CONNECT AND PROTECT

Industrial/Commercial Specifier's Guide

nVent

HOFFMAN

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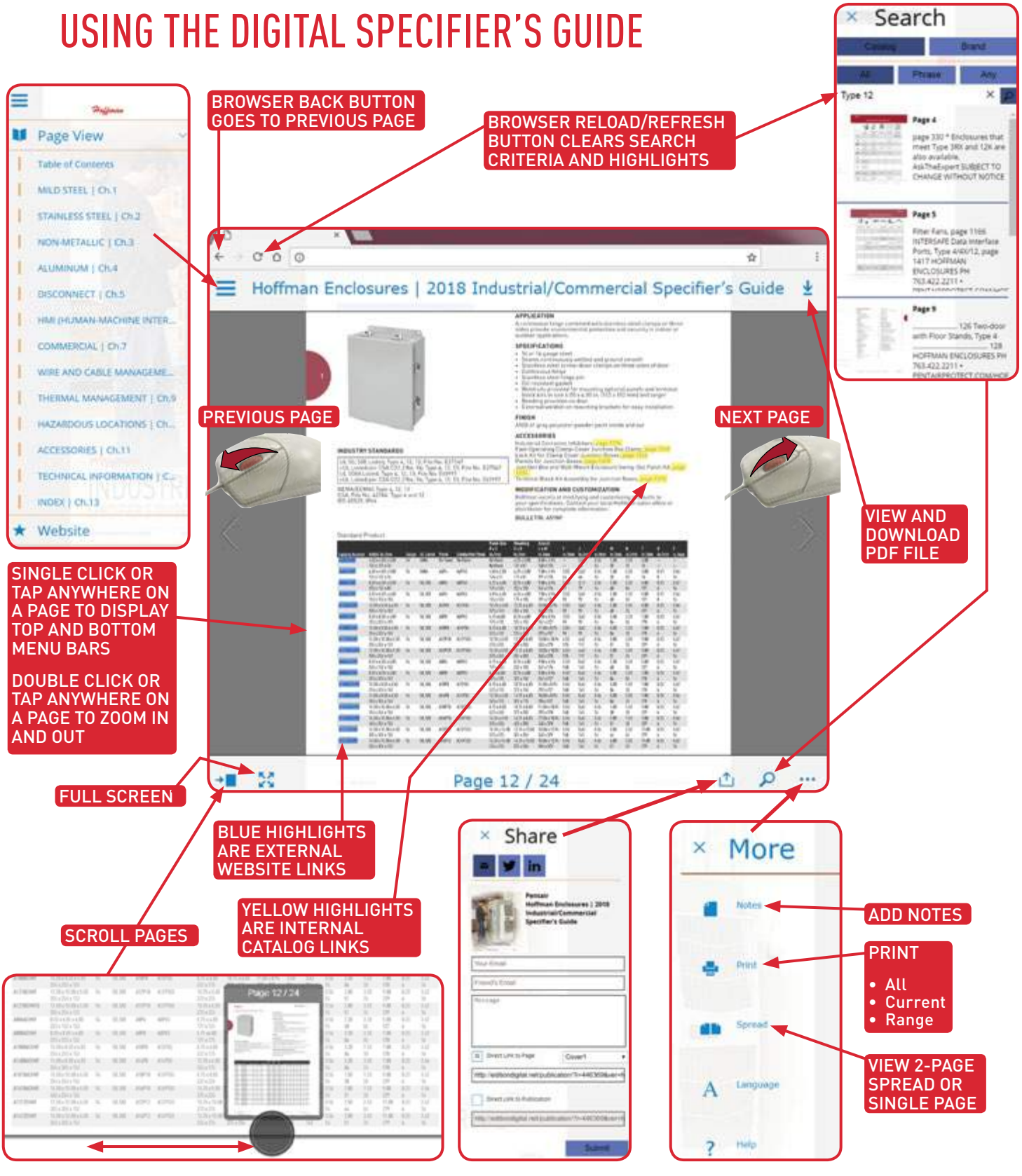
USING THE DIGITAL SPECIFIER'S GUIDE



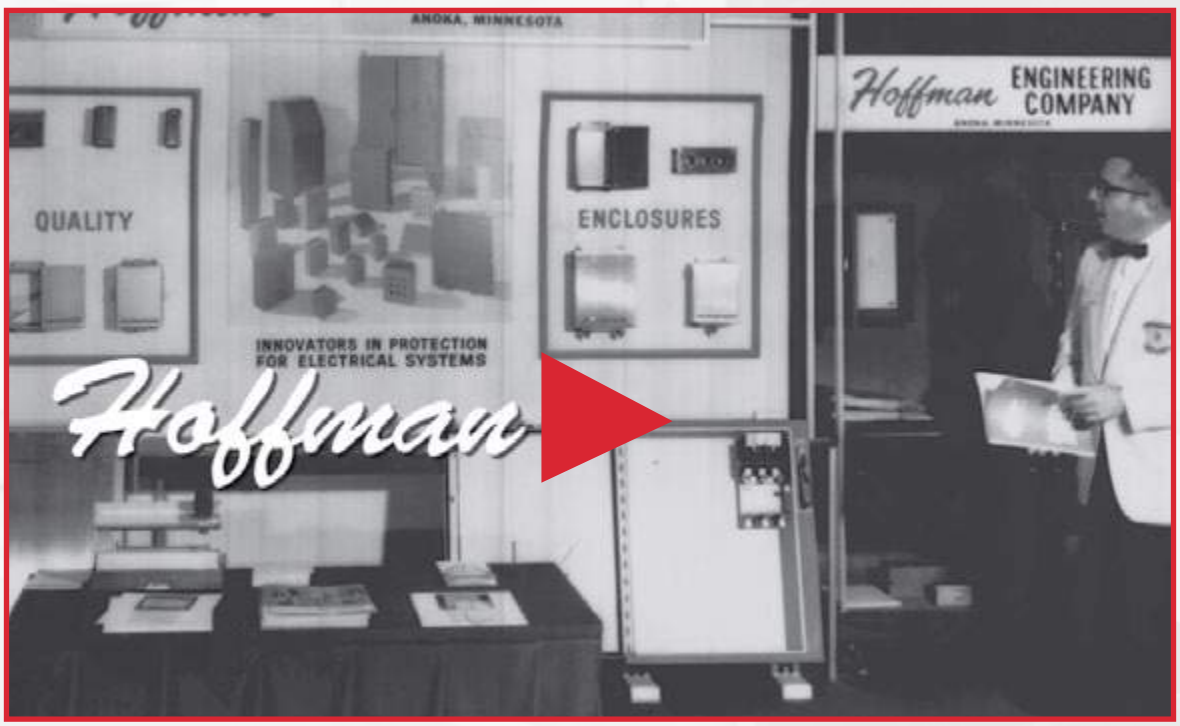
HOFFMAN PROVIDES EQUIPMENT PROTECTION SOLUTIONS

With more than 70 years of experience, extensive technical expertise, and a vast distribution network, Hoffman is recognized as an industry leader providing a broad range of standard, modified and custom enclosure solutions, serving customers worldwide.

Hoffman's vertical market strategy aligns subject matter experts in various industries with product managers, engineering and manufacturing resources. This alignment supports development of equipment protection products that meet particular industry needs.

WHY HOFFMAN?

- Built to global standards
- Global availability
- Commitment to quality
- Largest selection of standard products
- Modifications to meet your needs
- Custom fabrication
- Unparalleled service and expertise
- Comprehensive testing
- Application-specific solutions



LOOK BENEATH THE SURFACE. HOFFMAN MODIFIED AND CUSTOM ENCLOSURES.

If you think Hoffman just offers the largest selection of standard enclosures, you have not looked beneath the surface. With over 12,000 standard enclosures and accessories, Hoffman is renowned for our selection.

But Hoffman is also the only major enclosure manufacturer that offers a full selection of modifications including sizes, holes and cutouts, panel and door styles, internal barriers, hinges, mounting options, colors and paint finishes, hundreds of accessories and much more.

And for cabinets and enclosures that are even more complex, Hoffman has the most comprehensive custom enclosure engineering and fabrication capabilities in the industry.

OVER 12,000 STANDARD PRODUCTS

MILLIONS OF NON-STANDARD POSSIBILITIES

Specifying Enclosures

A number of factors should be considered when specifying the enclosure that will best perform in your application. The environment, application, thermal management requirements, enclosure performance standards, material and size all play a key role in the selection process.

On these pages, we highlight critical issues and questions that you should ask when selecting an enclosure.

ENVIRONMENT

Whatever your application—offshore, telecommunications, or dairy processing, environment is perhaps the most important factor to consider.

What is your primary environmental concern? Consider the most important potential threat in your environment. This will determine which enclosure offers the best protection.

What type of equipment are you protecting? Different types of equipment require different levels of protection

APPLICATION

When selecting an enclosure, application can be associated with market or product. For example, is your enclosure going to be used in a petrochemical refining plant, a food manufacturing system or a water treatment plant? Regarding product, does your application require a disconnect enclosure, pendant arm mounting, arc flash safety products or easy access? The requirements of your application must be taken into consideration.

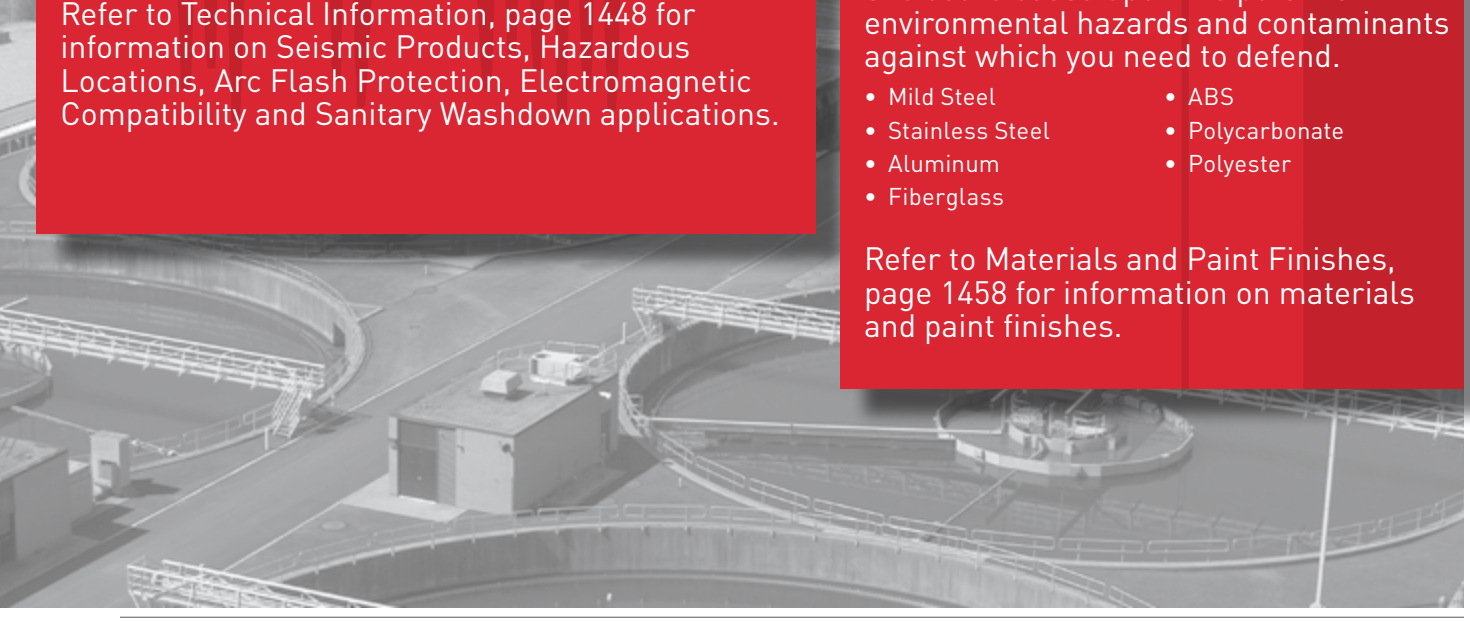
Refer to Technical Information, page 1448 for information on Seismic Products, Hazardous Locations, Arc Flash Protection, Electromagnetic Compatibility and Sanitary Washdown applications.

MATERIAL

Select the appropriate material for your enclosure based upon the potential environmental hazards and contaminants against which you need to defend.

- Mild Steel
- Stainless Steel
- Aluminum
- Fiberglass
- ABS
- Polycarbonate
- Polyester

Refer to Materials and Paint Finishes, page 1458 for information on materials and paint finishes.



SIZE

You'll need to consider several factors when specifying enclosure size.

What equipment will you enclose?

Where on the enclosure will equipment be installed?

Are you subpanel-mounting equipment?

Are you door-mounting controls?

Does your application have specific enclosure location requirements?

STANDARDS

Select an enclosure that has a rating appropriate for your environment and application. Rating systems from NEMA, UL, CSA, IEC and VDE determine an enclosure's ability to withstand environmental conditions. However, these ratings differ in important ways

Refer to Standards, page 1448 for information on Standards and Ratings.

THERMAL MANAGEMENT

Effective thermal management maximizes the efficiency and lifecycle of electrical components. While it is critical to dissipate and manage heat build-up, it can also be necessary to add heat.

Some key questions for determining the appropriate cooling unit for your application:

What size is my enclosure?

Which enclosure surfaces allow heat transfer?

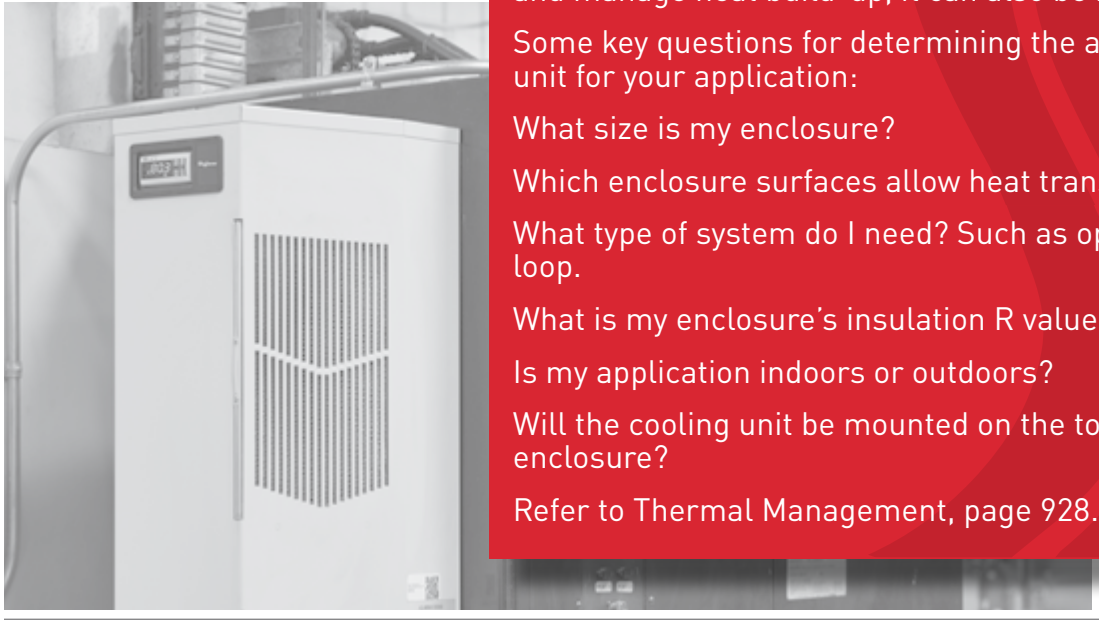
What type of system do I need? Such as open loop or closed loop.

What is my enclosure's insulation R value?

Is my application indoors or outdoors?

Will the cooling unit be mounted on the top, side or inside the enclosure?

Refer to Thermal Management, page 928.



Product Selection Quick Reference

TYPE	**Small Enclosures (up to 16 x 14) (406 x 356 mm)**	**Medium Enclosures (16 x 12 to 60 x 36) (406 x 305 to 1522 x 914 mm)**	**Large Enclosures (60 x 48 and larger) (1522 x 1219 mm)**	**Medium Disconnect Enclosures (16 x 16 to 60 x 36) (406 x 914 mm)**	**Large Disconnect Enclosures (60 x 48 and larger) (1522 x 1219 mm)**
1	Commercial, page 750	Commercial, page 750 Mild Steel, page 10			Free-Stand Disconnect Enclosure, Type 1, page 369 Internal Disconnect Shield, page 440
3	Non-Metallic, page 248 Commercial, page 750	Non-Metallic, page 248 Commercial, page 750	Non-Metallic, page 248	Disconnect, page 332 Fiberglass Disconnect, Type 4X, page 285	Disconnect, page 332
3R*	Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320	Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320	Stainless Steel, page 132 Non-Metallic, page 248	Fiberglass Disconnect, Type 4X, page 285 Disconnect, page 332	Disconnect, page 332
4	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320 Hazardous Locations, page 1250	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320 Hazardous Locations, page 1250	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248	Fiberglass Disconnect, Type 4X, page 285 Disconnect, page 332	Disconnect, page 332
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6	Non-Metallic, page 248				
7	SX7 Series Junction Boxes, page 1274 SX9 Series Screw Cover Junction Boxes, page 1276				
9	NEMA Type 9, page 1272 SX7 Series Junction Boxes, page 1274 SX9 Series Screw Cover Junction Boxes, page 1276				
12*	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320 Hazardous Locations, page 1250	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248 Aluminum, page 320 Hazardous Locations, page 1250	Mild Steel, page 10 Stainless Steel, page 132 Non-Metallic, page 248	Fiberglass Disconnect, Type 4X, page 285 Disconnect, page 332	Disconnect, page 332
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* Enclosures that meet Type 3RX and 12K are also available.

Product Selection Quick Reference

Modular Enclosure Solutions	**Human-Machine Interface**	**Consoles**	**Wire and Cable Management**	**Thermal Management**	**Arc Flash Safety Systems**
			Lay-In Wireway, page 838		
		CONCEPT Console, Type 4X, page 618	Fiberglass Feed-Through Type 12 and 3R Wireway, page 892 Wiring Trough, NEMA Type 3R, page 900	SPECTRACOOL Indoor/ Outdoor, page 950 T-SERIES Compact Outdoor, page 1046 Thermoelectric Coolers Indoor/Outdoor, page 1142	
	HMI Enclosures and Accessories, page 590 Mounting Options, page 640	CONCEPT Console, Type 4X, page 618		SPECTRACOOL Indoor/ Outdoor, page 950 PROAIR Harsh Environment, page 1088	INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419
	HMI Enclosures and Accessories, page 590 Mounting Options, page 640	CONCEPT Console, Type 4X, page 618	Stainless Steel Feed-Through NEMA Type 4X Wireway, page 888	SPECTRACOOL Indoor/ Outdoor, page 950	INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419
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THE AUTOMATED EDGE FOR CONTROL PANEL BUILDERS

Now that Hoffman and Steinhauer have joined forces, together they are reaching beyond the enclosure by offering customers automation solutions that deliver the highest levels of productivity, precision and flexibility.

MODCENTER

It's time to eliminate the traditionally time-consuming and costly manual methods of performing enclosure modifications and streamline the way you work. Automating labor-intensive modification tasks, using any of the Steinhauer solutions, enables you to:

- Increase productivity
- Improve quality
- Increase flexibility

PERSONAL WIRING ASSISTANT

The exact wire you need, when you need it.

NC-CUT

Automated trimming of cable duct and DIN rail, no errors and no waste.

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CHAPTER 1
MILD STEEL

CONCEPT ENCLOSURES

Hoffman's industry-leading wall-mount for machine control applications offers sleek and aesthetic protection. The CONCEPT portfolio includes extensive design options - single-door, window-door, flush-mount, two-door, sloped-top, and EMC models - along with the widest selection of sizes to meet any customer need.

JUNCTION BOXES

Hoffman offers a wide array of junction box designs, from hinged cover to lift-off cover styles. Hinged-cover models feature a continuous hinge with clamps for secure latching. Quarter-turn and quick-release latch options are also available when quick and easy access is needed. Lift-off cover models include screw cover and clamp cover options that deliver a secure seal.

PUSHBUTTONS

Designed for 30.5-mm or 22.5-mm pushbutton and switch, Hoffman offers a variety of designs to accommodate various needs, from simple e-stop applications to more complex HMI systems. Designs range from extra-deep models that allow installation of multiple contact blocks, sloped-front models that provide a slanted control surface, and extra-large models that provide up to 42 factory-stamped holes.

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CONTINUOUS HINGE WITH CLAMPS, TYPE 12

APPLICATION

This easy-to-open, continuous hinge enclosure features screw-down clamps for secure closure and can be used in a wide variety of applications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Continuous hinge
- Screw-down door clamps
- Bonding provision on door
- External welded-on mounting brackets for easy installation
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Clamp Kits, page 1371
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Lock Kit for Clamp Cover Junction Boxes, page 1366
Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
HOL-SEALERS Hole Seals, page 1374

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51CH

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA 22.2 No. 94; Type 12, 13; File No. E27567
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA 22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12 and 13
CSA, File No. 42184: Type 12
IEC 60529, IP65

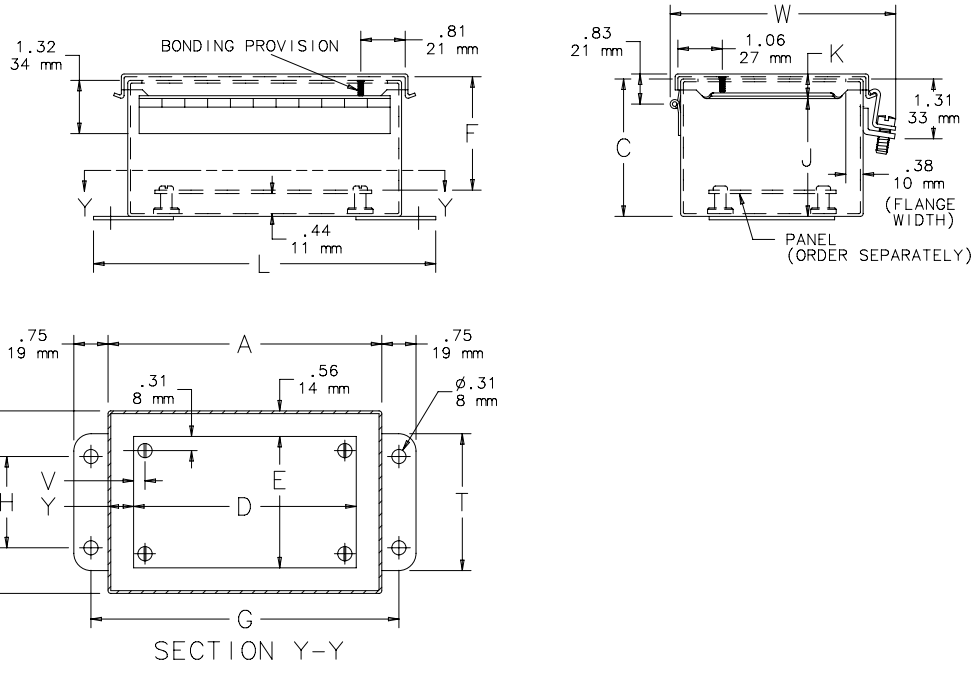
Standard Product

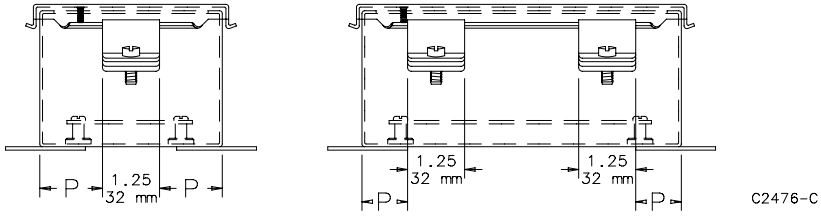
Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	P in./mm	T in./mm	V in./mm	Y in./mm
A404CH	4.00 x 4.00 x 3.00 102 x 102 x 76	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.94 140 x 125	— —	2.62 66	0.54 14	1.38 35	3.00 76	— —	— —
A604CH	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	2.53 64	2.62 66	0.54 14	2.38 60	3.00 76	0.31 8	0.56 14
A806CH	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.03 77	3.12 79	0.56 14	2.38 60	5.00 127	0.25 6	0.62 16
A8063CHS	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.03 77	3.12 79	0.56 14	2.38 60	5.00 127	0.25 6	0.62 16
A4044CH	4.00 x 4.00 x 4.00 102 x 102 x 102	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.94 140 x 125	— —	3.62 92	0.54 14	1.38 35	3.00 76	— —	— —
A6044CH	6.00 x 4.00 x 4.00 152 x 102 x 102	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	3.53 90	3.62 92	0.54 14	2.38 60	3.00 76	0.31 8	0.56 14
A606CH	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 73	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.53 90	3.62 92	0.54 14	2.38 60	5.00 127	0.31 8	0.56 14
A808CH	8.00 x 8.00 x 4.00 203 x 203 x 102	14	50, 50E	A8P8	A8P8G	6.75 x 6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.94 241 x 227	3.53 90	3.62 92	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16
A12064CH	12.00 x 6.00 x 4.00 305 x 152 x 102	14	50, 50E	A12P6	A12P6G	10.75 x 4.88 273 x 124	12.75 x 4.00 324 x 102	13.50 x 6.94 343 x 176	3.53 90	3.62 92	0.56 14	1.00 25	5.00 127	0.25 6	0.62 16
A1008CH	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.53 90	3.62 92	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16
A1008CHS	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.53 90	3.62 92	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16
A1210CH	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	4.53 115	4.62 117	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A1210CHS	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	4.53 115	4.62 117	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A8066CH	8.00 x 6.00 x 6.00 203 x 152 x 152	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	5.53 140	5.62 143	0.56 14	1.00 25	5.00 127	0.25 6	0.62 16
A8086CH	8.00 x 8.00 x 6.00 203 x 203 x 152	14	50, 50E	A8P8	A8P8G	6.75 x6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.94 241 x 227	5.53 140	5.62 143	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16
A10086CH	10.00 x 8.00 x 6.00 254 x 203 x 152	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	5.53 140	5.62 143	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16
A14086CH	14.00 x 8.00 x 6.00 356 x 203 x 152	14	50, 50E	A14P8	A14P8G	12.75 x 6.88 324 x 175	14.75 x 6.00 375 x 152	15.50 x 8.94 394 x 227	5.53 140	5.62 143	0.56 14	1.00 25	7.00 178	0.25 6	0.62 16

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	P in./mm	T in./mm	V in./mm	Y in./mm
A10106CH	10.00 x 10.00 x 6.00 254 x 254 x 152	14	50, 50E	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.94 292 x 278	5.53 140	5.62 143	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A16106CH	16.00 x 10.00 x 6.00 406 x 254 x 152	14	50, 50E	A16P10	A16P10G	14.75 x 8.88 375 x 226	16.75 x 8.00 425 x 203	17.50 x 10.94 445 x 278	5.53 140	5.62 143	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A1212CH	12.00 x 12.00 x 6.00 305 x 305 x 152	14	50, 50E	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.94 343 x 329	5.53 140	5.62 143	0.56 14	1.00 25	11.00 279	0.25 6	0.62 16
A1412CH	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.53 140	5.62 143	0.56 14	1.00 25	11.00 279	0.25 6	0.62 16
A1412CHS	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.53 140	5.62 143	0.56 14	1.00 25	11.00 279	0.25 6	0.62 16
A1614CH	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	1.00 25	13.00 330	0.25 6	0.62 16
A1614CHS	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	1.00 25	13.00 330	0.25 6	0.62 16
A10108CH	10.00 x 10.00 x 8.00 254 x 254 x 203	14	50, 50E	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.94 292 x 278	5.53 140	5.62 143	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A12108CH	12.00 x 10.00 x 8.00 305 x 254 x 203	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	7.53 191	7.62 194	0.56 14	1.00 25	9.00 229	0.25 6	0.62 16
A14128CH	14.00 x 12.00 x 8.00 356 x 305 x 203	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	7.53 191	7.62 194	0.56 14	1.00 25	11.00 279	0.25 6	0.62 16
A16148CH	16.00 x 14.00 x 8.00 406 x 356 x 203	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	7.53 191	7.62 194	0.56 14	1.00 25	13.00 330	0.25 6	0.62 16
A161410CH	16.00 x 14.00 x 10.00 406 x 356 x 254	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	9.53 242	9.62 244	0.56 14	1.00 25	13.00 330	0.25 6	0.62 16

Catalog numbers ending in "S" are hinged on short side.

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.





View showing clamp end of box when one clamp is used.

View showing clamp end of box when two clamps are used. When A=8.00 (203mm) or more, use two clamps.

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CONTINUOUS HINGE WITH CLAMPS, TYPE 4

APPLICATION

A continuous hinge combined with stainless steel clamps on three sides provide environmental protection and security in indoor or outdoor applications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Stainless steel screw-down clamps on three sides of door
- Continuous hinge
- Stainless steel hinge pin
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger
- Bonding provision on door
- External welded-on mounting brackets for easy installation

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Lock Kit for Clamp Cover Junction Boxes, page 1366
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51NF

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 4, 12, 13; File No. E27567
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27567
UL 508A Listed; Type 4, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997

NEMA/EEMAC Type 4, 12, 13
CSA, File No. 42184: Type 4 and 12
IEC 60529, IP66

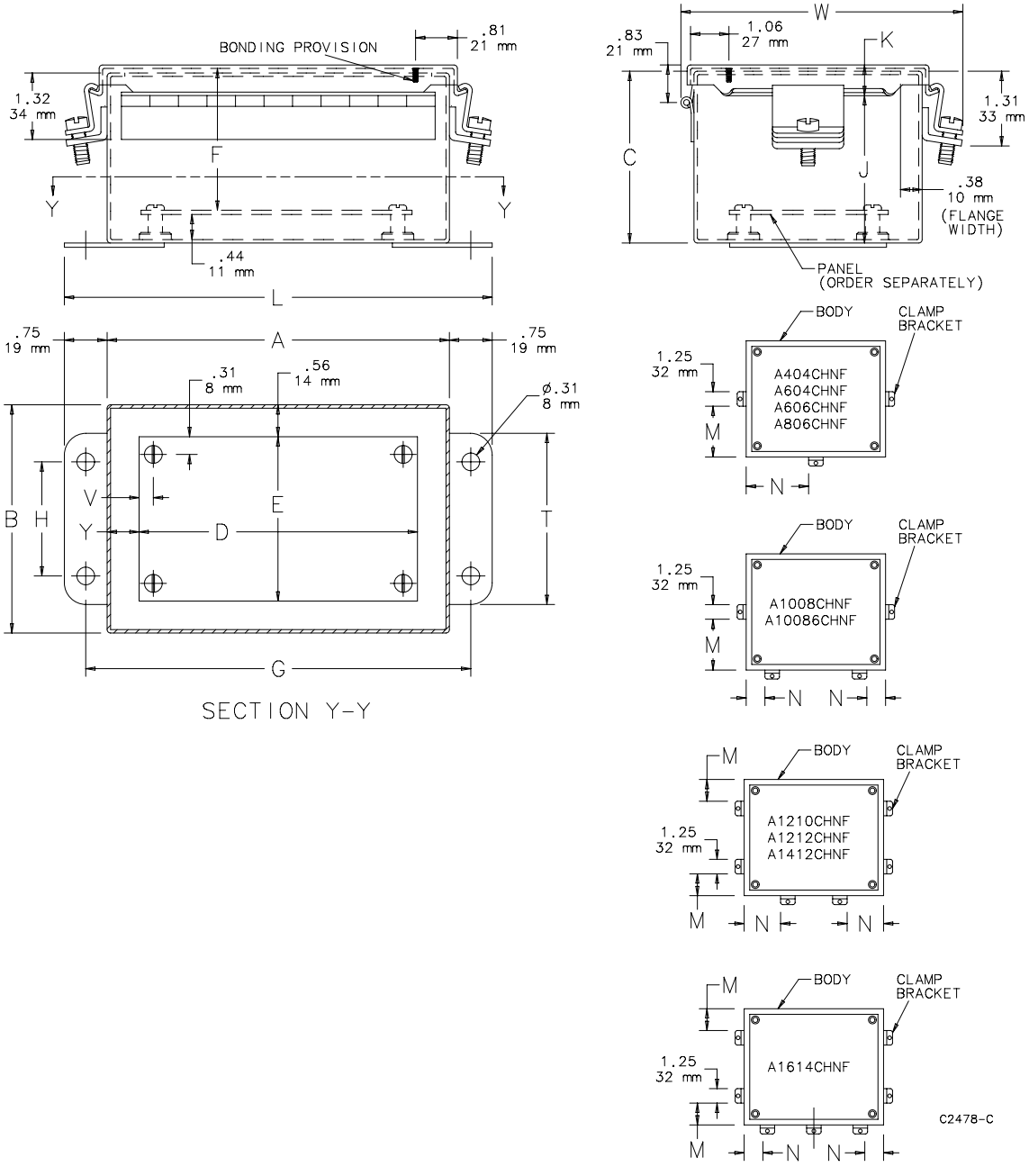
Standard Product

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	M in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A404CHNF	4.00 x 4.00 x 3.00 102 x 102 x 76	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.94 140 x 125	— —	2.62 66	0.54 14	1.38 35	1.38 35	3.00 76	— —	— —
A604CHNF	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	2.53 64	2.62 66	0.54 14	1.38 35	2.38 60	3.00 76	0.31 8	0.56 14
A806CHNF	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.03 77	3.12 79	0.56 14	2.38 60	3.38 86	5.00 127	0.25 6	0.62 16
A606CHNF	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.53 90	3.62 92	0.54 14	2.38 60	2.38` 60	5.00 127	0.31 8	0.56 14
A1264CHNF	12.00 x 6.00 x 4.00 305 x 152 x 102	14	50, 50E	A12P6	A12P6G	10.75 x 4.88 273 x 124	12.75 x 4.00 324 x 102	13.50 x 6.94 343 x 176	3.53 90	3.62 92	0.56 14	2.38 60	3.00 76	5.00 127	0.25 6	0.56 14
A808CHNF	8.00 x 8.00 x 4.00 203 x 203 x 102	14	50, 50E	A8P8	A8P8G	6.75 x6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.94 241 x 227	3.53 90	3.62 92	0.56 14	3.38 86	3.38 86	7.00 178	0.25 6	0.62 16
A1008CHNF	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.53 90	3.62 92	0.56 14	3.38 86	1.50 38	7.00 178	0.25 6	0.62 16
A1210CHNF	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	4.53 115	4.62 117	0.56 14	2.00 51	3.00 76	9.00 229	0.25 6	0.62 16
A1210CHNFS	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	4.53 115	4.62 117	0.56 14	2.00 51	3.00 76	9.00 229	0.25 6	0.62 16
A8066CHNF	8.00 x 6.00 x 6.00 203 x 152 x 152	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	5.53 140	5.62 143	0.56 14	2.38 60	3.38 86	5.00 127	0.25 6	0.62 16
A8086CHNF	8.00 x 8.00 x 6.00 203 x 203 x 152	14	50, 50E	A8P8	A8P8G	6.75 x6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.94 241 x 227	5.53 140	5.62 143	0.56 14	3.38 86	3.38 86	7.00 178	0.25 6	0.62 16
A10086CHNF	10.00 x 8.00 x 6.00 254 x 203 x 152	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	5.53 140	5.62 143	0.56 14	3.38 86	1.50 38	7.00 178	0.25 6	0.62 16
A14086CHNF	14.00 x 8.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P8	A14P8G	12.75 x 6.88 324 x 175	14.75 x 6.00 375 x 175	15.50 x 8.94 394 x 227	5.53 140	5.62 143	0.56 14	3.38 86	3.00 76	7.00 178	0.25 6	0.56 14
A10106CHNF	10.00 x 10.00 x 6.00 254 x 254 x 152	14	50, 50E	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.94 292 x 278	5.53 140	5.62 143	0.56 14	1.50 38	1.50 38	9.00 229	0.25 6	0.62 16
A16106CHNF	16.00 x 10.00 x 6.00 406 x 254 x 152	14	50, 50E	A16P10	A16P10G	14.75 x 8.88 375 x 226	16.75 x 8.00 425 x 203	17.50 x 10.94 445 x 278	5.53 140	5.62 143	0.56 14	2.00 51	1.50 38	9.00 229	0.25 6	0.56 14
A1212CHNF	12.00 x 12.00 x 6.00 305 x 305 x 152	14	50, 50E	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.94 343 x 329	5.53 140	5.62 143	0.56 14	2.50 64	2.50 64	11.00 279	0.25 6	0.62 16
A1412CHNF	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.53 140	5.62 143	0.56 14	2.00 51	3.00 76	11.00 279	0.25 6	0.62 16

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	M in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A1412CHNFS	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.53 140	5.62 143	0.56 14	2.00 51	3.00 76	11.00 279	0.25 6	0.62 16
A1614CHNF	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	3.50 89	1.50 38	13.00 330	0.25 6	0.62 16
A1614CHNFS	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	3.50 89	1.50 38	13.00 330	0.25 6	0.62 16
A12108CHNF	12.00 x 10.00 x 8.00 305 x 254 x 203	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	4.53 115	4.62 117	0.56 14	2.00 51	3.00 76	9.00 229	0.25 6	0.62 16
A14128CHNF	14.00 x 12.00 x 8.00 356 x 305 x 203	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.53 140	5.62 143	0.56 14	2.00 51	3.00 76	11.00 279	0.25 6	0.62 16
A16148CHNF	16.00 x 14.00 x 8.00 406 x 356 x 203	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	3.50 89	1.50 38	13.00 330	0.25 6	0.62 16
A161410CHNF	16.00 x 14.00 x 10.00 406 x 356 x 254	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.53 140	5.62 143	0.56 14	3.50 89	1.50 38	13.00 330	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.

Catalog numbers ending in "S" are hinged on short side.



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CONTINUOUS HINGE WITH CLAMPS, EMC, TYPE 12

APPLICATION

This enclosure is used in indoor applications to contain stray electromagnetic interference (EMI) signals produced by internal components and to shield those components from external EMI/RFI interference.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Continuous hinge
- Bonding provision on door
- Combination woven steel mesh and oil-resistant gasket
- Stainless steel screw-down door clamps
- Weldnuts provided for mounting optional panels and terminal kits in size 6.00 x 4.00 in. (152 x 102mm) and larger
- Shielding effectiveness greater than 80 dB at 1 GHz

FINISH

Plated finish provides conductive surfaces for gasket contact areas and conduit entries.

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E27567
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12,13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA, File No. 42184: Type 12, 13
IEC 60529, IP54

ACCESSORIES

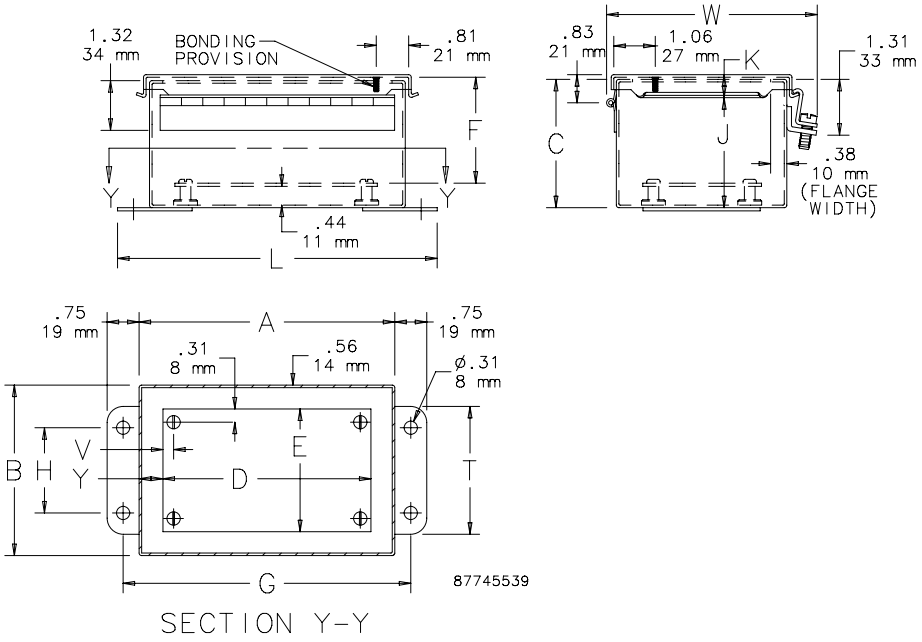
Panels for Junction Boxes, page 1330
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380

BULLETIN: A53

Standard Product

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm
A604CHEMC	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.81 191 x 122	2.53 64	2.62 66	0.54 14	3.00 76	0.31 8	0.56 14
A806CHEMC	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.51 x 6.81 241 x 173	3.03 77	3.12 79	0.56 14	5.00 127	0.25 6	0.62 16
A606CHEMC	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.81 191 x 173	3.53 90	3.62 92	0.54 14	5.00 127	0.31 8	0.56 14
A1008CHEMC	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.81 292 x 224	3.53 90	3.62 92	0.56 14	7.00 178	0.25 6	0.62 16
A1210CHEMC	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.81 343 x 275	4.53 115	4.62 117	0.56 14	9.00 229	0.25 6	0.62 16
A1412CHEMC	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.81 394 x 325	5.53 140	5.62 143	0.56 14	11.00 279	0.25 6	0.62 16
A1614CHEMC	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.81 445 x 376	5.53 140	5.62 143	0.56 14	13.00 330	0.25 6	0.62 16

Purchase panels separately.


1.32
34 mm
BONDING
PROVISION
.81
21 mm
F
Y
Y
.44
11 mm
L
.83
21 mm
W
1.06
27 mm
K
1.31
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C
J
.38
10 mm
(FLANGE
WIDTH)
.75
19 mm
A
.75
19 mm
.31
8 mm
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8 mm
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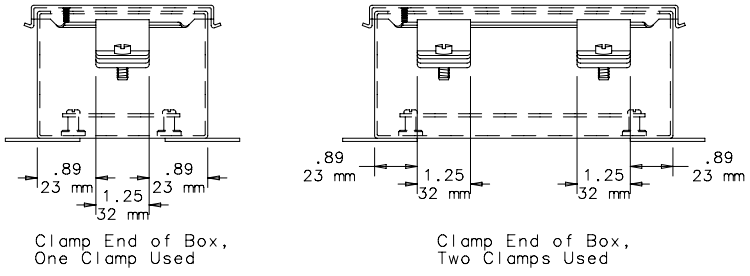
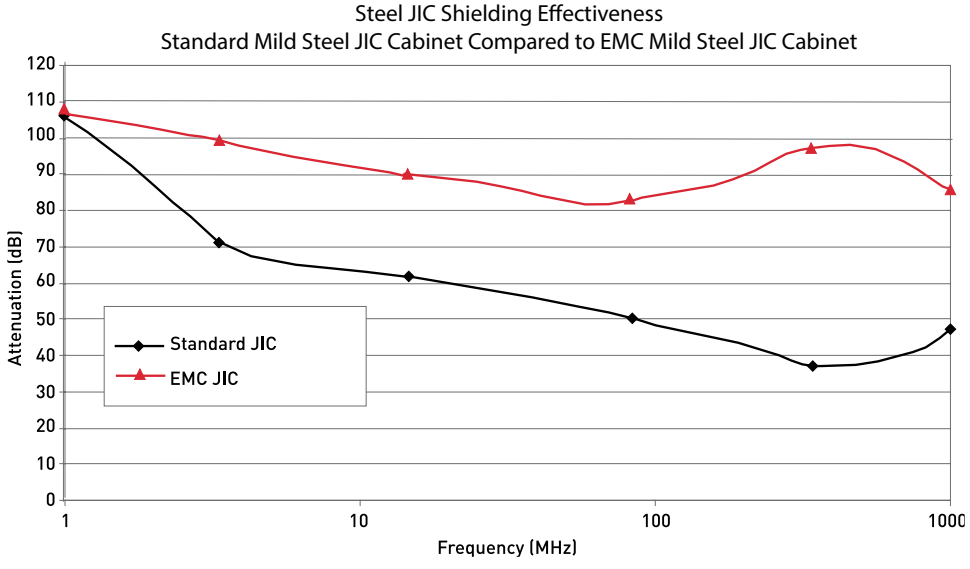
SECTION Y-Y


.89
23 mm
.89
23 mm
1.25
32 mm
Clamp End of Box,
One Clamp Used
.89
23 mm
1.25
32 mm
1.25
32 mm
.89
23 mm
Clamp End of Box,
Two Clamps Used


Steel JIC Shielding Effectiveness
Standard Mild Steel JIC Cabinet Compared to EMC Mild Steel JIC Cabinet
Attenuation (dB)
120
110
100
90
80
70
60
50
40
30
20
10
0
1
10
100
1000
Frequency (MHz)
Standard JIC
EMC JIC

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CONTINUOUS HINGE WITH QUARTER-TURN LATCH, TYPE 4

APPLICATION

This enclosure provides the convenience of quarter-turn latching with an aesthetic, easy-to-maintain light gray textured finish.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Continuous hinge
- Bonding provision on door
- External welded-on mounting brackets for easy installation
- Oil-resistant gasket
- Quarter-turn slotted latches
- Seamless foam-in-place gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger

FINISH

RAL 7035 gray polyester powder paint inside and out.

ACCESSORIES

Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51FL

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94 Listed; Type 4, 12; File No. E61997

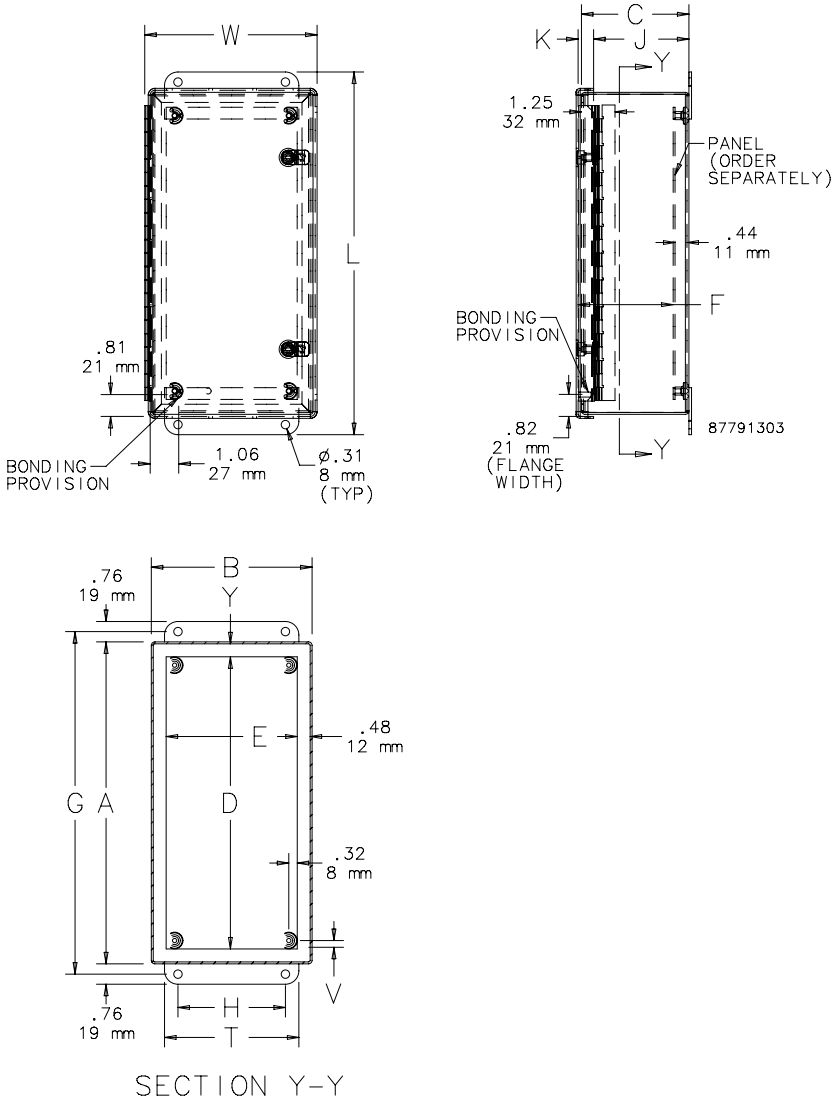
NEMA/EEMAC Type 4 and 12
IEC 60529, IP 66

Standard Product

Catalog Number	AxBxC in./mm	Gauge	Panel	Conductive Panel	Panel Size in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm	No. of Latches
A404CHFL	4.00 x 4.00 x 3.00 102 x 102 x 76	16	No Panel	No Panel	— —	4.75 x 2.00 121 x 51	5.50 x 4.41 140 x 112	— —	2.62 66	0.54 14	3.00 76	— —	— —	1
A604CHFL	6.00 x 4.00 x 3.00 152 x 102 x 76	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.41 191 x 112	2.53 64	2.62 66	0.54 14	3.00 76	0.31 8	0.56 14	1
A806CHFL	8.00 x 6.00 x 3.50 203 x 152 x 89	14	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.41 241 x 163	3.03 77	3.12 79	0.56 14	5.00 127	0.25 6	0.62 16	2
A4044CHFL	4.00 x 4.00 x 4.00 102 x 102 x 102	16	No Panel	No Panel	— —	4.75 x 2.00 121 x 51	5.50 x 4.41 140 x 112	— —	3.62 92	0.54 14	3.00 76	— —	— —	1
A6044CHFL	6.00 x 4.00 x 4.00 152 x 102 x 102	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.41 191 x 112	3.53 90	3.62 92	0.54 14	3.00 76	0.31 8	0.56 14	1
A606CHFL	6.00 x 6.00 x 4.00 152 x 152 x 102	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.41 191 x 163	3.53 90	3.62 92	0.54 14	5.00 127	0.31 8	0.56 14	1
A808CHFL	8.00 x 8.00 x 4.00 203 x 203 x 102	14	A8P8	A8P8G	6.75 x 6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.41 241 x 214	3.53 90	3.62 92	0.56 14	7.00 178	0.25 6	0.62 16	2
A1008CHFL	10.00 x 8.00 x 4.00 254 x 203 x 102	14	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.41 292 x 214	3.53 90	3.62 92	0.56 14	7.00 178	0.25 6	0.62 16	2
A12064CHFL	12.00 x 6.00 x 4.00 305 x 152 x 102	14	A12P6	A12P6G	10.75 x 4.88 273 x 124	12.75 x 4.00 324 x 102	13.50 x 6.41 343 x 163	3.53 90	3.62 92	0.56 14	5.00 127	0.25 6	0.62 16	2
A1210CHFL	12.00 x 10.00 x 5.00 305 x 254 x 127	14	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.41 343 x 264	4.53 115	4.62 117	0.56 14	9.00 229	0.25 6	0.62 16	2
A8066CHFL	8.00 x 6.00 x 6.00 203 x 152 x 152	14	A8P6	A8P6G	6.75 x 4.88 171x 124	8.75 x 4.00 222 x 102	9.50 x 6.41 241 x 163	5.53 140	5.62 143	0.56 14	5.00 127	0.25 6	0.62 16	2
A10086CHFL	10.00 x 8.00 x 6.00 254 x 203 x 152	14	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.41 292 x 214	5.53 140	5.62 (143) 143	0.56 14	7.00 178	0.25 6	0.62 16	2
A10106CHFL	10.00 x 10.00 x 6.00 254 x 254 x 152	14	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.41 292 x 264	5.53 140	5.62 (143) 143	0.56 14	9.00 229	0.25 6	0.62 16	2
A1212CHFL	12.00 x 12.00 x 6.00 305 x 305 x 152	14	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.41 343 x 314	5.53 140	5.62 (143) 143	0.56 14	11.00 279	0.25 6	0.62 16	2
A14086CHFL	14.00 x 8.00 x 6.00 356 x 203 x 152	14	A14P8	A14P8G	12.75 x 6.88 324 x 175	14.75 x 6.00 375 x 152	15.50 x 8.41 394 x 214	5.53 140	5.62 (143) 143	0.56 14	7.00 178	0.25 6	0.62 16	2
A1412CHFL	14.00 x 12.00 x 6.00 356 x 305 x 152	14	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.41 394 x 314	5.53 140	5.62 (143) 143	0.56 14	11.00 279	0.25 6	0.62 16	2
A16106CHFL	16.00 x 10.00 x 6.00 406 x 254 x 152	14	A16P10	A16P10G	14.75 x 8.88 375 x 226	16.75 x 8.00 425 x 203	17.50 x 10.41 445 x 264	5.53 140	5.62 (143) 143	0.56 14	9.00 229	0.25 6	0.62 16	2

Catalog Number	AxBxC in./mm	Gauge	Panel	Conductive Panel	Panel Size in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm	No. of Latches
A1614CHFL	16.00 x 14.00 x 6.00 406 x 356 x 152	14	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.41 445 x 366	5.53 140	5.62 (143) 143	0.56 14	13.00 330	0.25 6	0.62 16	2
A12108CHFL	12.00 x 10.00 x 8.00 305 x 254 x 203	14	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.41 343 x 264	7.53 191	7.62 194	0.56 14	9.00 229	0.25 6	0.62 16	2
A14128CHFL	14.00 x 12.00 x 8.00 356 x 305 x 203	14	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.41 394 x 314	7.53 191	7.62 194	0.56 14	11.00 279	0.25 6	0.62 16	2
A16148CHFL	16.00 x 14.00 x 8.00 406 x 356 x 203	14	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.41 445 x 366	7.53 191	7.62 104	0.56 14	13.00 330	0.25 6	0.62 16	2
A161410CHFL	16.00 x 14.00 x 10.00 406 x 356 x 254	14	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.41 445 x 366	9.53 242	9.62 244	0.56 14	13.00 330	0.25 6	0.62 16	2

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



nVent | HOFFMAN

CONTINUOUS HINGE WITH QUICK-RELEASE LATCH, TYPE 12

APPLICATION

A continuous hinge door with quick-release flip latches provides convenient access to enclosed components in a wide variety of applications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Continuous hinge
- Bonding provision on door
- Quick-release latches
- External welded-on mounting brackets for easy installation
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51

INDUSTRY STANDARDS

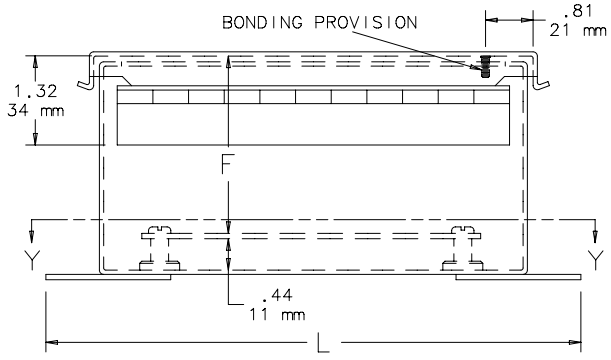
UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E27567
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

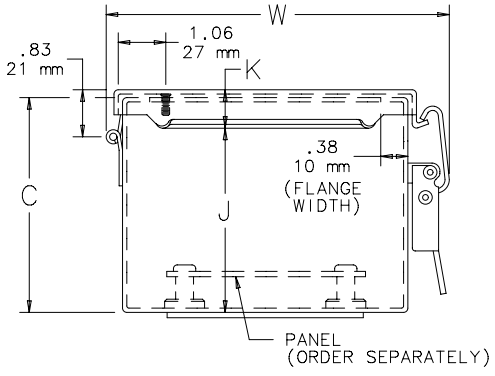
NEMA Type 12 and 13
IEC 60529, IP65

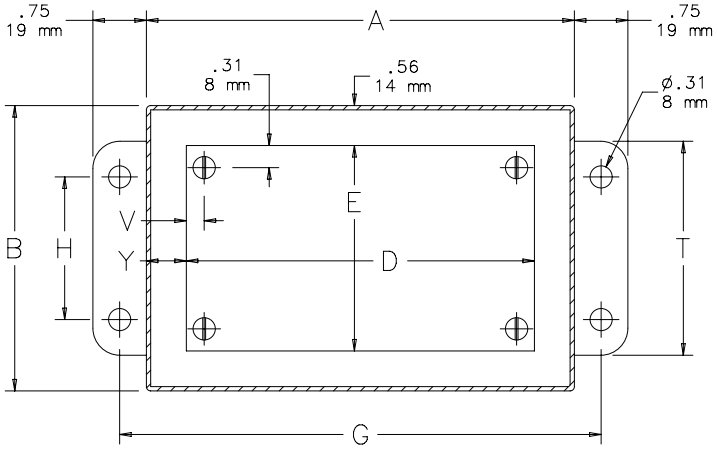
Standard Product

Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm
A604CHQR	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.81 191 x 122	2.53 64	2.62 66	0.54 14	3.00 76	0.31 8	0.56 14
A806CHQR	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.51 x 6.81 241 x 173	3.03 77	3.12 79	0.56 14	5.00 127	0.25 6	0.62 16
A606CHQR	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.81 191 x 173	3.53 90	3.62 92	0.54 14	5.00 127	0.31 8	0.56 14
A1008CHQR	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.81 292 x 224	3.53 90	3.62 92	0.56 14	7.00 178	0.25 6	0.62 16
A1210CHQR	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.81 343 x 275	4.53 115	4.62 117	0.56 14	9.00 229	0.25 6	0.62 16
A1412CHQR	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.81 394 x 325	5.53 140	5.62 143	0.56 14	11.00 279	0.25 6	0.62 16
A1614CHQR	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.81 445 x 376	5.53 140	5.62 143	0.56 14	13.00 330	0.25 6	0.62 16

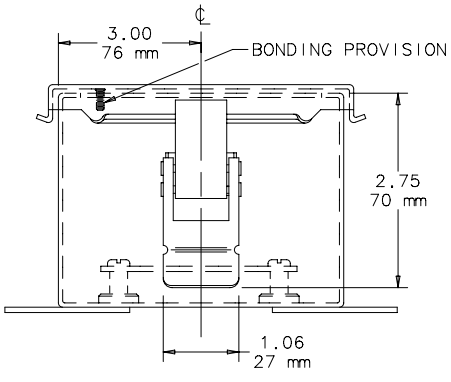
Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



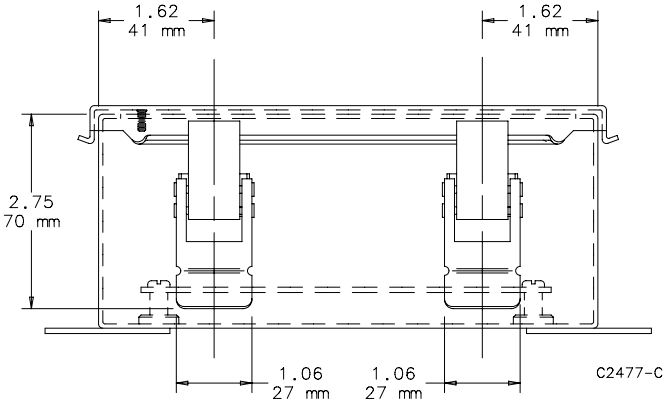




SECTION Y–Y



A≤8.00 (203mm)



A≥8.00 (203mm)

CONTINUOUS HINGE WITH FLANGE TROUGH COLLAR, TYPE 12

APPLICATION

Used in automotive and other applications that require an outward formed external flange trough collar to keep out liquids and contaminants. These enclosures feature tool-to-open latches for securing cover.

SPECIFICATIONS

- 16 gauge body, 16 or 14 gauge door
- External formed body flange channels away liquids
- Continuous hinge
- Bonding provision on door
- Heavy-duty, tool-to-open, plated latches
- Oil-resistant gasket
- External welded-on mounting brackets for easy installation
- Weldnuts provided for mounting optional panels and terminal block kits
- Seams continuously welded and ground smooth

FINISH

ANSI 61 gray polyester powder paint inside and out

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E27567
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA, File No. 42184, Type 12, 13
IEC 60529, IP65

ACCESSORIES

Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

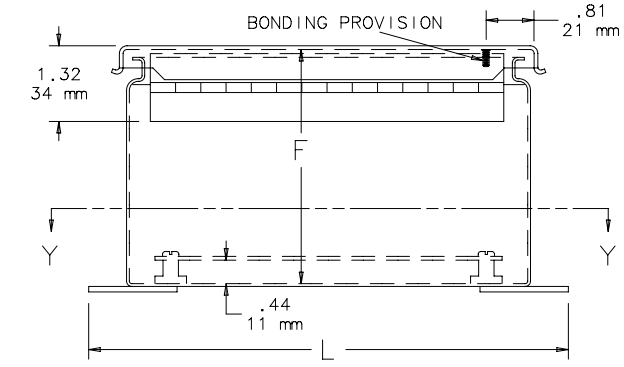
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

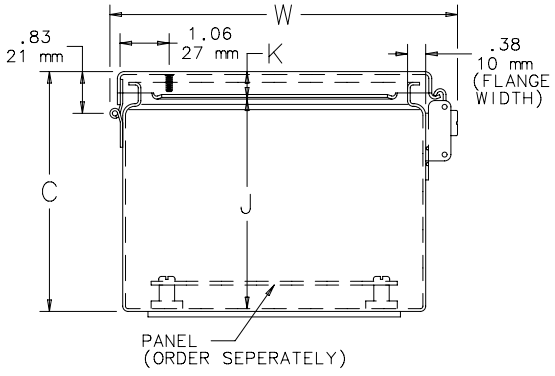
BULLETIN: A51

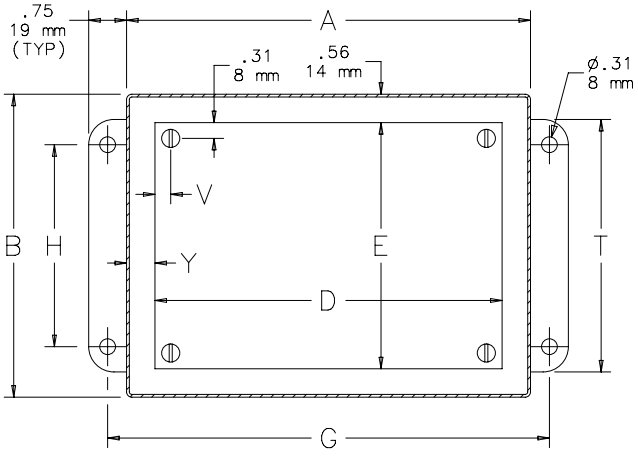
Standard Product

Catalog Number	AxBxC in./mm	Panel	UL Listed	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm
A604CHFTC	6.00 x 4.00 x 4.75 152 x 102 x 121	A6P4	508A	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.88 190 x 124	4.10 104	4.21 107	0.54 14	3.00 76	0.31 8	0.56 14
A606CHFTC	6.00 x 6.00 x 4.75 152 x 152 x 121	A6P6	50, 50E	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.88 190 x 175	4.10 104	4.21 107	0.54 14	5.00 127	0.31 8	0.56 14
A806CHFTC	8.00 x 6.00 x 4.75 203 x 152 x 121	A8P6	50, 50E	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.51 x 6.88 242 x 175	4.10 104	4.21 107	0.56 14	5.00 127	0.25 6	0.56 14
A1008CHFTC	10.00 x 8.00 x 4.75 254 x 203 x 121	A10P8	50, 50E	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.88 292 x 226	4.10 104	4.21 107	0.56 14	7.00 178	0.25 6	0.56 14
A1210CHFTC	12.00 x 10.00 x 5.75 305 x 254 x 146	A12P10	50, 50E	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.88 343 x 276	5.10 130	5.21 132	0.56 14	9.00 229	0.25 6	0.87 22
A1412CHFTC	14.00 x 12.00 x 6.75 356 x 305 x 171	A14P12	50, 50E	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.88 394 x 327	6.10 155	6.21 158	0.56 14	11.00 279	0.25 6	0.87 22
A1614CHFTC	16.00 x 14.00 x 6.75 406 x 356 x 171	A16P14	50, 50E	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.88 444 x 378	6.10 155	6.21 158	0.56 14	13.00 330	0.25 6	0.87 22

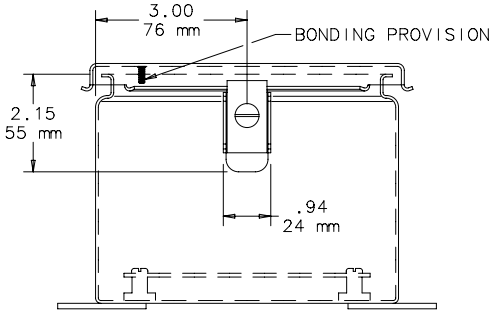
Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



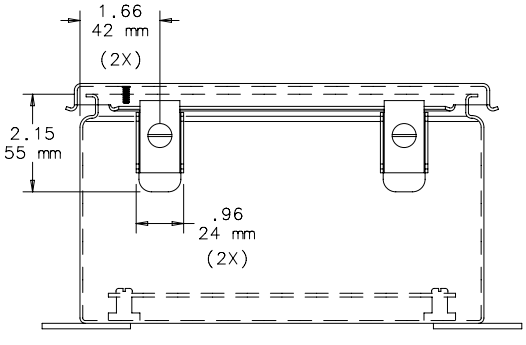




SECTION Y-Y



A≤8.00 (203mm)



A≥8.00 (203mm)

C2808-C

SCREW COVER, TYPE 12

APPLICATION

Ideal for a broad range of applications, this enclosure's screw cover is secured in each corner for a positive seal but easily removed for modifications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Bonding provision on cover
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger
- External welded-on mounting brackets for easy installation

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51SC

INDUSTRY STANDARDS

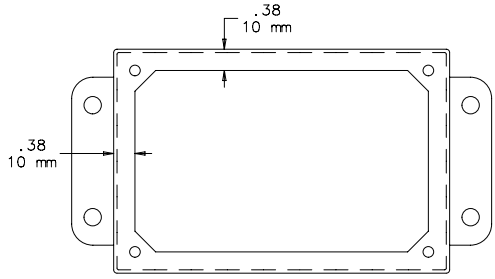
UL 50, 50E Listed; Type 12, 13; File No. E27525
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E27525
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC: Type 12 and 13
CSA, File No. 42184: Type 12
IEC 60529, IP65

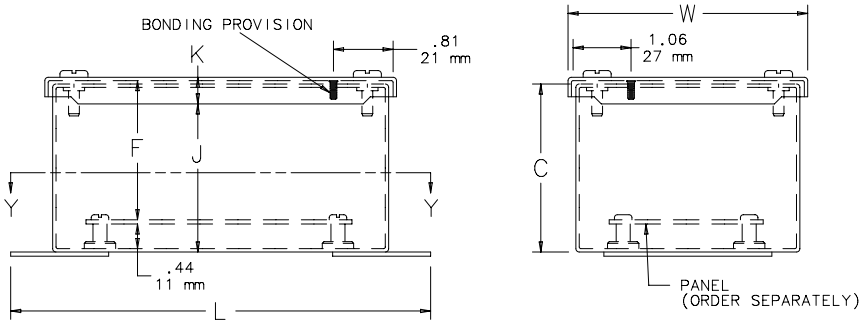
Standard Product

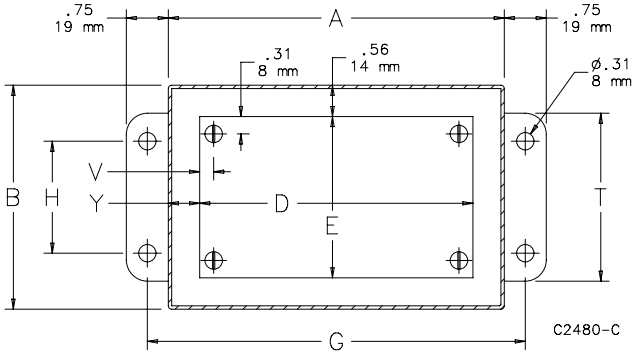
Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	T in./mm	V in./mm	Y in./mm
A404SC	4.00 x 4.00 x 3.00 102 x 102 x 76	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.23 140 x 107	— —	2.50 64	0.66 17	3.00 76	— —	— —
A604SC	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.23 191 x 107	2.53 64	2.50 64	0.66 17	3.00 76	0.31 8	0.56 14
A806SC	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.28 241 x 160	3.03 77	3.01 76	0.67 17	5.00 127	0.25 6	0.62 16
A4044SC	4.00 x 4.00 x 4.00 102 x 102 x 102	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.23 140 x 107	— —	3.50 89	0.66 17	3.00 76	— —	— —
A6044SC	6.00 x 4.00 x 4.00 152 x 102 x 102	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.23 191 x 107	3.53 90	3.50 89	0.66 17	3.00 76	0.31 8	0.56 14
A606SC	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.28 191 x 160	3.53 90	3.50 89	0.66 17	5.00 127	0.31 8	0.56 14
A808SC	8.00 x 8.00 x 4.00 203 x 203 x 102	14	50, 50E	A8P8	A8P8G	6.75 x 6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.28 241 x 210	3.53 90	3.51 89	0.67 17	7.00 178	0.25 6	0.62 16
A1008SC	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.28 292 x 210	3.53 90	3.51 89	0.67 17	7.00 178	0.25 6	0.62 16
A1010SC	10.00 x 10.00 x 4.00 254 x 254 x 102	14	50, 50E	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.28 292 x 261	3.53 90	3.51 89	0.67 17	9.00 229	0.25 6	0.62 16
A1210SC	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.28 343 x 261	4.53 115	4.51 115	0.67 17	9.00 229	0.25 6	0.62 16
A8066SC	8.00 x 6.00 x 6.00 203 x 152 x 152	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.28 241 x 160	5.53 140	5.51 140	0.67 17	5.00 127	0.25 6	0.62 16
A10086SC	10.00 x 8.00 x 6.00 254 x 203 x 152	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.28 292 x 210	5.53 140	5.51 140	0.67 17	7.00 178	0.25 6	0.62 16
A10106SC	10.00 x 10.00 x 6.00 254 x 254 x 152	14	50, 50E	A10P10	A10P10G	8.75 x 8.88 222 x 226	10.75 x 8.00 273 x 203	11.50 x 10.28 292 x 261	5.53 140	5.51 140	0.67 17	9.00 229	0.25 6	0.62 16
A1212SC	12.00 x 12.00 x 6.00 305 x 305 x 152	14	50, 50E	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.28 343 x 312	5.53 140	5.51 140	0.67 17	11.00 279	0.25 6	0.62 16
A1412SC	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.28 394 x 312	5.53 140	5.51 140	0.67 17	11.00 279	0.25 6	0.62 16
A1614SC	16.00 x 14.00 x 6.00 406 x 356 x 152	14	UL 50	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.28 445 x 363	5.53 140	5.51 140	0.67 17	13.00 330	0.25 6	0.62 16
A14128SC	14.00 x 12.00 x 8.00 356 x 305 x 203	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.28 394 x 312	5.53 140	5.51 140	0.67 17	11.00 279	0.25 6	0.62 16
A121010SC	12.00 x 10.00 x 10.00 305 x 254 x 254	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.28 343 x 261	4.53 115	4.51 115	0.67 17	9.00 229	0.25 6	0.62 16
A161410SC	16.00 x 14.00 x 10.00 406 x 356 x 254	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.28 445 x 363	5.53 140	5.51 140	0.67 17	13.00 330	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



TOP VIEW WITH COVER REMOVED





SECTION Y-Y

nVent | HOFFMAN

CLAMP COVER, TYPE 4

APPLICATION

Clamps on all four sides securely close this enclosure to protect components in indoor or outdoor applications, yet are easy to remove for access and modifications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Stainless steel screw-down clamps on four sides of door
- Bonding provision on cover
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger
- External welded-on mounting brackets for easy installation

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51NF

INDUSTRY STANDARDS

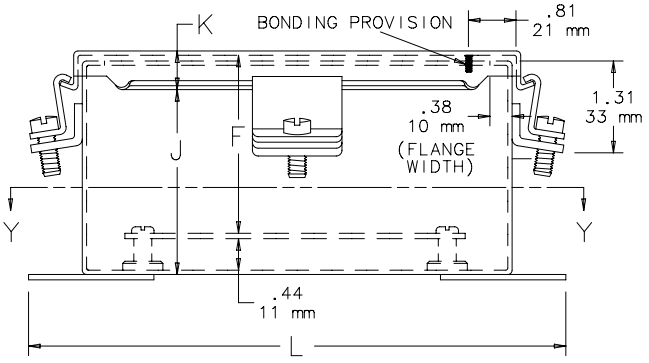
UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
UL 508A Listed; Type 4, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997

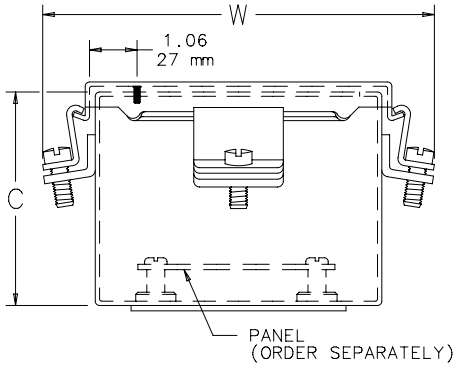
NEMA/EEMAC Type 4, 12, 13
CSA, File No. 42184: Type 4, 12
IEC 60529, IP66

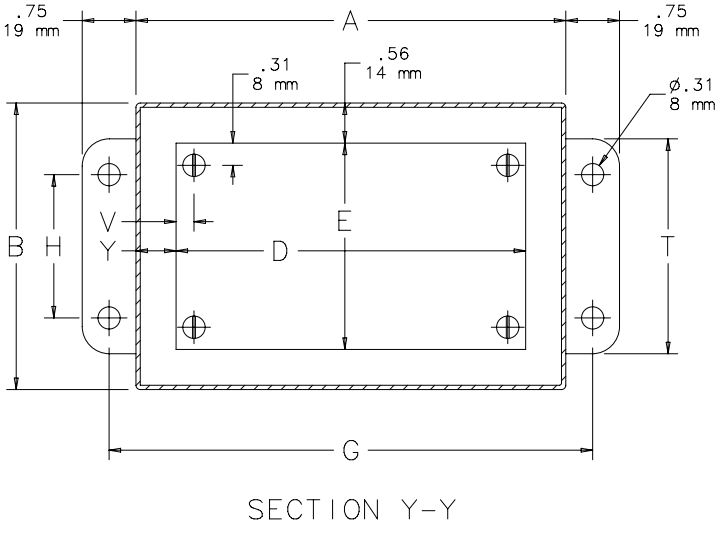
Standard Product

Catalog Number	AxBxC in./mm	UL Listed	Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	M in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A404NF	4.00 x 4.00 x 3.00 102 x 102 x 76	508A	16	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 5.38 140 x 137	— —	2.62 66	0.54 14	1.38 35	1.38 35	3.00 76	— —	— —
A604NF	6.00 x 4.00 x 3.00 152 x 102 x 76	508A	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 5.38 191 x 137	2.53 64	2.62 66	0.54 14	1.38 35	2.38 60	3.00 76	0.31 8	0.56 14
A806NF	8.00 x 6.00 x 3.50 203 x 152 x 89	50, 50E	14	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 7.38 241 x 187	3.03 77	3.12 79	0.56 14	2.38 60	3.38 86	5.00 127	0.25 6	0.62 16
A606NF	6.00 x 6.00 x 4.00 152 x 152 x 102	50, 50E	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 7.38 191 x 187	3.53 90	3.62 92	0.54 14	2.38 60	2.38 60	5.00 127	0.31 8	0.56 14
A1008NF	10.00 x 8.00 x 4.00 254 x 203 x 102	50, 50E	14	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 9.38 292 x 238	3.53 90	3.62 92	0.56 14	3.38 86	1.50 38	7.00 178	0.25 6	0.62 16
A1210NF	12.00 x 10.00 x 5.00 305 x 254 x 127	50, 50E	14	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 11.38 343 x 289	4.53 115	4.62 117	0.56 14	2.00 51	3.00 76	9.00 229	0.25 6	0.62 16
A1412NF	14.00 x 12.00 x 6.00 356 x 305 x 152	50, 50E	14	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 13.38 394 x 340	5.53 140	5.62 143	0.56 14	2.00 51	3.00 76	11.00 279	0.25 6	0.62 16
A1614NF	16.00 x 14.00 x 6.00 406 x 356 x 152	50, 50E	14	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 15.38 445 x 391	5.53 140	5.62 143	0.56 14	3.50 89	1.50 38	13.00 330	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.

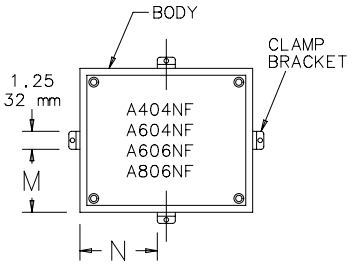


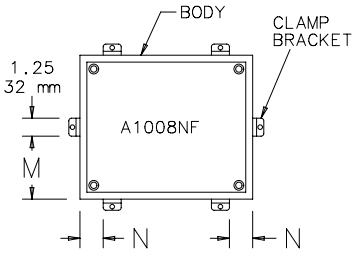


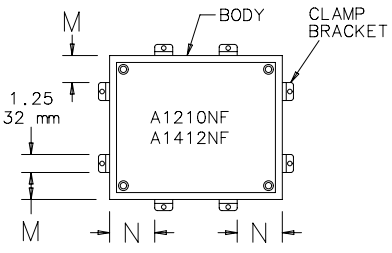


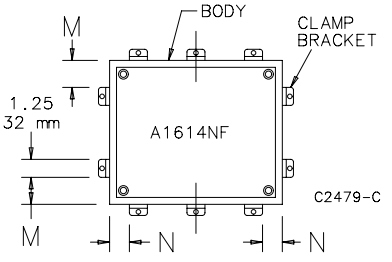
SECTION Y–Y

Clamp Bracket Locations









nVent | HOFFMAN

LIFT-OFF CLAMP COVER, TYPE 12

APPLICATION

With a chain-secured, lift-off clamp cover, this enclosure meets basic functionality requirements for housing controls and instrumentation.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Screw-down clamps
- Lift-off cover
- Bonding provision on cover
- Chain holds cover to box when cover is removed
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger
- External welded-on mounting brackets for easy installation

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Clamp Kits, page 1371
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51LP

INDUSTRY STANDARDS

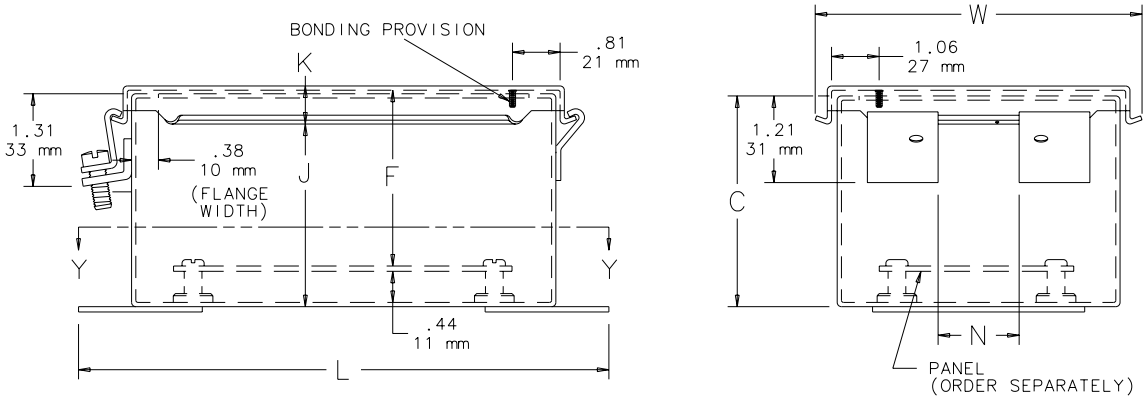
UL 50, 50E Listed; Type 12, 13; File No. E27525
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E27525
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

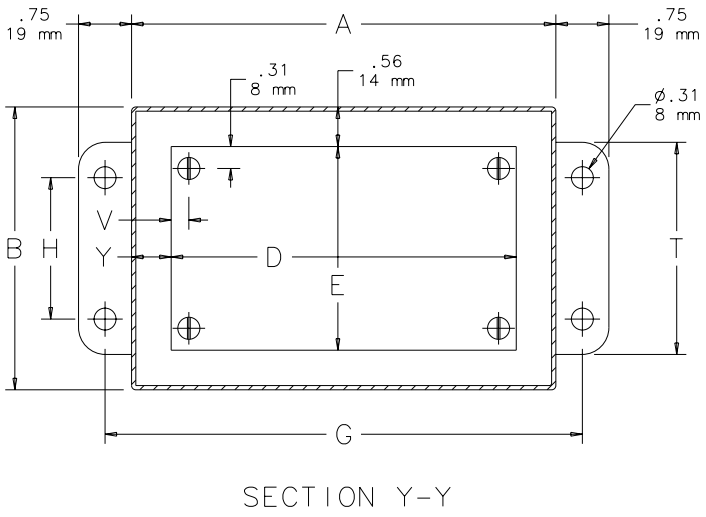
NEMA/EEMAC Type 12 and 13
CSA, File No. 42184: Type 12
IEC 60529, IP65

Standard Product

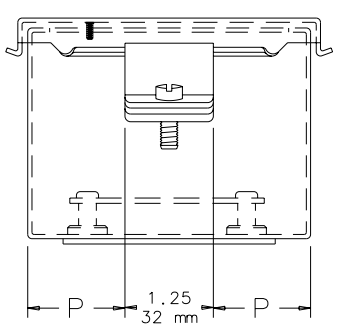
Catalog Number	AxBxC in./mm	Gauge	UL Listed	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	N in./mm	P in./mm	T in./mm	V in./mm	Y in./mm
A404LP	4.00 x 4.00 x 3.00 102 x 102 x 76	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.57 140 x 116	— —	2.62 66	0.54 14	1.31 33	1.38 35	3.00 76	— —	— —
A604LP	6.00 x 4.00 x 3.00 152 x 102 x 76	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.57 191 x 116	2.53 64	2.62 66	0.54 14	1.31 33	1.38 35	3.00 76	0.31 8	0.56 14
A806LP	8.00 x 6.00 x 3.50 203 x 152 x 89	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.64 241 x 169	3.03 76	3.12 74	0.56 14	2.88 73	2.38 60	5.00 127	0.25 6	0.62 16
A4044LP	4.00 x 4.00 x 4.00 102 x 102 x 102	16	508A	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 4.57 140 x 116	— —	3.62 92	0.54 14	1.31 33	1.38 35	3.00 76	— —	— —
A6044LP	6.00 x 4.00 x 4.00 152 x 102 x 102	16	508A	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.57 191 x 116	3.53 90	3.62 92	0.54 14	1.31 33	1.38 35	3.00 76	0.31 (8) 8	0.56 14
A606LP	6.00 x 6.00 x 4.00 152 x 152 x 102	16	50, 50E	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.57 191 x 167	3.53 90	3.62 92	0.54 14	2.88 73	2.38 60	5.00 127	0.31 (8) 8	0.56 14
A808LP	8.00 x 8.00 x 4.00 203 x 203 x 102	14	50, 50E	A8P8	A8P8G	6.75 x6.88 171 x 175	8.75 x 6.00 222 x 152	9.50 x 8.94 241 x 227	3.53 90	3.62 92	0.56 14	4.00 102	1.00 25	7.00 178	0.25 6	0.62 16
A1008LP	10.00 x 8.00 x 4.00 254 x 203 x 102	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.57 292 x 218	3.53 90	3.62 92	0.56 14	4.00 102	1.00 25	7.00 178	0.25 (6) 6	0.62 16
A1210LP	12.00 x 10.00 x 5.00 305 x 254 x 127	14	50, 50E	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.75 x 8.00 324 x 203	13.50 x 10.64 343 x 270	4.53 115	4.62 117	0.56 14	6.00 152	1.00 25	9.00 229	0.25 (6) 6	0.62 16
A8066LP	8.00 x 6.00 x 6.00 203 x 152 x 152	14	50, 50E	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.64 241 x 169	3.03 76	3.12 74	0.56 14	2.88 73	2.38 60	5.00 127	0.25 6	0.62 16
A10086LP	10.00 x 8.00 x 6.00 254 x 203 x 152	14	50, 50E	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.57 292 x 218	3.53 90	3.62 92	0.56 14	4.00 102	1.00 25	7.00 178	0.25 (6) 6	0.62 16
A12126LP	12.00 x 12.00 x 6.00 305 x 305 x 152	14	50, 50E	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.28 343 x 312	5.53 140	5.51 140	0.56 14	8.00 203	1.00 25	11.00 279	0.25 6	0.62 16
A1412LP	14.00 x 12.00 x 6.00 356 x 305 x 152	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.64 394 x 321	5.53 140	5.62 143	0.56 14	8.00 203	1.00 25	11.00 279	0.25 (6) 6	0.62 16
A1614LP	16.00 x 14.00 x 6.00 406 x 356 x 152	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.64 445 x 372	5.53 140	5.62 143	0.56 14	10.00 254	1.00 25	13.00 330	0.25 (6) 6	0.62 16
A14128LP	14.00 x 12.00 x 8.00 356 x 305 x 203	14	50, 50E	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.64 394 x 321	5.53 140	5.62 143	0.56 14	8.00 203	1.00 25	11.00 279	0.25 (6) 6	0.62 16
A161410LP	16.00 x 14.00 x 10.00 406 x 356 x 254	14	50, 50E	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.64 445 x 372	5.53 140	5.62 143	0.56 14	10.00 254	1.00 25	13.00 330	0.25 (6) 6	0.62 16

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.

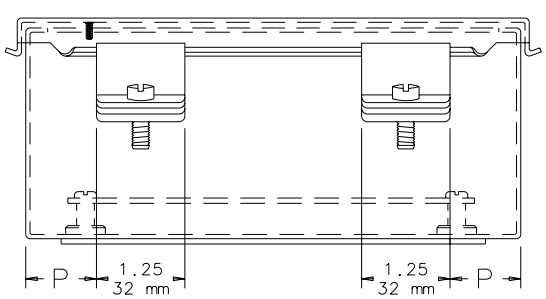




SECTION Y-Y



B < 8.00 (203mm)



B ≥ 8.00 (203mm)

C2481-C

nVent | HOFFMAN

FLAT AND DOME SCREW COVER, CONTOURED, TYPE 4

APPLICATION

Made out of drawn steel, this screw cover junction box offers rounded corners and smooth construction while meeting the water submersion rating. It can be used for a broad range of electrical and terminal wiring applications that do not require a back panel and is available in flat and dome cover models for mounting flexibility.

SPECIFICATIONS

- Drawn 16 gauge steel
- No welded seams or sharp corners
- Cover screws
- Formed flanged cover
- Oil-resistant gasket
- External welded-on mounting brackets for easy installation
- Bonding provision on cover
- Grounding stud on body

FINISH

ANSI 61 gray polyester powder paint inside and out

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51DR

INDUSTRY STANDARDS

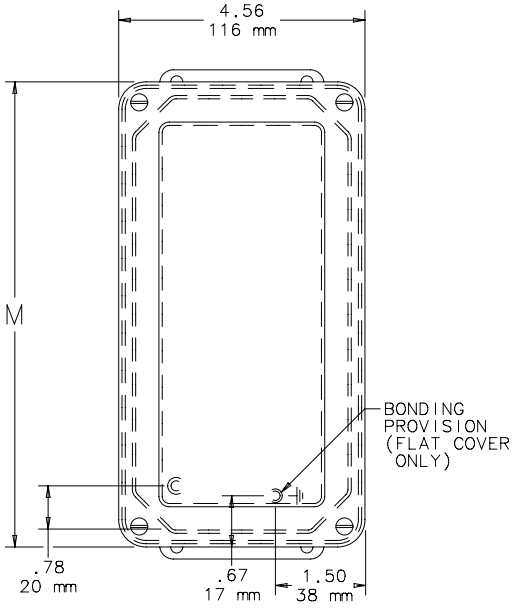
UL 508A Listed; Type 4, 6, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 6, 12, 13; File No. E61997

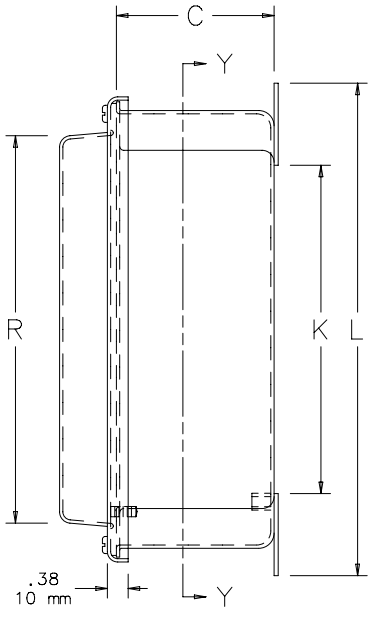
NEMA Type 4, 6, 12, and 13
CSA, File No. 42186: Type 4, 12, and 13
IEC 60529, IP67

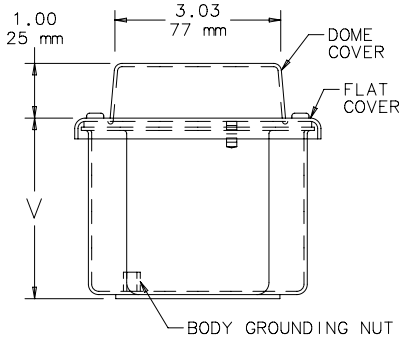
Standard Product

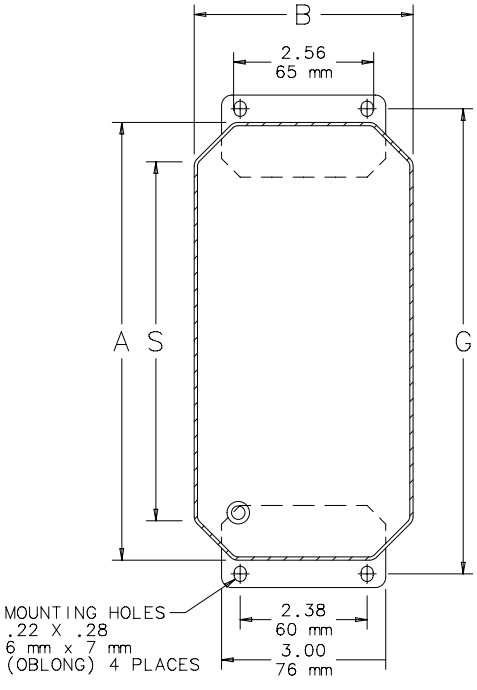
Catalog Number	AxBxC in./mm	Interior Volume (in.³)	Mounting G in./mm	Cover Type	K in./mm	L in./mm	M in./mm	R in./mm	S in./mm	V in./mm
A443DSC	3.50 x 4.00 x 2.75 89 x 102 x 70	32.6	4.00 102	Flat	1.50 38	4.50 114	4.06 103	— —	2.06 52	2.98 76
A643DSC	5.75 x 4.00 x 2.75 146 x 102 x 70	55.9	6.25 159	Flat	3.75 95	6.75 171	6.31 160	— —	4.31 109	2.98 76
A843DSC	8.00 x 4.00 x 2.75 203 x 102 x 70	79.4	8.50 216	Flat	6.00 152	9.00 229	8.56 217	— —	6.56 167	2.98 76
A1043DSC	10.25 x 4.00 x 2.75 260 x 102 x 70	102.8	10.75 273	Flat	8.25 210	11.25 286	10.81 275	— —	8.81 224	2.98 76
A445DSC	3.50 x 4.00 x 4.75 89 x 102 x 121	44.7	4.00 102	Dome	1.50 38	4.50 114	4.06 103	2.53 64	2.06 52	3.98 101
A645DSC	5.75 x 4.00 x 4.75 146 x 102 x 121	76.9	6.25 159	Dome	3.75 95	6.75 171	6.31 160	4.78 121	4.31 109	3.98 101
A845DSC	8.00 x 4.00 x 4.75 203 x 102 x 121	109.1	8.50 216	Dome	6.00 152	9.00 229	8.56 217	7.03 179	6.56 167	3.98 101
A1045DSC	10.25 x 4.00 x 4.75 260 x 102 x 121	141.2	10.75 273	Dome	8.25 210	11.25 286	10.81 275	9.25 235	8.81 224	3.98 101

Domed-cover enclosure depth = V + 1 in. (25 mm)









SECTION Y-Y

C2473-C

nVent | HOFFMAN

SCREW COVER, CONTOURED, TYPE 4

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 6, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 6, 12, 13; File No. E61997

NEMA Type 4, 6, 12, 13
CSA, File No. 42186: Type 4, 12, 13
IEC 60529, IP67

APPLICATION

Made out of drawn steel, this screw cover junction box offers rounded corners and smooth construction while meeting the water submersion rating. It can be used for a broad range of electrical and terminal wiring applications that do not require a back panel.

SPECIFICATIONS

- Drawn 16 gauge steel
- No welded seams or sharp corners
- Formed flanged cover
- Cover screws
- Oil-resistant gasket
- External wall-mounting brackets
- Bonding provision on cover
- Grounding stud on body

FINISH

ANSI 61 gray polyester powder paint inside and out

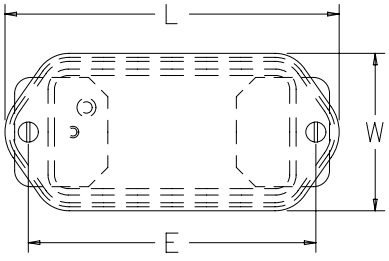
MODIFICATION AND CUSTOMIZATION

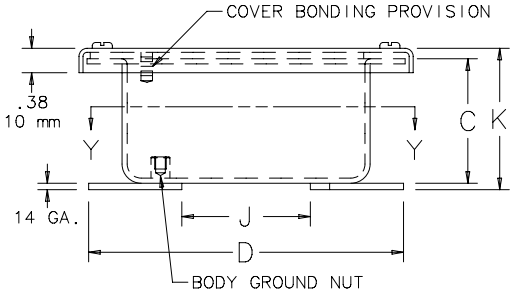
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

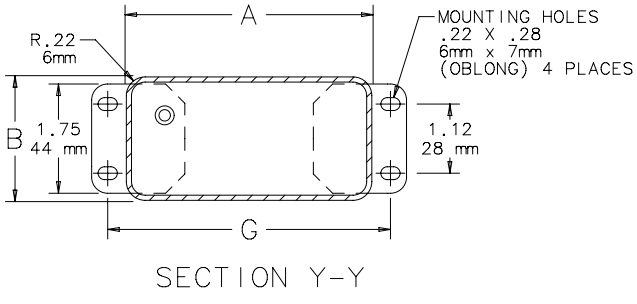
BULLETIN: A51DR

Standard Product

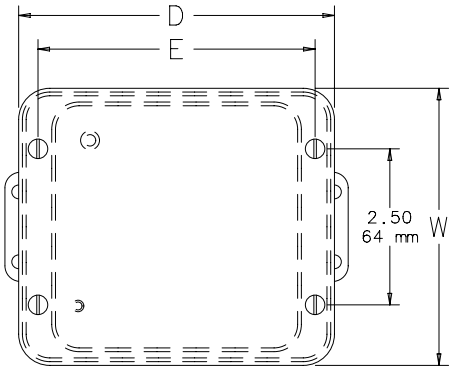
Catalog Number	AxBxC in./mm	Interior Volume (in.³)	Mounting G in./mm	Overall L x W in./mm	D in./mm	E in./mm	J in./mm	K in./mm
A402DSC	4.00 x 2.00 x 2.00 102 x 51 x 51	13.9	4.50 114	5.06 x 2.44 129 x 62	5.00 127	4.44 113	2.00 51	2.24 57
A403DSC	4.50 x 2.88 x 2.62 114 x 73 x 67	30.7	5.00 127	5.56 x 3.31 141 x 84	5.50 140	4.94 125	2.50 64	2.86 73
A404DSC	4.00 x 4.00 x 2.62 102 x 102 x 37	38.2	5.00 127	5.50 x 4.44 140 x 113	5.06 129	4.44 113	2.50 64	2.86 73

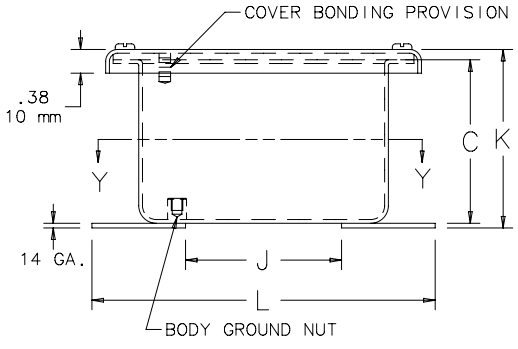


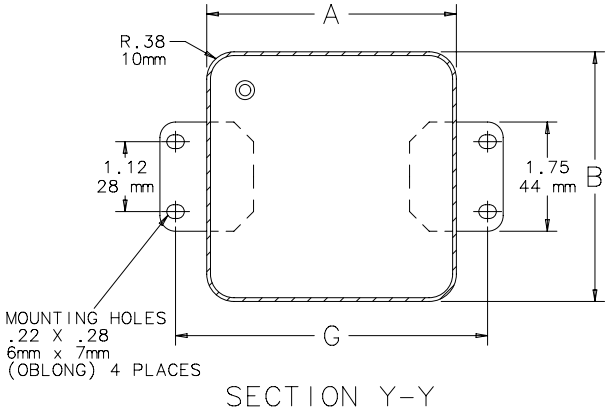




SECTION Y-Y







SECTION Y-Y

C2472-C

REMOVABLE HINGE WITH QUARTER-TURN LATCH, CONTOURED, TYPE 12

APPLICATION

Made out of drawn steel, this hinged cover junction box offers rounded corners and smooth construction. It can be used in applications where a panel for mounting of controls is desired and protection of equipment from indoor contaminants is required.

SPECIFICATIONS

- Drawn 16 gauge steel
- No welded seams or sharp corners
- Removable door with unique lift-off hinges
- Oil-tight quarter-turn slotted latches
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels
- Bonding provision on door

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Junction Boxes, page 1330
Handle Kit, page 35
Mounting-Bracket Kits, page 35
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
IEC 60529, IP55

MODIFICATION AND CUSTOMIZATION

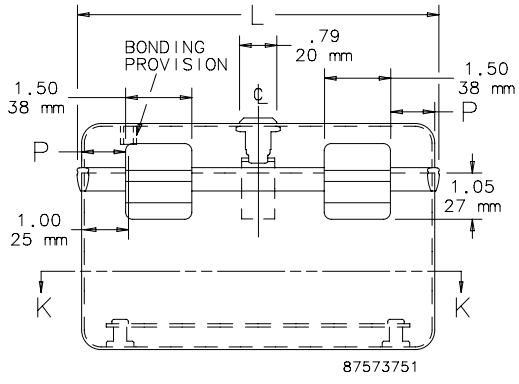
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

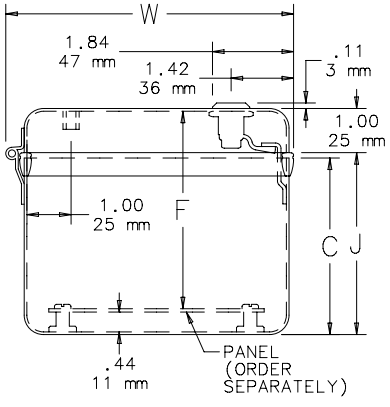
BULLETIN: A51

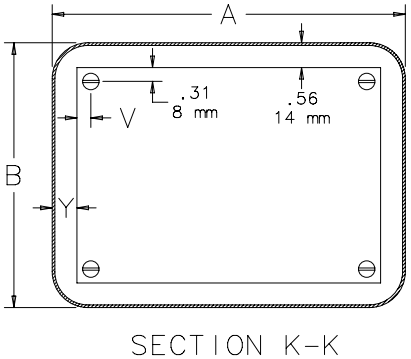
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size in./mm	Overall L x W in./mm	F in./mm	J in./mm	P in./mm	V in./mm	Y in./mm
D664IS	6.00 x 4.00 x 4.00 152 x 102 x 102	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.09 x 6.45 155 x 164	4.53 115	4.08 104	1.12 28	0.31 8	0.56 14
D864IS	8.00 x 6.66 x 4.00 203 x 169 x 102	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.09 x 6.45 205 x 164	4.53 115	4.08 104	1.12 28	0.25 6	0.62 16
D1084IS	10.00 x 8.00 x 4.00 254 x 203 x 102	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.09 x 8.45 256 x 215	4.53 115	4.08 104	1.12 28	0.25 6	0.62 16
D12104IS	12.00 x 10.00 x 4.00 305 x 254 x 102	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.09 x 10.45 307 x 265	4.53 115	4.08 104	1.25 32	0.25 6	0.62 16
D666IS	6.00 x 6.00 x 6.00 152 x 152 x 152	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.09 x 6.45 155 x 164	6.53 166	6.08 154	1.12 28	0.31 8	0.56 14
D866IS	8.00 x 6.00 x 6.00 203 x 152 x 152	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.09 x 6.45 205 x 164	6.53 166	6.08 154	1.12 28	0.25 6	0.62 16
D1086IS	10.00 x 8.00 x 6.00 254 x 203 x 152	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.09 x 8.45 256 x 215	6.53 166	6.08 154	1.12 28	0.25 6	0.62 16
D12106IS	12.00 x 10.00 x 6.00 305 x 254 x 152	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.09 x 10.45 307 x 265	6.53 166	6.08 154	1.25 32	0.25 6	0.62 16
D12108IS	12.00 x 10.00 x 8.00 305 x 254 x 203	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.09 x 10.45 307 x 265	8.53 217	8.08 205	1.25 32	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.





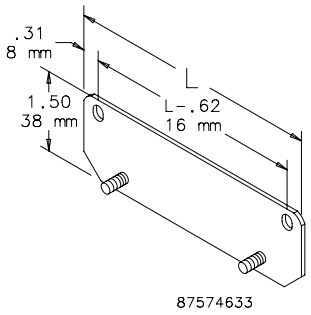


SECTION K–K

MOUNTING-BRACKET KITS

Includes two 14 gauge steel external mounting brackets and fasteners. Sealing washers are provided to maintain Type 12 rating after installation. Clear plated finish. Requires drilling holes in the enclosure. Mounting template is provided.

BULLETIN: A80



Catalog Number	Use On
DMFK1	Instrumentation enclosures D664IS through D1086IS
DMFK2	Instrumentation enclosures D12104IS through D12108IS

HANDLE KIT

Non-metallic handle for small enclosures. Includes four rubber bumpers that mount on back of enclosure to protect exterior finish. All mounting hardware and complete installation instructions are provided.

BULLETIN: A80

Catalog Number	Description
DHDLK	Handle kit

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REMOVABLE HINGE WITH QUICK-RELEASE LATCH, CONTOURED, TYPE 12

APPLICATION

Featuring a quick-release latch and mounting brackets, this hinged cover junction box made out of drawn steel offers rounded corners and smooth construction. It can be used in applications where a panel for mounting of controls is desired and protection of equipment from indoor contaminants is required.

SPECIFICATIONS

- Drawn 16 gauge steel
- No welded seams or sharp corners
- Removable door with unique lift-off hinges
- Cover is removable and interchangeable
- Unique lift-off hinges
- Quick-release latches
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels and terminal block kits
- External welded-on mounting brackets for easy installation
- Bonding provision on door

FINISH

ANSI 61 gray polyester powder paint inside and out

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12 and 13
IEC 60529, IP65

ACCESSORIES

Panels for Junction Boxes, page 1330
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

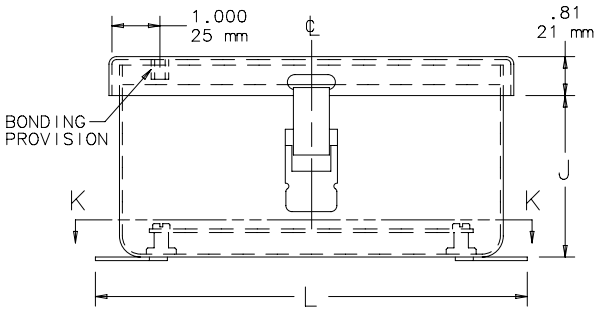
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

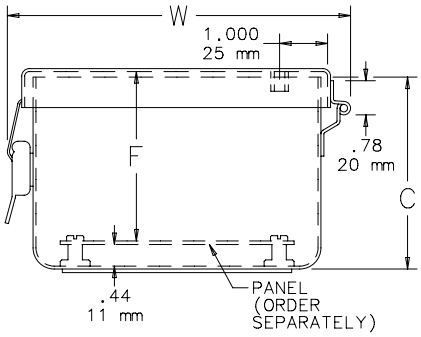
BULLETIN: A51

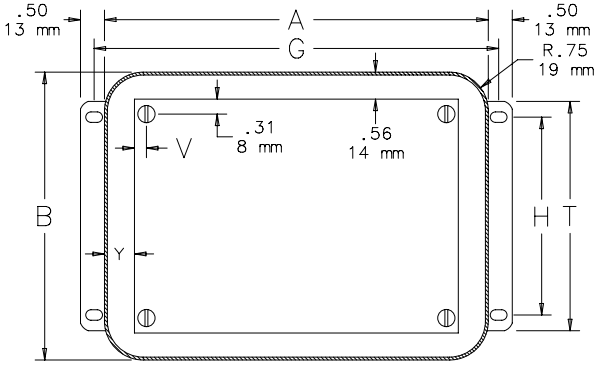
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	P in./mm	T in./mm	V in./mm	Y in./mm
A664DL	6.00 x 6.00 x 4.00 152 x 152 x 102	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.50 x 4.12 165 x 105	7.00 x 7.12 178 x 181	3.59 91	3.33 85	1.00 25	4.75 121	0.31 8	0.56 14
A864DL	8.00 x 6.00 x 4.00 203 x 152 x 102	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.50 x 4.12 216 x 105	9.00 x 7.12 229 x 181	3.59 91	3.33 85	1.00 25	4.75 121	0.25 6	0.62 16
A1084DL	10.00 x 8.00 x 4.00 254 x 203 x 102	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.50 x 4.12 267 x 105	11.00 x 9.12 279 x 232	3.59 91	3.33 85	1.00 25	4.75 121	0.25 6	0.62 16
A12104DL	12.00 x 10.00 x 4.00 305 x 254 x 102	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.50 x 8.12 318 x 206	13.00 x 11.12 330 x 282	3.59 91	3.33 85	1.25 32	8.75 222	0.25 6	0.62 16
A666DL	6.00 x 6.00 x 6.00 152 x 152 x 152	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.50 x 4.12 165 x 105	7.00 x 7.12 178 x 181	5.59 142	5.33 135	1.00 25	4.75 121	0.31 8	0.56 14
A866DL	8.00 x 6.00 x 6.00 203 x 152 x 152	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.50 x 4.12 216 x 105	9.00 x 7.12 229 x 181	5.59 142	5.33 135	1.00 25	4.75 121	0.25 6	0.62 16
A1086DL	10.00 x 8.00 x 6.00 254 x 203 x 152	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.50 x 4.12 267 x 105	11.00 x 9.12 279 x 232	5.59 142	5.33 135	1.00 25	4.75 121	0.25 6	0.62 16
A12106DL	12.00 x 10.00 x 6.00 305 x 254 x 152	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.50 x 8.12 318 x 206	13.00 x 11.12 330 x 282	5.59 142	5.33 135	1.25 32	8.75 222	0.25 6	0.62 16
A12108DL	12.00 x 10.00 x 8.00 305 x 254 x 203	A12P10	A12P10G	10.75 x 8.88 273 x 226	12.50 x 8.12 318 x 206	13.00 x 11.12 330 x 282	7.59 193	7.33 186	1.25 32	8.75 222	0.25 6	0.62 16

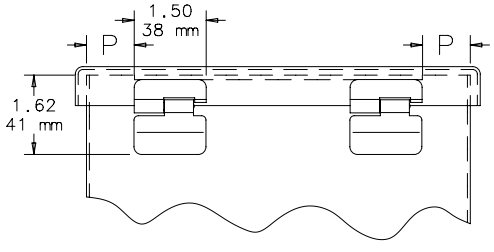
Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.



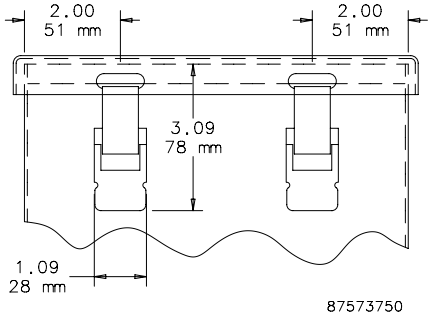




SECTION K-K



View showing hinge side of box.



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View showing latch side of box when two latches are used. When A=12.00 (305mm), use two latches.

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PUSHBUTTON ENCLOSURES, TYPE 12

APPLICATION

These pushbutton enclosures are designed to hold 30.5-mm or 22.5-mm pushbuttons and switches.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on cover
- Grounding stud on body
- Oil-resistant gasket
- Factory stamped 4-way pushbutton holes
- Enclosures with more than one column of pushbutton holes have internal detachable hinge to hold cover open during wiring
- External welded-on mounting brackets for easy installation
- 30.5-mm or 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

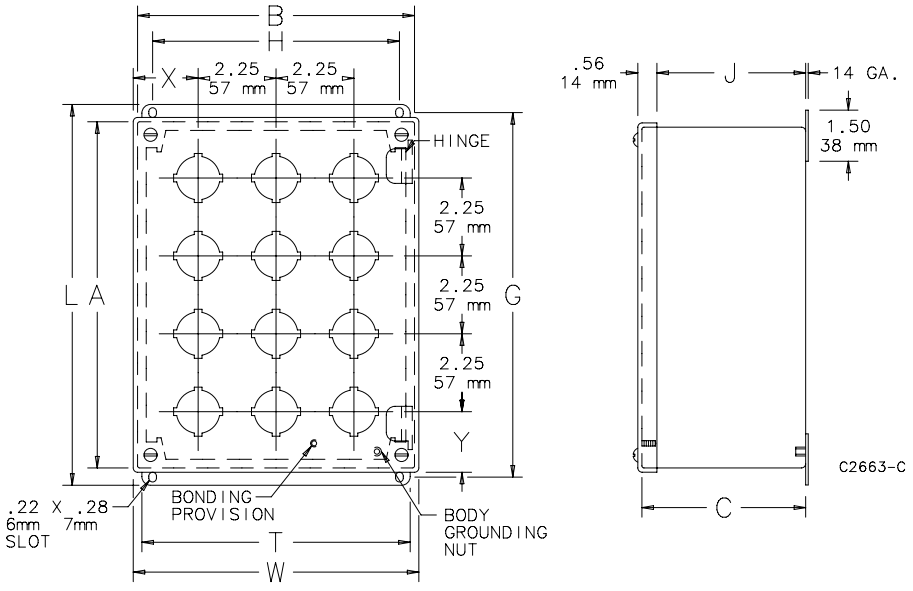
ACCESSORIES

HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Hole Size	Number of Holes	Gauge	Mounting G x H (in.)	Mounting G x H (mm)	Overall L x W (in.)	Overall L x W (mm)	J (in.)	J (mm)	T (in.)	T (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
E1PB	3.50 x 3.25 x 2.75	89 x 83 x 70	30.5 mm	1	16	4.00 x 2.38	102 x 60	4.50 x 3.47	114 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E1PBG	3.50 x 3.25 x 2.75	89 x 83 x 70	22.5 mm	1	16	4.00 x 2.38	102 x 60	4.50 x 3.47	114 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E2PB	5.75 x 3.25 x 2.75	146 x 83 x 70	30.5 mm	2	16	6.25 x 2.38	159 x 60	6.75 x 3.47	171 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E2PBG	5.75 x 3.25 x 2.75	146 x 83 x 70	22.5 mm	2	16	6.25 x 2.38	159 x 60	6.75 x 3.47	171 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E3PB	8.00 x 3.25 x 2.75	203 x 83 x 70	30.5 mm	3	14	8.50 x 2.38	216 x 60	9.00 x 3.47	229 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E3PBG	8.00 x 3.25 x 2.75	203 x 83 x 70	22.5 mm	3	14	8.50 x 2.38	216 x 60	9.00 x 3.47	229 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E4PB	10.00 x 3.25 x 2.75	254 x 83 x 70	30.5 mm	4	14	10.75 x 2.38	273 x 60	11.25 x 3.47	286 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E4PBG	10.00 x 3.25 x 2.75	254 x 83 x 70	22.5 mm	4	14	10.75 x 2.38	273 x 60	11.25 x 3.47	286 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E4SPB	7.25 x 6.25 x 3.00	184 x 159 x 76	30.5 mm	4	14	7.75 x 5.38	197 x 137	8.25 x 6.47	210 x 164	2.56	65	6.00	152	2.11	54	2.61	66
E4SPBG	7.25 x 6.25 x 3.00	184 x 159 x 76	22.5 mm	4	14	7.75 x 5.38	197 x 137	8.25 x 6.47	210 x 164	2.56	65	6.00	152	2.11	54	2.61	66
E5PB	12.50 x 3.25 x 2.75	318 x 83 x 70	30.5 mm	5	14	13.00 x 2.38	330 x 60	13.50 x 3.47	343 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E5PBG	12.50 x 3.25 x 2.75	317 x 83 x 70	22.5 mm	5	14	13.00 x 2.38	330 x 60	13.50 x 3.47	343 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E6PBVL	14.75 x 3.25 x 2.75	375 x 83 x 70	30.5 mm	6	14	15.25 x 2.38	387 x 60	15.75 x 3.47	400 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E6PBGVL	14.75 x 3.25 x 2.75	375 x 83 x 70	22.5 mm	6	14	15.25 x 2.38	387 x 60	15.75 x 3.47	400 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E6PB	9.50 x 6.25 x 3.00	241 x 159 x 76	30.5 mm	6	14	10.00 x 5.38	254 x 137	10.50 x 6.47	267 x 164	2.56	65	6.00	152	2.11	54	2.61	66
E6PBG	9.50 x 6.25 x 3.00	241 x 159 x 76	22.5 mm	6	14	10.00 x 5.38	254 x 137	10.50 x 6.47	267 x 164	2.56	65	6.00	152	2.11	54	2.61	66
E8PB	20.25 x 3.25 x 2.75	514 x 83 x 70	30.5 mm	8	14	20.75 x 2.38	527 x 60	21.25 x 3.47	540 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E8PBG	20.25 x 3.25 x 2.75	514 x 83 x 70	22.5 mm	8	14	20.75 x 2.38	527 x 60	21.25 x 3.47	540 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E9PB	9.50 x 8.50 x 3.00	241 x 216 x 76	30.5 mm	9	14	10.00 x 7.62	254 x 194	10.50 x 8.72	267 x 221	2.56	65	8.25	210	2.11	54	2.61	66
E9PBG	9.50 x 8.50 x 3.00	241 x 216 x 76	22.5 mm	9	14	10.00 x 7.62	254 x 194	10.50 x 8.72	267 x 221	2.56	65	8.25	210	2.11	54	2.61	66
E10PB	24.75 x 3.25 x 2.75	629 x 83 x 70	30.5 mm	10	14	25.25 x 2.38	641 x 60	25.75 x 3.47	654 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E10PBG	24.75 x 3.25 x 2.75	629 x 83 x 70	22.5 mm	10	14	25.25 x 2.38	641 x 60	25.75 x 3.47	654 x 88	2.31	59	3.00	76	1.73	44	1.86	47
E12PB	11.75 x 8.50 x 3.00	298 x 216 x 76	30.5 mm	12	14	12.25 x 7.62	311 x 194	12.75 x 8.72	324 x 221	2.56	65	8.25	210	2.11	54	2.61	66
E12PBG	11.75 x 8.50 x 3.00	298 x 216 x 76	22.5 mm	12	14	12.25 x 7.62	311 x 194	12.75 x 8.72	324 x 221	2.56	65	8.25	210	2.11	54	2.61	66
E16PB	11.75 x 10.75 x 3.00	298 x 273 x 76	30.5 mm	16	14	12.25 x 9.88	311 x 251	12.75 x 10.97	324 x 279	2.56	65	10.50	267	2.11	54	2.61	66
E16PBG	11.75 x 10.75 x 3.00	298 x 273 x 76	22.5 mm	16	14	12.25 x 9.88	311 x 251	12.75 x 10.97	324 x 279	2.56	65	10.50	267	2.11	54	2.61	66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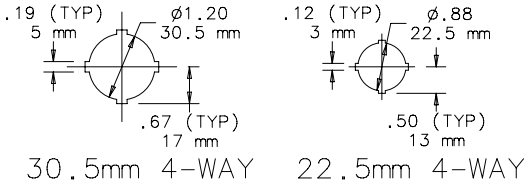
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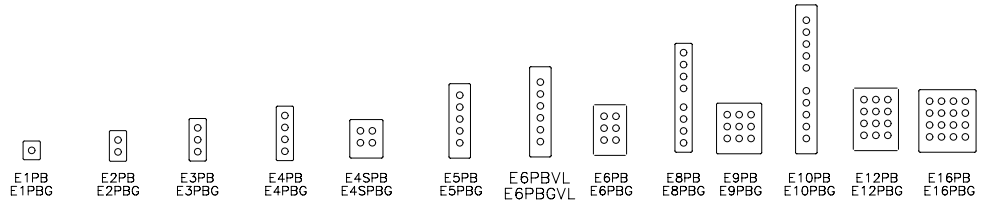
22.5mm 4-WAY


E1PB
E1PBG
E2PB
E2PBG
E3PB
E3PBG
E4PB
E4PBG
E4SPB
E4SPBG
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E5PBG
E6PBVL
E6PBGVL
E6PB
E6PBG
E8PB
E8PBG
E9PB
E9PBG
E10PB
E10PBG
E12PB
E12PBG
E16PB
E16PBG

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DEEP PUSHBUTTON ENCLOSURES, TYPE 12

APPLICATION

Designed for 22.5-mm pushbuttons and switches. The extra depths of 3.50 (89 mm) and 4.25 (108 mm) accommodates additional pushbutton contact blocks.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on cover
- Grounding stud on body
- Oil-resistant gasket
- Enclosures with more than one column of pushbutton holes have internal detachable hinge to hold cover open during wiring
- External welded-on mounting brackets for easy installation
- Factory stamped 4-way pushbutton holes
- 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1

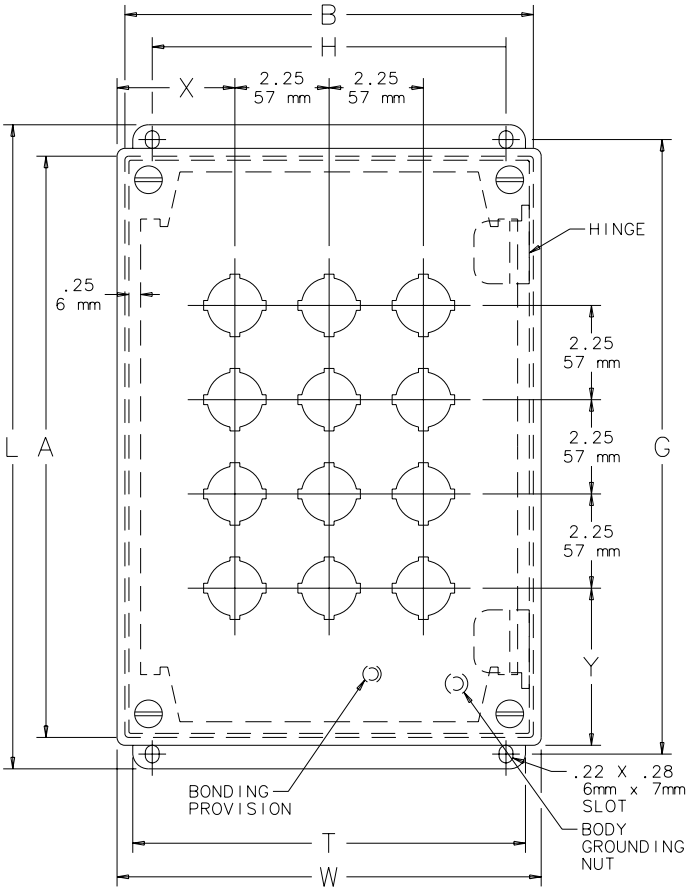
INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

Standard Product

Catalog Number	AxBxC in./mm	Number of Holes	Mounting G x H in./mm	Overall L x W in./mm	J in./mm	T in./mm	X in./mm	Y in./mm
E1PBGXM	3.25 x 2.75 x 3.50 83 x 70 x 89	1	3.75 x 1.88 95 x 48	4.25 x 2.97 108 x 75	3.09 78	2.50 64	1.48 38	1.73 44
E2PBGXM	5.12 x 2.75 x 3.50 130 x 70 x 89	2	5.62 x 1.88 143 x 48	6.12 x 2.97 155 x 75	3.09 78	2.50 64	1.48 38	1.55 39
E3PBGXM	7.25 x 2.75 x 3.50 184 x 70 x 89	3	7.75 x 1.88 197 x 48	8.25 x 2.97 210 x 75	3.09 78	2.50 64	1.48 38	1.48 38
E4PBGXM	9.50 x 2.75 x 3.50 241 x 70 x 89	4	10.00 x 1.88 254 x 48	10.50 x 2.97 267 x 75	3.09 78	2.50 64	1.48 38	1.48 38
E6PBGXM	8.50 x 5.00 x 4.25 216 x 127 x 108	6	9.00 x 4.12 229 x 105	9.50 x 5.22 241 x 133	3.84 98	4.75 121	1.48 38	2.11 54
E9PBGXM	8.50 x 7.25 x 4.25 216 x 184 x 108	9	9.00 x 5.63 229 x 162	9.50 x 7.47 241 x 190	3.84 98	6.25 159	1.48 38	2.11 54
E12PBGXM	10.38 x 7.25 x 4.25 264 x 184 x 108	12	10.88 x 5.63 276 x 162	11.38 x 7.47 289 x 190	3.84 98	6.25 159	1.48 38	1.92 49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57 mm
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BODY
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BONDING
PROVISION
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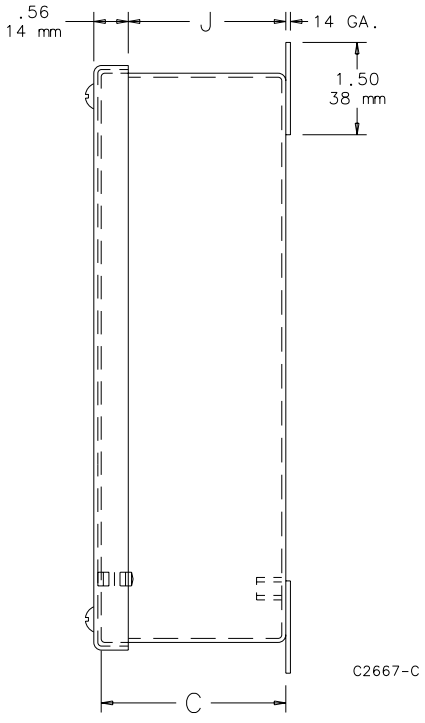
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14 GA.
1.50
38 mm
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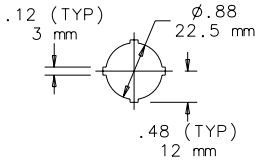
C2667-C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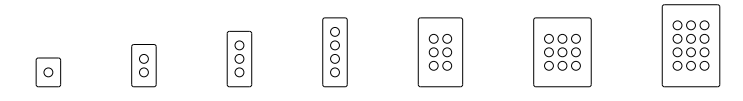
3 mm
Ø.88
22.5 mm
.48 (TYP)
12 mm

22.5mm 4-way


E1PBGXM
E2PBGXM
E3PBGXM
E4PBGXM
E6PBGXM
E9PBGXM
E12PBGXM

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EXTRA-DEEP PUSHBUTTON ENCLOSURES, TYPE 12

APPLICATION

Extra-Deep Pushbutton Enclosures are designed to hold 30.5-mm and 22.5-mm pushbuttons and switches, with a depths of 4.75 (121 mm) to accommodate additional pushbutton contact blocks.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on cover
- Grounding stud on body
- Oil-resistant gasket
- Factory stamped 4-way pushbutton holes
- Enclosures 6.00 x 4.00 x 4.75 in. (152 x 102 x 121 mm) and larger have internal detachable hinge to hold cover open during wiring
- External welded-on mounting brackets for easy installation
- 30.5-mm or 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1

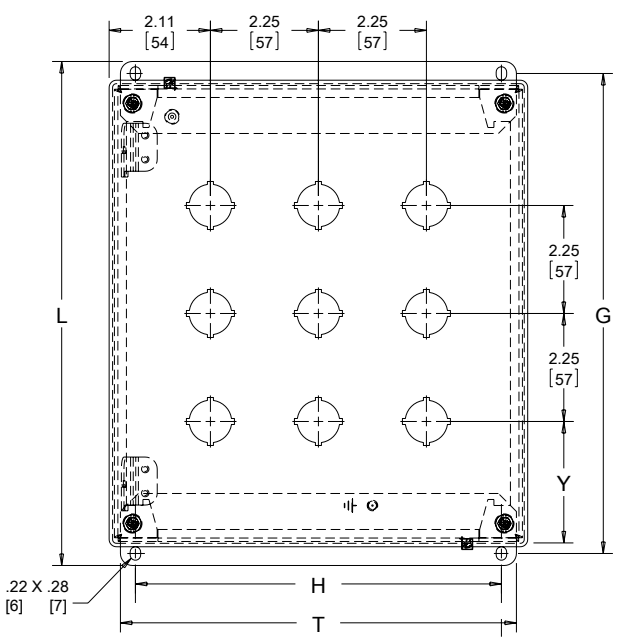
INDUSTRY STANDARDS

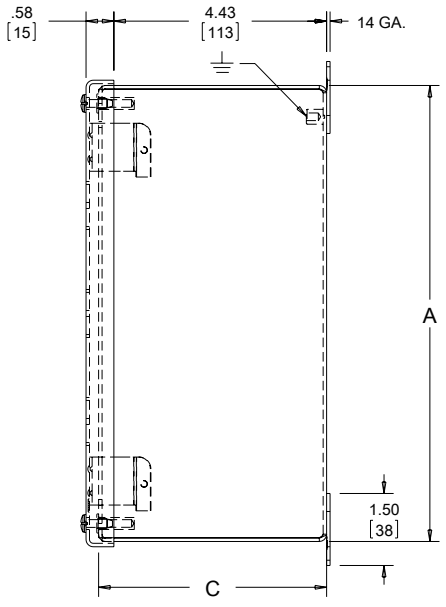
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Hole Size	Number of Holes	Gauge	Mounting G x H (in.)	Mounting G x H (mm)	Overall L x W (in.)	Overall L x W (mm)	T (in.)	T (mm)	Y (in.)	Y (mm)
E1PBX	4.00 x 4.00 x 4.75	102 x 102 x 121	30.5 mm	1	16	4.50 x 3.12	114 x 79	5.00 x 4.22	127 x 107	3.75	95	2.11	54
E1PBXM	4.00 x 4.00 x 4.75	102 x 102 x 121	22.5 mm	1	16	4.50 x 3.12	114 x 79	5.00 x 4.22	127 x 107	3.75	95	2.11	54
E2PBX	6.00 x 4.00 x 4.75	152 x 102 x 121	30.5 mm	2	14	6.50 x 3.12	165 x 79	7.00 x 4.22	178 x 107	3.75	95	1.98	50
E2PBXM	6.00 x 4.00 x 4.75	152 x 102 x 121	22.5 mm	2	14	6.50 x 3.12	165 x 79	7.00 x 4.22	178 x 107	3.75	95	1.98	50
E3PBX	8.00 x 4.00 x 4.75	203 x 102 x 121	30.5 mm	3	14	8.50 x 3.12	216 x 79	9.00 x 4.22	229 x 107	3.75	95	1.86	47
E3PBXM	8.00 x 4.00 x 4.75	203 x 102 x 121	22.5 mm	3	14	8.50 x 3.12	216 x 79	9.00 x 4.22	229 x 107	3.75	95	1.86	47
E4PBX	10.00 x 4.00 x 4.75	254 x 102 x 121	30.5 mm	4	14	10.50 x 3.12	267 x 79	11.00 x 4.22	279 x 107	3.75	95	1.73	44
E4PBXM	10.00 x 4.00 x 4.75	254 x 102 x 121	22.5 mm	4	14	10.50 x 3.12	267 x 79	11.00 x 4.22	279 x 107	3.75	95	1.73	44
E4SPBX	7.25 x 6.25 x 4.75	184 x 159 x 121	30.5 mm	4	14	7.75 x 5.38	197 x 137	8.25 x 6.47	210 x 164	6.00	152	2.61	66
E4SPBXM	7.25 x 6.25 x 4.75	184 x 159 x 121	22.5 mm	4	14	7.75 x 5.38	197 x 137	8.25 x 6.47	210 x 164	6.00	152	2.61	66
E6PBX	9.50 x 6.25 x 4.75	241 x 159 x 121	30.5 mm	6	14	10.00 x 5.38	254 x 137	10.50 x 6.47	267 x 164	6.00	152	2.61	66
E6PBXM	9.50 x 6.25 x 4.75	241 x 159 x 121	22.5 mm	6	14	10.00 x 5.38	254 x 137	10.50 x 6.47	267 x 164	6.00	152	2.61	66
E9PBX	9.50 x 8.25 x 4.75	241 x 210 x 121	30.5 mm	9	14	10.00 x 7.62	254 x 194	10.50 x 8.72	267 x 221	8.25	210	2.61	66
E9PBXM	9.50 x 8.50 x 4.75	241 x 216 x 121	22.5 mm	9	14	10.00 x 7.62	254 x 194	10.50 x 8.72	267 x 221	8.25	210	2.61	66
E10PBX	14.00 x 6.25 x 4.75	356 x 159 x 121	30.5 mm	10	14	14.50 x 5.38	368 x 137	15.00 x 6.47	381 x 164	6.00	152	2.61	66
E10PBXM	14.00 x 6.25 x 4.75	356 x 159 x 121	22.5 mm	10	14	14.50 x 5.38	368 x 137	15.00 x 6.47	381 x 164	6.00	152	2.61	66
E12PBX	11.75 x 8.50 x 4.75	298 x 216 x 121	30.5 mm	12	14	12.25 x 7.62	311 x 194	12.75 x 8.72	324 x 221	8.25	210	2.61	66
E12PBXM	11.75 x 8.50 x 4.75	298 x 216 x 121	22.5 mm	12	14	12.25 x 7.62	311 x 194	12.75 x 8.72	324 x 221	8.25	210	2.61	66
E16SPBXV	20.75 x 6.25 x 4.75	527 x 159 x 121	30.5 mm	16	14	21.25 x 5.38	540 x 137	21.75 x 6.47	552 x 164	6.00	152	2.61	66
E16SPBXVM	20.75 x 6.25 x 4.75	527 x 159 x 121	22.5 mm	16	14	21.25 x 5.38	540 x 137	21.75 x 6.47	552 x 164	6.00	152	2.61	66
E16PBX	11.75 x 10.75 x 4.75	298 x 273 x 121	30.5 mm	16	14	12.25 x 9.88	311 x 251	12.75 x 10.97	324 x 279	10.50	267	2.61	66
E16PBXM	11.75 x 10.75 x 4.75	298 x 273 x 121	22.5 mm	16	14	12.25 x 9.88	311 x 251	12.75 x 10.97	324 x 279	10.50	267	2.61	66
E20PBX	14.00 x 10.75 x 4.75	356 x 273 x 121	30.5 mm	20	14	14.50 x 9.88	368 x 251	15.00 x 10.97	381 x 279	10.50	267	2.61	66
E20PBXM	14.00 x 10.75 x 4.75	356 x 273 x 121	22.5 mm	20	14	14.50 x 9.88	368 x 251	15.00 x 10.97	381 x 279	10.50	267	2.61	66
E25PBX	14.00 x 13.00 x 4.75	356 x 330 x 121	30.5 mm	25	14	14.50 x 12.12	368 x 308	15.00 x 13.22	381 x 336	12.75	324	2.61	66
E25PBXM	14.00 x 13.00 x 4.75	356 x 330 x 121	22.5 mm	25	14	14.50 x 12.12	368 x 308	15.00 x 13.22	381 x 336	12.75	324	2.61	66





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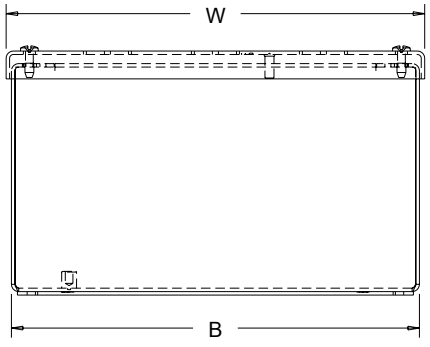
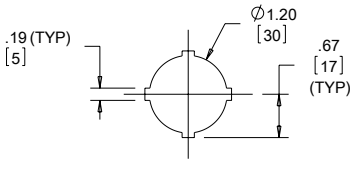
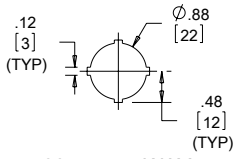
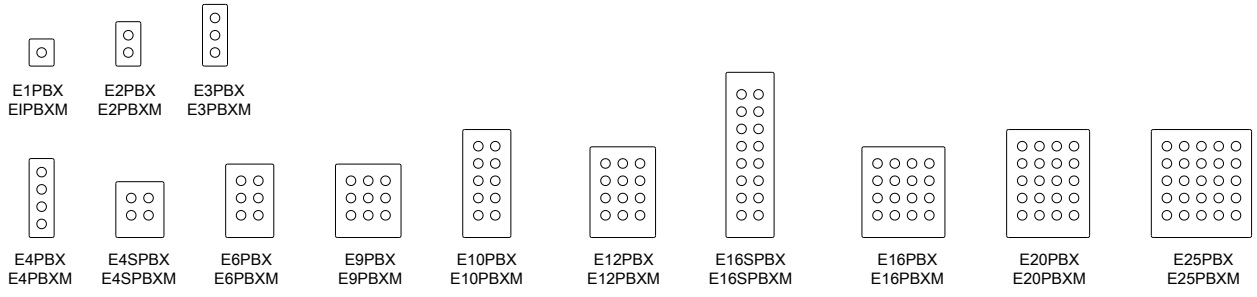




30.5mm 4-WAY



22.5mm 4-WAY



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EXTRA-DEEP PUSHBUTTON ENCLOSURES, TYPE 4

APPLICATION

Extra-Deep Pushbutton Enclosures, designed to hold 30.5-mm and 22.5-mm pushbuttons and switches, feature stainless steel screws and a high-performance polyurethane gasket to meet Type 4 environmental protection rating. A depth of 4.75 (121 mm) accommodates additional pushbutton contact blocks.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated stainless steel cover screws thread into sealed wells
- Grounding stud on body
- Bonding provision on cover
- High-performance polyurethane gasket
- Factory stamped 4-way pushbutton holes
- Enclosures 6.00 x 4.00 x 5.00 in. (152 x 102 x 127 mm) and larger have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- 30.5-mm or 22.5-mm size holes
- External wall-mounting brackets

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1

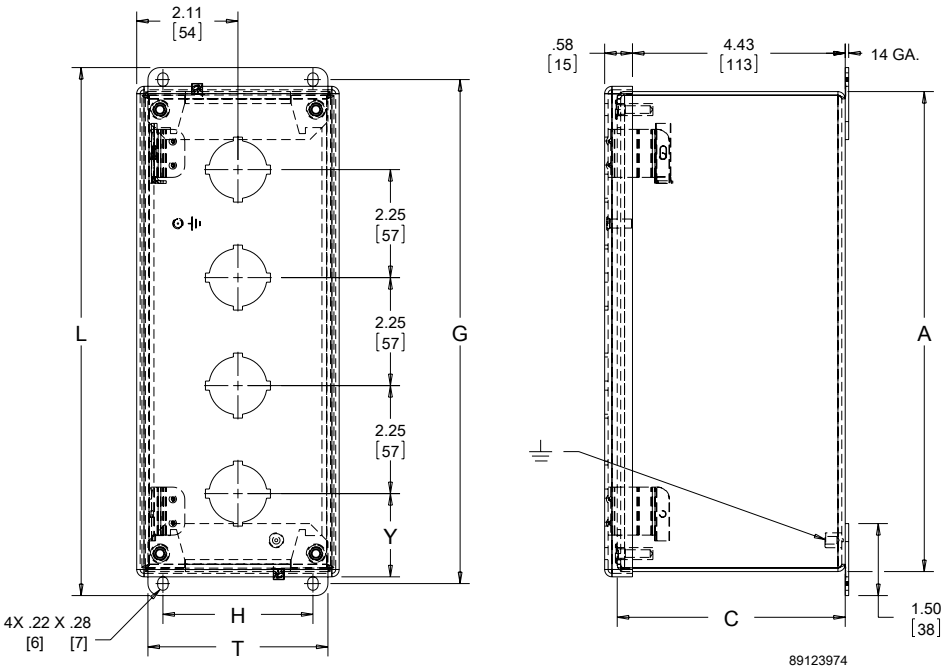
INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
CSA File Number 42186: Type 4, 12
IEC 60529, IP66

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Hole Size	No. of Holes	Gauge	Mounting GxH (in.)	Mounting GxH (mm)	Overall LxW (in.)	Overall LxW (mm)	T (in.)	T (mm)	Y (in.)	Y (mm)
E1PBX4	4.00 x 4.00 x 4.75	102 x 102 x 121	30.5 mm	1	16	4.50 x 3.12	114 x 79	5.00 x 4.22	127 x 107	3.75	95	2.11	54
E1PBXM4	4.00 x 4.00 x 4.75	102 x 102 x 121	22.5 mm	1	16	4.50 x 3.12	114 x 79	5.00 x 4.22	127 x 107	3.75	95	2.11	54
E2PBX4	6.00 x 4.00 x 4.75	153 x 102 x 121	30.5 mm	2	14	6.50 x 3.12	165 x 79	7.00 x 4.22	178 x107	3.75	95	1.98	50
E2PBXM4	6.00 x 4.00 x 4.75	153 x 102 x 121	22.5 mm	2	14	6.50 x 3.12	165 x 79	7.00 x 4.22	178 x107	3.75	95	1.98	50
E3PBX4	8.00 x 4.00 x 4.75	204 x 102 x 121	30.5 mm	3	14	8.50 x 3.12	216 x 79	9.00 x 4.22	229 x 107	3.75	95	1.98	47
E3PBXM4	8.00 x 4.00 x 4.75	204 x 102 x 121	22.5 mm	3	14	8.50 x 3.12	216 x 79	9.00 x 4.22	229 x 107	3.75	95	1.98	47
E4PBX4	10.00 x 4.00 x 4.75	254 x 102 x 121	30.5 mm	4	14	10.50 x 3.12	267 x 79	11.00 x 4.22	279 x 107	3.75	95	1.73	44
E4PBXM4	10.00 x 4.00 x 4.75	254 x 102 x 121	22.5 mm	4	14	10.50 x 3.12	267 x 79	11.00 x 4.22	279 x 107	3.75	95	1.73	44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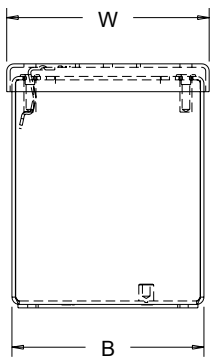
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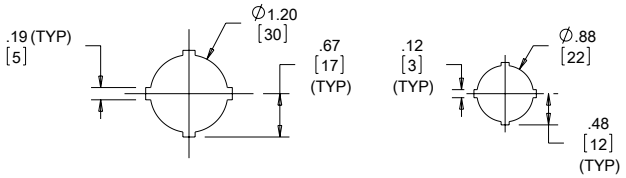
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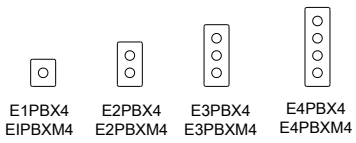
(TYP)
22.5mm 4-WAY


E1PBX4
EIPBXM4
E2PBX4
E2PBXM4
E3PBX4
E3PBXM4
E4PBX4
E4PBXM4

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SLOPED-FRONT PUSHBUTTON ENCLOSURES, TYPE 12

APPLICATION

These Sloped Front Pushbutton Enclosures are designed to hold 30.5-mm or 22.5-mm pushbuttons and switches where slanted control surfaces are desired.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on cover
- Grounding stud on body
- Oil-resistant gasket
- Factory stamped 4-way pushbutton holes
- Enclosures 7.25 x 6.25 x 6.75 in. (184 x 159 x 171 mm) and larger have internal detachable hinge to hold cover open during wiring
- External mounting brackets
- 30.5-mm or 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1

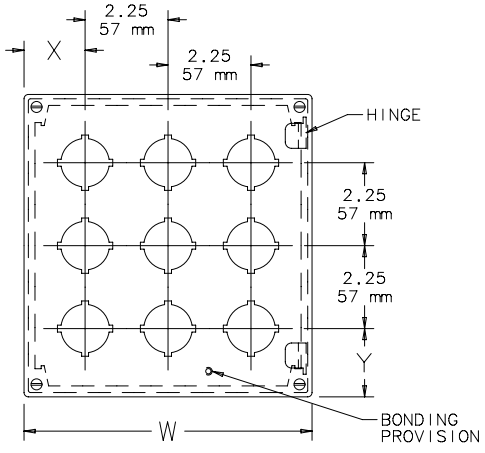
INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

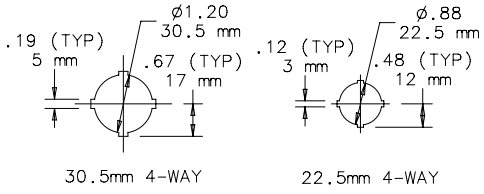
NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

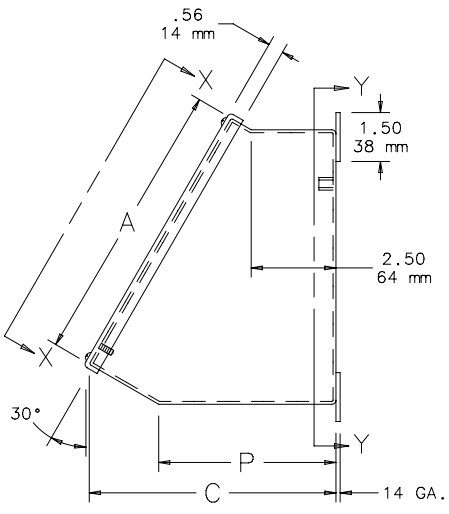
Standard Product

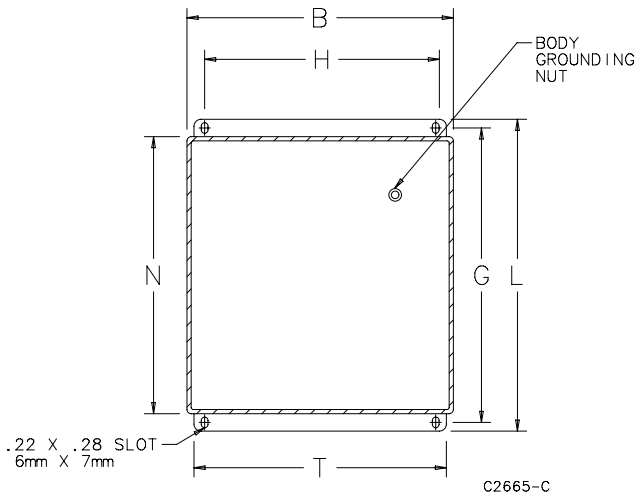
Catalog Number	AxBxC in.	AxBxC mm	Hole Size	No. of Holes	Mounting G x H (in.)	Mounting G x H (mm)	Overall L x W (in.)	Overall L x W (mm)	N (in.)	N (mm)	P (in.)	P (mm)	T (in.)	T (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
E1PBA	3.50 x 3.25 x 4.88	89 x 83 x 124	30.5 mm	1	4.03 x 2.38	102 x 60	4.53 x 3.47	115 x 88	3.53	90	3.34	85	3.00	76	1.73	44	1.86	47
E1PBAM	3.50 x 3.25 x 4.84	89 x 83 x 123	22.5 mm	1	4.03 x 2.38	102 x 60	4.53 x 3.47	115 x 88	3.53	90	3.34	85	3.00	76	1.73	44	1.86	47
E2PBA	3.50 x 5.50 x 4.88	89 x 140 x 124	30.5 mm	2	4.03 x 4.62	102 x 117	4.53 x 5.72	115 x 145	3.53	90	3.34	85	5.25	133	1.73	44	1.86	47
E2PBAM	3.50 x 5.50 x 4.84	89 x 140 x 123	22.5 mm	2	4.03 x 4.62	102 x 117	4.53 x 5.72	115 x 145	3.53	90	3.34	85	5.25	133	1.73	44	1.86	47
E3PBA	3.50 x 7.75 x 4.88	89 x 197 x 124	30.5 mm	3	4.03 x 6.88	102 x 175	4.53 x 7.97	115 x 202	3.53	90	3.34	85	7.50	191	1.73	44	1.86	47
E3PBAM	3.50 x 7.75 x 4.84	89 x 197 x 123	22.5 mm	3	4.03 x 6.88	102 x 175	4.53 x 7.97	115 x 202	3.53	90	3.34	85	7.50	191	1.73	44	1.86	47
E4PBA	3.50 x 10.00 x 4.88	89 x 254 x 124	30.5 mm	4	4.03 x 9.12	102 x 232	4.53 x 10.22	115 x 260	3.53	90	3.34	85	9.75	248	1.73	44	1.86	47
E4PBAM	3.50 x 10.00 x 4.84	89 x 254 x 123	22.5 mm	4	4.03 x 9.12	102 x 232	4.53 x 10.22	115 x 260	3.53	90	3.34	85	9.75	248	1.73	44	1.86	47
E4SPBA	7.25 x 6.25 x 6.75	184 x 159 x 171	30.5 mm	4	7.28 x 5.38	185 x 137	7.78 x 6.47	198 x 164	6.78	172	5.22	133	6.00	152	2.11	54	2.61	66
E4SPBAM	7.25 x 6.25 x 6.75	184 x 159 x 171	22.5 mm	4	7.28 x 5.38	185 x 137	7.78 x 6.47	198 x 164	6.78	172	5.22	133	6.00	152	2.11	54	2.61	66
E6PBA	7.25 x 8.50 x 6.75	184 x 216 x 171	30.5 mm	6	7.28 x 7.62	185 x 194	7.78 x 8.72	198 x 221	6.78	172	5.22	133	8.25	210	2.11	54	2.61	66
E6PBAM	7.25 x 8.50 x 6.75	184 x 216 x 171	22.5 mm	6	7.28 x 7.62	185 x 194	7.78 x 8.72	198 x 221	6.78	172	5.22	133	8.25	210	2.11	54	2.61	66
E8PBA	7.25 x 10.75 x 6.75	184 x 273 x 171	30.5 mm	8	7.28 x 9.88	185 x 251	7.78 x 10.97	198 x 279	6.78	172	5.22	133	10.50	267	2.11	54	2.61	66
E8PBAM	7.25 x 10.75 x 6.75	184 x 273 x 171	22.5 mm	8	7.28 x 9.88	185 x 251	7.78 x 10.97	198 x 279	6.78	172	5.22	133	10.50	267	2.11	54	2.61	66
E9PBA	9.50 x 8.50 x 7.88	241 x 216 x 200	30.5 mm	9	9.25 x 7.62	235 x 194	9.73 x 8.72	247 x 221	8.73	222	6.34	161	8.25	210	2.11	54	2.61	66
E9PBAM	9.50 x 8.50 x 7.88	241 x 216 x 200	22.5 mm	9	9.25 x 7.62	235 x 194	9.73 x 8.72	247 x 221	8.73	222	6.34	161	8.25	210	2.11	54	2.61	66
E10PBA	7.25 x 13.00 x 6.75	184 x 330 x 171	30.5 mm	10	7.28 x 12.12	185 x 308	7.78 x 13.22	198 x 336	6.78	172	5.22	133	12.75	324	2.11	54	2.61	66
E10PBAM	7.25 x 13.00 x 6.75	184 x 330 x 171	22.5 mm	10	7.28 x 12.12	185 x 308	7.78 x 13.22	198 x 336	6.78	172	5.22	133	12.75	324	2.11	54	2.61	66
E12PBA	7.25 x 15.25 x 6.75	184 x 387 x 171	30.5 mm	12	7.28 x 14.38	185 x 365	7.78 x 15.47	198 x 393	6.78	172	5.22	133	15.00	381	2.11	54	2.61	66
E12PBAM	7.25 x 15.25 x 6.75	184 x 387 x 171	22.5 mm	12	7.28 x 14.38	185 x 365	7.78 x 15.47	198 x 393	6.78	172	5.22	133	15.00	381	2.11	54	2.61	66
E12SPBA	11.25 x 8.50 x 9.00	286 x 216 x 229	30.5 mm	12	11.19 x 7.62	284 x 194	11.69 x 8.72	297 x 221	10.69	272	7.47	190	8.25	210	2.11	54	2.61	66
E12SPBAM	11.75 x 8.50 x 9.00	298 x 216 x 229	22.5 mm	12	11.19 x 7.62	284 x 194	11.69 x 8.72	297 x 221	10.69	272	7.47	190	8.25	210	2.11	54	2.61	66
E16SPBAH	7.25 x 19.75 x 6.75	184 x 502 x 171	30.5 mm	16	7.28 x 18.88	185 x 480	7.78 x 19.97	198 x 507	6.78	172	5.22	133	19.50	495	2.11	54	2.61	66
E16SPBAHM	7.25 x 19.75 x 6.75	184 x 502 x 171	22.5 mm	16	7.28 x 18.88	185 x 480	7.78 x 19.97	198 x 507	6.78	172	5.22	133	19.50	495	2.11	54	2.61	66
E16PBA	11.75 x 10.75 x 9.00	298 x 273 x 229	30.5 mm	16	11.19 x 9.88	284 x 251	11.69 x 10.97	297 x 279	10.69	272	7.47	190	10.50	267	2.11	54	2.61	66
E16PBAM	11.75 x 10.75 x 9.00	298 x 273 x 229	22.5 mm	16	11.19 x 9.88	284 x 251	11.69 x 10.97	297 x 279	10.69	272	7.47	190	10.50	267	2.11	54	2.61	66
E20PBA	11.75 x 13.00 x 9.00	298 x 330 x 229	30.5 mm	20	11.19 x 12.12	284 x 308	11.69 x 13.22	297 x 336	10.69	272	7.49	190	12.75	324	2.11	54	2.61	66
E20PBAM	11.75 x 13.00 x 9.00	298 x 330 x 229	22.5 mm	20	11.19 x 12.12	284 x 308	11.69 x 13.22	297 x 336	10.69	272	7.49	190	12.75	324	2.11	54	2.61	66
E25PBA	14.00 x 13.00 x 10.12	356 x 330 x 257	30.5 mm	25	13.12 x 12.12	333 x 308	13.62 x 13.22	346 x 336	12.62	321	8.59	218	12.75	324	2.11	54	2.61	66
E25PBAM	14.00 x 13.00 x 10.12	356 x 330 x 257	22.5 mm	25	13.12 x 12.12	333 x 308	13.62 x 13.22	346 x 336	12.62	321	8.59	218	12.75	324	2.11	54	2.61	66
E30PBA	14.00 x 15.00 x 10.12	356 x 381 x 257	30.5 mm	30	13.12 x 14.38	333 x 365	13.62 x 15.47	346 x 393	12.62	321	8.59	218	15.00	381	2.11	54	2.61	66
E30PBAM	14.00 x 15.25 x 10.12	356 x 387 x 257	22.5 mm	30	13.12 x 14.38	333 x 365	13.62 x 15.47	346 x 393	12.62	321	8.59	218	15.00	381	2.11	54	2.61	66



VIEW X–X

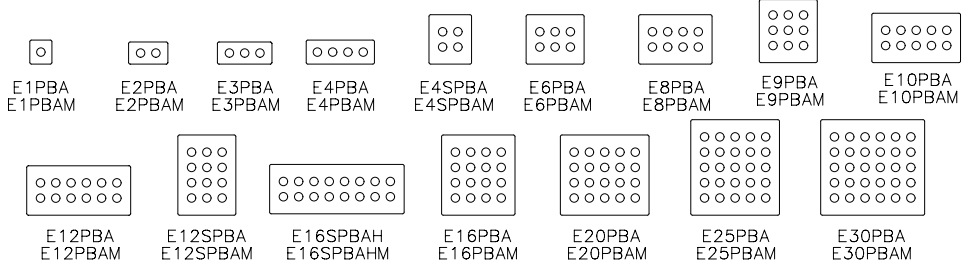






SECTION Y–Y

Hole Arrangement



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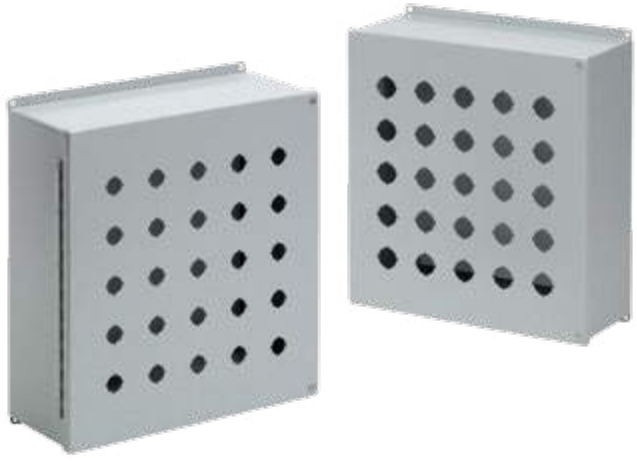
EXTRA-LARGE PUSHBUTTON ENCLOSURES, TYPE 12



INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

APPLICATION

Extra-Large Pushbutton Enclosures with panels are designed to hold 30.5-mm and 22.5-mm pushbuttons and switches, with factory-stamped holes ranging from 4 to 42 total number of holes.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Continuous hinge
- Factory stamped 4-way pushbutton holes
- Oil-resistant gasket
- Removable 14 gauge panel included, supported by weldnuts
- Bonding provision on cover
- External welded-on mounting brackets for easy installation
- 30.5-mm or 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out. Included panels have white finish.

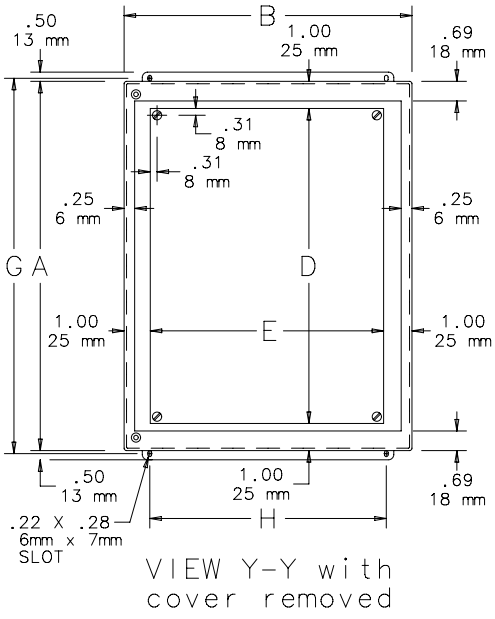
ACCESSORIES

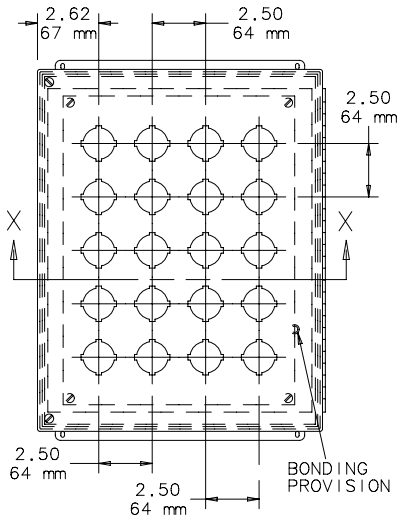
HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

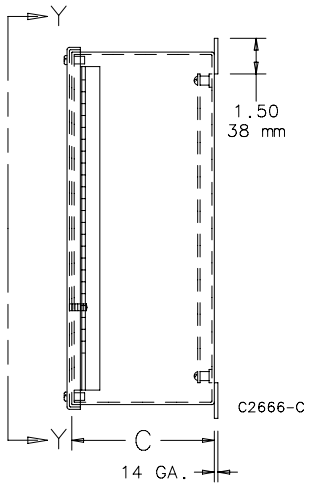
BULLETIN: PB1

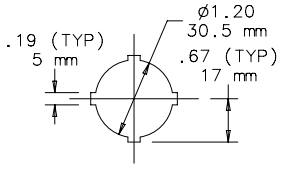
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Hole Size	Number of Holes	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)
E4SPBY25	8.50 x 7.50 x 6.00	216 x 191 x 152	30.5 mm	4	6.50 x 5.50	165 x 140	9.00 x 6.62	229 x 168
E4SPBY25M	8.50 x 7.50 x 6.00	216 x 191 x 152	22.5 mm	4	6.50 x 5.50	165 x 140	9.00 x 6.62	229 x 168
E6PBY25	11.00 x 7.50 x 6.00	279 x 191 x 152	30.5 mm	6	9.00 x 5.50	229 x 140	11.50 x 6.62	292 x 168
E6PBY25M	11.00 x 7.50 x 6.00	279 x 191 x 152	22.5 mm	6	9.00 x 5.50	229 x 140	11.50 x 6.62	292 x 168
E9PBY25	11.00 x 10.00 x 6.00	279 x 254 x 152	30.5 mm	9	9.00 x 8.00	229 x 203	11.50 x 9.12	292 x 232
E9PBY25M	11.00 x 10.00 x 6.00	279 x 254 x 152	22.5 mm	9	9.00 x 8.00	229 x 203	11.50 x 9.12	292 x 232
E12PBY25	13.50 x 10.00 x 6.00	343 x 254 x 152	30.5 mm	12	11.50 x 8.00	292 x 203	14.00 x 9.12	356 x 232
E12PBY25M	13.50 x 10.00 x 6.00	343 x 254 x 152	22.5 mm	12	11.50 x 8.00	292 x 203	14.00 x 9.12	356 x 232
E16PBY25	13.50 x 12.50 x 6.00	343 x 318 x 152	30.5 mm	16	11.50 x 10.50	292 x 267	14.00 x 11.62	356 x 295
E16PBY25M	13.50 x 12.50 x 6.00	343 x 318 x 152	22.5 mm	16	11.50 x 10.50	292 x 267	14.00 x 11.62	356 x 295
E20PBY25	16.00 x 12.50 x 6.00	406 x 318 x 152	30.5 mm	20	14.00 x 10.50	356 x 267	16.50 x 11.62	419 x 295
E20PBY25M	16.00 x 12.50 x 6.00	406 x 318 x 152	22.5 mm	20	14.00 x 10.50	356 x 267	16.50 x 11.62	419 x 295
E25PBY25	16.00 x 15.00 x 6.00	406 x 381 x 152	30.5 mm	25	14.00 x 13.00	356 x 330	16.50 x 14.12	419 x 359
E25PBY25M	16.00 x 15.00 x 6.00	406 x 381 x 152	22.5 mm	25	14.00 x 13.00	356 x 330	16.50 x 14.12	419 x 359
E30PBY25	18.50 x 15.00 x 6.00	470 x 381 x 152	30.5 mm	30	16.50 x 13.00	419 x 330	19.00 x 14.12	483 x 359
E30PBY25M	18.50 x 15.00 x 6.00	470 x 381 x 152	22.5 mm	30	16.50 x 13.00	419 x 330	19.00 x 14.12	483 x 359
E36PBY25	18.50 x 17.50 x 6.00	470 x 445 x 152	30.5 mm	36	16.50 x 15.50	419 x 394	19.00 x 16.62	483 x 422
E36PBY25M	18.50 x 17.50 x 6.00	470 x 445 x 152	22.5 mm	36	16.50 x 15.50	419 x 394	19.00 x 16.62	483 x 422
E42PBY25	21.00 x 17.50 x 6.00	533 x 445 x 152	30.5 mm	42	19.00 x 15.50	483 x 394	21.50 x 16.62	546 x 422
E42PBY25M	21.00 x 17.50 x 6.00	533 x 445 x 152	22.5 mm	42	19.00 x 15.50	483 x 394	21.50 x 16.62	546 x 422

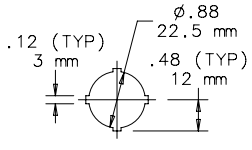




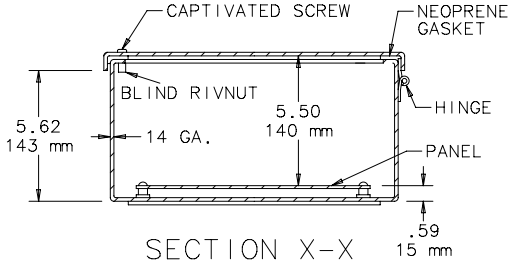




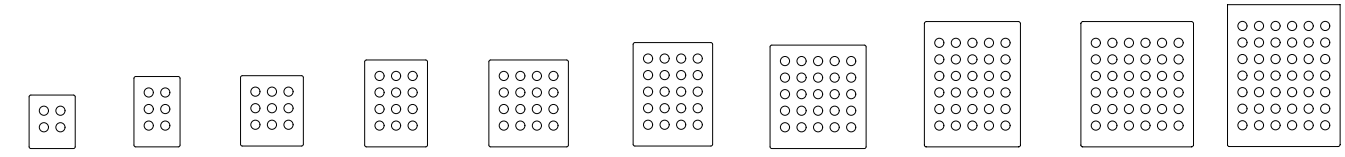
30.5mm 4-WAY



22.5mm 4-WAY



SECTION X-X



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DRAWN PUSHBUTTON ENCLOSURES, TYPE 4

APPLICATION

Drawn Pushbutton Enclosures are designed to hold 30.5-mm or 22.5-mm 4-way pushbuttons and switches. These enclosures have no welded seams or sharp corners.

SPECIFICATIONS

- Drawn 16 gauge steel; no welded seams or sharp corners
- Cover screws outside gasket sealing surface
- Flat or domed flanged cover
- Bonding provision on cover
- Grounding stud on body
- Oil-resistant gasket
- External welded-on mounting brackets for easy installation
- Factory stamped 4-way pushbutton holes
- 30.5-mm or 22.5-mm size holes

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
HOL-SEALERS Hole Seals, page 1374

BULLETIN: PB1

INDUSTRY STANDARDS

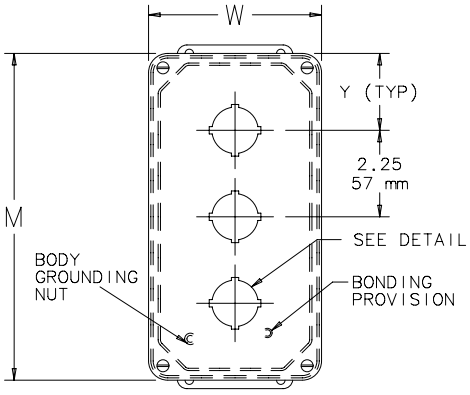
UL 508A Listed; Type 4, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997

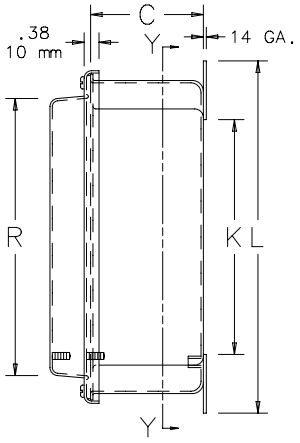
NEMA/EEMAC Type 4, 12, 13
IEC 60529, IP66

Standard Product

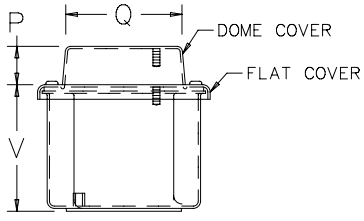
Catalog Number	AxBxC in./mm	Hole Size	Number of Holes	Mounting G x H in./mm	Cover Type	Enclosure Depth P + V in./mm	F in./mm	K in./mm	L in./mm	M in./mm	P in./mm	Q in./mm	R in./mm	S in./mm	T in./mm	V in./mm	W in./mm	Y in./mm
ED1PB1	4.50 x 2.88 x 2.62	30.5 mm	1	5.00 x 1.12	Flat	—	—	—	—	—	—	—	—	—	—	—	—	2.78
	114 x 73 x 67			127 x 29		—	—	—	—	—	—	—	—	—	—	—	—	71
ED1PB2	3.50 x 4.00 x 2.75	30.5 mm	1	4.00 x 2.38	Flat	—	3.00	1.50	4.50	4.00	—	—	—	2.06	2.56	2.98	4.50	2.00
	89 x 102 x 70			102 x 60		—	76	38	114	102	—	—	—	52	65	76	114	51
ED2PB	5.75 x 4.00 x 2.75	30.5 mm	2	6.25 x 2.38	Flat	—	3.00	3.75	6.75	6.25	—	—	—	4.31	2.56	2.98	4.50	2.00
	146 x 102 x 70			159 x 60		—	76	95	171	159	—	—	—	109	65	76	114	51
ED3PB	8.00 x 4.00 x 2.75	30.5 mm	3	8.50 x 2.38	Flat	—	3.00	6.00	9.00	8.50	—	—	—	6.56	2.56	2.98	4.50	2.00
	203 x 102 x 70			216 x 60		—	76	152	229	216	—	—	—	167	65	76	114	51
ED4PB	10.25 x 4.00 x 2.75	30.5 mm	4	10.75 x 2.38	Flat	—	3.00	8.25	11.25	10.75	—	—	—	8.81	2.56	2.98	4.50	2.00
	260 x 102 x 70			273 x 60		—	76	210	286	273	—	—	—	224	65	76	114	51
ED1PBX	3.50 x 4.00 x 3.75	30.5 mm	1	4.00 x 2.38	Dome	4.98	3.00	1.50	4.50	4.00	1.00	3.03	2.53	2.06	2.56	3.98	4.50	2.00
	89 x 102 x 95			102 x 60		126	76	38	114	102	25	77	64	52	65	101	114	51
ED1PBXM	3.50 x 4.00 x 3.75	22.5 mm	1	4.00 x 2.38	Dome	4.98	3.00	1.50	4.50	4.00	1.00	3.03	2.53	2.06	2.56	3.98	4.50	2.00
	89 x 102 x 95			102 x 60		126	76	38	114	102	25	77	64	52	65	101	114	51
ED2PBX	5.75 x 4.00 x 3.75	30.5 mm	2	6.25 x 2.38	Dome	4.98	3.00	3.75	6.75	6.25	1.00	3.03	4.78	4.31	2.56	3.98	4.50	2.00
	146 x 102 x 95			159 x 60		126	76	95	171	159	25	77	121	109	65	101	114	51
ED2PBXM	5.75 x 4.00 x 3.75	22.5 mm	2	6.25 x 2.38	Dome	4.98	3.00	3.75	6.75	6.25	1.00	3.03	4.78	4.31	2.56	3.98	4.50	2.00
	146 x 102 x 95			159 x 60		126	76	95	171	159	25	77	121	109	65	101	114	51
ED3PBX	8.00 x 4.00 x 3.75	30.5 mm	3	8.50 x 2.38	Dome	4.98	3.00	6.00	9.00	8.50	1.00	3.03	7.03	6.56	2.56	3.98	4.50	2.00
	203 x 102 x 95			216 x 60		126	76	152	229	216	25	77	179	167	65	101	114	51
ED3PBXM	8.00 x 4.00 x 3.75	22.5 mm	3	8.50 x 2.38	Dome	4.98	3.00	6.00	9.00	8.50	1.00	3.03	7.03	6.56	2.56	3.98	4.50	2.00
	203 x 102 x 95			216 x 60		126	76	152	229	216	25	77	179	167	65	101	114	51
ED4PBX	10.25 x 4.00 x 3.75	30.5 mm	4	10.75 x 2.38	Dome	4.98	3.00	8.25	11.25	10.75	1.00	3.03	9.25	8.81	2.56	3.98	4.50	2.00
	260 x 102 x 95			273 x 60		126	76	210	286	273	25	77	235	224	65	101	114	51
ED4PBXM	10.25 x 4.00 x 3.75	22.5 mm	4	10.75 x 2.38	Dome	4.98	3.00	8.25	11.25	10.75	1.00	3.03	9.25	8.81	2.56	3.98	4.50	2.00
	260 x 102 x 95			273 x 60		126	76	210	286	273	25	77	235	224	65	101	114	51
ED1PBM1	4.50 x 2.88 x 2.62	22.5 mm	1	5.00 x 1.12	Flat	—	—	—	—	—	—	—	—	—	—	—	—	2.78
	114 x 73 x 67			127 x 29		—	—	—	—	—	—	—	—	—	—	—	—	71
ED1PBM2	3.50 x 4.00 x 3.75	22.5 mm	1	4.00 x 2.38	Flat	—	3.00	1.50	4.50	4.00	—	—	—	2.06	2.56	3.98	4.50	2.00
	89 x 102 x 95			102 x 60		—	76	38	114	102	—	—	—	52	65	101	114	51
ED2PBM	5.75 x 4.00 x 3.75	22.5 mm	2	6.25 x 2.38	Flat	—	3.00	3.75	6.75	6.25	—	—	—	4.31	2.56	3.98	4.50	2.00
	146 x 102 x 95			159 x 60		—	76	95	171	159	—	—	—	109	65	101	114	51
ED3PBM	8.00 x 4.00 x 3.75	22.5 mm	3	8.50 x 2.38	Flat	—	3.00	6.00	9.00	8.50	—	—	—	6.56	2.56	3.98	4.50	2.00
	203 x 102 x 95			216 x 60		—	76	152	229	216	—	—	—	167	65	101	114	51
ED4PBM	10.25 x 4.00 x 3.75	22.5 mm	4	10.75 x 2.38	Flat	—	3.00	8.25	11.25	10.75	—	—	—	8.81	2.56	3.98	4.50	2.00
	260 x 102 x 95			273 x 60		—	76	210	286	273	—	—	—	224	65	101	114	51

For dimensions of the ED1PB1 and ED1PBM1 enclosures, see catalog number A403DSC in Mild Steel: Screw Cover, Contoured, Type 4. "Y" dimension locates pushbutton hole.

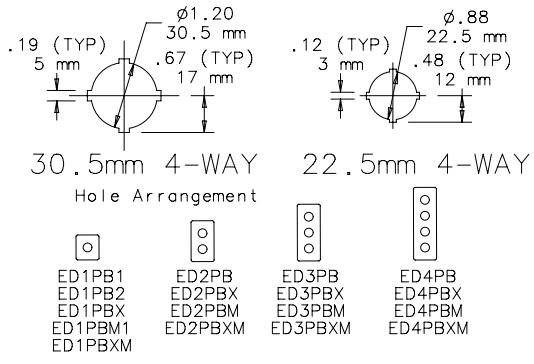


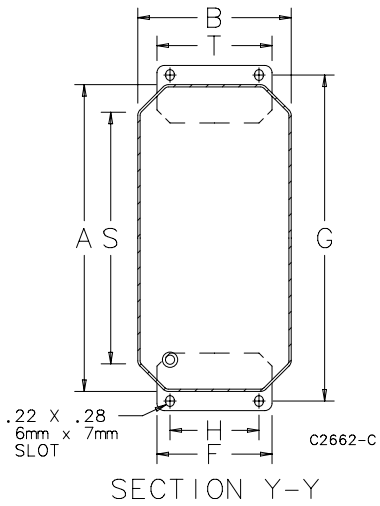


NOTE:
1. External mounting brackets are 14 gauge steel.
2. These drawings do not apply to catalog numbers ED1PBI and ED1PBMI. For enclosure dimensions, see catalog number A403DSC in Mild Steel chapter, Screw Cover, Contoured, Type 4 (S-2927)



END VIEW





SECTION Y-Y

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INLINE, TYPE 4

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 3, 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3, 4, 12; File No. E61997

NEMA/EEMAC Type 4 and 12
CSA, File No. 42186: Type 4 and 12
IEC 60529, IP66

APPLICATION

Aesthetic styling, with an attractive, durable light-gray finish, makes INLINE Enclosures an excellent choice when style and functionality are important. INLINE Enclosures have an outward formed flange to prevent contaminants from entering the enclosure and are available in three versions: window door, hinged solid door and solid screw cover.

SPECIFICATIONS

- Metric dimensions
- 1.4-mm (16 gauge) steel
- Seams continuously welded and ground smooth
- External formed body flange channels away liquids
- Large perimeter body opening
- Mounting holes in back of body for direct mounting or optional external mounting brackets
- Seamless foam-in-place gasket
- Grounding stud on the body
- Bonding provision on the door
- Hardware kit includes panel mounting screws, grounding hardware and sealing washers for wall-mounting holes
- Installation instructions

INLINE Screw-Cover Enclosures

- Captivated cover screws with sealing bushings

INLINE Hinged-Door and Window-Door Enclosures

- Door opens 180 degrees
- Removable hinged door
- Self-grounding, slotted quarter-turn latch
- Flush-mounted 4.8-mm (3/16-in.) clear polycarbonate window

FINISH

RAL 7035 textured light-gray polyester powder paint inside and out

ACCESSORIES

Panel, page 1438
Mounting Bracket Kit, Plated and 316, page 1438
Lock Inserts, page 1438
Wing Knob Latch, page 1438
Grounding Kit, page 1439
DIN3 Type Rails, page 1439
DIN Rail or Panel-Mounting Brackets, page 1439

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

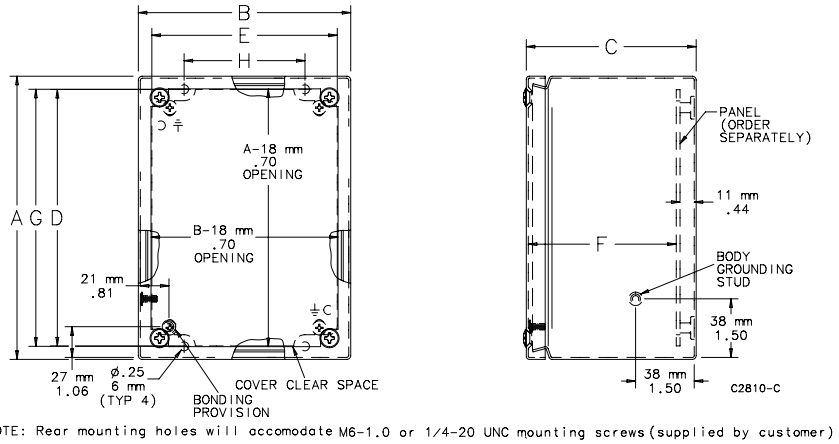
BULLETIN: A54

Standard Product **INLINE Screw-Cover Enclosures**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.
LSC151512	150 x 150 x 120 5.91 x 5.91 x 4.72	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.18 x 3.36	105 4.13
LSC201512	200 x 150 x 120 7.87 x 5.91 x 4.72	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.15 x 3.36	105 4.13
LSC252015	250 x 200 x 150 9.84 x 7.87 x 5.91	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.12 x 5.33	135 5.31
LSC302515	300 x 250 x 150 11.81 x 9.84 x 5.91	LP3025	LP3025G	281 x 231 11.06 x 9.09	281 x 185 11.08 x 7.30	135 5.31
LSC353020	350 x 300 x 200 13.78 x 11.81 x 7.87	LP3530	LP3530G	331 x 281 13.03 x 11.06	331 x 235 13.05 x 9.27	185 7.28

Purchase panels separately.

INLINE Screw Cover Enclosure



NOTE: Rear mounting holes will accomodate M6-1.0 or 1/4-20 UNC mounting screws (supplied by customer)

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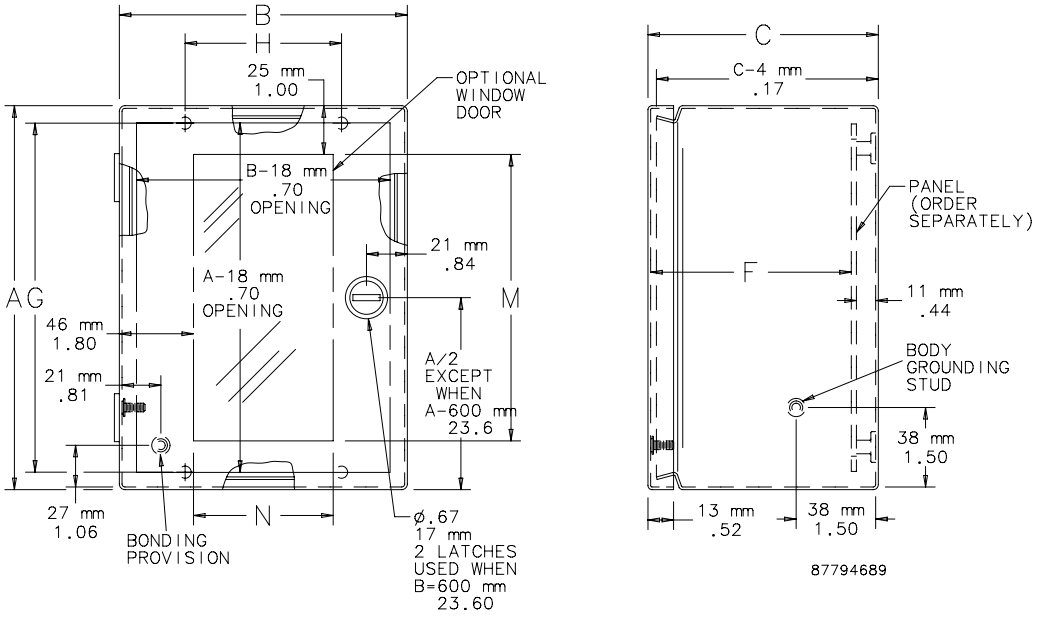
Standard Product **INLINE Hinged-Door Enclosures**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.
LHC151512	150 x 150 x 120 5.91 x 5.91 x 4.72	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.18 x 3.36	105 4.13
LHC201512	200 x 150 x 120 7.87 x 5.91 x 4.72	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.15 x 3.36	105 4.13
LHC252015	250 x 200 x 150 9.84 x 7.87 x 5.91	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.12 x 5.33	135 5.31
LHC302515	300 x 250 x 150 11.81 x 9.84 x 5.91	LP3025	LP3025G	281 x 231 11.06 x 9.09	281 x 185 11.08 x 7.30	135 5.31
LHC353020	350 x 300 x 200 13.78 x 11.81 x 7.87	LP3530	LP3530G	331 x 281 13.03 x 11.06	331 x 235 13.05 x 9.27	185 7.28

Purchase panels separately.

INLINE Hinged Door and Window Door Enclosures



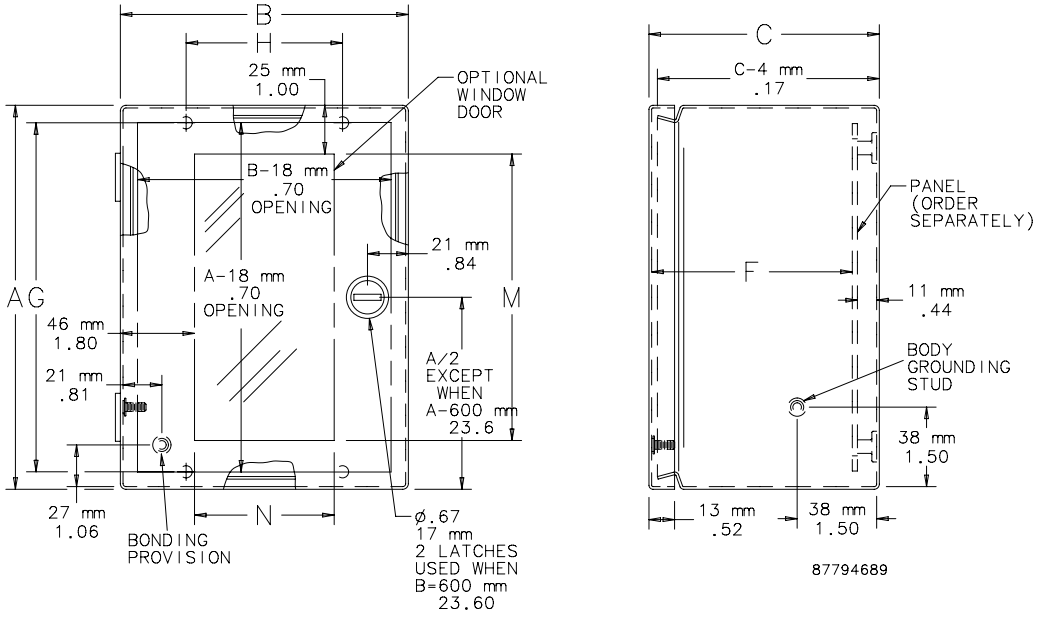
Standard Product **INLINE Window-Door Enclosures**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	Window Size M x N mm/in.	F mm/in.
LWC201512	200 x 150 x 120 7.87 x 5.91 x 4.72	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.15 x 3.36	149 x 65 5.87 x 2.31	101 3.98
LWC252015	250 x 200 x 150 9.84 x 7.87 x 5.91	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.12 x 5.33	199 x 115 7.83 x 4.24	131 5.16
LWC302515	300 x 250 x 150 11.81 x 9.84 x 5.91	LP3025	LP3025G	281 x 231 11.06 x 9.09	281 x 185 11.08 x 7.30	249 x 165 9.80 x 6.25	131 5.16
LWC204015	200 x 400 x 150 7.87 x 15.75 x 5.91	LP2040	LP2040G	181 x 381 7.13 x 15.00	182 x 335 7.15 x 13.20	115 x 349 4.53 x 13.49	131 5.16
LWC206015	200 x 600 x 150 7.87 x 23.62 x 5.91	LP2060	LP2060G	181 x 581 7.13 x 21.06	182 x 535 7.15 x 21.08	115 x 549 4.53 x 21.36	131 5.16

Purchase panels separately.

LWC204015 and LWC206015 are hinged on "B" side of enclosure.

INLINE Hinged Door and Window Door Enclosures



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INLINE EMC, TYPE 1

- Large perimeter body opening
- Mounting holes in back of body for direct mounting or optional external mounting brackets
- Bonding provision cover and body
- Metalized non-woven fabric EMI/RFI material covering UL94HP-rated urethane foam gasket
- Plated interior surfaces for gasket contact areas and conduit entries
- Hardware kit includes panel mounting screws, grounding hardware and sealing washers for wall-mounting holes
- Installation instructions
- Shielding effectiveness greater than 50 dB at 1 GHz

INLINE EMC Screw-Cover Enclosures

- Captivated cover screws with sealing bushings
- Integral gasket compression stops

INLINE EMC Hinged-Door Enclosures

- Door opens 180 degrees
- Removable hinged door
- Self-grounding, slotted quarter-turn latch

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirement.

UL 508A Listed; Type 1; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 1; File No. E61997

NEMA/EEMAC Type 1
IEC 60529, IP40

APPLICATION

INLINE EMC Enclosures provide style, functionality and EMC protection. The flush body-to-door design can be secured by either screws or quarter-turn latches, making these enclosures an excellent choice for applications requiring an aesthetic appearance.

SPECIFICATIONS

- 16 gauge (1.4-mm) steel
- Seams continuously welded and ground smooth
- External formed body flange channels away liquids

FINISH

Textured RAL 7035 light-gray polyester powder paint inside and out over a plated interior

ACCESSORIES

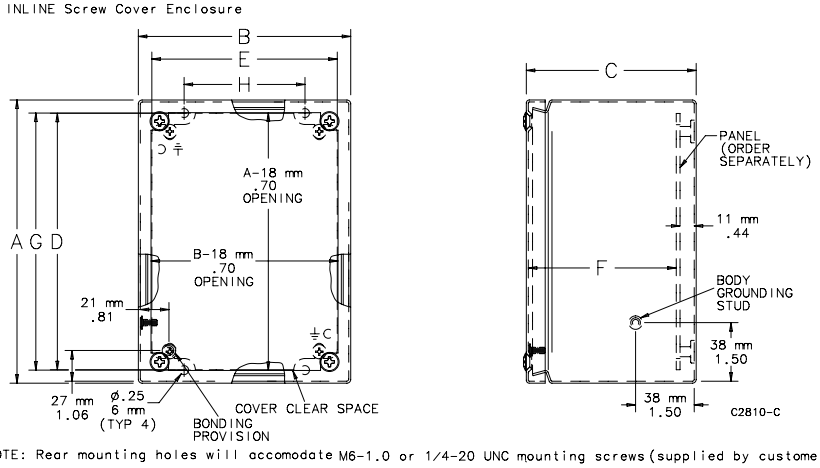
Panel, page 1438
Mounting Bracket Kit, Plated and 316, page 1438
Lock Inserts, page 1438
Wing Knob Latch, page 1438
Grounding Kit, page 1439
DIN3 Type Rails, page 1439
DIN Rail or Panel-Mounting Brackets, page 1439

BULLETIN: A53

Standard Product **INLINE Screw-Cover EMC Enclosures**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.
LSC151512EMC	150 x 150 x 120 5.91 x 5.91 x 4.72	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.20 x 3.35	105 4.13
LSC201512EMC	200 x 150 x 120 7.87 x 5.91 x 4.72	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.17 x 3.35	105 4.13
LSC252015EMC	250 x 200 x 150 9.84 x 7.87 x 5.91	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.13 x 5.31	135 5.31
LSC302515EMC	300 x 250 x 150 11.81 x 9.84 x 5.91	LP3025	LP3025G	281 x 231 11.06 x 9.09	282 x 185 11.10 x 7.28	135 5.31
LSC353020EMC	350 x 300 x 200 13.78 x 11.81 x 7.87	LP3530	LP3530G	331 x 281 13.03 x 11.06	332 x 235 13.07 x 9.25	185 7.28

Purchase panels separately.

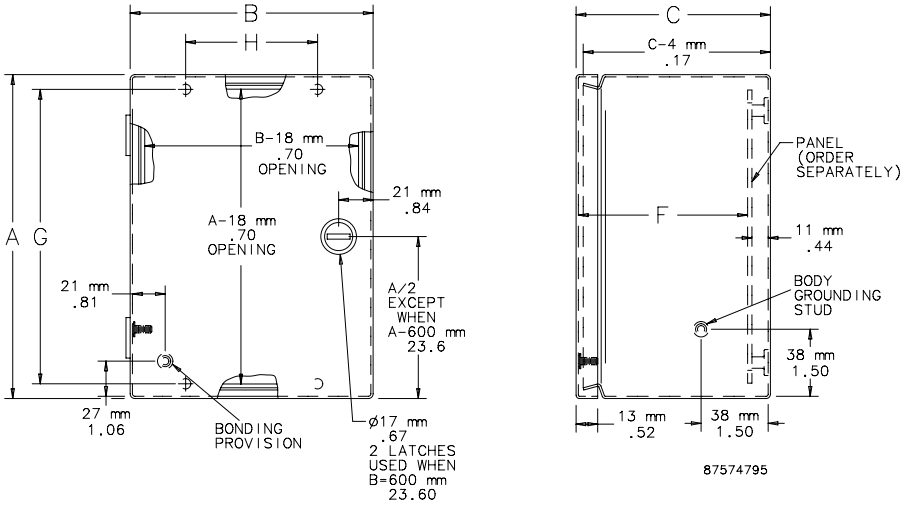


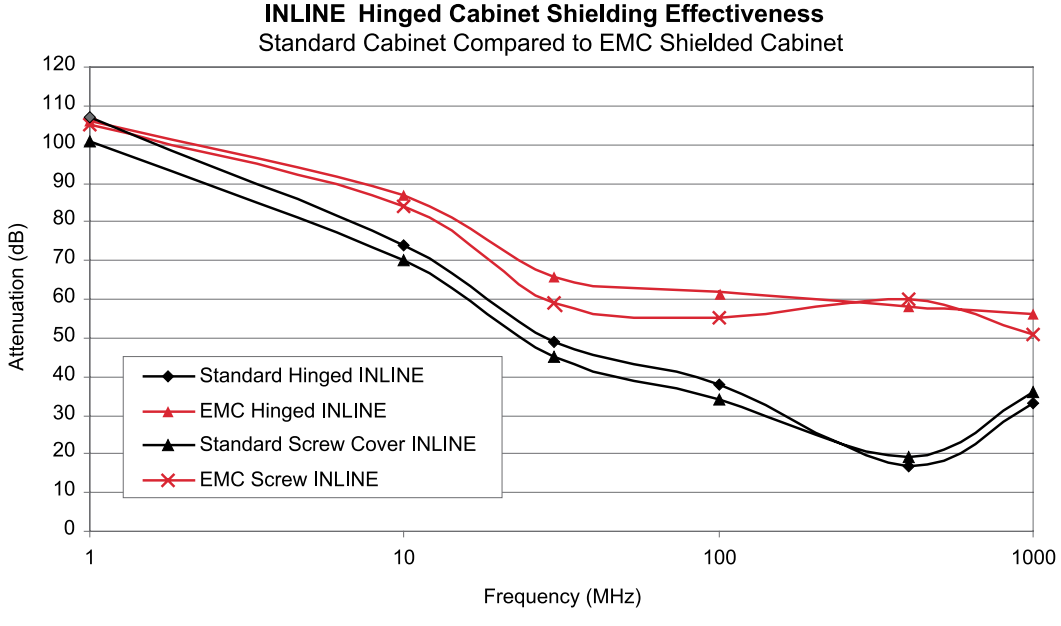
NOTE: Rear mounting holes will accomodate M6-1.0 or 1/4-20 UNC mounting screws (supplied by customer)

Standard Product **INLINE Hinged-Door EMC Enclosures**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.
LHC151512EMC	150 x 150 x 120 5.91 x 5.91 x 4.72	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.20 x 3.35	105 4.13
LHC201512EMC	200 x 150 x 120 7.87 x 5.91 x 4.72	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.17 x 3.35	105 4.13
LHC252015EMC	250 x 200 x 150 9.84 x 7.87 x 5.91	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.13 x 5.31	135 5.31
LHC302515EMC	300 x 250 x 150 11.81 x 9.84 x 5.91	LP3025	LP3025G	281 x 231 11.06 x 9.09	282 x 185 11.10 x 7.28	135 5.31
LHC353020EMC	350 x 300 x 200 13.78 x 11.81 x 7.87	LP3530	LP3530G	331 x 281 13.03 x 11.06	332 x 235 13.07 x 9.25	185 7.28

Purchase panels separately.





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INLINE LANDSCAPE, TYPE 4 AND 12

APPLICATION

When applications require mounting electrical components the full width of an enclosure, the landscape orientation of this aesthetic INLINE Enclosure makes it possible. Full-width mounting brackets can be drilled anywhere along their length, providing maximum mounting flexibility.

SPECIFICATIONS

- Metric dimensions
- 16 gauge steel
- Seams continuously welded and ground smooth
- External formed body flange channels away liquids
- Large perimeter body opening
- External welded-on mounting brackets for easy installation
- Seamless foam-in-place gasket
- Bonding provision on cover and door
- Hardware kit includes panel mounting screws and grounding hardware
- Removable hinged door
- Self-grounding, slotted quarter-turn latches
- Door opens 180 degrees
- Window door models include flush-mounted 4.8-mm (3/16-in.) clear polycarbonate window

FINISH

Textured light-gray RAL 7035 polyester powder coating inside and out

ACCESSORIES

Panel, page 1438
Mounting Bracket Kit, Plated and 316, page 1438
Lock Inserts, page 1438
Wing Knob Latch, page 1438
Grounding Kit, page 1439
DIN3 Type Rails, page 1439
DIN Rail or Panel-Mounting Brackets, page 1439

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A54

INDUSTRY STANDARDS

Solid Door Enclosures:

UL 508A Listed; Type 3, 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3, 4, 12; File No. E61997

NEMA/EEMAC Type 3, 4, 12
CSA File Number 42186: Type 4, 12
IEC 60529, IP66

Window Door Enclosures:

UL 508A Listed; Type 3, 4, 12; File No. E61997

NEMA/EEMAC Type 12
CSA File Number 42186: Type 3, 4, 12
IEC 60529, IP66

Standard Product **Hinged Solid Door**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Mounting Studs J mm/in.	Clear Space Above Panel mm/in.
LHC233116	230 x 310 x 155 9.06 x 12.20 x 6.10	LP2331	LP2331G	265 10.45	140 5.51
LHC234616	230 x 460 x 155 9.06 x 18.11 x 6.10	LP2346	LP2346G	416 16.36	140 5.51
LHC236016	230 x 600 x 155 9.06 x 23.62 x 6.10	LP2360	LP2360G	556 21.88	140 5.51
LHC237716	230 x 770 x 155 9.06 x 30.31 x 6.10	LP2377	LP2377G	726 28.57	140 5.51
LHC239316	230 x 930 x 155 9.06 x 36.61 x 6.10	LP2393	LP2393G	881 34.67	140 5.51

Enclosures are hinged on "B" side.

Purchase panels separately.

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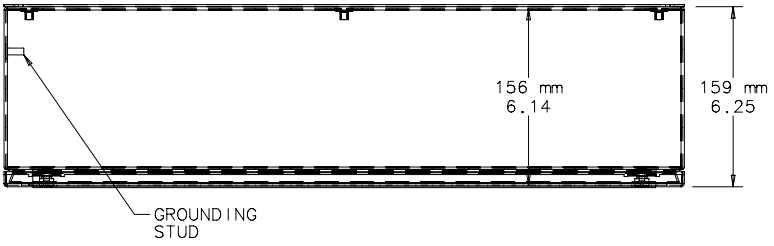
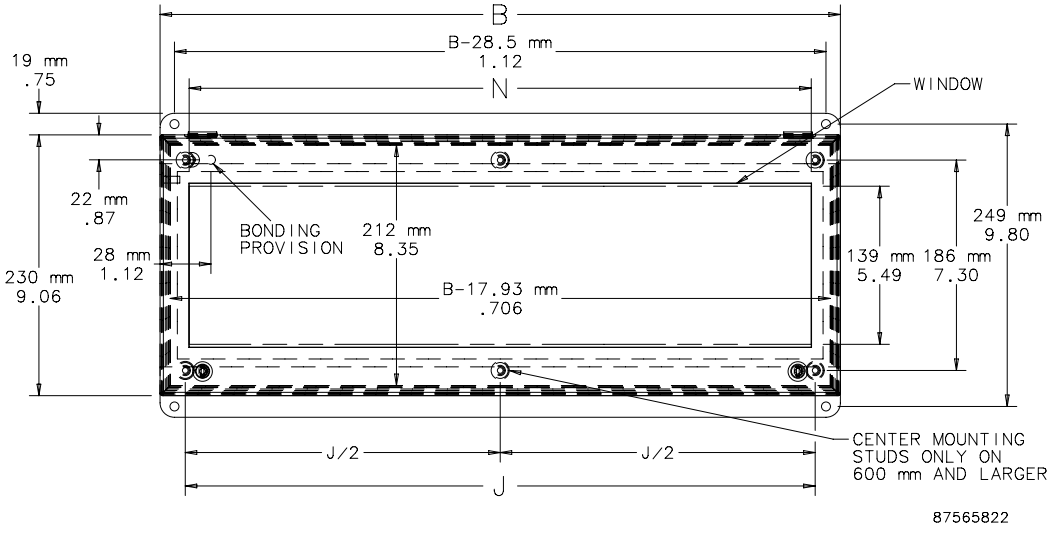
Standard Product **Hinged Window Door**

Catalog Number	AxBxC mm/in.	Panel	Conductive Panel	Window Size N mm/in.	Mounting Studs J mm/in.	Clear Space Above Panel mm/in.
LWC233116	230 x 310 x 155 9.06 x 12.20 x 6.10	LP2331	LP2331G	259 10.20	265 10.45	140 5.51
LWC234616	230 x 460 x 155 9.06 x 18.11 x 6.10	LP2346	LP2346G	409 16.11	416 16.36	140 5.51
LWC236016	230 x 600 x 155 9.06 x 23.62 x 6.10	LP2360	LP2360G	549 21.62	556 21.88	140 5.51
LWC237716	230 x 770 x 155 9.06 x 30.31 x 6.10	LP2377	LP2377G	719 28.31	726 28.57	140 5.51
LWC239316	230 x 930 x 155 9.06 x 36.61 x 6.10	LP2393	LP2393G	874 34.42	881 34.67	140 5.51





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FUSION G7, TYPE 4 AND 12

INDUSTRY STANDARDS

Wall-mounting brackets required to maintain UL/CSA external mounting requirement.

UL 508A Listed; Type 4, 12; File No. 61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. 61997

NEMA/EEMAC Type 4, 12, 13
CSA File No. 42186: Type 4, 12
IEC 60529, IP66

APPLICATION

Innovative, metric-dimensioned wall-mount enclosure designed to house and protect electrical and electronic components in industrial environments. Provides traditional enclosure functionality with scalable internal component mounting capability using the optional internal mounting system and accessory components.

SPECIFICATIONS

- 1.2-mm (18 gauge), 1.5-mm (16 gauge) and 2-mm (14 gauge) steel
- Seamless foam-in-place gasket
- Reversible door with sealed hinges and hinge brackets
- Gland plate(s) for enclosure bottom
- Bonding provision on door; grounding studs (2) on body
- Full-height galvanized steel back panel included
- External formed 90-degree body flange channels away liquids
- Three-point latching on enclosures 1000-mm high and taller
- Door alignment device on doors with 3-point latching and 800 mm or wider
- Pre-cut gland plate opening(s) in enclosure bottom
- Quarter-turn latch(es) with 3-mm double-bit insert
- Corner-formed door
- Simple, easy-to-remove and install hinge pins with captivation clip
- High-torque threadless studs and fasteners on door
- Wide assortment of user-friendly internal accessories to increase internal mounting area capability and design flexibility
- Hardware kit includes grounding and sealing hardware
- Hinged on right side
- Installation instruction provided

FINISH

RAL 7035 textured, light-gray polyester powder paint inside and out.
Panel is galvanized.

ACCESSORIES

Gland Plate, page 63
Full-Height Back Panel, page 63
Half-Height Back Panel, page 64
Half-Height Side Panel, page 65
Side-Mount Accessory Rail, page 66
Front and Back Vertical Accessory Mounting Rails, page 67
Padlock Handles, page 68
Aluminum Swing Panel, page 69
FUSION G7 Door Stop Kit, page 70

BULLETIN: A4G

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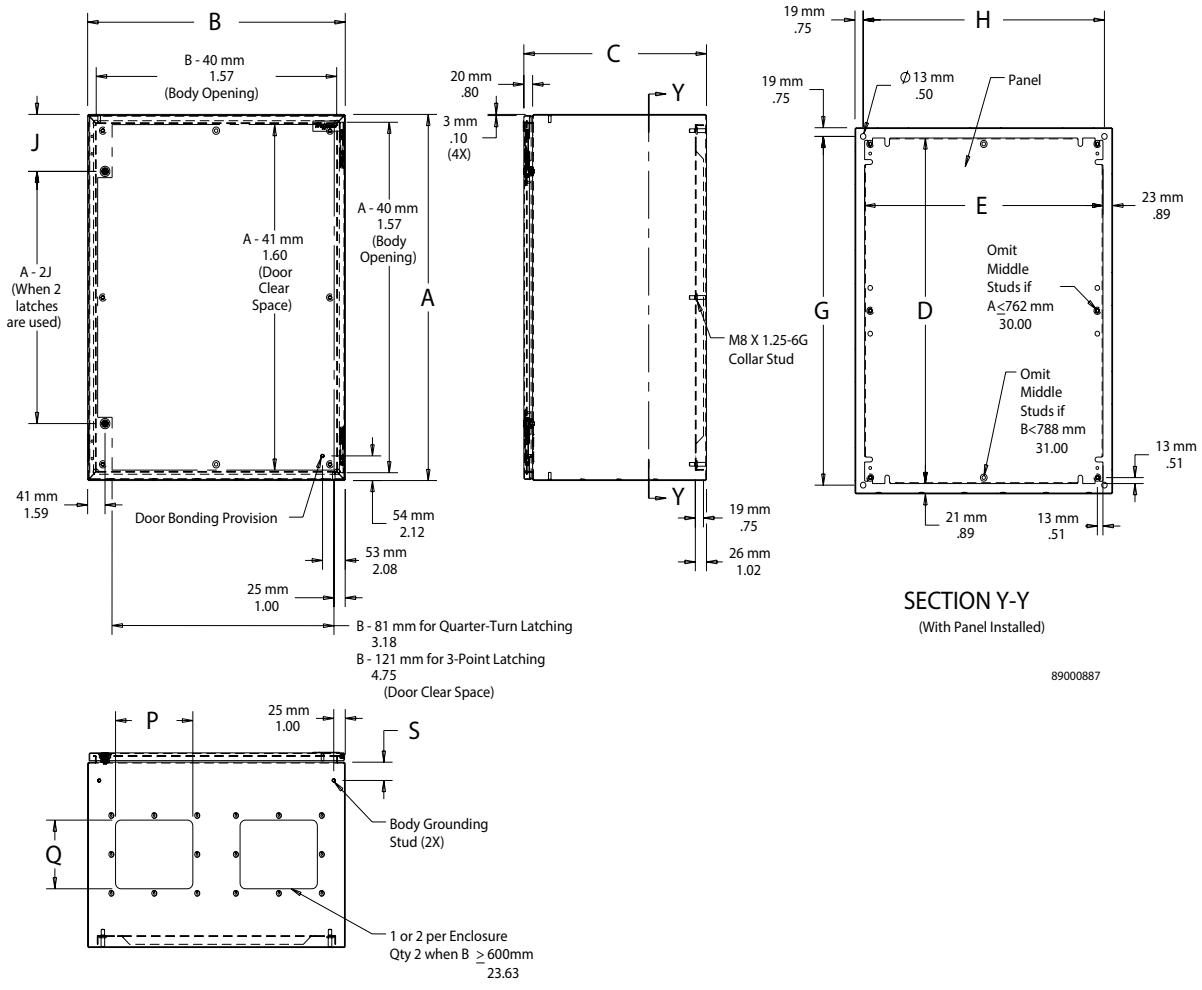
Standard Product

Catalog Number	AxBxC mm/in.	Body Thickness mm	Body Thickness Gauge	Door Thickness mm	Door Thickness Gauge	Latch Type	D x E mm/in.	G x H mm/in.	J mm/in.	P x Q mm/in.	S mm/in.
G300300225G	300 x 300 x 225 11.81 x 11.81 x 8.86	1.2	18	1.2	18	Quarter-turn	255 x 255 10.04 x 10.04	262 x 262 10.31 x 10.31	150 5.91	180 x 90 7.09 x 3.54	39 1.55
G300400200G	300 x 400 x 200 11.81 x 15.75 x 7.87	1.2	18	1.2	18	Quarter-turn	255 x 355 10.04 x 13.98	262 x 362 10.31 x 14.25	150 5.91	280 x 90 11.02 x 3.54	39 1.55
G400300150	400 x 300 x 150 15.75 x 11.81 x 5.91	1.2	18	1.2	18	Quarter-turn	355 x 255 13.98 x 10.04	362 x 262 14.25 x 10.31	200 7.87	— —	39 1.55
G400300225G	400 x 300 x 225 15.75 x 11.81 x 8.86	1.2	18	1.2	18	Quarter-turn	355 x 255 13.98 x 10.04	362 x 262 14.25 x 10.31	200 7.87	180 x 90 7.09 x 3.54	39 1.55
G400400225G	400 x 400 x 225 15.75 x 15.75 x 8.86	1.2	18	1.2	18	Quarter-turn	355 x 355 13.98 x 13.98	362 x 362 14.25 x 14.25	200 7.87	280 x 90 11.02 x 3.54	39 1.55
G400600225G	400 x 600 x 225 15.75 x 23.62 x 8.86	1.2	18	1.2	18	Quarter-turn	355 x 555 13.98 x 21.85	362 x 562 14.25 x 22.13	200 7.87	180 x 90 7.09 x 3.54	39 1.55
G500400225G	500 x 400 x 225 19.69 x 15.75 x 8.86	1.2	18	1.2	18	Quarter-turn	455 x 355 17.91 x 13.98	462 x 362 18.19 x 14.25	250 9.84	280 x 90 11.02 x 3.54	39 1.55
G500500225G	500 x 500 x 225 19.69 x 19.69 x 8.86	1.2	18	1.2	18	Quarter-turn	455 x 455 17.91 x 17.91	462 x 462 18.19 x 18.19	250 9.84	280 x 90 11.02 x 3.54	39 1.55
G500500300G	500 x 500 x 300 19.69 x 19.69 x 11.81	1.5	16	1.2	18	Quarter-turn	455 x 455 17.91 x 17.91	462 x 462 18.19 x 18.19	250 9.84	280 x 150 11.02 x 5.91	39 1.55
G600400225G	600 x 400 x 225 23.62 x 15.75 x 8.86	1.2	18	1.2	18	Quarter-turn	555 x 355 21.85 x 13.98	562 x 362 22.13 x 14.25	300 11.81	280 x 90 11.02 x 3.54	39 1.55
G600500200G	600 x 500 x 200 23.62 x 19.69 x 7.87	1.2	18	1.5	16	Quarter-turn	555 x 455 21.85 x 17.91	562 x 462 22.13 x 18.19	300 11.81	280 x 90 11.02 x 3.54	39 1.55
G600500300G	600 x 500 x 300 23.62 x 19.69 x 11.81	1.5	16	1.5	16	Quarter-turn	555 x 455 21.85 x 17.91	562 x 462 22.13 x 18.19	300 11.81	280 x 150 11.02 x 5.91	39 1.55
G600600225G	600 x 600 x 225 23.62 x 23.62 x 8.86	1.5	16	1.5	16	Quarter-turn	555 x 555 21.85 x 21.85	562 x 562 22.13 x 22.13	125 4.92	180 x 90 7.09 x 3.54	39 1.55
G600600325G	600 x 600 x 325 23.62 x 23.62 x 12.80	1.5	16	1.5	16	Quarter-turn	555 x 555 21.85 x 21.85	562 x 562 22.13 x 22.13	125 4.92	180 x 150 7.09 x 5.91	39 1.55
G600600400G	600 x 600 x 400 23.62 x 23.62 x 15.75	2.0	14	1.5	16	Quarter-turn	555 x 555 21.85 x 21.85	562 x 562 22.13 x 22.13	125 4.92	180 x 150 7.09 x 5.91	39 1.55
G600800300G	600 x 800 x 300 23.62 x 31.50 x 11.81	1.5	16	1.5	16	Quarter-turn	555 x 755 21.85 x 29.72	562 x 762 22.13 x 30.00	125 4.92	180 x 150 7.09 x 5.91	102 4.02
G700500250G	700 x 500 x 250 27.56 x 19.69 x 9.84	1.5	16	1.5	16	Quarter-turn	655 x 455 25.79 x 17.91	662 x 462 26.06 x 18.19	125 4.92	280 x 90 11.02 x 3.54	39 1.55
G800600225G	800 x 600 x 225 31.50 x 23.62 x 8.86	1.5	16	1.5	16	Quarter-turn	755 x 555 29.72 x 21.85	762 x 562 30.00 x 22.13	125 4.92	180 x 90 7.09 x 3.54	39 1.55
G800600325G	800 x 600 x 325 31.50 x 23.62 x 12.80	1.5	16	1.5	16	Quarter-turn	755 x 555 29.72 x 21.85	762 x 562 30.00 x 22.13	125 4.92	180 x 150 7.09 x 5.91	39 1.55
G800600425G	800 x 600 x 425 31.50 x 23.62 x 16.73	2.0	14	1.5	16	Quarter-turn	755 x 555 29.72 x 21.85	762 x 562 30.00 x 22.13	125 4.92	180 x 150 7.09 x 5.91	39 1.55
G800800225G	800 x 800 x 225 31.50 x 31.50 x 8.86	1.5	16	2.0	14	Quarter-turn	755 x 755 29.72 x 29.72	762 x 762 30.00 x 30.00	125 4.92	280 x 90 11.02 x 3.54	39 1.55
G800800300G	800 x 800 x 300 31.50 x 31.50 x 11.81	2.0	14	2.0	14	Quarter-turn	755 x 755 29.72 x 29.72	762 x 762 30.00 x 30.00	125 4.92	180 x 150 7.09 x 5.91	102 4.02
G1000600250G	1000 x 600 x 250 39.37 x 23.62 x 9.84	2.0	14	2.0	14	3-pt. Quarter-turn	955 x 555 37.60 x 21.85	962 x 562 37.87 x 22.13	500 19.68	180 x 90 7.09 x 3.54	39 1.55
G1000800300G	1000 x 800 x 300 39.37 x 31.50 x 11.81	2.0	14	2.0	14	3-pt. Quarter-turn	955 x 755 37.60 x 29.72	962 x 762 37.87 x 30.00	500 19.68	180 x 150 7.09 x 5.91	102 4.02
G1000800400G	1000 x 800 x 400 39.37 x 31.50 x 15.75	2.0	14	2.0	14	3-pt. Quarter-turn	955 x 755 37.60 x 29.72	962 x 762 37.87 x 30.00	500 19.68	180 x 150 7.09 x 5.91	102 4.02
G1200800300G	1200 x 800 x 300 47.24 x 31.50 x 11.81	2.0	14	2.0	14	3-pt. Quarter-turn	1155 x 755 45.47 x 29.72	1162 x 762 45.75 x 30.00	600 23.62	180 x 150 7.09 x 5.91	102 4.02
G1200800400G	1200 x 800 x 400 47.24 x 31.50 x 15.75	2.0	14	2.0	14	3-pt. Quarter-turn	1155 x 755 45.47 x 29.72	1162 x 762 45.75 x 30.00	600 23.62	180 x 150 7.09 x 5.91	102 4.02
G1200900325G	1200 x 900 x 325 47.24 x 35.43 x 12.80	2.0	14	2.0	14	3-pt. Quarter-turn	1155 x 855 45.47 x 33.66	1162 x 862 45.75 x 33.94	600 23.62	280 x 150 11.02 x 5.91	102 4.02
G1500900325G	1500 x 900 x 325 59.06 x 35.43 x 12.80	2.0	14	2.0	14	3-pt. Quarter-turn	1455 x 855 57.28 x 33.66	1462 x 862 57.57 x 33.94	750 29.53	280 x 150 11.02 x 5.91	102 4.02
G1500900425G	1500 x 900 x 425 59.06 x 35.43 x 16.73	2.0	14	2.0	14	3-pt. Quarter-turn	1455 x 855 57.28 x 33.66	1462 x 862 57.57 x 33.94	750 29.53	280 x 150 11.02 x 5.91	102 4.02

G400300150 does not have a gland plate.



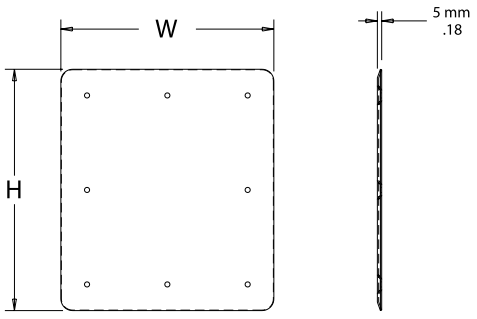
Accessory Selection Matrix

FUSION G7	Full Back Panel	Half Back Panel	Full Side Panel	Half Side Panel	Side-Mount Accessory Rail	Horizontal Separator	100-mm Plinth Base	Aluminum Swing Panel	Front and Back Vertical Accessory Mounting Rails	Top/Bottom Mounting Brackets
G3003002256	G300P300	G300P300H	G300SMP225	G300SMP225H	G50SMR225	GHS300225	—	—	GAMR300	GTBMTBKT300
G3004002006	G400P300	G300P400H	G300SMP200	G300SMP200H	G50SMR200	GHS400200	—	—	GAMR300	GTBMTBKT400
G4003001506	G400P300	G400P300H	G400SMP150	G400SMP150H	G50SMR150	—	—	—	GAMR400	GTBMTBKT300
G4003002256	G400P300	G400P300H	G400SMP225	G400SMP225H	G50SMR225	GHS300225	—	GSP400300A	GAMR400	GTBMTBKT300
G4004002256	G400P400	G400P400H	G400SMP225	G400SMP225H	G50SMR225	GHS400225	—	—	GAMR400	GTBMTBKT400
G4006002256	G600P400	G400P600H	G400SMP225	G400SMP225H	G50SMR225	GHS600225	—	—	GAMR400	GTBMTBKT600
G5004002256	G500P400	G500P400H	G500SMP225	G500SMP225H	G50SMR225	GHS400225	—	GSP500400A	GAMR500	GTBMTBKT400
G5005002256	G500P500	G500P500H	G500SMP225	G500SMP225H	G50SMR225	GHS500225	—	GSP500500A	GAMR500	GTBMTBKT500
G5005003006	G500P500	G500P500H	G500SMP300	G500SMP300H	G50SMR300	GHS500300	—	GSP500500A	GAMR500	GTBMTBKT500
G6004002256	G600P400	G600P400H	G600SMP225	G600SMP225H	G50SMR225	GHS400225	—	—	GAMR600	GTBMTBKT400
G6005002006	G600P500	G600P500H	G600SMP200	G600SMP200H	G50SMR200	GHS500200	—	GSP600500A	GAMR600	GTBMTBKT500
G6005003006	G600P500	G600P500H	G600SMP300	G600SMP300H	G50SMR300	GHS500300	—	GSP600500A	GAMR600	GTBMTBKT500
G6006002256	G600P600	G600P600H	G600SMP225	G600SMP225H	G50SMR225	GHS600225	—	GSP600600A	GAMR600	GTBMTBKT600
G6006003256	G600P600	G600P600H	G600SMP325	G600SMP325H	G50SMR325	GHS600325	—	GSP600600A	GAMR600	GTBMTBKT600
G6006004006	G600P600	G600P600H	G600SMP400	G600SMP400H	G50SMR400	GHS600400	—	GSP600600A	GAMR600	GTBMTBKT600
G6008003006	G800P600	G600P800H	G600SMP300	G600SMP300H	G50SMR300	GHS800300	GPB800300	—	GAMR600	GTBMTBKT800
G7005002506	G700P500	G700P500H	G700SMP250	G700SMP250H	G50SMR250	GHS500250	—	GSP700500A	GAMR700	GTBMTBKT500
G8006002256	G800P600	G800P600H	G800SMP225	G800SMP225H	G50SMR225	GHS600225	—	GSP800600A	GAMR800	GTBMTBKT600
G8006003256	G800P600	G800P600H	G800SMP325	G800SMP325H	G50SMR325	GHS600325	—	GSP800600A	GAMR800	GTBMTBKT600
G8006004256	G800P600	G800P600H	G800SMP425	G800SMP425H	G50SMR425	—	—	GSP800600A	GAMR800	GTBMTBKT600
G8008002256	G800P800	G800P800H	G800SMP225	G800SMP225H	G50SMR225	—	—	—	GAMR800	GTBMTBKT800
G8008003006	G800P800	G800P800H	G800SMP300	G800SMP300H	G50SMR300	GHS800300	GPB800300	—	GAMR800	GTBMTBKT800
G10006002506	G1000P600	G1000P600H	G1000SMP250	G1000SMP250H	G50SMR250	GHS600250	—	GSP1000600A	GAMR1000	GTBMTBKT600
G10008003006	G1000P800	G1000P800H	G1000SMP300	G1000SMP300H	G50SMR300	GHS800300	GPB800300	GSP1000800A	GAMR1000	GTBMTBKT800
G10008004006	G1000P800	G1000P800H	G1000SMP400	G1000SMP400H	G50SMR400	GHS800400	GPB800400	GSP1000800A	GAMR1000	GTBMTBKT800
G12008003006	G1200P800	G1200P800H	G1200SMP300	G1200SMP300H	G50SMR300	GHS800300	GPB800300	GSP1200800A	GAMR1200	GTBMTBKT800
G12008004006	G1200P800	G1200P800H	G1200SMP400	G1200SMP400H	G50SMR400	GHS800400	GPB800400	GSP1200800A	GAMR1200	GTBMTBKT800
G12009003256	G1200P900	G1200P900H	G1200SMP325	G1200SMP325H	G50SMR325	GHS900325	GPB900325	GSP1200900A	GAMR1200	GTBMTBKT900
G15009003256	G1500P900	G1500P900H	G1500SMP325	G1500SMP325H	G50SMR325	GHS900325	GPB900325	GSP1500900A	GAMR1500	GTBMTBKT900
G15009004256	G1500P900	G1500P900H	G1500SMP425	G1500SMP425H	G50SMR425	GHS900425	GPB900425	GSP1500900A	GAMR1500	GTBMTBKT900

GLAND PLATE

Constructed of 1.5-mm thick (16 gauge) steel and designed for use with FUSION G7 enclosures. Provides a removable cable egress and entry plate while maintaining IP/UL/CSA integrity of the enclosure. RAL 7035 textured, light-gray polyester powder paint finish. Foam-in-place gasket, fasteners and instructions provided. Maintains IP66/UL/CSA Type 4 and 12 when properly installed on a Hoffman enclosure.

BULLETIN: A4GY



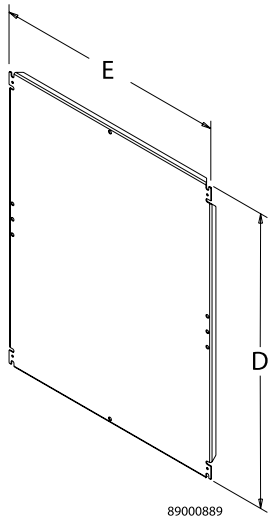
89000888

Catalog Number	Cutout Size (mm)	Cutout Size (in.)	W x H (mm)	W x H (in.)
GGP90180	90 x 180	3.54 x 7.09	165 x 255	6.50 x 10.04
GGP90280	90 x 280	3.54 x 11.02	165 x 355	6.50 x 13.98
GGP150180	150 x 180	5.91 x 7.09	225 x 255	8.86 x 10.04
GGP150280	150 x 280	5.91 x 11.02	225 x 355	8.86 x 13.98

FULL-HEIGHT BACK PANEL

Galvanized steel full-height panels. See table for thickness.
M8 panel mounting nuts provided with 50-mm front-to-back side-mount accessory rails and side-mount accessory rail brackets.

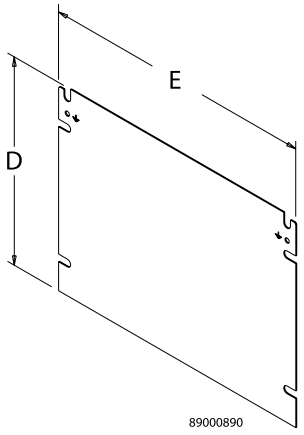
BULLETIN: A4GY



89000889

Catalog Number	D x E (mm)	D x E (in.)	Thickness (mm)	Thickness (Gauge)	Fits A x B (mm)	Fits A x B (in.)
G300P300	255 x 255	10.04 x 10.04	1.5	16	300 x 300	11.81 x 11.81
G400P300	355 x 255	13.98 x 10.04	1.5	16	400 x 300 or 300 x 400	15.75 x 11.81 or 11.81 x 15.75
G400P400	355 x 355	13.98 x 13.98	1.5	16	400 x 400	15.75 x 15.75
G500P400	455 x 355	17.91 x 13.98	1.5	16	500 x 400	19.68 x 15.75
G600P400	555 x 355	21.85 x 13.98	1.5	16	600 x 400 or 400 x 600	23.62 x 15.75 or 15.75 x 23.62
G500P500	455 x 455	17.91 x 17.91	1.5	16	500 x 500	19.68 x 19.68
G600P500	555 x 455	21.85 x 17.91	1.5	16	600 x 500	23.62 x 19.68
G700P500	655 x 455	25.79 x 17.91	2.0	14	700 x 500	27.56 x 19.68
G600P600	555 x 555	21.85 x 21.85	2.0	14	600 x 600	23.62 x 23.62
G800P600	755 x 555	29.72 x 21.85	2.0	14	800 x 600 or 600 x 800	31.50 x 23.62 or 23.62 x 31.50
G1000P600	955 x 555	37.60 x 21.85	2.5	12	1000 x 600	39.37 x 23.62
G800P800	755 x 755	29.72 x 29.72	2.5	12	800 x 800	31.50 x 31.50
G1000P800	955 x 755	37.60 x 29.72	2.5	12	1000 x 800	39.37 x 31.50
G1200P800	1155 x 755	45.47 x 29.72	2.5	12	1200 x 800	47.24 x 31.50
G1200P900	1155 x 855	45.47 x 33.66	2.5	12	1200 x 900	47.24 x 35.43
G1500P900	1455 x 855	57.28 x 33.66	2.5	12	1500 x 900	59.05 x 35.43

HALF-HEIGHT BACK PANEL

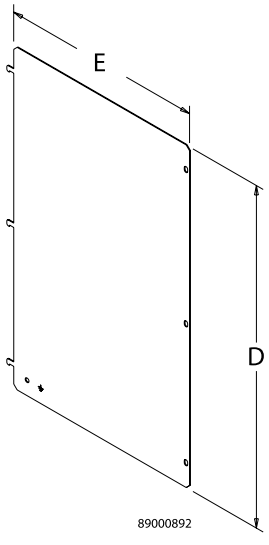


Galvanized steel half-height back panels. See table for thickness.
M8 panel mounting nuts provided with 50-mm front-to-back side-mount accessory rails and side-mount accessory rail brackets.

BULLETIN: A4GY

Catalog Number	D x E (mm)	D x E (in.)	Thickness (mm)	Thickness (Gauge)	Fits A x B (mm)	Fits A x B (in.)
G300P300H	120 x 255	4.72 x 10.04	1.5	16	300 x 300	11.81 x 11.81
G300P400H	120 x 355	4.72 x 13.98	1.5	16	300 x 400	11.81 x 15.75
G400P300H	170 x 255	6.69 x 10.01	1.5	16	400 x 300	15.75 x 11.81
G400P400H	170 x 355	6.69 x 13.98	1.5	16	400 x 400	15.75 x 15.75
G400P600H	170 x 555	6.69 x 21.85	1.5	16	400 x 600	15.75 x 23.62
G500P400H	220 x 355	8.66 x 13.98	1.5	16	500 x 400	19.68 x 15.75
G500P500H	220 x 455	8.66 x 17.91	1.5	16	500 x 500	19.68 x 19.68
G600P400H	270 x 355	10.63 x 13.98	1.5	16	600 x 400	23.62 x 15.75
G600P500H	270 x 455	10.63 x 17.91	1.5	16	600 x 500	23.62 x 19.68
G600P600H	270 x 555	10.63 x 21.85	1.5	16	600 x 600	23.62 x 23.62
G600P800H	270 x 755	10.63 x 29.72	1.5	16	600 x 800	23.62 x 32.50
G700P500H	320 x 455	12.60 x 17.91	1.5	16	700 x 500	27.56 x 19.68
G800P600H	370 x 555	14.57 x 21.85	1.5	16	800 x 600	31.50 x 23.62
G800P800H	370 x 755	14.57 x 29.72	1.5	16	800 x 800	32.50 x 32.50
G1000P600H	470 x 555	18.50 x 21.85	1.5	16	1000 x 600	39.37 x 23.62
G1000P800H	470 x 755	18.50 x 29.72	2.0	14	1000 x 800	39.37 x 31.50
G1200P800H	570 x 755	22.44 x 29.72	2.0	14	1200 x 800	47.24 x 31.50
G1200P900H	570 x 855	22.44 x 33.66	2.0	14	1200 x 900	47.24 x 35.43
G1500P900H	720 x 855	28.35 x 33.66	2.0	14	1500 x 900	59.05 x 35.43

FULL-HEIGHT SIDE PANEL



Galvanized steel full-height side panels. Panel mounting hardware is furnished with the panel. See table for thickness.

BULLETIN: A4GY

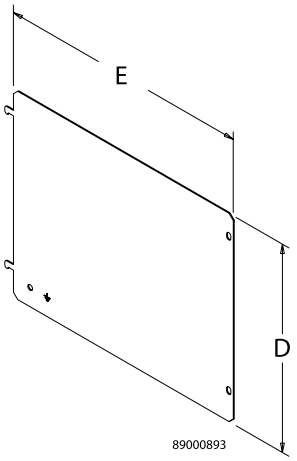
Catalog Number	D x E (mm)	D x E (in.)	Thickness (mm)	Thickness (Gauge)	Fits A x C (mm)	Fits A x C (in.)
G300SMP200	255 x 142	10.04 x 5.59	1.5	16	300 x 200	11.71 x 7.87
G300SMP225	255 x 167	10.01 x 6.57	1.5	16	300 x 255	11.71 x 10.04
G400SMP150	355 x 92	13.98 x 3.62	1.5	16	400 x 150	15.75 x 5.91
G400SMP225	355 x 167	13.98 x 6.57	1.5	16	400 x 225	15.75 x 10.04
G500SMP225	455 x 167	17.91 x 6.57	1.5	16	500 x 255	19.68 x 10.04

Catalog Number	D x E (mm)	D x E (in.)	Thickness (mm)	Thickness (Gauge)	Fits A x C (mm)	Fits A x C (in.)
G500SMP300	455 x 242	17.91 x 9.53	1.5	16	500 x 300	19.68 x 11.71
G600SMP200	555 x 142	21.85 x 5.59	1.5	16	600 x 200	23.62 x 7.87
G600SMP225	555 x 167	21.85 x 6.57	1.5	16	600 x 225	23.62 x 10.04
G600SMP300	555 x 242	21.85 x 9.53	1.5	16	600 x 300	23.62 x 11.71
G600SMP325	555 x 267	21.85 x 10.51	1.5	16	600 x 325	23.62 x 12.80
G600SMP400	555 x 342	21.85 x 13.46	1.5	16	600 x 400	23.62 x 15.75
G700SMP250	655 x 192	25.79 x 7.56	1.5	16	700 x 250	27.56 x 9.84
G800SMP225	755 x 167	29.72 x 6.57	1.5	16	800 x 225	31.50 x 10.04
G800SMP300	755 x 242	29.72 x 9.53	1.5	16	800 x 300	31.50 x 11.71
G800SMP325	755 x 267	29.72 x 10.51	1.5	16	800 x 325	31.50 x 12.80
G800SMP425	755 x 367	29.72 x 14.45	1.5	16	800 x 425	31.50 x 16.73
G1000SMP250	955 x 192	37.60 x 7.56	1.5	16	1000 x 250	39.37 x 9.87
G1000SMP300	955 x 242	67.60 x 9.53	1.5	16	1000 x 300	39.37 x 11.71
G1000SMP400	955 x 342	37.60 x 13.46	1.5	16	1000 x 400	39.37 x 15.75
G1200SMP300	1155 x 242	45.47 x 9.53	1.5	16	1200 x 300	47.24 x 11.71
G1200SMP325	1155 x 267	45.47 x 10.51	1.5	16	1200 x 325	47.24 x 12.80
G1200SMP400	1155 x 342	45.47 x 13.46	1.5	16	1200 x 400	47.24 x 15.75
G1500SMP325	1455 x 267	57.28 x 10.51	1.5	16	1500 x 325	59.05 x 12.80
G1500SMP425	1455 x 367	57.28 x 14.45	1.5	16	1500 x 425	59.05 x 16.73

HALF-HEIGHT SIDE PANEL

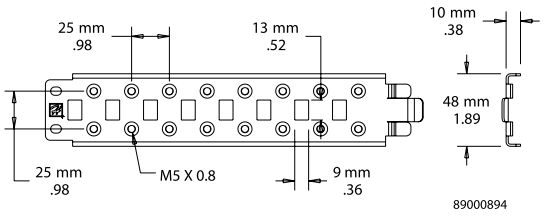
Galvanized steel half-height side panels are 1.5-mm thick (16 gauge). Panel mounting hardware is furnished with the panel.

BULLETIN: A4GY



Catalog Number	D x E (mm)	D x E (in.)	Fits A x C (mm)	Fits A x C (in.)
G300SMP200H	120 x 142	4.72 x 5.59	300 x 200	11.81 x 7.87
G300SMP225H	120 x 167	4.72 x 6.57	300 x 225	11.81 x 8.86
G400SMP150H	170 x 92	6.69 x 3.62	400 x 150	15.75 x 5.91
G400SMP225H	170 x 167	6.69 x 6.57	400 x 225	15.75 x 8.86
G500SMP225H	220 x 167	8.66 x 6.57	500 x 225	19.68 x 8.86
G500SMP300H	220 x 242	8.66 x 9.53	500 x 300	19.68 x 11.81
G600SMP200H	270 x 142	10.63 x 5.59	600 x 200	23.62 x 7.87
G600SMP225H	270 x 167	10.63 x 6.57	600 x 225	23.62 x 8.86
G600SMP300H	270 x 242	10.63 x 9.53	600 x 300	23.62 x 11.81
G600SMP325H	270 x 267	10.63 x 10.51	300 x 325	11.81 x 12.76
G600SMP400H	270 x 342	10.63 x 13.46	600 x 400	23.62 x 15.75
G700SMP250H	320 x 192	12.60 x 7.56	700 x 250	27.56 x 9.84
G800SMP225H	370 x 167	14.57 x 6.57	800 x 225	31.50 x 8.86
G800SMP300H	370 x 242	14.57 x 9.53	800 x 300	31.50 x 11.81
G800SMP325H	370 x 267	14.57 x 10.51	800 x 325	31.50 x 12.76
G800SMP425H	370 x 367	14.57 x 14.45	800 x 425	31.50 x 16.73
G1000SMP250H	470 x 192	18.50 x 7.56	1000 x 250	39.37 x 9.84
G1000SMP300H	470 x 242	18.50 x 9.53	1000 x 300	39.37 x 11.81
G1000SMP400H	470 x 342	18.50 x 13.46	1000 x 400	39.37 x 15.75
G1200SMP300H	570 x 242	22.44 x 9.53	1200 x 300	47.24 x 11.81
G1200SMP325H	570 x 267	22.44 x 10.51	1200 x 325	47.24 x 12.76
G1200SMP400H	570 x 342	22.44 x 13.46	1200 x 400	47.24 x 15.75
G1500SMP325H	720 x 267	28.35 x 10.51	1500 x 325	59.05 x 12.80
G1500SMP425H	720 x 367	28.35 x 14.45	1500 x 425	59.05 x 16.73

SIDE-MOUNT ACCESSORY RAIL

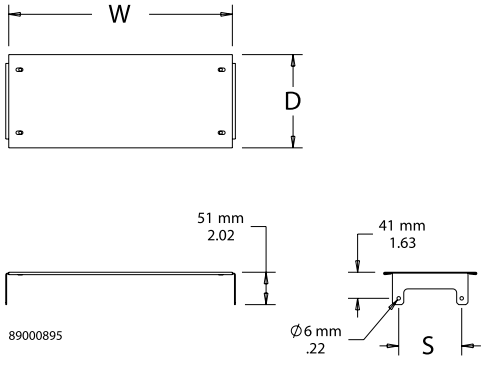


Easy-to-install side (front-to-back) mounting rails provide side and depth mounting capability using minimal tools. Rails are 1.5-mm thick (16 gauge) galvanized steel. Qty. 4 per package. Includes panel-mount brackets, nuts and screws.

BULLETIN: A4GY

Catalog Number	Fits Depth (mm)	Fits Depth (in.)
G50SMR150	150	5.91
G50SMR200	200	7.87
G50SMR225	225	8.86
G50SMR250	250	9.84
G50SMR300	300	11.81
G50SMR325	325	12.80
G50SMR400	400	15.75
G50SMR425	425	16.73

HORIZONTAL SEPARATOR



Horizontal Separator mounts onto side-mount accessory rails to divide the FUSION G7 into separate compartments. Galvanized 1.5-mm thick (16 gauge) steel. Mounting hardware provided.

BULLETIN: A4GY

Catalog Number	Fits B x C (mm)	Fits B x C (in.)	W x D (mm)	W x D (in.)	S (mm)	S (in.)
GHS300225	300 x 225	11.81 x 8.86	255 x 148	10.04 x 5.83	100	3.94
GHS400200	400 x 200	15.75 x 7.87	355 x 123	13.98 x 4.84	75	2.95
GHS400225	400 x 225	15.75 x 8.86	355 x 148	13.98 x 5.83	100	3.94
GHS500200	500 x 200	19.68 x 7.87	455 x 123	17.91 x 4.84	75	2.95
GHS500225	500 x 225	19.68 x 8.86	455 x 148	17.91 x 5.83	100	3.94
GHS500250	500 x 250	19.68 x 9.84	455 x 173	17.91 x 6.81	125	4.92
GHS500300	500 x 300	19.68 x 11.81	455 x 223	17.91 x 8.87	175	6.89
GHS600225	600 x 225	23.62 x 8.86	555 x 148	21.85 x 5.83	100	3.94
GHS600250	600 x 250	23.62 x 9.84	555 x 173	21.85 x 6.81	125	4.92
GHS600325	600 x 325	23.62 x 12.80	555 x 248	21.85 x 9.76	200	7.78
GHS600400	600 x 400	23.62 x 15.75	555 x 323	21.85 x 12.72	275	10.83
GHS800300	800 x 300	32.50 x 11.81	755 x 223	29.72 x 8.78	175	6.89
GHS800400	800 x 400	32.50 x 15.75	755 x 323	29.72 x 12.72	275	10.83
GHS900325	900 x 325	35.43 x 12.50	855 x 248	33.66 x 9.76	200	7.87
GHS900425	900 x 425	35.43 x 16.73	855 x 348	33.66 x 13.70	300	11.81

HINGE PIN KITS

Easy-to-remove and replace hinge pins facilitate door removal or reversing. Available in plated or stainless steel.

BULLETIN: A4GY, VM3

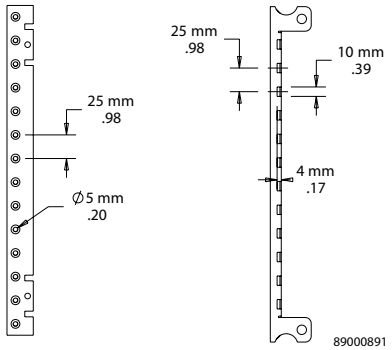
Catalog Number	Description	Pkg. Qty.
GHPINSS	Stainless steel	2
GHPINMS	Plated steel	2

FRONT AND BACK VERTICAL ACCESSORY MOUNTING RAILS

Constructed of galvanized steel. Front rail is 2.0-mm thick (14 gauge) and back rail is 1.5-mm thick (16 gauge). Package includes two front and two back rails and mounting screws.

Required for side-mount and adjustable-depth accessory installation.

BULLETIN: A4GY



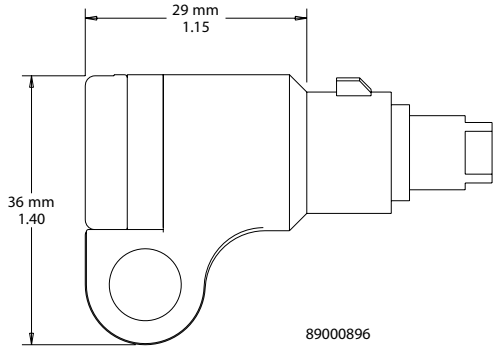
Front Rail Back Rail

Catalog Number	Fits A (mm)	Fits A (in.)
GAMR300	300	11.81
GAMR400	400	15.75
GAMR500	500	19.68
GAMR600	600	23.62
GAMR700	700	27.56
GAMR800	800	31.50
GAMR1000	1000	39.37
GAMR1200	1200	47.24
GAMR1500	1500	59.05

PADLOCK INSERTS

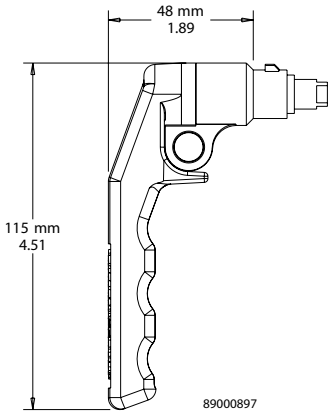
Padlock Inserts fit into standard quarter-turn latches in both FUSION G7 and CONCEPT enclosures. They are made of black composite material (PBT) with zinc insert and replace the standard 3-mm double-bit insert when padlocking security is required. Available with 3-mm double bit or slotted screwdriver tool to open. Accommodate up to 5/16-in. diameter padlock shank.

BULLETIN: A4GY



Catalog Number	Description
GPDLOCK3MM	3-mm double-bit padlock insert
GPDLOCKSLOT	Slotted screwdriver padlock insert

PADLOCK HANDLES



This black, composite, padlocking handle with zinc insert can replace the standard quarter-turn, 3-mm double bit insert on FUSION G7 and CONCEPT wall-mount enclosures. It accommodates up to a 5/16-in. diameter padlock shank and can be converted from clockwise to counterclockwise opening. Maintains IP66 and UL/CSA Type 12, 4 and 4X when properly installed in a Hoffman CONCEPT and FUSION G7 enclosure.

BULLETIN: A4GY

Catalog Number	Description
GPDLOCKHDL	Padlocking Handle

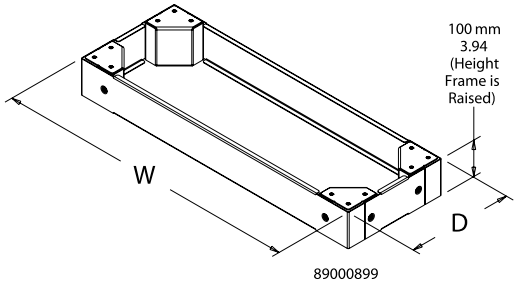
DIN RAIL MOUNTING ADAPTER

Allows quick and simple installation of TS35 x 7.5 DIN (DIN3) rail. Black composite (PBT) material. DIN rail not included.

BULLETIN: A4GY

Catalog Number	Pkg. Qty.
GDINRAILBKT	10

100-MM PLINTH BASE



Install 100-mm Plinth Base under FUSION G7 enclosure to provide space for cables to enter from below. Constructed of 1.5-mm thick (16 gauge) steel sides and 2.5-mm thick (12 gauge) corners with textured RAL 9005 black finish. Mounting hardware included with base.

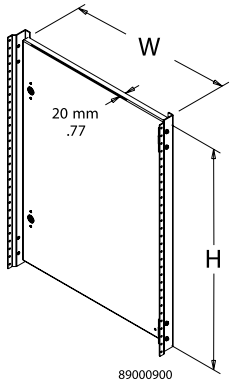
BULLETIN: A4GY

Catalog Number	Fits B x C (mm)	Fits B x C (in.)	W x D (mm)	W x D (in.)
GPB800300	800 x 300	31.50 x 11.81	800 x 279	31.50 x 10.98
GPB800400	800 x 400	31.50 x 15.75	800 x 379	31.50 x 14.92
GPB900325	900 x 325	35.43 x 12.80	900 x 304	35.43 x 11.97
GPB900425	900 x 425	35.43 x 16.73	900 x 404	35.43 x 15.91

ALUMINUM SWING PANEL

2.5-mm (.100-in.) thick Aluminum Swing Panel provides a convenient way to install controls and instruments near the front of the FUSION G7 enclosure while providing access and security. Mounting hardware and 3-mm double-bit key included with panel.

BULLETIN: A4GY



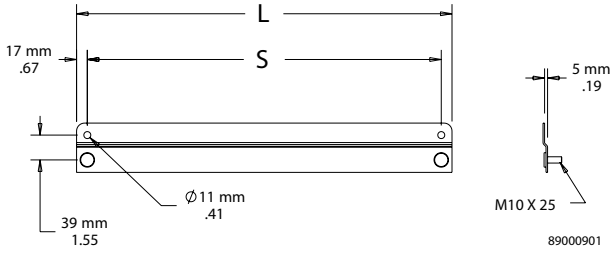
Catalog Number	Fits A x B (mm)	Fits A x B (in.)	H x W (mm)	H x W (in.)
GSP400300A	400 x 300	15.75 x 11.81	315 x 233	12.40 x 9.16
GSP500400A	500 x 400	19.68 x 15.75	415 x 333	16.34 x 13.11
GSP500500A	500 x 500	19.68 x 19.68	415 x 433	16.34 x 17.05
GSP600500A	600 x 500	23.62 x 19.68	515 x 433	20.27 x 17.05
GSP600600A	600 x 600	23.62 x 23.62	515 x 533	20.27 x 20.98
GSP700500A	700 x 500	27.56 x 19.68	615 x 433	24.21 x 17.05
GSP800600A	800 x 600	32.50 x 23.62	715 x 533	28.15 x 20.98
GSP1000600A	1000 x 600	39.37 x 23.62	915 x 533	36.02 x 20.98
GSP1000800A	1000 x 800	39.37 x 31.50	915 x 733	36.02 x 28.86
GSP1200800A	1200 x 800	47.24 x 31.50	1115 x 733	28.24 x 28.86
GSP1200900A	1200 x 900	47.24 x 35.43	1115 x 833	28.24 x 32.80
GSP1500900A	1500 x 900	59.05 x 35.43	1415 x 833	55.71 x 32.80

FULL-WIDTH TOP AND BOTTOM MOUNTING-BRACKET KITS WITH STUDS

Use to mount FUSION G7 to a wall or another enclosure. Includes two 2.5-mm thick (12 gauge) steel external mounting brackets and mounting hardware. Finished with RAL 7035 textured light-gray polyester powder paint.

Mounting brackets are required to maintain UL/CSA external mounting requirement.

BULLETIN: A4GY



Catalog Number	Fits B (mm)	Fits B (in.)	L (mm)	L (in.)	S (mm)	S (in.)
GTBMTBKT300	300	11.81	296	11.65	262	10.31
GTBMTBKT400	400	15.75	396	15.59	362	14.25
GTBMTBKT500	500	19.68	496	19.53	462	18.19
GTBMTBKT600	600	23.62	596	23.46	562	22.12
GTBMTBKT800	800	31.50	796	31.34	762	30.00
GTBMTBKT900	900	35.43	896	35.62	862	33.93

DOUBLE-BIT KEYS

Black non-metallic 3-mm double-bit keys. Package of two.

BULLETIN: A4GY

Catalog Number	Description	Pkg. Qty.
GKEY3MMDB	3-mm black, non-metallic	2

SCREW PACKAGE

5-mm screws for FUSION G7 internal accessories. Package of 20.

BULLETIN: A4GY

Catalog Number	Description	Pkg. Qty.
GSM5	5-mm screw M5 x 0.8 x 10	20

PANEL MOUNTING BRACKETS

Package includes four mounting brackets, four M8 nuts and eight 5-mm screws.

BULLETIN: A4GY

Catalog Number	Description
GSMRBKTS	Panel mounting brackets; fit side-mount accessory rails

FUSION G7 DOOR STOP KIT

Designed for use on FUSION G7 enclosures to secure the door in the open position. Door Stop Kit can be mounted at the top or bottom of the door opening, as well as left- or right-hinged. Door stop is stainless steel with plated and stainless steel mounting hardware. Maintains IP66 and UL/CSA Type 4 and 12 when properly installed in a Hoffman FUSION G7 enclosure.

BULLETIN: A4GY

Catalog Number	Description
GDSTOPK	FUSION G7 Door Stop Kit

LOCK INSERTS

Lock inserts can be substituted for the standard 3-mm double-bit latch insert. Inserts have a chrome finish. Matching key is zinc die-cast.

BULLETIN: A4GY, CWY

Catalog Number	Description
CLKTM7	Triangular 7-mm insert with key
CLKSM7	Square 7-mm insert with key
CLKDBM3	Double bit with key
CLKSLOT	Slotted Insert no key

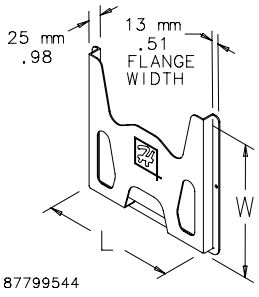
MOUNTING BRACKET KITS

Mounting-Bracket Kits are field installable. Composite and stainless steel brackets are rated to Type 4X. Set of four (4) brackets can support 500 lb. (227 kg) maximum load. All hardware is included. Four brackets per kit.
Mounting brackets are required to maintain UL/CSA external mounting requirement.

BULLETIN: A80

Catalog Number	Description	Fastener Thread Size
CMFK	Steel	#3/8-16
CMFKSS	Stainless Steel	#3/8-16
CMTGFT	Composite	#3/8-16

THERMOPLASTIC DATA POCKET

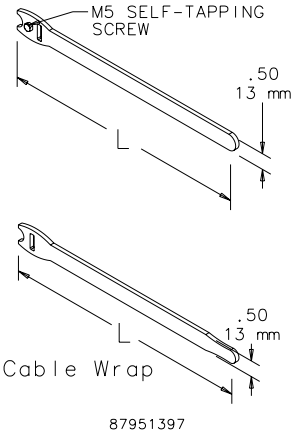


Provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure. Adhesive-backed pockets mount inside the solid enclosure cover. Mounting hardware included. Thermoplastic pockets are dark gray and have cut-away areas for easy inspection of contents.

BULLETIN: A80DP

Catalog Number	Description	Size L x W in./mm
ADP1	Small pocket	6.00 x 6.00 152 x 152
ADP2	Large pocket	12.00 x 12.00 305 x 305

VELCRO® CABLE WRAP



Securely holds cable to cable manager and unfastens easily for cable maintenance. VELCRO® is 0.5-in. (12.7-mm) wide. Available in 8- and 12-in. (203- and 305-mm) lengths in both screw fastener and wrap styles. M5 self-tapping screw is used on Net Series or PROLINE frames.

VELCRO is a trademark of Velcro Industries B.V.

BULLETIN: DACCY

Catalog Number	Description	L (in.)	L (mm)	Color	Pkg. Qty.
ECWTD8B	Screw fastener style. Includes M5 mounting screw.	8.00	203	Black	10
ECWTD12B	Screw fastener style. Includes M5 mounting screw.	12.00	305	Black	10
ECW8B	Wrap style	8.00	203	Black	10
ECW8R	Wrap style	8.00	203	Red	10
ECW8BL	Wrap style	8.00	203	Blue	10
ECW8Y	Wrap style	8.00	203	Yellow	10
ECW12B	Wrap style	12.00	305	Black	10
ECW12R	Wrap style	12.00	305	Red	10
ECW12BL	Wrap style	12.00	305	Blue	10
ECW12Y	Wrap style	12.00	305	Yellow	10

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CONCEPT, TYPE 4 AND 12

INDUSTRY STANDARDS

Wall-mounting brackets required to maintain UL/CSA external mounting requirement.

CONCEPT solid single-door, door with window and flush-mount models

UL 508A Listed; Type 4, 12; File No. E61997 cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12, 13
CSA, File No. 42186: Type 4, 12
VDE IP66
IEC 60529, IP66

CONCEPT two-door models

UL 508A Listed; Type 12; File No. E61997 cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA, File No. 42186, Type 12
VDE IP 55
IEC 60529, IP55

APPLICATION

CONCEPT Enclosures are ideal for machine control applications. With streamlined styling, flush quarter-turn latches and an attractive, durable finish. Available in solid or window single-door and two-door landscape, flush-mount and sloped-top versions for application and mounting flexibility. Two-door landscape models provide full-width access and easy panel installation.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Corner-formed doors
- Simple easy-to-remove and install hinge pins with captivation clip
- High-torque threadless studs and fasteners on door
- Minimum-width body flange provides maximum door opening
- Door opens 210 degrees
- External formed body flange
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or optional external mounting brackets
- Removable door with hidden hinges for clean, aesthetic appearance
- Seamless foam-in-place gasket
- Quarter-turn slotted latch(es)
- Door alignment device on doors wider than 30 in.
- Four hinges on 60-in.-high enclosures
- Grounding stud on body; bonding provision on door (except window-door models)
- Provisions on door for optional high-impact thermoplastic data pocket
- Hardware kit with panel mounting nuts, panel grounding hardware and sealing washers
- Installation instructions provided

Single-Door and Window-Door Models:

- 3-point latch system on enclosures with height equal to or greater than 42-in. with quarter-turn, slotted latch

Flush-Mount Models:

- Mounting frame extends completely around enclosure

Two-Door Models:

- Overlapping door design provides full-width access
- Three-point latch system on right-hand hinged door with quarter-turn, slotted latch

FINISH

Two standard finishes are available: ANSI 61 gray or RAL 7035 textured light-gray polyester powder paint inside and out.

ACCESSORIES

CONCEPT Panels, page 1444
Door Stop Kit, page 1443
Handles, page 1442
Lock Inserts, page 1443
Mounting Bracket Kits (CMFK, CMTGFT), page 1402
Padlock Inserts, page 67
Padlock Handles, page 68
HF Side-Mount Filter Fans, page 1168

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CW1

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Standard Product **Single-Door Enclosures**

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CSD12106	12.00 x 10.00 x 6.00 305 x 254 x 152	ANSI 61 Gray	16	16	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	1	Quarter-turn	6.00 152
CSD12106LG	12.00 x 10.00 x 6.00 305 x 254 x 152	RAL 7035 Lt. Gray	16	16	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	1	Quarter-turn	6.00 152
CSD12126	12.00 x 12.00 x 6.00 305 x 305 x 152	ANSI 61 Gray	16	16	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	1	Quarter-turn	6.00 152
CSD12126LG	12.00 x 12.00 x 6.00 305 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	1	Quarter-turn	6.00 152
CSD12246	12.00 x 24.00 x 6.00 305 x 610 x 152	ANSI 61 Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	10.50 x 22.50 267 x 572	1	Quarter-turn	6.00 152
CSD12246LG	12.00 x 24.00 x 6.00 305 x 610 x 152	RAL 7035 Lt. Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	10.50 x 22.50 267 x 572	1	Quarter-turn	6.00 152
CSD16126	16.00 x 12.00 x 6.00 406 x 305 x 152	ANSI 61 Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD16126LG	16.00 x 12.00 x 6.00 406 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD16166	16.00 x 16.00 x 6.00 406 x 406 x 152	ANSI 61 Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD16166LG	16.00 x 16.00 x 6.00 406 x 406 x 152	RAL 7035 Lt. Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD16206	16.00 x 20.00 x 6.00 406 x 508 x 152	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD16206LG	16.00 x 20.00 x 6.00 406 x 508 x 152	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD20126	20.00 x 12.00 x 6.00 508 x 305 x 152	ANSI 61 Gray	16	16	CP2012	CP2012G	18.20 x 10.20 462 x 259	18.50 x 10.50 470 x 267	1	Quarter-turn	10.00 254
CSD20126LG	20.00 x 12.00 x 6.00 508 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP2012	CP2012G	18.20 x 10.20 462 x 259	18.50 x 10.50 470 x 267	1	Quarter-turn	10.00 254
CSD20166	20.00 x 16.00 x 6.00 508 x 406 x 152	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD20166LG	20.00 x 16.00 x 6.00 508 x 406 x 152	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD20206	20.00 x 20.00 x 6.00 508 x 508 x 152	ANSI 61 Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD20206LG	20.00 x 20.00 x 6.00 508 x 508 x 152	RAL 7035 Lt. Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD20246	20.00 x 24.00 x 6.00 508 x 610 x 152	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 570 x 572	1	Quarter-turn	10.00 254
CSD20246LG	20.00 x 24.00 x 6.00 508 x 610 x 152	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 570 x 572	1	Quarter-turn	10.00 254
CSD24126	24.00 x 12.00 x 6.00 610 x 305 x 152	ANSI 61 Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD24126LG	24.00 x 12.00 x 6.00 610 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD24166	24.00 x 16.00 x 6.00 610 x 406 x 152	ANSI 61 Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD24166LG	24.00 x 16.00 x 6.00 610 x 406 x 152	RAL 7035 Lt. Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD24206	24.00 x 20.00 x 6.00 610 x 508 x 152	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD24206LG	24.00 x 20.00 x 6.00 610 x 508 x 152	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD24246	24.00 x 24.00 x 6.00 610 x 610 x 152	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD24246LG	24.00 x 24.00 x 6.00 610 x 610 x 152	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD30166	30.00 x 16.00 x 6.00 762 x 406 x 152	ANSI 61 Gray	14	16	CP3016	CP3016G	28.20 x 14.20 716 x 361	28.50 x 14.50 724 x 368	2	Quarter-turn	5.00 127
CSD30166LG	30.00 x 16.00 x 6.00 762 x 406 x 152	RAL 7035 Lt. Gray	14	16	CP3016	CP3016G	28.20 x 14.20 716 x 361	28.50 x 14.50 724 x 368	2	Quarter-turn	5.00 127
CSD30206	30.00 x 20.00 x 6.00 762 x 508 x 152	ANSI 61 Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD30206LG	30.00 x 20.00 x 6.00 762 x 508 x 152	RAL 7035 Lt. Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD30246	30.00 x 24.00 x 6.00 762 x 610 x 152	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 869 x 564	28.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD30246LG	30.00 x 24.00 x 6.00 762 x 610 x 152	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 869 x 564	28.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD36246	36.00 x 24.00 x 6.00 914 x 610 x 152	ANSI 61 Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD36246LG	36.00 x 24.00 x 6.00 914 x 610 x 152	RAL 7035 Lt. Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD36306	36.00 x 30.00 x 6.00 914 x 762 x 152	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD36306LG	36.00 x 30.00 x 6.00 914 x 762 x 152	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CSD12248	12.00 x 24.00 x 8.00 305 x 610 x 203	ANSI 61 Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	10.50 x 22.50 267 x 572	1	Quarter-turn	6.00 152
CSD12248LG	12.00 x 24.00 x 8.00 305 x 610 x 203	RAL 7035 Lt. Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	10.50 x 22.50 267 x 572	1	Quarter-turn	6.00 152
CSD16128	16.00 x 12.00 x 8.00 406 x 305 x 203	ANSI 61 Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD16128LG	16.00 x 12.00 x 8.00 406 x 305 x 203	RAL 7035 Lt. Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD16168	16.00 x 16.00 x 8.00 406 x 406 x 203	ANSI 61 Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD16168LG	16.00 x 16.00 x 8.00 406 x 406 x 203	RAL 7035 Lt. Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD16208	16.00 x 20.00 x 8.00 406 x 508 x 203	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD16208LG	16.00 x 20.00 x 8.00 406 x 508 x 203	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD20128	20.00 x 12.00 x 8.00 508 x 305 x 203	ANSI 61 Gray	16	16	CP2012	CP2012G	18.20 x 10.20 462 x 259	18.50 x 10.50 470 x 267	1	Quarter-turn	10.00 254
CSD20128LG	20.00 x 12.00 x 8.00 508 x 305 x 203	RAL 7035 Lt. Gray	16	16	CP2012	CP2012G	18.20 x 10.20 462 x 259	18.50 x 10.50 470 x 267	1	Quarter-turn	10.00 254
CSD20168	20.00 x 16.00 x 8.00 508 x 406 x 203	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD20168LG	20.00 x 16.00 x 8.00 508 x 406 x 203	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD20208	20.00 x 20.00 x 8.00 508 x 508 x 203	ANSI 61 Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD20208LG	20.00 x 20.00 x 8.00 508 x 508 x 203	RAL 7035 Lt. Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD20248	20.00 x 24.00 x 8.00 508 x 610 x 203	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 470 x 572	1	Quarter-turn	10.00 254
CSD20248LG	20.00 x 24.00 x 8.00 508 x 610 x 203	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 470 x 572	1	Quarter-turn	10.00 254
CSD24128	24.00 x 12.00 x 8.00 610 x 305 x 203	ANSI 61 Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD24128LG	24.00 x 12.00 x 8.00 610 x 305 x 203	RAL 7035 Lt. Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD24168	24.00 x 16.00 x 8.00 610 x 406 x 203	ANSI 61 Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD24168LG	24.00 x 16.00 x 8.00 610 x 406 x 203	RAL 7035 Lt. Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD24208	24.00 x 20.00 x 8.00 610 x 508 x 203	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD24208LG	24.00 x 12.00 x 8.00 610 x 305 x 203	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD24248	24.00 x 24.00 x 8.00 610 x 610 x 203	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD24248LG	24.00 x 24.00 x 8.00 610 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD24308	24.00 x 30.00 x 8.00 610 x 762 x 203	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD24308LG	24.00 x 30.00 x 8.00 610 x 762 x 203	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD30128	30.00 x 12.00 x 8.00 762 x 305 x 203	ANSI 61 Gray	14	16	CP3012	CP3012G	28.20 x 10.20 716 x 259	28.50 x 10.50 724 x 267	2	Quarter-turn	5.00 127
CSD30128LG	30.00 x 12.00 x 8.00 762 x 305 x 203	RAL 7035 Lt. Gray	14	16	CP3012	CP3012G	28.20 x 10.20 716 x 259	28.50 x 10.50 724 x 267	2	Quarter-turn	5.00 127
CSD30168	30.00 x 16.00 x 8.00 762 x 406 x 203	ANSI 61 Gray	14	16	CP3016	CP3016G	28.20 x 14.20 716 x 361	28.50 x 14.50 724 x 368	2	Quarter-turn	5.00 127
CSD30168LG	30.00 x 16.00 x 8.00 762 x 406 x 203	RAL 7035 Lt. Gray	14	16	CP3016	CP3016G	28.20 x 14.20 716 x 361	28.50 x 14.50 724 x 368	2	Quarter-turn	5.00 127
CSD30208	30.00 x 20.00 x 8.00 762 x 508 x 203	ANSI 61 Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD30208LG	30.00 x 20.00 x 8.00 762 x 508 x 203	RAL 7035 Lt. Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD30248	30.00 x 24.00 x 8.00 762 x 610 x 203	ANSI 61 Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD30248LG	30.00 x 24.00 x 8.00 762 x 610 x 203	RAL 7035 Lt. Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD30308	30.00 x 30.00 x 8.00 762 x 762 x 203	ANSI 61 Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD30308LG	30.00 x 30.00 x 8.00 762 x 762 x 203	RAL 7035 Lt. Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD30368	30.00 x 36.00 x 8.00 762 x 914 x 203	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	28.50 x 34.50 724 x 876	2	Quarter-turn	5.00 127
CSD30368LG	30.00 x 36.00 x 8.00 762 x 914 x 203	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	28.50 x 34.50 724 x 876	2	Quarter-turn	5.00 127
CSD36248	36.00 x 24.00 x 8.00 914 x 610 x 203	ANSI 61 Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127

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CSD36248LG	36.00 x 24.00 x 8.00 914 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD36308	36.00 x 30.00 x 8.00 914 x 762 x 203	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD36308LG	36.00 x 30.00 x 8.00 914 x 762 x 203	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD36368	36.00 x 36.00 x 8.00 914 x 914 x 203	ANSI 61 Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD36368LG	36.00 x 36.00 x 8.00 914 x 914 x 203	RAL 7035 Lt. Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD42248	42.00 x 24.00 x 8.00 1067 x 610 x 203	ANSI 61 Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	40.50 x 22.50 1029 x 572	1	3-point	21.00 533
CSD42248LG	42.00 x 24.00 x 8.00 1067 x 610 x 203	RAL 7035 Lt. Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	40.50 x 22.50 1029 x 572	1	3-point	21.00 533
CSD42308	42.00 x 30.00 x 8.00 1067 x 762 x 203	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 716	1	3-point	21.00 533
CSD42308LG	42.00 x 30.00 x 8.00 1067 x 762 x 203	RAL 7035 Lt. Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 716	1	3-point	21.00 533
CSD42368	42.00 x 36.00 x 8.00 1067 x 914 x 203	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD42368LG	42.00 x 36.00 x 8.00 1067 x 914 x 203	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD48248	48.00 x 24.00 x 8.00 1219 x 610 x 203	ANSI 61 Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1174 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD48248LG	48.00 x 24.00 x 8.00 1219 x 610 x 203	RAL 7035 Lt. Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1174 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD48308	48.00 x 30.00 x 8.00 1219 x 762 x 203	ANSI 61 Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 724	1	3-point	24.00 610
CSD48308LG	48.00 x 30.00 x 8.00 1219 x 762 x 203	RAL 7035 Lt. Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 724	1	3-point	24.00 610
CSD48368	48.00 x 36.00 x 8.00 1219 x 914 x 203	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1174 x 876	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD48368LG	48.00 x 36.00 x 8.00 1219 x 914 x 203	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1174 x 876	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD60368	60.00 x 36.00 x 8.00 1524 x 914 x 203	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD60368LG	60.00 x 36.00 x 8.00 1524 x 914 x 203	RAL 7035 Lt. Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD161210	16.00 x 12.00 x 10.00 406 x 305 x 254	ANSI 61 Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD161210LG	16.00 x 12.00 x 10.00 406 x 305 x 254	ANSI 61 Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	Quarter-turn	8.00 203
CSD161610	16.00 x 16.00 x 10.00 406 x 406 x 254	RAL 7035 Lt. Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD161610LG	16.00 x 16.00 x 10.00 406 x 406 x 254	RAL 7035 Lt. Gray	16	16	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	Quarter-turn	8.00 203
CSD162010	16.00 x 20.00 x 10.00 406 x 508 x 254	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD162010LG	16.00 x 20.00 x 10.00 406 x 508 x 254	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	Quarter-turn	8.00 203
CSD201610	20.00 x 16.00 x 10.00 508 x 406 x 254	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD201610LG	20.00 x 16.00 x 10.00 508 x 406 x 254	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	Quarter-turn	10.00 254
CSD202010	20.00 x 20.00 x 10.00 508 x 508 x 254	ANSI 61 Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD202010LG	20.00 x 20.00 x 10.00 508 x 508 x 254	RAL 7035 Lt. Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD202410	20.00 x 24.00 x 10.00 508 x 610 x 254	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 470 x 572	1	Quarter-turn	10.00 254
CSD202410LG	20.00 x 24.00 x 10.00 508 x 610 x 254	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	18.50 x 22.50 470 x 572	1	Quarter-turn	10.00 254
CSD241210	24.00 x 12.00 x 10.00 610 x 305 x 254	ANSI 61 Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD241210LG	24.00 x 12.00 x 10.00 610 x 305 x 254	RAL 7035 Lt. Gray	16	16	CP2412	CP2412G	22.20 x 10.20 564 x 259	22.50 x 10.50 572 x 267	1	Quarter-turn	12.00 305
CSD241610	24.00 x 16.00 x 10.00 610 x 406 x 254	ANSI 61 Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD241610LG	24.00 x 16.00 x 10.00 610 x 406 x 254	RAL 7035 Lt. Gray	16	16	CP2416	CP2416G	22.20 x 14.20 564 x 361	22.50 x 14.50 572 x 368	1	Quarter-turn	12.00 305
CSD242010	24.00 x 20.00 x 10.00 610 x 508 x 254	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242010LG	24.00 x 20.00 x 10.00 610 x 508 x 254	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242410	24.00 x 24.00 x 10.00 610 x 610 x 254	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD242410LG	24.00 x 24.00 x 10.00 610 x 610 x 254	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127

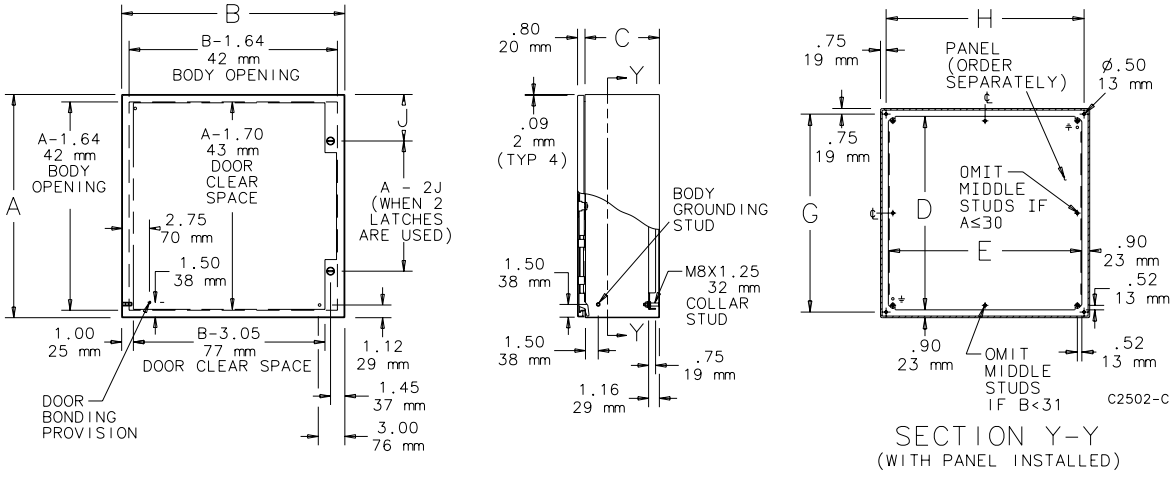
Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CSD243010	24.00 x 30.00 x 10.00 610 x 762 x 254	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD243010LG	24.00 x 30.00 x 10.00 610 x 762 x 254	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD302010	30.00 x 20.00 x 10.00 762 x 508 x 254	ANSI 61 Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD302010LG	30.00 x 20.00 x 10.00 762 x 508 x 254	RAL 7035 Lt. Gray	14	16	CP3020	CP3020G	28.20 x 18.20 716 x 462	28.50 x 18.50 724 x 470	2	Quarter-turn	5.00 127
CSD302410	30.00 x 24.00 x 10.00 762 x 610 x 254	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD302410LG	30.00 x 24.00 x 10.00 762 x 610 x 254	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD303010	30.00 x 30.00 x 10.00 762 x 762 x 254	ANSI 61 Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD303010LG	30.00 x 30.00 x 10.00 762 x 762 x 254	RAL 7035 Lt. Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD362410	36.00 x 24.00 x 10.00 914 x 610 x 254	ANSI 61 Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD362410LG	36.00 x 24.00 x 10.00 914 x 610 x 254	RAL 7035 Lt. Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD363010	36.00 x 30.00 x 10.00 914 x 762 x 254	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363010LG	36.00 x 30.00 x 10.00 914 x 762 x 254	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363610	36.00 x 36.00 x 10.00 914 x 914 x 254	ANSI 61 Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD363610LG	36.00 x 36.00 x 10.00 914 x 914 x 254	RAL 7035 Lt. Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD422410	42.00 x 24.00 x 10.00 1067 x 610 x 254	ANSI 61 Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	40.50 x 22.50 1029 x 572	1	3-point	21.00 533
CSD422410LG	42.00 x 24.00 x 10.00 1067 x 610 x 254	RAL 7035 Lt. Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	40.50 x 22.50 1029 x 572	1	3-point	21.00 533
CSD423010	42.00 x 30.00 x 10.00 1067 x 762 x 254	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423010LG	42.00 x 30.00 x 10.00 1067 x 762 x 254	RAL 7035 Lt. Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423610	42.00 x 36.00 x 10.00 1067 x 914 x 254	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD423610LG	42.00 x 36.00 x 10.00 1067 x 914 x 254	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD482410	48.00 x 24.00 x 10.00 1219 x 610 x 254	ANSI 61 Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1173 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD482410LG	48.00 x 24.00 x 10.00 1219 x 610 x 254	RAL 7035 Lt. Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1173 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD483010	48.00 x 30.00 x 10.00 1219 x 762 x 254	ANSI 61 Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 28.50	1	3-point	24.00 610
CSD483010LG	48.00 x 30.00 x 10.00 1219 x 762 x 254	RAL 7035 Lt. Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 28.50	1	3-point	24.00 610
CSD483610	48.00 x 36.00 x 10.00 1219 x 914 x 254	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD483610LG	48.00 x 36.00 x 10.00 1219 x 914 x 254	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD603610	60.00 x 36.00 x 10.00 1524 x 914 x 254	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD603610LG	60.00 x 36.00 x 10.00 1524 x 914 x 254	RAL 7035 Lt. Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD201612	20.00 x 16.00 x 12.00 508 x 406 x 305	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 1029	1	Quarter-turn	10.00 254
CSD201612LG	20.00 x 16.00 x 12.00 508 x 406 x 305	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 1029	1	Quarter-turn	10.00 254
CSD202012	20.00 x 20.00 x 12.00 508 x 508 x 305	ANSI 61 Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD202012LG	20.00 x 20.00 x 12.00 508 x 508 x 305	RAL 7035 Lt. Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	1	Quarter-turn	10.00 254
CSD242012	24.00 x 20.00 x 12.00 610 x 508 x 305	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242012LG	24.00 x 20.00 x 12.00 610 x 508 x 305	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242412	24.00 x 24.00 x 12.00 610 x 610 x 305	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD242412LG	24.00 x 24.00 x 12.00 610 x 610 x 305	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD243012	24.00 x 30.00 x 12.00 610 x 762 x 305	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD243012LG	24.00 x 30.00 x 12.00 610 x 762 x 305	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	22.50 x 28.50 572 x 724	2	Quarter-turn	5.00 127
CSD302412	30.00 x 24.00 x 12.00 762 x 610 x 305	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CSD302412LG	30.00 x 24.00 x 12.00 762 x 610 x 305	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD303012	30.00 x 30.00 x 12.00 762 x 762 x 305	ANSI 61 Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD303012LG	30.00 x 30.00 x 12.00 762 x 762 x 305	RAL 7035 Lt. Gray	14	14	CP3030	CP3030G	28.20 x 28.20 716 x 716	28.50 x 28.50 724 x 724	2	Quarter-turn	5.00 127
CSD362412	36.00 x 24.00 x 12.00 914 x 610 x 305	ANSI 61 Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD362412LG	36.00 x 24.00 x 12.00 914 x 610 x 305	RAL 7035 Lt. Gray	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD363012	36.00 x 30.00 x 12.00 914 x 762 x 305	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363012LG	36.00 x 30.00 x 12.00 914 x 762 x 305	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363612	36.00 x 36.00 x 12.00 914 x 914 x 305	ANSI 61 Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD363612LG	36.00 x 36.00 x 12.00 914 x 914 x 305	RAL 7035 Lt. Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD423012	42.00 x 30.00 x 12.00 1067 x 762 x 305	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423012LG	42.00 x 30.00 x 12.00 1067 x 762 x 305	RAL 7035 Lt. Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423612	42.00 x 36.00 x 12.00 1067 x 914 x 305	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD423612LG	42.00 x 36.00 x 12.00 1067 x 914 x 305	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD482412	48.00 x 24.00 x 12.00 1219 x 610 x 305	ANSI 61 Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1173 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD482412LG	48.00 x 24.00 x 12.00 1219 x 610 x 305	RAL 7035 Lt. Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1173 x 564	46.50 x 22.50 1181 x 572	1	3-point	24.00 610
CSD483612	48.00 x 36.00 x 12.00 1219 x 914 x 305	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD483612LG	48.00 x 36.00 x 12.00 1219 x 914 x 305	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD603612	60.00 x 36.00 x 12.00 1524 x 914 x 305	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD603612LG	60.00 x 36.00 x 12.00 1524 x 914 x 305	RAL 7035 Lt. Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD242016	24.00 x 20.00 x 16.00 610 x 508 x 406	ANSI 61 Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242016LG	24.00 x 20.00 x 16.00 610 x 508 x 406	RAL 7035 Lt. Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	Quarter-turn	12.00 305
CSD242416	24.00 x 24.00 x 16.00 610 x 610 x 406	ANSI 61 Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD242416LG	24.00 x 24.00 x 16.00 610 x 610 x 406	RAL 7035 Lt. Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD302416	30.00 x 24.00 x 16.00 762 x 610 x 406	ANSI 61 Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD302416LG	30.00 x 24.00 x 16.00 762 x 610 x 406	RAL 7035 Lt. Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD362416	36.00 x 24.00 x 16.00 914 x 610 x 406	ANSI 61 Gray	14	14	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD362416LG	36.00 x 24.00 x 16.00 914 x 610 x 406	RAL 7035 Lt. Gray	14	14	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	Quarter-turn	5.00 127
CSD363016	36.00 x 30.00 x 16.00 914 x 762 x 406	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363016LG	36.00 x 30.00 x 16.00 914 x 762 x 406	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363616	36.00 x 36.00 x 16.00 914 x 914 x 406	ANSI 61 Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD363616LG	36.00 x 36.00 x 16.00 914 x 914 x 406	RAL 7035 Lt. Gray	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	2	Quarter-turn	5.00 127
CSD423016	42.00 x 30.00 x 16.00 1067 x 762 x 406	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423016LG	42.00 x 30.00 x 16.00 1067 x 762 x 406	RAL 7035 Lt. Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 28.50 1029 x 724	1	3-point	21.00 533
CSD423616	42.00 x 36.00 x 16.00 1067 x 914 x 406	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD423616LG	42.00 x 36.00 x 16.00 1067 x 914 x 406	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	1	3-point	21.00 533
CSD483016	48.00 x 30.00 x 16.00 1219 x 762 x 406	ANSI 61 Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 724	1	3-point	24.00 610
CSD483016LG	48.00 x 30.00 x 16.00 1219 x 762 x 406	RAL 7035 Lt. Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	46.50 x 28.50 1181 x 724	1	3-point	24.00 610
CSD483616	48.00 x 36.00 x 16.00 1219 x 914 x 406	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD483616LG	48.00 x 36.00 x 16.00 1219 x 914 x 406	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CSD603616	60.00 x 36.00 x 16.00 1524 x 914 x 406	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD603616LG	60.00 x 36.00 x 16.00 1524 x 914 x 406	RAL 7035 Lt. Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	1	3-point	30.00 762
CSD242420	24.00 x 24.00 x 20.00 610 x 610 x 508	ANSI 61 Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD242420LG	24.00 x 24.00 x 20.00 610 x 610 x 508	RAL 7035 Lt. Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	Quarter-turn	5.00 127
CSD302420	30.00 x 24.00 x 20.00 762 x 610 x 508	ANSI 61 Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD302420LG	30.00 x 24.00 x 20.00 762 x 610 x 508	RAL 7035 Lt. Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	Quarter-turn	5.00 127
CSD363020	36.00 x 30.00 x 20.00 914 x 762 x 508	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD363020LG	36.00 x 30.00 x 20.00 914 x 762 x 508	RAL 7035 Lt. Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	Quarter-turn	5.00 127
CSD483620	48.00 x 36.00 x 20.00 1219 x 914 x 508	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1174 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610
CSD483620LG	48.00 x 36.00 x 20.00 1219 x 914 x 508	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1174 x 869	46.50 x 34.50 1181 x 876	1	3-point	24.00 610

Purchase panels separately.

Optional NEMA-size panels require conversion kit Catalog Number CCPM4.



Standard Product **Single-Door Enclosures with Windows**

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	CONCEPT Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Window Size M x N in./mm	Latches qty.	Latches style	J in./mm
CSD12106W	12.00 x 10.00 x 6.00 305 x 254 x 152	ANSI 61 Gray	14	18	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	8.49 x 5.17 216 x 131	1	Quarter-turn	6.00 152
CSD12106WLG	12.00 x 10.00 x 6.00 305 x 254 x 152	RAL 7035 Lt. Gray	14	18	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	8.49 x 5.17 216 x 131	1	Quarter-turn	6.00 152
CSD12126W	12.00 x 12.00 x 6.00 305 x 305 x 152	ANSI 61 Gray	14	18	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	8.49 x 7.30 216 x 185	1	Quarter-turn	6.00 152
CSD12126WLG	12.00 x 12.00 x 6.00 305 x 305 x 152	RAL 7035 Lt. Gray	14	18	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	8.49 x 7.30 222 x 180	1	Quarter-turn	6.00 152
CSD16126W	16.00 x 12.00 x 6.00 406 x 305 x 152	ANSI 61 Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD16126WLG	16.00 x 12.00 x 6.00 406 x 305 x 152	RAL 7035 Lt. Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD20166W	20.00 x 16.00 x 6.00 508 x 406 x 152	ANSI 61 Gray	14	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD20166WLG	20.00 x 16.00 x 6.00 508 x 406 x 152	RAL 7035 Lt. Gray	14	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD20206W	20.00 x 20.00 x 6.00 508 x 508 x 152	ANSI 61 Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD20206WLG	20.00 x 20.00 x 6.00 508 x 508 x 152	RAL 7035 Lt. Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD24206W	24.00 x 20.00 x 6.00 610 x 508 x 152	ANSI 61 Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD24206WLG	24.00 x 20.00 x 6.00 610 x 508 x 152	RAL 7035 Lt. Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD24246W	24.00 x 24.00 x 6.00 610 x 610 x 152	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD24246WLG	24.00 x 24.00 x 6.00 610 x 610 x 152	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127

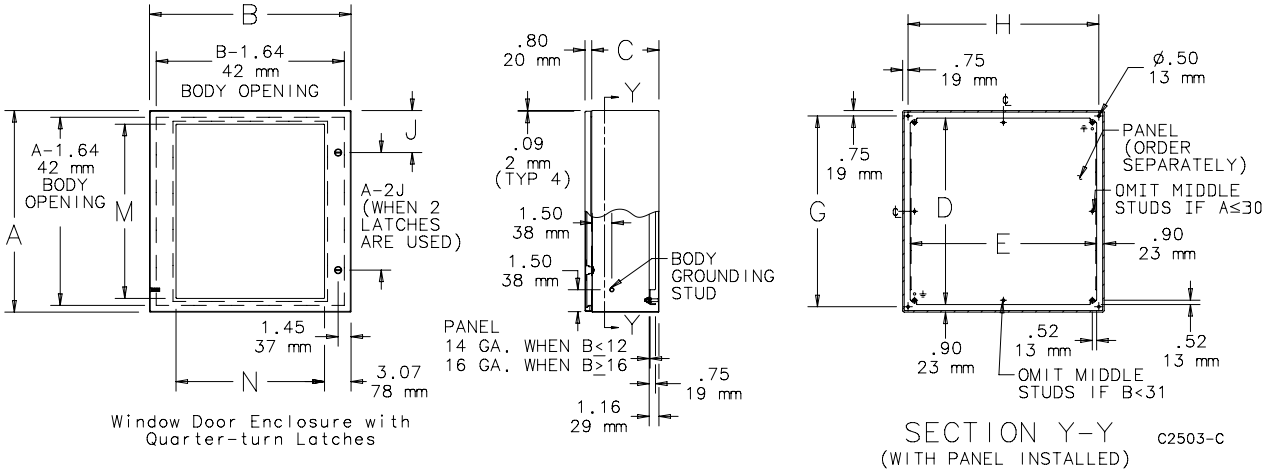
Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	CONCEPT Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Window Size M x N in./mm	Latches qty.	Latches style	J in./mm
CSD30246W	30.00 x 24.00 x 6.00 762 x 610 x 152	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 X 22.20 716 x 564	28.50 x 22.50 267 x 216	26.49 x 18.07 673 x 459	1	Quarter-turn	5.00 127
CSD30246WLG	30.00 x 24.00 x 6.00 762 x 610 x 152	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 X 22.20 716 x 564	28.50 x 22.50 267 x 216	26.49 x 18.07 673 x 459	1	Quarter-turn	5.00 127
CSD12108W	12.00 x 10.00 x 8.00 305 x 254 x 203	ANSI 61 Gray	14	18	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	8.49 x 5.17 216 x 131	1	Quarter-turn	6.00 152
CSD12108WLG	12.00 x 10.00 x 8.00 305 x 254 x 203	RAL 7035 Lt. Gray	14	18	CP1210	CP1210G	10.20 x 8.20 259 x 208	10.50 x 8.50 267 x 216	8.49 x 5.17 216 x 131	1	Quarter-turn	6.00 152
CSD12128W	12.00 x 12.00 x 8.00 305 x 305 x 203	ANSI 61 Gray	14	18	CP1212	CP1212G	10.20 X 10.20 259 x 259	10.50 x 10.50 267 x 267	8.49 x 7.30 216 x 185	1	Quarter-turn	6.00 152
CSD12128WLG	12.00 x 12.00 x 8.00 305 x 305 x 203	RAL 7035 Lt. Gray	14	18	CP1212	CP1212G	10.20 X 10.20 259 x 259	10.50 x 10.50 267 x 267	8.49 x 7.30 216 x 185	1	Quarter-turn	6.00 152
CSD16128W	16.00 x 12.00 x 8.00 406 x 305 x 203	ANSI 61 Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD16128WLG	16.00 x 12.00 x 8.00 406 x 305 x 203	RAL 7035 Lt. Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD20168W	20.00 x 16.00 x 8.00 508 x 406 x 203	ANSI 61 Gray	14	18	CP2016	CP2016	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD20168WLG	20.00 x 16.00 x 8.00 508 x 406 x 203	RAL 7035 Lt. Gray	14	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD20208W	20.00 x 20.00 x 8.00 508 x 508 x 203	ANSI 61 Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD20208WLG	20.00 x 20.00 x 8.00 508 x 508 x 203	RAL 7035 Lt. Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD24208W	24.00 x 20.00 x 8.00 610 x 508 x 203	ANSI 61 Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD24208WLG	24.00 x 20.00 x 8.00 610 x 508 x 203	RAL 7035 Lt. Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD24248W	24.00 x 24.00 x 8.00 610 x 610 x 203	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD24248WLG	24.00 x 24.00 x 8.00 610 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 250 x 459	2	Quarter-turn	5.00 127
CSD30248W	30.00 x 24.00 x 8.00 762 x 610 x 203	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD30248WLG	30.00 x 24.00 x 8.00 762 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD161210W	16.00 x 12.00 x 10.00 406 x 305 x 254	ANSI 61 Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD161210WLG	16.00 x 12.00 x 10.00 406 x 305 x 254	RAL 7035 Lt. Gray	14	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	12.49 x 7.30 317 x 185	1	Quarter-turn	8.00 203
CSD201610W	20.00 x 16.00 x 10.00 508 x 406 x 254	ANSI 61 Gray	14	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD201610WLG	20.00 x 16.00 x 10.00 508 x 406 x 254	RAL 7035 Lt. Gray	14	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	16.49 x 11.30 419 x 287	1	Quarter-turn	10.00 254
CSD202010W	20.00 x 20.00 x 10.00 508 x 508 x 254	ANSI 61 Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD202010WLG	20.00 x 20.00 x 10.00 508 x 508 x 254	RAL 7035 Lt. Gray	14	18	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD242010W	24.00 x 20.00 x 10.00 610 x 508 x 254	ANSI 61 Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 527 x 384	1	Quarter-turn	12.00 305
CSD242010WLG	24.00 x 20.00 x 10.00 610 x 508 x 254	RAL 7035 Lt. Gray	14	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 527 x 384	1	Quarter-turn	12.00 305
CSD242410W	24.00 x 24.00 x 10.00 610 x 610 x 254	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD242410WLG	24.00 x 24.00 x 10.00 610 x 610 x 254	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD302410W	30.00 x 24.00 x 10.00 762 x 610 x 254	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD302410WLG	30.00 x 24.00 x 10.00 762 x 610 x 254	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD202012W	20.00 x 20.00 x 12.00 508 x 508 x 305	ANSI 61 Gray	14	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD202012WLG	20.00 x 20.00 x 12.00 508 x 508 x 305	RAL 7035 Lt. Gray	14	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 18.50 470 x 470	16.49 x 15.30 419 x 389	1	Quarter-turn	10.00 254
CSD242012W	24.00 x 20.00 x 12.00 610 x 508 x 305	ANSI 61 Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD242012WLG	24.00 x 20.00 x 12.00 610 x 508 x 305	RAL 7035 Lt. Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	20.49 x 15.30 520 x 389	1	Quarter-turn	12.00 305
CSD242412W	24.00 x 24.00 x 12.00 610 x 610 x 305	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD242412WLG	24.00 x 24.00 x 12.00 610 x 610 x 305	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 527 x 449	2	Quarter-turn	5.00 127
CSD302412W	30.00 x 24.00 x 12.00 762 x 610 x 305	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD302412WLG	30.00 x 24.00 x 12.00 762 x 610 x 305	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 679 x 449	2	Quarter-turn	5.00 127
CSD242416W	24.00 x 24.00 x 16.00 610 x 610 x 406	ANSI 61 Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	CONCEPT Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Window Size M x N in./mm	Latches qty.	Latches style	J in./mm
CSD242416WLG	24.00 x 24.00 x 16.00 610 x 610 x 406	RAL 7035 Lt. Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD242420W	24.00 x 24.00 x 20.00 610 x 610 x 508	ANSI 61 Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD242420WLG	24.00 x 24.00 x 20.00 610 x 610 x 508	RAL 7035 Lt. Gray	14	14	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	20.49 x 18.07 520 x 459	2	Quarter-turn	5.00 127
CSD302420W	30.00 x 24.00 x 20.00 762 x 610 x 508	ANSI 61 Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127
CSD302420WLG	30.00 x 24.00 x 20.00 762 x 610 x 508	RAL 7035 Lt. Gray	14	14	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	26.49 x 18.07 673 x 459	2	Quarter-turn	5.00 127

Purchase panels separately.

Optional NEMA-size panels require conversion kit Catalog Number CCPM4.

CONCEPT Single-Door Wall-Mounted Enclosures with Windows



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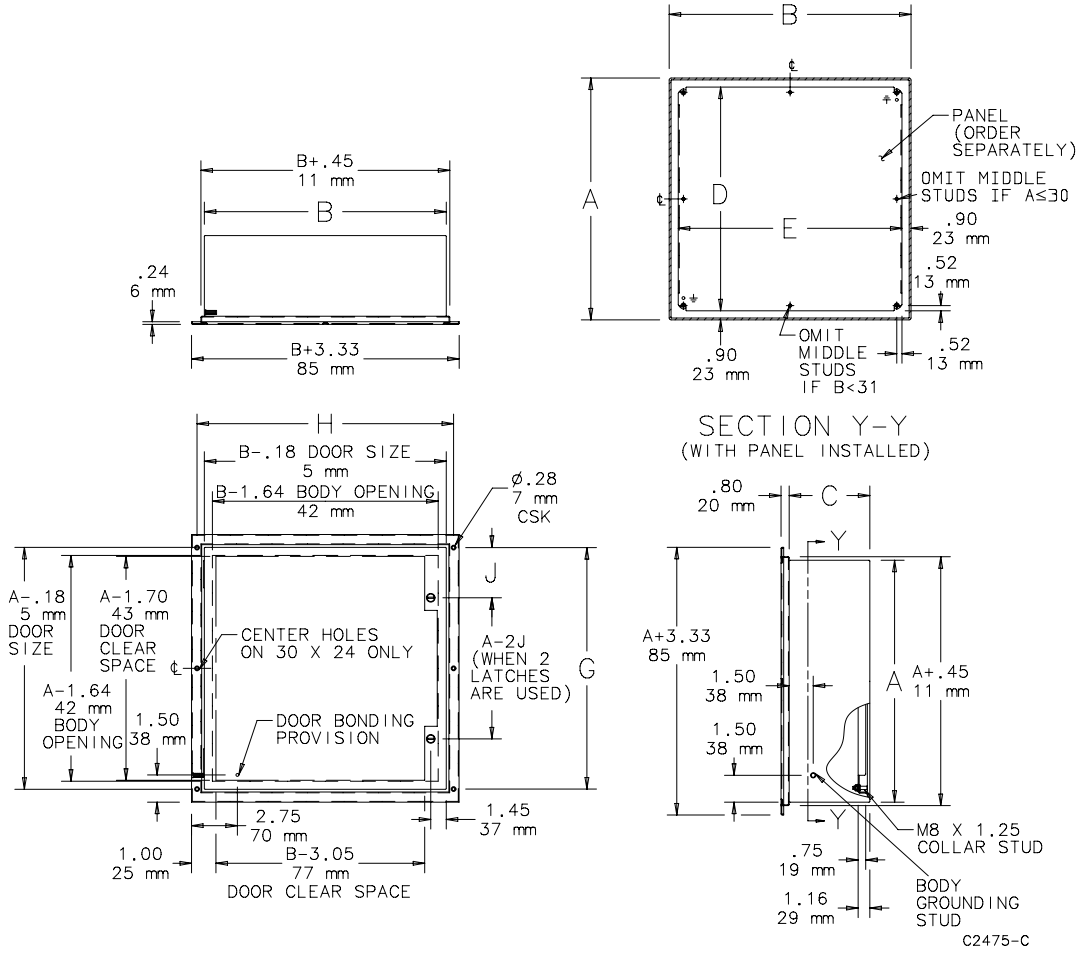
Standard Product **Flush-Mounted Enclosures**

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CFM12126	12.00 x 12.00 x 6.00 305 x 305 x 152	ANSI 61 Gray	16	16	CP1212	CP1212G	10.20 x 10.20 259 x 259	12.75 x 14.25 324 x 362	1	Quarter-turn	6.00 152
CFM12126LG	12.00 x 12.00 x 6.00 305 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP1212	CP1212G	10.20 x 10.20 259 x 259	12.75 x 14.25 324 x 362	1	Quarter-turn	6.00 152
CFM16126	16.00 x 12.00 x 6.00 406 x 305 x 152	ANSI 61 Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	16.75 x 14.25 425 x 362	1	Quarter-turn	8.00 203
CFM16126LG	16.00 x 12.00 x 6.00 406 x 305 x 152	RAL 7035 Lt. Gray	16	16	CP1612	CP1612G	14.20 x 10.20 361 x 259	16.75 x 14.25 425 x 362	1	Quarter-turn	8.00 203
CFM20166	20.00 x 16.00 x 6.00 508 x 406 x 152	ANSI 61 Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	20.75 x 18.25 527 x 463	1	Quarter-turn	10.00 254
CFM20166LG	20.00 x 16.00 x 6.00 508 x 406 x 152	RAL 7035 Lt. Gray	16	16	CP2016	CP2016G	18.20 x 14.20 462 x 361	20.75 x 18.25 527 x 463	1	Quarter-turn	10.00 254
CFM20206	20.00 x 20.00 x 6.00 508 x 508 x 152	ANSI 61 Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	20.75 x 22.25 527 x 565	1	Quarter-turn	10.00 254
CFM20206LG	20.00 x 20.00 x 6.00 508 x 508 x 152	RAL 7035 Lt. Gray	16	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	20.75 x 22.25 527 x 565	1	Quarter-turn	10.00 254
CFM24208	24.00 x 20.00 x 8.00 610 x 508 x 203	ANSI 61 Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	24.75 x 22.25 629 x 565	1	Quarter-turn	12.00 305
CFM24208LG	24.00 x 20.00 x 8.00 610 x 508 x 203	RAL 7035 Lt. Gray	16	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	24.75 x 22.25 629 x 565	1	Quarter-turn	12.00 305
CFM24248	24.00 x 24.00 x 8.00 610 x 610 x 203	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	24.75 x 26.25 629 x 667	2	Quarter-turn	5.00 127
CFM24248LG	24.00 x 24.00 x 8.00 610 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	24.75 x 26.25 629 x 667	2	Quarter-turn	5.00 127
CFM30248	30.00 x 24.00 x 8.00 762 x 610 x 203	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	30.75 x 26.25 781 x 667	2	Quarter-turn	5.00 127
CFM30248LG	30.00 x 24.00 x 8.00 762 x 610 x 203	RAL 7035 Lt. Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	30.75 x 26.25 781 x 667	2	Quarter-turn	5.00 127

Purchase panels separately.

Optional NEMA-size panels require conversion kit Catalog Number CCPM4.

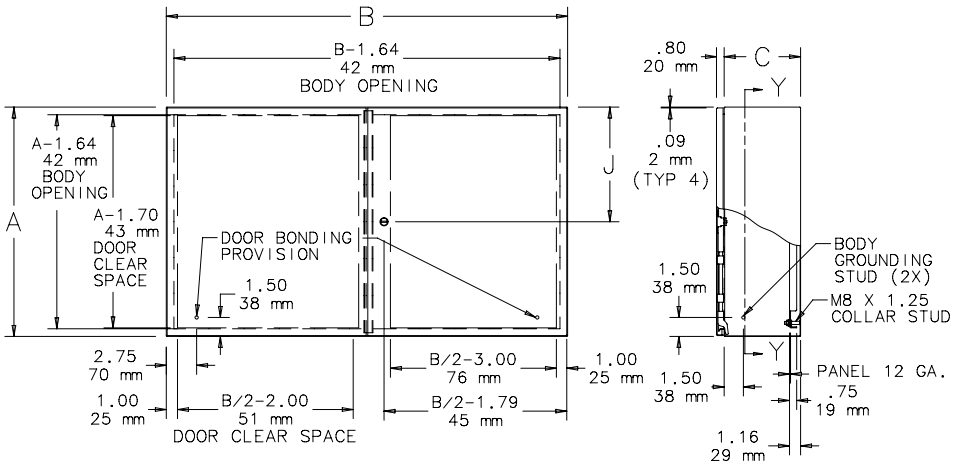


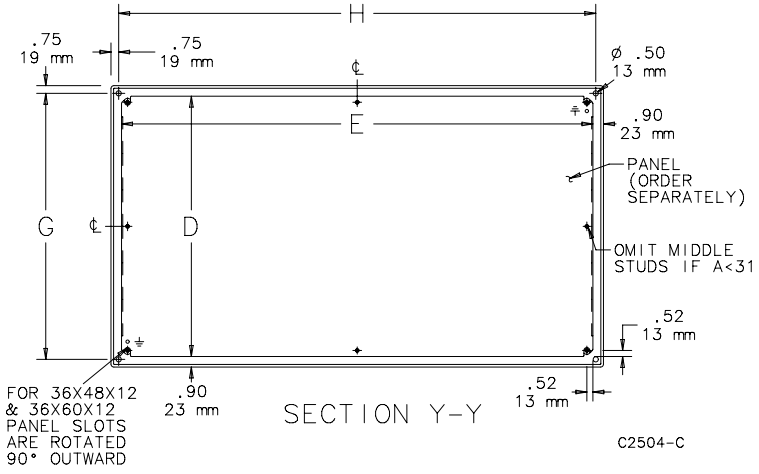
Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in./mm	Finish	Door Ga.	Body Ga.	CONCEPT Panel	Conductive CONCEPT Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches qty.	Latches style	J in./mm
CTD24428	24.00 x 42.00 x 8.00 610 x 1067 x 203	ANSI 61 Gray	14	14	CP2442	CP2442G	22.20 x 40.20 259 x 564	22.50 x 40.50 572 x 1029	1	3-point	12.00 305
CTD24428LG	24.00 x 42.00 x 8.00 610 x 1067 x 203	RAL 7035 Lt. Gray	14	14	CP2442	CP2442G	22.20 x 40.20 259 x 564	22.50 x 40.50 572 x 1029	1	3-point	12.00 305
CTD24488	24.00 x 48.00 x 8.00 610 x 1219 x 203	ANSI 61 Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1174 x 564	22.50 x 46.50 572 x 1181	1	3-point	12.00 305
CTD24488LG	24.00 x 48.00 x 8.00 610 x 1219 x 203	RAL 7035 Lt. Gray	14	14	CP4824	CP4824G	46.20 x 22.20 1174 x 564	22.50 x 46.50 572 x 1181	1	3-point	12.00 305
CTD30488	30.00 x 48.00 x 8.00 762 x 1219 x 203	ANSI 61 Gray	14	14	CP3048	CP3048G	28.20 x 46.20 259 x 716	28.50 x 46.50 724 x 1181	1	3-point	15.00 381
CTD30488LG	30.00 x 48.00 x 8.00 762 x 1219 x 203	RAL 7035 Lt. Gray	14	14	CP3048	CP3048G	28.20 x 46.20 259 x 716	28.50 x 46.50 724 x 1181	1	3-point	15.00 381
CTD244210	24.00 x 42.00 x 10.00 610 x 1067 x 254	ANSI 61 Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	22.50 x 40.50 572 x 1029	1	3-point	12.00 305
CTD244210LG	24.00 x 42.00 x 10.00 610 x 1067 x 254	RAL 7035 Lt. Gray	14	14	CP2442	CP2442G	22.20 x 40.20 564 x 1021	22.50 x 40.50 572 x 1029	1	3-point	12.00 305
CTD304210	30.00 x 42.00 x 10.00 762 x 1067 x 254	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	28.50 x 40.50 724 x 1029	1	3-point	15.00 381
CTD304210LG	30.00 x 42.00 x 10.00 762 x 1067 x 254	RAL 7035 Lt. Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	28.50 x 40.50 724 x 1029	1	3-point	15.00 381
CTD304810	30.00 x 48.00 x 10.00 762 x 1219 x 254	ANSI 61 Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	28.50 x 46.50 724 x 1181	1	3-point	15.00 381
CTD304810LG	30.00 x 48.00 x 10.00 762 x 1219 x 254	RAL 7035 Lt. Gray	14	14	CP3048	CP3048G	28.20 x 46.20 716 x 1174	28.50 x 46.50 724 x 1181	1	3-point	15.00 381
CTD306012	30.00 x 60.00 x 12.00 762 x 1524 x 305	ANSI 61 Gray	14	14	CP3060	CP3060G	28.20 x 58.20 361 x 716	28.50 x 58.50 724 x 1486	1	3-point	15.00 381
CTD306012LG	30.00 x 60.00 x 12.00 762 x 1524 x 305	RAL 7035 Lt. Gray	14	14	CP3060	CP3060G	28.20 x 58.20 361 x 716	28.50 x 58.50 724 x 1486	1	3-point	15.00 381
CTD364212	36.00 x 42.00 x 12.00 914 x 1067 x 305	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	34.50 x 40.50 876 x 1029	1	3-point	18.00 457
CTD364212LG	36.00 x 42.00 x 12.00 914 x 1067 x 305	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	34.50 x 40.50 876 x 1029	1	3-point	18.00 457
CTD364812	36.00 x 48.00 x 12.00 914 x 1219 x 305	ANSI 61 Gray	14	14	CP4836	CP4836G	34.20 x 46.20 462 x 869	34.50 x 46.50 876 x 1181	1	3-point	18.00 457
CTD364812LG	36.00 x 48.00 x 12.00 914 x 1219 x 305	RAL 7035 Lt. Gray	14	14	CP4836	CP4836G	34.20 x 46.20 462 x 869	34.50 x 46.50 876 x 1181	1	3-point	18.00 457
CTD366012	36.00 x 60.00 x 12.00 914 x 1524 x 305	ANSI 61 Gray	14	14	CP6036	CP6036G	34.20 x 58.20 462 x 869	34.50 x 58.50 876 x 1486	1	3-point	18.00 457
CTD366012LG	36.00 x 60.00 x 12.00 914 x 1524 x 305	RAL 7035 Lt. Gray	14	14	CP6036	CP6036G	34.20 x 58.20 462 x 869	34.50 x 58.50 876 x 1486	1	3-point	18.00 457
CTD424212	42.00 x 42.00 x 12.00 1067 x 1067 x 305	ANSI 61 Gray	14	14	CP4242	CP4242G	40.20 x 40.20 1021 x 1021	40.50 x 40.50 1029 x 1029	1	3-point	21.00 533
CTD424212LG	42.00 x 42.00 x 12.00 1067 x 1067 x 305	RAL 7035 Lt. Gray	14	14	CP4242	CP4242G	40.20 x 40.20 1021 x 1021	40.50 x 40.50 1029 x 1029	1	3-point	21.00 533
CTD426012	42.00 x 60.00 x 12.00 1067 x 1524 x 305	ANSI 61 Gray	14	14	CP4260	CP4260G	40.20 x 58.20 101 x 1478	40.50 x 58.50 1029 x 1478	1	3-point	21.00 533
CTD426012LG	42.00 x 60.00 x 12.00 1067 x 1524 x 305	RAL 7035 Lt. Gray	14	14	CP4260	CP4260G	40.20 x 58.20 101 x 1478	40.50 x 58.50 1029 x 1478	1	3-point	21.00 533
CTD484812	48.00 x 48.00 x 12.00 1219 x 1219 x 305	ANSI 61 Gray	14	14	CP4848	CP4848G	46.20 x 46.20 1174 x 1174	46.50 x 46.50 1181 x 1181	1	3-point	24.00 610
CTD484812LG	48.00 x 48.00 x 12.00 1219 x 1219 x 305	RAL 7035 Lt. Gray	14	14	CP4848	CP4848G	46.20 x 46.20 1174 x 1174	46.50 x 46.50 1181 x 1181	1	3-point	24.00 610
CTD364216	36.00 x 42.00 x 16.00 914 x 1067 x 406	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	34.50 x 40.50 876 x 1029	1	3-point	18.00 457
CTD364216LG	36.00 x 42.00 x 16.00 914 x 1067 x 406	RAL 7035 Lt. Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	34.50 x 40.50 876 x 1029	1	3-point	18.00 457

Purchase panels separately.

Optional NEMA-size panels require conversion kit Catalog Number CCPM4.


B
B-1.64
42 mm
BODY OPENING
A-1.64
42 mm
BODY
OPENING
A
A-1.70
43 mm
DOOR
CLEAR
SPACE
DOOR BONDING
PROVISION
1.50
38 mm
J
2.75
70 mm
1.00
25 mm
B/2-2.00
51 mm
DOOR CLEAR SPACE
B/2-3.00
76 mm
B/2-1.79
45 mm
1.00
25 mm
.80
20 mm
C
Y
.09
2 mm
(TYP 4)
1.50
38 mm
BODY
GROUNDING
STUD (2X)
M8 X 1.25
COLLAR STUD
Y
1.50
38 mm
PANEL 12 GA.
.75
19 mm
1.16
29 mm


H
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PANEL
(ORDER
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G
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D
OMIT MIDDLE
STUDS IF A<31
.52
13 mm
FOR 36X48X12
& 36X60X12
PANEL SLOTS
ARE ROTATED
90° OUTWARD
.90
23 mm
SECTION Y-Y
.52
13 mm
C2504-C

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CONCEPT EMC, TYPE 4

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirement.

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12, 13
CSA, File No. 42186: Type 4, 12
VDE IP66
IEC 60529, IP66

APPLICATION

Use stylish CONCEPT EMC Enclosures with their convenient quarter-turn latches in indoor or outdoor applications to contain stray electromagnetic interference (EMI) signals produced by internal components and to shield those components from external EMI/RFI interference.

SPECIFICATIONS

- 18, 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- Minimum width body flange provides maximum door opening
- External formed body flange channels away liquids
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Removable door with hidden hinges for clean, aesthetic appearance
- Door opens 210 degrees
- Corner-formed door
- Hinge mounting brackets for wire management or optional accessories
- Stainless steel spring finger EMI/RFI gasket
- Quarter-turn latches
- Grounding stud on body
- Door bars provided for wire management and bonding
- Hardware kit includes panel mounting nuts screws, grounding hardware and sealing washers
- Simple easy-to-remove and install hinge pins with captivation clip
- High-torque threadless studs and fasteners on door
- Illustrated instruction sheet

FINISH

Exterior and interior painted with RAL 7035 textured light-gray polyester powder paint over plating.

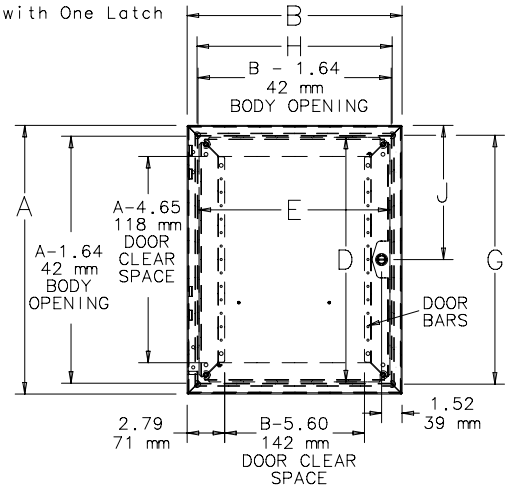
BULLETIN: A53

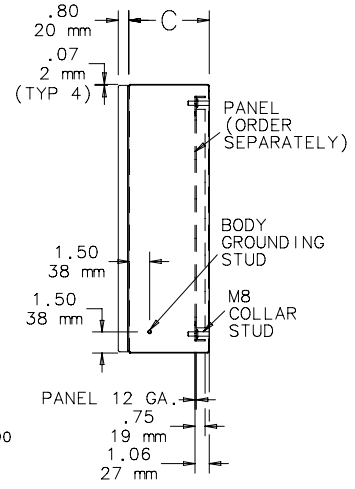
Standard Product

Catalog Number	AxBxC in./mm	Door Ga.	Body Ga.	CONCEPT Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	J in./mm
CSD12126LGEMC	12.00 x 12.00 x 6.00 305 x 305 x 152	16	18	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	1	6.00 152
CSD16126LGEMC	16.00 x 12.00 x 6.00 406 x 305 x 152	16	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	8.00 203
CSD16166LGEMC	16.00 x 16.00 x 6.00 406 x 406 x 152	16	18	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	8.00 203
CSD16206LGEMC	16.00 x 20.00 x 6.00 406 x 508 x 152	16	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	8.00 203
CSD20166LGEMC	20.00 x 16.00 x 6.00 508 x 406 x 152	16	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	18.50 x 14.50 470 x 368	1	10.00 254
CSD24206LGEMC	24.00 x 20.00 x 6.00 610 x 508 x 152	16	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	12.00 305
CSD24248LGEMC	24.00 x 24.00 x 8.00 610 x 610 x 203	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	5.00 127
CSD30248LGEMC	30.00 x 24.00 x 8.00 762 x 610 x 203	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	5.00 127
CSD36308LGEMC	36.00 x 30.00 x 8.00 914 x 762 x 203	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	5.00 127
CSD242412LGEMC	24.00 x 24.00 x 12.00 610 x 610 x 305	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	5.00 127
CSD362412LGEMC	36.00 x 24.00 x 12.00 914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	5.00 127

Purchase panels separately.

Enclosures with One Latch





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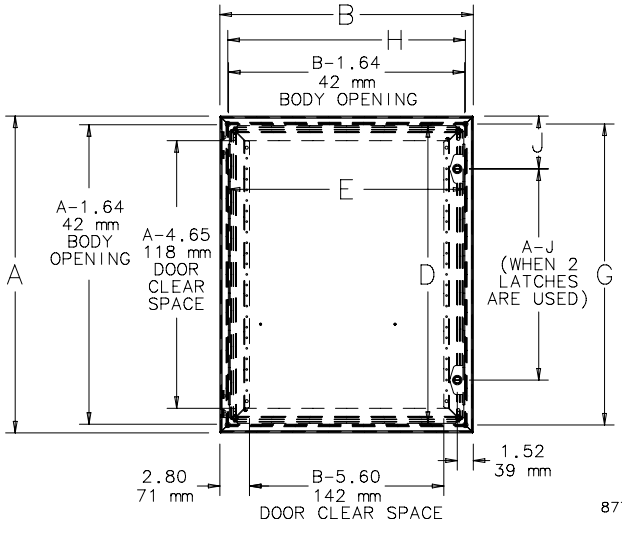
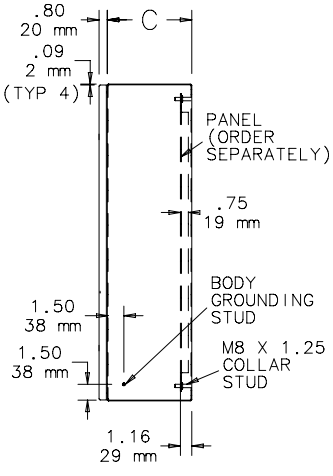
Enclosures with Two Latches





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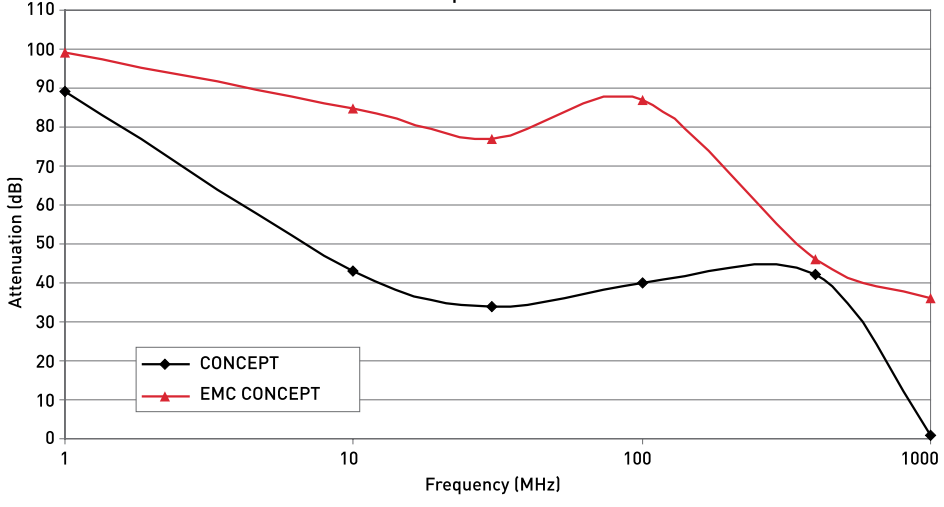
CONCEPT Shielding Effectiveness
Standard CONCEPT Cabinet Compared to EMC Shielded CONCEPT Cabinet



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CONCEPT SLOPED-TOP, TYPE 4

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirement.

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12, 13
CSA, File No. 42186: Type 4, 12
VDE IP66
IEC 60529, IP66

APPLICATION

For machine control applications that require a sloped top, these CONCEPT enclosures feature a 20 degree slope along with streamlined styling, flush quarter-turn latches and an attractive, durable finish.

SPECIFICATIONS

- 16 or 14 gauge steel
- Bonding provision on door and body
- Panel-mounting studs fit optional CONCEPT panels and other accessories
- Corner-formed door
- Simple easy-to-remove and install hinge pins with captivation clip
- High-torque threadless studs and fasteners on door
- Illustrated instruction sheet
- External formed body flange channels away liquids
- Door opens 210 degrees
- Seamless foam-in-place gasket
- Quarter-turn latches
- Mounting holes in back of body for direct mounting or optional external mounting brackets
- Minimum-width body flange provides maximum door opening
- Larger sizes support 19-in. rack mounting
- Door alignment device on doors wider than 30-in.
- Minimum-width body flange provides maximum door opening
- 20-degree sloped top

FINISH

RAL 7035 textured light-gray polyester powder paint inside and out

ACCESSORIES

CONCEPT Panels, page 1444
Door Stop Kit, page 1443
CONCEPT Panel Conversion Kit, page 1440
Handles, page 1442
Lock Inserts, page 1443
Mounting Bracket Kits (CMFK, CMTGFT), page 1402

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

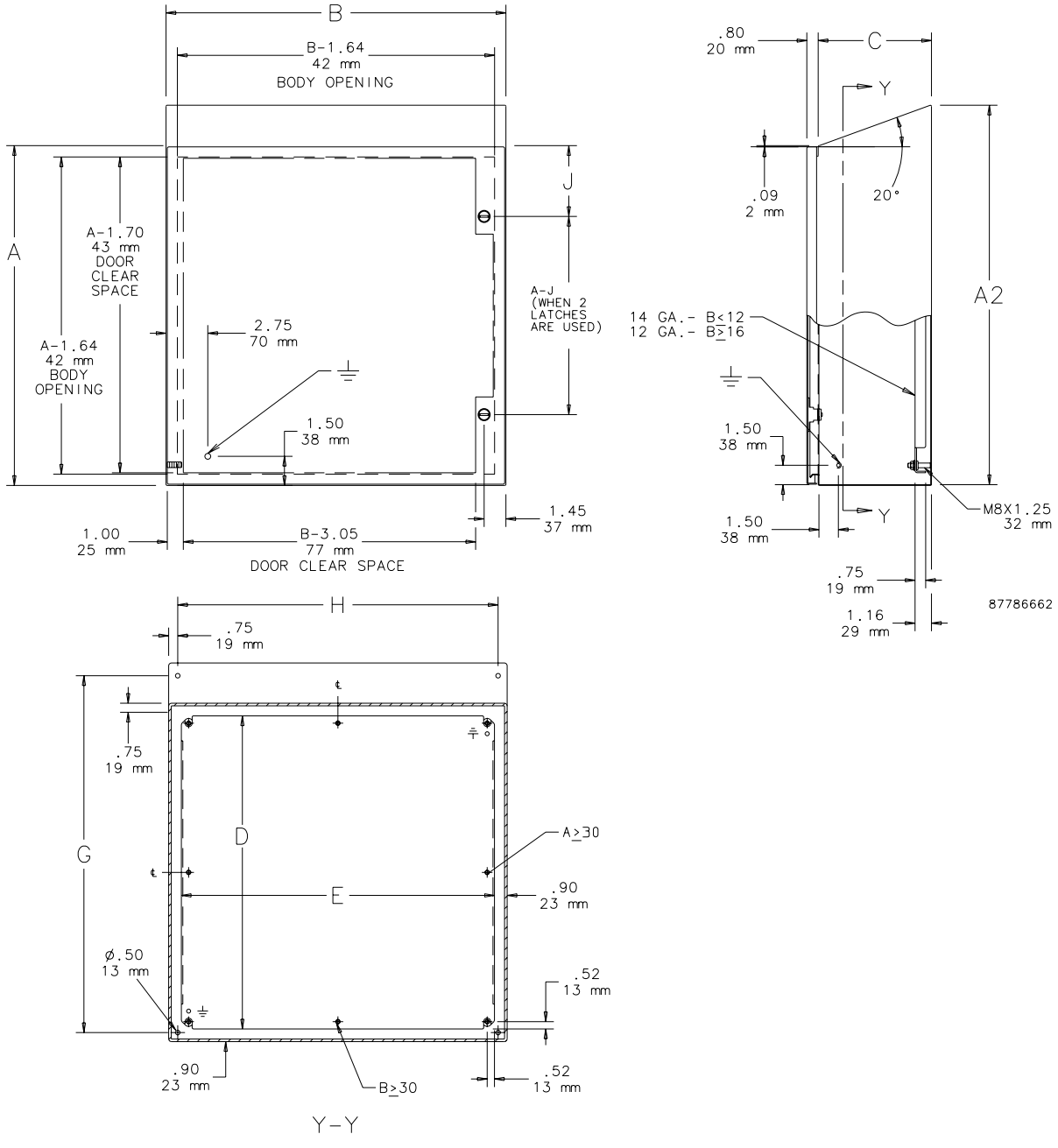
BULLETIN: CW2

Standard Product

Catalog Number	AxBxC in./mm	A2 in./mm	Door Ga.	Body Ga.	Panel	Conductive Panel	Panel Size D in./mm	Panel Size E in./mm	Mounting G x H in./mm	Latch Qty.	Latch style	J in./mm
CSD12126ST	12.00 x 12.00 x 6.00 305 x 305 x 152	14.11 358	16	16	CP1212	CP1212G	10.20 259	10.20 259	12.61 x 10.50 320 x 267	1	Quarter-turn	6.00 152
CSD16168ST	16.00 x 16.00 x 8.00 406 x 406 x 203	18.83 478	16	16	CP1616	CP1616G	14.20 361	14.20 361	17.33 x 14.50 440 x 368	1	Quarter-turn	8.00 203
CSD20168ST	20.00 x 16.00 x 8.00 508 x 406 x 203	22.83 580	16	16	CP2016	CP2016G	18.20 462	14.20 361	21.33 x 14.50 542 x 368	1	Quarter-turn	10.00 254
CSD20208ST	20.00 x 20.00 x 8.00 508 x 508 x 203	22.83 580	16	16	CP2020	CP2020G	18.20 462	18.20 462	21.33 x 18.50 542 x 470	1	Quarter-turn	10.00 254
CSD24208ST	24.00 x 20.00 x 8.00 610 x 508 x 203	26.83 682	16	16	CP2420	CP2420G	22.20 564	18.20 462	25.33 x 18.50 643 x 470	1	Quarter-turn	12.00 305
CSD24248ST	24.00 x 24.00 x 8.00 610 x 610 x 203	26.83 682	14	16	CP2424	CP2424G	22.20 564	22.20 564	25.33 x 22.50 643 x 572	2	Quarter-turn	5.00 127
CSD242410ST	24.00 x 24.00 x 10.00 610 x 610 x 254	27.56 700	14	16	CP2424	CP2424G	22.20 564	22.20 564	26.06 x 22.50 662 x 572	2	Quarter-turn	5.00 127
CSD302410ST	30.00 x 24.00 x 10.00 762 x 610 x 254	33.56 852	14	16	CP3024	CP3024G	28.20 716	22.20 564	32.06 x 22.50 814 x 572	2	Quarter-turn	5.00 127

Catalog Number	AxBxC in./mm	A2 in./mm	Door Ga.	Body Ga.	Panel	Conductive Panel	Panel Size D in./mm	Panel Size E in./mm	Mounting G x H in./mm	Latch Qty.	Latch style	J in./mm
CSD363010ST	36.00 x 30.00 x 10.00 914 x 762 x 254	39.56 1005	14	14	CP3630	CP3630G	34.20 869	28.20 716	38.06 x 28.50 967 x 724	2	Quarter-turn	5.00 127
CSD242412ST	24.00 x 24.00 x 12.00 610 x 610 x 305	28.29 719	14	16	CP2424	CP2424G	22.20 564	22.20 564	26.79 x 22.50 680 x 572	2	Quarter-turn	5.00 127
CSD302412ST	30.00 x 24.00 x 12.00 762 x 610 x 305	34.29 871	14	16	CP3024	CP3024G	28.20 716	22.20 564	32.79 x 22.50 833 x 572	2	Quarter-turn	5.00 127
CSD363012ST	36.00 x 30.00 x 12.00 914 x 762 x 305	40.29 1023	14	14	CP3630	CP3630G	34.20 869	28.20 716	38.79 x 28.50 985 x 724	2	Quarter-turn	5.00 127

Purchase panels separately.



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CONTINUOUS HINGE WITH CLAMPS, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12 and 13
CSA, File No. 42186: Type 12
IEC 60529, IP65

APPLICATION

For applications requiring a bright white interior to increase control visibility, this enclosure includes a padlocking hasp and staple for security and screw-down clamps for secure closure.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- External welded-on mounting brackets for easy installation
- Formed external return flanges around all sides of enclosure opening
- Screw-down door clamps
- Removable heavy-gauge continuous hinge pin
- Hasp and staple for padlocking
- Data pocket is high-impact thermoplastic
- Collar studs for mounting optional panels
- Bonding provision on door
- Removable door with continuous hinge
- Seamless foam-in-place gasket

FINISH

Body: White inside with ANSI 61 gray finish outside.
Door: ANSI 61 gray inside and outside.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Drip Shield Kit for Type 12 Enclosures, page 1372
Electric Heaters, page 1236
Fast-Operating Clamp Assembly, page 1371
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
PANELITE Enclosure Lights, page 1393
HF Side-Mount Filter Fans, page 1168

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A12

Standard Product

Catalog Number	AxBxC in./mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	F in./mm	Number of Clamps	Data Pocket
A122406LP	12.00 x 24.00 x 6.00 305 x 610 x 152	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	3.00 76	2	Small
A161206LP	16.00 x 12.00 x 6.00 406 x 305 x 152	16	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A161606LP	16.00 x 16.00 x 6.00 406 x 406 x 152	16	A16P16	A16P16G	13.00 x 13.00 330 x 330	3.00 76	2	Small
A162006LP	16.00 x 20.00 x 6.00 406 x 508 x 152	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A201206LP	20.00 x 12.00 x 6.00 508 x 305 x 152	16	A20P12	A20P12G	17.00 x 9.00 432 x 229	1.25 32	2	Small
A201606LP	20.00 x 16.00 x 6.00 508 x 406 x 152	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A202006LP	20.00 x 20.00 x 6.00 508 x 508 x 152	16	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A202406LP	20.00 x 24.00 x 6.00 508 x 610 x 152	16	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A241206LP	24.00 x 12.00 x 6.00 610 x 305 x 152	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	1.25 32	2	Small
A241606LP	24.00 x 16.00 x 6.00 610 x 406 x 152	16	A24P16	A24P16G	21.00 x 13.00 533 x 330	3.00 76	2	Small
A242006LP	24.00 x 20.00 x 6.00 610 x 508 x 152	16	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A242406LP	24.00 x 24.00 x 6.00 610 x 610 x 152	16	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A301606LP	30.00 x 16.00 x 6.00 762 x 406 x 152	14	A30P16	A30P16G	27.00 x 13.00 686 x 330	3.00 76	2	Small
A302006LP	30.00 x 20.00 x 6.00 762 x 508 x 152	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A302406LP	30.00 x 24.00 x 6.00 762 x 610 x 152	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A362406LP	36.00 x 24.00 x 6.00 914 x 610 x 152	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A363006LP	36.00 x 30.00 x 6.00 914 x 762 x 152	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large

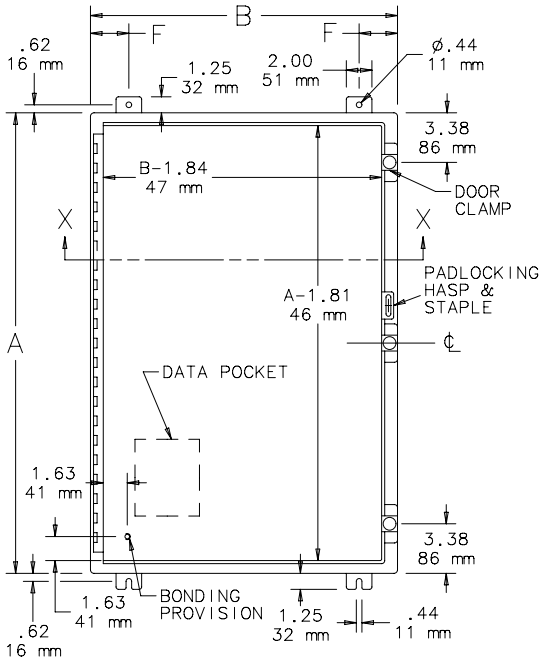
Catalog Number	AxBxC in./mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	F in./mm	Number of Clamps	Data Pocket
A122408LP	12.00 x 24.00 x 8.00 305 x 610 x 203	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	3.00 76	2	Small
A161208LP	16.00 x 12.00 x 8.00 406 x 305 x 203	16	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A161608LP	16.00 x 16.00 x 8.00 406 x 406 x 203	16	A16P16	A16P16G	13.00 x 13.00 330 x 330	3.00 76	2	Small
A162008LP	16.00 x 20.00 x 8.00 406 x 508 x 203	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A201208LP	20.00 x 12.00 x 8.00 508 x 305 x 203	16	A20P12	A20P12G	17.00 x 9.00 432 x 229	1.25 32	2	Small
A201608LP	20.00 x 16.00 x 8.00 508 x 406 x 203	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A202008LP	20.00 x 20.00 x 8.00 508 x 508 x 203	16	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A202408LP	20.00 x 24.00 x 8.00 508 x 610 x 203	16	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A241208LP	24.00 x 12.00 x 8.00 610 x 305 x 203	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	1.25 32	2	Small
A241608LP	24.00 x 16.00 x 8.00 610 x 406 x 203	16	A24P16	A24P16G	21.00 x 13.00 533 x 330	3.00 76	2	Small
A242008LP	24.00 x 20.00 x 8.00 610 x 508 x 203	14	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A242408LP	24.00 x 24.00 x 8.00 610 x 610 x 203	16	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A243008LP	24.00 x 30.00 x 8.00 610 x 762 x 203	14	A30P24G	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Small
A302008LP	30.00 x 20.00 x 8.00 762 x 508 x 203	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A302408LP	30.00 x 24.00 x 8.00 762 x 610 x 203	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A303008LP	30.00 x 30.00 x 8.00 762 x 762 x 203	14	A30P30	A30P30G	27.00 x 27.00 686 x 686	3.00 76	2	Large
A303608LP	30.00 x 36.00 x 8.00 762 x 914 x 203	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A362408LP	36.00 x 24.00 x 8.00 914 x 610 x 203	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A363008LP	36.00 x 30.00 x 8.00 914 x 762 x 203	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A363608LP	36.00 x 36.00 x 8.00 914 x 914 x 203	14	A36P36	A36P36G	33.00 x 33.00 838 x 838	3.00 76	2	Large
A422408LP	42.00 x 24.00 x 8.00 1067 x 610 x 203	14	A42P24	A42P24G	39.00 x 21.00 991 x 533	3.00 76	2	Large
A423008LP	42.00 x 30.00 x 8.00 1067 x 762 x 203	14	A42P30	A42P30G	39.00 x 27.00 991 x 686	3.00 76	2	Small
A423608LP	42.00 x 36.00 x 8.00 1067 x 914 x 203	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large
A482408LP	48.00 x 24.00 x 8.00 1219 x 610 x 203	14	A48P24	A48P24G	45.00 x 21.00 1143 x 533	3.00 76	3	Large
A483008LP	48.00 x 30.00 x 8.00 1219 x 762 x 203	14	A48P30	A48P30G	45.00 x 27.00 1143 x 686	3.00 76	3	Small
A483608LP	48.00 x 36.00 x 8.00 1219 x 914 x 203	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A603608LP	60.00 x 36.00 x 8.00 1524 x 914 x 203	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A161210LP	16.00 x 12.00 x 10.00 406 x 305 x 254	14	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A201610LP	20.00 x 16.00 x 10.00 508 x 406 x 254	14	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A202010LP	20.00 x 20.00 x 10.00 508 x 508 x 254	14	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A241210LP	24.00 x 12.00 x 10.00 610 x 305 x 254	14	A12P24	A12P24G	9.00 x 21.00 229 x 533	1.25 32	2	Small
A242010LP	24.00 x 20.00 x 10.00 610 x 508 x 254	14	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A242410LP	24.00 x 24.00 x 10.00 610 x 610 x 254	14	A24P24G	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A302010LP	30.00 x 20.00 x 10.00 762 x 508 x 254	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A302410LP	30.00 x 24.00 x 10.00 762 x 610 x 254	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A362410LP	36.00 x 24.00 x 10.00 914 x 610 x 254	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A363010LP	36.00 x 30.00 x 10.00 914 x 762 x 254	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A423010LP	42.00 x 30.00 x 10.00 1067 x 762 x 254	14	A42P30	A42P30G	39.00 x 27.00 991 x 686	3.00 76	2	Small
A423610LP	42.00 x 36.00 x 10.00 1067 x 914 x 254	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large

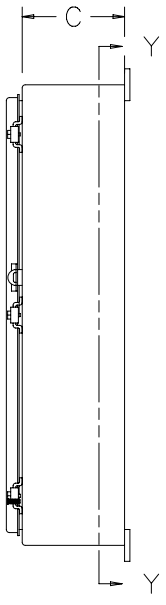
Catalog Number	AxBxC in./mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	F in./mm	Number of Clamps	Data Pocket
A483010LP	48.00 x 30.00 x 10.00 1219 x 762 x 254	14	A48P30	A48P30G	45.00 x 27.00 1143 x 686	3.00 76	3	Small
A483610LP	48.00 x 36.00 x 10.00 1219 x 914 x 254	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A603610LP	60.00 x 36.00 x 10.00 1524 x 914 x 254	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A201612LP	20.00 x 16.00 x 12.00 508 x 406 x 305	14	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A242012LP	24.00 x 20.00 x 12.00 610 x 508 x 305	14	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A242412LP	24.00 x 24.00 x 12.00 610 x 610 x 305	14	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A302412LP	30.00 x 24.00 x 12.00 762 x 610 x 305	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A303012LP	30.00 x 30.00 x 12.00 762 x 762 x 305	14	A30P30	A30P30G	27.00 x 27.00 686 x 686	3.00 76	2	Large
A362412LP	36.00 x 24.00 x 12.00 914 x 610 x 305	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A363012LP	36.00 x 30.00 x 12.00 914 x 762 x 305	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A363612LP	36.00 x 36.00 x 12.00 914 x 914 x 305	14	A36P36	A36P36G	33.00 x 33.00 838 x 838	3.00 76	2	Large
A423012LP	42.00 x 30.00 x 12.00 1067 x 762 x 305	14	A42P30	A42P30G	39.00 x 27.00 991 x 686	3.00 76	2	Small
A423612LP	42.00 x 36.00 x 12.00 1067 x 914 x 305	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large
A483612LP	48.00 x 36.00 x 12.00 1219 x 914 x 305	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A603612LP	60.00 x 36.00 x 12.00 1524 x 914 x 305	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A723612LP	72.00 x 36.00 x 12.00 1829 x 914 x 305	14	A72P36	A72P36G	69.00 x 33.00 1753 x 838	3.00 76	3	Large
A242016LP	24.00 x 20.00 x 16.00 610 x 508 x 406	14	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A242416LP	24.00 x 24.00 x 16.00 610 x 610 x 406	14	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A302416LP	30.00 x 24.00 x 16.00 762 x 610 x 406	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A363016LP	36.00 x 30.00 x 16.00 914 x 762 x 406	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A423616LP	42.00 x 36.00 x 16.00 1067 x 914 x 406	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large
A483616LP	48.00 x 36.00 x 16.00 1219 x 914 x 406	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A603616LP	60.00 x 36.00 x 16.00 1524 x 914 x 406	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A302420LP	30.00 x 24.00 x 20.00 762 x 610 x 508	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A363020LP	36.00 x 30.00 x 20.00 914 x 762 x 508	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A483620LP	48.00 x 36.00 x 20.00 1219 x 914 x 508	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A603620LP	60.00 x 36.00 x 20.00 1524 x 914 x 508	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A302424LP	30.00 x 24.00 x 24.00 762 x 610 x 610	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large

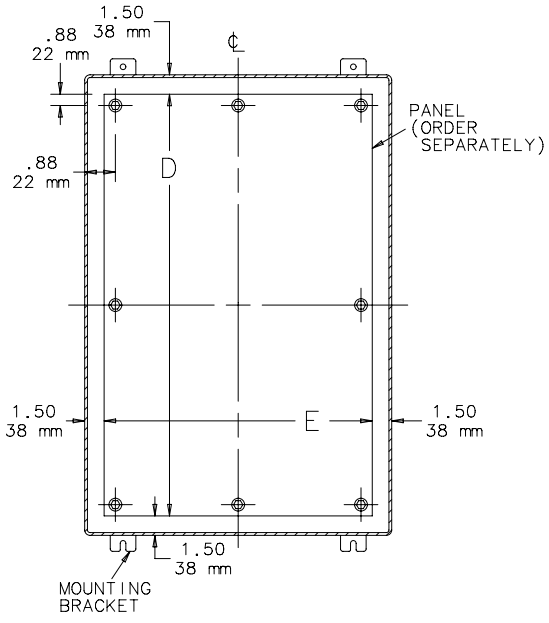
Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.

Small Data Pocket is 6.00 in. x 6.00 in. Large Data Pocket is 12.00 in. x 12.00 in.

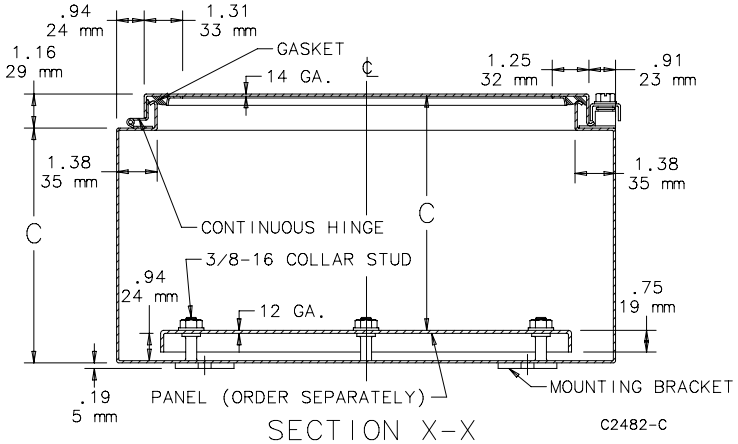
Catalog number A723612LP has an oil-resistant strip gasket instead of foam-in-place gasket.







SECTION Y-Y



SECTION X-X

C2482-C

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CONTINUOUS HINGE TWO-DOOR WITH HANDLE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA, File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

Ideal for larger wall-mount applications requiring ease of installation and access to full-width internal panel. Overlapping door design allows easy access in areas with minimal aisle space.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- External welded-on mounting brackets for easy installation
- External formed body flange channels away liquids
- Gasketed overlapping doors eliminate need for center post
- Oil-tight key-locking handle with 3-point latch
- Removable door with continuous hinge
- Oil-resistant gasket
- Removable heavy gauge continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs for mounting optional panels
- Bonding provision on both doors

FINISH

Body: White inside with ANSI 61 gray finish outside.
Door: ANSI 61 gray inside and outside.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Door Stop Kit, page 1443
TFP Side-Mount Fans, page 1194
PANELITE Enclosure Lights, page 1393
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

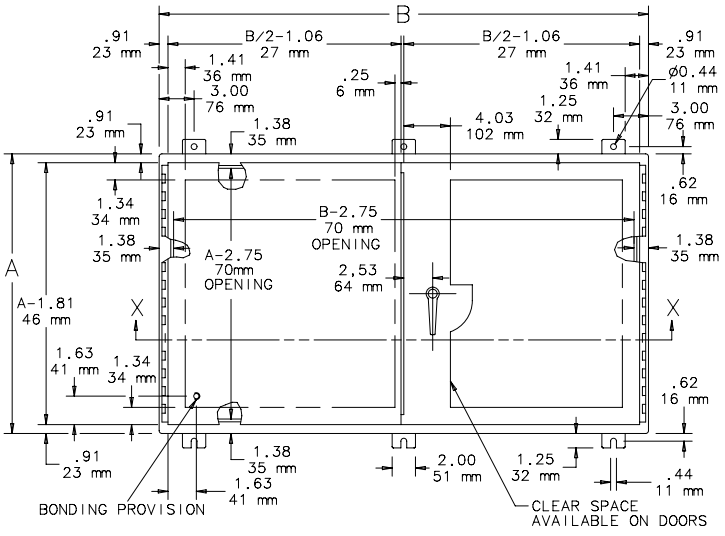
BULLETIN: A12

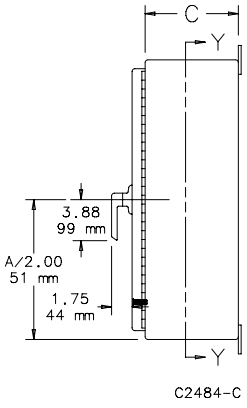
Standard Product

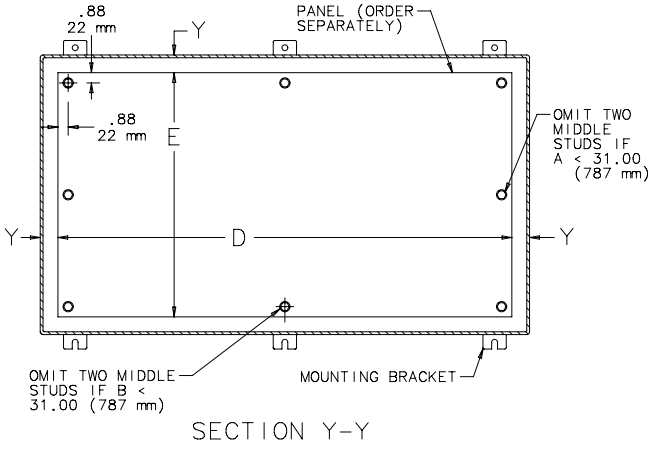
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Gauge	Panel Size D x E in./mm	Y in./mm	Stiffener (Body)
A244208WFLP	24.00 x 42.00 x 8.00 610 x 1067 x 203	A42P24	A42P24G	12	39.00 x 21.00 991 x 533	1.50 38	0
A244808WFLP	24.00 x 48.00 x 8.00 610 x 1219 x 203	A48P24	A48P24G	12	45.00 x 21.00 1143 x 533	1.50 38	0
A304210WFLP	30.00 x 42.00 x 10.00 762 x 1067 x 254	A42P30	A42P30G	12	39.00 x 27.00 991 x 686	1.50 38	0
A304810WFLP	30.00 x 48.00 x 10.00 762 x 1219 x 254	A48P30	A48P30G	12	45.00 x 27.00 1143 x 686	1.50 38	0
A306010WFLP	30.00 x 60.00 x 10.00 762 x 1524 x 254	A60P30	A60P30G	12	57.00 x 27.00 1448 x 686	1.50 38	0
A364212WFLP	36.00 x 42.00 x 12.00 914 x 1067 x 305	A42P36	A42P36G	12	39.00 x 33.00 991 x 838	1.50 38	0
A364812WFLP	36.00 x 48.00 x 12.00 914 x 1219 x 305	A48P36	A48P36G	12	45.00 x 33.00 1143 x 838	1.50 38	0
A366012WFLP	36.00 x 60.00 x 12.00 914 x 1524 x 305	A60P36	A60P36G	12	57.00 x 33.00 1448 x 838	1.50 38	0
A424212WFLP	42.00 x 42.00 x 12.00 1067 x 1067 x 305	A42P42	A42P42G	12	39.00 x 39.00 991 x 991	1.50 38	3
A424812WFLP	42.00 x 48.00 x 12.00 1067 x 1219 x 305	A48P42	A48P42G	12	45.00 x 39.00 1143 x 991	1.50 38	3
A426012WFALP	42.00 x 60.00 x 12.00 1067 x 1524 x 305	A60BFP42	A60BFP42G	10	56.00 x 38.00 1422 x 965	2.00 51	1
A484812WFLP	48.00 x 48.00 x 12.00 1219 x 1219 x 305	A48P48	A48P48G	10	44.00 x 44.00 1118 x 1118	2.00 51	0

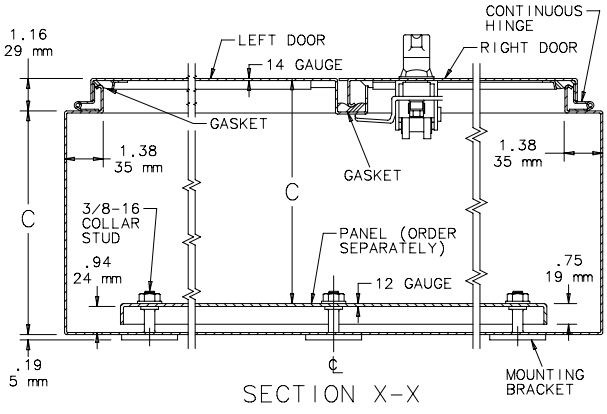
Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.

A484812WFLP back is 10 gauge.


B
.91
23 mm
B/2-1.06
27 mm
1.41
36 mm
3.00
76 mm
.25
6 mm
1.38
35 mm
4.03
102 mm
1.25
32 mm
ø0.44
11 mm
.62
16 mm
1.34
34 mm
B-2.75
70 mm
OPENING
A
A-1.81
46 mm
A-2.75
70mm
OPENING
2,53
64 mm
X
1.63
41 mm
2.00
51 mm
.44
11 mm
BONDING PROVISION
CLEAR SPACE
AVAILABLE ON DOORS


C
Y
3.88
99 mm
A/2.00
51 mm
1.75
44 mm
C2484-C


.88
22 mm
PANEL (ORDER
SEPARATELY)
E
D
OMIT TWO
MIDDLE
STUDS IF
A < 31.00
(787 mm)
OMIT TWO MIDDLE
STUDS IF B <
31.00 (787 mm)
MOUNTING BRACKET
SECTION Y-Y


1.16
29 mm
LEFT DOOR
14 GAUGE
CONTINUOUS
HINGE
RIGHT DOOR
GASKET
1.38
35 mm
C
3/8-16
COLLAR
STUD
.94
24 mm
PANEL (ORDER
SEPARATELY)
12 GAUGE
.75
19 mm
.19
5 mm
MOUNTING
BRACKET
SECTION X-X

nVent | HOFFMAN

CONTINUOUS HINGE WITH CLAMPS, TYPE 4

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997

NEMA/EEMAC Type 3, 4, 12, and 13
CSA, File No. 42186: Type 4 and 12
IEC 60529, IP66

APPLICATION

These single-door enclosures feature a hinged door with clamps on three sides to create a secure seal in indoor or outdoor environments. The gray polyester powder finish inside and out provides enhanced corrosion protection in outdoor applications.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- External welded-on mounting brackets for easy installation
- Formed external flanges around all sides of enclosure opening
- Stainless steel screw-down clamps on three sides of door
- Removable heavy gauge stainless steel continuous hinge pin
- Removable door with continuous hinge for strength and ruggedness
- Hasp and staple for padlocking
- Data pocket is high-impact thermoplastic
- Collar studs for mounting optional panels
- Bonding provision on door
- Oil-resistant gasket

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Industrial Corrosion Inhibitors, page 1378
Fast-Operating Clamp Assembly, page 1371
PANELITE Enclosure Lights, page 1393
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
HOL-SEALERS Hole Seals, page 1374
TFP Side-Mount Fans, page 1194
HF Side-Mount Filter Fans, page 1168

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

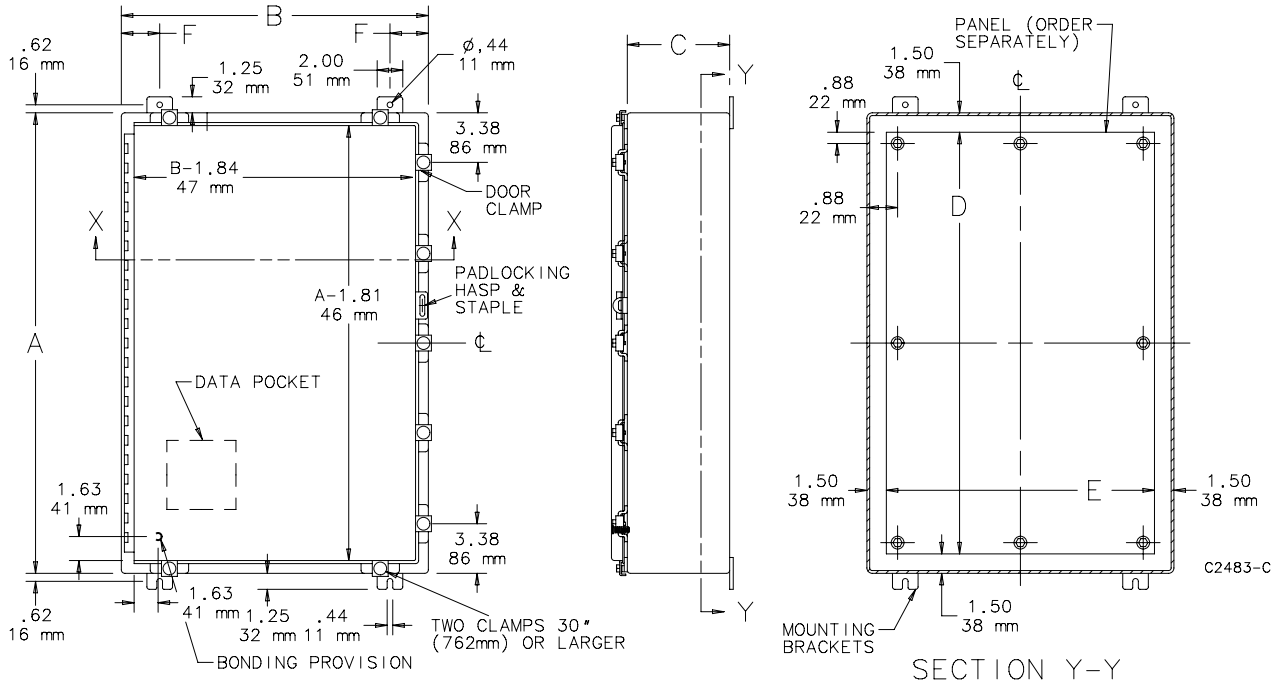
BULLETIN: A4

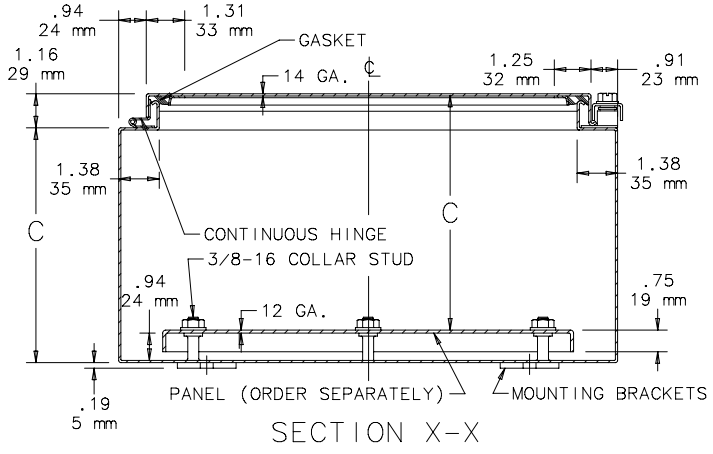
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	F (in.)	F (mm)	Number of Clamps	Data Pocket
A16H12ALP	16.00 x 12.00 x 6.00	406 x 305 x 152	16	A16P12	A16P12G	13.00 x 9.00	330 x 229	1.25	32	4	Small
A16H16ALP	16.00 x 16.00 x 6.00	406 x 406 x 152	16	A16P16	A16P16G	13.00 x 13.00	330 x 330	3.00	76	4	Small
A16H20ALP	16.00 x 20.00 x 6.00	406 x 508 x 152	16	A20P16	A20P16G	17.00 x 13.00	432 x 330	3.00	76	4	Small
A20H16ALP	20.00 x 16.00 x 6.00	508 x 406 x 152	16	A20P16	A20P16G	17.00 x 13.00	432 x 330	3.00	76	4	Small
A20H20ALP	20.00 x 20.00 x 6.00	508 x 508 x 152	16	A20P20	A20P20G	17.00 x 17.00	432 x 432	3.00	76	4	Small
A24H12ALP	24.00 x 12.00 x 6.00	610 x 305 x 152	16	A12P24	A12P24G	9.00 x 21.00	229 x 533	1.25	32	5	Small
A24H16ALP	24.00 x 16.00 x 6.00	610 x 406 x 152	16	A24P16	A24P16G	21.00 x 13.00	533 x 330	3.00	76	5	Small
A24H20ALP	24.00 x 20.00 x 6.00	610 x 508 x 152	16	A24P20	A24P20G	21.00 x 17.00	533 x 432	3.00	76	5	Small
A24H24ALP	24.00 x 24.00 x 6.00	610 x 610 x 152	16	A24P24	A24P24G	21.00 x 21.00	533 x 533	3.00	76	5	Small
A30H20ALP	30.00 x 20.00 x 6.00	762 x 508 x 152	14	A30P20	A30P20G	27.00 x 17.00	686 x 432	3.00	76	5	Small
A30H24ALP	30.00 x 24.00 x 6.00	762 x 610 x 152	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	3.00	76	5	Large
A36H24ALP	36.00 x 24.00 x 6.00	914 x 610 x 152	14	A36P24	A36P24G	33.00 x 21.00	838 x 533	3.00	76	5	Large
A16H12BLP	16.00 x 12.00 x 8.00	406 x 305 x 203	16	A16P12	A16P12G	13.00 x 9.00	330 x 229	1.25	32	4	Small
A20H16BLP	20.00 x 16.00 x 8.00	508 x 406 x 203	16	A20P16	A20P16G	17.00 x 13.00	432 x 330	3.00	76	4	Small
A20H20BLP	20.00 x 20.00 x 8.00	508 x 508 x 203	16	A20P20	A20P20G	17.00 x 17.00	432 x 432	3.00	76	4	Small
A20H24BLP	20.00 x 24.00 x 8.00	508 x 610 x 203	16	A24P20	A24P20G	21.00 x 17.00	533 x 432	3.00	76	4	Small
A24H20BLP	24.00 x 20.00 x 8.00	610 x 508 x 203	16	A24P20	A24P20G	21.00 x 17.00	533 x 432	3.00	76	5	Small
A24H24BLP	24.00 x 24.00 x 8.00	610 x 610 x 203	16	A24P24	A24P24G	21.00 x 21.00	533 x 533	3.00	76	5	Small
A24H30BLP	24.00 x 30.00 x 8.00	610 x 762 x 203	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	3.00	76	7	Small
A30H20BLP	30.00 x 20.00 x 8.00	762 x 508 x 203	14	A30P20	A30P20G	27.00 x 17.00	686 x 432	3.00	76	5	Small
A30H24BLP	30.00 x 24.00 x 8.00	762 x 610 x 203	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	3.00	76	5	Large
A30H30BLP	30.00 x 30.00 x 8.00	762 x 762 x 203	14	A30P30	A30P30G	27.00 x 27.00	686 x 686	3.00	76	7	Large
A36H24BLP	36.00 x 24.00 x 8.00	914 x 610 x 203	14	A36P24	A36P24G	33.00 x 21.00	838 x 533	3.00	76	5	Large
A36H30BLP	36.00 x 30.00 x 8.00	914 x 762 x 203	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	3.00	76	7	Large
A42H30BLP	42.00 x 30.00 x 8.00	1067 x 762 x 203	14	A42P30	A42P30G	39.00 x 27.00	991 x 686	3.00	76	8	Small
A42H36BLP	42.00 x 36.00 x 8.00	1067 x 914 x 203	14	A42P36	A42P36G	39.00 x 33.00	991 x 838	3.00	76	8	Large
A48H36BLP	48.00 x 36.00 x 8.00	1219 x 914 x 203	14	A48P36	A48P36G	45.00 x 33.00	1143 x 838	3.00	76	8	Large
A60H36BLP	60.00 x 36.00 x 8.00	1524 x 914 x 203	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	3.00	76	9	Large
A20H16CLP	20.00 x 16.00 x 10.00	508 x 406 x 254	14	A20P16	A20P16G	17.00 x 13.00	432 x 330	3.00	76	4	Small
A24H20CLP	24.00 x 20.00 x 10.00	610 x 508 x 254	14	A24P20	A24P20G	21.00 x 17.00	533 x 432	3.00	76	5	Small
A30H24CLP	30.00 x 24.00 x 10.00	762 x 610 x 254	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	3.00	76	5	Large
A36H30CLP	36.00 x 30.00 x 10.00	914 x 762 x 254	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	3.00	76	7	Large
A48H30CLP	48.00 x 30.00 x 10.00	1219 x 762 x 254	14	A48P30	A48P30G	45.00 x 27.00	1143 x 686	3.00	76	8	Small
A48H36CLP	48.00 x 36.00 x 10.00	1219 x 914 x 254	14	A48P36	A48P36G	45.00 x 33.00	1143 x 838	3.00	76	8	Large
A60H36CLP	60.00 x 36.00 x 10.00	1524 x 914 x 254	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	3.00	76	9	Large
A30H24DLP	30.00 x 24.00 x 12.00	762 x 610 x 305	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	3.00	76	5	Large
A36H30DLP	36.00 x 30.00 x 12.00	914 x 762 x 305	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	3.00	76	7	Large
A48H36DLP	48.00 x 36.00 x 12.00	1219 x 914 x 305	14	A48P36	A48P36G	45.00 x 33.00	1143 x 838	3.00	76	8	Large

Catalog Number	AxBxC in.	AxBxC mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	F (in.)	F (mm)	Number of Clamps	Data Pocket
A36H30FLP	36.00 x 30.00 x 16.00	914 x 762 x 406	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	3.00	76	7	Large
A48H36FLP	48.00 x 36.00 x 16.00	1219 x 914 x 406	14	48P36	A48P36G	45.00 x 33.00	1143 x 838	3.00	76	8	Large
A60H36FLP	60.00 x 36.00 x 16.00	1524 x 914 x 406	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	3.00	76	9	Large

Purchase panels separately. Optional stainless steel, conductive, composite and aluminum panels are available for most sizes.





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CONTINUOUS HINGE WITH 3-POINT LATCH, TYPE 4

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997

NEMA/EEMAC Type 3, 4, 12, and 13
CSA, File No. 42186: Type 4 and 12
IEC 60529, IP66

APPLICATION

These time-tested, single-door enclosures feature Hoffman's exclusive padlocking POWERGLIDE Handle with 3-point latching for quick and convenient access. Ideal for indoor and outdoor applications, these rigid-bodied enclosures provide superior ease-of-access without sacrificing a secure seal.

SPECIFICATIONS

- 16 or 14 gauge steel
- Internal 3-point latch and padlocking POWERGLIDE Handle for quick, secure access
- Seamless foam-in-place gasket ensures a continuous seal
- 90-degree body flange opening channels away liquids
- External, welded-on mounting feet for easy installation
- Continuous hinge provides strength and ruggedness
- Removable heavy gauge stainless steel continuous hinge pin
- Seams continuously welded and ground smooth

FINISH

ANSI 61 gray

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
PANELITE Enclosure Lights, page 1393
Thermoelectric Coolers Indoor/Outdoor, page 1142
Touch-Up Paint, page 1379
HOL-SEALERS Hole Seals, page 1374

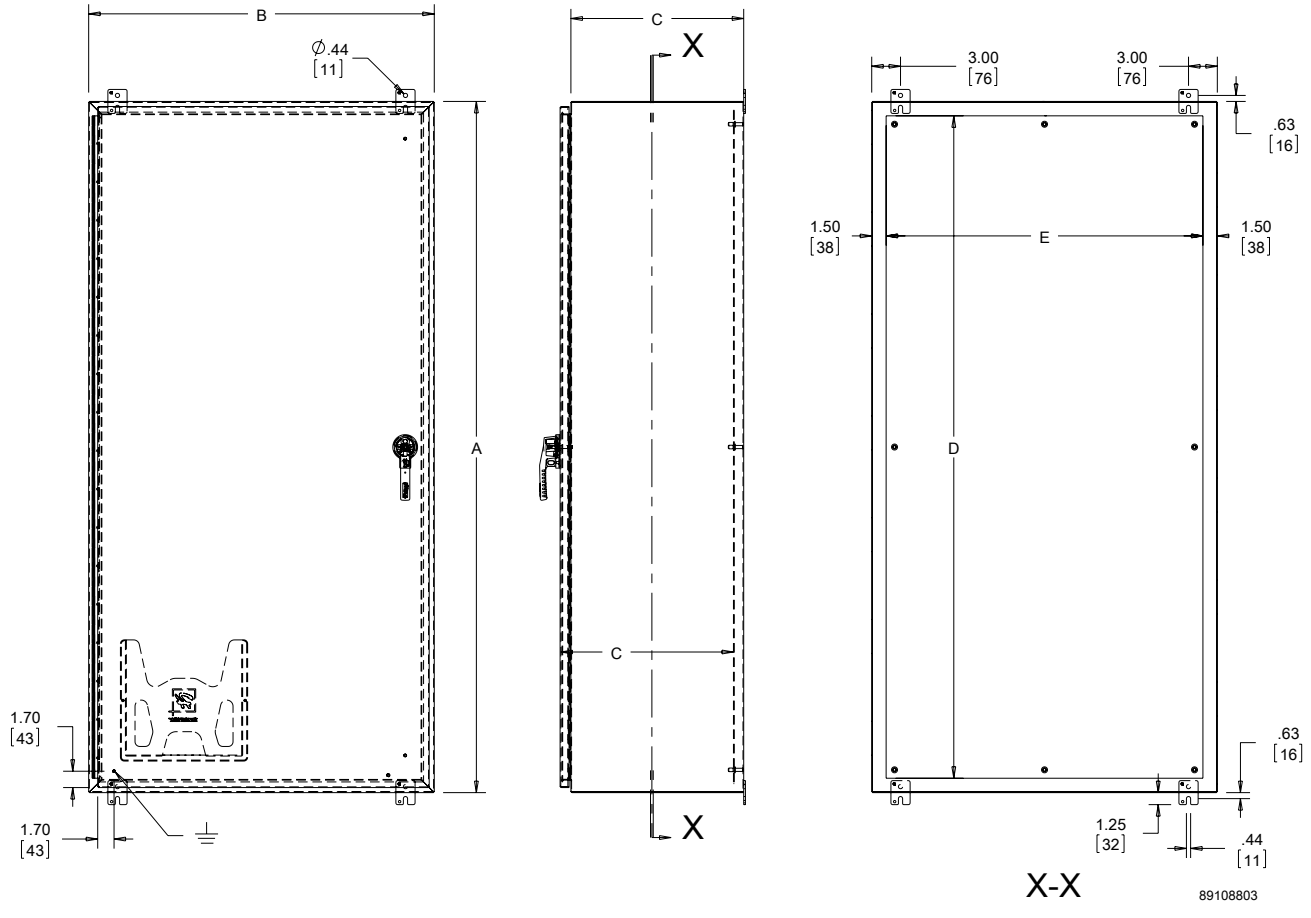
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4W3

Catalog Number	AxBxC in.	AxBxC mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Data Pocket
A16H16ALP3PT	16.00 x 16.00 x 6.00	406 x 406 x 152	16	A16P16	A16P16G	13.00 x 13.00	330 x 330	Small
A20H16ALP3PT	20.00 x 16.00 x 6.00	508 x 406 x 152	16	A20P16	A20P16G	17.00 x 13.00	432 x 330	Small
A24H24ALP3PT	24.00 x 24.00 x 6.00	610 x 610 x 152	16	A24P24	A24P24G	21.00 x 21.00	533 x 533	Small
A20H16BLP3PT	20.00 x 16.00 x 8.00	508 x 406 x 203	16	A20P16	A20P16G	17.00 x 13.00	432 x 330	Small
A20H20BLP3PT	20.00 x 20.00 x 8.00	508 x 508 x 203	16	A20P20	A20P20G	17.00 x 17.00	432 x 432	Small
A24H20BLP3PT	24.00 x 20.00 x 8.00	610 x 508 x 203	16	A24P20	A24P20G	21.00 x 17.00	533 x 432	Small
A24H24BLP3PT	24.00 x 24.00 x 8.00	610 x 610 x 203	16	A24P24	A24P24G	21.00 x 21.00	533 x 533	Small
A30H24BLP3PT	30.00 x 24.00 x 8.00	762 x 610 x 203	14	A30P24	A30P24G	27.00 x 21.00	686 x 533	Small
A30H30BLP3PT	30.00 x 30.00 x 8.00	762 x 762 x 203	14	A30P30	A30P30G	27.00 x 27.00	686 x 686	Small
A36H30BLP3PT	36.00 x 30.00 x 8.00	914 x 762 x 203	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	Small
A36H30CLP3PT	36.00 x 30.00 x 10.00	914 x 762 x 254	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	Small
A36H30DLP3PT	36.00 x 30.00 x 12.00	914 x 762 x 305	14	A36P30	A36P30G	33.00 x 27.00	838 x 686	Small
A48H36DLP3PT	48.00 x 36.00 x 12.00	1219 x 914 x 305	14	A48P36	A48P36G	45.00 x 33.00	1143 838	Small
A60H36DLP3PT	60.00 x 36.00 x 12.00	1524 x 914 x 305	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	Large
A72H36DLP3PT	72.00 x 36.00 x 12.00	1829 x 914 x 305	14	A72P36	A72P36G	69.00 x 33.00	1753 x 838	Large
A48H36FLP3PT	48.00 x 36.00 x 16.00	1219 x 914 x 406	14	A48P36	A48P36G	45.00 x 33.00	1143 x 838	Large
A60H36FLP3PT	60.00 x 36.00 x 16.00	1524 x 914 x 406	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	Large
A72H36FLP3PT	72.00 x 36.00 x 16.00	1829 x 914 x 406	14	A72P36	A72P36G	69.00 x 33.00	1753 x 838	Large
A60H36GLP3PT	60.00 x 36.00 x 18.00	1524 x 914 x 457	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	Large
A72H36GLP3PT	72.00 x 36.00 x 18.00	1829 x 914 x 457	14	A72P36	A72P36G	69.00 x 33.00	1753 x 838	Large
A60H36JLP3PT	60.00 x 36.00 x 24.00	1524 x 914 x 610	14	A60P36	A60P36G	57.00 x 33.00	1448 x 838	Large
A72H36JLP3PT	72.00 x 36.00 x 24.00	1829 x 914 x 610	14	A72P36	A72P36G	69.00 x 33.00	1753 x 838	Large

Purchase panels separately.



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FREE-STAND, TYPE 1

INDUSTRY STANDARDS

UL508A Listed; Type 1; File No. E61997
cUL Listed per CSA C22.2 No. 40; Type 1; File No. E61997

NEMA/EEMAC Type 1
IEC 60529 IP30

APPLICATION

Free-Stand Type 1 Enclosures are an economical way to protect electrical and electronic equipment in applications that do not require extensive environmental protection.

SPECIFICATIONS

- 14 gauge steel body and door; 12 gauge back covers
- 4-in. high 10 gauge steel integral lifting base
- Heights from 48 in. to 84 in. Usable height inside cabinet 4 in. less than nominal height.
- Sturdy 7 gauge lifting tabs
- Flush doors
- 3-point latch with heavy-duty handle
- Padlock provision in handle
- Predrilled holes in lifting base provide bolt-down capability
- Easily reversible doors on single-door models
- Overlapping doors with no center post on two-door models
- Bonding provision on each door
- Studs included for mounting optional panels on threaded bolts
- Optional rack angles mount to top and bottom of front flanges
- Removable back covers

FINISH

RAL 7035 light-gray polyester powder paint inside and outside. Optional panels have white or conductive finish. Rack angles have galvanized finish.

ACCESSORIES

Panels for Free-Stand, Type 1 Two-Door Enclosures, page 101
Rack Angles, page 101
HF Side-Mount Filter Fans, page 1168
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

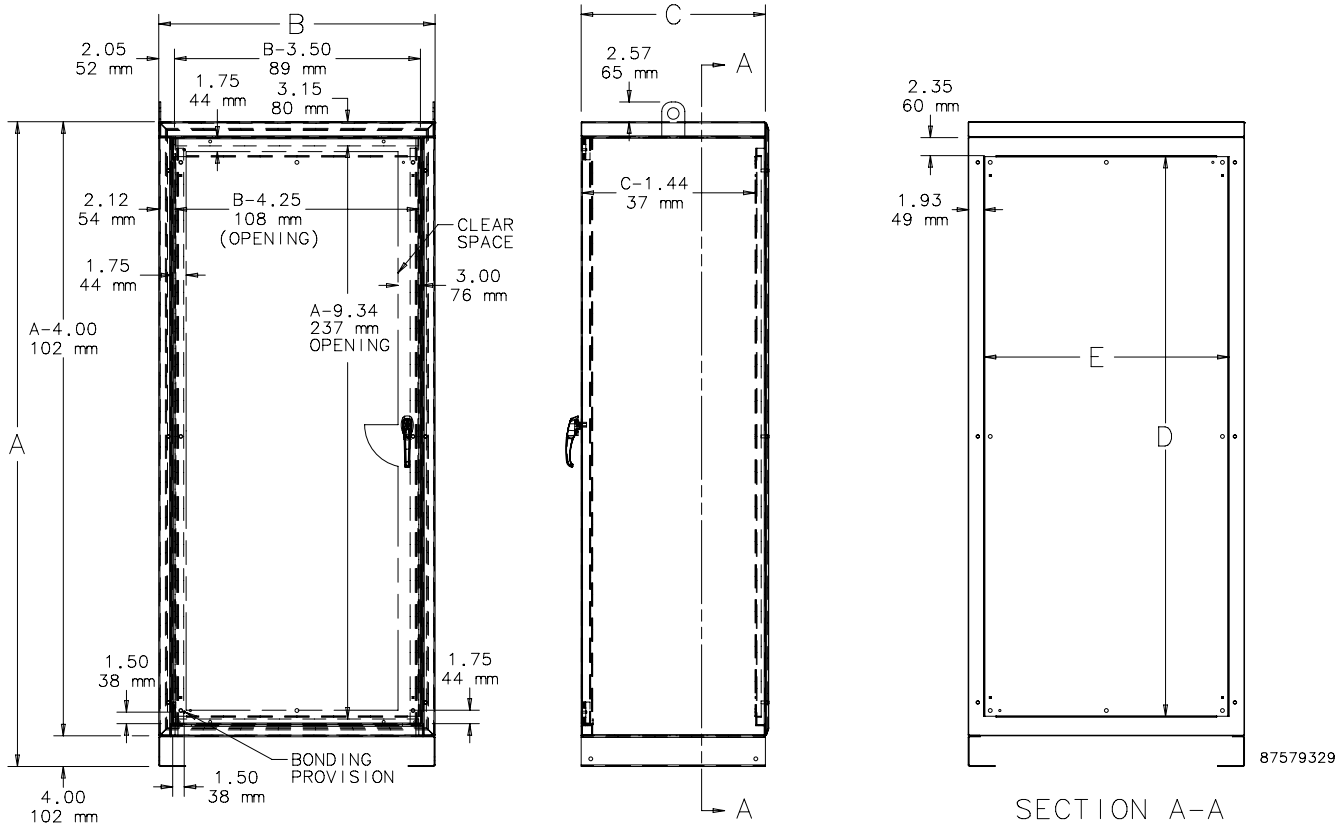
BULLETIN: A38

Standard Product **One-Door Enclosures**

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D in./mm	Panel Size E in./mm
A48N2512FSLP	48.00 x 25.50 x 12.00 1219 x 648 x 305	A37P21N	A37P21NG	37.16 944	21.50 546
A48N2518FSLP	48.00 x 25.50 x 18.00 1219 x 648 x 457	A37P21N	A37P21NG	37.16 944	21.50 546
A60N2512FSLP	60.00 x 25.50 x 12.00 1524 x 648 x 305	A49P21N	A49P21NG	49.16 1249	21.50 546
A60N2518FSLP	60.00 x 25.50 x 18.00 1524 x 648 x 457	A49P21N	A49P21NG	49.16 1249	21.50 546
A60N2524FSLP	60.00 x 25.50 x 24.00 1524 x 648 x 610	A49P21N	A49P21NG	49.16 1249	21.50 546
A72N2518FSLP	72.00 x 25.50 x 18.00 1829 x 648 x 457	A61P21N	A61P21NG	61.16 1553	21.50 546
A84N2518FSLP	84.00 x 25.50 x 18.00 2134 x 648 x 457	A73P21N	A73P21NG	73.16 1858	21.50 546
A60N3618FSLP	60.00 x 36.00 x 18.00 1524 x 914 x 457	A49P32N	A49P32NG	49.16 1249	32.00 813
A72N3618FSLP	72.00 x 36.00 x 18.00 1829 x 914 x 457	A61P32N	A61P32NG	61.16 1553	32.00 813
A72N3624FSLP	72.00 x 36.00 x 24.00 1829 x 914 x 610	A61P32N	A61P32NG	61.16 1553	32.00 813
A84N3624FSLP	84.00 x 36.00 x 24.00 2134 x 914 x 610	A73P32N	A73P32NG	73.16 1858	32.00 813

Purchase panels separately.

Free-Standing Type 1 Single-Door Enclosures Drawing



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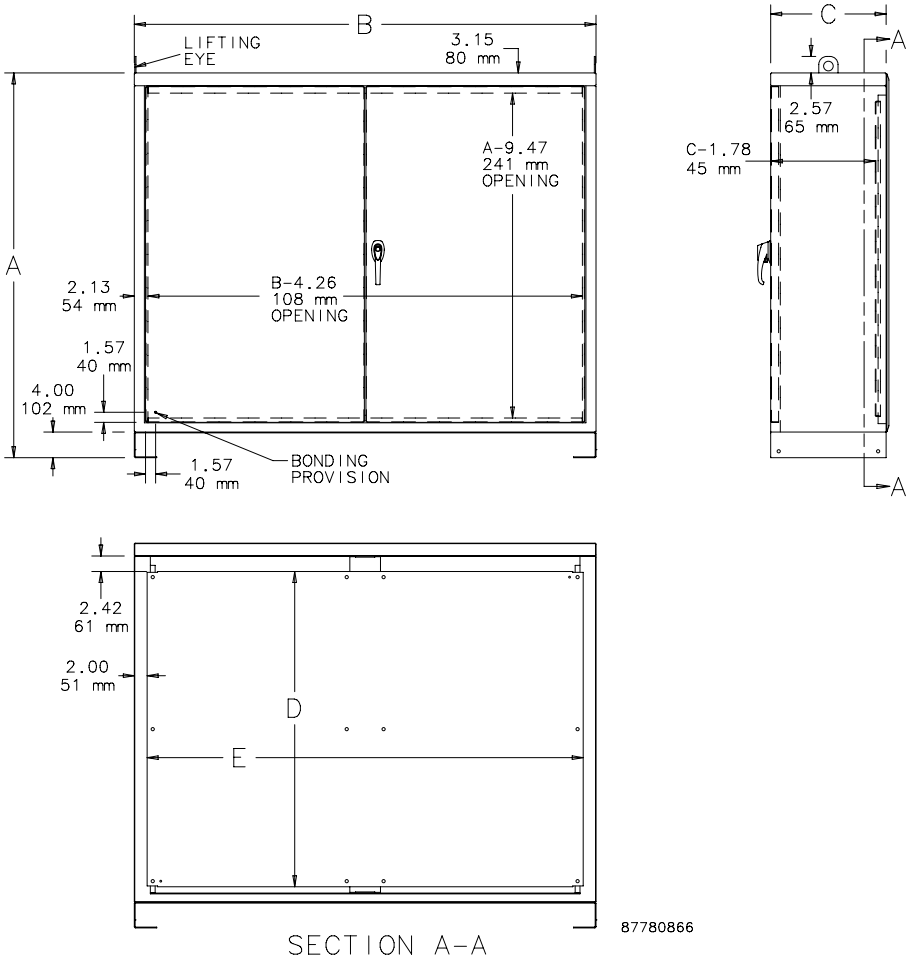
Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D in.	Panel Size E in.
A48N5212FSLP	48.00 x 52.00 x 12.00 1219 x 1321 x 305	A37P48N	A37P48NG	37.16 944	48.00 1219
A48N5218FSLP	48.00 x 52.00 x 18.00 1219 x 1321 x 457	A37P48N	A37P48NG	37.16 944	48.00 1219
A60N5212FSLP	60.00 x 52.00 x 12.00 1524 x 1321 x 305	A49P48N	A49P48NG	49.16 1249	48.00 1219
A60N5218FSLP	60.00 x 52.00 x 18.00 1524 x 1321 x 457	A49P48N	A49P48NG	49.16 1249	48.00 1219
A60N5224FSLP	60.00 x 52.00 x 24.00 1524 x 1321 x 610	A49P48N	A49P48NG	49.16 1249	48.00 1219
A60N7224FSLP	60.00 x 72.00 x 24.00 1524 x 1829 x 610	A49P68N	A49P68NG	49.16 1249	68.00 1727
A72N7218FSLP	72.00 x 72.00 x 18.00 1829 x 1829 x 457	A61P68N	A61P68NG	61.16 1553	68.00 1727
A72N7224FSLP	72.00 x 72.00 x 24.00 1829 x 1829 x 610	A61P68N	A61P68NG	61.16 1553	68.00 1727
A84N7218FSLP	84.00 x 72.00 x 18.00 2134 x 1829 x 457	A73P68N	A73P68NG	73.16 1858	68.00 1727
A84N7224FSLP	84.00 x 72.00 x 24.00 2134 x 1829 x 610	A73P68N	A73P68NG	73.16 1858	68.00 1727

Purchase panels separately.

Free-Standing Type 1 Two-Door Enclosures Drawing



GASKET KITS

Apply self-adhesive strip gaskets for gasketed NEMA 1 solution. Each kit includes sufficient gasket for any one- or two-door enclosure. Choose kit by number of doors.

BULLETIN: A38P

Catalog Number	Description
A38GSKT	For one-door enclosures
A38GSKT2	For two-door enclosures

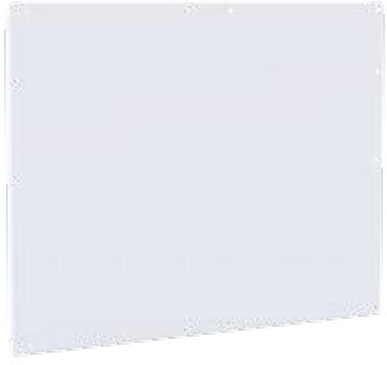
PANELS FOR FREE-STAND, TYPE 1 ONE-DOOR ENCLOSURES

Panels for free-stand, Type 1 one-door standard and disconnect enclosures are 12 gauge steel. Panels have either polyester powder paint finish or a conductive, corrosion-resistant coating.

BULLETIN: A38P

Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)
A37P21N	Painted steel	37.16 x 21.50	944 x 546
A37P21NG	Conductive	37.16 x 21.50	944 x 546
A49P21N	Painted steel	49.16 x 21.50	1249 x 546
A49P21NG	Conductive	49.16 x 21.50	1249 x 546
A61P21N	Painted steel	61.16 x 21.50	1553 x 546
A73P21N	Painted steel	73.16 x 21.50	1858 x 546
A73P21NG	Conductive	73.16 x 21.50	1858 x 546
A49P32N	Painted steel	49.16 x 32.00	1249 x 813
A49P32NG	Conductive	49.16 x 32.00	1249 x 813
A61P32N	Painted steel	61.16 x 32.00	1553 x 813
A61P32NG	Conductive	61.16 x 32.00	1553 x 813
A73P32N	Painted steel	73.16 x 32.00	1858 x 813
A73P32NG	Conductive	73.16 x 32.00	1858 x 813

PANELS FOR FREE-STAND, TYPE 1 TWO-DOOR ENCLOSURES



Panels for free-stand, Type 1 two-door standard and disconnect enclosures are 12 gauge steel. Panels have either polyester powder paint finish or a conductive, corrosion-resistant coating.

BULLETIN: A38P

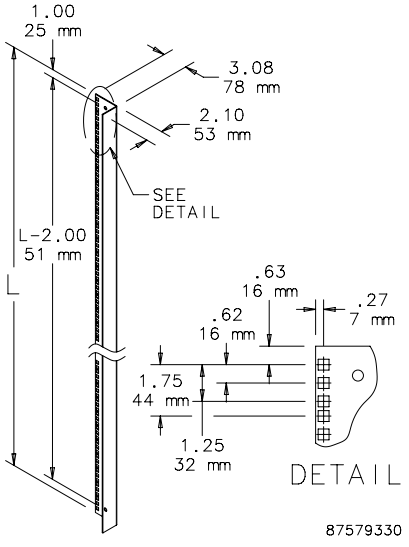
Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)
A37P48N	Painted steel	37.16 x 48.00	944 x 1219
A37P48NG	Conductive	37.16 x 48.00	944 x 1219
A49P48N	Painted steel	49.16 x 48.00	1249 x 1219
A49P48NG	Conductive	49.16 x 48.00	1249 x 1219
A49P68N	Painted steel	49.16 x 68.00	1249 x 1727
A49P68NG	Conductive	49.16 x 68.00	1249 x 1727
A61P68N	Painted steel	61.16 x 68.00	1553 x 1727
A61P68NG	Conductive	61.16 x 68.00	1553 x 1727
A73P68N	Painted steel	73.16 x 68.00	1858 x 1727
A73P68NG	Conductive	73.16 x 68.00	1858 x 1727

RACK ANGLES

Use to install 19-in. wide equipment in 25.5-in. wide enclosures and 23-in. wide equipment in 36-in. wide enclosures. Order two sets for 52- and 72-in. wide two-door enclosures. Galvanized 14 gauge steel with square holes spaced to meet EIA 310-D standards. Mount to factory-drilled holes in top and bottom of front flange. Purchase clip nuts, catalog number AN1032, separately for component mounting.

BULLETIN: A38P

Catalog Number	L in./mm	Kit Qty.
ARA4819THG	41.63 1057	2
ARA6019THG	53.63 1362	2
ARA7219THG	65.63 1667	2
ARA8419THG	77.63 1972	2



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FREE-STAND, TYPE 12, SINGLE OR DUAL ACCESS

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997 cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
E.I.A. RS310D
CSA, File No. 42186, Type 12
IEC 60529, IP55

Applicable industry standards only for enclosures with Seismic Accessories:
NEBS- Telcordia GR-63-CORE Zone 4, tested with 1000lbs evenly distributed
OSHPD Pre-Approval OPM-0247-13

APPLICATION

Available with front or front and rear access, these Type 12 enclosures have sturdy unibody construction and flexible internal mounting options.

SPECIFICATIONS

- 12 gauge steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Stiffeners on back of two-door enclosures maintain flatness and increase rigidity
- Lifting eyes for easy handling
- 3-point latches operated by oil-tight key-locking handle
- Concealed, easy-to-remove hinges
- Data pockets are high-impact thermoplastic
- Internal mounting channels welded horizontally to sides at top, bottom and center
- Optional panels and rack mount angles can be mounted anywhere along channels
- Oil-resistant door gasket
- Bonding provision on door
- Provision for mounting fluorescent light

To meet GR-63-CORE Zone 4 seismic standards, Free-Stand enclosures must include the following accessories (purchased separately):

For Seismic Free-Stand with Panel
- Seismic Mounting Plate Kit
- Seismic Panel Mounting Kit
- Panel, Full-Length

For Seismic Free-Stand with Rack Angles
- Seismic Mounting Plate Kit
- Rack Mounting Angles - L-Style (Type RP), Full

FINISH

Two finishes available: ANSI 61 gray, polyester powder paint outside and inside; or ANSI 61 gray outside and white, polyester powder paint inside. Optional panels available with a white or conductive finish.

ACCESSORIES

Panels, page 1446
Rack Mounting Angle Kit - L Style, page 1418
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
Seismic Mounting Plate Kits, page 1445
Seismic Panel Mounting Kits, page 1445
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374

NOTES

Please visit our Cooling Selection Tool at **nVent.com/HOFFMAN** to explore cooling products for your application.

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A30

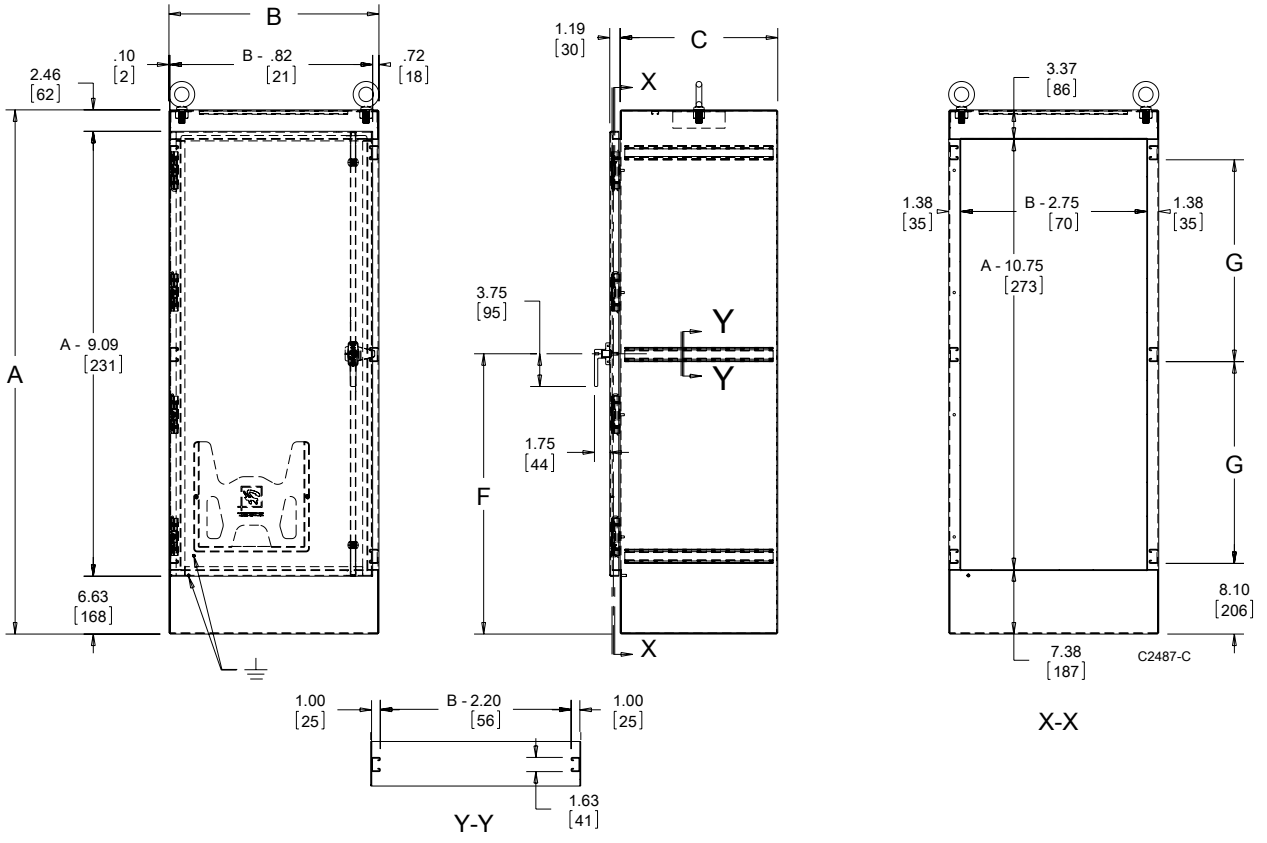
Standard Product **One-Door Single-Access**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	F (in.)	F (mm)	G (in.)	G (mm)	Number of Lifting Eyes	Number of Rack Units
A602418FSG	60.06 x 24.06 x 18.06	1526 x 611 x 459	Gray	32.03	814	23.12	587	2	28
A602418FS	60.06 x 24.06 x 18.06	1526 x 611 x 459	White	32.03	814	23.12	587	2	28
A722418FSG	72.06 x 24.06 x 18.06	1830 x 611 x 459	Gray	38.03	966	29.12	740	2	35
A722418FS	72.06 x 24.06 x 18.06	1830 x 611 x 459	White	38.03	966	29.12	740	2	35
A723018FSG	72.06 x 30.06 x 18.06	1830 x 764 x 459	Gray	38.03	966	29.12	740	2	35
A723018FS	72.06 x 30.06 x 18.06	1830 x 764 x 459	White	38.03	966	29.12	740	2	35
A723618FSG	72.06 x 36.06 x 18.06	1830 x 916 x 459	Gray	38.03	966	29.12	740	2	35
A723618FS	72.06 x 36.06 x 18.06	1830 x 916 x 459	White	38.03	966	29.12	740	2	35
A902420FSG	90.06 x 24.06 x 20.06	2288 x 611 x 510	Gray	47.03	1195	38.12	968	2	45
A902420FS	90.06 x 24.06 x 20.06	2288 x 611 x 510	White	47.03	1195	38.12	968	2	45
A903620FSG	90.06 x 36.06 x 20.06	2288 x 916 x 510	Gray	47.03	1195	38.12	968	2	45
A903620FS	90.06 x 36.06 x 20.06	2288 x 916 x 510	White	47.03	1195	38.12	968	2	45
A603624FSG	60.06 x 36.06 x 24.06	1526 x 916 x 611	Gray	32.03	814	23.12	587	2	28
A603624FS	60.06 x 36.06 x 24.06	1526 x 916 x 611	White	32.03	814	23.12	587	2	28
A722424FSG	72.06 x 24.06 x 24.06	1830 x 611 x 611	Gray	38.03	966	29.12	740	2	35
A722424FS	72.06 x 24.06 x 24.06	1830 x 611 x 611	White	38.03	966	29.12	740	2	35
A723024FSG	72.06 x 30.06 x 24.06	1830 x 764 x 611	Gray	38.03	966	29.12	740	2	35
A723024FS	72.06 x 30.06 x 24.06	1830 x 764 x 611	White	38.03	966	29.12	740	2	35
A723624FSG	72.06 x 36.06 x 24.06	1830 x 916 x 611	Gray	38.03	966	29.12	740	2	35
A723624FS	72.06 x 36.06 x 24.06	1830 x 916 x 611	White	38.03	966	29.12	740	2	35
A903624FSG	90.06 x 36.06 x 24.06	2288 x 916 x 611	Gray	47.03	1195	38.12	968	2	45
A903624FS	90.06 x 36.06 x 24.06	2288 x 916 x 611	White	47.03	1195	38.12	968	2	45
A723630FSG	72.06 x 36.06 x 30.06	1830 x 916 x 764	Gray	38.03	966	29.12	740	4	35
A723630FS	72.06 x 36.06 x 30.06	1830 x 916 x 764	White	38.03	966	29.12	740	4	35
A723636FSG	72.06 x 36.06 x 36.06	1830 x 916 x 916	Gray	38.03	966	29.12	740	4	35
A723636FS	72.06 x 36.06 x 36.06	1830 x 916 x 916	White	38.03	966	29.12	740	4	35
A903636FSG	90.06 x 36.06 x 36.06	2288 x 916 x 916	Gray	47.03	1195	38.12	968	4	45
A903636FS	90.06 x 36.06 x 36.06	2288 x 916 x 916	White	47.03	1195	38.12	968	4	45

Four lifting eyes are furnished if C = 30.06 (764mm) or more.

Removable 12.00 x 12.00 (305mm x 305mm) data pocket included.

Seismic accessories are available for one-door enclosures.



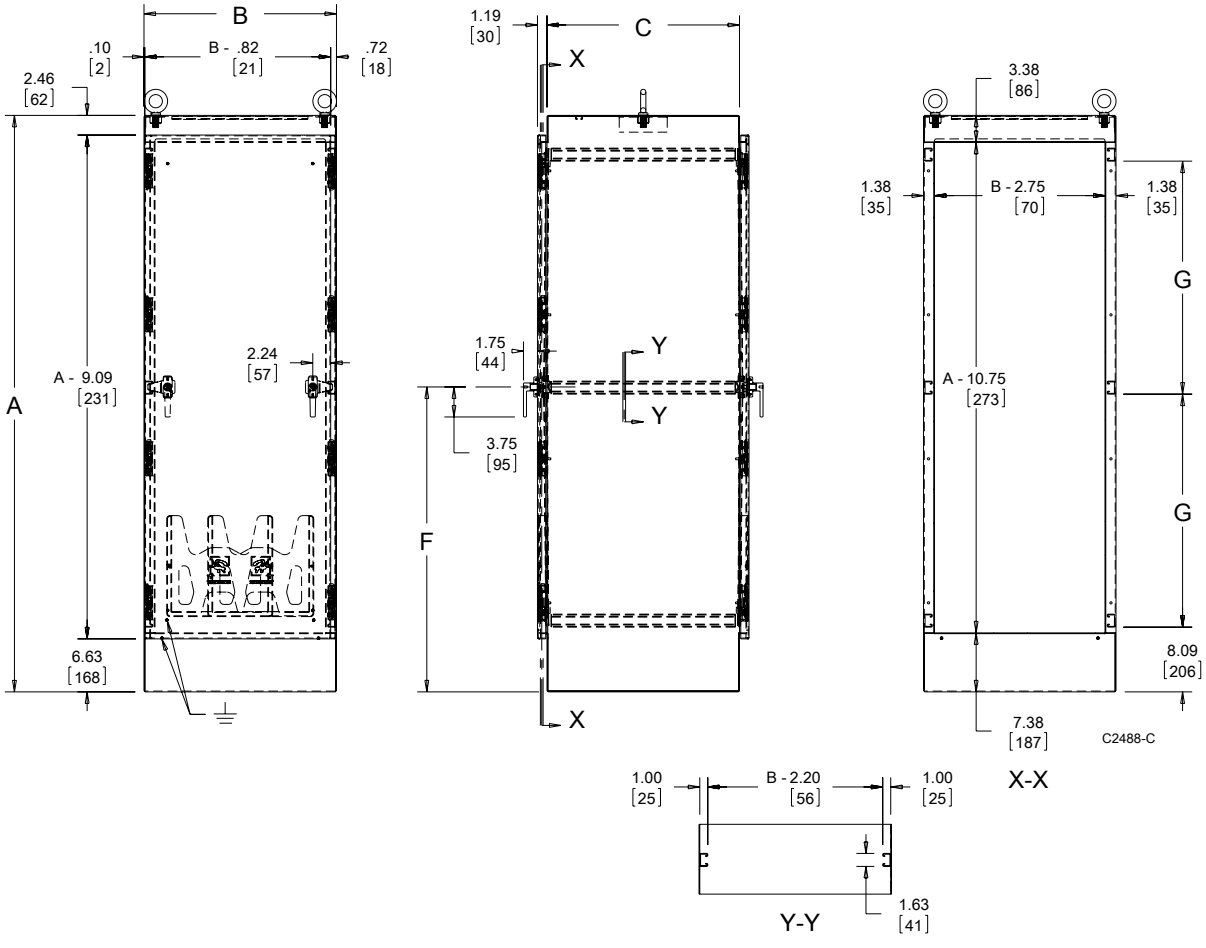
Standard Product **One-Door Dual-Access**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	F (in.)	F (mm)	G (in.)	G (mm)	Number of Lifting Eyes	Number of Rack Units
A722424FSDAG	72.06 x 24.06 x 24.06	1830 x 611 x 611	Gray	38.03	966	29.12	740	2	35
A722424FSDA	72.06 x 24.06 x 24.06	1830 x 611 x 611	White	38.03	966	29.12	740	2	35
A723024FSDAG	72.06 x 30.06 x 24.06	1830 x 764 x 611	Gray	38.03	966	29.12	740	2	35
A723024FSDA	72.06 x 30.06 x 24.06	1830 x 764 x 611	White	38.03	996	29.12	740	2	35
A723624FSDAG	72.06 x 36.06 x 24.06	1830 x 916 x 611	Gray	38.03	966	29.12	740	2	35
A723624FSDA	72.06 x 36.06 x 24.06	1830 x 916 x 611	White	38.03	966	29.12	740	2	35
A903624FSDAG	90.06 x 36.06 x 24.06	2288 x 916 x 611	Gray	47.03	1195	38.12	968	2	45
A903624FSDA	90.06 x 36.06 x 24.06	2288 x 916 x 611	White	47.03	1195	38.12	968	2	45
A722430FSDAG	72.06 x 24.06 x 30.06	1830 x 611 x 764	Gray	38.03	966	29.12	740	4	35
A722430FSDA	72.06 x 24.06 x 30.06	1830 x 611 x 764	White	38.03	966	29.12	740	4	35
A722436FSDAG	72.06 x 24.06 x 36.06	1830 x 611 x 916	Gray	38.03	966	29.12	740	4	35
A722436FSDA	72.06 x 24.06 x 36.06	1830 x 611 x 916	White	38.03	966	29.12	740	4	35
A723636FSDAG	72.06 x 36.06 x 36.06	1830 x 916 x 916	Gray	38.03	966	29.12	740	4	35
A723636FSDA	72.06 x 36.06 x 36.06	1830 x 916 x 916	White	38.03	966	29.12	740	4	35
A903636FSDAG	90.06 x 36.06 x 36.06	2288 x 916 x 916	Gray	47.03	1195	38.12	968	4	45
A903636FSDA	90.06 x 36.06 x 36.06	2288 x 916 x 916	White	47.03	1195	38.12	968	4	45

Four lifting eyes are furnished if C = 30.06 (764mm) or more.

Removable 12.00 x 12.00 (305mm x 305mm) data pocket.

Seismic accessories are available for one-door enclosures.



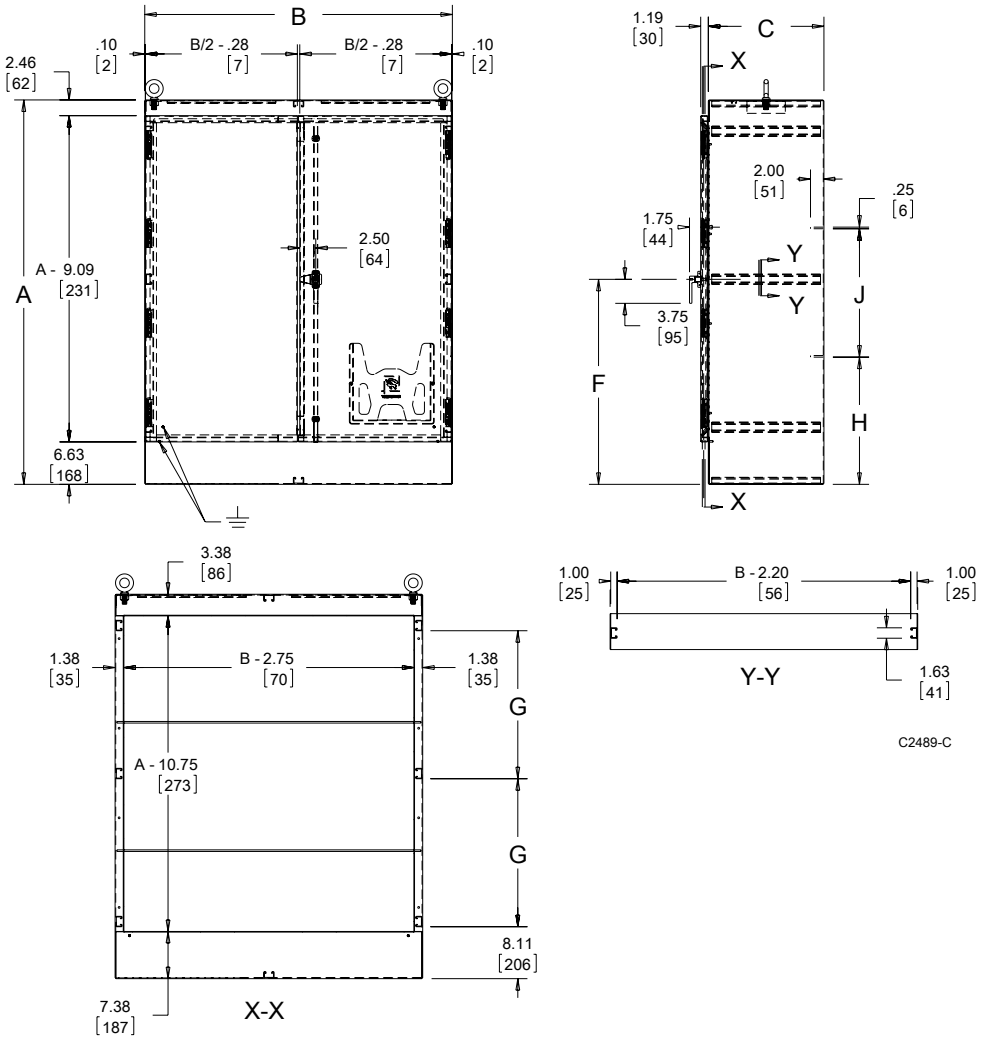
Standard Product **Two-Door Single-Access**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	F (in.)	F (mm)	G (in.)	G (mm)	H (in.)	H (mm)	J (in.)	J (mm)	Number of Lifting Eyes	Number of Rack Units
A604818FSDG	60.06 x 48.06 x 18.06	1526 x 1221 x 459	Gray	32.03	814	23.12	587	19.88	505	20.03	509	2	28
A604818FSD	60.06 x 48.06 x 18.06	1526 x 1221 x 459	White	32.03	814	23.12	587	19.88	505	20.03	509	2	28
A724818FSDG	72.06 x 48.06 x 18.06	1830 x 1221 x 459	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A724818FSD	72.06 x 48.06 x 18.06	1830 x 1221 x 459	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A726018FSDG	72.06 x 60.06 x 18.06	1830 x 1526 x 459	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A726018FSD	72.06 x 60.06 x 18.06	1830 x 1526 x 459	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A727218FSDG	72.06 x 72.06 x 18.06	1830 x 1830 x 459	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A727218FSD	72.06 x 72.06 x 18.06	1830 x 1830 x 459	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A904820FSDG	90.06 x 48.06 x 20.06	2288 x 1221 x 510	Gray	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A904820FSD	90.06 x 48.06 x 20.06	2288 x 1221 x 510	White	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A907220FSDG	90.06 x 72.06 x 20.06	2288 x 1830 x 510	Gray	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A907220FSD	90.06 x 72.06 x 20.06	2288 x 1830 x 510	White	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A724824FSDG	72.06 x 48.06 x 24.06	1830 x 1221 x 611	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A724824FSD	72.06 x 48.06 x 24.06	1830 x 1221 x 611	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A726024FSDG	72.06 x 60.06 x 24.06	1830 x 1526 x 611	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A726024FSD	72.06 x 60.06 x 24.06	1830 x 1526 x 611	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A727224FSDG	72.06 x 72.06 x 24.06	1830 x 1830 x 611	Gray	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A727224FSD	72.06 x 72.06 x 24.06	1830 x 1830 x 611	White	38.03	966	29.12	740	23.88	607	24.03	610	2	35
A907224FSDG	90.06 x 72.06 x 24.06	2288 x 1830 x 611	Gray	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A907224FSD	90.06 x 72.06 x 24.06	2288 x 1830 x 611	White	47.03	1195	38.12	968	29.88	759	30.03	763	2	45
A726036FSDG	72.06 x 60.06 x 36.06	1830 x 1526 x 916	Gray	38.03	966	29.12	740	23.88	607	24.03	610	4	35
A726036FSD	72.06 x 60.06 x 36.06	1830 x 1526 x 916	White	38.03	966	29.12	740	23.88	607	24.03	610	4	35
A907236FSDG	90.06 x 72.06 x 36.06	2288 x 1830 x 916	Gray	47.03	1195	38.12	968	29.88	759	30.03	763	4	45
A907236FSD	90.06 x 72.06 x 36.06	2288 x 1830 x 916	White	47.03	1195	38.12	968	29.88	759	30.03	763	4	45

Four lifting eyes are furnished if C = 30.06 (764mm) or more.

Removable 12.00 x 12.00 (305mm x 305mm) data pocket.

Seismic accessories are not applicable for two-door enclosures.



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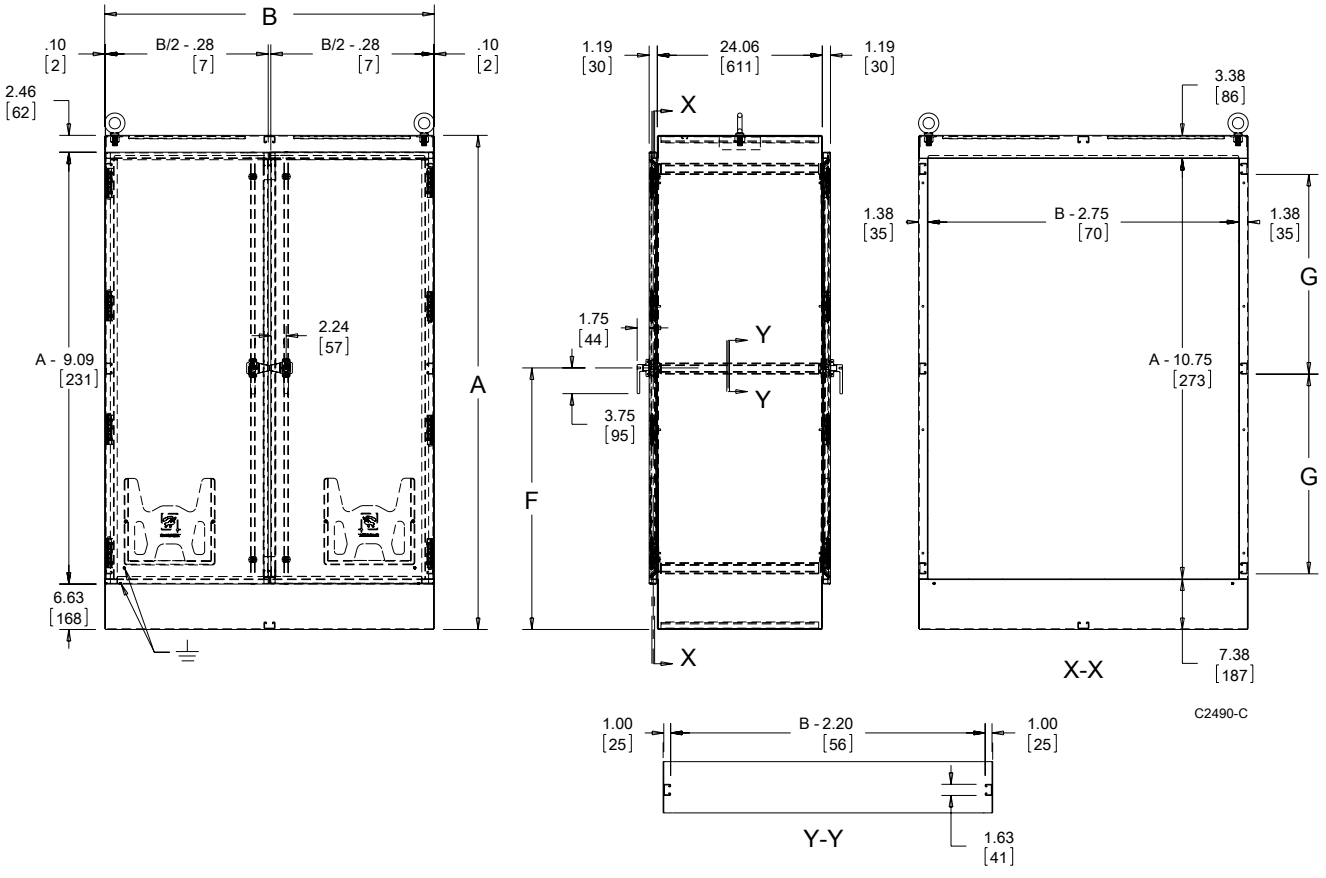
Standard Product **Two-Door Dual-Access**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	F (in.)	F (mm)	G (in.)	G (mm)	Number of Lifting Eyes	Number of Rack Units
A724824FSDADG	72.06 x 48.06 x 24.06	1830 x 1221 x 611	Gray	38.03	966	29.12	740	2	35
A724824FSDAD	72.06 x 48.06 x 24.06	1830 x 1221 x 611	White	38.03	966	29.12	740	2	35
A726024FSDADG	72.06 x 60.06 x 24.06	1830 x 1526 x 611	Gray	38.03	966	29.12	740	2	35
A726024FSDAD	72.06 x 60.06 x 24.06	1830 x 1526 x 611	White	38.03	966	29.12	740	2	35
A727224FSDADG	72.06 x 72.06 x 24.06	1830 x 1830 x 611	Gray	38.03	966	29.12	740	2	35
A727224FSDAD	72.06 x 72.06 x 24.06	1830 x 1830 x 611	White	38.03	966	29.12	740	2	35
A726036FSDADG	72.06 x 60.06 x 36.06	1830 x 1526 x 916	Gray	38.03	966	29.12	740	4	35
A726036FSDAD	72.06 x 60.06 x 36.06	1830 x 1526 x 916	White	38.03	966	29.12	740	4	35
A907224FSDADG	90.06 x 72.06 x 24.06	2288 x 1830 x 611	Gray	47.03	1195	38.12	968	2	45
A907224FSDAD	90.06 x 72.06 x 24.06	2288 x 1830 x 611	White	47.03	1195	38.12	968	2	45

Four lifting eyes are furnished if C = 30.06 (764mm) or more.

Removable 12.00 x 12.00 (305mm x 305mm) data pocket.

Seismic accessories are not applicable for two-door enclosures.



Notes

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FREE-STAND TYPE 12 ENCLOSURE ACCESSORY SELECTION GUIDE

FREE-STAND TYPE 12 ONE-DOOR

(See Accessories for Details)

PANELS

Catalog Number

				One-Door Single-Access Enclosures												One-Door Dual Access Enclosures							
Steel	Conductive	Description	Panel Size	A602418FS	A722418FS	A723018FS	A723618FS	A902420FS	A903620FS	A603624FS	A722424FS	A723024FS	A723624FS	A903624FS	A723630FS	A723636FS	A903636FS	A722424FSDA	A723024FSDA	A723624FSDA	A903624FSDA	A722430FSDA	A722436FSDA	A723636FSDA	A903636FSDA
A60P24F1	A60P24F1G	Full Panel	48.00 x 20.00 (1219 x 508)	•	•[a]			•[a]			•[a]							•[a]				•[a]	•[a]		
A60P24F2	A60P24F2G	Half Panel	24.88 x 20.00 (632 x 508)	•	•[a]			•[a]			•[a]							•[a]				•[a]	•[a]		
A72P24F1	A72P24F1G	Full Panel	60.00 x 20.00 (1524 x 508)		•			•[a]			•							•				•	•		
A72P24F2	A72P24F2G	Half Panel	30.88 x 20.00 (784 x 508)	•[a]	•			•[a]			•							•				•	•		
A90P24F1	A90P24F1G	Full Panel	78.00 x 20.00 (1981 x 508)					•																	
A90P24F2	A90P24F2G	Half Panel	39.00 x 20.00 (1013 x 508)	•[a]	•[a]			•			•[a]							•[a]				•[a]	•[a]		
A72P30F1	A72P30F1G	Full Panel	60.00 x 26.00 (1524 x 660)			•						•							•						
A72P30F2	A72P30F2G	Half Panel	30.88 x 26.00 (784 x 660)			•						•							•						
A60P36F1	A60P36F1G	Full Panel	48.00 x 32.00 (1219 x 813)				•[a]		•[a]	•			•[a]	•[a]	•[a]	•[a]	•[a]			•[a]	•[a]			•[a]	
A60P36F2	A60P36F2G	Half Panel	24.88 x 32.00 (632 x 813)				•[a]		•[a]	•			•[a]	•[a]	•[a]	•[a]	•[a]			•[a]	•[a]			•[a]	
A72P36F1	A72P36F1G	Full Panel	60.00 x 32.00 (1524 x 813)				•						•	•[a]	•	•	•[a]			•	•[a]			•	
A72P36F2	A72P36F2G	Half Panel	30.88 x 32.00 (784 x 813)				•	•[a]	•[a]	•[a]			•	•[a]	•	•	•[a]			•	•[a]			•	
A90P36F1	A90P36F1G	Full Panel	78.00 x 32.00 (1981 x 813)						•					•			•				•				•
A90P36F2	A90P36F2G	Half Panel	39.88 x 32.00 (1013 x 813)				•[a]		•	•[a]			•[a]	•	•[a]	•[a]	•			•[a]	•			•[a]	•

SWING-OUT PANELS

Catalog No.	Description	Panel Size
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)
A72SP24F4	Half Panel[b]	30.88 x 18.81 (784 x 478)
A72AP30F3	Full Panel	60.00 x 24.81 (1524 x 630)
A72AP30F4	Half Panel[b]	30.88 x 24.81 (784 x 630)
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)
A72SP36F4	Half Panel[b]	30.88 x 30.81 (784 x 783)
A90SP36F3	Full Panel	78.00 x 30.81 (1981 x 783)
A90SP36F4	Half Panel[b]	39.88 x 30.81 (1013 x 783)

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SIDE-MOUNT PANELS

Steel	Conductive	Description	Panel Size
A60SMP14	A60SMP14G	14 Wide Panel (356)	48.00 x 14.00 (1219 x 356)
A72SMP14	A72SMP14G	14 Wide Panel (356)	60.00 x 14.00 (1524 x 356)
A90SMP14	A90SMP14G	14 Wide Panel (356)	78.00 x 14.00 (1981 x 356)
A72SMP20	A72SMP20G	20 Wide Panel (508)	60.00 x 20.00 (1524 x 508)
A90SMP20	A90SMP20G	20 Wide Panel (508)	78.00 x 20.00 (1981 x 508)

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										•				•			•				•				•

HEAVY-DUTY PANEL SUPPORTS

Catalog No.	Description	Panel Size
A60FSHDPS	2 Full-Length Panel Supports	57.25 (1454)
A72FSHDPS	2 Full-Length Panel Supports	69.25 (1759)
A90FSHDPS	2 Full-Length Panel Supports	87.25 (2216)

•						•[a]																			
	•	•	•				•	•	•		•	•		•	•	•		•	•	•					
				•	•					•			•				•				•				•

Millimeter dimensions are in parentheses ( )

[a] Requires heavy-duty panel supports

[b] Fits in top half or bottom half of enclosure

FREE-STANDING TYPE 12 TWO-DOOR

(See Accessories for Details)

PANELS

Catalog Number

Steel	Conductive	Description	Panel Size	A604818FSD	A724818FSD	A726018FSD	A727218FSD	A904820FSD	A907220FSD	A724824FSD	A726024FSD	A727224FSD	A907224FSD	A726036FSD	A907236FSD	A724824FSDAD	A726024FSDAD	A727224FSDAD	A907224FSDAD	A726036FSDAD
				Two-Door Single-Access Enclosures												Two-Door Dual Access Enclosures				
A60P24F1	A60P24F1G	Full Panel	48.00 x 20.00 (1219 x 508)	●[b]	●[a,b]			●[a,b]		●[a,b]						●[a,b]				
A60P24F2	A60P24F2G	Half Panel	24.88 x 20.00 (632 x 508)	●[b]	●[a,b]			●[a,b]		●[a,b]						●[a,b]				
A72P24F1	A72P24F1G	Full Panel	60.00 x 20.00 (1524 x 508)		●[b]			●[a,b]		●[b]						●[b]				
A72P24F2	A72P24F2G	Half Panel	30.88 x 20.00 (784 x 508)	●[a,b]	●[b]			●[a,b]		●[b]						●[b]				
A90P24F1	A90P24F1G	Full Panel	78.00 x 20.00 (1981 x 508)					●[b]												
A90P24F2	A90P24F2G	Half Panel	39.00 x 20.00 (1013 x 508)	●[a,b]	●[a,b]			●[b]		●[a,b]						●[a,b]				
A72P30F1	A72P30F1G	Full Panel	60.00 x 26.00 (1524 x 660)			●[b]					●[b]			●[b]			●[b]			●[b]
A72P30F2	A72P30F2G	Half Panel	30.88 x 26.00 (784 x 660)			●[b]					●[b]			●[b]			●[b]			●[b]
A60P36F1	A60P36F1G	Full Panel	48.00 x 32.00 (1219 x 813)				●[a,b]		●[a,b]			●[a,b]	●[a,b]		●[a,b]			●[a,b]	●[a,b]	
A60P36F2	A60P36F2G	Half Panel	24.88 x 32.00 (632 x 813)				●[a,b]		●[a,b]			●[a,b]	●[a,b]		●[a,b]			●[a,b]	●[a,b]	
A72P36F1	A72P36F1G	Full Panel	60.00 x 32.00 (1524 x 813)				●[b]		●[a,b]			●[b]	●[a,b]		●[a,b]			●[b]	●[a,b]	
A72P36F2	A72P36F2G	Half Panel	30.88 x 32.00 (784 x 813)				●[b]	●[a]	●[a,b]			●[b]	●[a,b]		●[a,b]			●[b]	●[a,b]	
A90P36F1	A90P36F1G	Full Panel	78.00 x 32.00 (1981 x 813)						●[b]				●[b]		●[b]				●[b]	
A90P36F2	A90P36F2G	Half Panel	39.88 x 32.00 (1013 x 813)				●[a,b]		●[b]			●[a,b]	●[b]		●[b]			●[a,b]	●[b]	

SWING-OUT PANELS

Catalog No.	Description	Panel Size
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)
A72SP24F4	Half Panel[b]	30.88 x 18.81 (784 x 478)
A72AP30F3	Full Panel	60.00 x 24.81 (1524 x 630)
A72AP30F4	Half Panel[b]	30.88 x 24.81 (784 x 630)
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)
A72SP36F4	Half Panel[b]	30.88 x 30.81 (784 x 783)
A90SP36F3	Full Panel	78.00 x 30.81 (1981 x 783)
A90SP36F4	Half Panel[b]	39.88 x 30.81 (1013 x 783)

	●[b]					●[b]							●[b]							
	●[b]					●[b]							●[b]							
		●[b]					●[b]				●[b]			●[b]			●[b]			●[b]
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			●[b]					●[b]					●[b]					●[b]		
					●[b]					●[b]				●[b]					●[b]	
					●[b]					●[b]				●[b]					●[b]	

SIDE-MOUNT PANELS

Steel	Conductive	Description	Panel Size
A60SMP14	A60SMP14G	14 Wide Panel (356)	48.00 x 14.00 (1219 x 356)
A72SMP14	A72SMP14G	14 Wide Panel (356)	60.00 x 14.00 (1524 x 356)
A90SMP14	A90SMP14G	14 Wide Panel (356)	78.00 x 14.00 (1981 x 356)
A72SMP20	A72SMP20G	20 Wide Panel (508)	60.00 x 20.00 (1524 x 508)
A90SMP20	A90SMP20G	20 Wide Panel (508)	78.00 x 20.00 (1981 x 508)

●[d]																				
	●[d]	●[d]	●[d]			●	●	●		●		●	●	●		●				
				●	●						●									
							●[d]	●[d]	●[d]							●	●	●		
										●[d]		●								

HEAVY-DUTY PANEL SUPPORTS

Catalog No.	Description	Panel Size
A60FSHDPS	2 Full-Length Panel Supports	57.25 (1454)
A72FSHDPS	2 Full-Length Panel Supports	69.25 (1759)
A90FSHDPS	2 Full-Length Panel Supports	87.25 (2216)

●[b]																				
	●[b]	●[b]	●[b]			●[b]	●[b]	●[b]		●[b]		●[b]	●[b]	●[b]		●[b]				●[b]
				●[b]	●[b]						●[b]								●[b]	

Millimeter dimensions are in parentheses ( )
[a] Requires heavy-duty panel supports
[b] Requires center panel supports
[c] Fits in top half or bottom half of enclosure
[d] Will not fit if other panels are also installed in the same enclosure

FREE-STAND TYPE 12 ONE-DOOR

(See Accessories for Details)

PANELS

Catalog Number

Steel	Conductive	Description	Panel Size	One-Door Single-Access Enclosures														One-Door Dual Access Enclosures							
				A602418FS	A722418FS	A723018FS	A723618FS	A902420FS	A903620FS	A603624FS	A722424FS	A723024FS	A723624FS	A903624FS	A723630FS	A723636FS	A903636FS	A722424FSDA	A723024FSDA	A723624FSDA	A903624FSDA	A722430FSDA	A722436FSDA	A723636FSDA	A903636FSDA
A60P48F1	A60P48F1G	Full Panel	48.00 x 44.00 (1219 x 1118)																						
A72P48F1	A72P48F1G	Full Panel	60.00 x 44.00 (1524 x 1118)																						
A72P48F2	A72P48F2G	Half Panel	30.88 x 44.00 (784 x 1118)																						
A90P48F1	A90P48F1G	Full Panel	78.00 x 44.00 (1981 x 1118)																						
A90P48F2	A90P48F2G	Half Panel	39.88 x 44.00 (1013 x 1118)																						
A72P60F1	A72P60F1G	Full Panel	60.00 x 56.00 (1524 x 1422)																						
A72P60F2	A72P60F2G	Half Panel	30.88 x 56.00 (784 x 1422)																						
A72P72F1	A72P72F1G	Full Panel	60.00 x 68.00 (1524 x 1727)																						
A72P72F2	A72P72F2G	Half Panel	30.88 x 68.00 (784 x 1727)																						
A90P72F1	A90P72F1G	Full Panel	78.00 x 68.00 (1981 x 1727)																						
A90P72F2	A90P72F2G	Half Panel	39.88 x 68.00 (1013 x 1727)																						

CENTER PANEL SUPPORTS

Catalog No.	Description
A60FSCPS	Center Panel Support
A72FSCPS	Center Panel Support
A90FSCPS	Center Panel Support

CLAMPING NUTS

Catalog No.	Description
APS1420CN	1/4-20 Clamping Nut (Qty. 20) for special use
APS51616CN	1/4-18 Clamping Nut (Qty. 20) for special use

CASTERS

Catalog No.	Description	Size
DMCKC	Set of 4 Casters	4 high x 3 diameter

19-IN. RACK PANELS

Catalog No.	Description	Rack Panel Size	Rack Units
P19RP1UA	Aluminum Rack Panel	19.00x1.75 (483x44)	1
P19RP2UA	Aluminum Rack Panel	19.00x3.50 (483x89)	2
P19RP3UA	Aluminum Rack Panel	19.00x5.25 (483 x133)	3
P19RP4UA	Aluminum Rack Panel	19.00x7.00 (483x178)	4
P19RP5UA	Aluminum Rack Panel	19.00x8.75 (483x222)	5
P19RP6UA	Aluminum Rack Panel	19.00x10.50 (483x267)	6
P19RP7UA	Aluminum Rack Panel	19.00x12.25 (483x311)	7
P19RP8UA	Aluminum Rack Panel	19.00x14.00 (483x356)	8
P19RP9UA	Aluminum Rack Panel	19.00x15.75 (483x400)	9
P19RP10UA	Aluminum Rack Panel	19.00x17.50 (483x445)	10
P19RP11UA	Aluminum Rack Panel	19.00x19.25 (483x489)	11
P19RP12UA	Aluminum Rack Panel	19.00x21.00 (483x533)	12
P24RP2UA	Aluminum Rack Panel	24.00x3.50 (610x89)	2
P24RP3UA	Aluminum Rack Panel	24.00x5.25 (610x133)	3
P24RP4UA	Aluminum Rack Panel	24.00x7.00 (610x178)	4
P24RP8UA	Aluminum Rack Panel	24.00x14.00 (610x356)	8

Millimeter dimensions are in parentheses ( )
One rack unit= 1.75 in. (45mm)
[b] Requires swing-out rack mounting frame

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FREE-STANDING TYPE 12 TWO-DOOR

(See Accessories for Details)

PANELS

Catalog Number

Steel	Conductive	Description	Panel Size	Two-Door Single-Access Enclosures												Two-Door Dual Access Enclosures				
				A604818FSD	A724818FSD	A726018FSD	A727218FSD	A904820FSD	A907220FSD	A724824FSD	A726024FSD	A727224FSD	A907224FSD	A726036FSD	A907236FSD	A724824FSDAD	A726024FSDAD	A727224FSDAD	A907224FSDAD	A726036FSDAD
A60P48F1	A60P48F1G	Full Panel	48.00 x 44.00 (1219 x 1118)	•	•[a]			•[a]		•[a]						•[a]				
A72P48F1	A72P48F1G	Full Panel	60.00 x 44.00 (1524 x 1118)		•			•[a]		•						•				
A72P48F2	A72P48F2G	Half Panel	30.88 x 44.00 (784 x 1118)	•[a]	•			•[a]		•						•				
A90P48F1	A90P48F1G	Full Panel	78.00 x 44.00 (1981 x 1118)					•												
A90P48F2	A90P48F2G	Half Panel	39.88 x 44.00 (1013 x 1118)		•[a]			•		•[a]						•[a]				
A72P60F1	A72P60F1G	Full Panel	60.00 x 56.00 (1524 x 1422)			•					•			•			•			•
A72P60F2	A72P60F2G	Half Panel	30.88 x 56.00 (784 x 1422)			•					•			•			•			•
A72P72F1	A72P72F1G	Full Panel	60.00 x 68.00 (1524 x 1727)				•		•[a]			•	•[a]		•[a]			•	•[a]	
A72P72F2	A72P72F2G	Half Panel	30.88 x 68.00 (784 x 1727)				•		•[a]			•	•[a]		•[a]	•[a]		•	•[a]	
A90P72F1	A90P72F1G	Full Panel	78.00 x 68.00 (1981 x 1727)						•						•				•	
A90P72F2	A90P72F2G	Half Panel	39.88 x 68.00 (1013 x 1727)				•[a]		•			•[a]	•		•			•[a]	•	

CENTER PANEL SUPPORTS

Catalog No.	Description																		
A60FSCPS	Center Panel Support	•																	
A72FSCPS	Center Panel Support		•	•	•			•	•	•		•		•	•	•			•
A90FSCPS	Center Panel Support					•	•				•		•					•	

CLAMPING NUTS

Catalog No.	Description																		
APS1420CN	1/4-20 Clamping Nut (Qty. 20) for special use	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
APS51616CN	1/4-18 Clamping Nut (Qty. 20) for special use	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

CASTERS

Catalog No.	Description	Size																	
DMCKC	Set of 4 Casters	4 high x 3 diameter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

19-IN. RACK PANELS

Catalog No.	Description	Rack Panel Size	Rack Units																	
P19RP1UA	Aluminum Rack Panel	19.00x1.75 (483x44)	1	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP2UA	Aluminum Rack Panel	19.00x3.50 (483x89)	2	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP3UA	Aluminum Rack Panel	19.00x5.25 (483 x133)	3	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP4UA	Aluminum Rack Panel	19.00x7.00 (483x178)	4	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP5UA	Aluminum Rack Panel	19.00x8.75 (483x222)	5	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP6UA	Aluminum Rack Panel	19.00x10.50 (483x267)	6	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP7UA	Aluminum Rack Panel	19.00x12.25 (483x311)	7	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP8UA	Aluminum Rack Panel	19.00x14.00 (483x356)	8	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP9UA	Aluminum Rack Panel	19.00x15.75 (483x400)	9	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP10UA	Aluminum Rack Panel	19.00x17.50 (483x445)	10	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP11UA	Aluminum Rack Panel	19.00x19.25 (483x489)	11	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P19RP12UA	Aluminum Rack Panel	19.00x21.00 (483x533)	12	•	•	•[b]	•[b]	•	•[b]	•	•[b]	•[b]	•[b]	•[b]	•[b]	•	•[b]	•[b]	•[b]	•[b]
P24RP2UA	Aluminum Rack Panel	24.00x3.50 (610x89)	2			•					•			•			•			•
P24RP3UA	Aluminum Rack Panel	24.00x5.25 (610x133)	3			•					•			•			•			•
P24RP4UA	Aluminum Rack Panel	24.00x7.00 (610x178)	4			•					•			•			•			•
P24RP8UA	Aluminum Rack Panel	24.00x14.00 (610x356)	8			•					•			•			•			•

Millimeter dimensions are in parentheses ( )
One rack unit= 1.75 in. (45mm)
[a] Requires heavy-duty panel supports
[b] Requires swing-out rack mounting frame

FREE-STAND TYPE 12 ONE-DOOR

(See Accessories for Details)

RACK-MOUNT ANGLES L-STYLE (TYPE RP) FOR 19- AND 24-IN. EQUIPMENT

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length	One-Door Single-Access Enclosures														One-Door Dual Access Enclosures							
					A602418FS	A722418FS	A723018FS	A723618FS	A902420FS	A903620FS	A603624FS	A722424FS	A723024FS	A723624FS	A903624FS	A723630FS	A723636FS	A903636FS	A722424FSDA	A723024FSDA	A723624FSDA	A903624FSDA	A722430FSDA	A722436FSDA	A723636FSDA	A903636FSDA
A60RP24F5	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•	•			•			•							•				•	•		
A60RP24F6	2 Half-Length Angles	19 (483)	15	26.25 (677)	•																					
A72RP24F5	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•			•			•							•				•	•		
A72RP24F6	2 Half-Length Angles	19 (483)	18	31.50 (800)	•	•						•							•				•	•		
A90RP24F5	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•																	
A90RP24F6	2 Half-Length Angles	19 (483)	23	40.25 (1022)	•	•			•			•							•				•	•		
A72RP30F5	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•						•							•						
A72RP30F6	2 Half-Length Angles	24 (610)	18	31.50 (800)			•						•							•						

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length																						
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•	•			•			•							•				•	•		
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•			•			•							•				•	•		
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•																	
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•						•							•						

CLIP NUT PACKAGE

Catalog No.	Description	Size	Fits																							
AN1032	Clip Nut (Pkg. 20)	#10-32 Zinc Plated	RA Type Mnt. Angles	•	•	•		•			•	•						•	•			•	•		

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length																						
A7230S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)			•						•							•						
A7236S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)				•						•		•	•				•				•	
A9036S0F19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)						•					•			•				•				•

RACK-ANGLE MOUNTED DRAWERS*

Catalog No.	Description	For Rack Size	Rack Units																							
P19DR1US	Drawer	19.00 (483)	1	•	•			•			•							•				•	•		
P19DR2US	Drawer	19.00 (483)	2	•	•			•			•							•				•	•		
P19DR3US	Drawer	19.00 (483)	3	•	•			•			•							•				•	•		

WRITING SURFACE*

Catalog No.	Description	Fits Drawer																								
P12WS	Hinged Surface	P12DR1US, P12DR2US, P19DR3US		•	•			•			•							•				•	•		

RACK-MOUNT SHELVES*

Catalog No.	Description	Shelf Size	For Rack Size	Rack Units																						
P19SHP68	Sliding Shelf	16.72X16.20 (425x412)	19.00 (483)	2	•	•			•			•							•				•	•		
P19SHP810	Sliding Shelf	24.59x16.20 (625x412)	19.00 (483)	2	•	•			•			•							•				•	•		

GUIDES FOR RACK-MOUNT EQUIPMENT*

Catalog No.	Description	Rack Units																								
AG1U6	Chassis Guides (2)	1	•	•			•			•							•				•	•		

Millimeter dimensions are in parentheses ( )
One rack unit= 1.75 in. (45mm)
[a] Will not fit if other panels are also installed in same enclosure
* Requires Rack Angles

FREE-STANDING TYPE 12 TWO-DOOR

(See Accessories for Details)

RACK-MOUNT ANGLES L-STYLE (TYPE RP) FOR 19- AND 24-IN. EQUIPMENT

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length	Two-Door Single-Access Enclosures												Two-Door Dual Access Enclosures				
					A60481 8FSD	A72481 8FSD	A72601 8FSD	A72721 8FSD	A90482 0FSD	A90722 0FSD	A72482 4FSD	A72602 4FSD	A72722 4FSD	A90722 4FSD	A72603 6FSD	A90723 6FSD	A72482 4FSDAD	A72602 4FSDAD	A72722 4FSDAD	A90722 4FSDAD	A72603 6FSDAD
A60RP24F5	2 Full-Length Angles	19 (483)	28	49.00 (1245)	●[b]	●[b]			●[b]		●[b]						●[b]				
A60RP24F6	2 Half-Length Angles	19 (483)	15	26.25 (677)	●[b]																
A72RP24F5	2 Full-Length Angles	19 (483)	35	61.25 (1556)		●[b]			●[b]		●[b]						●[b]				
A72RP24F6	2 Half-Length Angles	19 (483)	18	31.50 (800)	●[b]	●[b]					●[b]						●[b]				
A90RP24F5	2 Full-Length Angles	19 (483)	45	78.75 (2000)					●[b]												
A90RP24F6	2 Half-Length Angles	19 (483)	23	40.25 (1022)	●[b]	●[b]			●[b]		●[b]						●[b]				
A72RP30F5	2 Full-Length Angles	24 (610)	35	61.25 (1556)			●[b]					●[b]			●[b]			●[b]			●[b]
A72RP30F6	2 Half-Length Angles	24 (610)	18	31.50 (800)			●[b]					●[b]			●[b]			●[b]			●[b]

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)

CLIP NUT PACKAGE

Catalog No.	Description	Size	Fits
AN1032	Clip Nut (Pkg. 20)	#10-32 Zinc Plated	RA Type Mnt. Angles

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog No.	Description	For Rack Size	No. Units[a]	Angle Length
A7230S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A7236S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A9036S0F19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)

RACK-ANGLE MOUNTED DRAWERS*

Catalog No.	Description	For Rack Size	Rack Units
P19DR1US	Drawer	19.00 (483)	1
P19DR2US	Drawer	19.00 (483)	2
P19DR3US	Drawer	19.00 (483)	3

WRITING SURFACE*

Catalog No.	Description	Fits Drawer
P12WS	Hinged Surface	P12DR1US, P12DR2US, P19DR3US

RACK-MOUNT SHELVES*

Catalog No.	Description	Shelf Size	For Rack Size	Rack Units
P19SHP68	Sliding Shelf	16.72X16.20 (425x412)	19.00 (483)	2
P19SHP810	Sliding Shelf	24.59x16.20 (625x412)	19.00 (483)	2

GUIDES FOR RACK-MOUNT EQUIPMENT*

Catalog No.	Description	Rack Units
AG1U6	Chassis Guides (2)	1

Millimeter dimensions are in parentheses ( )
One rack unit= 1.75 in. (45mm)
[a] Will not fit if other panels are also installed in same enclosure
[b] Requires heavy-duty panel supports
* Requires Rack Angles

SEISMIC ACCESSORIES

(See Accessories for Details)

SEISMIC MOUNTING PLATE KITS

Catalog No.	Description	Anchor Size	One-Door, Single Access Enclosures													One-Door, Dual Access Enclosures							
			A602418SSFS	A722418SSFS	A723018SSFS	A723618SSFS	A902420SSFS	A903620SSFS	A603624SSFS	A722424SSFS	A723024SSFS	A723624SSFS	A903624SSFS	A723630SSFS	A723636SSFS	A903636SSFS	A722424SSFSDA	A723024SSFSDA	A723624SSFSDA	A903624SSFSDA	A722430SSFSDA	A722436SSFSDA	A723636SSFSDA	A903636SSFSDA
ASMP12SS	Seismic Mounting Plate, SS, 1/2 in.	1/2 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ASMP58SS	Seismic Mounting Plate, SS, 5/8 in.	5/8 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ASMP34SS	Seismic Mounting Plate, SS, 3/4 in.	3/4 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

SEISMIC PANEL MOUNTING KITS

Catalog No.	Description	Fits Enclosure A in. (mm)																					
ASPANKIT60	Seismic Panel Mounting Kit, 60 in.	60.00 (1524)	•						•														
ASPANKIT72	Seismic Panel Mounting Kit, 72 in.	72.00 (1829)		•	•	•				•	•	•		•	•		•	•	•		•	•	•	•
ASPANKIT90	Seismic Panel Mounting Kit, 90 in.	90.00 (2286)					•	•								•				•				•

PANELS, FULL

Catalog Number																							
Steel	Conductive	Panel Size in. (mm)	Fits Enclosure A x B in. (mm)																				
A60P24F1	A60P24F1G	48.00 x 20.00 (1219 x 508)	60.00 x 24.00 (1524 x 610)	•																			
A72P24F1	A72P24F1G	60.00 x 20.00 (1524 x 508)	72.00 x 24.00 (1829 x 610)		•					•						•				•	•		
A90P24F1	A90P24F1G	78.00 x 20.00 (1981 x 508)	90.00 x 24.00 2286 x 610)					•															
A72P30F1	A72P30F1G	60.00 x 26.00 (1524 x 660)	72.00 x 30.00 (1829 x 762)			•					•						•						
A60P36F1	A60P36F1G	48.00 x 32.00 (1219 x 813)	60.00 x 36.00 (1524 x 914)						•														
A72P36F1	A72P36F1G	60.00 x 32.00 (1524 x 813)	72.00 x 36.00 (1829 x 914)				•					•		•	•			•			•		
A90P36F1	A90P36F1G	78.00 x 32.00 (1981 x 813)	90.00 x 36.00 (2286 x 914)					•					•			•			•				•

RACK MOUNTING ANGLES, L-STYLE (TYPE RP), FULL LENGTH

Catalog No.	Fits Enclosure A x B in. (mm)	For Rack Size in. (mm)																					
A60RP24F5	60.00 x 24.00 (1524 x 610)	19.00 (483)	•																				
A72RP24F5	72.00 x 24.00 (1829 x 610)	19.00 (483)		•						•							•				•	•	
A72RP30F5	72.00 x 30.00 (1829 x 762)	24.00 (610)			•						•							•					
A90RP24F5	90.00 x 24.00 2286 x 610)	19.00 (483)					•																

SEISMIC ACCESSORIES

(See Accesories for Details)

SEISMIC MOUNTING PLATE KITS

Catalog No.	Description	Anchor Size	Two-Door, Single Access Enclosures											Two-Door, Dual Access Enclosures				
			A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD	A724824FSDAD	A726024FSDAD	A727224FSDAD	A907224FSDAD	A726036FSDAD
ASMP12SS	Seismic Mounting Plate, SS, 1/2 in.	1/2 in.																	
ASMP58SS	Seismic Mounting Plate, SS, 5/8 in.	5/8 in.																	
ASMP34SS	Seismic Mounting Plate, SS, 3/4 in.	3/4 in.																	

SEISMIC PANEL MOUNTING KITS

Catalog No.	Description	Fits Enclosure A in. (mm)
ASPANKIT60	Seismic Panel Mounting Kit, 60 in.	60.00 (1524)
ASPANKIT72	Seismic Panel Mounting Kit, 72 in.	72.00 (1829)
ASPANKIT90	Seismic Panel Mounting Kit, 90 in.	90.00 (2286)

PANELS, FULL

Catalog Number		Panel Size in. (mm)	Fits Enclosure A x B in. (mm)
Steel	Conductive		
A60P24F1	A60P24F1G	48.00 x 20.00 (1219 x 508)	60.00 x 24.00 (1524 x 610)
A72P24F1	A72P24F1G	60.00 x 20.00 (1524 x 508)	72.00 x 24.00 (1829 x 610)
A90P24F1	A90P24F1G	78.00 x 20.00 (1981 x 508)	90.00 x 24.00 2286 x 610)
A72P30F1	A72P30F1G	60.00 x 26.00 (1524 x 660)	72.00 x 30.00 (1829 x 762)
A60P36F1	A60P36F1G	48.00 x 32.00 (1219 x 813)	60.00 x 36.00 (1524 x 914)
A72P36F1	A72P36F1G	60.00 x 32.00 (1524 x 813)	72.00 x 36.00 (1829 x 914)
A90P36F1	A90P36F1G	78.00 x 32.00 (1981 x 813)	90.00 x 36.00 (2286 x 914)

RACK MOUNTING ANGLES, L-STYLE (TYPE RP), FULL LENGTH

Catalog No.	Fits Enclosure A x B in. (mm)	For Rack Size in. (mm)
A60RP24F5	60.00 x 24.00 (1524 x 610)	19.00 (483)
A72RP24F5	72.00 x 24.00 (1829 x 610)	19.00 (483)
A72RP30F5	72.00 x 30.00 (1829 x 762)	24.00 (610)
A90RP24F5	90.00 x 24.00 2286 x 610)	19.00 (483)

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FREE-STAND, MULTI-DOOR, TYPE 12

SPECIFICATIONS

- 12-gauge steel (.121-inch)
- Seams continuously welded and ground smooth; no holes or knockouts
- Heavy steel back stiffeners maintain flatness and increase rigidity
- Heavy-duty lifting eyes anchored into reinforced top
- Overlapping, gasketed openings on two-door centerposts
- At two-door openings, gasketed overlapping doors eliminate need for centerposts
- Three-point latches operated by padlocking handle
- Concealed, easy-to-remove hinges
- Mechanical interlock standard on each enclosure with right-hand door serving as master door; doors can be closed in any order
- Panel supports
- Large data pocket is high-impact thermoplastic
- Oil-resistant door gasket
- Panel mounting studs
- Available with panels included or panels purchased separately
- Bonding provision on doors
- Provisions for mounting fluorescent lights

FINISH

Two finishes available: ANSI 61 gray, polyester paint outside and inside; or ANSI 61 polyester paint outside and white polyester paint inside.

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA, File No. 42186, Type 12
IEC 60529, IP55

APPLICATION

Enclosures are available with three, four or five doors for housing larger control systems in industrial environments.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

NOTES

Please visit our Cooling Selection Tool at **nVent.com/HOFFMAN** to explore cooling products for your application.

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

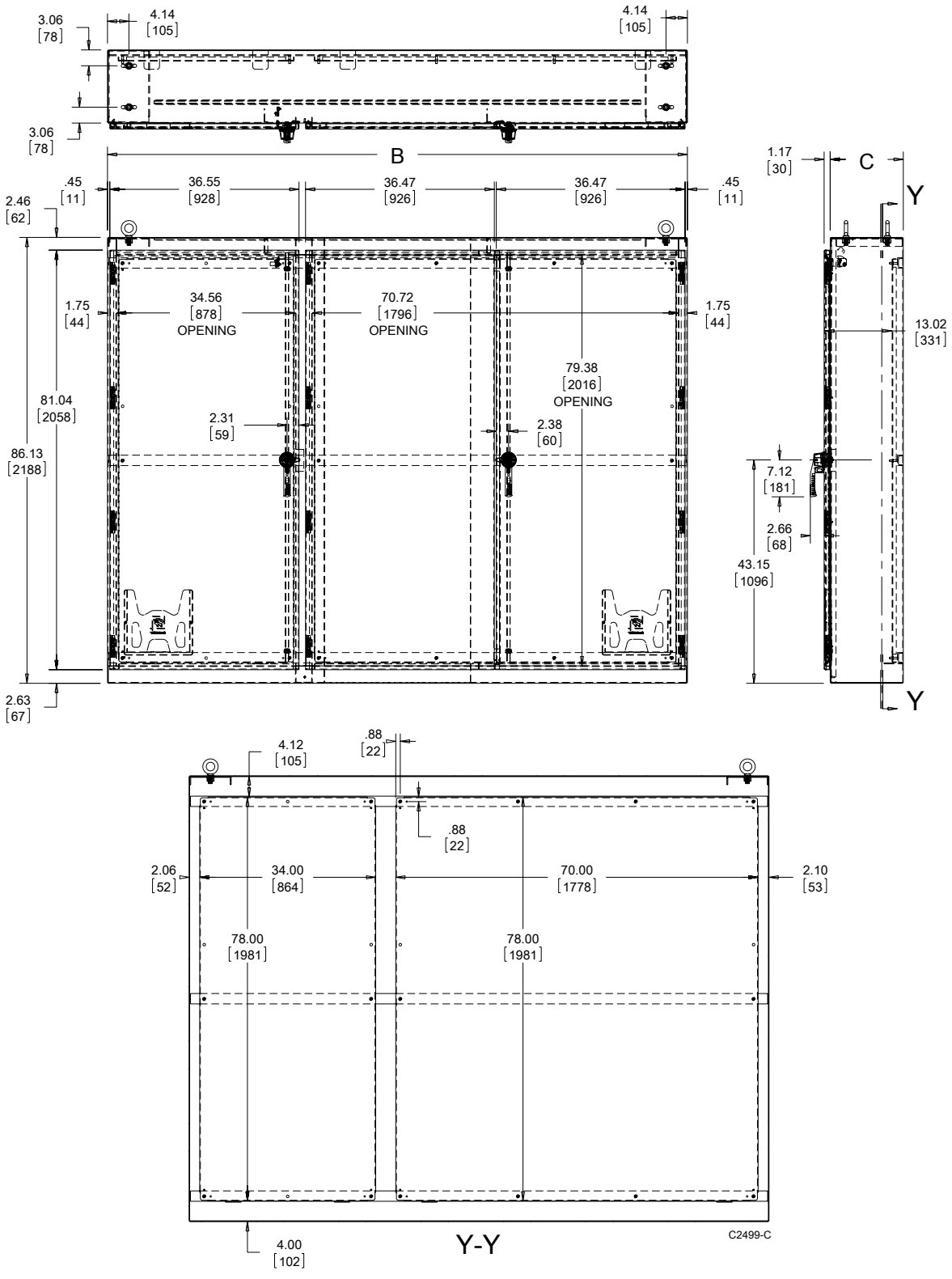
BULLETIN: A27

Standard Product

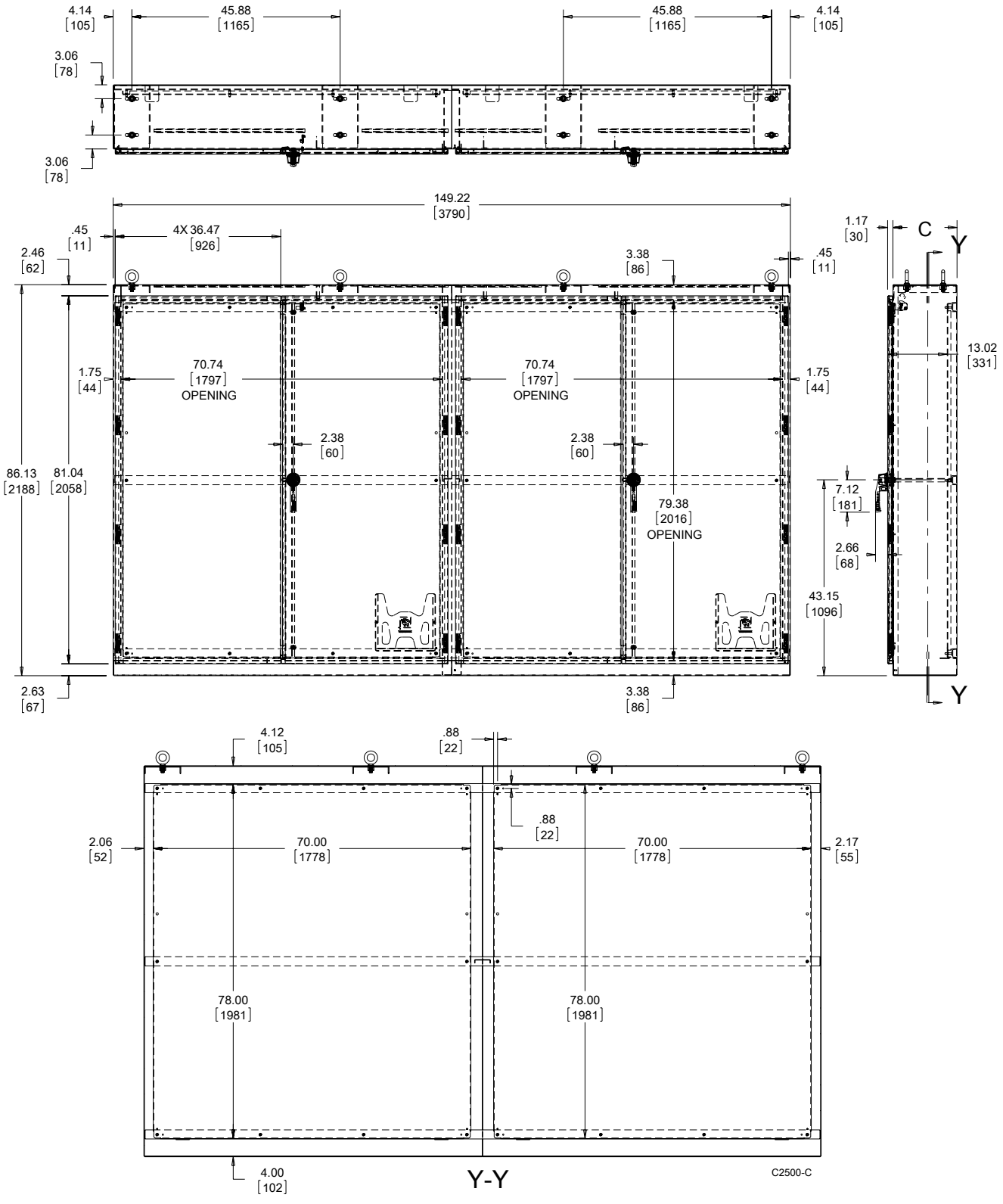
Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	Number of Doors	Number of Large Panels	Size of Large Panels (in.)	Size of Large Panels (mm)	Number of Small Panels	Size of Small Panels (in.)	Size of Small Panels (mm)	Number of Lifting Eyes
A86M3EG	86.12 x 112.00 x 14.12	2187 x 2845 x 359	Gray	3	1	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	4
A86M3E	86.12 x 112.00 x 14.12	2187 x 2845 x 359	White	3	1	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	4
A86M3ELPG	86.12 x 112.00 x 14.12	2187 x 2845 x 359	Gray	3	—	—	—	—	—	—	4
A86M3ELP	86.12 x 112.00 x 14.12	2187 x 2845 x 359	White	3	—	—	—	—	—	—	4
A86M4EG	86.12 x 149.19 x 14.12	2187 x 3789 x 359	Gray	4	2	78.00 x 70.00	1981 x 1778	—	—	—	8
A86M4E	86.12 x 149.19 x 14.12	2187 x 3789 x 359	White	4	2	78.00 x 70.00	1981 x 1778	—	—	—	8
A86M4ELPG	86.12 x 149.19 x 14.12	2187 x 3789 x 359	Gray	4	—	—	—	—	—	—	8
A86M4ELP	86.12 x 149.19 x 14.12	2187 x 3789 x 359	White	4	—	—	—	—	—	—	8
A86M5EG	86.12 x 187.00 x 14.12	2187 x 4750 x 359	Gray	5	2	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	8
A86M5E	86.12 x 187.00 x 14.12	2187 x 4750 x 359	White	5	2	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	8
A86M5ELPG	86.12 x 187.00 x 14.12	2187 x 4750 x 359	Gray	5	—	—	—	—	—	—	8
A86M5ELP	86.12 x 187.00 x 14.12	2187 x 4750 x 359	White	5	—	—	—	—	—	—	8
A86M3E20G	86.12 x 112.00 x 20.12	2187 x 2845 x 511	Gray	3	1	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	4
A86M3E20	86.12 x 112.00 x 20.12	2187 x 2845 x 511	White	3	1	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	4
A86M3E20LPG	86.12 x 112.00 x 20.12	2187 x 2845 x 511	Gray	3	—	—	—	—	—	—	4
A86M3E20LP	86.12 x 112.00 x 20.12	2187 x 2845 x 511	White	3	—	—	—	—	—	—	4
A86M4E20G	86.12 x 149.19 x 20.12	2187 x 3789 x 511	Gray	4	2	78.00 x 70.00	1981 x 1778	—	—	—	8
A86M4E20	86.12 x 149.19 x 20.12	2187 x 3789 x 511	White	4	2	78.00 x 70.00	1981 x 1778	—	—	—	8
A86M4E20LPG	86.12 x 149.19 x 20.12	2187 x 3789 x 511	Gray	4	—	—	—	—	—	—	8
A86M4E20LP	86.12 x 149.19 x 20.12	2187 x 3789 x 511	White	4	—	—	—	—	—	—	8
A86M5E20G	86.12 x 187.00 x 20.12	2187 x 4750 x 511	Gray	5	2	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	8
A86M5E20	86.12 x 187.00 x 20.12	2187 x 4750 x 511	White	5	2	78.00 x 70.00	1981 x 1778	1	78.00 x 34.00	1981 x 864	8
A86M5E20LPG	86.12 x 187.00 x 20.12	2187 x 4750 x 511	Gray	5	—	—	—	—	—	—	8
A86M5E20LP	86.12 x 187.00 x 20.12	2187 x 4750 x 511	White	5	—	—	—	—	—	—	8

Panels are furnished with enclosure. Removable panel not included with models ending in LP.

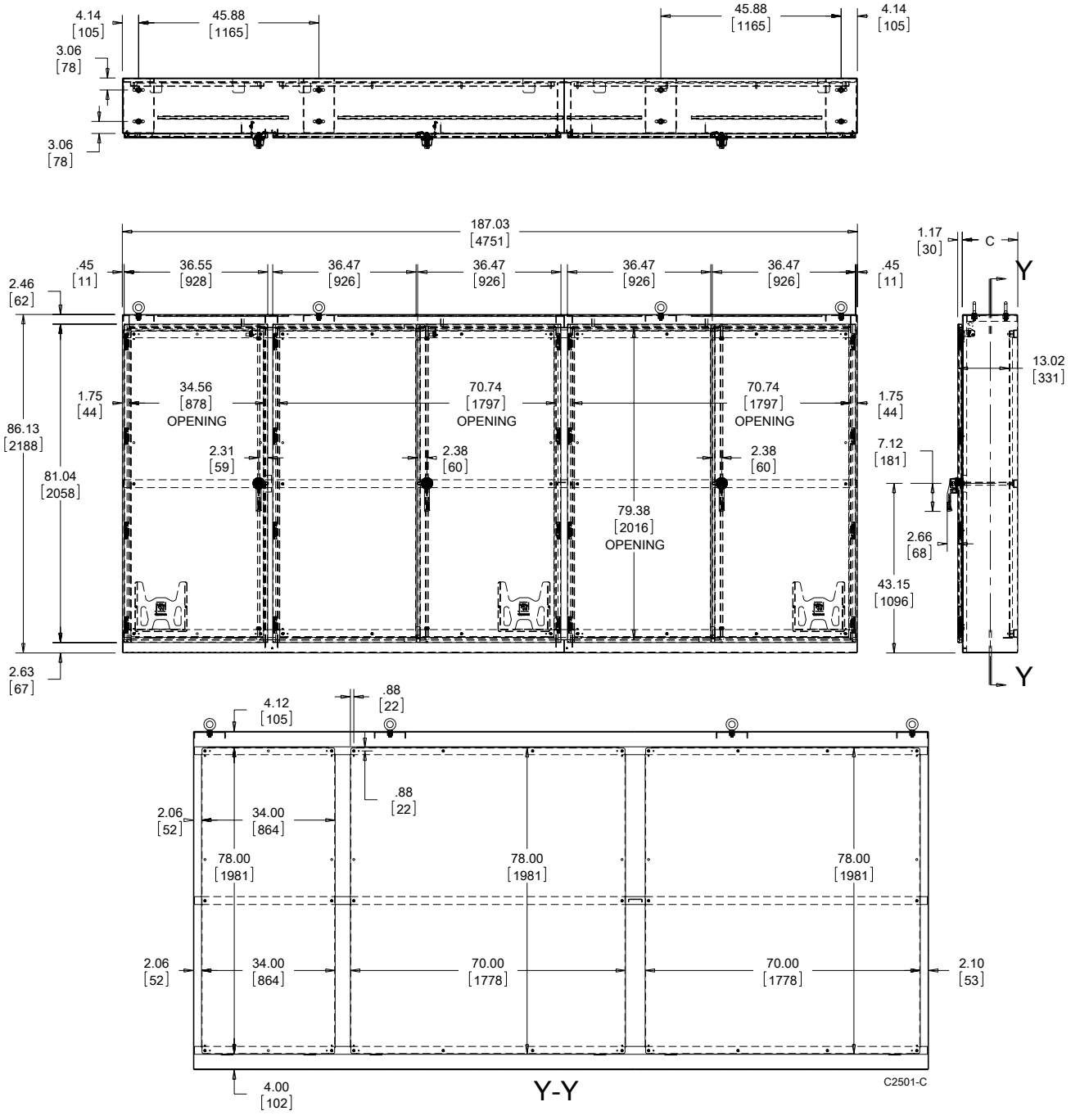
Three-Door Enclosure



Four-Door Enclosure



Five-Door Enclosure



FREE-STAND WITH CONTINUOUS HINGE AND CLAMPS, TYPE 4

APPLICATION

These enclosures are ideal for mounting equipment on panels or racks in indoor or outdoor applications where it is necessary to protect controls and instrumentation from wet, non-corrosive environments.

SPECIFICATIONS

- 12 gauge steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Internal mounting channels welded horizontally at top, bottom and center
- Panels and rack-mounting angles can be mounted anywhere along channels
- Return flange around three sides of door and along enclosure opening excludes liquids and contaminants
- Stainless steel door clamps assure water-tight seal
- Hasp and staple provided for padlocking
- Data pocket is high-impact thermoplastic
- Lifting eyes for easy handling
- Oil-resistant door gasket
- Bonding provision on door
- Provision for mounting fluorescent light

FINISH

ANSI 61 gray polyester powder paint inside and out over pretreated surfaces. Optional panels have white or conductive finish.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4L

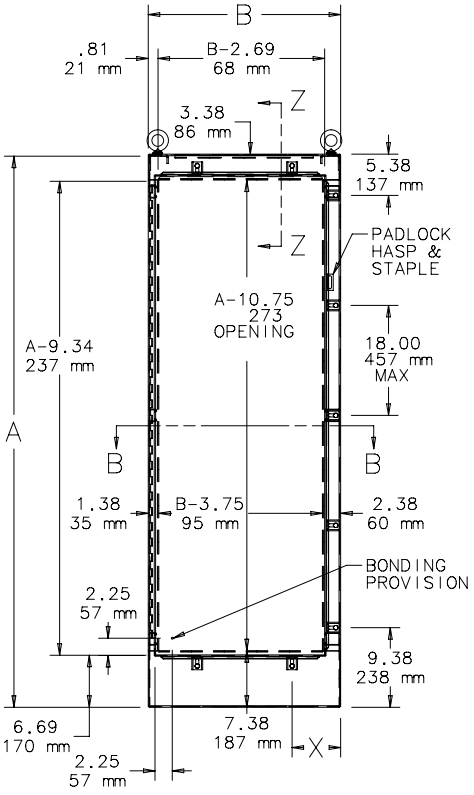
INDUSTRY STANDARDS

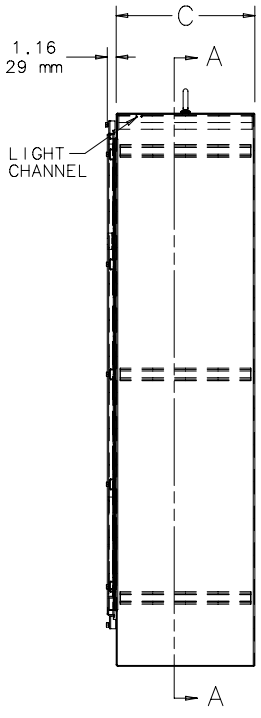
UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

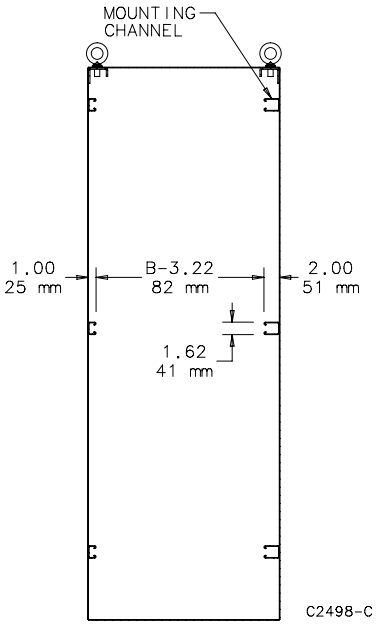
NEMA Type 3, 4, 12, 13
CSA, File No. 42186, Type 4, 12
E.I.A. RS310D
IEC 60529, IP66

Standard Product

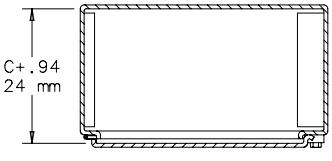
Catalog Number	AxBxC in./mm	X in./mm	Number of Rack Units
A72H2518FS	72.06 x 25.06 x 18.06 1830 x 637 x 459	6.38 162	35
A72H3124FS	72.06 x 31.06 x 24.06 1830 x 789 x 611	8.38 213	35
A72H3724FS	72.06 x 37.06 x 24.06 1830 x 941 x 611	10.38 264	35







SECTION A–A



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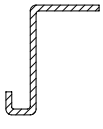


SECTION Z–Z

nVent | HOFFMAN

FREE-STAND WITH 3-POINT LATCH, TYPE 4

APPLICATION

These enclosures are ideal for mounting equipment on panels or racks in indoor or outdoor applications where it is necessary to protect controls and instrumentation from wet, non-corrosive environments. The design features Hoffman's exclusive POWERGLIDE Handle with 3-point latching for secure closure.

FEATURES

- 3-point latch for security and ease of use
- Mounting channels accommodate panel or rack-mount equipment
- Panels and rack mount angles can be mounted anywhere along channels
- Rolled flange around door opening excludes liquids and contaminants
- Lifting eyes for easy handling

SPECIFICATIONS

- 12 gauge steel
- 3-point latch system with POWERGLIDE handle
- Seams continuously welded and ground smooth; no holes or knockouts
- Mounting channels welded horizontally to interior body sides at top, bottom and center
- Heavy-gauge continuous hinge with stainless steel hinge pin
- Data pocket is high-impact thermoplastic
- Lifting eyes
- Oil-resistant door gasket
- Bonding provision on door
- Provision for mounting fluorescent light

FINISH

ANSI 61 gray polyester powder paint inside and out over pretreated surfaces. Optional panels have either a white or a conductive finish.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4L3

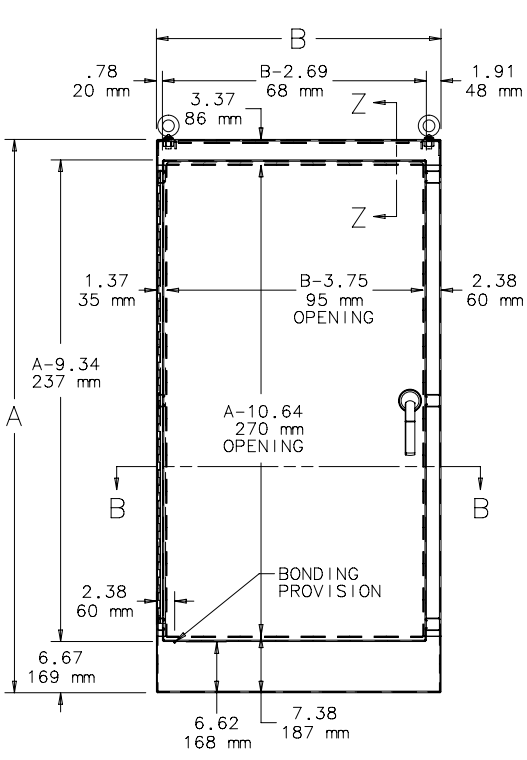
INDUSTRY STANDARDS

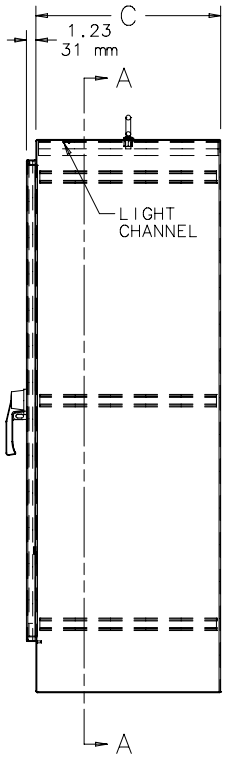
UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

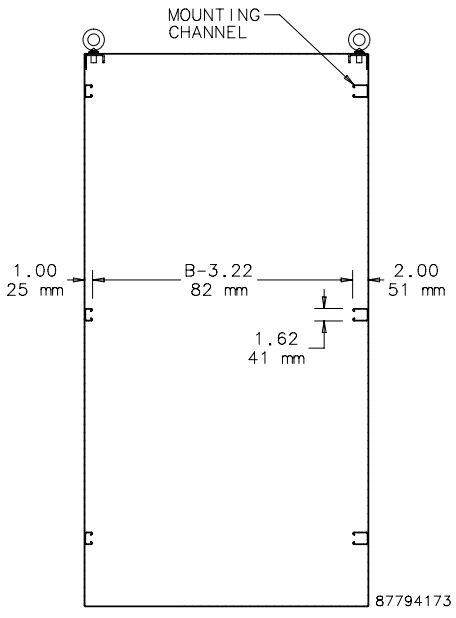
NEMA Type 3, 4, 12, 13
E.I.A. RS310D
IEC 60529, IP66

Standard Product

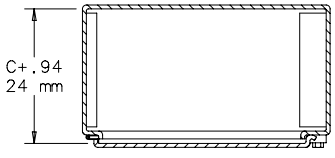
Catalog Number	AxBxC in./mm	Rack Units
A72H2518FS3PT	72.06 x 25.06 x 18.06 1830 x 637 x 459	35
A72H3124FS3PT	72.06 x 31.06 x 24.06 1830 x 789 x 611	35
A72H3724FS3PT	72.06 x 37.06 x 24.06 1830 x 941 x 611	35



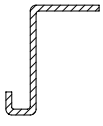




SECTION A-A



SECTION B-B



SECTION Z-Z

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FREE-STAND TYPE 4 ENCLOSURE ACCESSORY SELECTION GUIDE

(See Accessories for Details)

Panels

Steel	Conductive	Description	Panel Size	Single-Door Single-Access Enclosures			Single-Door Dual Access Enclosures		
				A72H2518FS	A72H3124FS	A72G3724FS	A72H2518FS3PT	A72H3124FS3PT	A72H3724FS3PT
A60P24F1	A60P24F1G	Full Panel	48.00 x 20.00 (1219 x 508)	•[a]			•[a]		
A60P24F2	A60P24F2G	Half Panel	24.88 x 20.00 (632 x 508)	•[a]			•[a]		
A72P24F1	A72P24F1G	Full Panel	60.00 x 20.00 (1524 x 508)	•			•		
A72P24F2	A72P24F2G	Half Panel	30.88 x 20.00 (784 x 508)	•			•		
A90P24F2	A90P24F2G	Half Panel	39.00 x 20.00 (1013 x 508)	•[a]			•[a]		
A72P30F1	A72P30F1G	Full Panel	60.00 x 26.00 (1524 x 660)		•			•	
A72P30F2	A72P30F2G	Half Panel	30.88 x 26.00 (784 x 660)		•			•	
A60P36F1	A60P36F1G	Full Panel	48.00 x 32.00 (1219 x 813)			•[a]			•[a]
A60P36F2	A60P36F2G	Half Panel	24.88 x 32.00 (632 x 813)			•[a]			•[a]
A72P36F1	A72P36F1G	Full Panel	60.00 x 32.00 (1524 x 813)			•			•
A72P36F2	A72P36F2G	Half Panel	30.88 x 32.00 (784 x 813)			•			•
A90P36F2	A90P36F2G	Half Panel	39.88 x 32.00 (1013 x 813)			•[a]			•[a]

Swing-Out Panels

Catalog No.	Description	Panel Size						
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)	•			•		
A72SP24F4	Half Panel	30.88 x 18.81 (784 x 478)	•			•		
A72SP30F3	Full Panel	60.00 x 24.81 (1524 x 630)		•			•	
A72SP30F4	Half Panel	30.88 x 24.81 (784 x 630)		•			•	
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)			•			•
A72SP36F4	Half Panel	30.88 x 30.81 (784 x 783)			•			•

Side-Mount Panels

Catalog No.	Description	Panel Size						
A72SMP14	Side-Mount Panel	60.00x14.00 (1524x356)	•	•	•	•	•	•
A72SMP20	Side-Mount Panel	60.00x20.00 (1524x508)		•	•		•	•

Heavy-Duty Panel Supports

Catalog No.	Description	Length						
A72FSHDPS	Two Full-Length Panel Supports	60.25 (1759)	•	•	•	•	•	•

Clamp Nuts

Catalog No.	Description	For						
APS1420CN	1/4-20 Clamp Nut (Qty. 20)	Special Use	•	•	•	•	•	•
APS51618CN	5/16-18 Clamp Nut (Qty. 20)	Special Use	•	•	•	•	•	•

Clip Nut Packages*

Catalog No.	Description	Size	Fits						
AN1032	Plated (Qty. 20)	#10-32	"RA" Type Rack Mount Angles	•			•		
ANM5	Plated (Qty. 20)	Metric M5	"RA" Type Rack Mount Angles		•			•	

Casters

Catalog No.	Description	Size						
DMCKC	Set of 4 Casters	4 high x 3 diameter	•	•	•	•	•	•

Rack-Mount Angles L-Style (Type RP) for 19- and 24-in. Equipment

Catalog No.	Description	For Rack Size	Angle Length	Number of Rack Units						
A60RP24F5	Two Full-Length Angles	19.00 (483)	49.00 (1245)	28	•			•		
A72RP24F5	Two Full-Length Angles	19.00 (483)	61.25 (1556)	35	•			•		
A72RP24F6	Two Full-Length Angles	19.00 (483)	31.50 (800)	18	•			•		
A72RP30F5	Two Full-Length Angles	24.00 (610)	61.25 (1556)	35		•			•	
A72RP30F6	Two Full-Length Angles	24.00 (610)	31.50 (800)	18		•			•	
A90RP24F5	Two Full-Length Angles	24.00 (610)	40.25 (1022)	23	•			•		

Rack-Mount Angles U-Style (Type RA) for 19- and 24-in. Equipment

Catalog No.	Description	For Rack Size	Angle Length	Number of Rack Units						
A60RA19TH	Two Full-Length Angles	19.00 (483)	49.00 (1245)	28	•			•		
A72RA19TH	Two Full-Length Angles	19.00 (483)	61.25 (1556)	35	•			•		
A72RA24TH	Two Full-Length Angles	24.00 (610)	61.25 (1556)	35		•			•	

Millimeter dimensions are in parentheses ( )
One rack unit = 1.75 in. (45 mm)
[a] Requires heavy-duty panel supports
[b] Requires swing-out rack mounting frame
* Requires rack angles

(See Accessories for Details)

19-in. Rack Panels

Catalog Number	Description	Rack Panel Size	Rack Units	Single-Door Single-Access Enclosures			Single-Door Dual Access Enclosures		
				A72H2518FS	A72H3124FS	A72G3724FS	A72H2518FS3PT	A72H3124FS3PT	A72H3724FS3PT
P19RP1UA	Aluminum Rack Panel	19.00x1.75 (483x44)	1	•	•[b]	•[b]	•	•[b]	•[b]
P19RP2UA	Aluminum Rack Panel	19.00x3.50 (483x89)	2	•	•[b]	•[b]	•	•[b]	•[b]
P19RP3UA	Aluminum Rack Panel	19.00x5.25 (483 x133)	3	•	•[b]	•[b]	•	•[b]	•[b]
P19RP4UA	Aluminum Rack Panel	19.00x7.00 (483x178)	4	•	•[b]	•[b]	•	•[b]	•[b]
P19RP5UA	Aluminum Rack Panel	19.00x8.75 (483x222)	5	•	•[b]	•[b]	•	•[b]	•[b]
P19RP6UA	Aluminum Rack Panel	19.00x10.50 (483x267)	6	•	•[b]	•[b]	•	•[b]	•[b]
P19RP7UA	Aluminum Rack Panel	19.00x12.25 (483x311)	7	•	•[b]	•[b]	•	•[b]	•[b]
P19RP8UA	Aluminum Rack Panel	19.00x14.00 (483x356)	8	•	•[b]	•[b]	•	•[b]	•[b]
P19RP9UA	Aluminum Rack Panel	19.00x15.75 (483x400)	9	•	•[b]	•[b]	•	•[b]	•[b]
P19RP10UA	Aluminum Rack Panel	19.00x17.50 (483x445)	10	•	•[b]	•[b]	•	•[b]	•[b]
P19RP11UA	Aluminum Rack Panel	19.00x19.25 (483x489)	11	•	•[b]	•[b]	•	•[b]	•[b]
P19RP12UA	Aluminum Rack Panel	19.00x21.00 (483x533)	12	•	•[b]	•[b]	•	•[b]	•[b]
P24RP2UA	Aluminum Rack Panel	24.00x3.50 (610x89)	2		•			•	
P24RP3UA	Aluminum Rack Panel	24.00x5.25 (610x133)	3		•			•	
P24RP4UA	Aluminum Rack Panel	24.00x7.00 (610x178)	4		•			•	
P24RP8UA	Aluminum Rack Panel	24.00x14.00 (610x356)	8		•			•	

Screw Packages*

Catalog No.	Description	Size	Fits						
AS1032	Nickle-plated (Qty. 20)	#10-32 x .75 Truss Head	RA and RP Type Rack-Mount Angles	•	•		•	•	
ASM5	Nickle-plated (Qty. 20)	Pan head combination screw, M5	"RA" only	•	•		•	•	

19-in. Swing-Out Rack-Mount Frame

Catalog No.	Description	For Rack Size	Angle Length	Rack Units						
A7230SOF19	Full Swing-Out Frame	19.00 (483)	57.99 (1470)	33		•			•	
A7236SOF19	Full Swing-Out Frame	19.00 (483)	57.99 (1470)	33			•			•

Rack-Angle Mounted Drawers*

Catalog No.	Description	For Rack Size	Rack Units						
P19DR1US	Drawer	19.00 (483)	1	•			•		
P19DR2US	Drawer	19.00 (483)	2	•			•		
P19DR3US	Drawer	19.00 (483)	3	•			•		

Writing Surface*

Catalog No.	Description	Fits Drawer						
P12WS	Hinged Surface	P12DR1US, P12DR2US, P19DR3US	•			•		

Rack-Mount Shelves*

Catalog No.	Description	Shelf Dimensions	Angle Length	Rack Units						
P19SHP68	Sliding Shelf	16.72X16.20 (425x412)	19.00 (483)	2	•	•		•	•	
P19SHP810	Sliding Shelf	24.59x16.20 (625x412)	19.00 (483)	2	•	•		•	•	

Guides for Rack-Mount Equipment*

Catalog No.	Description	Rack Units						
AG1U6	Chassis Guides (2)	1	•	•		•	•	

Millimeter dimensions are in parentheses ( )
One rack unit = 1.75 in. (45 mm)
[a] Requires heavy-duty panel supports
[b] Requires swing-out rack mounting frame
* Requires rack angles

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TWO-DOOR WITH FLOOR STANDS AND 3-POINT LATCH, TYPE 12

SPECIFICATIONS

- Seams continuously welded and ground smooth; no holes or knockouts
- Gasketed overlapping doors with no centerpost
- 3-point latch mechanism operated by oil-tight key-lock handle
- Concealed, easy-to-remove hinges
- Data pocket is high-impact thermoplastic
- 12-in. floor stands welded to enclosure
- Heavy-duty lifting eyes
- Panel supports
- Oil-resistant gasket
- Collar studs for mounting optional panel
- Bonding provision on door
- Provision for mounting fluorescent light

FINISH

Two finishes available: ANSI 61 gray, polyester powder paint outside and inside; or ANSI 61 gray outside and white, polyester powder paint inside. Optional panels available with a white or conductive finish.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA, File No. 42186, Type 12
IEC 60529, IP55

APPLICATION

Enclosures have gasketed, overlapping doors to give protection in industrial environments and floor stands that provide additional height and access for cleaning under the enclosure. Because there is no centerpost, it is simple to install and remove panels.

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

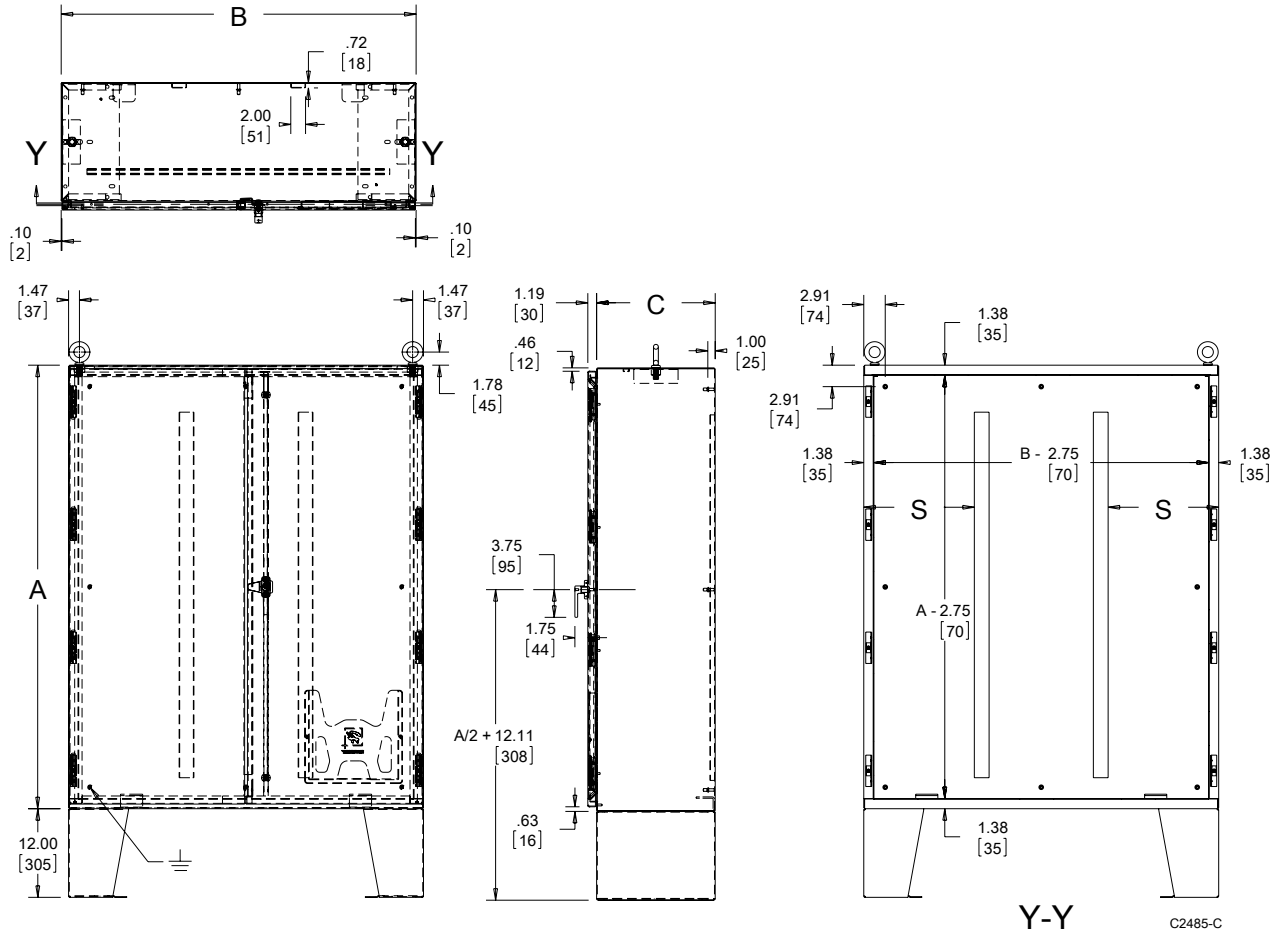
BULLETIN: A12L

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	Gauge	Panel	Conductive Panel	Panel Gauge	Panel Size (in.)	Panel Size (mm)	Stiffener (in.)	Stiffener (mm)	S (in.)	S (mm)
A544208LPG	54.00 x 42.00 x 8.00	1372 x 1067 x 203	Gray	12	A54P42	A54P42G	11	50.00 x 38.00	1270 x 965	15.00	381	—	—
A544208LP	54.00 x 42.00 x 8.00	1372 x 1067 x 203	White	12	A54P42	A54P42G	11	50.00 x 38.00	1270 x 965	15.00	381	—	—
A604808LPG	60.06 x 48.06 x 8.06	1526 x 1221 x 205	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604808LP	60.06 x 48.06 x 8.06	1526 x 1221 x 205	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604810LPG	60.06 x 48.06 x 10.06	1526 x 1221 x 256	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604810LP	60.06 x 48.06 x 10.06	1526 x 1221 x 256	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A606010LPG	60.06 x 60.06 x 10.06	1526 x 1526 x 256	Gray	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A606010LP	60.06 x 60.06 x 10.06	1526 x 1526 x 256	White	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A726010ULPG	72.06 x 60.06 x 10.06	1830 x 1526 x 256	Gray	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A726010ULP	72.06 x 60.06 x 10.06	1830 x 1526 x 256	White	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A727210ULPG	72.06 x 72.06 x 10.06	1830 x 1830 x 256	Gray	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A727210ULP	72.06 x 72.06 x 10.06	1830 x 1830 x 256	White	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A604812LPG	60.06 x 48.06 x 12.06	1526 x 1221 x 306	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604812LP	60.06 x 48.06 x 12.06	1526 x 1221 x 306	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A606012LPG	60.06 x 60.06 x 12.06	1526 x 1526 x 306	Gray	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A606012LP	60.06 x 60.06 x 12.06	1526 x 1526 x 306	White	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A726012ULPG	72.06 x 60.06 x 12.06	1830 x 1526 x 306	Gray	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A726012ULP	72.06 x 60.06 x 12.06	1830 x 1526 x 306	White	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A727212ULPG	72.06 x 72.06 x 12.06	1830 x 1830 x 306	Gray	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A727212ULP	72.06 x 72.06 x 12.06	1830 x 1830 x 306	White	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A604816LPG	60.06 x 48.06 x 16.06	1526 x 1221 x 408	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604816LP	60.06 x 48.06 x 16.06	1526 x 1221 x 408	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A606016LPG	60.06 x 60.06 x 16.06	1526 x 1526 x 408	Gray	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A606016LP	60.06 x 60.06 x 16.06	1526 x 1526 x 408	White	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A726016ULPG	72.06 x 60.06 x 16.06	1830 x 1526 x 408	Gray	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A726016ULP	72.06 x 60.06 x 16.06	1830 x 1526 x 408	White	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	Gauge	Panel	Conductive Panel	Panel Gauge	Panel Size (in.)	Panel Size (mm)	Stiffener (in.)	Stiffener (mm)	S (in.)	S (mm)
A727216ULPG	72.06 x 72.06 x 16.06	1830 x 1830 x 408	Gray	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A727216ULP	72.06 x 72.06 x 16.06	1830 x 1830 x 408	White	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A604820LPG	60.06 x 48.06 x 20.06	1526 x 1221 x 510	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604820LP	60.06 x 48.06 x 20.06	1526 x 1221 x 510	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A726020ULPG	72.06 x 60.06 x 20.06	1830 x 1526 x 510	Gray	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A726020ULP	72.06 x 60.06 x 20.06	1830 x 1526 x 510	White	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A727220ULPG	72.06 x 72.06 x 20.06	1830 x 1830 x 510	Gray	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A727220ULP	72.06 x 72.06 x 20.06	1830 x 1830 x 510	White	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A604824LPG	60.06 x 48.06 x 24.06	1526 x 1221 x 611	Gray	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A604824LP	60.06 x 48.06 x 24.06	1526 x 1221 x 611	White	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	15.00	381	15.92	404
A606024LPG	60.06 x 60.06 x 24.06	1526 x 1526 x 611	Gray	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A606024LP	60.06 x 60.06 x 24.06	1526 x 1526 x 611	White	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	21.00	533	19.92	506
A726024ULPG	72.06 x 60.06 x 24.06	1830 x 1526 x 611	Gray	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A726024ULP	72.06 x 60.06 x 24.06	1830 x 1526 x 611	White	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	21.00	533	19.92	506
A727224ULPG	72.06 x 72.06 x 24.06	1830 x 1830 x 611	Gray	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608
A727224ULP	72.06 x 72.06 x 24.06	1830 x 1830 x 611	White	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	24.00	610	23.92	608

Purchase panels separately.



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TWO-DOOR WITH FLOOR STANDS AND 3-POINT LATCH, TYPE 4

FEATURES

- Three-point latch for security and ease of use
- Return flange around the door opening excludes liquids and contaminants
- Removable centerpost permits easy panel installation

SPECIFICATIONS

- 12 gauge steel
- 3-point latch system with POWERGLIDE padlocking handles
- Seams continuously welded and ground smooth; no holes or knockouts
- Body stiffeners
- Panel supports
- Heavy gauge continuous hinge with stainless steel hinge pin
- Data pocket is high-impact thermoplastic
- 12-in. floor stands are welded to enclosure
- Heavy-duty lifting eyes
- Oil-resistant door gasket
- Collar stud for mounting optional panels
- Grounding stud on body
- Bonding provision on door
- Provision for mounting flourescent light

FINISH

ANSI 61 gray polyester paint inside and out over pretreated surfaces. Optional panels have white or conductive finish.

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC, Type 3, 4, 12, 13
IEC 60529, IP66

APPLICATION

These enclosures are ideal for indoor or outdoor applications where it is necessary to protect controls and instrumentation from wet, non-corrosive environments. The design features Hoffman's exclusive POWERGLIDE Handle with 3-point latching for secure closure and floor stands that provide additional height and access for cleaning under the enclosure.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
SPECTRACOOL Indoor/Outdoor, page 950
Enclosure Stabilizers, page 1403
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

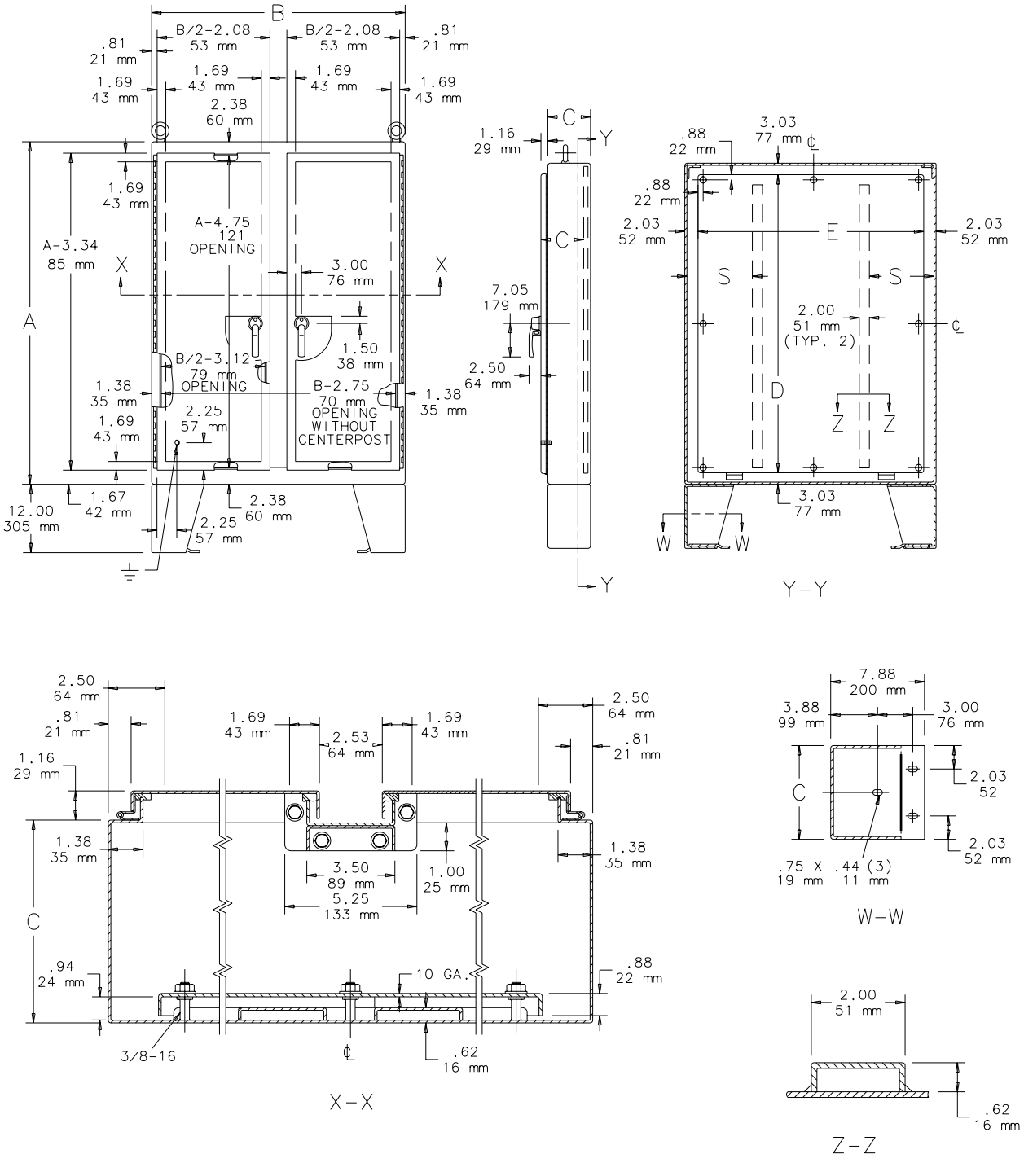
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4L3

Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Body Stiffener S in./mm	Panel Size D x E in./mm
A62H4810LP3PT	62.06 x 48.06 x 10.06 1576 x 1221 x 256	A60P48	A60P48G	15.00 381	56.00 x 44.00 1422 x 1118
A62H4818LP3PT	62.06 x 48.06 x 18.06 1576 x 1221 x 459	A60P48	A60P48G	15.00 381	56.00 x 44.00 1422 x 1118
A62H6012LP3PT	62.06 x 60.06 x 12.06 1576 x 1526 x 306	A60P60	A60P60G	21.00 533	56.00 x 56.00 1422 x 1422
A62H6018LP3PT	62.06 x 60.06 x 18.06 1576 x 1526 x 459	A60P60	A60P60G	21.00 533	56.00 x 56.00 1422 x 1422
A74H6012LP3PT	74.06 x 60.06 x 12.06 1881 x 1526 x 306	A72P60	A72P60G	21.00 533	68.00 x 56.00 1727 x 1422
A74H6018LP3PT	74.06 x 60.06 x 18.06 1881 x 1526 x 459	A72P60	A72P60G	21.00 533	68.00 x 56.00 1727 x 1422
A74H7212LP3PT	74.06 x 72.06 x 12.06 1881 x 1830 x 306	A72P72	A72P72G	24.00 610	68.00 x 68.00 1727 x 1727
A74H7218LP3PT	74.06 x 72.06 x 18.06 1881 x 1830 x 459	A72P72	A72P72G	24.00 610	68.00 x 68.00 1727 x 1727
A74H7224LP3PT	74.06 x 72.06 x 24.06 1881 x 1830 x 611	A72P72	A72P72G	24.00 610	68.00 x 68.00 1727 x 1727

Order panel separately.


B
B/2-2.08
53 mm
.81
21 mm
1.69
43 mm
2.38
60 mm
A-4.75
121
OPENING
A-3.34
85 mm
A
X
3.00
76 mm
B/2-3.12
79 mm
OPENING
B-2.75
70 mm
OPENING
WITHOUT
CENTERPOST
1.38
35 mm
2.25
57 mm
1.50
38 mm
1.67
42 mm
12.00
305 mm
C
Y
1.16
29 mm
7.05
179 mm
2.50
64 mm
3.03
77 mm
.88
22 mm
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52 mm
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S
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2.00
51 mm
(TYP. 2)
W
Y-Y
2.53
64 mm
.81
21 mm
3.50
89 mm
5.25
133 mm
1.00
25 mm
.94
24 mm
10 GA.
3/8-16
.62
16 mm
X-X
7.88
200 mm
3.88
99 mm
3.00
76 mm
.75 X .44 (3)
19 mm 11 mm
W-W
Z-Z
87794322

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TWO-DOOR WITH FLOOR STANDS AND CLAMPS, TYPE 4

APPLICATION

The Type 4 rating and polyester powder coating make these enclosures ideal for outdoor environments or food processing applications where it is necessary to protect controls and instrumentation from wet, non-corrosive environments. Featuring a continuous hinge with clamps, the enclosures are supported by floor stands that provide additional height and access for cleaning under the enclosure. Equipment can be mounted on either panels or racks.

SPECIFICATIONS

- 12 gauge steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Body stiffeners for added strength
- Removable centerpost permits easy panel installation
- Panel supports
- Return flange around three sides of door and along top of enclosure opening channels away liquids and contaminants
- Stainless steel door clamps on three sides of each door assure water-tight seal
- Heavy gauge continuous hinge with stainless steel hinge pin
- Hasp and staple for padlock
- Data pocket is high-impact thermoplastic
- 12-in. floor stands welded to enclosure
- Heavy-duty lifting eyes
- Oil-resistant door gasket
- Collar studs provided for mounting optional panels
- Grounding stud on body
- Bonding provision on door
- Provision for mounting fluorescent light

FINISH

ANSI 61 gray polyester powder paint inside and out over pretreated surfaces. Optional panels have white or conductive finish.

ACCESSORIES

Panels, page 1446
PANELITE Enclosure Lights, page 1393
SPECTRACOOL Indoor/Outdoor, page 950
Enclosure Stabilizers, page 1403
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electric Heaters, page 1236
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4L

INDUSTRY STANDARDS

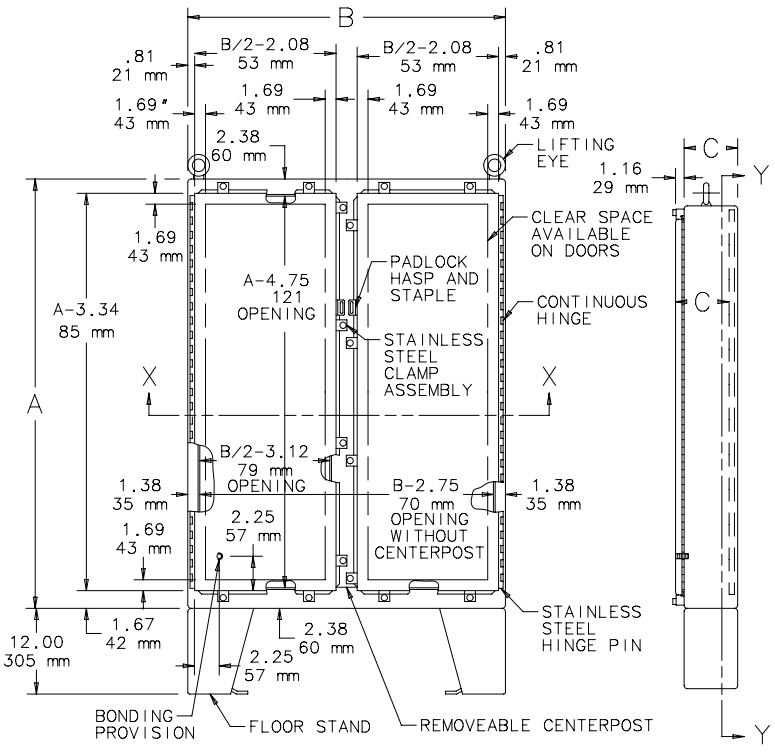
UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

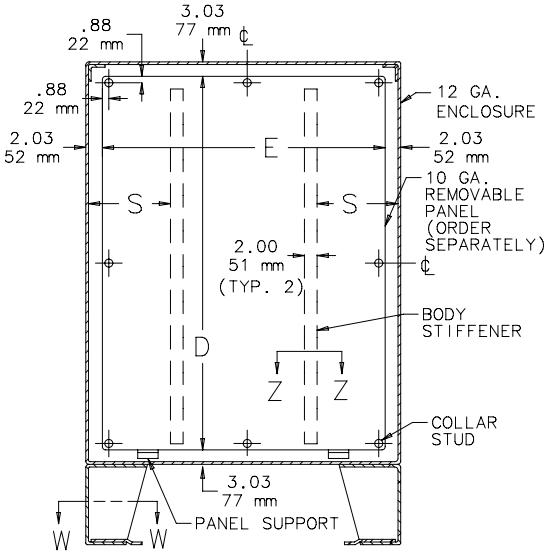
NEMA/EEMAC Type 3, Type 4, 12, 13
CSA, File No. LR42186, Type 4, 12
IEC 60529, IP66

Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	Body Stiffener S in./mm	Number of Clamps
A62H48CLP	62.06 x 48.06 x 10.06 1576 x 1221 x 256	A60P48	A60P48G	15.00 381	15 381	16
A62H60DLP	62.06 x 60.06 x 12.06 1576 x 1526 x 306	A60P60	A60P60G	21.00 533	21 533	16
A74H60DULP	74.06 x 60.06 x 12.06 1881 x 1526 x 306	A72P60	A72P60G	21.00 533	21 533	18
A74H72DULP	74.06 x 72.06 x 12.06 1881 x 1830 x 306	A72P72	A72P72G	24.00 610	24 610	18
A74H72JULP	74.06 x 72.06 x 24.06 1881 x 1830 x 611	A72P72	A72P72G	24.00 610	24 610	18

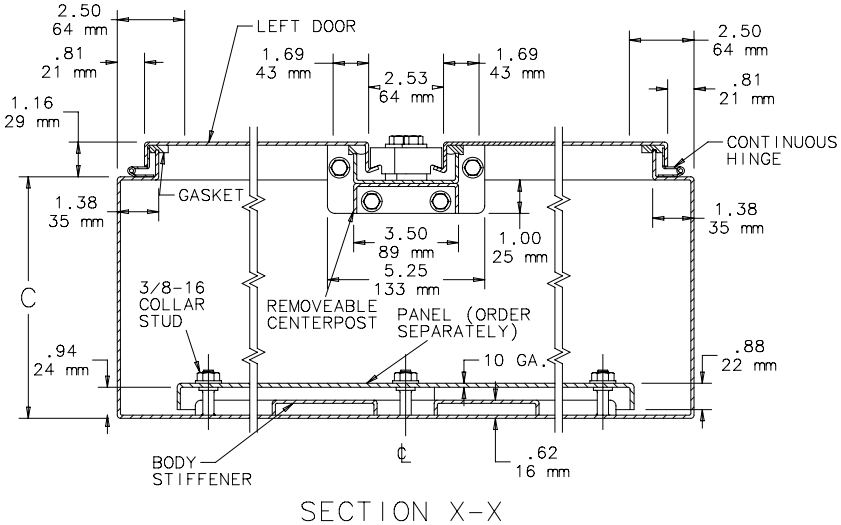
Purchase panels separately





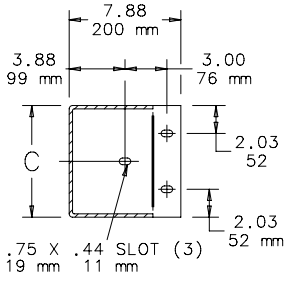
SECTION Y-Y

NOTE: Right door has removable 12.00 x 12.00 (305mm x 305mm) data pocket.

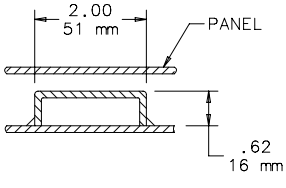


SECTION X-X

(LIFTING ANGLES NOT SHOWN)



SECTION W-W



SECTION Z-Z

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CHAPTER 2
STAINLESS STEEL

WATERSHED FREE-STAND, TYPE 4X

WATERSHED stainless steel free-stand enclosure, with its unique design and Type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in a variety of indoor and outdoor settings. Its unique features are specifically designed for use in sanitary washdown production environments like food, beverage, or pharmaceutical processing. However, these same features also are useful in petrochemical plants, pulp and paper facilities and waste-water treatment plants.

TWO-DOOR WITH 3-POINT LATCHES AND FLOOR-STANDS, TYPE 12

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil and water.

INLINE LANDSCAPE, TYPE 4X

When applications require mounting electrical components the full width of the enclosure, the landscape orientation of this aesthetic INLINE enclosure makes this possible.

PHARMAPRO

PHARMAPRO enclosures are specifically designed for the pharmaceutical industry with flush mounting and a low RA value finish that minimizes surface crevices for thorough wipe-downs and eliminates areas where contaminants can accumulate. The mounting system pulls the enclosure flush and tight to the wall and can be used on block or stud walls.

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FLUSH-MOUNT ENCLOSURES

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PUSHBUTTON ENCLOSURES

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FLOOR-MOUNT AND FREE-STAND ENCLOSURES

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CONTINUOUS-HINGE WITH CLAMPS, TYPE 4X

APPLICATION

Used in either indoor or outdoor applications, these enclosures combine a rugged continuous hinge, seamless foam-in-place gasket and stainless steel screw-down clamps for a reliable seal that protects components from corrosive environments.

SPECIFICATIONS

- 16 and 14 gauge Type 304 or 316L stainless steel
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket
- Stainless steel screws and clamps
- Pull stainless steel continuous hinge pin to remove door
- Weldnuts provided for mounting optional panels and terminal block kits
- Bonding provision on door and body

FINISH

Cover and sides of body have smooth #4 brushed finish.

ACCESSORIES

Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Lock Kit for Clamp Cover Junction Boxes, page 1366
Panels for Junction Boxes, page 1330
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51S

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R, 4, 4X, 12; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E27567
UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

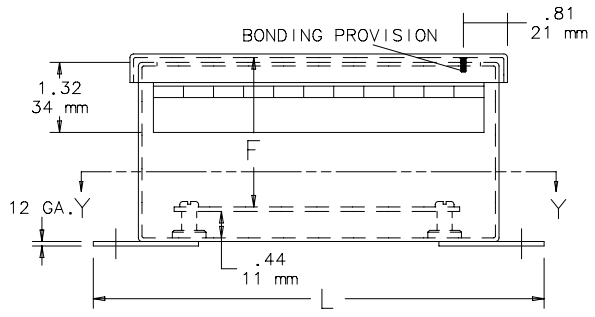
NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42184: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

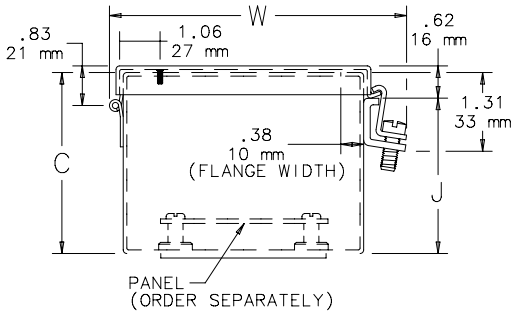
Standard Product

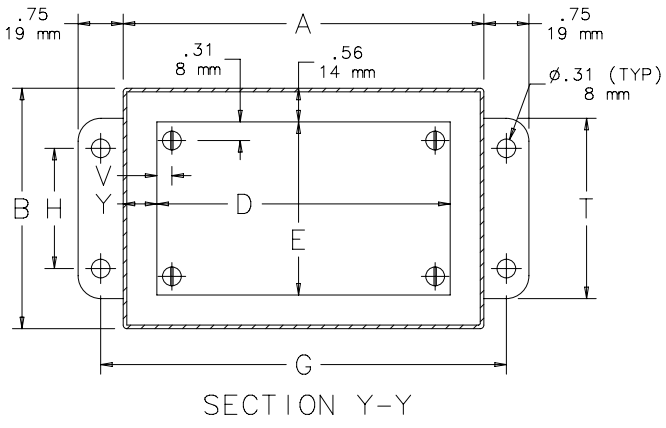
Catalog Number	AxBxC in./mm	Stainless Steel Type	UL Listed	Body Gauge	Cover Gauge	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A6044CHNFSS	6.00 x 4.00 x 4.00 152 x 102 x 102	304	508A	16	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	3.50 89	3.62 92	2.38 60	3.00 76	0.31 8	0.56 14
A606CHNFSS	6.00 x 6.00 x 4.00 152 x 152 x 102	304	50, 50E	16	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.50 89	3.62 92	2.38 60	5.00 127	0.31 8	0.56 14
A8064CHNFSS	8.00 x 6.00 x 4.00 203 x 152 x 102	304	50, 50E	14	16	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.50 89	3.62 92	1.38 35	5.00 127	0.25 6	0.62 16
A1008CHNFSS	10.00 x 8.00 x 4.00 254 x 203 x 102	304	50, 50E	14	16	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.50 89	3.62 92	1.38 35	7.00 178	0.25 6	0.62 16
A12106CHNFSS	12.00 x 10.00 x 6.00 305 x 254 x 152	304	50, 50E	14	16	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	5.50 140	5.62 143	2.38 60	9.00 229	0.25 6	0.62 16
A1212CHNFSS	12.00 x 12.00 x 6.00 305 x 305 x 152	304	50, 50E	14	16	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.94 343 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1412CHNFSS	14.00 x 12.00 x 6.00 356 x 305 x 152	304	50, 50E	14	16	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1614CHNFSS	16.00 x 14.00 x 6.00 406 x 356 x 152	304	508A	14	16	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.50 140	5.62 143	2.38 60	13.00 330	0.25 6	0.62 16
A6044CHNFSS6	6.00 x 4.00 x 4.00 152 x 102 x 102	316L	50, 50E	16	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	3.50 89	3.62 92	2.38 60	3.00 76	0.31 8	0.56 14
A606CHNFSS6	6.00 x 6.00 x 4.00 152 x 152 x 102	316L	50, 50E	16	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.50 89	3.62 92	2.38 60	5.00 127	0.31 8	0.56 14
A8064CHNFSS6	8.00 x 6.00 x 4.00 203 x 152 x 102	316L	50, 50E	14	16	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.50 89	3.62 92	1.38 35	5.00 127	0.25 6	0.62 16
A1008CHNFSS6	10.00 x 8.00 x 4.00 254 x 203 x 102	316L	50, 50E	14	16	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.50 89	3.62 92	1.38 35	7.00 178	0.25 6	0.62 16
A12106CHNFSS6	12.00 x 10.00 x 6.00 305 x 254 x 152	316L	50, 50E	14	16	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	5.50 140	5.62 143	2.38 60	9.00 229	0.25 6	0.62 16
A1212CHNFSS6	12.00 x 12.00 x 6.00 305 x 305 x 152	316L	50, 50E	14	16	A12P12	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.94 343 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1412CHNFSS6	14.00 x 12.00 x 6.00 356 x 305 x 152	316L	50, 50E	14	16	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1614CHNFSS6	16.00 x 14.00 x 6.00 406 x 356 x 152	316L	50, 50E	14	16	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.50 140	5.62 143	2.38 60	13.00 330	0.25 6	0.62 16

A6044CHNFSS and A6044CHNFSS6 UL 508A Listed. The remaining catalog numbers are UL 50 Listed.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.



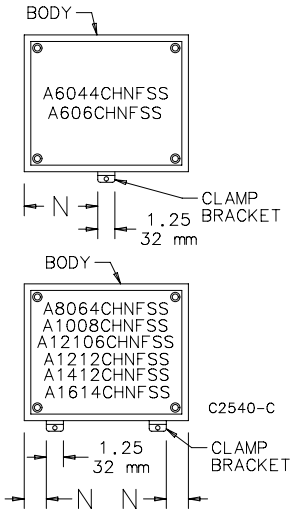




SECTION Y-Y

NOTE:
1. Optional panels are 14 gauge steel, conductive steel or stainless steel
2. Panel screws are #10-32 pan head

CLAMP BRACKET LOCATIONS



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CONTINUOUS HINGE WITH CLAMPS, EMC, TYPE 4X

APPLICATION

Use this enclosure in corrosive indoor or outdoor applications to contain stray electromagnetic interference (EMI) signals produced by internal components and to shield those components from external EMI/RFI interference.

SPECIFICATIONS

- 16 and 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket adjacent to monel mesh assures water-tight, dust-tight and EMI seal
- Stainless steel screws and clamps
- Removable door with continuous hinge
- Weldnuts provided for mounting optional panels and terminal kits
- Bonding provision on door

FINISH

Cover and sides of body have a smooth #4 brushed finish.

ACCESSORIES

Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Panels for Junction Boxes, page 1330
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A51SE

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 4, 4X, 12; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File No. E27567
UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42184: Type 4, 4X, 12
IEC 60529, IP66

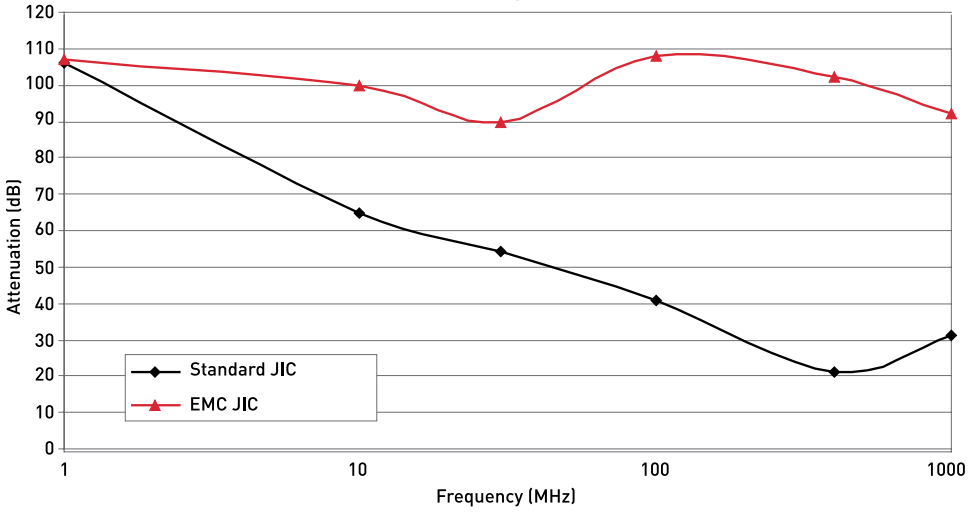
Standard Product

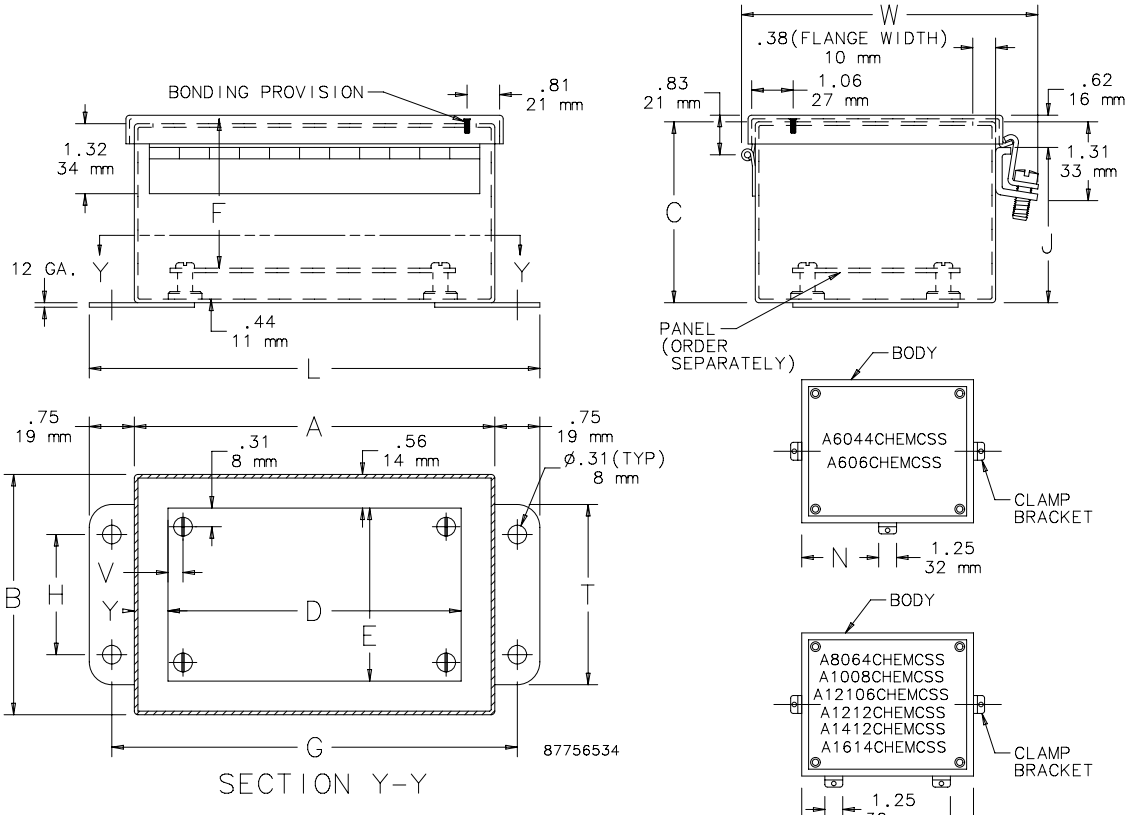
Catalog Number	AxBxC in./mm	UL Listed	Body Gauge	Cover Gauge	Stainless Steel Panel	Conductive Steel Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A6044CHEMCSS	6.00 x 4.00 x 4.00 152 x 102 x 102	508A	16	16	A6P4SS	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 4.94 191 x 125	3.50 89	3.62 92	2.38 60	3.00 76	0.31 8	0.56 14
A606CHEMCSS	6.00 x 6.00 x 4.00 152 x 152 x 102	50, 50E	16	16	A6P6SS	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.50 89	3.62 92	2.38 60	5.00 127	0.31 8	0.56 14
A8064CHEMCSS	8.00 x 6.00 x 4.00 203 x 152 x 102	50, 50E	14	16	A8P6SS	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.50 89	3.62 92	1.38 35	5.00 127	0.25 6	0.62 16
A1008CHEMCSS	10.00 x 8.00 x 4.00 254 x 203 x 102	50, 50E	14	16	A10P8SS	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.50 89	3.62 92	1.38 35	7.00 178	0.25 6	0.62 16
A12106CHEMCSS	12.00 x 10.00 x 6.00 305 x 254 x 152	50, 50E	14	16	A12P10SS	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	5.50 140	5.62 143	2.38 60	9.00 229	0.25 6	0.62 16
A1212CHEMCSS	12.00 x 12.00 x 6.00 305 x 305 x 152	50, 50E	14	16	A12P12SS	A12P12G	10.75 x 10.88 273 x 276	12.75 x 10.00 324 x 254	13.50 x 12.94 343 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1412CHEMCSS	14.00 x 12.00 x 6.00 356 x 305 x 152	50, 50E	14	16	A14P12SS	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.50 140	5.62 143	2.38 60	11.00 279	0.25 6	0.62 16
A1614CHEMCSS	16.00 x 14.00 x 6.00 406 x 356 x 152	50, 50E	14	16	A16P14SS	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.50 140	5.62 143	2.38 60	13.00 330	0.25 6	0.62 16

Purchase panels separately.

Stainless Steel JIC Shielding Effectiveness

Standard Stainless Steel JIC Cabinet Compared to EMC Stainless Steel JIC Cabinet





NOTE:
1. Optional panels are 14 gauge steel, conductive steel or stainless steel.
2. Panel screws are No. 10-32 pan head.

Clamp Bracket Locations

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CLAMP COVER, TYPE 4X

APPLICATION

Used in either corrosive or outdoor applications, Clamp Cover Enclosures combine a seamless foam-in-place gasket with stainless steel screw-down clamps for a consistent and reliable seal, yet the cover is easily removed for access and modifications.

SPECIFICATIONS

- 16 and 14 gauge Type 304 or 316L stainless steel
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket
- Stainless steel screws and clamps
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102 mm) and larger
- Bonding provision on door and body

FINISH

Cover and sides of body have smooth #4 brushed finish.

ACCESSORIES

Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Panels for Junction Boxes, page 1330
Terminal Block Kit Assembly for Junction Boxes, page 1380
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
HOL-SEALERS Hole Seals, page 1374

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51S

INDUSTRY STANDARDS

UL 50 Listed; Type 3R, 4, 4X, 12; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E27525
UL 508A, 508 Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42184: Type 4, 4X, 12
IEC 60529, IP66
Meets Type 3RX requirements

Standard Product

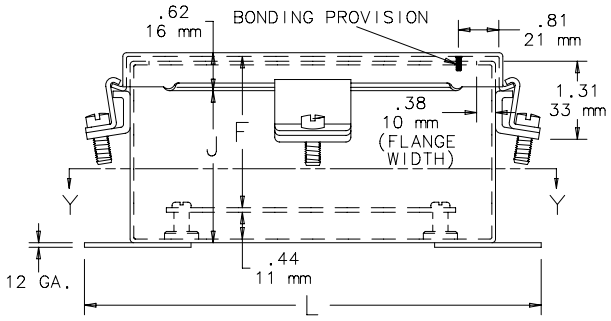
Catalog Number	AxBxC in./mm	UL Listed	Body Gauge	Cover Gauge	Steel Panel	Conductive Steel Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	M in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A404NFSS	4.00 x 4.00 x 3.00 102 x 102 x 76	508A	16	16	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 5.38 140 x 137	— —	2.56 65	1.38 35	1.38 35	3.00 76	— —	— —
A404NFSS6	4.00 x 4.00 x 3.00 102 x 102 x 76	508A	16	16	No Panel	No Panel	No Panel No Panel	4.75 x 2.00 121 x 51	5.50 x 5.38 140 x 137	— —	2.56 65	1.38 35	1.38 35	3.00 76	— —	— —
A6044NFSS	6.00 x 4.00 x 4.00 152 x 102 x 102	508A	16	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 5.38 191 x 137	3.50 89	3.56 90	1.38 35	1.38 35	3.00 76	0.31 8	0.56 14
A6044NFSS6	6.00 x 4.00 x 4.00 152 x 102 x 102	508A	16	16	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 5.38 191 x 137	3.50 89	3.56 90	1.38 35	1.38 35	3.00 76	0.31 8	0.56 14
A8064NFSS	8.00 x 6.00 x 4.00 203 x 152 x 102	50, 50E	14	16	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 7.38 241 x 187	3.50 89	3.56 90	— —	1.38 35	5.00 127	0.25 6	0.62 16
A8064NFSS6	8.00 x 6.00 x 4.00 203 x 152 x 102	50, 50E	14	16	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 7.38 241 x 187	3.50 89	3.56 90	— —	1.38 35	5.00 127	0.25 6	0.62 16
A606NFSS	6.00 x 6.00 x 4.00 152 x 152 x 102	50, 50E	16	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 7.38 191 x 187	3.50 89	3.56 90	2.38 60	1.38 35	5.00 127	0.31 8	0.56 14
A606NFSS6	6.00 x 6.00 x 4.00 152 x 152 x 102	50, 50E	16	16	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 7.38 191 x 187	3.50 89	3.56 90	2.38 60	1.38 35	5.00 127	0.31 8	0.56 14
A1008NFSS	10.00 x 8.00 x 4.00 254 x 203 x 102	50, 50E	14	16	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 9.38 292 x 238	3.50 89	3.56 90	— —	1.38 35	7.00 178	0.25 6	0.62 16
A1008NFSS6	10.00 x 8.00 x 4.00 254 x 203 x 102	50, 50E	14	16	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 9.38 292 x 238	3.50 89	3.56 90	— —	1.38 35	7.00 178	0.25 6	0.62 16
A12106NFSS	12.00 x 10.00 x 6.00 305 x 254 x 152	50, 50E	14	16	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 11.38 343 x 289	5.50 140	5.56 141	— —	2.38 60	9.00 229	0.25 6	0.62 16
A12106NFSS6	12.00 x 10.00 x 6.00 305 x 254 x 152	50, 50E	14	16	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 11.38 343 x 289	5.50 140	5.56 141	— —	2.38 60	9.00 229	0.25 6	0.62 16
A1412NFSS	14.00 x 12.00 x 6.00 356 x 305 x 152	50, 50E	14	16	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 13.38 394 x 340	5.50 140	5.56 141	— —	2.38 60	11.00 279	0.25 6	0.62 16
A1412NFSS6	14.00 x 12.00 x 6.00 356 x 305 x 152	50, 50E	14	16	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 13.38 394 x 340	5.50 140	5.56 141	— —	2.38 60	11.00 279	0.25 6	0.62 16
A1614NFSS	16.00 x 14.00 x 6.00 406 x 356 x 152	50, 50E	14	16	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 15.38 445 x 391	5.50 140	5.56 141	— —	2.38 60	13.00 330	0.25 6	0.62 16
A1614NFSS6	16.00 x 14.00 x 6.00 406 x 356 x 152	50, 50E	14	16	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 15.38 445 x 391	5.50 140	5.56 141	— —	2.38 60	13.00 330	0.25 6	0.62 16

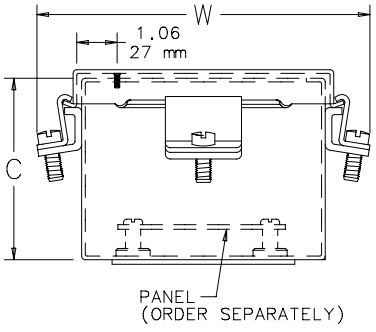
A404NFSS, A404NFSS6, A6044NFSS and A6044NFSS6 are UL 508A Listed.

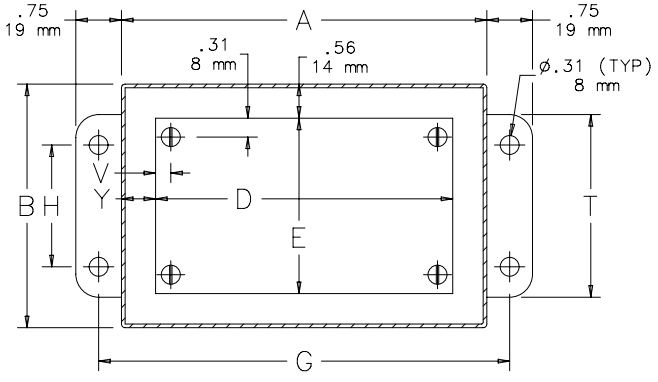
The remaining catalog numbers are UL 50 Listed.

Catalog numbers ending in "6" are Type 316L stainless steel.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are also available for most sizes.



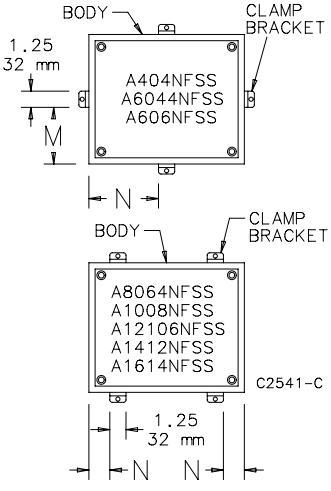




SECTION Y–Y

NOTE:
1. Optional stainless steel, composite and aluminum panels are available for most sizes

CLAMP BRACKET LOCATIONS



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PHARMAPRO, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997

NEMA/EEMAC Type 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

PHARMAPRO Enclosures are specifically designed for the pharmaceutical industry with flush mounting and a low RA value finish that minimizes surface crevices for thorough wipe-downs and eliminates areas where contaminants can accumulate. The mounting system pulls the enclosure flush and tight to the wall and can be used on block or stud walls.

FEATURES

- Specifically designed for pharmaceutical industry—flush mounting and flat surfaces eliminate areas where contaminants can accumulate
- Low RA value of PHARMAPRO finish minimizes surface crevices, allowing for a thorough wipe-down
- Enclosure does not protrude into the manufacturing area
- Mounting system included

SPECIFICATIONS

- Enclosure body manufactured from 14 gauge Type 304 stainless steel
- Mounting flange manufactured from 10 gauge Type 316L stainless steel
- Screw cover and hinged door manufactured from 12 gauge Type 316L stainless steel
- Seams continuously welded and ground smooth
- Type 316L stainless steel lift-off hinges used with hinged door
- Type 316L stainless steel slotted oval-head fasteners used with screw cover
- Stainless steel quarter-turn latches used with hinged door
- FDA-approved silicone gasket
- Grounding stud on body; bonding provision on cover or door

FINISH

PHARMAPRO low RA finish (typically 15-20 RA) applied to cover, door and mounting flange

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
CONCEPT Panels, page 1444
Mounting System, page 143

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A20S

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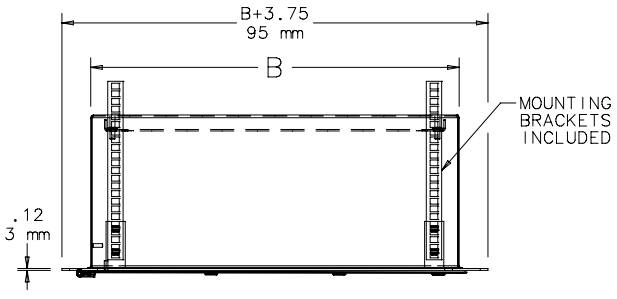
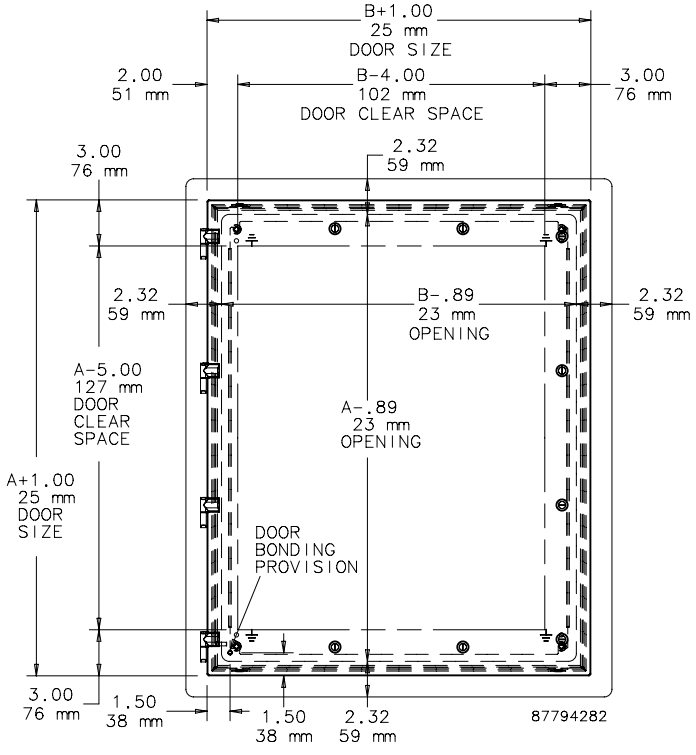
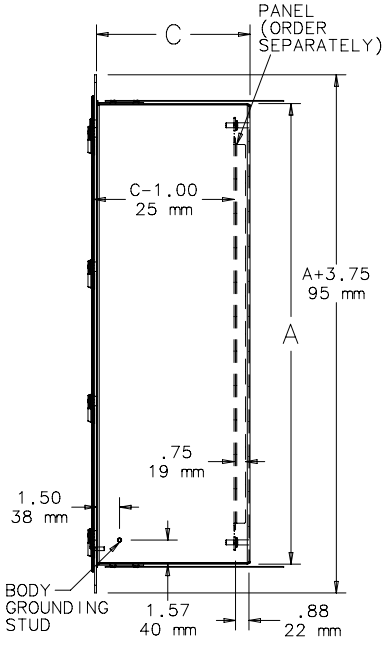
Standard Product **Hinged-Door**

Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Size of Mounting Cutout in./mm	Panel	Latches Qty.
AFM20144SS	20.00 x 14.00 x 4.00 508 x 356 x 102	12	14	21.00 x 15.00 533 x 381	CP2014	3
AFM20204SS	20.00 x 20.00 x 4.00 508 x 508 x 102	12	14	21.00 x 21.00 533 x 533	CP2020	5
AFM12126SS	12.00 x 12.00 x 6.00 305 x 305 x 152	12	14	13.00 x 13.00 330 x 330	CP1212	2
AFM16126SS	16.00 x 12.00 x 6.00 406 x 305 x 152	12	14	17.00 x 13.00 432 x 330	CP1612	3
AFM20166SS	20.00 x 16.00 x 6.00 508 x 406 x 152	12	14	21.00 x 17.00 533 x 432	CP2016	5
AFM20206SS	20.00 x 20.00 x 6.00 508 x 508 x 152	12	14	21.00 x 21.00 533 x 533	CP2020	5
AFM24206SS	24.00 x 20.00 x 6.00 610 x 508 x 152	12	14	25.00 x 21.00 635 x 533	CP2420	5
AFM24248SS	24.00 x 24.00 x 8.00 610 x 610 x 203	12	14	25.00 x 25.00 635 x 635	CP2424	7
AFM30248SS	30.00 x 24.00 x 8.00 762 x 610 x 203	12	14	21.00 x 25.00 533 x 635	CP3024	8
AFM242010SS	24.00 x 20.00 x 10.00 610 x 508 x 254	12	14	25.00 x 21.00 635 x 533	CP2420	5
AFM302410SS	30.00 x 24.00 x 10.00 762 x 610 x 254	12	14	31.00 x 25.00 787 x 635	CP3024	8







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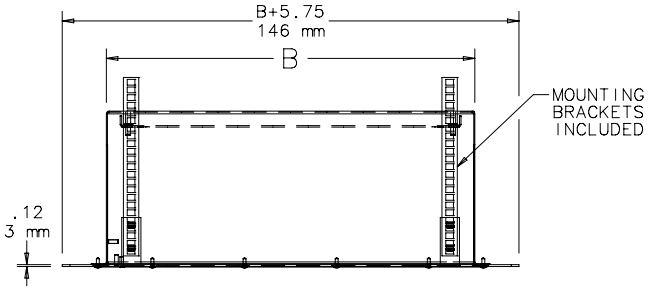
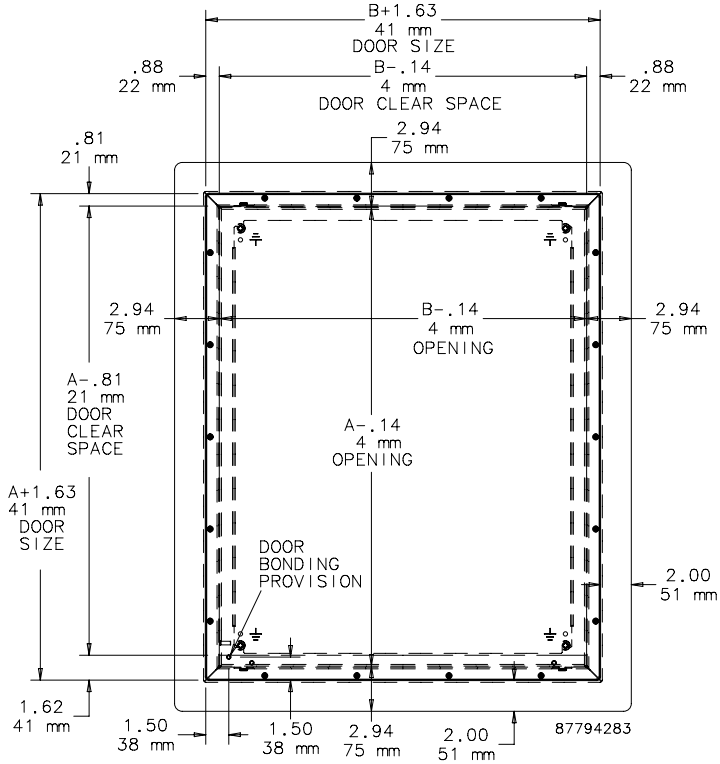
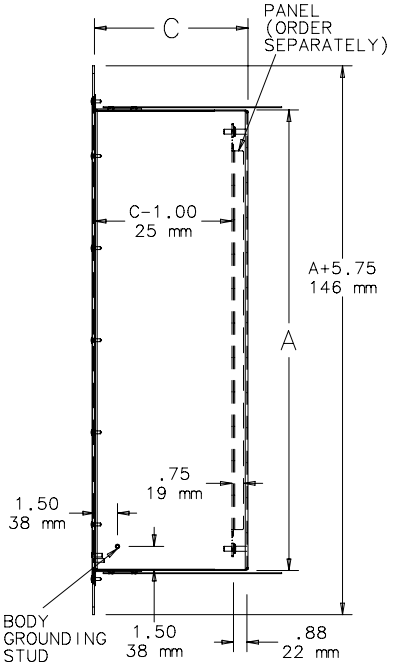
Standard Product **Screw-Cover**

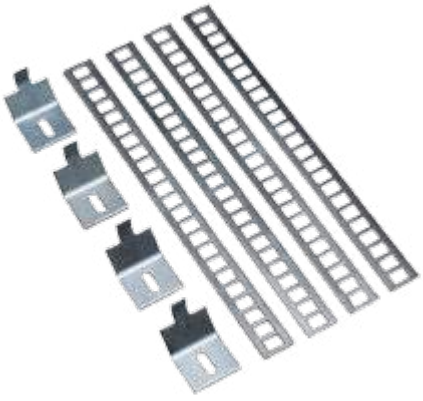
Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Size of Mounting Cutout in./mm	Panel	Latches Qty.
AFMSC20124SS	20.00 x 12.00 x 4.00 508 x 305 x 102	12	14	22.50 x 14.25 565 x 362	CP2012	NA
AFMSC20204SS	20.00 x 20.00 x 4.00 508 x 508 x 102	12	14	22.25 x 22.25 565 x 565	CP2020	NA
AFMSC12126SS	12.00 x 12.00 x 6.00 305 x 305 x 152	12	14	14.25 x 14.25 362 x 362	CP1212	NA
AFMSC16126SS	16.00 x 12.00 x 6.00 406 x 305 x 152	12	14	18.25 x 14.25 464 x 362	CP1612	NA
AFMSC20166SS	20.00 x 16.00 x 6.00 508 x 406 x 152	12	14	22.25 x 18.25 565 x 464	CP2016	NA
AFMSC20206SS	20.00 x 20.00 x 6.00 508 x 508 x 152	12	14	22.25 x 22.25 565 x 565	CP2020	NA
AFMSC24206SS	24.00 x 20.00 x 6.00 610 x 508 x 152	12	14	26.25 x 22.25 667 x 565	CP2420	NA
AFMSC24248SS	24.00 x 24.00 x 8.00 610 x 610 x 203	12	14	26.25 x 26.25 667 x 667	CP2424	NA
AFMSC30248SS	30.00 x 24.00 x 8.00 762 x 610 x 203	12	14	32.25 x 26.25 819 x 667	CP3024	NA
AFMSC242010SS	24.00 x 20.00 x 10.00 610 x 508 x 254	12	14	26.25 x 22.25 667 x 565	CP2420	NA
AFMSC302410SS	30.00 x 24.00 x 10.00 762 x 610 x 254	12	14	32.25 x 26.25 819 x 667	CP3024	NA



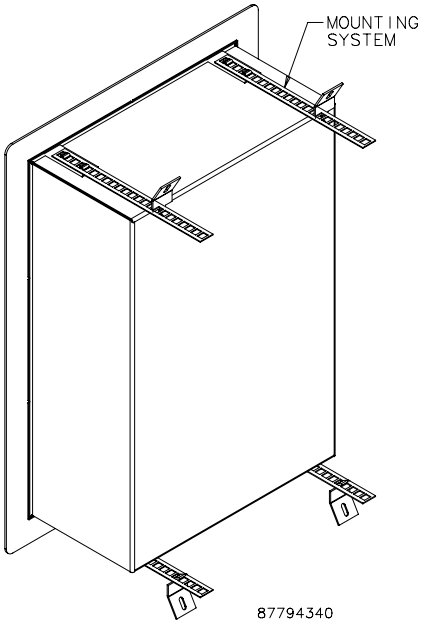




MOUNTING SYSTEM



Adjustable-depth mounting system is included with each enclosure. Mounting system can be used on either block or stud walls.



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INLINE, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Aesthetic styling, flush latches and an attractive, stroked finish make INLINE Enclosures an excellent choice when style and functionality are important. INLINE Enclosures have an outward formed body flange to prevent contaminants from entering the enclosure and are available in three cover styles: hinged window door, hinged solid door and solid screw cover.

SPECIFICATIONS

- 16 gauge covers and doors and 14 gauge bodies; Type 304 or 316L stainless steel
- Seams continuously welded and ground smooth
- External formed body flange trough
- Large perimeter body opening
- Fastening holes in back of body for direct mounting or optional external mounting brackets
- Seamless foam-in-place gasket
- M6 bonding provision on cover, M6 ground stud in body
- Furnished hardware kit includes panel mounting screws, grounding hardware and sealing washers for wall-mounting holes

INLINE Screw-Cover Enclosures

- Captivated Type 316 stainless steel cover screws with sealing bushings made of a durable composite material
- Integral compression stops maintain optimal gasket compression

INLINE Hinged-Door Enclosures

- 180-degree door opening
- Removable Type 316 stainless steel hinge pins
- Standard self-grounding, slotted, quarter-turn Type 316 stainless steel latch system with double seal

INLINE Window-Door Enclosures

- 3/16-in. (4.8-mm) clear polycarbonate window is mounted flush with cover surface
- 180-degree door opening
- Removable Type 316 stainless steel hinge pins
- Standard self-grounding, slotted, quarter-turn Type 316 stainless steel latch system with double seal

FINISH

Cover and body have smooth #4 brushed finish.

ACCESSORIES

DIN Rail or Panel-Mounting Brackets, page 1439
DIN3 Type Rails, page 1439
Lock Inserts, page 1438
Mounting Bracket Kit, Plated and 316, page 1438
Panel, page 1438
Wing Knob Latch, page 1438

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A54S

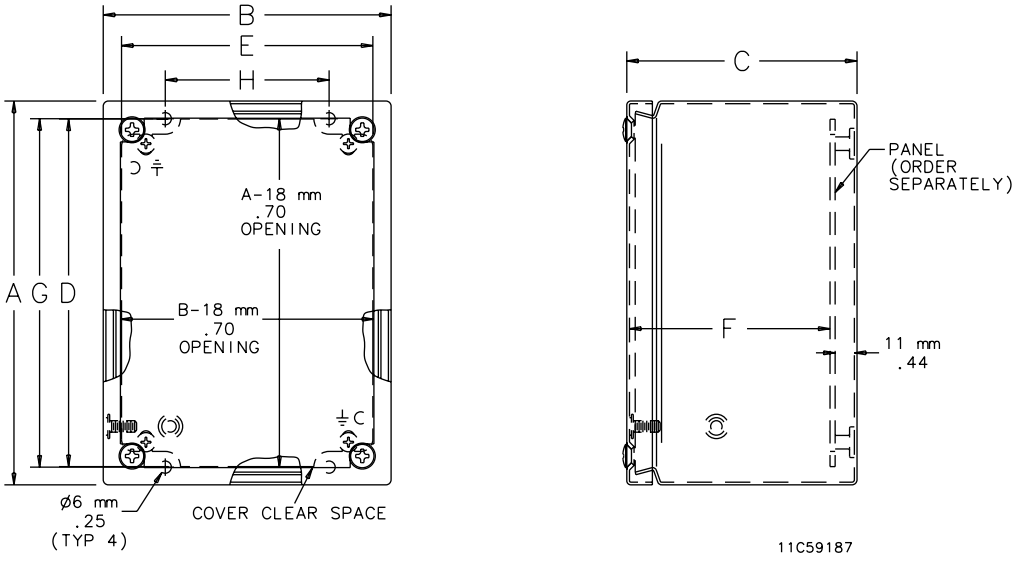
Standard Product **Screw-Cover**

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.
LSC151512SS	5.91 x 5.91 x 4.72 150 x 150 x 120	304	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.18 x 3.36	105 4.13
LSC151512SS6	5.91 x 5.91 x 4.72 150 x 150 x 120	316L	LP1515	LP1515G	131 x 131 5.16 x 5.16	132 x 85 5.18 x 3.36	105 4.13
LSC201512SS	7.87 x 5.91 x 4.72 200 x 150 x 120	304	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.15 x 3.35	105 4.13
LSC201512SS6	7.87 x 5.91 x 4.72 200 x 150 x 120	316L	LP2015	LP2015G	181 x 131 7.13 x 5.16	182 x 85 7.15 x 3.35	105 4.13
LSC252015SS	9.84 x 7.87 x 5.91 250 x 200 x 150	304	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.12 x 5.33	135 5.31
LSC252015SS6	9.84 x 7.87 x 5.91 250 x 200 x 150	316L	LP2520	LP2520G	231 x 181 9.09 x 7.13	232 x 135 9.12 x 5.33	135 5.31
LSC302515SS	11.81 x 9.84 x 5.91 300 x 250 x 150	304	LP3025	LP3025G	281 x 231 11.06 x 9.09	281 x 185 11.08 x 7.30	135 5.31
LSC302515SS6	11.81 x 9.84 x 5.91 300 x 250 x 150	316L	LP3025	LP3025G	281 x 231 11.06 x 9.09	281 x 185 11.08 x 7.30	135 5.31
LSC353020SS	13.78 x 11.81 x 7.87 350 x 300 x 200	304	LP3530	LP3530G	331 x 281 13.03 x 11.06	331 x 235 13.05 x 9.27	185 7.28
LSC353020SS6	13.78 x 11.81 x 7.87 350 x 300 x 200	316L	LP3530	LP3530G	331 x 281 13.03 x 11.06	331 x 235 13.05 x 9.27	185 7.28

Purchase panels separately.

Catalog numbers ending in 6 are Type 316L stainless steel.

INLINE Stainless Steel Screw Cover Enclosure



Notes:
1. Panels are 2.7mm (12 gauge) steel or conductive steel.
2. Panel screws are M5-0.8 pan head.
3. Rear mounting holes will accommodate M6-1.0 or 1/4-20 UNC mounting screws (supplied by customer).

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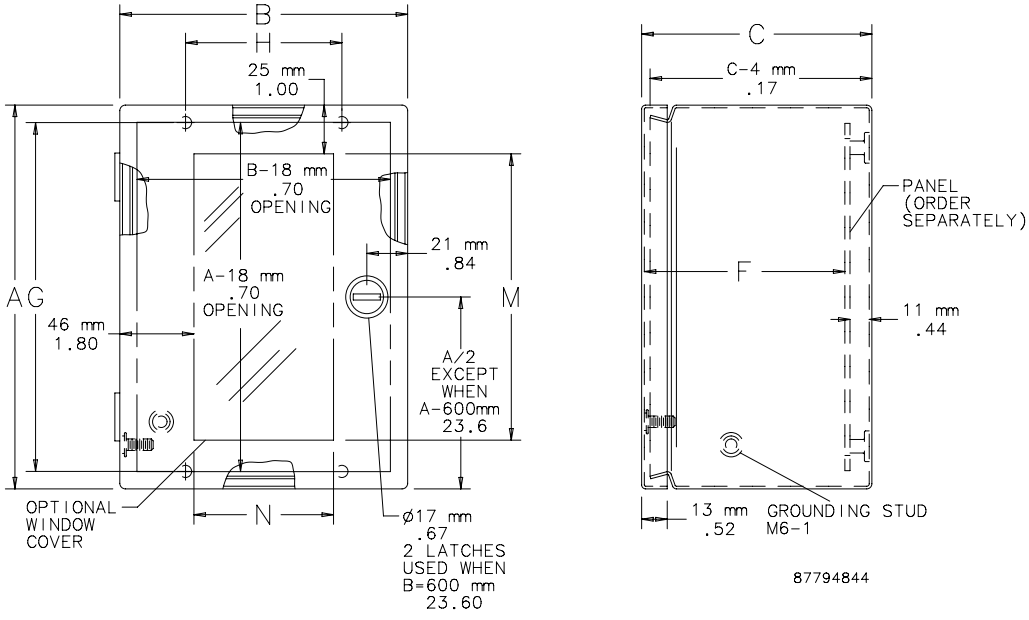
Standard Product **Hinged-Cover**

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H mm/in.	F in./mm
LHC151512SS	5.91 x 5.91 x 4.72 150 x 150 x 120	304	LP1515	LP1515G	5.16 x 5.16 131 x 131	132 x 85 5.18 x 3.36	4.13 105
LHC151512SS6	5.91 x 5.91 x 4.72 150 x 150 x 120	316L	LP1515	LP1515G	5.16 x 5.16 131 x 131	132 x 85 5.18 x 3.36	4.13 105
LHC201512SS	7.87 x 5.91 x 4.72 200 x 150 x 120	304	LP2015	LP2015G	7.13 x 5.16 181 x 131	182 x 85 7.15 x 3.36	4.13 105
LHC201512SS6	7.87 x 5.91 x 4.72 200 x 150 x 120	316L	LP2015	LP2015G	7.13 x 5.16 181 x 131	182 x 85 7.15 x 3.36	4.13 105
LHC252015SS	9.84 x 7.87 x 5.91 250 x 200 x 150	304	LP2520	LP2520G	9.09 x 7.13 231 x 181	232 x 135 9.12 x 5.33	5.31 135
LHC252015SS6	9.84 x 7.87 x 5.91 250 x 200 x 150	316L	LP2520	LP2520G	9.09 x 7.13 231 x 181	232 x 135 9.12 x 5.33	5.31 135
LHC302515SS	11.81 x 9.84 x 5.91 300 x 250 x 150	304	LP3025	LP3025G	11.06 x 9.09 281 x 231	281 x 185 11.08 x 7.30	5.31 135
LHC302515SS6	11.81 x 9.84 x 5.91 300 x 250 x 150	316L	LP3025	LP3025G	11.06 x 9.09 281 x 231	281 x 185 11.08 x 7.30	5.31 135
LHC353020SS	13.78 x 11.81 x 7.87 350 x 300 x 200	304	LP3530	LP3530G	13.03 x 11.06 331 x 281	331 x 235 13.05 x 9.27	7.28 185
LHC353020SS6	13.78 x 11.81 x 7.87 350 x 300 x 200	316L	LP3530	LP3530G	13.03 x 11.06 331 x 281	331 x 235 13.05 x 9.27	7.28 185

Purchase panels separately.

Catalog numbers ending in 6 are Type 316L stainless steel.

INLINE Stainless Steel Hinged Door and Window Door Enclosure



Note: Hinged on "B" side of enclosure when B = 400mm or 600mm.

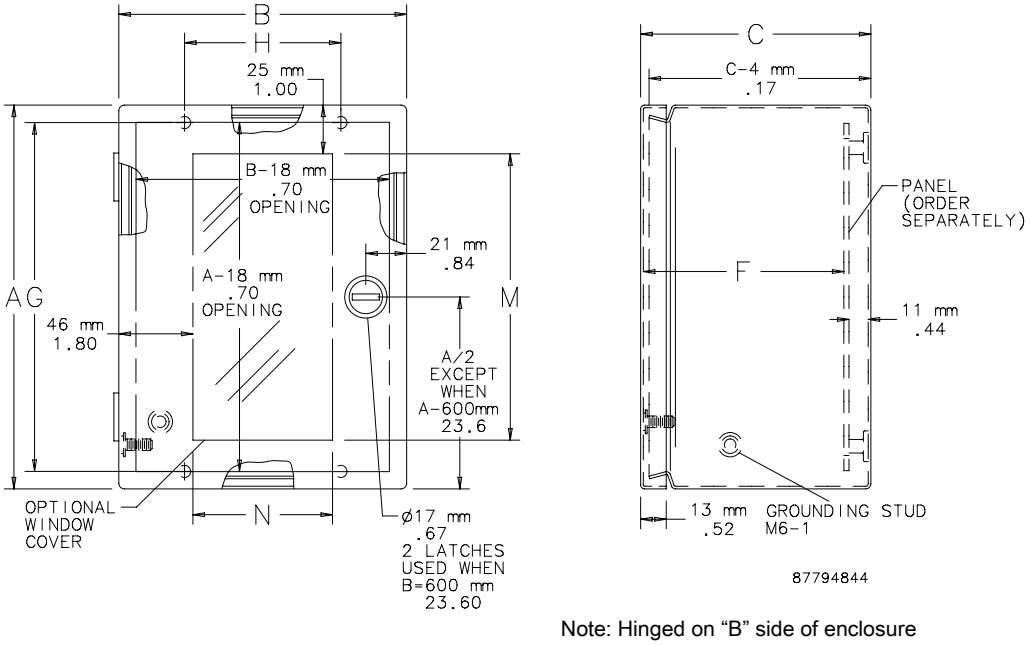
Standard Product **Window-Door**

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H mm/in.	Window Size M x N in./mm	F in./mm
LWC201512SS	7.87 x 5.91 x 4.72 200 x 150 x 120	304	LP2015	LP2015G	7.13 x 5.16 181 x 131	182 x 85 7.15 x 3.36	5.87 x 2.56 149 x 65	3.98 101
LWC201512SS6	7.87 x 5.91 x 4.72 200 x 150 x 120	316L	LP2015	LP2015G	7.13 x 5.16 181 x 131	182 x 85 7.15 x 3.36	5.87 x 2.56 149 x 65	3.98 101
LWC252015SS	9.84 x 7.87 x 5.91 250 x 200 x 150	304	LP2520	LP2520G	9.09 x 7.13 231 x 181	232 x 135 9.12 x 5.33	7.83 x 4.53 199 x 115	5.16 131
LWC252015SS6	9.84 x 7.87 x 5.91 250 x 200 x 150	316L	LP2520	LP2520G	9.09 x 7.13 231 x 181	232 x 135 9.12 x 5.33	7.83 x 4.53 199 x 115	5.16 131
LWC302515SS	11.81 x 9.84 x 5.91 300 x 250 x 150	304	LP3025	LP3025G	11.06 x 9.09 281 x 231	281 x 185 11.08 x 7.30	9.80 x 6.50 249 x 165	5.16 131
LWC302515SS6	11.81 x 9.84 x 5.91 300 x 250 x 150	316L	LP3025	LP3025G	11.06 x 9.09 281 x 231	281 x 185 11.08 x 7.30	9.80 x 6.50 249 x 165	5.16 131
LWC204015SS	7.87 x 15.75 x 5.91 200 x 400 x 150	304	LP2040	LP2040G	7.13 x 15.00 181 x 381	182 x 335 7.15 x 13.20	4.53 x 13.74 115 x 349	5.16 131
LWC204015SS6	7.87 x 15.75 x 5.91 200 x 400 x 150	316L	LP2040	LP2040G	7.13 x 15.00 181 x 381	182 x 335 7.15 x 13.20	4.53 x 13.74 115 x 349	5.16 131
LWC206015SS	7.87 x 23.62 x 5.91 200 x 600 x 150	304	LP2060	LP2060G	7.13 x 22.87 181 x 581	182 x 535 7.15 x 21.08	4.53 x 21.61 115 x 549	5.16 131
LWC206015SS6	7.87 x 23.62 x 5.91 200 x 600 x 150	316L	LP2060	LP2060G	7.13 x 22.87 181 x 581	182 x 535 7.15 x 21.08	4.53 x 21.61 115 x 549	5.16 131

Purchase panels separately.

Catalog numbers ending in 6 are Type 316L stainless steel.

INLINE Stainless Steel Hinged Door and Window Door Enclosure



Note: Hinged on “B” side of enclosure when B = 400mm or 600mm.

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INLINE LANDSCAPE, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

NEMA/EEMAC Type 4, 4X, 12
CSA File Number 42186: Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

When applications require mounting electrical components the full width of the enclosure, the landscape orientation of this aesthetic INLINE Enclosure makes this possible. The full-width mounting brackets can be drilled anywhere along their length, providing maximum mounting flexibility.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel body; 16 gauge Type 304 stainless steel door
- Seams continuously welded and ground smooth
- External formed body flange trough
- Large perimeter body opening
- Mounting brackets are spot-welded to top and bottom of enclosure
- Mounting brackets have predrilled mounting holes; customer-specific location holes can be drilled for mounting flexibility
- Seamless foam-in-place gasket
- M6 ground stud with base flange on body; M6 bonding provision with base flange on door
- Furnished hardware kit includes panel mounting screws and grounding hardware
- Hinged door with removable hinge pins and self-grounding quarter-turn latch system with double seal
- Door opens 180 degrees
- Window door models include 3/16-in. (4.8-mm) clear polycarbonate window mounted flush with door surface

FINISH

Type 304 stainless steel with #4 brushed finish. Back is not brushed.

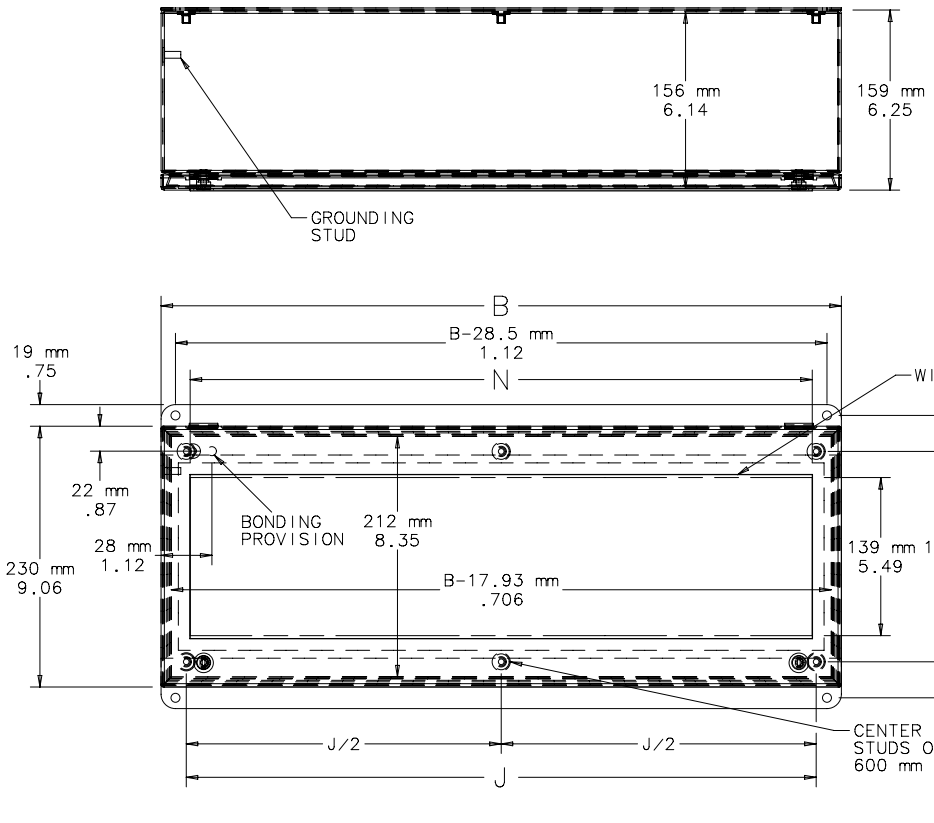
ACCESSORIES

Mounting Bracket Kit, Plated and 316, page 1438
Lock Inserts, page 1438
Wing Knob Latch, page 1438
Grounding Kit, page 1439
DIN3 Type Rails, page 1439
DIN Rail or Panel-Mounting Brackets, page 1439

BULLETIN: A54S

Standard Product

Catalog Number	AxBxC in./mm	Enclosure B mm/in.	Window N mm/in.	Mtg. Holes H mm/in.	Mtg. Studs J mm/in.	Clear Space Above Panel mm/in.
LHC233116SS	9.06 x 12.20 x 6.10	310	—	281	265	140
	230 x 310 x 155	12.21	—	11.08	10.45	5.51
LWC233116SS	9.06 x 12.20 x 6.10	310	259	281	265	140
	230 x 310 x 155	12.21	10.20	11.08	10.45	5.51
LHC234616SS	9.06 x 18.11 x 6.10	460	—	431	416	140
	230 x 460 x 155	18.11	—	16.99	16.36	5.51
LWC234616SS	9.06 x 18.11 x 6.10	460	409	431	416	140
	230 x 460 x 155	18.11	16.11	16.99	16.36	5.51
LHC236016SS	9.06 x 23.62 x 6.10	600	—	571	556	140
	230 x 600 x 155	23.62	—	22.50	21.88	5.51
LWC236016SS	9.06 x 23.62 x 6.10	600	549	571	556	140
	230 x 600 x 155	23.62	21.62	22.50	21.88	5.51
LHC237716SS	9.06 x 30.31 x 6.10	770	—	741	726	140
	230 x 770 x 155	30.32	—	29.19	28.57	5.51
LWC237716SS	9.06 x 30.31 x 6.10	770	719	741	726	140
	230 x 770 x 155	30.32	28.31	29.19	28.57	5.51
LHC239316SS	9.06 x 36.61 x 6.10	925	—	896	881	140
	230 x 930 x 155	36.42	—	35.29	34.67	5.51
LWC239316SS	9.06 x 36.61 x 6.10	925	874	896	881	140
	230 x 930 x 155	36.42	34.42	35.29	34.67	5.51

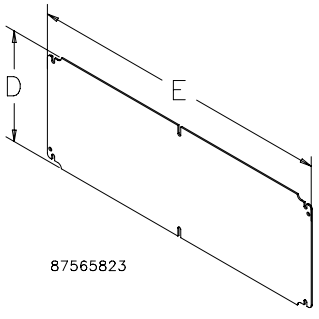


LANDSCAPE PANELS

Panels are 12 gauge steel with a white polyester powder paint or conductive finish. They include a labeled ground hole sized for an M6 screw. Panels mount on studs provided in the enclosure or to optional DIN mounting brackets.

BULLETIN: A54P

Catalog Number	Conductive Panel	Material	Panel Size D x E (mm)	Panel Size D x E (in.)
LP2331	LP2331G	Painted Steel	211 x 291	8.31 x 11.46
LP2346	LP2346G	Painted Steel	211 x 441	8.31 x 17.36
LP2360	LP2360G	Painted Steel	211 x 581	8.31 x 22.87
LP2377	LP2377G	Painted Steel	211 x 751	8.31 x 29.57
LP2393	LP2393G	Painted Steel	211 x 906	8.31 x 35.67



OPTIONAL COMPONENTS SELECTION GUIDE

Use the table to assist with selection of the optional components for the appropriate INLINE enclosure.

BULLETIN: A54S

Catalog Number	AxBxC in.	AxBxC mm	Solid or Window Cover Enclosure	Panel	Conductive	DIN Rail	DIN Rail or Panel Mounting Bracket
LHC233116SS	9.06 x 12.20 x 6.10	230 x 310 x 155	Solid Cover	LP2331	LP2331G	LDR3P31	LMK23
LWC233116SS	9.06 x 12.20 x 6.10	230 x 310 x 155	Window Cover	LP2331	LP2331G	LDR3P31	LMK23
LHC234616SS	9.06 x 18.11 x 6.10	230 x 460 x 155	Solid Cover	LP2346	LP2346G	LDR3P46	LMK23
LWC234616SS	9.06 x 18.11 x 6.10	230 x 460 x 155	Window Cover	LP2346	LP2346G	LDR3P46	LMK23
LHC236016SS	9.06 x 23.62 x 6.10	230 x 600 x 155	Solid Cover	LP2360	LP2360G	LDR3P60	LMK23
LWC236016SS	9.06 x 23.62 x 6.10	230 x 600 x 155	Window Cover	LP2360	LP2360G	LDR3P60	LMK23
LHC237716SS	9.06 x 30.31 x 6.10	230 x 770 x 155	Solid Cover	LP2377	LP2377G	LDR3P77	LMK23
LWC237716SS	9.06 x 30.31 x 6.10	230 x 770 x 155	Window Cover	LP2377	LP2377G	LDR3P77	LMK23
LHC239316SS	9.06 x 36.61 x 6.10	230 x 930 x 155	Solid Cover	LP2393	LP2393G	LDR3P93	LMK23
LWC239316SS	9.06 x 36.61 x 6.10	230 x 930 x 155	Window Cover	LP2393	LP2393G	LDR3P93	LMK23

600-mm and longer enclosures require two sets of brackets for mounting panels.

EXTRA-DEEP 30.5-MM PUSHBUTTON ENCLOSURES, TYPE 4X

APPLICATION

Designed to house 30.5-mm oil-tight pushbuttons, switches and pilot lights. Enclosures provide protection against dirt, dust, oil and water. Extra-deep design accommodates additional contact blocks for pushbuttons.
See Mild Steel chapter for related mild steel enclosures.

SPECIFICATIONS

- 14 gauge bodies, 16 gauge covers; Type 304 or Type 316 stainless steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on door; grounding nut on body
- 4-way pushbutton holes accept all brands of oil-tight pushbuttons, switches and pilot lights
- Enclosures 6.00 x 4.00 x 4.75 in. (152 x 102 x 121 mm) and larger have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Oil-resistant gasket

FINISH

Cover and sides of body have smooth #4 brushed finish.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

BULLETIN: PB1S

INDUSTRY STANDARDS

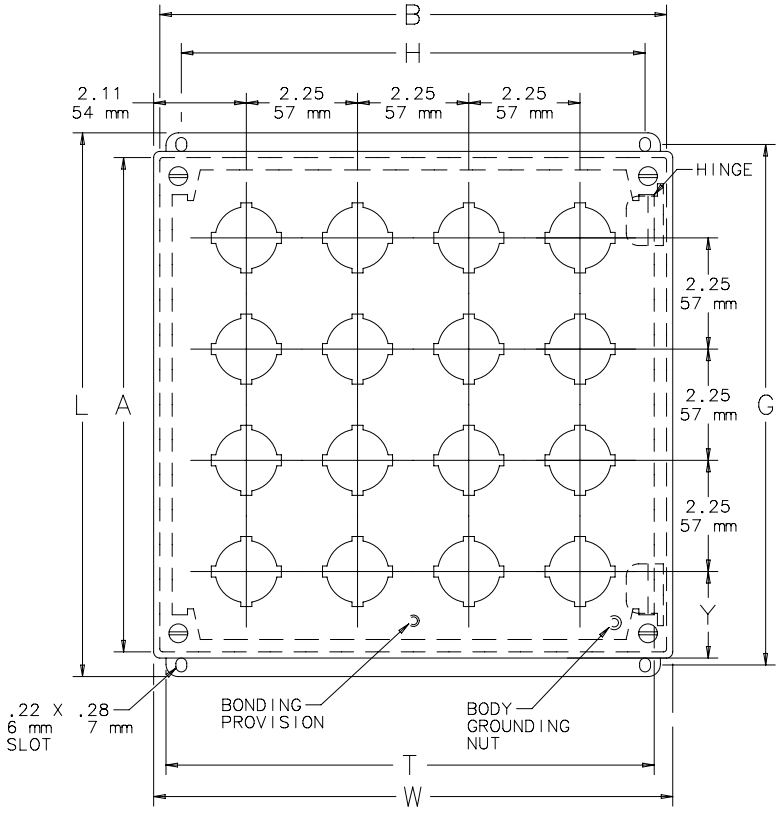
UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

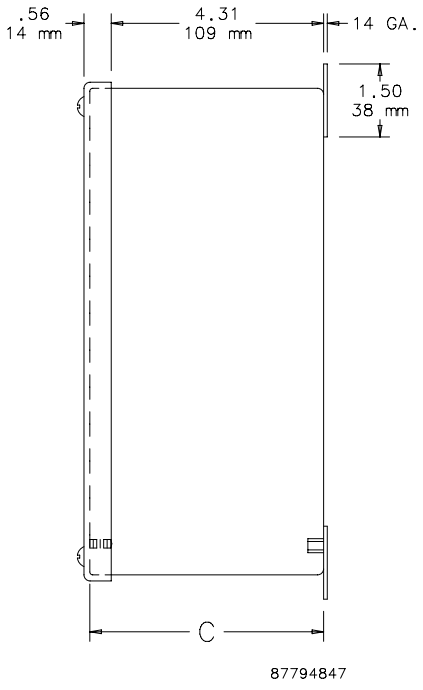
NEMA/EEMAC Type 4X, 12, 13
CSA File Number 42186: Type 4, 4X, 12
IEC 60529, IP66

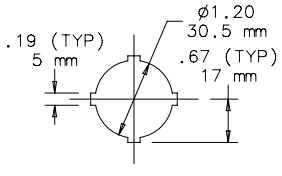
Standard Product

Catalog Number	AxBxC in./mm	Stainless Steel Type	Gauge	Number of Holes	Mounting G x H in./mm	Overall L x W in./mm	T in./mm	Y in./mm
E1PBXSS	4.00 x 4.00 x 4.75 102 x 102 x 121	304	16	1	4.50 x 3.12 114 x 79	5.00 x 4.22 127 x 107	3.75 95	2.11 54
E2PBXSS	6.00 x 4.00 x 4.75 152 x 102 x 121	304	14	2	6.50 x 3.12 165 x 79	7.00 x 4.22 178 x 107	3.75 95	1.98 50
E3PBXSS	8.00 x 4.00 x 4.75 203 x 102 x 121	304	14	3	8.50 x 3.12 216 x 79	9.00 x 4.22 229 x 107	3.75 95	1.86 47
E4PBXSS	10.00 x 4.00 x 4.75 254 x 102 x 121	304	14	4	10.50 x 3.12 267 x 79	11.00 x 4.22 279 x 107	3.75 95	1.73 44
E16PBXSS	11.75 x 10.75 x 4.75 298 x 273 x 121	304	14	16	12.25 x 9.88 311 x 251	12.75 x 10.97 324 x 279	10.50 267	2.61 66
E16PBXSS6	11.75 x 10.75 x 4.75 298 x 273 x 121	316	14	16	12.25 x 9.88 311 x 251	12.75 x 10.97 324 x 279	10.50 267	2.61 66

Catalog number ending in 6 is Type 316L stainless steel.



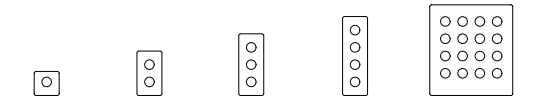




30.5mm 4-WAY

NOTE: Cover bonding provision location varies based on pushbutton pattern.

Hole Arrangement



E1PBXSS E2PBXSS E3PBXSS E4PBXSS E16PBXSS E16PBXSS6

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EXTRA-DEEP 22.5-MM PUSHBUTTON ENCLOSURES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

NEMA/EEMAC Type 4X, 12, 13
CSA File Number 42186: Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Designed to house 22.5-mm oil-tight pushbuttons, switches and pilot lights. Enclosures provide protection against dust, dirt, oil and water. Extra-deep design accommodates additional contact blocks for pushbuttons.

SPECIFICATIONS

- Type 304 stainless steel
- Seams continuously welded and ground smooth
- Captivated stainless steel cover screws thread into sealed wells
- Enclosures 8.50 x 4.00 x 4.75 in. (216 x 102 x 121 mm) and larger have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Bonding provision on door; grounding nut on body
- Oil-resistant gasket

FINISH

Covers and sides of body have a smooth #4 brushed finish.

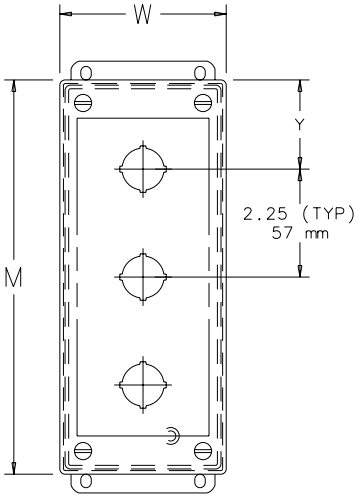
ACCESSORIES

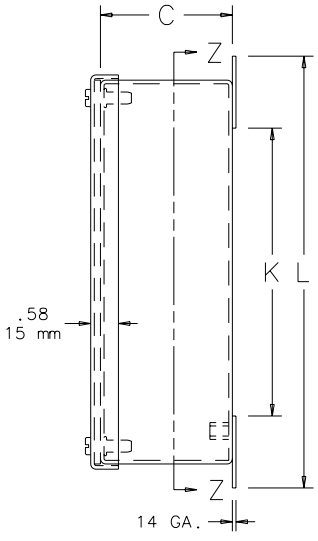
Industrial Corrosion Inhibitors, page 1378
HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

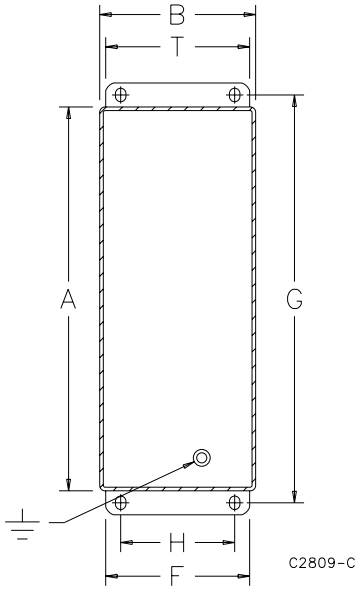
BULLETIN: PB1S

Standard Product

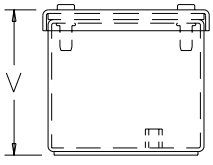
Catalog Number	AxBxC in./mm	Body Gauge	Cover Gauge	Holes	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	K in./mm	M in./mm	T in./mm	V in./mm	Y in./mm
E1PBGXSS	4.00 x 4.00 x 4.75 102 x 102 x 121	16	16	1	4.50 x 3.13 114 x 80	5.00 x 4.22 127 x 107	3.75 95	2.00 51	4.18 106	3.75 95	5.00 127	— —
E2PBGXSS	6.00 x 4.00 x 4.75 152 x 102 x 121	14	16	2	6.50 x 3.13 165 x 80	7.00 x 4.22 178 x 107	3.75 95	4.00 102	6.18 157	3.75 95	5.00 127	1.98 50
E3PBGXSS	8.00 x 4.00 x 4.75 203 x 102 x 121	14	16	3	8.50 x 3.13 216 x 80	9.00 x 4.22 229 x 107	3.75 95	6.00 152	8.18 208	3.75 95	5.00 127	1.86 47
E4PBGXSS	10.00 x 4.00 x 4.75 254 x 102 x 121	14	16	4	10.50 x 3.13 267 x 80	11.00 x 4.22 270 x 107	3.75 95	8.00 203	10.18 259	3.75 95	5.00 127	1.73 44

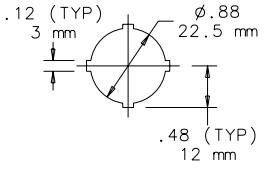

W
Y
2.25 (TYP)
57 mm
M


C
Z
K L
.58
15 mm
E
Z
14 GA.

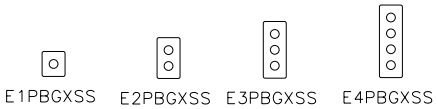

B
T
A
G
H
F
C2809-C

Z-Z


V


.12 (TYP)
3 mm
ø.88
22.5 mm
.48 (TYP)
12 mm

22.5mm


E1PBGXSS
E2PBGXSS
E3PBGXSS
E4PBGXSS

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30.5-MM AND 22.5-MM PUSHBUTTON ENCLOSURES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

NEMA/EEMAC Type 4X, 12, 13
CSA File Number 42186: Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Punched specifically to house either 30.5-mm or 22.5-mm oil-tight pushbuttons, switches and pilot lights. Enclosures provide protection against dirt, dust, oil and water.
See Mild Steel chapter for related mild steel enclosures.

SPECIFICATIONS

- 14 gauge bodies, 16 gauge covers; Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Bonding provision on door; grounding nut on body
- 4-way pushbutton holes accept all brands of oil-tight pushbuttons, switches and pilot lights
- Enclosures with more than one column of pushbutton holes have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Oil-resistant gasket

FINISH

Cover and sides of body have smooth #4 brushed finish.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
HOL-SEALERS Hole Seals, page 1374
Tamper-Resistant Screws, page 1408

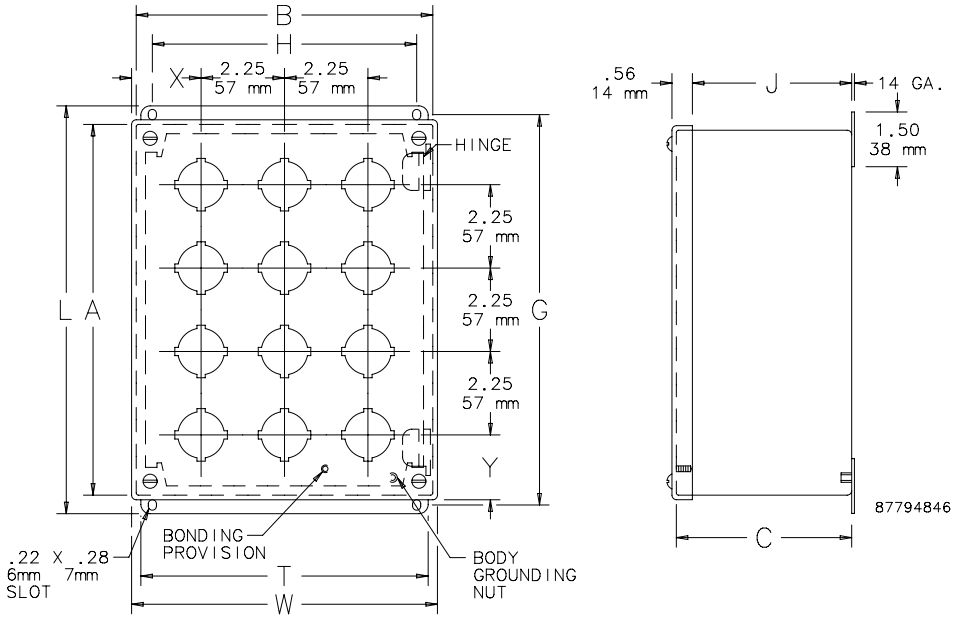
BULLETIN: PB1S

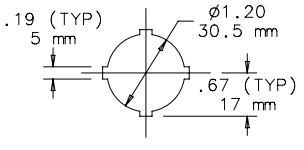
Standard Product

Catalog Number	AxBxC in./mm	Hole Size	Stainless Steel Type	Gauge	Number of Holes	Mounting G x H in./mm	Overall L x W in./mm	J in./mm	T in./mm	X in./mm	Y in./mm
E1PBSS	3.50 x 4.25 x 2.75 89 x 108 x 70	30.5 mm	Type 304	16	1	4.00 x 2.38 102 x 60	4.50 x 3.47 114 x 88	2.31 59	3.00 76	1.73 47	1.86 47
E1PBSS6	3.50 x 4.25 x 2.75 89 x 108 x 70	30.5 mm	Type 316L	16	1	4.00 x 2.38 102 x 60	4.50 x 3.47 114 x 88	2.31 59	3.00 76	1.73 47	1.86 47
E1PBGSS	3.50 x 4.25 x 2.75 89 x 108 x 70	22.5 mm	Type 304	16	1	4.00 x 2.38 102 x 60	4.50 x 3.47 114 x 88	2.31 59	3.00 76	1.73 47	1.86 47
E2PBSS	5.75 x 3.25 x 2.75 146 x 83 x 70	30.5 mm	Type 304	16	2	6.25 x 2.38 159 x 60	6.75 x 3.47 171 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E2PBSS6	5.75 x 3.25 x 2.75 146 x 83 x 70	30.5 mm	Type 316L	16	2	6.25 x 2.38 159 x 60	6.75 x 3.47 171 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E2PBGSS	5.75 x 3.25 x 2.75 146 x 83 x 70	22.5 mm	Type 304	16	2	6.25 x 2.38 159 x 60	6.75 x 3.47 171 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E3PBSS	8.00 x 3.25 x 2.75 203 x 83 x 70	30.5 mm	Type 304	14	3	8.50 x 2.38 216 x 60	9.00 x 3.47 229 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E3PBSS6	8.00 x 3.25 x 2.75 203 x 83 x 70	30.5 mm	Type 316L	14	3	8.50 x 2.38 216 x 60	9.00 x 3.47 229 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E3PBGSS	8.00 x 3.25 x 2.75 203 x 83 x 70	22.5 mm	Type 304	14	3	8.50 x 2.38 216 x 60	9.00 x 3.47 229 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E4PBSS	10.00 x 3.25 x 2.75 254 x 83 x 70	30.5 mm	Type 304	14	4	10.75 x 2.38 273 x 60	11.25 x 3.47 286 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E4PBSS6	10.00 x 3.25 x 2.75 254 x 83 x 70	30.5 mm	Type 316L	14	4	10.75 x 2.38 273 x 60	11.25 x 3.47 286 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E4PBGSS	10.00 x 3.25 x 2.75 254 x 83 x 70	22.5 mm	Type 304	14	4	10.75 x 2.38 273 x 60	11.25 x 3.47 286 x 88	2.31 59	3.00 76	1.73 44	1.86 47
E6PBSS	9.50 x 6.25 x 3.00 241 x 159 x 76	30.5 mm	Type 304	14	6	10.00 x 5.38 254 x 137	10.50 x 6.47 267 x 164	2.56 65	6.00 152	2.11 54	2.61 66
E6PBSS6	9.50 x 6.25 x 3.00 241 x 159 x 76	30.5 mm	Type 316L	14	6	10.00 x 5.38 254 x 137	10.50 x 6.47 267 x 164	2.56 65	6.00 152	2.11 54	2.61 66
E6PBGSS	9.50 x 6.25 x 3.00 241 x 159 x 76	22.5 mm	Type 304	14	6	10.00 x 5.38 254 x 137	10.50 x 6.47 267 x 164	2.56 65	6.00 152	2.11 54	2.61 66
E9PBSS	9.50 x 8.50 x 3.00 241 x 216 x 76	30.5 mm	Type 304	14	9	10.00 x 7.62 254 x 194	10.50 x 8.72 267 x 221	2.56 65	8.25 210	2.11 54	2.61 66
E9PBSS6	9.50 x 8.50 x 3.00 241 x 216 x 76	30.5 mm	Type 316L	14	9	10.00 x 7.62 254 x 194	10.50 x 8.72 267 x 221	2.56 65	8.25 210	2.11 54	2.61 66

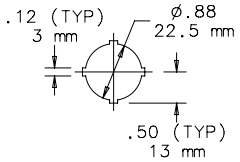
Catalog Number	AxBxC in./mm	Hole Size	Stainless Steel Type	Gauge	Number of Holes	Mounting G x H in./mm	Overall L x W in./mm	J in./mm	T in./mm	X in./mm	Y in./mm
E9PBGSS	9.50 x 8.50 x 3.00 241 x 216 x 76	22.5 mm	Type 304	14	9	10.00 x 7.62 254 x 194	10.50 x 8.72 267 x 221	2.56 65	8.25 210	2.11 54	2.61 66
E12PBSS	11.75 x 8.50 x 3.00 298 x 216 x 76	30.5 mm	Type 304	14	12	12.25 x 7.62 311 x 194	12.75 x 8.72 324 x 221	2.56 65	8.25 210	2.11 54	2.61 66
E12PBSS6	11.75 x 8.50 x 3.00 298 x 216 x 76	30.5 mm	Type 316L	14	12	12.25 x 7.62 311 x 194	12.75 x 8.72 324 x 221	2.56 65	8.25 210	2.11 54	2.61 66
E12PBGSS	11.75 x 8.50 x 3.00 298 x 216 x 76	22.5 mm	Type 304	14	12	12.25 x 7.62 311 x 194	12.75 x 8.72 324 x 221	2.56 65	8.25 210	2.11 54	2.61 66

Catalog number ending in 6 is Type 316L stainless steel.





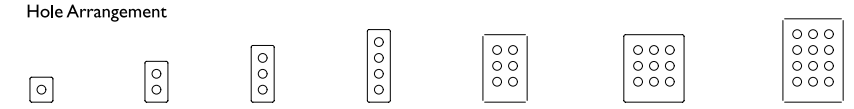
30.5mm 4-WAY



22.5mm 4-WAY

NOTE: Cover bonding provision location varies based on pushbutton pattern.

Hole Arrangement



E1PBSS E1PBSS6 E1PBGSS	E2PBSS E2PBSS6 E2PBGSS	E3PBSS E3PBSS6 E3PBGSS	E4PBSS E4PBSS6 E4PBGSS	E6PBSS E6PBSS6 E6PBGSS	E9PBSS E9PBSS6 E9PBGSS	E12PBSS E12PBSS6 E12PBGSS

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CONCEPT, TYPE 4X

- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Type 316 stainless steel hidden hinges promote clean aesthetic appearance
- Corner formed doors are interchangeable and easily removed by pulling clip-style hinge pins
- Provision on door (except window-door style and when B = 12 in.) for thermoplastic data pocket
- Provision on door (except window-door style and when B = 12 in.) for optional doorstop kit
- Quarter-turn latches furnished with flush slotted insert
- Seamless foam-in-place gasket
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Furnished hardware kit consists of panel-mounting nuts, panel-grounding hardware and sealing washers for wall-mounting holes
- Installation instructions
- Window doors have a clear polycarbonate window

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
VDE IP66
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For indoor or outdoor applications that require corrosion protection from chemicals and water. CONCEPT Enclosures feature streamlined styling with an attractive stroked finish and flush quarter-turn latches for secure closure. Available in solid- and window-door models.

SPECIFICATIONS

- Manufactured from Type 304 or Type 316L stainless steel
- Minimum-width body flange provides maximum body opening
- External formed 90-degree body flange

FINISH

Door and body have smooth #4 brushed finish.

ACCESSORIES

Type 316 Stainless Steel Door Stop Kit, page 1351
CONCEPT Panels, page 1444
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
Handles, page 1442
Lock Inserts, page 1443
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
PANELITE Enclosure Lights, page 1393
HOL-SEALERS Hole Seals, page 1374

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CWS

Standard Product **One-Door**

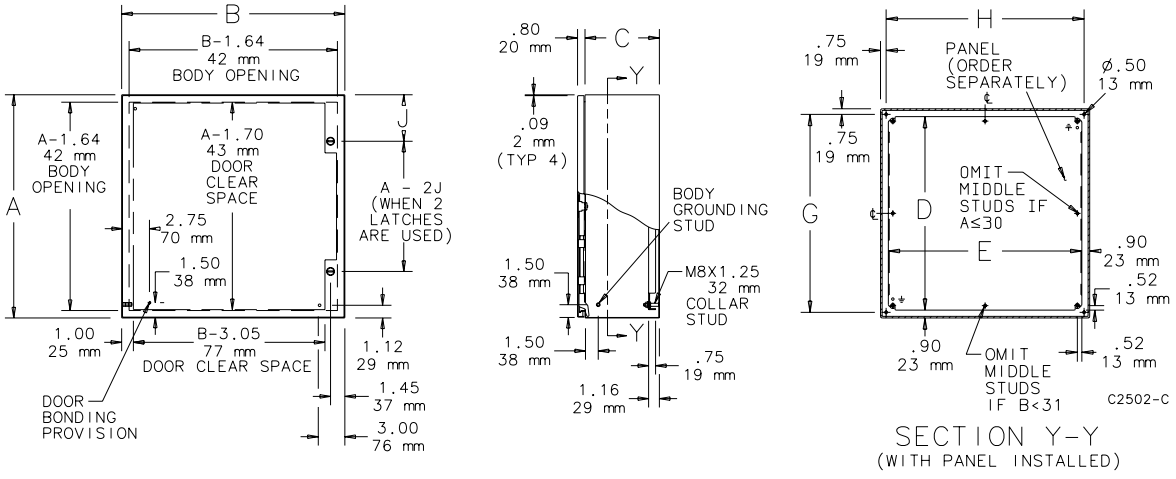
Catalog Number	AxBxC in.	AxBxC mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	Latches Qty.	Style	J (in.)	J (mm)
CSD12126SS	12.00 x 12.00 x 6.00	305 x 305 x 152	16	16	CP1212	CP1212G	10.20 x 10.20	259 x 259	10.50 x 10.50	267 x 267	1	Quarter-turn	6.00	152
CSD12126SS6	12.00 x 12.00 x 6.00	305 x 305 x 152	16	16	CP1212	CP1212G	10.20 x 10.20	259 x 259	10.50 x 10.50	267 x 267	1	Quarter-turn	6.00	152
CSD12246SS	12.00 x 24.00 x 6.00	305 x 610 x 152	16	16	CP2412	CP2412G	22.20 x 10.20	564 x 259	10.50 x 22.50	268 x 572	1	Quarter-turn	6.00	152
CSD12246SS6	12.00 x 24.00 x 6.00	305 x 610 x 152	16	16	CP2412	CP2412G	22.20 x 10.20	564 x 259	10.50 x 22.50	268 x 572	1	Quarter-turn	6.00	152
CSD16126SS	16.00 x 12.00 x 6.00	406 x 305 x 152	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD16126SS6	16.00 x 12.00 x 6.00	406 x 305 x 152	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD16166SS	16.00 x 16.00 x 6.00	406 x 406 x 152	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD16166SS6	16.00 x 16.00 x 6.00	406 x 406 x 152	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD20166SS	20.00 x 16.00 x 6.00	508 x 406 x 152	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD20166SS6	20.00 x 16.00 x 6.00	508 x 406 x 152	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD20206SS	20.00 x 20.00 x 6.00	508 x 508 x 152	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD20206SS6	20.00 x 20.00 x 6.00	508 x 508 x 152	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD24206SS	24.00 x 20.00 x 6.00	610 x 508 x 152	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 X 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD24206SS6	24.00 x 20.00 x 6.00	610 x 508 x 152	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 X 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD30166SS	30.00 x 16.00 x 6.00	762 x 406 x 152	16	16	CP3016	CP3016G	28.20 x 14.20	716 x 361	28.50 x 14.50	724 x 368	2	Quarter-turn	5.00	127
CSD30166SS6	30.00 x 16.00 x 6.00	762 x 406 x 152	16	16	CP3016	CP3016G	28.20 x 14.20	716 x 361	28.50 x 14.50	724 x 368	2	Quarter-turn	5.00	127
CSD16128SS	16.00 x 12.00 x 8.00	406 x 305 x 203	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD16128SS6	16.00 x 12.00 x 8.00	406 x 305 x 203	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD16168SS	16.00 x 16.00 x 8.00	406 x 406 x 203	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD16168SS6	16.00 x 16.00 x 8.00	406 x 406 x 203	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD16208SS	16.00 x 20.00 x 8.00	406 x 508 x 203	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	14.50 x 18.50	368 x 470	1	Quarter-turn	8.00	203
CSD16208SS6	16.00 x 20.00 x 8.00	406 x 508 x 203	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	14.50 x 18.50	368 x 470	1	Quarter-turn	8.00	203
CSD20168SS	20.00 x 16.00 x 8.00	508 x 406 x 203	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD20168SS6	20.00 x 16.00 x 8.00	508 x 406 x 203	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD20208SS	20.00 x 20.00 x 8.00	508 x 508 x 203	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD20208SS6	20.00 x 20.00 x 8.00	508 x 508 x 203	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254

Catalog Number	AxBxC in.	AxBxC mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	Latches Qty.	Style	J (in.)	J (mm)
CSD20248SS	20.00 x 24.00 x 8.00	508 x 610 x 203	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	18.50 x 22.50	470 x 572	1	Quarter-turn	10.00	254
CSD20248SS6	20.00 x 24.00 x 8.00	508 x 610 x 203	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	18.50 x 22.50	470 x 572	1	Quarter-turn	10.00	254
CSD24168SS	24.00 x 16.00 x 8.00	610 x 406 x 203	16	16	CP2416	CP2416G	22.20 x 14.20	564 x 361	22.50 x 14.50	572 x 368	1	Quarter-turn	12.00	305
CSD24168SS6	24.00 x 16.00 x 8.00	610 x 406 x 203	16	16	CP2416	CP2416G	22.20 x 14.20	564 x 361	22.50 x 14.50	572 x 368	1	Quarter-turn	12.00	305
CSD24208SS	24.00 x 20.00 x 8.00	610 x 508 x 203	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD24208SS6	24.00 x 20.00 x 8.00	610 x 508 x 203	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD24248SS	24.00 x 24.00 x 8.00	610 x 610 x 203	14	16	CP2424	CP2424	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD24248SS6	24.00 x 24.00 x 8.00	610 x 610 x 203	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD24308SS	24.00 x 30.00 x 8.00	610 x 762 x 203	14	16	CP3024	CP30240G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD24308SS6	24.00 x 30.00 x 8.00	610 x 762 x 203	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD30208SS	30.00 x 20.00 x 8.00	762 x 508 x 203	14	16	CP3020	CP3020G	28.20 x 18.20	716 x 462	28.50 x 18.50	724 x 470	2	Quarter-turn	5.00	127
CSD30208SS6	30.00 x 20.00 x 8.00	762 x 508 x 203	14	16	CP3020	CP3020G	28.20 x 18.20	716 x 462	28.50 x 18.50	724 x 470	2	Quarter-turn	5.00	127
CSD30248SS	30.00 x 24.00 x 8.00	762 x 610 x 203	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD30248SS6	30.00 x 24.00 x 8.00	762 x 610 x 203	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD30308SS	30.00 x 30.00 x 8.00	762 x 762 x 203	14	16	CP3030	CP3030G	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD30308SS6	30.00 x 30.00 x 8.00	762 x 762 x 203	14	16	CP3030	CP3030G	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD36248SS	36.00 x 24.00 x 8.00	914 x 610 x 203	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD36248SS6	36.00 x 24.00 x 8.00	914 x 610 x 203	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD36308SS	36.00 x 30.00 x 8.00	914 x 762 x 203	14	16	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD36308SS6	36.00 x 30.00 x 8.00	914 x 762 x 203	14	16	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD161210SS	16.00 x 12.00 x 10.00	406 x 305 x 254	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD161210SS6	16.00 x 12.00 x 10.00	406 x 305 x 254	16	16	CP1612	CP1612G	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	1	Quarter-turn	8.00	203
CSD161610SS	16.00 x 16.00 x 10.00	406 x 406 x 254	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD161610SS6	16.00 x 16.00 x 10.00	406 x 406 x 254	16	16	CP1616	CP1616G	14.20 x 14.20	361 x 361	14.50 x 14.50	368 x 368	1	Quarter-turn	8.00	203
CSD162010SS	16.00 x 20.00 x 10.00	406 x 508 x 254	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	14.50 x 18.50	368 x 470	1	Quarter-turn	8.00	203
CSD162010SS6	16.00 x 20.00 x 10.00	406 x 508 x 254	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	14.50 x 18.50	368 x 470	1	Quarter-turn	8.00	203
CSD201610SS	20.00 x 16.00 x 10.00	508 x 406 x 254	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD201610SS6	20.00 x 16.00 x 10.00	508 x 406 x 254	16	16	CP2016	CP2016G	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	1	Quarter-turn	10.00	254
CSD202010SS	20.00 x 20.00 x 10.00	508 x 508 x 254	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD202010SS6	20.00 x 20.00 x 10.00	508 x 508 x 254	16	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD202410SS	20.00 x 24.00 x 10.00	508 x 610 x 254	16	16	CP2420	CP2420G	22.20 x 18.20	464 x 462	18.50 x 22.50	470 x 572	1	Quarter-turn	10.00	254
CSD202410SS6	20.00 x 24.00 x 10.00	508 x 610 x 254	16	16	CP2420	CP2420G	22.20 x 18.20	464 x 462	18.50 x 22.50	470 x 572	1	Quarter-turn	10.00	254
CSD241610SS	24.00 x 16.00 x 10.00	610 x 406 x 254	16	16	CP2416	CP2416G	22.20 x 14.20	564 x 361	22.50 x 14.50	572 x 368	1	Quarter-turn	12.00	305
CSD241610SS6	24.00 x 16.00 x 10.00	610 x 406 x 254	16	16	CP2416	CP2416G	22.20 x 14.20	564 x 361	22.50 x 14.50	572 x 368	1	Quarter-turn	12.00	305
CSD242010SS	24.00 x 20.00 x 10.00	610 x 508 x 254	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD242010SS6	24.00 x 20.00 x 10.00	610 x 508 x 254	16	16	CP2420	CP2420G	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	1	Quarter-turn	12.00	305
CSD242410SS	24.00 x 24.00 x 10.00	610 x 610 x 254	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD242410SS6	24.00 x 24.00 x 10.00	610 x 610 x 254	14	16	CP2424	CP2424	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD243010SS	24.00 x 30.00 x 10.00	610 x 762 x 254	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	22.50 x 28.50	572 x 724	2	Quarter-turn	5.00	127
CSD243010SS6	24.00 x 30.00 x 10.00	610 x 762 x 254	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	22.50 x 28.50	572 x 724	2	Quarter-turn	5.00	127
CSD302010SS	30.00 x 20.00 x 10.00	762 x 508 x 254	14	16	CP3020	CP3020G	28.20 x 18.20	716 x 462	28.50 x 18.50	724 x 470	2	Quarter-turn	5.00	127
CSD302010SS6	30.00 x 20.00 x 10.00	762 x 508 x 254	14	16	CP3020	CP3020G	28.20 x 18.20	716 x 462	28.50 x 18.50	724 x 470	2	Quarter-turn	5.00	127
CSD302410SS	30.00 x 24.00 x 10.00	762 x 610 x 254	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD302410SS6	30.00 x 24.00 x 10.00	762 x 610 x 254	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD303010SS	30.00 x 30.00 x 10.00	762 x 762 x 254	14	16	CP3030	CP3030G	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD303010SS6	30.00 x 30.00 x 10.00	762 x 762 x 254	14	16	CP3030	CP3030G	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD362410SS	36.00 x 24.00 x 10.00	914 x 610 x 254	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD362410SS6	36.00 x 24.00 x 10.00	914 x 610 x 254	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD363010SS	36.00 x 30.00 x 10.00	914 x 762 x 254	14	16	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD363010SS6	36.00 x 30.00 x 10.00	914 x 762 x 254	14	16	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD422410SS	42.00 x 24.00 x 10.00	1067 x 610 x 254	14	14	CP2442	CP2442G	22.20 x 40.20	564 x 1021	40.50 x 22.50	1029 x 572	1	3-point	21.00	533
CSD422410SS6	42.00 x 24.00 x 10.00	1067 x 610 x 254	14	14	CP2442	CP2442G	22.20 x 40.20	564 x 1021	40.50 x 22.50	1029 x 572	1	3-point	21.00	533
CSD423010SS	42.00 x 30.00 x 10.00	1067 x 762 x 254	14	14	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 28.50	1029 x 724	1	3-point	21.00	533
CSD423010SS6	42.00 x 30.00 x 10.00	1067 x 762 x 254	14	14	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 28.50	1029 x 724	1	3-point	21.00	533
CSD482410SS	48.00 x 24.00 x 10.00	1219 x 610 x 254	14	14	CP4824	CP4824G	46.20 x 22.20	1173 x 564	46.50 x 22.50	1181 x 572	1	3-point	24.00	610
CSD482410SS6	48.00 x 24.00 x 10.00	1219 x 610 x 254	14	14	CP4824	CP4824G	46.20 x 22.20	1173 x 564	46.50 x 22.50	1181 x 572	1	3-point	24.00	610
CSD202012SS	20.00 x 20.00 x 12.00	508 x 508 x 305	14	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD202012SS6	20.00 x 20.00 x 12.00	508 x 508 x 305	14	16	CP2020	CP2020G	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	1	Quarter-turn	10.00	254
CSD242412SS	24.00 x 24.00 x 12.00	610 x 610 x 305	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD242412SS6	24.00 x 24.00 x 12.00	610 x 610 x 305	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD302412SS	30.00 x 24.00 x 12.00	762 x 610 x 305	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD302412SS6	30.00 x 24.00 x 12.00	762 x 610 x 305	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD303012SS	30.00 x 30.00 x 12.00	762 x 762 x 305	14	16	CP3030	CP3030	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD303012SS6	30.00 x 30.00 x 12.00	762 x 762 x 305	14	16	CP3030	CP3030G	28.20 x 28.20	716 x 716	28.50 x 28.50	724 x 724	2	Quarter-turn	5.00	127
CSD362412SS	36.00 x 24.00 x 12.00	914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD362412SS6	36.00 x 24.00 x 12.00	914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20	869 x 564	34.50 x 22.50	876 x 572	2	Quarter-turn	5.00	127
CSD363012SS	36.00 x 30.00 x 12.00	914 x 762 x 305	14	14	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD363012SS6	36.00 x 30.00 x 12.00	914 x 762 x 305	14	14	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD242416SS	24.00 x 24.00 x 16.00	610 x 610 x 406	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.05 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD242416SS6	24.00 x 24.00 x 16.00	610 x 610 x 406	14	16	CP2424	CP2424G	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	2	Quarter-turn	5.00	127
CSD302416SS	30.00 x 24.00 x 16.00	762 x 610 x 406	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD302416SS6	30.00 x 24.00 x 16.00	762 x 610 x 406	14	16	CP3024	CP3024G	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	2	Quarter-turn	5.00	127
CSD363016SS	36.00 x 30.00 x 16.00	914 x 762 x 406	14	14	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127
CSD363016SS6	36.00 x 30.00 x 16.00	914 x 762 x 406	14	14	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 28.50	876 x 724	2	Quarter-turn	5.00	127

Catalog numbers ending in 6 are Type 316L stainless steel.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are also available for most sizes.

Optional NEMA style steel and stainless steel panels require conversion kit catalog number CCPM4.



Standard Product **One-Door with Window**

Catalog Number	AxBxC in.	AxBxC mm	Door Ga.	Body Ga.	Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	Window Size M x N (in.)	Window Size M x N (mm)	Latch Qty.	Style	J (in.)	J (mm)
CSD12126WSS	12.00 x 12.00 x 6.00	305 x 305 x 152	16	16	CP1212	10.20 x 10.20	259 x 259	10.50 x 10.50	267 x 267	8.74 x 7.10	222 x 180	1	Quarter-turn	6.00	152
CSD16126WSS	16.00 x 12.00 x 6.00	406 x 305 x 152	16	16	CP1612	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	12.74 x 7.10	324 x 180	1	Quarter-turn	8.00	203
CSD20166WSS	20.00 x 16.00 x 6.00	508 x 406 x 152	16	16	CP2016	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	16.74 x 11.10	425 x 282	1	Quarter-turn	10.00	254
CSD20206WSS	20.00 x 20.00 x 6.00	508 x 508 x 152	16	16	CP2020	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	16.74 x 15.10	425 x 384	1	Quarter-turn	10.00	254
CSD20168WSS	20.00 x 16.00 x 8.00	508 x 406 x 203	16	16	CP2016	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	16.74 x 11.10	425 x 282	1	Quarter-turn	10.00	254
CSD20208WSS	20.00 x 20.00 x 8.00	508 x 508 x 203	16	16	CP2020	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	16.74 x 15.10	425 x 384	1	Quarter-turn	10.00	254
CSD24208WSS	24.00 x 20.00 x 8.00	610 x 508 x 203	16	16	CP2420	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	20.74 x 15.10	527 x 384	1	Quarter-turn	12.00	305
CSD24248WSS	24.00 x 24.00 x 8.00	610 x 610 x 203	14	16	CP2424	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	20.74 x 17.68	527 x 449	2	Quarter-turn	5.00	127
CSD30248WSS	30.00 x 24.00 x 8.00	762 x 610 x 203	14	16	CP3024	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	26.74 x 17.68	679 x 449	2	Quarter-turn	5.00	127
CSD161210WSS	16.00 x 12.00 x 10.00	406 x 305 x 254	16	16	CP1612	14.20 x 10.20	361 x 259	14.50 x 10.50	368 x 267	12.74 x 7.10	324 x 180	1	Quarter-turn	8.00	203
CSD201610WSS	20.00 x 16.00 x 10.00	508 x 406 x 254	16	16	CP2016	18.20 x 14.20	462 x 361	18.50 x 14.50	470 x 368	16.74 x 11.10	425 x 282	1	Quarter-turn	10.00	254
CSD202010WSS	20.00 x 20.00 x 10.00	508 x 508 x 254	16	16	CP2020	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	16.74 x 15.10	425 x 384	1	Quarter-turn	10.00	254
CSD242010WSS	24.00 x 20.00 x 10.00	610 x 508 x 254	16	16	CP2420	22.20 x 18.20	564 x 462	22.50 x 18.50	572 x 470	20.74 x 15.10	527 x 384	1	Quarter-turn	12.00	305
CSD242410WSS	24.00 x 24.00 x 10.00	610 x 610 x 254	14	16	CP2424	22.20 x 22.20	564 x 564	22.50 x 22.50	572 x 572	20.74 x 17.68	527 x 449	2	Quarter-turn	5.00	127
CSD302410WSS	30.00 x 24.00 x 10.00	762 x 610 x 254	14	16	CP3024	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	26.74 x 17.68	679 x 449	2	Quarter-turn	5.00	127
CSD202012WSS	20.00 x 20.00 x 12.00	508 x 508 x 305	14	16	CP2020	18.20 x 18.20	462 x 462	18.50 x 18.50	470 x 470	16.74 x 15.10	425 x 384	1	Quarter-turn	10.00	254
CSD302412WSS	30.00 x 24.00 x 12.00	762 x 610 x 305	14	16	CP3024	28.20 x 22.20	716 x 564	28.50 x 22.50	724 x 572	26.74 x 17.68	679 x 449	2	Quarter-turn	5.00	127

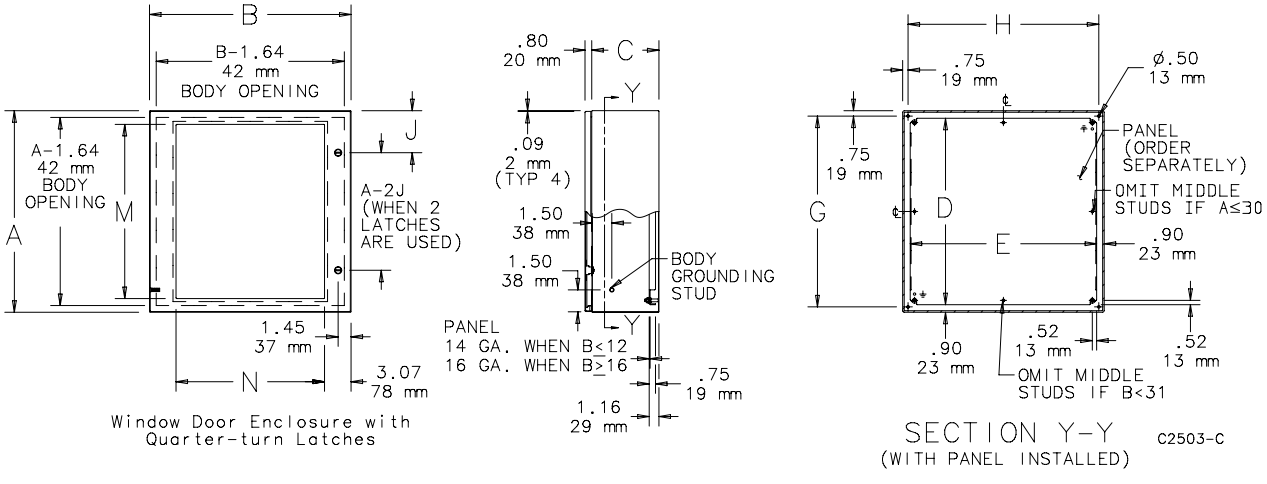
Purchase panels separately.

Optional NEMA style steel and stainless steel panels require conversion kit catalog number CCPM4.

Material is stainless steel Type 304.

For Conductive Panels, add a "G" to the panel catalog number.

CONCEPT Single-Door Wall-Mounted Enclosures with Windows



Notes

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CONCEPT WITH ADDITIONAL QUARTER-TURN LATCHES, TYPE 4X

SPECIFICATIONS

- Manufactured from 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth
- Minimum-width body flange provides maximum body opening
- Corner formed doors
- External formed 90-degree body flange
- Stainless steel quarter-turn latches with flush slotted insert provided on three sides of enclosure door
- Integral door alignment device to properly align door and gasket to body offset
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Stainless steel hidden hinges
- Doors are interchangeable and easily removed by pulling clip-style hinge pins
- Provision on door for thermoplastic data pocket
- Provision on door for optional doorstop kit
- Seamless foam-in-place gasket
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Furnished hardware kit consists of panel mounting nuts, panel grounding hardware and sealing washers for wall-mounting holes
- Installation instructions

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File Number E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For indoor or outdoor applications that require corrosion protection from chemicals and water, CONCEPT enclosures house larger controls and feature streamlined styling with an attractive stroked finish, flush quarter-turn latches and an integral door ramp that ensures the door gasket sealing surface aligns with the enclosure body for secure closure.

FINISH

Door and body have smooth #4 brushed finish.

ACCESSORIES

Type 316 Stainless Steel Door Stop Kit, page 1351
CONCEPT Panels, page 1444
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
Handles, page 1442
Lock Inserts, page 1443
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
PANELITE Enclosure Lights, page 1393
HOL-SEALERS Hole Seals, page 1374

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CWS

Standard Product

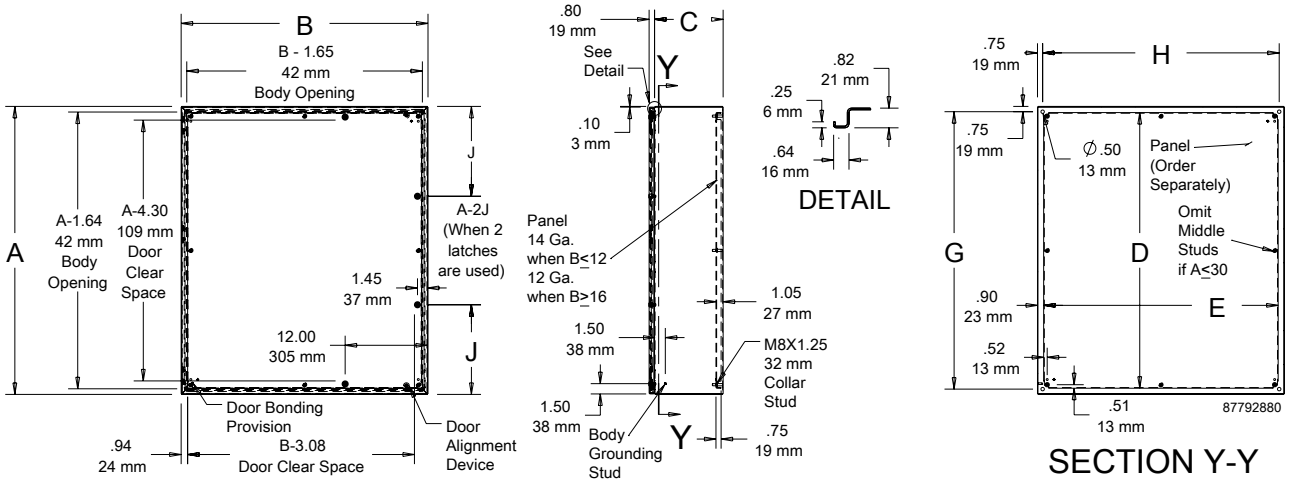
Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	Style	J in./mm
CSD30368SSR	30.00 x 36.00 x 8.00 762 x 914 x 203	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	28.50 x 34.50 724 x 876	4	Quarter-turn	10.00 254
CSD30368SS6R	30.00 x 36.00 x 8.00 762 x 914 x 203	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	28.50 x 34.50 724 x 876	4	Quarter-turn	10.00 254
CSD36368SSR	36.00 x 36.00 x 8.00 914 x 914 x 203	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD36368SS6R	36.00 x 36.00 x 8.00 914 x 914 x 203	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD363610SSR	36.00 x 36.00 x 10.00 914 x 914 x 254	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD363610SS6R	36.00 x 36.00 x 10.00 914 x 914 x 254	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD423610SSR	42.00 x 36.00 x 10.00 1067 x 914 x 254	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD423610SS6R	42.00 x 36.00 x 10.00 1067 x 914 x 254	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD483610SSR	48.00 x 36.00 x 10.00 1219 x 914 x 254	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD483610SS6R	48.00 x 36.00 x 10.00 1219 x 914 x 254	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD603610SSR	60.00 x 36.00 x 10.00 1524 x 914 x 254	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432

Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	Style	J in./mm
CSD603610SS6R	60.00 x 36.00 x 10.00 1524 x 914 x 254	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD363612SSR	36.00 x 36.00 x 12.00 914 x 914 x 305	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD363612SS6R	36.00 x 36.00 x 12.00 914 x 914 x 305	14	14	CP3636	CP3636G	34.20 x 34.20 869 x 869	34.50 x 34.50 876 x 876	4	Quarter-turn	10.00 254
CSD423612SSR	42.00 x 36.00 x 12.00 1067 x 914 x 305	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD423612SS6R	42.00 x 36.00 x 12.00 1067 x 914 x 305	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD483612SSR	48.00 x 36.00 x 12.00 1219 x 914 x 305	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD483612SS6R	48.00 x 36.00 x 12.00 1219 x 914 x 305	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD603612SSR	60.00 x 36.00 x 12.00 1524 x 914 x 305	14	14	CP6036	CP6036G	58.20 x 34.20 869 x 462	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD603612SS6R	60.00 x 36.00 x 12.00 1524 x 914 x 305	14	14	CP6036	CP6036G	58.20 x 34.20 869 x 462	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD723612SSR	72.00 x 36.00 x 12.00 1829 x 914 x 305	14	14	CP7236	—	70.20 x 34.20 1783 x 462	70.50 x 34.50 1791 x 876	4	Quarter-turn	23.00 584
CSD423616SSR	42.00 x 36.00 x 16.00 1067 x 914 x 406	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.5 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD423616SS6R	42.00 x 36.00 x 16.00 1067 x 914 x 406	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.5 x 34.50 1029 x 876	4	Quarter-turn	13.00 330
CSD483616SSR	48.00 x 36.00 x 16.00 1219 x 914 x 406	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.5 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD483616SS6R	48.00 x 36.00 x 16.00 1219 x 914 x 406	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.5 x 34.50 1181 x 876	4	Quarter-turn	14.00 356
CSD603616SSR	60.00 x 36.00 x 16.00 1524 x 914 x 406	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD603616SS6R	60.00 x 36.00 x 16.00 1524 x 914 x 406	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD723016SSR	72.00 x 30.00 x 16.00 1829 x 762 x 406	14	14	CP7230	CP7230G	70.20 x 28.20 1783 x 716	70.50 x 28.50 1791 x 724	4	Quarter-turn	23.00 584
CSD723016SS6R	72.00 x 30.00 x 16.00 1829 x 762 x 406	14	14	CP7230	CP7230G	70.20 x 28.20 1783 x 716	70.50 x 28.50 1791 x 724	4	Quarter-turn	23.00 584
CSD723616SSR	72.00 x 36.00 x 16.00 1829 x 914 x 406	14	14	CP7236	—	70.20 x 34.20 1783 x 869	70.50 x 34.50 1791 x 876	4	Quarter-turn	23.00 584
CSD603624SSR	60.00 x 36.00 x 24.00 1524 x 914 x 610	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432
CSD603624SS6R	60.00 x 36.00 x 24.00 1524 x 914 x 610	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 34.50 1486 x 876	4	Quarter-turn	17.00 432

Purchase panels separately.

Optional NEMA style steel and stainless steel panels require conversion kit catalog number CCPM-4.

Catalog numbers ending in 6R are Type 316L stainless steel.



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CONCEPT SLOPED TOP, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
VDE IP66
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For indoor or outdoor applications that require a sloped top and corrosion protection from chemicals and water. CONCEPT Enclosures feature streamlined styling with an attractive stroked finish and flush, stainless steel quarter-turn latches for secure closure.

SPECIFICATIONS

- Manufactured from 16 and 14 gauge Type 304 stainless steel
- 20 degree sloped top prevents pooling of liquids and accumulation of other debris
- Minimum-width body flange provides maximum body opening
- External formed 90-degree body flange
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Type 304 stainless steel hidden hinges promote clean aesthetic appearance (two hinges on models under 36 in. in height; three hinges for models 36 in. and taller)
- Corner-formed doors are interchangeable and easily removed by pulling clip-style hinge pins
- Provision on door for thermoplastic data pocket
- Provision on door for optional door stop kit
- Seams continuously welded and ground smooth
- Stainless steel quarter-turn latches furnished with flush slotted insert
- Seamless foam-in-place gasket
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Furnished hardware kit consists of panel-mounting nuts, panel-grounding hardware and sealing washers for wall-mounting holes
- Installation instructions

FINISH

Door and body have smooth, #4 brushed finish.

ACCESSORIES

Type 316 Stainless Steel Door Stop Kit, page 1351
CONCEPT Panels, page 1444
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
Handles, page 1442
Lock Inserts, page 1443
HF Side-Mount Filter Fans, page 1168

MODIFICATION AND CUSTOMIZATION

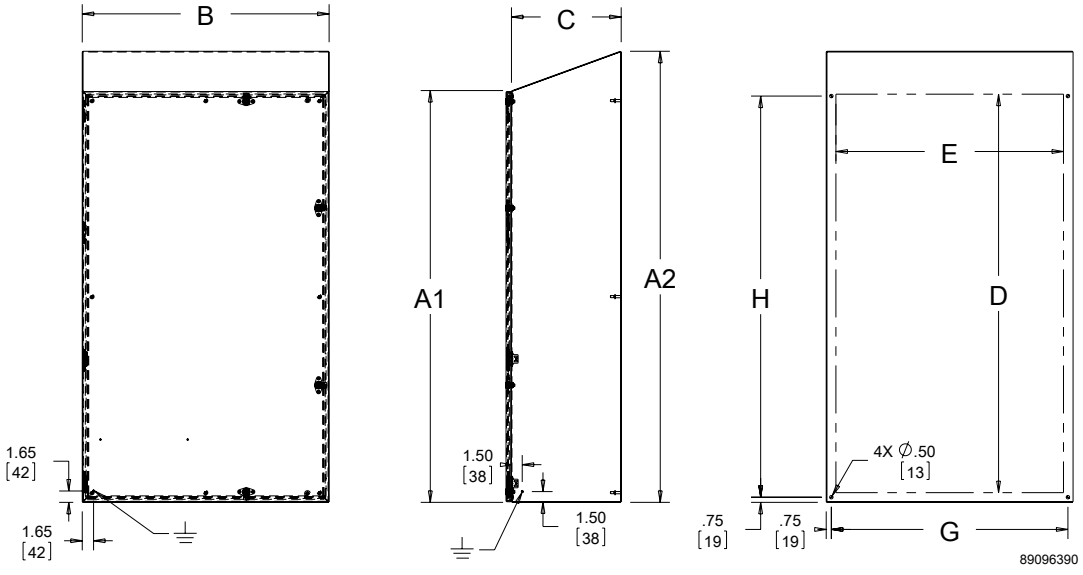
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CWS2

Standard Product

Catalog Number	AxBxC in./mm	A2 in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting H x G in./mm	Latch Qty.
CSD16128SSST	16.00 x 12.00 x 8.00 406 x 305 x 203	18.88 480	16	16	CP162	CP1612G	14.20x10.20 361x259	14.50x10.50 368x267	1
CSD16168SSST	16.00 x 16.00 x 8.00 406 x 406 x 203	18.88 480	16	16	CP1616	CP1616G	14.20x14.20 361x361	14.50x14.50 368x368	1
CSD20168SSST	20.00 x 16.00 x 8.00 508 x 406 x 203	22.88 582	16	16	CP2016	CP2016G	18.20x14.20 462x361	18.50x14.50 470x368	1
CSD20208SSST	20.00 x 20.00 x 8.00 508 x 508 x 203	22.88 582	16	16	CP2020	CP2020G	18.20x18.20 462x462	18.50x18.50 470x470	1
CSD202012SSST	20.00 x 20.00 x 12.00 508 x 508 x 305	24.34 619	14	16	CP2020	CP2020G	18.20x18.20 462x462	18.50x18.50 470x470	1
CSD24208SSST	24.00 x 20.00 x 8.00 610 x 508 x 203	26.88 683	16	16	CP2420	CP2420G	22.20x18.20 564x462	22.50x18.50 572x470	1
CSD24248SSST	24.00 x 24.00 x 8.00 610 x 610 x 203	26.88 683	14	16	CP2424	CP2424G	22.20x22.20 254x254	22.50x22.50 572x572	2
CSD242412SSST	24.00 x 24.00 x 12.00 610 x 610 x 305	28.34 720	14	16	CP2424	CP2424G	22.20x22.20 254x254	22.50x22.50 572x572	2
CSD30248SSST	30.00 x 24.00 x 8.00 762 x 610 x 203	32.88 836	14	16	CP3024	CP3024G	28.20x22.20 716x564	28.50x22.50 724x572	2
CSD302412SSST	30.00 x 24.00 x 12.00 762 x 610 x 305	34.34 873	14	16	CP3024	CP3024G	28.20x22.20 716x564	28.50x22.50 724x572	2
CSD30308SSST	30.00 x 30.00 x 8.00 762 x 762 x 203	32.88 988	14	16	CP3030	CP3030G	28.20x28.20 716x716	28.50x28.50 724x724	2
CSD36248SSST	36.00 x 24.00 x 8.00 914 x 610 x 203	38.88 988	14	16	CP3624	CP3624G	34.20x22.20 869x564	34.50x22.50 876x572	2
CSD36308SSST	36.00 x 30.00 x 8.00 914 x 762 x 203	38.88 988	14	14	CP3630	CP3630G	34.20x28.20 869x716	34.500x28.50 876x724	2
CSD363012SSST	36.00 x 30.00 x 12.00 914 x 762 x 305	40.33 1025	14	14	CP3630	CP3630G	34.20x28.20 869x716	34.50x28.50 876x724	4
CSD363612SSST	36.00 x 36.00 x 12.00 914 x 914 x 305	40.33 1025	14	14	CP3636	CP3636G	34.20x34.20 869x869	34.50x34.50 876x876	4
CSD483616SSST	48.00 x 36.00 x 16.00 1219 x 914 x 406	53.78 1637	14	14	CP4836	CP4836G	46.20x34.20 1173x869	34.50x46.50 876x1181	4
CSD603616SSST	60.00 x 36.00 x 16.00 1524 x 914 x 406	65.78 1671	14	14	CP6036	CP6036G	58.20x34.20 1477x869	34.50x58.50 876x1486	4

Purchase panels separately.



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CONCEPT EMC, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
VDE IP66
IEC 60529, IP66

APPLICATION

Use stylish CONCEPT EMC Enclosures with their convenient quarter-turn latches in corrosive indoor or outdoor applications to contain stray electromagnetic interference (EMI) signals produced by internal components and to shield those components from external EMI/RFI interference.

SPECIFICATIONS

- Manufactured from 18, 16 and 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Minimum-width body flange provides maximum body opening
- External formed 90-degree body flange
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Stainless steel hidden hinges
- Easy-to-remove clip-style hinge pins
- Removable corner formed door
- Seamless foam-in-place gasket adjacent to spring finger EMC gasket
- Quarter-turn latches with flush slotted insert
- Self-grounding latch system with double seal
- Integral body grounding stud
- Furnished hardware kit includes panel mounting nuts, grounding hardware and sealing washers for wall-mounting holes
- Installation instructions

FINISH

Cover and body have smooth brushed #4 finish.

ACCESSORIES

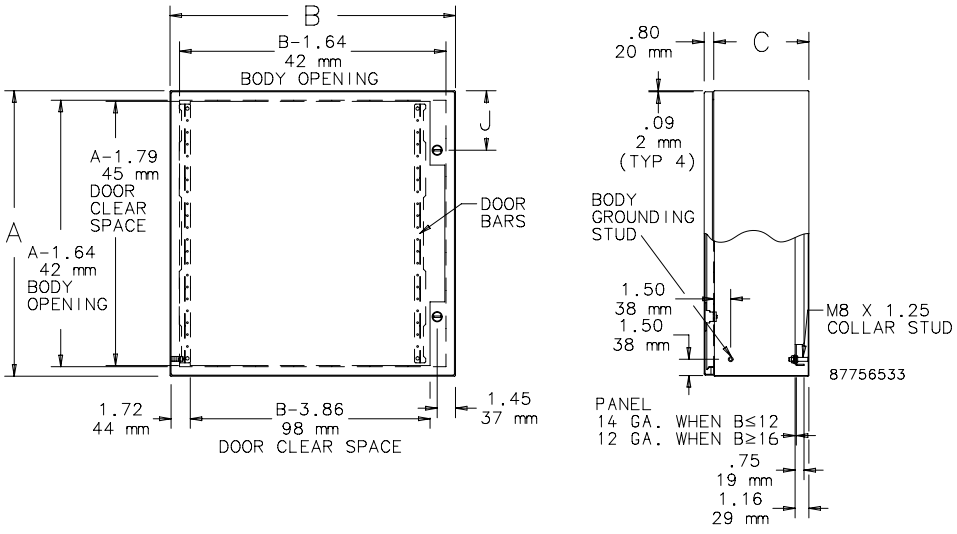
Industrial Corrosion Inhibitors, page 1378
CONCEPT Panels, page 1444
Handles, page 1442
Lock Inserts, page 1443

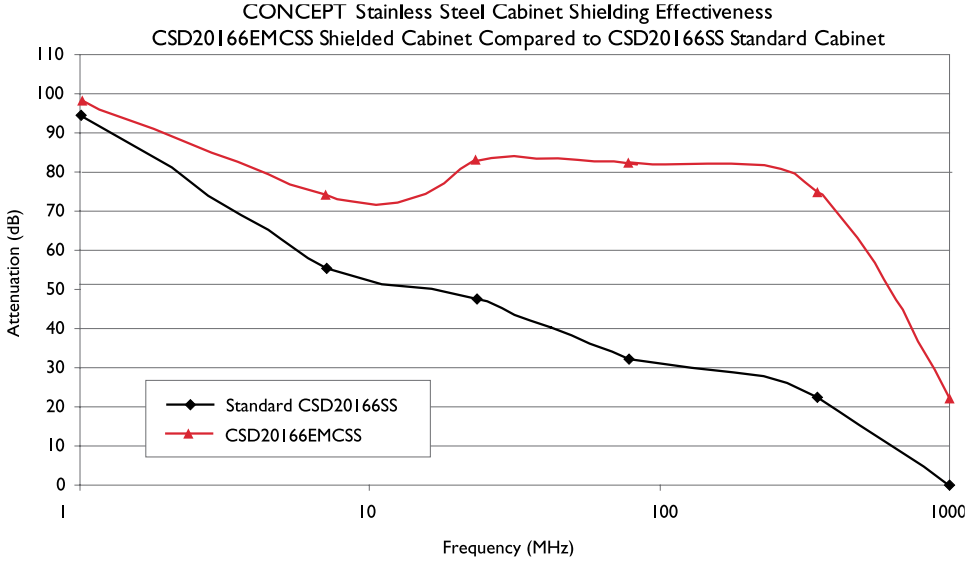
BULLETIN: CWSEM

Standard Product

Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	J in./mm
CSD12126EMCSS	12.00 x 12.00 x 6.00 305 x 305 x 152	16	18	CP1212	CP1212G	10.20 x 10.20 259 x 259	10.50 x 10.50 267 x 267	1	6.00 152
CSD16126EMCSS	16.00 x 12.00 x 6.00 406 x 305 x 152	16	18	CP1612	CP1612G	14.20 x 10.20 361 x 259	14.50 x 10.50 368 x 267	1	8.00 203
CSD16166EMCSS	16.00 x 16.00 x 6.00 406 x 406 x 152	16	18	CP1616	CP1616G	14.20 x 14.20 361 x 361	14.50 x 14.50 368 x 368	1	8.00 203
CSD20166EMCSS	20.00 x 16.00 x 6.00 508 x 406 x 152	16	18	CP2016	CP2016G	18.20 x 14.50 462 x 361	18.50 x 14.50 470 x 368	1	10.00 254
CSD16208EMCSS	16.00 x 20.00 x 8.00 406 x 508 x 203	16	18	CP2016	CP2016G	18.20 x 14.20 462 x 361	14.50 x 18.50 368 x 470	1	8.00 203
CSD24208EMCSS	24.00 x 20.00 x 8.00 610 x 508 x 203	16	18	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 18.50 572 x 470	1	12.00 305
CSD24248EMCSS	24.00 x 24.00 x 8.00 610 x 610 x 203	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	5.00 127
CSD30248EMCSS	30.00 x 24.00 x 8.00 762 x 610 x 203	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 22.50 724 x 572	2	5.00 127
CSD36308EMCSS	36.00 x 30.00 x 8.00 914 x 762 x 203	14	16	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 28.50 876 x 724	2	5.00 127
CSD242412EMCSS	24.00 x 24.00 x 12.00 610 x 610 x 305	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 22.50 572 x 572	2	5.00 127
CSD362412EMCSS	36.00 x 24.00 x 12.00 914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	5.00 127

Purchase panels separately.


B
B-1.64
42 mm
BODY OPENING
J
A-1.79
45 mm
DOOR
CLEAR
SPACE
A
A-1.64
42 mm
BODY
OPENING
DOOR
BARS
1.72
44 mm
B-3.86
98 mm
DOOR CLEAR SPACE
1.45
37 mm
.80
20 mm
C
.09
2 mm
(TYP 4)
BODY
GROUNDING
STUD
1.50
38 mm
1.50
38 mm
M8 X 1.25
COLLAR STUD
87756533
PANEL
14 GA. WHEN B≤12
12 GA. WHEN B≥16
.75
19 mm
1.16
29 mm


CONCEPT Stainless Steel Cabinet Shielding Effectiveness
CSD20166EMCSS Shielded Cabinet Compared to CSD20166SS Standard Cabinet
Attenuation (dB)
110
100
90
80
70
60
50
40
30
20
10
0
1
10
100
1000
Frequency (MHz)
Standard CSD20166SS
CSD20166EMCSS

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CONTINUOUS HINGE WITH 3-POINT LATCH, TYPE 4X

APPLICATION

These enclosures feature Hoffman's exclusive POWERGLIDE Handle with 3-point latching, ideal for indoor or outdoor applications that require corrosion protection, convenient access, and padlocking security.

SPECIFICATIONS

- 14 gauge Type 304 or 316L stainless steel bodies and doors
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket
- Rolled lip around three sides of door
- Internal 3-point latch and Type 316L stainless steel padlocking POWERGLIDE Handle
- Remove door by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels
- Exterior hardware on Type 316L stainless steel enclosures matches enclosure material
- Bonding provision on door; grounding stud on body

FINISH

Door, sides, top and bottom have smooth #4 brushed finish. Handle is electropolished.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4SW3

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

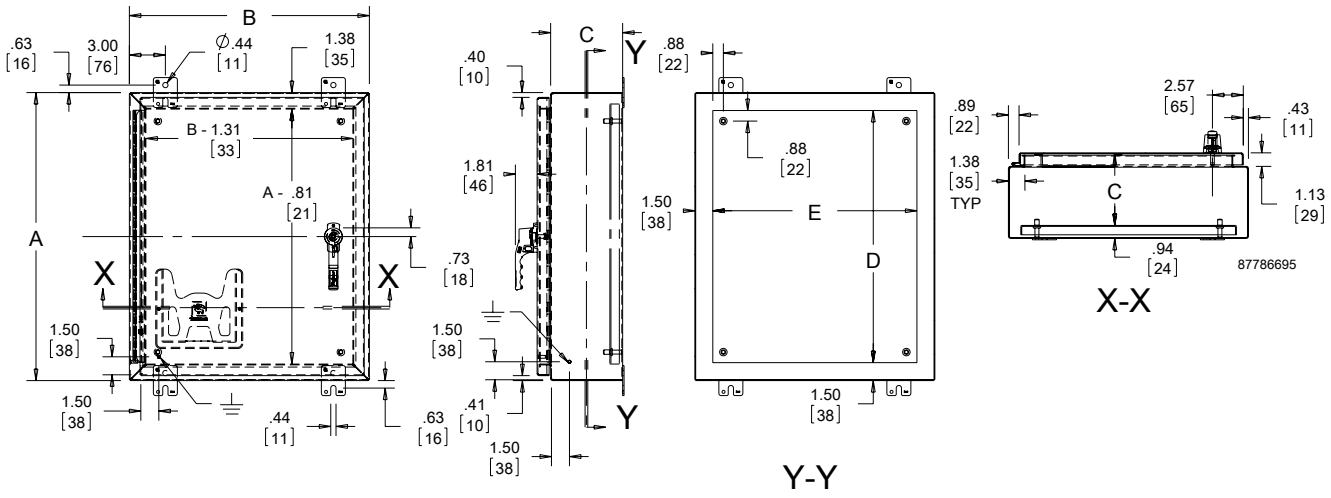
NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

Standard Product

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Panel	Stainless Steel Panel	Panel Size D x E in./mm	Data Pocket
A24H2006SSLP3PT	24.00 x 20.00 x 6.00 610 x 508 x 152	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2006SS6LP3PT	24.00 x 20.00 x 6.00 610 x 508 x 152	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2008SSLP3PT	24.00 x 20.00 x 8.00 610 x 508 x 203	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2008SS6LP3PT	24.00 x 20.00 x 8.00 610 x 508 x 203	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2408SSLP3PT	24.00 x 24.00 x 8.00 610 x 610 x 203	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A24H2408SS6LP3PT	24.00 x 24.00 x 8.00 610 x 610 x 203	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A30H2408SSLP3PT	30.00 x 24.00 x 8.00 762 x 610 x 203	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H2408SS6LP3PT	30.00 x 24.00 x 8.00 762 x 610 x 203	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H3008SSLP3PT	30.00 x 30.00 x 8.00 762 x 762 x 203	304	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	Large
A30H3008SS6LP3PT	30.00 x 30.00 x 8.00 762 x 762 x 203	316L	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	Large
A36H2408SSLP3PT	36.00 x 24.00 x 8.00 914 x 610 x 203	304	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	Large
A36H2408SS6LP3PT	36.00 x 24.00 x 8.00 914 x 610 x 203	316L	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	Large
A36H3008SSLP3PT	36.00 x 30.00 x 8.00 914 x 762 x 203	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A36H3008SS6LP3PT	36.00 x 30.00 x 8.00 914 x 762 x 203	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A48H3608SSLP3PT	48.00 x 36.00 x 8.00 1219 x 914 x 203	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3608SS6LP3PT	48.00 x 36.00 x 8.00 1219 x 914 x 203	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A24H2010SSLP3PT	24.00 x 20.00 x 10.00 610 x 508 x 254	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Panel	Stainless Steel Panel	Panel Size D x E in./mm	Data Pocket
A24H2010SS6LP3PT	24.00 x 20.00 x 10.00 610 x 508 x 254	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A36H3010SSLP3PT	36.00 x 30.00 x 10.00 914 x 762 x 254	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A36H3010SS6LP3PT	36.00 x 30.00 x 10.00 914 x 762 x 254	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A42H3010SSLP3PT	42.00 x 30.00 x 10.00 1067 x 762 x 254	304	A42P30	A42P30G	A42P30SS6	39.00 x 27.00 991 x 686	Large
A48H3610SSLP3PT	48.00 x 36.00 x 10.00 1219 x 914 x 254	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3610SS6LP3PT	48.00 x 36.00 x 10.00 1219 x 914 x 254	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A24H2412SSLP3PT	24.00 x 24.00 x 12.00 610 x 610 x 305	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A24H2412SS6LP3PT	24.00 x 24.00 x 12.00 610 x 610 x 305	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A30H2412SSLP3PT	30.00 x 24.00 x 12.00 760 x 610 x 305	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A30H2412SS6LP3PT	30.00 x 24.00 x 12.00 762 x 610 x 305	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A36H3012SSLP3PT	36.00 x 30.00 x 12.00 914 x 762 x 305	304	A36P30	A36P30G	A36P30SS6	33.00 X 27.00 838 x 686	Large
A36H3012SS6LP3PT	36.00 x 30.00 x 12.00 914 x 762 x 305	316L	A36P30	A36P30G	A36P30SS6	33.00 X 27.00 838 x 686	Large
A36H3612SSLP3PT	36.00 x 36.00 x 12.00 914 x 914 x 305	304	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	Large
A36H3612SS6LP3PT	36.00 x 36.00 x 12.00 914 x 914 x 305	316L	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	Large
A42H3612SSLP3PT	42.00 x 36.00 x 12.00 1067 x 914 x 305	304	A42P36	A42P36G	A42P36SS6	39.00 x 33.00 991 x 838	Large
A48H3612SSLP3PT	48.00 x 36.00 x 12.00 1219 x 914 x 305	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3612SS6LP3PT	48.00 x 36.00 x 12.00 1219 x 914 x 305	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A60H3612SSLP3PT	60.00 x 36.00 x 12.00 1524 x 914 x 305	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A60H3612SS6LP3PT	60.00 x 36.00 x 12.00 1524 x 914 x 305	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A48H3616SSLP3PT	48.00 x 36.00 x 16.00 1219 x 914 x 406	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A48H3616SS6LP3PT	48.00 x 36.00 x 16.00 1219 x 914 x 406	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A60H3616SSLP3PT	60.00 x 36.00 x 16.00 1524 x 914 x 406	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A60H3616SS6LP3PT	60.00 x 36.00 x 16.00 1524 x 914 x 406	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.



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CONTINUOUS HINGE WITH CLAMPS, TYPE 4X

APPLICATION

For use in indoor and outdoor corrosive environments that require a water-tight seal, this enclosure's seamless foam-in-place gasket and screw-down clamps provide a secure seal against contaminants.

SPECIFICATIONS

- 14 gauge Type 304 or Type 316L stainless steel bodies and doors
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket
- Rolled lip around three sides of door
- Stainless steel door clamp assembly
- Hasp and staple for padlocking
- Door removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels
- Exterior hardware on Type 316L stainless steel enclosures matches enclosure material
- Bonding provision on door; grounding stud on body

FINISH

Door, sides, top and bottom have smooth #4 brushed finish.

ACCESSORIES

Fast-Operating Clamp Assembly, page 1371
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
PANELITE Enclosure Lights, page 1393
HOL-SEALERS Hole Seals, page 1374
Thermoelectric Coolers Indoor/Outdoor, page 1142

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4S

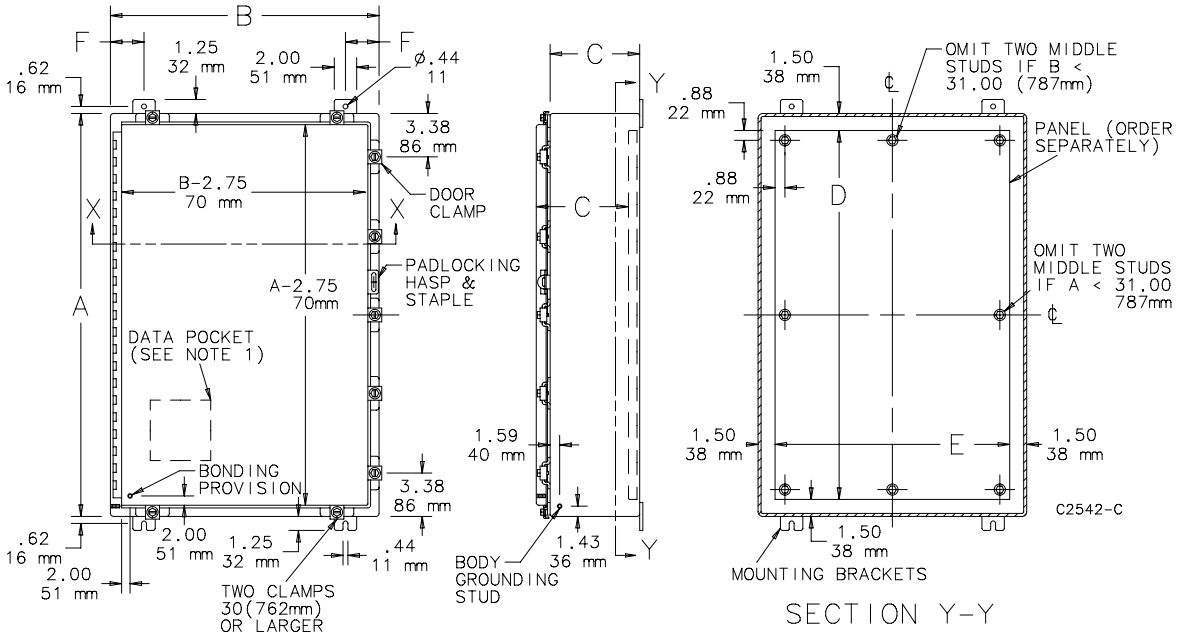
Standard Product

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Steel Panel	Stainless Steel Panel	Panel Size D x E in./mm	F in./mm	Clamps Qty.	Data Pocket
A16H1206SSLP	16.00 x 12.00 x 6.00 406 x 305 x 152	304	A16P12	A16P12G	A16P12SS6	13.00 x 9.00 330 x 229	1.25 32	4	Small
A16H1206SS6LP	16.00 x 12.00 x 6.00 406 x 305 x 152	316L	A16P12	A16P12G	A16P12SS6	13.00 x 9.00 330 x 229	1.25 32	4	Small
A16H1606SSLP	16.00 x 16.00 x 6.00 406 x 406 x 152	304	A16P16	A16P16G	A16P16SS6	13.00 x 13.00 330 x 330	3.00 76	4	Small
A16H1606SS6LP	16.00 x 16.00 x 6.00 406 x 406 x 152	316L	A16P16	A16P16G	A16P16SS6	13.00 x 13.00 330 x 330	3.00 76	4	Small
A16H2006SSLP	16.00 x 20.00 x 6.00 406 x 508 x 152	304	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A16H2006SS6LP	16.00 x 20.00 x 6.00 406 x 508 x 152	316L	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H1606SSLP	20.00 x 16.00 x 6.00 508 x 406 x 152	304	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H1606SS6LP	20.00 x 16.00 x 6.00 508 x 406 x 152	316L	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H2006SSLP	20.00 x 20.00 x 6.00 508 x 508 x 152	304	A20P20	A20P20G	A20P20SS6	17.00 x 17.00 432 x 432	3.00 76	4	Small
A20H2006SS6LP	20.00 x 20.00 x 6.00 508 x 508 x 152	316L	A20P20	A20P20G	A20P20SS6	17.00 x 17.00 432 x 432	3.00 76	4	Small
A24H2006SSLP	24.00 x 20.00 x 6.00 610 x 508 x 152	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A24H2006SS6LP	24.00 x 20.00 x 6.00 610 x 508 x 152	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A24H2406SSLP	24.00 x 24.00 x 6.00 610 x 610 x 152	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small
A24H2406SS6LP	24.00 x 24.00 x 6.00 610 x 610 x 152	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small

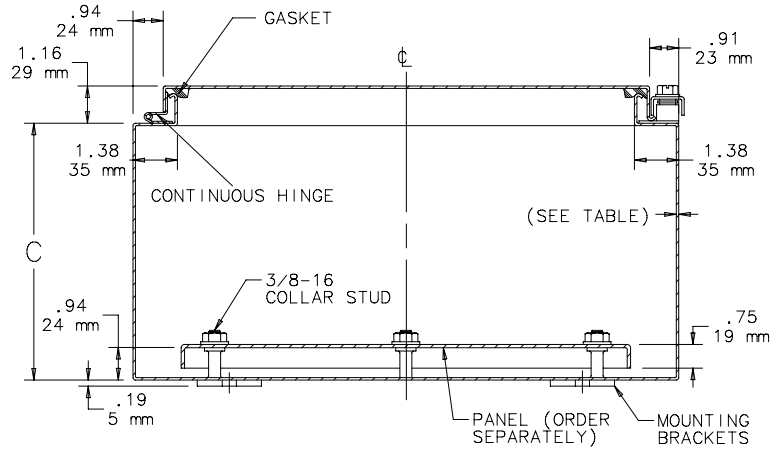
Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Steel Panel	Stainless Steel Panel	Panel Size D x E in./mm	F in./mm	Clamps Qty.	Data Pocket
A16H1208SSLP	16.00 x 12.00 x 8.00 406 x 305 x 203	304	A16P12	A16P12G	A16P12SS6	13.00 x 9.00 330 x 229	1.25 32	4	Small
A16H1208SS6LP	16.00 x 12.00 x 8.00 406 x 305 x 203	316L	A16P12	A16P12G	A16P12SS6	13.00 x 9.00 330 x 229	1.25 32	4	Small
A20H1608SSLP	20.00 x 16.00 x 8.00 508 x 406 x 203	304	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H1608SS6LP	20.00 x 16.00 x 8.00 508 x 406 x 203	316L	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H2008SSLP	20.00 x 20.00 x 8.00 508 x 508 x 203	304	A20P20	A20P20G	A20P20SS6	17.00 x 17.00 432 x 432	3.00 76	4	Small
A20H2008SS6LP	20.00 x 20.00 x 8.00 508 x 508 x 203	316L	A20P20	A20P20G	A20P20SS6	17.00 x 17.00 432 x 432	3.00 76	4	Small
A20H2408SSLP	20.00 x 24.00 x 8.00 508 x 610 x 203	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	4	Small
A20H2408SS6LP	20.00 x 24.00 x 8.00 508 x 610 x 203	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	4	Small
A24H1608SSLP	24.00 x 16.00 x 8.00 610 x 406 x 203	304	A24P16	A24P16G	A24P16SS6	21.00 x 13.00 533 x 330	3.00 76	5	Small
A24H1608SS6LP	24.00 x 16.00 x 8.00 610 x 406 x 203	316L	A24P16	A24P16G	A24P16SS6	21.00 x 13.00 533 x 330	3.00 76	5	Small
A24H2008SSLP	24.00 x 20.00 x 8.00 610 x 508 x 203	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A24H2008SS6LP	24.00 x 20.00 x 8.00 610 x 508 x 203	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A24H2408SSLP	24.00 x 24.00 x 8.00 610 x 610 x 203	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small
A24H2408SS6LP	24.00 x 24.00 x 8.00 610 x 610 x 203	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small
A24H3008SSLP	24.00 x 30.00 x 8.00 610 x 762 x 203	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	7	Small
A24H3008SS6LP	24.00 x 30.00 x 8.00 610 x 762 x 203	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	7	Small
A30H2008SSLP	30.00 x 20.00 x 8.00 762 x 508 x 203	304	A30P20	A30P20G	A30P20SS6	27.00 x 17.00 686 x 432	3.00 76	5	Small
A30H2008SS6LP	30.00 x 20.00 x 8.00 762 x 508 x 203	316L	A30P20	A30P20G	A30P20SS6	27.00 x 17.00 686 x 432	3.00 76	5	Small
A30H2408SSLP	30.00 x 24.00 x 8.00 762 x 610 x 203	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A30H2408SS6LP	30.00 x 24.00 x 8.00 762 x 610 x 203	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A30H3008SSLP	30.00 x 30.00 x 8.00 762 x 762 x 203	304	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	3.00 76	7	Large
A30H3008SS6LP	30.00 x 30.00 x 8.00 762 x 762 x 203	316L	A30P30	A30P30G	A30P30SS6	27.00 x 27.00 686 x 686	3.00 76	7	Large
A36H2408SSLP	36.00 x 24.00 x 8.00 914 x 610 x 203	304	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	3.00 76	5	Large
A36H2408SS6LP	36.00 x 24.00 x 8.00 914 x 610 x 203	316L	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	3.00 76	5	Large
A36H3008SSLP	36.00 x 30.00 x 8.00 914 x 762 x 203	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A36H3008SS6LP	36.00 x 30.00 x 8.00 914 x 762 x 203	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A42H3608SSLP	42.00 x 36.00 x 8.00 1067 x 914 x 203	304	A42P36	A42P36G	A42P36SS6	39.00 x 33.00 991 x 838	3.00 76	8	Large
A42H3608SS6LP	42.00 x 36.00 x 8.00 1067 x 914 x 203	316L	A42P36	A42P36G	A42P36SS6	39.00 x 33.00 991 x 838	3.00 76	8	Large
A48H3608SSLP	48.00 x 36.00 x 8.00 1219 x 914 x 203	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A48H3608SS6LP	48.00 x 36.00 x 8.00 1219 x 914 x 203	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A20H1610SSLP	20.00 x 16.00 x 10.00 508 x 406 x 254	304	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A20H1610SS6LP	20.00 x 16.00 x 10.00 508 x 406 x 254	316L	A20P16	A20P16G	A20P16SS6	17.00 x 13.00 432 x 330	3.00 76	4	Small
A24H2010SSLP	24.00 x 20.00 x 10.00 610 x 508 x 254	304	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A24H2010SS6LP	24.00 x 20.00 x 10.00 610 x 508 x 254	316L	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	3.00 76	5	Small
A30H2410SSLP	30.00 x 24.00 x 10.00 762 x 610 x 254	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A30H2410SS6LP	30.00 x 24.00 x 10.00 762 x 610 x 254	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A36H2410SSLP	36.00 x 24.00 x 10.00 914 x 610 x 254	304	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	3.00 76	5	Large
A36H2410SS6LP	36.00 x 24.00 x 10.00 914 x 610 x 254	316L	A36P24	A36P24G	A36P24SS6	33.00 x 21.00 838 x 533	3.00 76	5	Large
A36H3010SSLP	36.00 x 30.00 x 10.00 914 x 762 x 254	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large

Catalog Number	AxBxC in./mm	Stainless Steel Type	Steel Panel	Conductive Steel Panel	Stainless Steel Panel	Panel Size D x E in./mm	F in./mm	Clamps Qty.	Data Pocket
A36H3010SS6LP	36.00 x 30.00 x 10.00 914 x 762 x 254	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A42H3010SSLP	42.00 x 30.00 x 10.00 1067 x 762 x 254	304	A42P30	A42P30G	A42P30SS6	39.00 x 27.00 991 x 686	3.00 76	8	Large
A42H3010SS6LP	42.00 x 30.00 x 10.00 1067 x 762 x 254	316L	A42P30	A42P30G	A42P30SS6	39.00 x 27.00 991 x 686	3.00 76	8	Large
A48H3610SSLP	48.00 x 36.00 x 10.00 1219 x 914 x 254	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A48H3610SS6LP	48.00 x 36.00 x 10.00 1219 x 914 x 254	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A24H2412SSLP	24.00 x 24.00 x 12.00 610 x 610 x 305	304	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small
A24H2412SS6LP	24.00 x 24.00 x 12.00 610 x 610 x 305	316L	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	3.00 76	5	Small
A30H2412SSLP	30.00 x 24.00 x 12.00 762 x 610 x 305	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A30H2412SS6LP	30.00 x 24.00 x 12.00 762 x 610 x 305	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A36H3012SSLP	36.00 x 30.00 x 12.00 914 x 762 x 305	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A36H3012SS6LP	36.00 x 30.00 x 12.00 914 x 762 x 305	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A36H3612SSLP	36.00 x 36.00 x 12.00 914 x 914 x 305	304	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	3.00 76	7	Large
A36H3612SS6LP	36.00 x 36.00 x 12.00 914 x 914 x 305	316L	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	3.00 76	7	Large
A48H3612SSLP	48.00 x 36.00 x 12.00 1219 x 914 x 305	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A48H3612SS6LP	48.00 x 36.00 x 12.00 1219 x 914 x 305	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A60H3612SSLP	60.00 x 36.00 x 12.00 1524 x 914 x 305	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	3.00 76	9	Large
A60H3612SS6LP	60.00 x 36.00 x 12.00 1524 x 914 x 305	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	3.00 76	9	Large
A30H2416SSLP	30.00 x 24.00 x 16.00 762 x 610 x 406	304	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A30H2416SS6LP	30.00 x 24.00 x 16.00 762 x 610 x 406	316L	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	3.00 76	5	Large
A36H3016SSLP	36.00 x 30.00 x 16.00 914 x 762 x 406	304	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A36H3016SS6LP	36.00 x 30.00 x 16.00 914 x 762 x 406	316L	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	3.00 76	7	Large
A48H3616SSLP	48.00 x 36.00 x 16.00 1219 x 914 x 406	304	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A48H3616SS6LP	48.00 x 36.00 x 16.00 1219 x 914 x 406	316L	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A60H3616SSLP	60.00 x 36.00 x 16.00 1524 x 914 x 406	304	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	3.00 76	9	Large
A60H3616SS6LP	60.00 x 36.00 x 16.00 1524 x 914 x 406	316L	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	3.00 76	9	Large

Purchase panels separately. Optional composite and aluminum panels are available for most sizes.



SECTION Y-Y



SECTION X-X

NOTE:
1. Removable data pocket included (see table for size). Large data pocket 12.00 x 12.00 (305mm x 305mm); small data pocket 6.00 x 6.00 (152mm x 152mm).
2. Maximum spacing between door clamps is 15.00 (382mm)

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CONTINUOUS HINGE WITH CLAMPS, EMC, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Ideal for indoor or outdoor EMC applications to contain larger controls in corrosive environments. Features a stainless steel, woven-mesh encased gasket to keep out contaminants and provide EMI/RFI shielding to internal components.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel bodies and doors
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket adjacent to woven monel EMC mesh gasket
- Rolled lip around three sides of door
- Stainless steel door clamp assemblies
- Hasp and staple for padlocking
- Removable door with continuous hinge
- Data pocket is high impact thermoplastic
- Collar studs provided for mounting optional panels
- Bonding provision on door; grounding stud on body

FINISH

Door, sides, top and bottom have a smooth brushed #4 finish.

ACCESSORIES

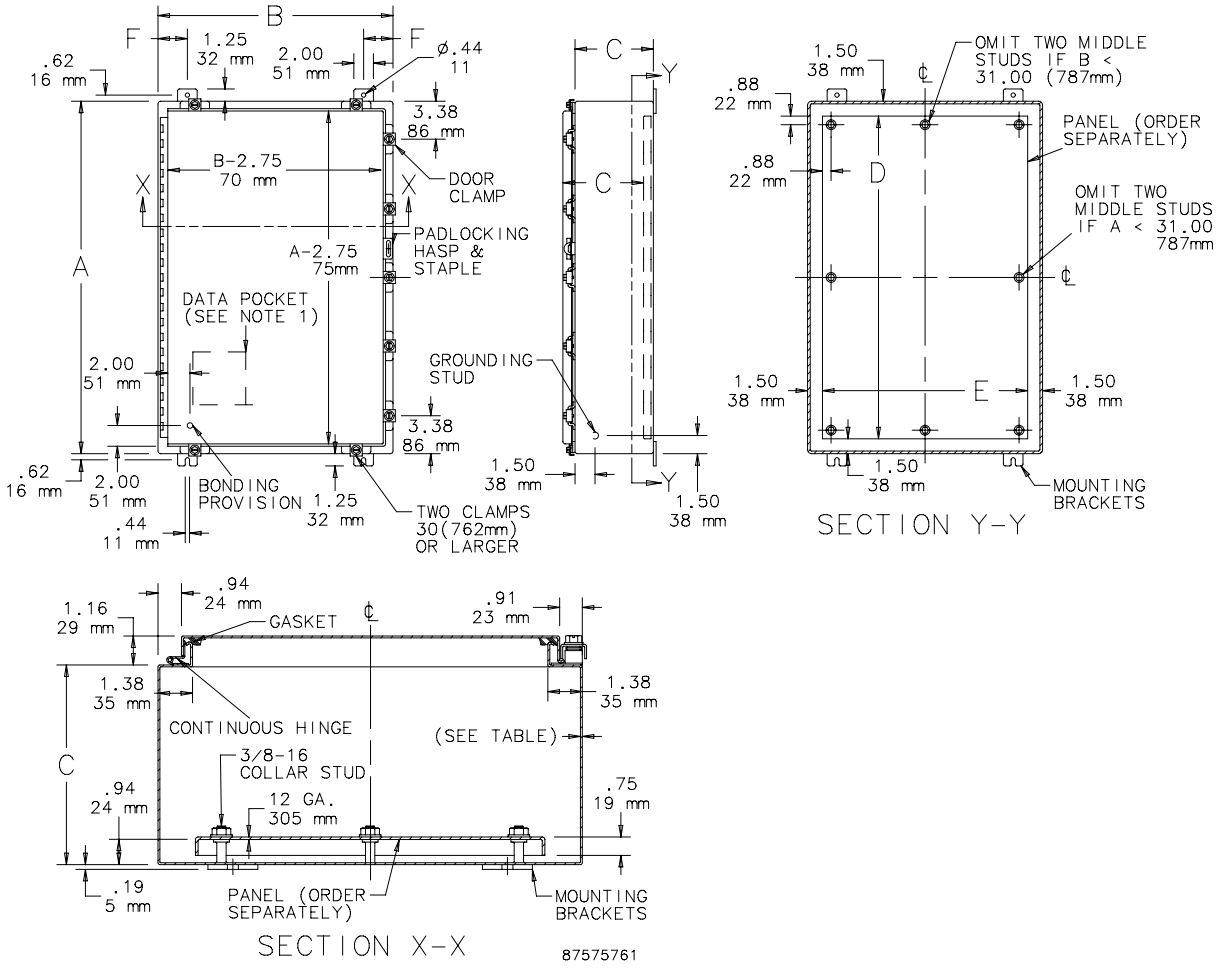
Fast-Operating Clamp Assembly, page 1371
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Rack Mounting Angle Kit - L Style, page 1418
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380

BULLETIN: A4SEM

Standard Product

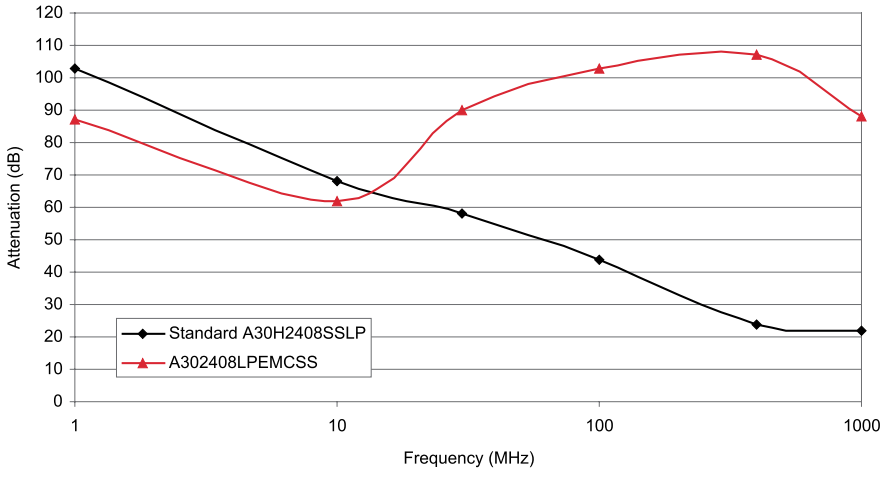
Catalog Number	AxBxC in./mm	Conductive Steel Panel	Panel Size D x E in./mm	F in./mm	Clamps Qty.	Data Pocket
A161206LPEMCSS	16.00 x 12.00 x 6.00 406 x 305 x 152	A16P12G	13.00 x 9.00 330 x 229	1.25 32	4	Small
A201606LPEMCSS	20.00 x 16.00 x 6.00 508 x 406 x 152	A20P16G	17.00 x 13.00 432 x 330	3.00 76	4	Small
A242006LPEMCSS	24.00 x 20.00 x 6.00 610 x 508 x 152	A24P20G	21.00 x 17.00 533 x 432	3.00 76	5	Small
A242408LPEMCSS	24.00 x 24.00 x 8.00 610 x 610 x 203	A24P24G	21.00 x 21.00 533 x 533	3.00 76	5	Small
A302408LPEMCSS	30.00 x 24.00 x 8.00 762 x 610 x 203	A30P24G	27.00 x 21.00 686 x 533	3.00 76	5	Large
A363008LPEMCSS	36.00 x 30.00 x 8.00 914 x 762 x 203	A36P30G	33.00 x 27.00 838 x 686	3.00 76	7	Large
A483608LPEMCSS	48.00 x 36.00 x 8.00 1219 x 914 x 203	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	8	Large
A603612LPEMCSS	60.00 x 36.00 x 12.00 1524 x 914 x 305	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	9	Large

Purchase panels separately. Optional conductive, mild steel, stainless steel, aluminum and composite panels are available for most sizes. See Accessories.



Stainless Steel Type 4X Enclosure Shielding Effectiveness

A302408LPEMCSS Shielded Enclosure Compared to A30H2408SSLP Standard Enclosure



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CONTINUOUS HINGE TWO-DOOR WITH 3-POINT LATCH, TYPE 4X

APPLICATION

These two-door wall-mount enclosures provide industry-leading protection for components in corrosive or wet environments. Enclosures have a removable centerpost for easy panel installation, 3-point latching with Hoffman's exclusive POWERGLIDE Handles, and a seamless foam-in-place gasket for sealing protection from contaminants.

SPECIFICATIONS

- Manufactured from 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Removable centerpost for easy panel installation
- Flange trough collar around all sides of enclosure door openings
- External mounting brackets
- Heavy-duty 3-point latching mechanism operated by Type 316 stainless steel POWERGLIDE padlocking handles
- Easily removable doors by pulling heavy gauge continuous hinge pin
- Data pocket is high-impact thermoplastic
- Seamless foam-in-place gasket
- Collar studs provided for mounting optional panels
- Bonding provisions on doors; grounding studs on body

FINISH

Doors, sides, top and bottom have smooth #4 brushed finish.

ACCESSORIES

Floor Stand Kit, Stainless Steel, page 241
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4SW

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File Number E61997

NEMA Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

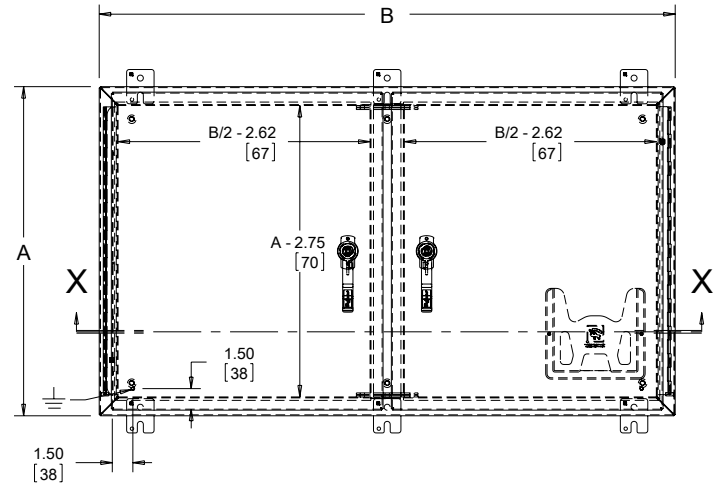
Standard Product

Catalog Number	AxBxC in./mm	Mild Steel Panel	Conductive Panel	Panel Gauge	Panel Size D x E in./mm	Y in./mm
A24H4208WFSSLP3PT	24.00 x 42.00 x 8.00 610 x 1067 x 203	A42P24	A42P24G	12	39.00 x 21.00 991 x 533	1.50 38
A24H4808WFSSLP3PT	24.00 x 48.00 x 8.00 610 x 1219 x 203	A48P24	A48P24G	12	45.00 x 21.00 1143 x 533	1.50 38
A30H4210WFSSLP3PT	30.00 x 42.00 x 10.00 762 x 1067 x 254	A42P30	A42P30G	12	39.00 x 27.00 991 x 686	1.50 38
A30H4810WFSSLP3PT	30.00 x 48.00 x 10.00 762 x 1219 x 254	A48P30	A48P30G	12	45.00 x 27.00 1143 x 686	1.50 38
A30H6010WFSSLP3PT	30.00 x 60.00 x 10.00 762 x 1524 x 254	A60P30	A60P30G	12	57.00 x 27.00 1448 x 686	1.50 38
A36H4212WFSSLP3PT	36.00 x 42.00 x 12.00 914 x 1067 x 305	A42P36	A42P36G	12	39.00 x 33.00 991 x 838	1.50 38
A36H4812WFSSLP3PT	36.00 x 48.00 x 12.00 914 x 1219 x 305	A48P36	A48P36G	12	45.00 x 33.00 1143 x 838	1.50 38
A36H6012WFSSLP3PT	36.00 x 60.00 x 12.00 914 x 1524 x 305	A60P36	A60P36G	12	57.00 x 33.00 1448 x 838	1.50 38
A42H4212WFSSLP3PT	42.00 x 42.00 x 12.00 1067 x 1067 x 305	A42P42	A42P42G	12	39.00 x 39.00 991 x 991	1.50 38
A42H4812WFSSLP3PT	42.00 x 48.00 x 12.00 1067 x 1219 x 305	A48P42	A48P42G	12	45.00 x 39.00 1143 x 991	1.50 38
A42H6012WFSSALP3PT	42.00 x 60.00 x 12.00 1067 x 1524 x 305	A60BFP42	A60BFP42G	10	56.00 x 38.00 1422 x 965	2.00 51
A48H4812WFSSLP3PT	48.00 x 48.00 x 12.00 1219 x 1219 x 305	A48P48	A48P48G	10	44.00 x 44.00 1118 x 1118	2.00 51

Purchase panels separately. Optional stainless steel panels are available for most sizes.

Enclosure backs for A42H4212WFSSLP3PT, A42H4812WFSSLP3PT and A42H6012WFSSALP3PT have internal stiffeners.

A48H4812WFSSLP3PT is 14 gauge with a 12 gauge back.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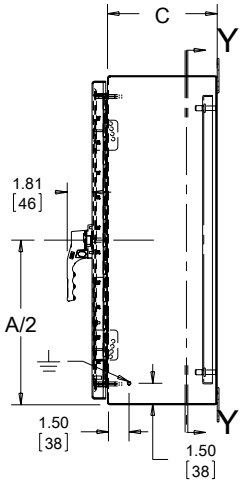
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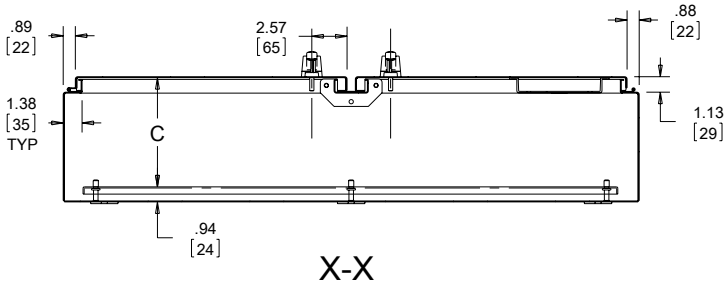
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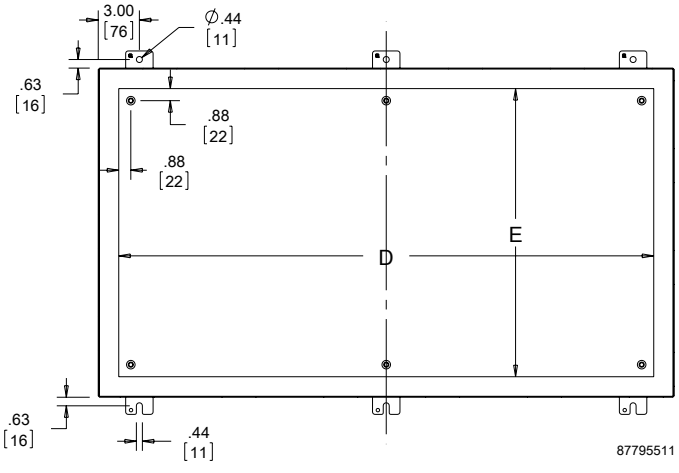
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CONTINUOUS HINGE TWO-DOOR WITH 3-POINT LATCH, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

For indoor applications requiring stainless steel, enclosure features overlapping doors and a centerpost-free interior for easy panel and component installation. The enclosure is secured by a single key-locking handle and three-point latching.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Rolled lip around all sides of enclosure body opening
- Gasketed overlapping doors eliminate need for centerpost
- External mounting brackets
- Plated steel 3-point latching mechanism and keylocking handle
- Easily removable doors by pulling heavy-gauge continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels
- Bonding provision on doors; grounding studs on body

FINISH

Doors, sides, top and bottom have smooth #4 brushed finish.

ACCESSORIES

Floor Stand Kit, Stainless Steel, page 241
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A12SW

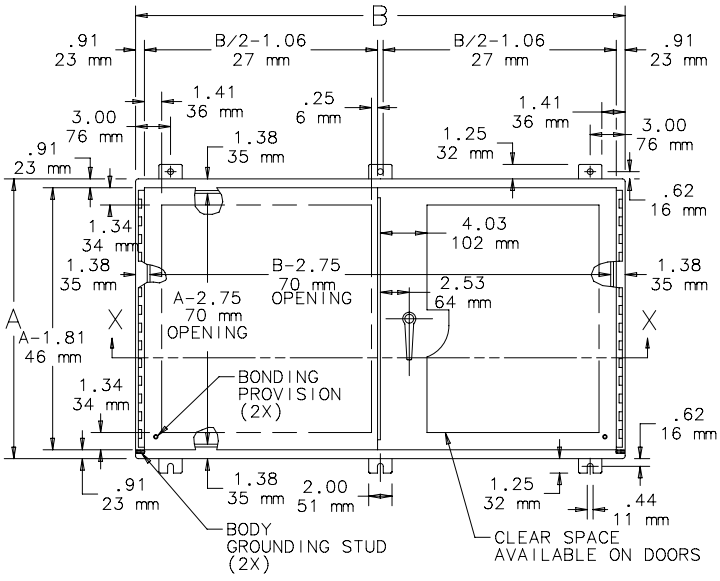
Standard Product

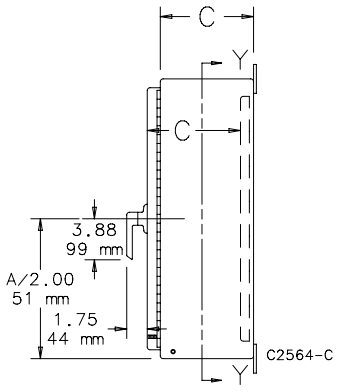
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Gauge	Panel Size D x E in./mm	Y in./mm
A244208WFSSLP	24.00 x 42.00 x 8.00 610 x 1067 x 203	A42P24	A42P24G	12	39.00 x 21.00 991 x 533	1.50 38
A244808WFSSLP	24.00 x 48.00 x 8.00 610 x 1219 x 203	A48P24	A48P24G	12	45.00 x 21.00 1143 x 533	1.50 38
A304210WFSSLP	30.00 x 42.00 x 10.00 762 x 1067 x 254	A42P30	A42P30G	12	39.00 x 27.00 991 x 686	1.50 38
A304810WFSSLP	30.00 x 48.00 x 10.00 762 x 1219 x 254	A48P30	A48P30G	12	45.00 x 27.00 1143 x 686	1.50 38
A306010WFSSLP	30.00 x 60.00 x 10.00 762 x 1524 x 254	A60P30	A60P30G	12	57.00 x 27.00 1448 x 686	1.50 38
A364212WFSSLP	36.00 x 42.00 x 12.00 914 x 1067 x 305	A42P36	A42P36G	12	39.00 x 33.00 991 x 838	1.50 38
A364812WFSSLP	36.00 x 48.00 x 12.00 914 x 1219 x 305	A48P36	A48P36G	12	45.00 x 33.00 1143 x 838	1.50 38
A366012WFSSLP	36.00 x 60.00 x 12.00 914 x 1524 x 305	A60P36	A60P36G	12	57.00 x 33.00 1448 x 838	1.50 38
A424212WFSSLP	42.00 x 42.00 x 12.00 1067 x 1067 x 305	A42P42	A42P42G	12	39.00 x 39.00 991 x 991	1.50 38
A424812WFSSLP	42.00 x 48.00 x 12.00 1067 x 1219 x 305	A48P42	A48P42G	12	45.00 x 39.00 1143 x 991	1.50 38
A426012WFSSALP	42.00 x 60.00 x 12.00 1067 x 1524 x 305	A60BFP42	A60BFP42G	10	56.00 x 38.00 1422 x 965	2.00 51
A484812WFSSLP	48.00 x 48.00 x 12.00 1219 x 1219 x 305	A48P48	A48P48G	10	44.00 x 44.00 1118 x 1118	2.00 51

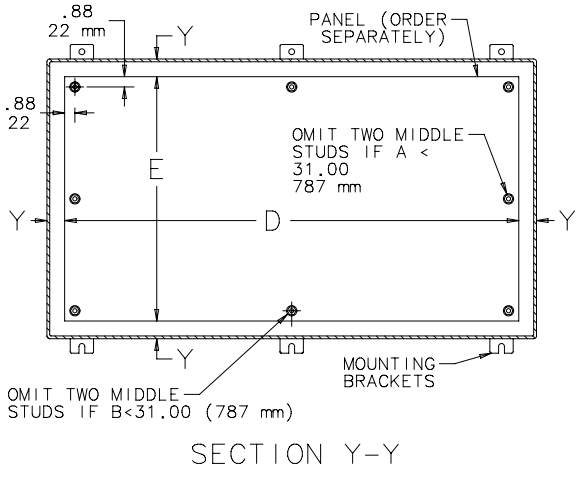
Purchase panels separately. Optional stainless steel and aluminum panels are available for most sizes.

A424212WFSSLP, A424812WFSSLP, A426012WFSSALP enclosure backs have internal stiffeners.

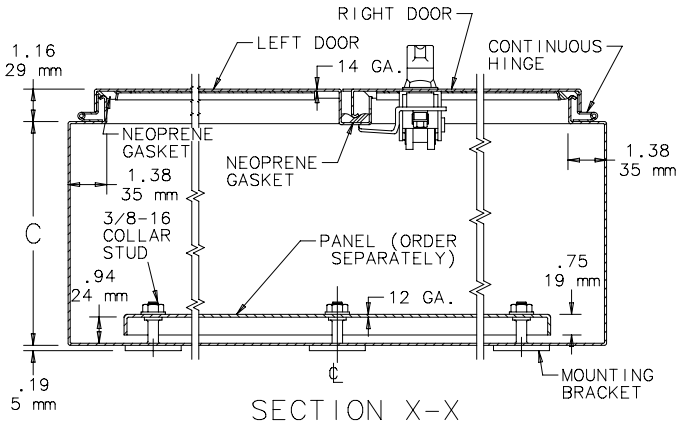
A484812WFSSLP back is 12 gauge.







SECTION Y-Y



SECTION X-X

NOTE:
Right door has large removable 12.00 x 12.00 (305mm x 305mm) data pocket. Exception: When A = 24 in. (610 mm) a small 6.00 x 6.00 (152mm x 152mm) data pocket is provided.

REPLACEMENT DOOR WITH 3-POINT LATCH, TYPE 4X

INDUSTRY STANDARDS

Maintains NEMA Type 4X rating when properly installed on Hoffman SSLP clamp cover or SSLP3PT stainless steel wall-mount enclosures.

APPLICATION

Replacement door for SSLP and SSLP3PT style enclosures. Maintains NEMA Type 4X rating and converts clamp covers to a 3-point latch. Replacement door is ideal for corrosive enclosure installations that require frequent access and the security of a POWERGLIDE padlocking handle.

SPECIFICATIONS

- 14 gauge Type 304 or Type 316L stainless steel material
- Seamless foam-in-place gasket
- Type 316L stainless steel POWERGLIDE handle
- Internal 3-point latching hardware installed
- Data pocket is high-impact thermoplastic
- Hinge halves and stainless steel hinge pin
- Bonding provision

FINISH

Door has a smooth #4 brushed finish on the exterior. The Type 316L stainless steel handle is electropolished.

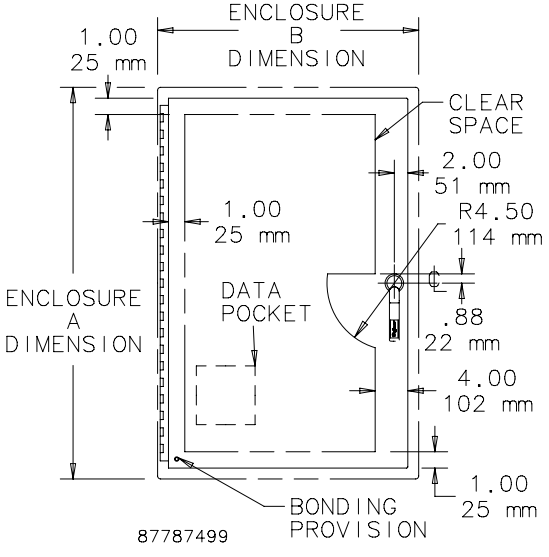
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4SW3, A4SY

Standard Product

Catalog Number	Material	Fits (in.)
Z24208SS3PT	304	A = 24.00, B = 20.00
Z24208SS63PT	316L	A = 24.00, B = 20.00
Z24248SS3PT	304	A = 24.00, B = 24.00
Z24248SS63PT	316L	A = 24.00, B = 24.00
Z30248SS3PT	304	A = 30.00, B = 24.00
Z30248SS63PT	316L	A = 30.00, B = 24.00
Z36248SS3PT	304	A = 36.00, B = 24.00
Z36248SS63PT	316L	A = 36.00, B = 24.00
Z36308SS3PT	304	A = 36.00, B = 30.00
Z36308SS63PT	316L	A = 36.00, B = 30.00
Z36368SS3PT	304	A = 36.00, B = 36.00
Z36368SS63PT	316L	A = 36.00, B = 36.00
Z48368SS3PT	304	A = 48.00, B = 36.00
Z48368SS63PT	316L	A = 48.00, B = 36.00
Z60368SS3PT	304	A = 60.00, B = 36.00
Z60368SS63PT	316L	A = 60.00, B = 36.00



Notes

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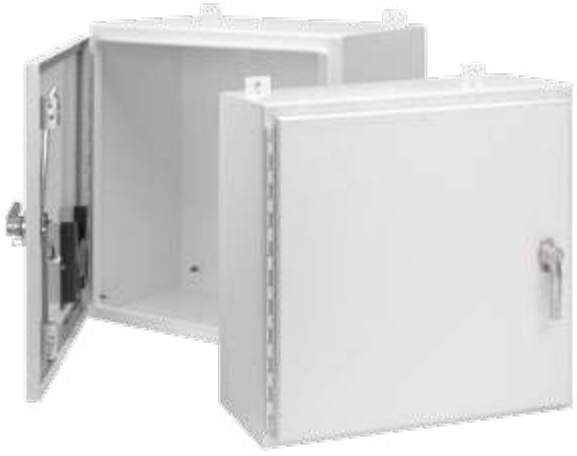
PAINTED WHITE WITH 3-POINT LATCH, TYPE 4X



INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

These single-door stainless steel enclosures provide industry-leading protection for housing electrical components and controls in outdoor or corrosive environments. White polyester powder reduces absorption of solar radiation, which keeps internal components cooler. Hoffman's exclusive Type 316L stainless steel small POWERGLIDE padlocking handle and internal 3-point latching combine ease of access with security.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel bodies and doors
- Seams continuously welded and ground smooth
- Type 4-rated gasket
- 90-degree external formed flange on top of body opening
- Type 316L stainless steel padlocking POWERGLIDE Handle and 3-point latching
- Door removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels

FINISH

Enclosures have white polyester powder paint finish inside and out. Handle is electropolished.

ACCESSORIES

PANELITE Enclosure Lights, page 1393
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

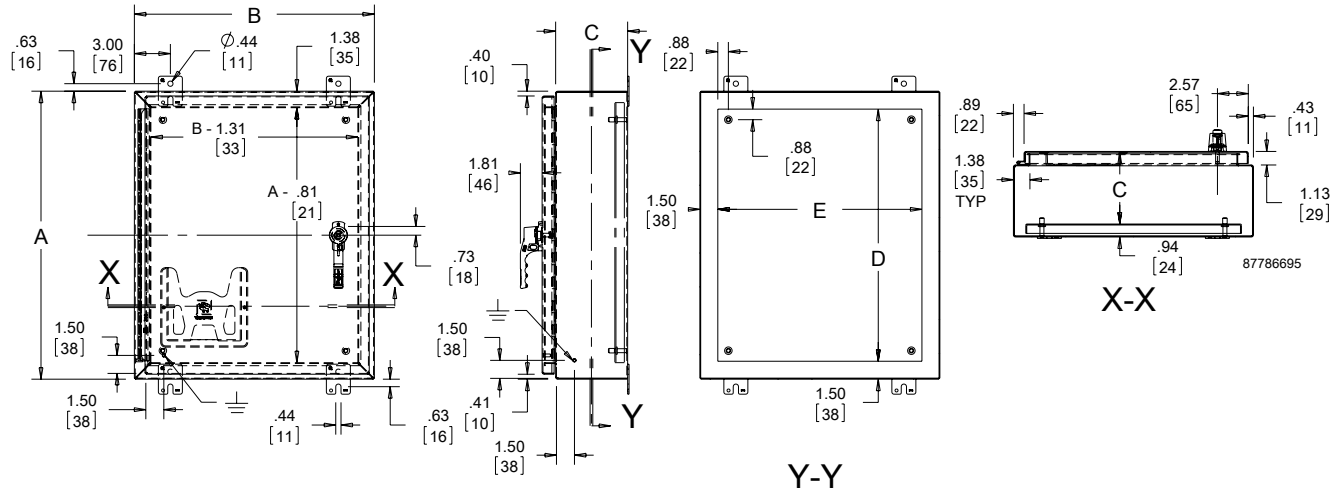
BULLETIN: A4SW3

Standard Product

Catalog Number	AxBxC in./mm	F in./mm	Steel Panel	Conductive Panel	Stainless Steel Panel	Panel Size D x E in./mm	Data Pocket
A24H2408SSLP3PTW	24.00 x 24.00 x 8.00 610 x 610 x 203	3.00 76	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A30H2408SSLP3PTW	30.00 x 24.00 x 8.00 762 x 610 x 203	3.00 76	A30P24	A30P24G	A30P24SS6	27.00 x 21.00 686 x 533	Large
A24H2010SSLP3PTW	24.00 x 20.00 x 10.00 610 x 508 x 254	3.00 76	A24P20	A24P20G	A24P20SS6	21.00 x 17.00 533 x 432	Small
A24H2412SSLP3PTW	24.00 x 24.00 x 12.00 610 x 610 x 305	3.00 76	A24P24	A24P24G	A24P24SS6	21.00 x 21.00 533 x 533	Small
A36H3012SSLP3PTW	36.00 x 30.00 x 12.00 914 x 762 x 305	3.00 76	A36P30	A36P30G	A36P30SS6	33.00 x 27.00 838 x 686	Large
A36H3612SSLP3PTW	36.00 x 36.00 x 12.00 914 x 914 x 305	3.00 76	A36P36	A36P36G	A36P36SS6	33.00 x 33.00 838 x 838	Large
A42H3612SSLP3PTW	42.00 x 36.00 x 12.00 1067 x 914 x 305	3.00 76	A42P36	A42P36G	A42P36SS6	39.00 x 33.00 911 x 838	Large
A48H3612SSLP3PTW	48.00 x 36.00 x 12.00 1219 x 914 x 305	3.00 76	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large
A60H3612SSLP3PTW	60.00 x 36.00 x 12.00 1524 x 914 x 305	3.00 76	A60P36	A60P36G	A60P36SS6	57.00 x 33.00 1448 x 838	Large
A48H3616SSLP3PTW	48.00 x 36.00 x 16.00 1219 x 914 x 406	3.00 76	A48P36	A48P36G	A48P36SS6	45.00 x 33.00 1143 x 838	Large

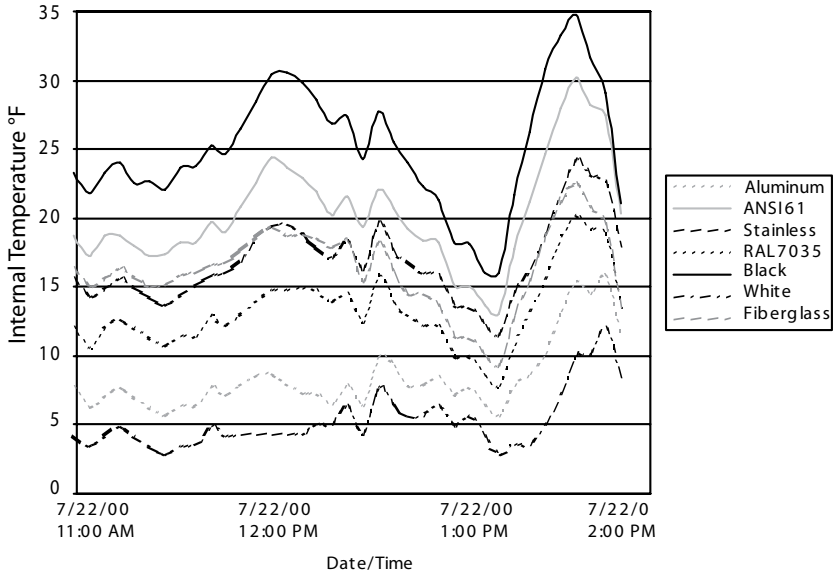
Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

Panels have a formed flange along any side longer than 21.00 in. (533 mm). Panel A24P20 has a flange on all four sides.



Temperature Rise Example

Internal Enclosure Temperature above Outside Ambient



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HOFFMAN WATERSHED, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/cUL external mounting requirement.

UL 508A Listed; Type 4, 4X, 12; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

NSF 169
NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Specifically designed for use in sanitary washdown production environments, particularly food and beverage manufacturing. Hoffman WATERSHED Enclosures feature a sloped top, sloped door edges, bullet-style hinges and additional unique features that facilitate washdown runoff.

SPECIFICATIONS

- Manufactured from 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by door
- Hinged side of door has provisions to allow direct flushing of hinge area
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits the placement of objects on the top of the enclosure
- 170-degree door opening
- Door edges are sloped 20-degrees at top and bottom edges to facilitate runoff
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Stainless steel quarter-turn latches furnished with flush slotted insert
- Seamless foam-in-place gasket
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Enclosures with 'A' dimension of 16.00 (406 mm) or greater utilize NEMA style panels; models with 'A' dimension less than 16.00 (406 mm) utilize junction box style panels.
- Mounting holes in back of body for direct mounting, optional stand-off kit or mounting bracket kit
- Furnished hardware kit consists of panel mounting fasteners, grounding hardware and sealing washers for wall-mounting holes

FINISH

External surfaces have a #4 brushed finish.

ACCESSORIES

Mounting Bracket Kit, 304, page 184
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Stand-Off Kit, page 184
Padlocking Handle Kit, page 184
Padlocking Latch Kit, page 184
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324

BULLETIN: WS1

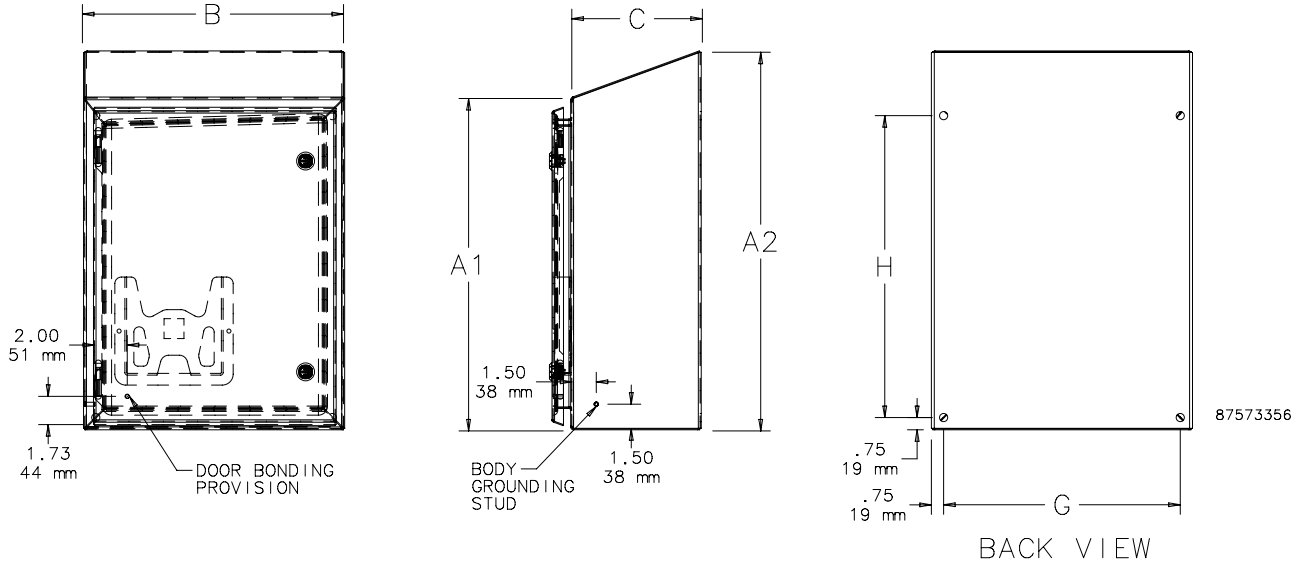
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Stainless Steel Panel	A1 in./mm	A2 in./mm	G in./mm	H in./mm	Latch Qty.
WS080604SS	8.00 x 6.00 x 4.00 315 x 152 x 102	A6P4	A6P4G	A6P4SS	8.12 206	9.54 242	4.50 114	6.50 165	1
WS100804SS	10.00 x 8.00 x 4.00 254 x 315 x 102	A8P6	A8P6G	A8P6SS	10.18 259	11.59 294	6.50 165	8.50 216	1
WS121006SS	12.00 x 10.00 x 6.00 305 x 254 x 152	A10P8	A10P8G	A10P8SS	12.23 311	14.37 365	8.50 216	10.50 267	2
WS141208SS	14.00 x 12.00 x 8.00 356 x 305 x 203	A12P10	A12P10G	A12P10SS	14.28 363	17.15 436	10.50 267	12.50 318	2
WS161208SS	16.00 x 12.00 x 8.00 406 x 305 x 203	A16P12	A16P12G	A16P12SS6	16.20 411	19.10 485	10.50 267	14.50 368	2
WS161608SS	16.00 x 16.00 x 8.00 406 x 406 x 203	A16P16	A16P16G	A16P16SS6	16.30 414	19.20 488	14.50 368	14.50 368	2
WS201608SS	20.00 x 16.00 x 8.00 508 x 406 x 203	A20P16	A20P16G	A20P16SS6	20.30 516	23.20 589	14.50 368	18.50 470	2
WS202008SS	20.00 x 20.00 x 8.00 508 x 508 x 203	A20P20	A20P20G	A20P20SS6	20.40 518	23.31 592	18.50 470	18.50 470	2
WS242008SS	24.00 x 20.00 x 8.00 610 x 508 x 203	A24P20	A24P20G	A24P20SS6	24.40 620	27.31 694	18.50 470	22.50 572	2
WS242408SS	24.00 x 24.00 x 8.00 610 x 610 x 203	A24P24	A24P24G	A24P24SS6	24.51 623	27.41 696	22.50 572	22.50 572	4
WS302408SS	30.00 x 24.00 x 8.00 762 x 610 x 203	A30P24	A30P24G	A30P24SS6	30.51 785	33.41 849	22.50 572	28.50 724	4
WS303008SS	30.00 x 30.00 x 8.00 762 x 762 x 203	A30P30	A30P30G	A30P30SS6	30.67 779	33.57 853	28.50 724	28.50 724	4
WS363008SS	36.00 x 30.00 x 8.00 914 x 762 x 203	A36P30	A36P30G	A36P30SS6	36.67 931	39.57 1005	28.50 724	34.50 876	5
WS201612SS	20.00 x 16.00 x 12.00 508 x 406 x 305	A20P16	A20P16G	A20P16SS6	20.30 516	24.66 626	14.50 368	18.50 470	2
WS202012SS	20.00 x 20.00 x 12.00 508 x 508 x 305	A20P20	A20P20G	A20P20SS6	20.40 518	24.76 629	18.50 470	18.50 470	2
WS242412SS	24.00 x 24.00 x 12.00 610 x 610 x 305	A24P24	A24P24G	A24P24SS6	24.51 623	28.87 733	22.50 572	22.50 572	4
WS302412SS	30.00 x 24.00 x 12.00 762 x 610 x 305	A30P24	A30P24G	A30P24SS6	30.51 775	34.87 886	22.50 572	28.50 724	4
WS363012SS	36.00 x 30.00 x 12.00 914 x 762 x 305	A36P30	A36P30G	A36P30SS6	36.67 931	41.03 1042	28.50 724	34.50 876	5
WS363612SS	36.00 x 36.00 x 12.00 914 x 914 x 305	A36P36	A36P36G	A36P36SS6	36.82 935	41.18 1046	34.50 876	34.50 876	5
WS363016SS	36.00 x 30.00 x 16.00 914 x 762 x 406	A36P30	A36P30	A36P30SS6	36.82 935	42.64 1083	28.50 724	34.50 876	5
WS483616SS	48.00 x 36.00 x 16.00 1219 x 914 x 406	A48P36	A48P36G	A48P36SS6	48.82 1240	54.64 1388	34.50 876	46.50 1181	5
WS603616SS	60.00 x 36.00 x 16.00 1524 x 914 x 406	A60P36	A60P36G	A60P36SS6	60.82 1545	66.64 1693	34.50 876	58.50 1486	5

Purchase panels separately. Optional stainless steel, conductive or aluminum panels are available.

WS603616SS back is 10 gauge stainless steel.

WS080604SS, WS100804SS, WS121006SS and WS141208SS do not accept print pockets.



MOUNTING BRACKET KIT, 304

Type 304 stainless steel brackets are field-installable. Brackets maintain Type 4X rating. All hardware is included. Four brackets per kit.

Top brackets must be mounted to the sides of enclosure.

BULLETIN: A80

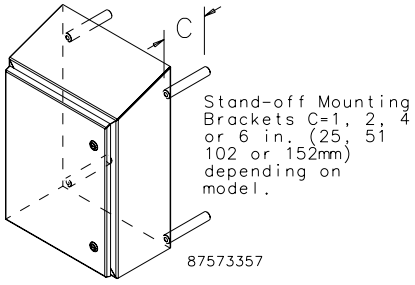
Catalog Number	Description
CMFKSS	Type 304 stainless steel mounting bracket kit

STAND-OFF KIT

Stand-offs provide space between wall-mount enclosure and wall for better washdown accessibility. Maintains Type 4X rating. Sealing washers included. Four stand-offs per kit.

BULLETIN: WSY

Catalog Number	C (in.)	C (mm)
WSS0K1SS	1.00	25
WSS0K2SS	2.00	51
WSS0K4SS	4.00	102
WSS0K6SS	6.00	152



PADLOCKING HANDLE KIT

Type 316 stainless steel padlocking handle for use on Hoffman WATERSHED Wall-Mount Enclosures. Maintains Type 4X rating.

BULLETIN: WSY

Catalog Number	Description
WSHPL	Stainless Steel Padlocking Handle

PADLOCKING LATCH KIT

Type 304 stainless steel padlocking latch for use on Hoffman WATERSHED Wall-Mount Enclosures. Maintains Type 4X rating.

BULLETIN: WSY

Catalog Number	Description
WSLPL	Padlocking Latch Kit

Notes

TWO-DOOR WITH 3-POINT LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

These two-door enclosures provide industry-leading protection for large components or complex mounting configurations in highly-corrosive environments. Three-point latching with the Hoffman POWERGLIDE padlocking handles and a foam-in-place gasket combine convenience with security. They are well-suited for use in petrochemical plants; pulp and paper processing; water treatment facilities; and food, pharmaceutical and packaging applications.

SPECIFICATIONS

- Manufactured from 12 gauge Type 304 or 316L stainless steel
- Backs are 10 or 12 gauge stainless steel with x-form stiffeners
- Seams continuously welded and ground smooth; no holes or knockouts
- Removable centerpost for easy panel installation
- Collar studs provided for mounting optional panels
- Panel supports included
- Heavy-duty lifting eyes are Type 316L stainless steel
- Heavy-duty 3-point latching mechanism operated by Type 316L stainless steel POWERGLIDE padlocking handles
- Body flange trough collar excludes liquids and contaminants
- Heavy-duty stainless steel continuous hinges support each door
- Bonding provision on doors; grounding studs on body
- Accessory mounting channel provided in enclosure top
- Data pocket is high-impact thermoplastic
- 12-in. (305-mm) removable floor stands are bolted to enclosure
- Seamless foam-in-place one-piece gasket provides oil-tight and dust-tight seal against contaminants
- External hardware manufactured of Type 316 stainless steel

FINISH

Enclosures are unpainted. Front, sides, top and back have smooth #4 brushed finish. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Electrical Interlocks, page 1390
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345

MODIFICATION AND CUSTOMIZATION

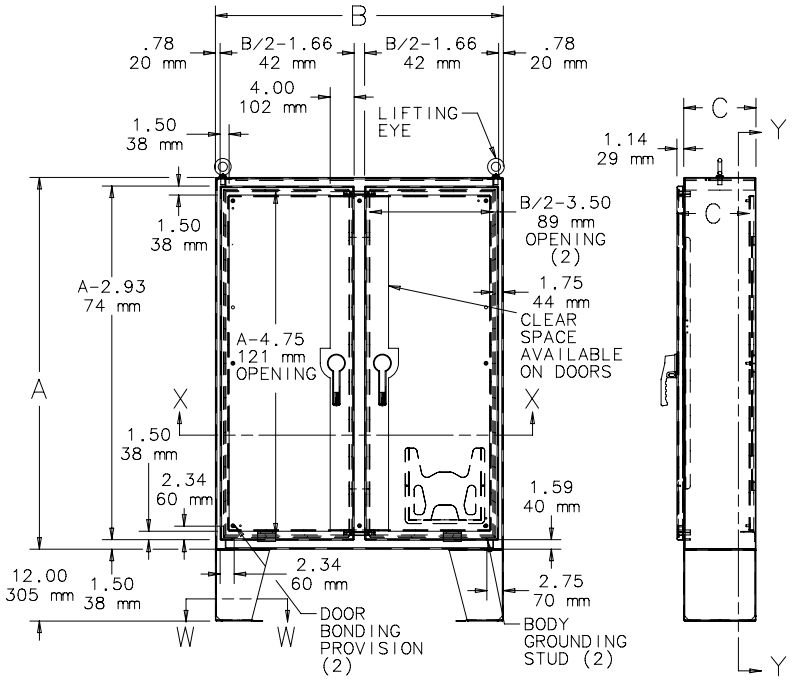
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

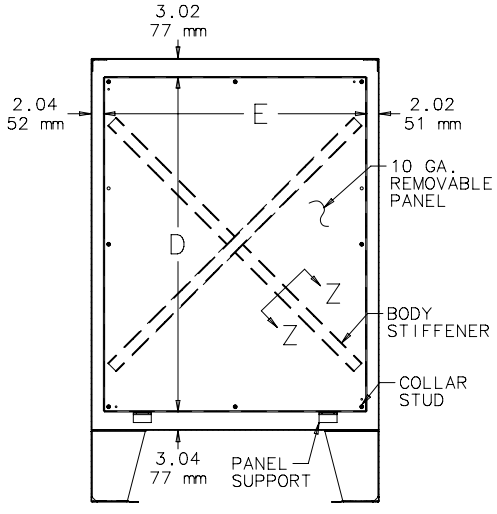
BULLETIN: A4S3

Standard Product

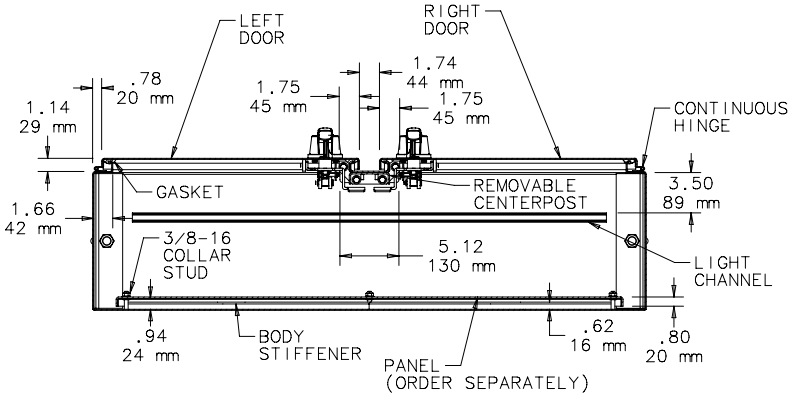
Catalog Number	AxBxC in.	AxBxC mm	Stainless Steel Type	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)
A62H4812SSLP3PT	62.06 x 48.06 x 12.06	1576 x 1221 x 306	304	A60P48	A60P48G	56.00 x 44.00	1422 x 1118
A62H4812SS6LP3PT	62.06 x 48.06 x 12.06	1576 x 1221 x 306	316L	A60P48	A60P48G	56.00 x 44.00	1422 x 1118
A62H6012SSLP3PT	62.06 x 60.06 x 12.06	1576 x 1526 x 306	304	A60P60	A60P60G	56.00 x 56.00	1422 x 1422
A62H6012SS6LP3PT	62.06 x 60.06 x 12.06	1576 x 1526 x 306	316L	A60P60	A60P60G	56.00 x 56.00	1422 x 1422
A74H6012SSLP3PT	74.06 x 60.06 x 12.06	1881 x 1526 x 306	304	A72P60	A72P60G	68.00 x 56.00	1727 x 1422
A74H6012SS6LP3PT	74.06 x 60.06 x 12.06	1881 x 1526 x 306	316L	A72P60	A72P60G	68.00 x 56.00	1727 x 1422
A74H7212SSLP3PT	74.06 x 72.06 x 12.06	1881 x 1830 x 306	304	A72P72	A72P72G	68.00 x 68.00	1727 x 1727
A74H7212SS6LP3PT	74.06 x 72.06 x 12.06	1881 x 1830 x 306	316L	A72P72	A72P72G	68.00 x 68.00	1727 x 1727
A62H4818SSLP3PT	62.06 x 48.06 x 18.06	1576 x 1221 x 459	304	A60P48	A60P48G	56.00 x 44.00	1422 x 1118
A62H4818SS6LP3PT	62.06 x 48.06 x 18.06	1576 x 1221 x 459	316L	A60P48	A60P48G	56.00 x 44.00	1422 x 1118
A62H6018SSLP3PT	62.06 x 60.06 x 18.06	1576 x 1526 x 459	304	A60P60	A60P60G	56.00 x 56.00	1422 x 1422
A62H6018SS6LP3PT	62.06 x 60.06 x 18.06	1576 x 1526 x 459	316L	A60P60	A60P60G	56.00 x 56.00	1422 x 1422
A74H6018SSLP3PT	74.06 x 60.06 x 18.06	1881 x 1526 x 459	304	A72P60	A72P60G	68.00 x 56.00	1727 x 1422
A74H6018SS6LP3PT	74.06 x 60.06 x 18.06	1881 x 1526 x 459	316L	A72P60	A72P60G	68.00 x 56.00	1727 x 1422
A74H7218SSLP3PT	74.06 x 72.06 x 18.06	1881 x 1830 x 459	304	A72P72	A72P72G	68.00 x 68.00	1727 x 1727
A74H7218SS6LP3PT	74.06 x 72.06 x 18.06	1881 x 1830 x 459	316L	A72P72	A72P72G	68.00 x 68.00	1727 x 1727
A74H7224SSLP3PT	74.06 x 72.06 x 24.06	1881 x 1830 x 611	304	A72P72	A72P72G	68.00 x 68.00	1727 x 1727
A74H7224SS6LP3PT	74.06 x 72.06 x 24.06	1881 x 1830 x 611	316L	A72P72	A72P72G	68.00 x 68.00	1727 x 1727

Purchase panels separately.





SECTION Y-Y



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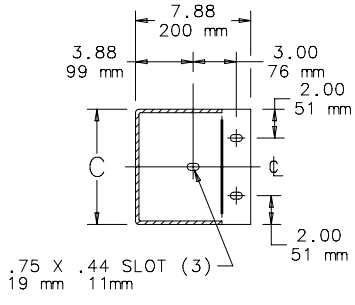
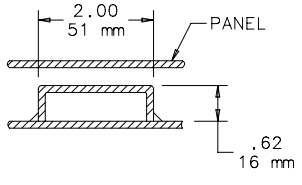


SECTION W-W



SECTION Z-Z

87784698

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TWO-DOOR WITH FLOOR STANDS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA Type 3, 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

This two-door enclosure provides industry-leading protection for systems incorporating large components or complex mounting configurations in highly corrosive environments. It is typically used in food processing plants, pharmaceutical manufacturing facilities, petrochemical plants, pulp and paper processing and water treatment facilities.

SPECIFICATIONS

- 12 gauge Type 304 or 316L stainless steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Backs are 10 or 12 gauge stainless steel with x-form stiffeners
- Removable centerpost for easy panel installation
- Panel supports
- Stainless steel screws and clamps on three sides of each door assure water-tight seal
- Rolled lip around entire door opening excludes liquids and contaminants
- Heavy-gauge stainless steel continuous hinge
- Data pocket is high-impact thermoplastic
- 12-in. (305-mm) floor stands are bolted onto enclosure
- Hasp and staple for padlocking
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Collar studs provided for mounting optional panels
- External hardware manufactured of Type 316 stainless steel
- Bonding provision on doors; gounding studs on body
- Accessory mounting channel provided in enclosure top
- Type 316L stainless steel lifting eyes

FINISH

Enclosures are unpainted. Front, sides, top and back have smooth #4 brushed finish. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

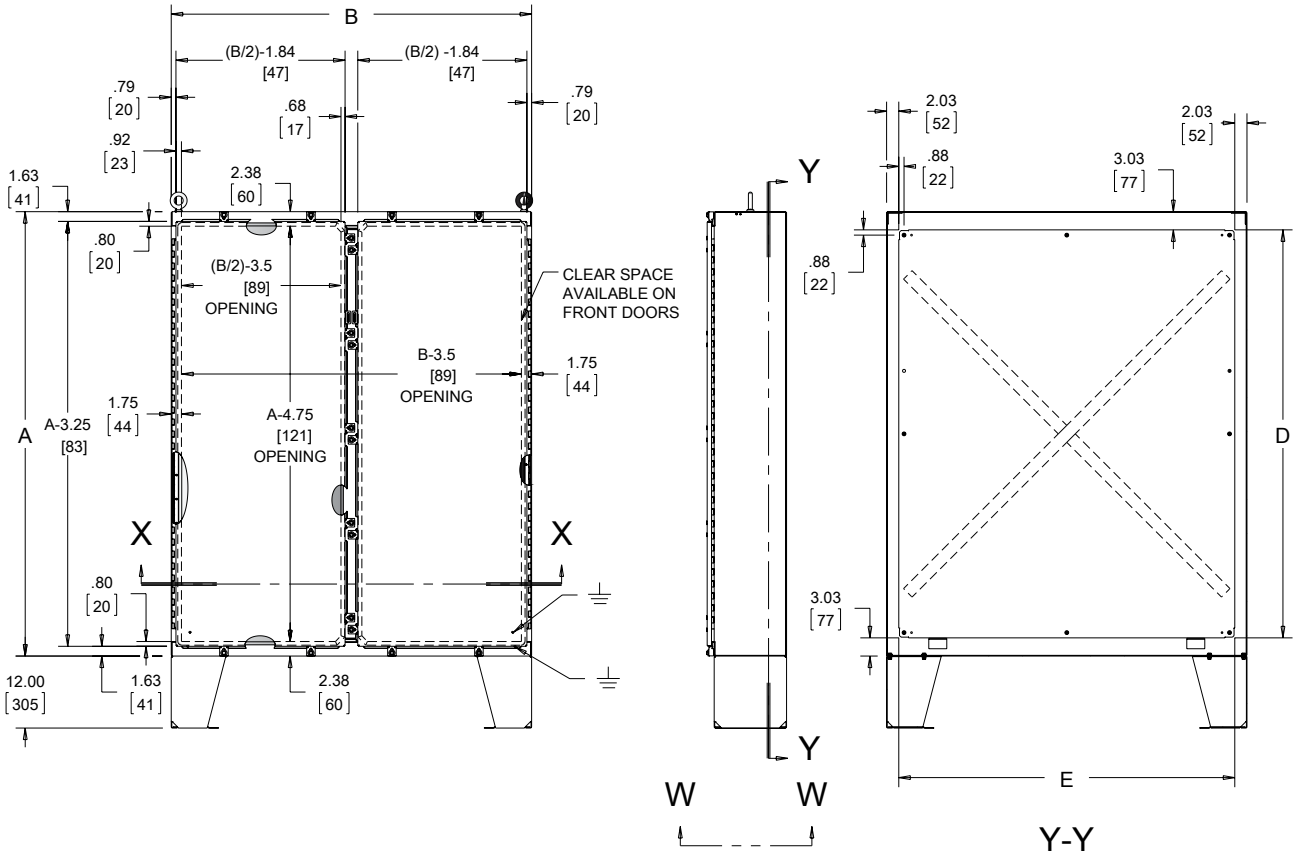
BULLETIN: A4SL

Standard Product

Catalog Number	AxBxC in./mm	Stainless Steel Type	Panel	Conductive Panel	Panel Size D x E in./mm	Number of Clamps
A62H4812SSLP	62.06 x 48.06 x 12.06 1576 x 1221 x 306	304	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	16
A62H4812SS6LP	62.06 x 48.06 x 12.06 1576 x 1221 x 306	316L	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	16
A62H6012SSLP	62.06 x 60.06 x 12.06 1576 x 1526 x 306	304	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	16
A62H6012SS6LP	62.06 x 60.06 x 12.06 1576 x 1526 x 306	316L	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	16
A74H6012SSLP	74.06 x 60.06 x 12.06 1881 x 1526 x 306	304	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	18
A74H6012SS6LP	74.06 x 60.06 x 12.06 1881 x 1526 x 306	316L	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	18
A74H7212SSLP	74.06 x 72.06 x 12.09 1881 x 1830 x 307	304	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	18
A74H7212SS6LP	74.06 x 72.06 x 12.09 1881 x 1830 x 307	316L	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	18
A74H7224SSLP	74.06 x 72.06 x 24.09 1881 x 1830 x 612	304	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	18
A74H7224SS6LP	74.06 x 72.06 x 24.09 1881 x 1830 x 612	316L	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	18

Purchase panels separately.

A74H7212SSLP, A74H7212SS6LP, A74H7224SSLP and A74H7224SS6LP have 10 gauge back.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A
A-3.25 [83]
A-4.75 [121] OPENING
X
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Y
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D
E
Y-Y
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W-W

C2543-C

nVent | HOFFMAN

GENERAL PURPOSE TWO-DOOR FLOOR-MOUNT WITH QUARTER-TURN LATCHES, TYPE 4X

SPECIFICATIONS

- 14 gauge doors and 12 gauge body from Type 304 stainless steel
- Seams continuously welded and ground smooth
- Flange trough collar on all four sides of door openings
- Seamless foam-in-place one-piece gasket provides water-, oil- and dust-tight seal against contaminants
- Black die-cast quarter-turn latches with slotted insert provided on three sides of each door
- Concealed hinges provide 180-degree door opening and allow easy door removal and cleaning of hinge area
- Bolt-on 12-in.-high stainless steel floor stands
- Heavy-duty Type 316L stainless steel lifting eyes
- Collar studs on inside of enclosure back for mounting optional panels
- Removable centerpost for easy panel installation
- Bonding provisions on doors; grounding studs on body
- Data pocket is high-impact plastic attached with pressure-sensitive adhesive
- No interior stiffeners to obstruct component mounting
- Accessory mounting channel provided in enclosure top

FINISH

Stainless steel enclosures are unpainted. External surfaces of front, sides, top and bottom have a #4 finish. Interior welds are not finished. Optional mild steel panels are painted white. Optional conductive panels are available.

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC: Type 3R, 4, 4X, 12
Number E61997
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

This two-door stainless steel enclosure with quarter-turn latches is designed to house electronic controls and components. It provides protection from noncorrosive or mildly corrosive elements in both indoor and outdoor environments. Typical applications are in the food and beverage, packaging, water, petroleum and chemical processing industries.

ACCESSORIES

Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

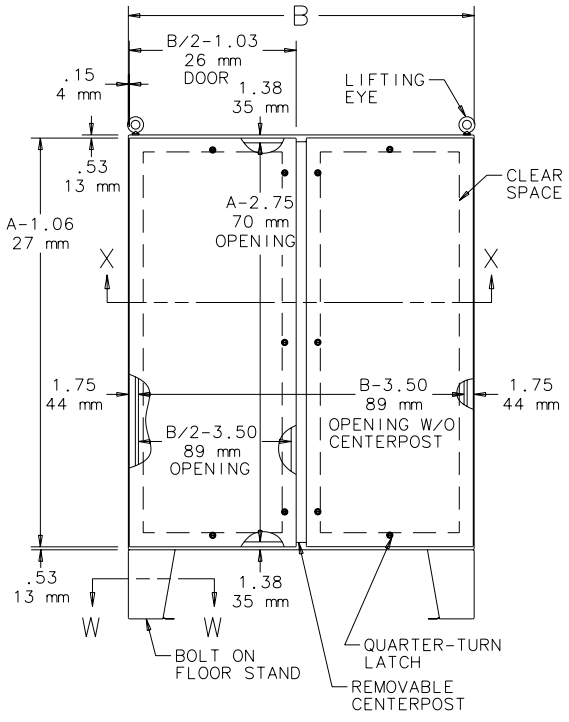
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

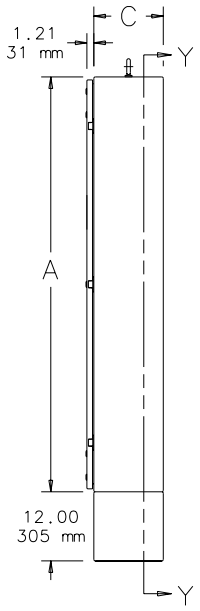
BULLETIN: A4S2

Standard Product

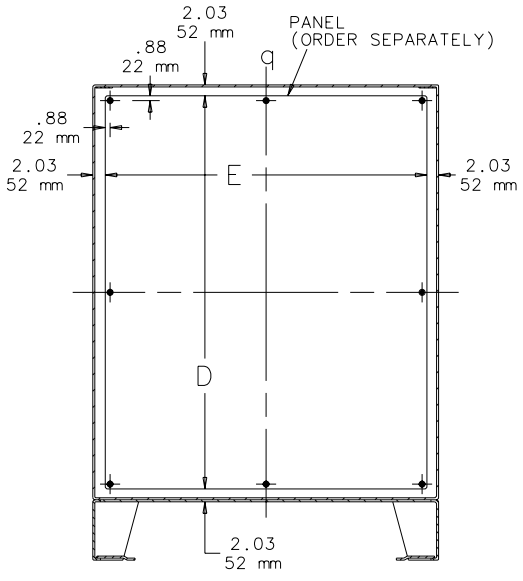
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	Number of Latches
A60H4812SSLPQT	60.06 x 48.06 x 12.06 1526 x 1221 x 306	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	10
A60H6012SSLPQT	60.06 x 60.06 x 12.06 1526 x 1526 x 306	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	10
A72H6012SSLPQT	72.06 x 60.06 x 12.06 1830 x 1526 x 306	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	10
A72H7212SSLPQT	72.06 x 72.06 x 12.06 1830 x 1830 x 306	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	10
A60H4818SSLPQT	60.06 x 48.06 x 18.06 1526 x 1221 x 459	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	10
A60H6018SSLPQT	60.06 x 60.06 x 18.06 1526 x 1526 x 459	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	10
A72H6018SSLPQT	72.06 x 60.06 x 18.06 1830 x 1526 x 459	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	10
A72H7218SSLPQT	72.06 x 72.06 x 18.06 1830 x 1830 x 459	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	10
A72H7224SSLPQT	72.06 x 72.06 x 24.06 1830 x 1830 x 611	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	10

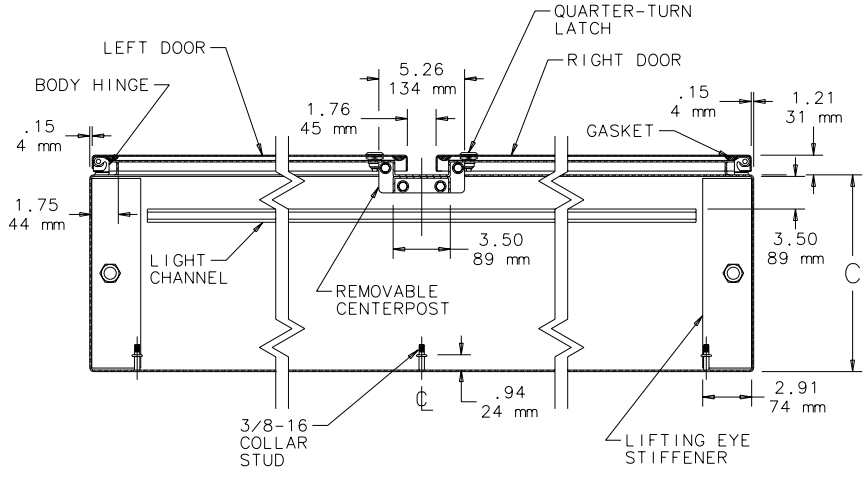
Purchase panels separately.



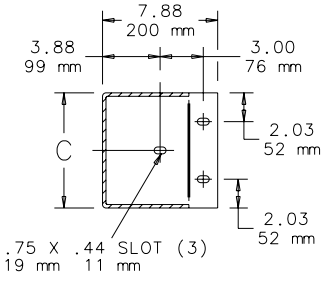


SECTION Y-Y





SECTION X-X



SECTION W-W

87780208

nVent | HOFFMAN

GENERAL PURPOSE SINGLE-DOOR FREE-STAND WITH QUARTER-TURN LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC: Type 3R, 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX

APPLICATION

This single-door stainless steel enclosure with quarter-turn latches is designed to house electronic controls and components. It provides protection from non-corrosive or mildly corrosive elements in both indoor and outdoor environments. Typical applications are in the pharmaceutical, food and beverage, packaging, water, petroleum and chemical processing industries.

SPECIFICATIONS

- Type 304 Stainless Steel 14 gauge doors and body, and 14 or 12 gauge back
- Seams continuously welded and ground smooth
- Flange trough collar on all four sides of door openings
- Seamless foam-in-place one-piece gasket provides water-, oil- and dust-tight seal against contaminants
- Black die-cast quarter-turn latches with slotted insert provided on three sides of door
- Concealed stainless steel hinges provide **180-degree** door opening and allow easy door removal and cleaning of hinge area
- Heavy-duty Type 316L stainless steel lifting eyes
- Internal accessory mounting channels welded horizontally to sides at top, bottom and center
- High-impact plastic Data Pocket kit, attached with pressure-sensitive adhesive, is included with enclosure
- Bonding provision on door; grounding stud on body
- Accessory mounting channel provided in enclosure top

FINISH

Stainless steel enclosures are unpainted. External surfaces of front, sides, top and bottom have a #4 finish. Interior welds are not finished.
Optional mild steel back panels are painted white. Optional conductive back panels are available.

ACCESSORIES

Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

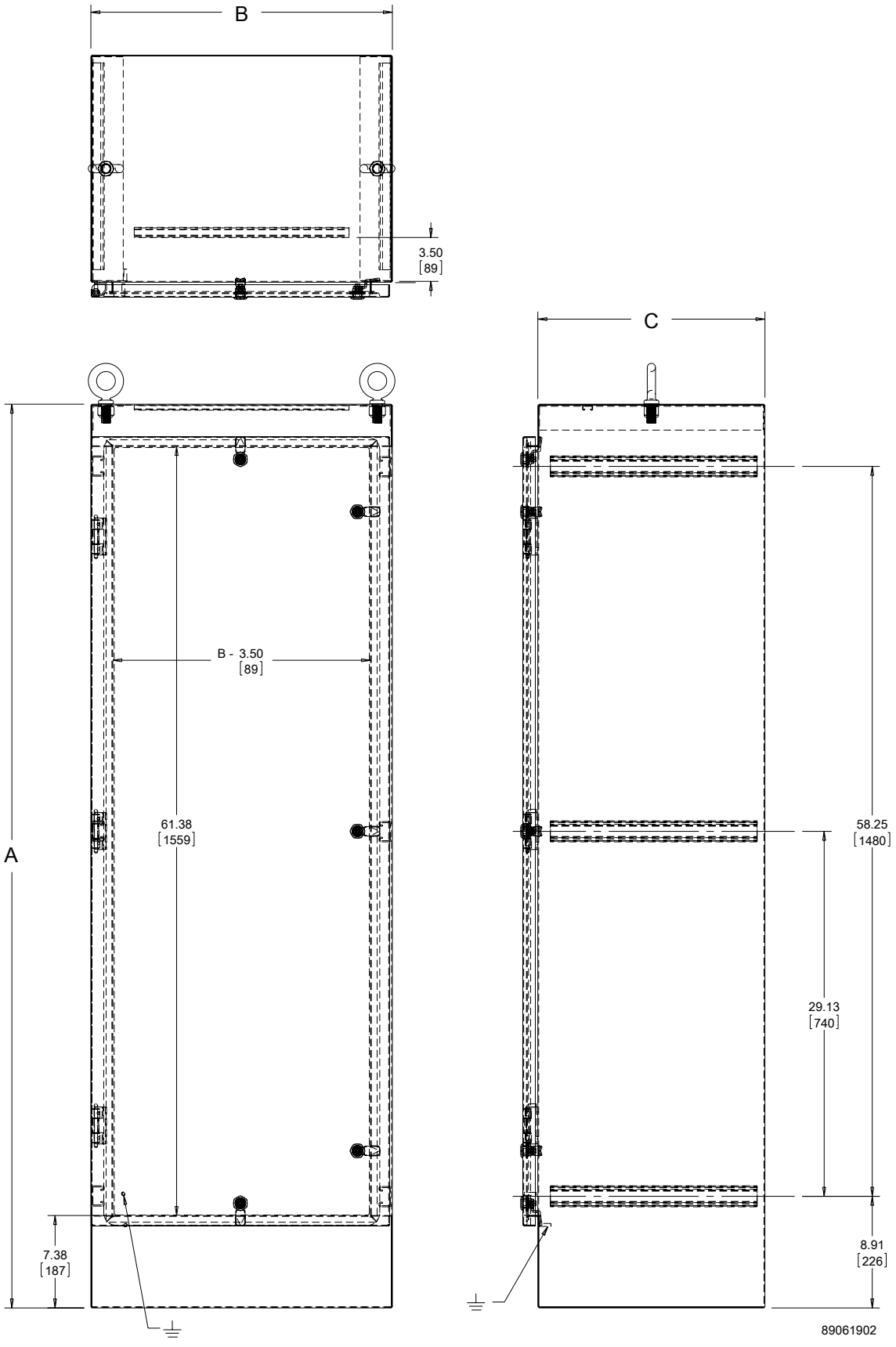
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4S2

Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm
A72HS2418SSLPQT	72.06 x 24.06 x 18.06 1830 x 611 x 459	A72P24F1	A72P24F1G	60.00 x 20.00 1524 x 508
A72HS3024SSLPQT	72.06 x 30.06 x 24.06 1830 x 764 x 611	A72P30F1	A72P30F1G	60.00 x 26.00 1525 x 661
A72HS3624SSLPQT	72.06 x 36.06 x 24.06 1830 x 916 x 611	A72P36F1	A72P36F1G	60.00 x 32.00 1524 x 813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nVent | HOFFMAN

TWO-DOOR FLOOR-MOUNT WITH 3-POINT LATCHES, TYPE 12

APPLICATION

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil and water.

SPECIFICATIONS

- Manufactured from 12 or 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Strong, rigid construction with body stiffeners
- Gasketed overlapping doors eliminate need for centerpost
- Plated steel 3-point latching mechanism and key-locking handle
- Heavy-gauge continuous hinges support each door
- Data pocket, provided on door with 3-point latches, is high-impact thermoplastic
- 12-in. (305-mm) floor stands are welded to enclosure
- Heavy-duty lifting eyes are Type 316 stainless steel
- Panel supports
- Collar studs for mounting optional panel
- Bonding provision on doors; grounding studs on body
- Accessory mounting channel in top of enclosure

FINISH

Enclosures are unpainted. Front, sides, top and back have smooth #4 brushed finished. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Drip Shield Kit for Type 12 Enclosures, page 1372
Enclosure Stabilizers, page 1403
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A12S

INDUSTRY STANDARDS

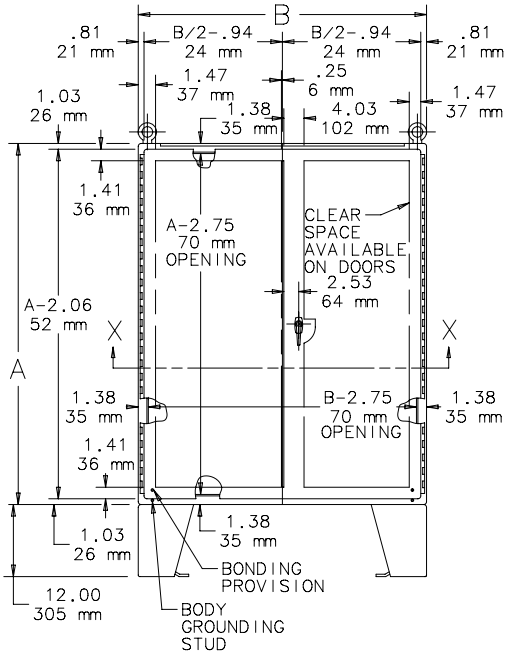
UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

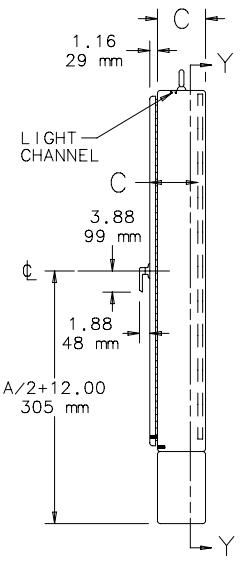
NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

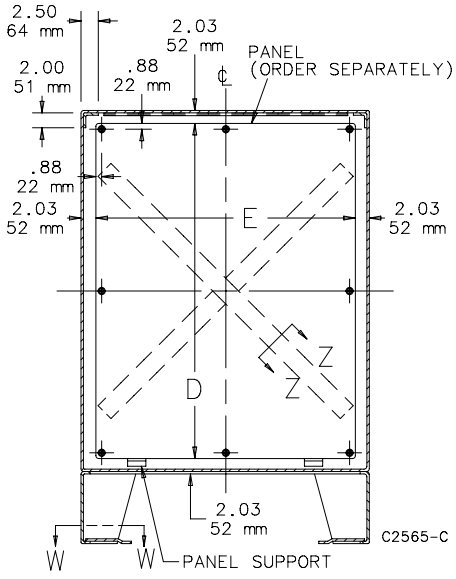
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Gauge	Panel	Galvanized Panel	Panel Gauge	Panel Size D x E (in.)	Panel Size D x E (mm)	Stiffener (Body)
A544208SSLP	54.00 x 42.00 x 8.00	1372 x 1067 x 203	14	A54P42	A54P42G	11	50.00 x 38.00	1270 x 965	3
A604808SSLP	60.06 x 48.06 x 8.06	1526 x 1221 x 205	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A604810SSLP	60.06 x 48.06 x 10.06	1526 x 1221 x 256	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A606010SSLP	60.06 x 60.06 x 10.06	1526 x 1526 x 256	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	1 (X-form)
A726010USSLP	72.06 x 60.06 x 10.06	1830 x 1526 x 256	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	1 (X-form)
A727210USSLP	72.06 x 72.06 x 10.06	1830 x 1830 x 256	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	1 (X-form)
A604812SSLP	60.06 x 48.06 x 12.06	1526 x 1221 x 306	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A606012SSLP	60.06 x 60.06 x 12.06	1526 x 1526 x 306	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	1 (X-form)
A726012USSLP	72.06 x 60.06 x 12.06	1830 x 1526 x 306	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	1 (X-form)
A727212USSLP	72.06 x 72.06 x 12.06	1830 x 1830 x 306	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	1 (X-form)
A604816SSLP	60.06 x 48.06 x 16.06	1526 x 1221 x 408	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A606016SSLP	60.06 x 60.06 x 16.06	1526 x 1526 x 408	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	1 (X-form)
A726016USSLP	72.06 x 60.06 x 16.06	1830 x 1526 x 408	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	1 (X-form)
A727216USSLP	72.06 x 72.06 x 16.06	1830 x 1830 x 408	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	1 (X-form)
A604820SSLP	60.06 x 48.06 x 20.06	1526 x 1221 x 510	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A726020USSLP	72.06 x 60.06 x 20.06	1830 x 1526 x 510	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	1 (X-form)
A727220USSLP	72.06 x 72.06 x 20.06	1830 x 1830 x 510	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	1 (X-form)
A604824SSLP	60.06 x 48.06 x 24.06	1526 x 1221 x 611	12	A60P48	A60P48G	11	56.00 x 44.00	1422 x 1118	1 (X-form)
A606024SSLP	60.06 x 60.06 x 24.06	1526 x 1526 x 611	12	A60P60	A60P60G	11	56.00 x 56.00	1422 x 1422	1 (X-form)
A726024USSLP	72.06 x 60.06 x 24.06	1830 x 1526 x 611	12	A72P60	A72P60G	11	68.00 x 56.00	1727 x 1422	1 (X-form)
A727224USSLP	72.06 x 72.06 x 24.06	1830 x 1830 x 611	12	A72P72	A72P72G	11	68.00 x 68.00	1727 x 1727	1 (X-form)

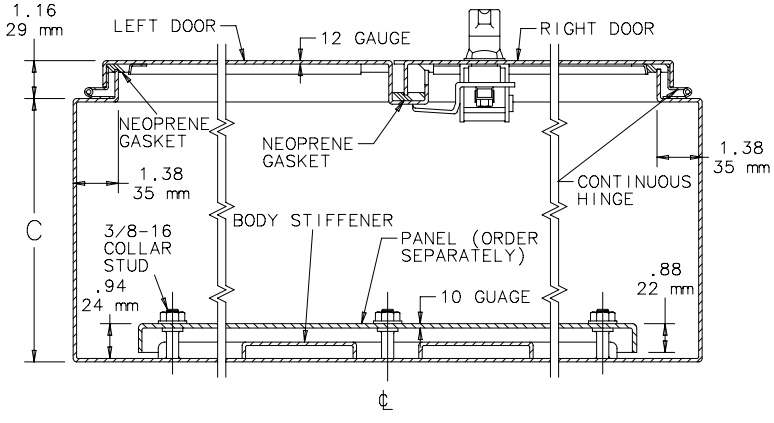
Purchase panels separately.





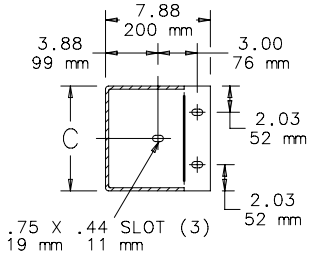


SECTION Y-Y

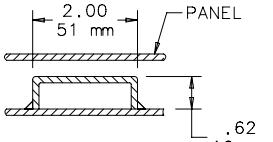


SECTION X-X
(LIFTING ANGLES AND LIGHT CHANNEL NOT SHOWN)

NOTE:
Right door has removable 12 x 12.00 (305mm x 305mm) data pocket



SECTION W-W



SECTION Z-Z

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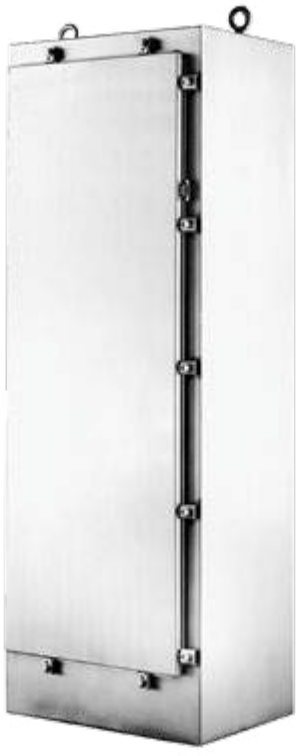
FREE-STAND, TYPE 4X



APPLICATION

This single-door enclosure provides industry-leading protection for systems incorporating large components or complex mounting configurations in highly corrosive environments. The addition of 19-in. rack-mounting accessories makes these enclosures ideal for providing rugged protection for sensitive rack-mounted components in harsh industrial environments. The enclosure is typically used in food processing plants, pharmaceutical manufacturing facilities, petrochemical plants and wastewater treatment facilities.

SPECIFICATIONS

- 12 gauge Type 304 or 316L stainless steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Mounting channels welded horizontally to interior body sides at top, bottom and center
- Panels and rack mounting angles can be mounted anywhere along channels
- Rolled lip around three sides of door and along top of enclosure opening excludes liquids and contaminants
- Stainless steel door clamps on three sides of door assure water-tight seal
- Heavy-gauge stainless steel continuous hinge
- Stainless steel hinge pin
- Stainless steel hasp and staple provided for padlocking
- Data pocket is high-impact thermoplastic
- Heavy-duty lifting eyes are Type 316L stainless steel
- Oil-resistant door gasket
- Bonding provision on door; grounding stud on body
- Accessory mounting channel provided in enclosure top

FINISH

Enclosures are unpainted. Front, sides, top and back have smooth #4 brushed finish. Optional steel panels, swing-out panels, side-mounted panels, rack-mounting frames, heavy-duty panel supports and center panel supports are painted white. Optional full, half and side-mounted conductive panels are available.

ACCESSORIES

Clamping Nut Package, page 1408
Drip Shield Kit for Type 12 Enclosures, page 1372
PANELITE Enclosure Lights, page 1393

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4SL

INDUSTRY STANDARDS

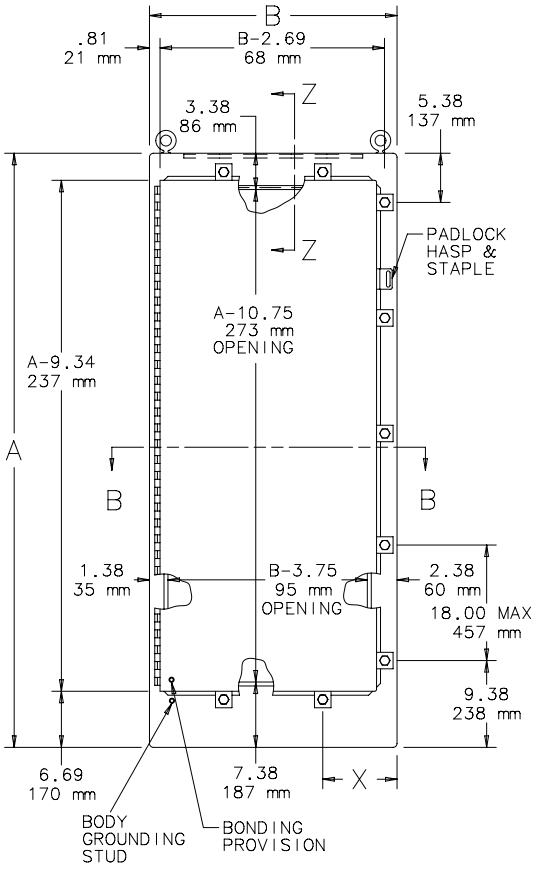
UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

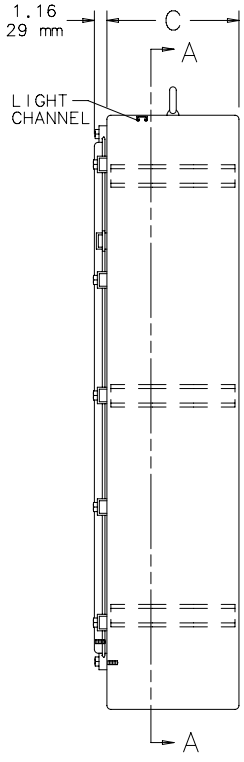
NEMA Type 3, 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
E.I.A. RS-310-D
IEC 60529, IP66
Meets NEMA Type 3RX requirements

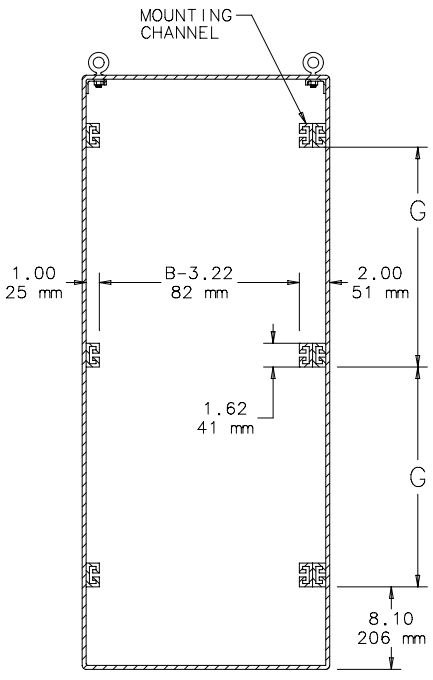
Standard Products

Catalog Number	AxBxC in./mm	Stainless Steel Type	X in./mm	G in./mm
A72H2518SSFS	72.06 x 25.06 x 18.06 1830 x 637 x 459	304	6.38 162	29.12 740
A72H2518SS6FS	72.06 x 25.06 x 18.06 1830 x 637 x 459	316L	6.38 162	29.12 740
A72H3124SSFS	72.06 x 31.06 x 24.06 1830 x 789 x 611	304	8.38 213	29.12 740
A72H3124SS6FS	72.06 x 31.06 x 24.06 1830 x 789 x 611	316L	8.38 213	29.12 740
A72H3724SSFS	72.06 x 37.06 x 24.06 1830 x 941 x 611	304	10.38 264	29.12 740
A72H3724SS6FS	72.06 x 37.06 x 24.06 1830 x 941 x 611	316L	10.38 264	29.12 740

Purchase panels and accessories separately.

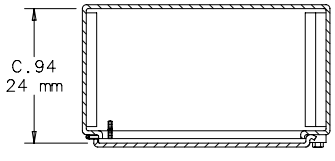




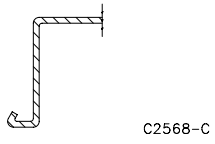


SECTION A–A

NOTE: 1. Maximum spacing between clamps is 18.00 (457mm). See General Accessories chapter for section views A-A and B-B showing accessories.
2. Removable data pocket is 12.00 x 12.00 (305mm x 305mm).



SECTION B–B



SECTION Z–Z

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FREE-STAND SINGLE AND DUAL ACCESS WITH 3-POINT LATCHES, TYPE 4X

SPECIFICATIONS

- 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Two-door enclosures provided with a removeable centerpost for easy panel installation
- Heavy-duty lifting eyes are Type 316L stainless steel
- Heavy-duty three-point latching mechanism operated by Type 316L stainless steel POWERGLIDE padlocking handle
- Seemless foam-in-place gasket assures a water-tight and dust-tight seal
- Body flange trough collar excludes liquids and contaminants
- Heavy-gauge continuous hinges support each door
- High-impact thermoplastic data pocket provided with each enclosure
- Mounting channels welded horizontally to interior body sides at top, bottom and center
- Optional panels and rack mounting angles can be mounted anywhere along channels
- Bonding provision on door; grounding stud on body
- Accessory mounting channel provided in enclosure top

To meet GR-63-CORE Zone 4 seismic standards, Free-Stand enclosures must include the following accessories (purchased separately):

For Seismic Free-Stand with Panel
- Seismic Mounting Plate Kit
- Seismic Panel Mounting Kit
- Panel, Full-Length

For Seismic Free-Stand with Rack Angles
- Seismic Mounting Plate Kit
- Rack Mounting Angles - L-Style (Type RP), Full

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
E.I.A. RS-310-D
IEC 60529, IP66
Meets NEMA Type 3RX requirements

Applicable industry standards for enclosures with Seismic Accessories:
NEBS- Telcordia GR-63-CORE Zone 4, tested with 1000 lbs. evenly distributed
OSHPD Pre-Approval OPM-0247-13

APPLICATION

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil and water. These enclosures are used in machine tool applications for housing motor starters, drives, contactors and PLCs, as well as a wide variety of other electrical and electronic equipment. The addition of 19-in. rack-mounting accessories makes these enclosures ideal for providing rugged protection for sensitive rack-mounted components in harsh industrial environments. These enclosures are used extensively in automotive, pulp and paper, wood products, textile and similar industries.

Four styles are available to provide maximum flexibility:
1. One-Door Single-Access Enclosures (single door on front)
2. One-Door Dual-Access Enclosures (single door on front and rear)
3. Two-Door Single-Access Enclosures (doors close on a removeable centerpost)
4. Two-Door Dual-Access Enclosures (doors close on a removeable centerpost on front and rear)

FINISH

Enclosures are unpainted. Cover, sides, top and bottom have smooth #4 brushed finish. Optional steel panels, swing-out panels, side-mounted panels, rack-mounting frames, heavy-duty panel supports and center panel supports are white. Optional full, half and side-mounted conductive panels are available.

ACCESSORIES

Clamping Nut Package, page 1408
Floor Stand Kit, Stainless Steel, page 241
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Rack Mounting Angles - L-Style (Type RP), page 1446
Seismic Mounting Plate Kits, page 1445
Seismic Panel Mounting Kits, page 1445

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

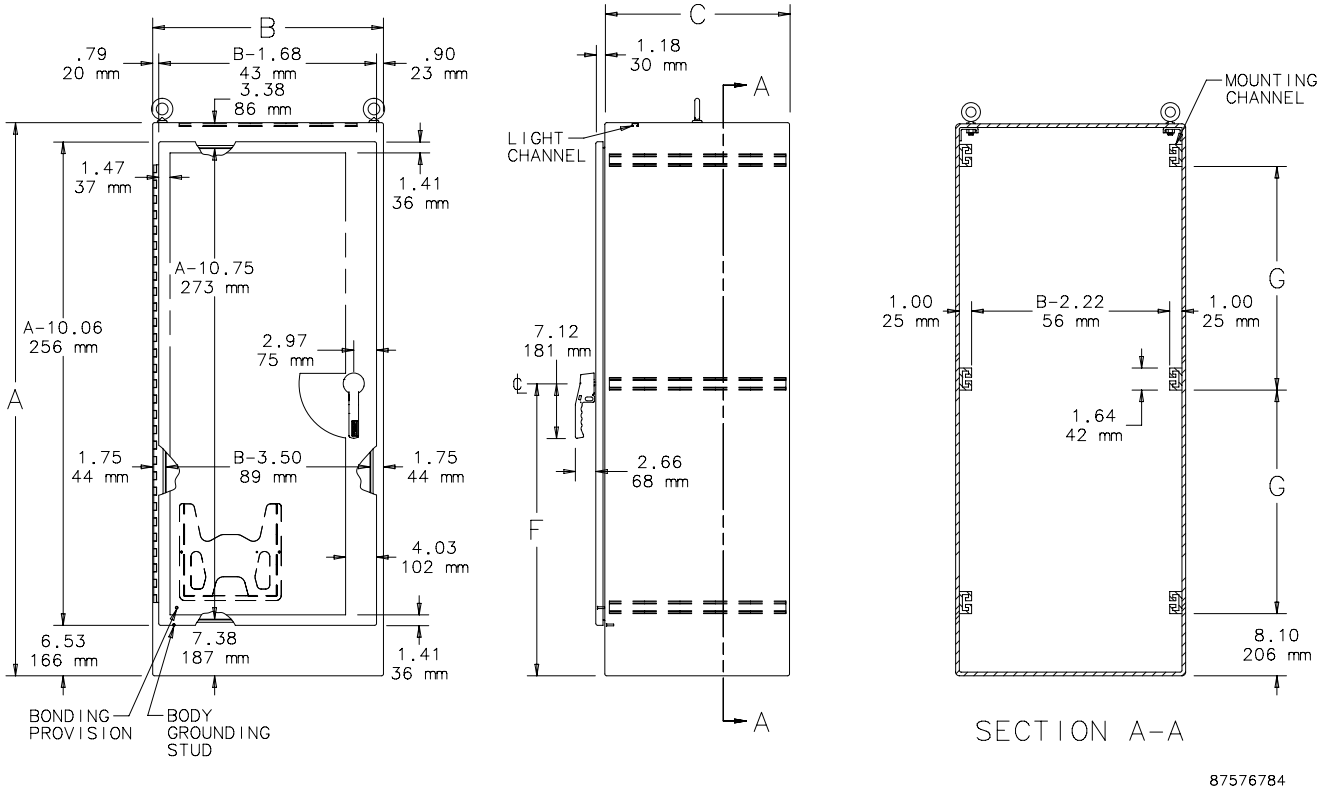
BULLETIN: A30S4

Standard Product **One-Door Single-Access**

Catalog Number	AxBxC in./mm	F in./mm	G in./mm
A602418SSFSN4	60.06 x 24.06 x 18.06 1526 x 611 x 459	32.03 814	23.12 587
A722418SSFSN4	72.06 x 24.06 x 18.06 1830 x 611 x 459	38.03 966	29.12 740
A723018SSFSN4	72.06 x 30.06 x 18.06 1830 x 764 x 459	38.03 966	29.12 740
A723618SSFSN4	72.06 x 36.06 x 18.06 1830 x 916 x 459	38.03 966	29.12 740
A902420SSFSN4	90.06 x 24.06 x 20.06 2288 x 611 x 510	47.03 1195	38.12 968
A903620SSFSN4	90.06 x 36.06 x 20.06 2288 x 916 x 510	47.03 1195	38.12 968
A603624SSFSN4	60.06 x 36.06 x 24.06 1526 x 916 x 611	32.03 814	23.12 587
A722424SSFSN4	72.06 x 24.06 x 24.06 1830 x 611 x 611	38.03 966	29.12 740
A723024SSFSN4	72.06 x 30.06 x 24.06 1830 x 764 x 611	38.03 966	29.12 740
A723624SSFSN4	72.06 x 36.06 x 24.06 1830 x 916 x 611	38.03 966	29.12 740
A903624SSFSN4	90.06 x 36.06 x 24.06 2288 x 916 x 611	47.03 1195	38.12 968
A723630SSFSN4	72.06 x 36.06 x 30.06 1830 x 916 x 764	38.03 966	29.12 740
A723636SSFSN4	72.06 x 36.06 x 36.06 1830 x 916 x 916	38.03 966	29.12 740
A903636SSFSN4	90.06 x 36.06 x 36.06 2288 x 916 x 916	47.03 1195	38.12 968

Purchase panels and accessories separately.

Seismic accessories are available for one-door enclosures.



NOTES: 1. Four lifting eyes are furnished if C=30.06 (764mm) or more.
2. See General Accessories chapter for section views A-A and B-B showing accessories.
3. Removable 12.00 x 12.00 (305mm x 305mm) data pocket.

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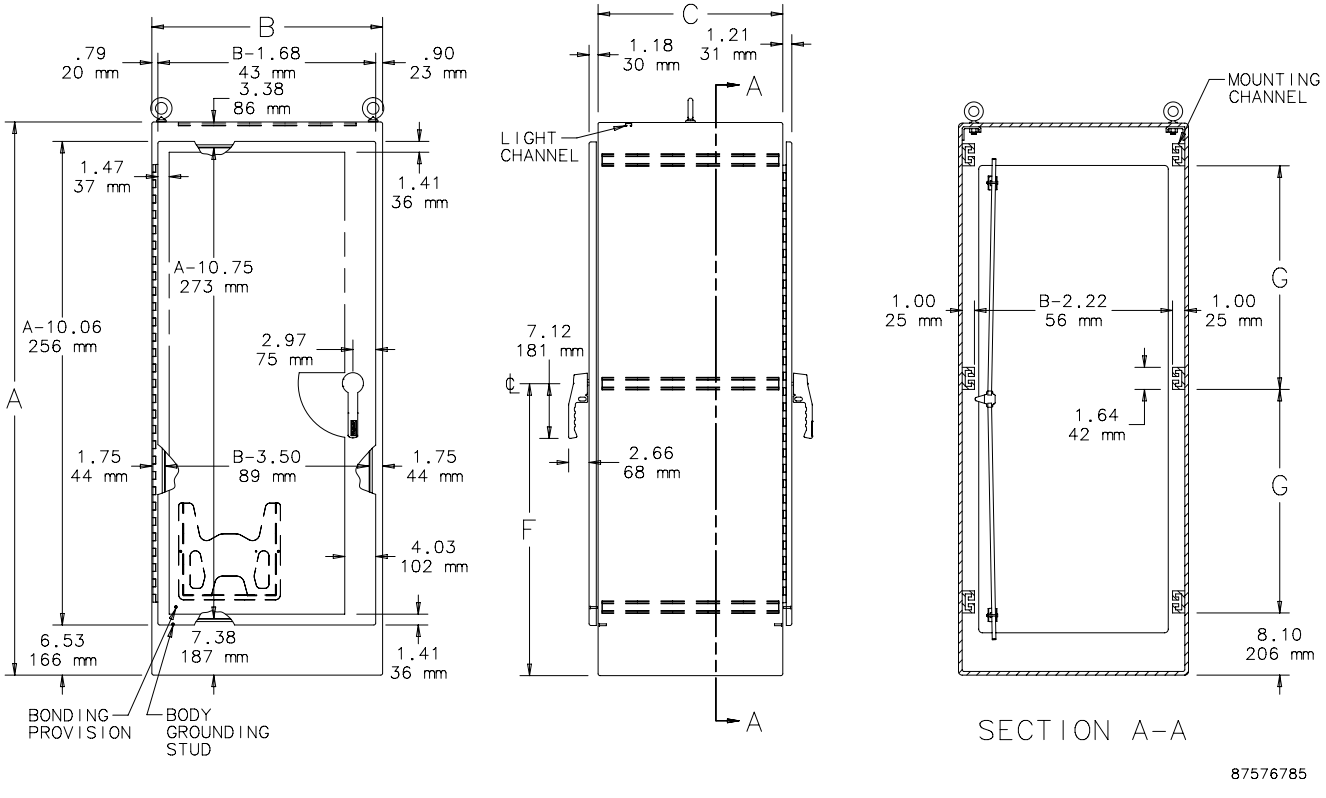
Standard Product **One-Door Dual-Access**

Catalog Number	AxBxC in./mm	F in./mm	G in./mm
A722424SSFSDAN4	72.06 x 24.06 x 24.06 1830 x 611 x 611	38.03 966	29.12 740
A723024SSFSDAN4	72.06 x 30.06 x 24.06 1830 x 764 x 611	38.03 966	29.12 740
A723624SSFSDAN4	72.06 x 36.06 x 24.06 1830 x 916 x 611	38.03 966	29.12 740
A903624SSFSDAN4	90.06 x 36.06 x 24.06 2288 x 916 x 611	47.03 1195	38.12 968
A722430SSFSDAN4	72.06 x 24.06 x 30.06 1830 x 611 x 764	38.03 966	29.12 740
A722436SSFSDAN4	72.06 x 24.06 x 36.06 1830 x 611 x 916	38.03 966	29.12 740
A723636SSFSDAN4	72.06 x 36.06 x 36.06 1830 x 916 x 916	38.03 966	29.12 740
A903636SSFSDAN4	90.06 x 36.06 x 36.06 2288 x 916 x 916	47.03 1195	38.12 968

Purchase panels and accessories separately.

Seismic accessories are available for one-door enclosures.



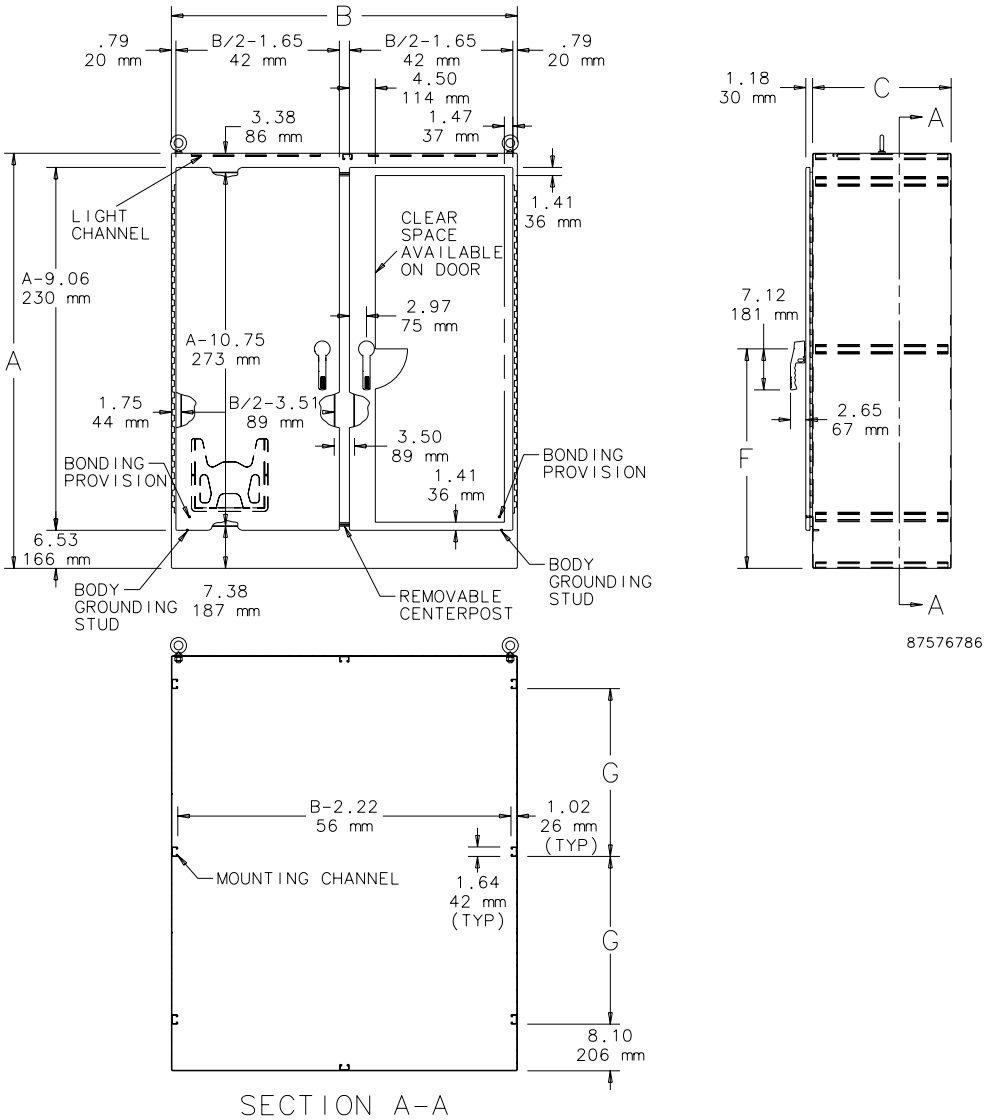
NOTES:
1. Four lifting eyes are furnished if C=30.06 (764mm) or more.
2. See General Accessories chapter for section views A-A and B-B showing accessories.
3. Removable 12.00 x 12.00 (305mm x 305mm) data pocket.

Standard Product **Two-Door Single-Access**

Catalog Number	AxBxC in./mm	F in./mm	G in./mm
A604818SSFSDN4	60.06 x 48.06 x 18.06 1526 x 1221 x 459	32.03 814	23.12 587
A724818SSFSDN4	72.06 x 48.06 x 18.06 1830 x 1221 x 459	38.03 966	29.12 740
A726018SSFSDN4	72.06 x 60.06 x 18.06 1830 x 1526 x 459	38.03 966	29.12 740
A727218SSFSDN4	72.06 x 72.06 x 18.06 1830 x 1830 x 459	38.03 966	29.12 740
A904820SSFSDN4	90.06 x 48.06 x 20.06 2288 x 1221 x 510	47.03 1195	38.12 968
A907220SSFSDN4	90.06 x 72.06 x 20.06 2288 x 1830 x 510	47.03 1195	38.12 968
A724824SSFSDN4	72.06 x 48.06 x 24.06 1830 x 1221 x 611	38.03 966	29.12 740
A726024SSFSDN4	72.06 x 60.06 x 24.06 1830 x 1526 x 611	38.03 966	29.12 740
A727224SSFSDN4	72.06 x 72.06 x 24.06 1830 x 1830 x 611	38.03 966	29.12 740
A907224SSFSDN4	90.06 x 72.06 x 24.06 2288 x 1830 x 611	47.03 1195	38.12 968
A726036SSFSDN4	72.06 x 60.06 x 36.06 1830 x 1526 x 916	38.03 966	29.12 740
A907236SSFSDN4	90.06 x 72.06 x 36.06 2288 x 1830 x 916	47.03 1195	38.12 968

Purchase panels and accessories separately.

Seismic accessories are not applicable for two-door enclosures.



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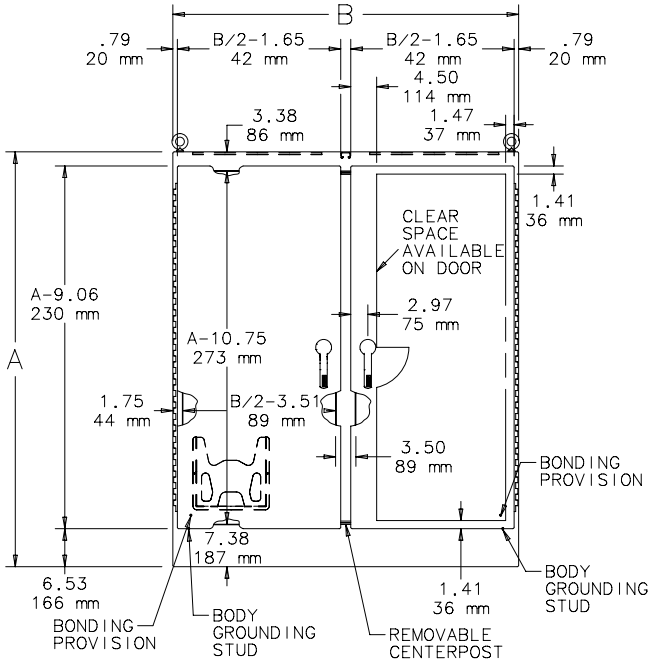
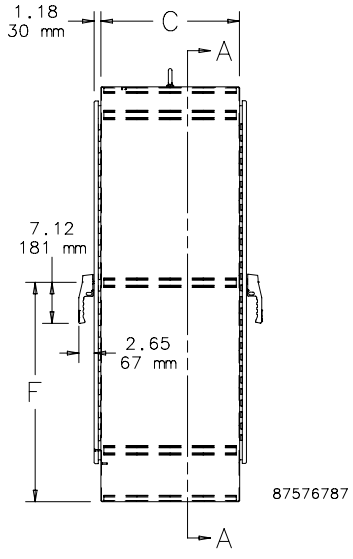
Standard Product **Two-Door Dual-Access**

Catalog Number	AxBxC in./mm	F in./mm	G in./mm
A724824SSFSDADN4	72.06 x 48.06 x 24.06 1830 x 1221 x 611	38.03 966	29.12 740
A726024SSFSDADN4	72.06 x 60.06 x 24.06 1830 x 1526 x 611	38.03 966	29.12 740
A727224SSFSDADN4	72.06 x 72.06 x 24.06 1830 x 1830 x 611	38.03 966	29.12 740
A907224SSFSDADN4	90.06 x 72.06 x 24.06 2288 x 1830 x 611	47.03 1195	38.12 968
A726036SSFSDADN4	72.06 x 60.06 x 36.06 1830 x 1526 x 916	38.03 966	29.12 740

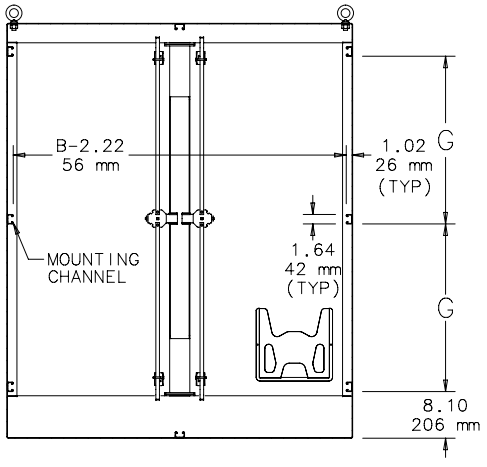
Purchase panels and accessories separately.

Seismic accessories are not applicable for two-door enclosures.





NOTES:
1. Four lifting eyes are furnished if C=30.06 (764mm) or more.
2. See General Accessories chapter for section views A-A and B-B showing accessories.
3. Removable 12.00 x 12.00 (305mm x 305mm) data pocket.



SECTION A-A

Notes

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FREE-STAND, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
E.I.A. RS-310-D
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil and water. These enclosures are used in machine tool applications for housing motor starters, drives, contactors and PLCs, as well as a wide variety of other electrical and electronic equipment. The addition of 19-in. rack-mounting accessories makes these enclosures ideal for providing rugged protection for sensitive rack-mounted components in harsh industrial environments. These enclosures are used extensively in automotive, pulp and paper, wood products, textile and similar industries.

SPECIFICATIONS

- 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Stiffeners welded to back of enclosures maintain flatness and increase rigidity
- Heavy-duty lifting eyes are Type 316 stainless steel
- Plated steel 3-point latching and keylocking handle
- Heavy-gauge continuous hinges support each door
- Data pocket, provided on door(s) with 3-point latches, is high-impact thermoplastic
- Mounting channels welded horizontally to interior body sides at top, bottom and center
- Optional panels and rack-mounting angles can be mounted anywhere along channels
- Oil-resistant door gasket attached with oil-resistant adhesive and held in place with steel retaining strips
- Bonding provision on door; grounding studs on body
- Accessory mounting channel provided in enclosure top

FINISH

Enclosures are unpainted. Cover, sides, top and bottom have smooth #4 brushed finish. Optional steel panels, swing-out panels, side-mounted panels, rack-mounting frames, heavy-duty panel supports and center panel supports are painted white. Optional full, half and side-mounted conductive panels are available.

ACCESSORIES

Electrical Interlocks, page 1390
Floor Stand Kit, Stainless Steel, page 241
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334

MODIFICATION AND CUSTOMIZATION

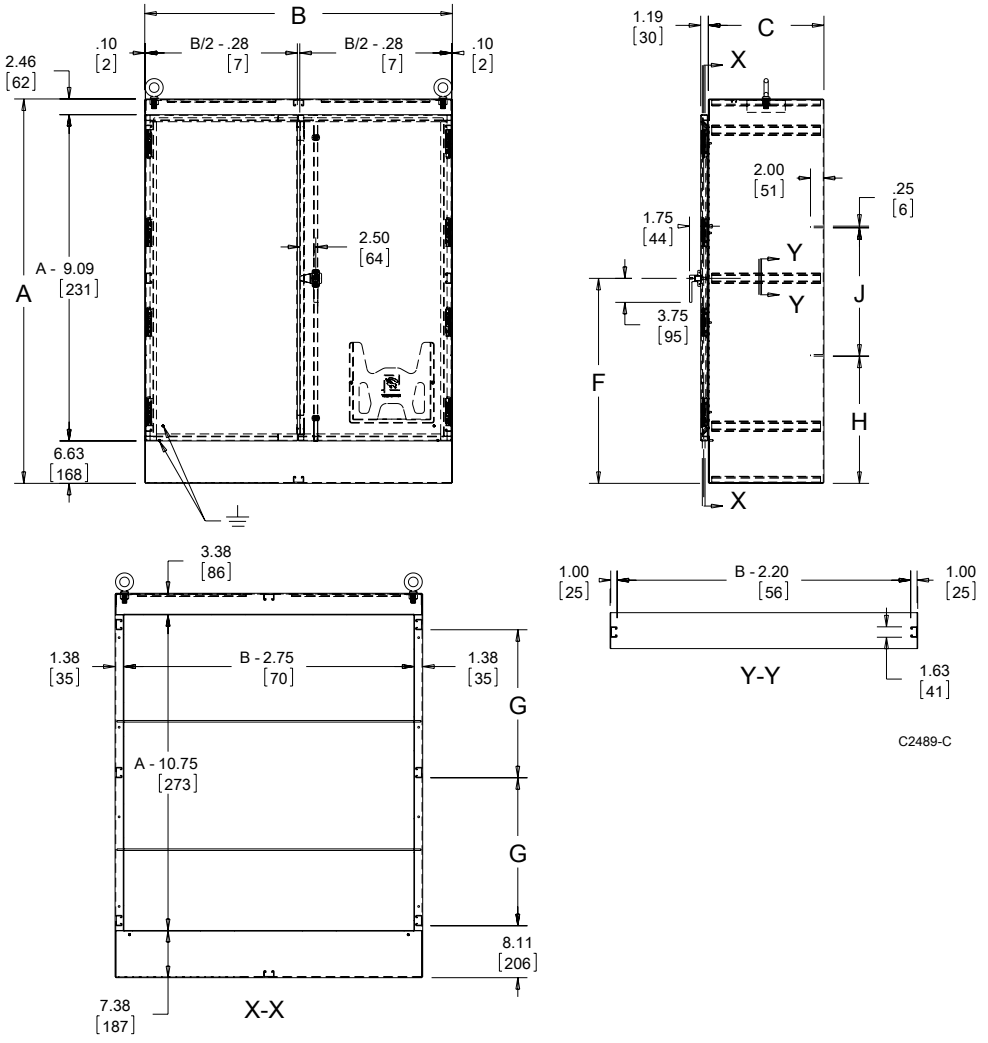
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A30S

Standard Product

Catalog Number	AxBxC in./mm	F in./mm	G in./mm	H in./mm	J in./mm
A604818SSFSD	60.06 x 48.06 x 18.06 1526 x 1221 x 472	32.03 814	23.12 587	19.88 505	20.03 509
A724818SSFSD	72.06 x 48.06 x 18.06 1830 x 1221 x 472	38.03 966	29.12 740	23.88 607	24.03 610
A724824SSFSD	72.06 x 48.06 x 24.06 1830 x 1221 x 611	38.03 966	29.12 740	23.88 607	24.03 610
A726018SSFSD	72.06 x 60.06 x 18.06 1830 x 1526 x 472	38.03 966	29.12 740	23.88 607	24.03 610
A726024SSFSD	72.06 x 60.06 x 24.06 1830 x 1526 x 611	38.03 966	29.12 740	23.88 607	23.88 607
A726036SSFSD	72.06 x 60.06 x 36.06 1830 x 1526 x 916	38.03 966	29.12 740	23.88 607	24.03 610
A727218SSFSD	72.06 x 72.06 x 18.06 1830 x 1830 x 472	38.03 966	29.12 740	23.88 607	24.03 610
A727224SSFSD	72.06 x 72.06 x 24.06 1830 x 1830 x 611	38.03 966	29.12 740	23.88 607	24.03 610
A904820SSFSD	90.06 x 48.06 x 20.06 2288 x 1221 x 510	47.03 1195	38.12 968	29.88 759	30.03 763
A907220SSFSD	90.06 x 72.06 x 20.06 2288 x 1830 x 510	47.03 1195	38.12 968	29.88 759	30.03 763
A907224SSFSD	90.06 x 72.06 x 24.06 2288 x 1830 x 611	47.03 1195	38.12 968	29.88 759	30.03 763
A907236SSFSD	90.06 x 72.06 x 36.06 2288 x 1830 x 916	47.03 47.03	38.12 968	29.88 759	30.03 763

Purchase panels and accessories separately.



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FREE-STAND ACCESSORIES SELECTION GUIDE

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

2

PANELS

Catalog Number				Single-Door Single-Access Enclosures												Single-Door Dual-Access Enclosures							
Steel	Conductive	Description	Panel Size	A60241 8SSFSN4	A72241 8SSFSN4	A72301 8SSFSN4	A72361 8SSFSN4	A90242 0SSFSN4	A90362 0SSFSN4	A60362 4SSFSN4	A72242 4SSFSN4	A72302 4SSFSN4	A72362 4SSFSN4	A90362 4SSFSN4	A72363 0SSFSN4	A90363 6SSFSN4	A72242 4SSFDAN4	A72302 4SSFDAN4	A72362 4SSFDAN4	A90362 4SSFDAN4	A72243 0SSFDAN4	A72242 6SSFDAN4	A72363 6SSFDAN4	A90363 6SSFDAN4
A60P24F1	A60P24F1G	Full Panel	48.00 x 20.00 (1219 x 508)	•	•[a]			•[a]			•[a]						•[a]				•[a]	•[a]		
A60P24F2	A60P24F2G	Half Panel	24.88 x 20.00 (632 x 508)	•	•[a]			•[a]			•[a]						•[a]				•[a]	•[a]		
A72P24F1	A72P24F1G	Full Panel	60.00 x 20.00 (1524 x 508)		•			•[a]			•						•				•	•		
A72P24F2	A72P24F2G	Half Panel	30.88 x 20.00 (784 x 508)	•[a]	•			•[a]			•						•				•	•		
A90P24F1	A90P24F1G	Full Panel	78.00 x 20.00 (1981 x 508)					•																
A90P24F2	A90P24F2G	Half Panel	39.00 x 20.00 (1013 x 508)	•[a]	•[a]			•			•[a]						•[a]				•[a]	•[a]		
A72P30F1	A72P30F1G	Full Panel	60.00 x 26.00 (1524 x 660)			•						•						•						
A72P30F2	A72P30F2G	Half Panel	30.88 x 26.00 (784 x 660)			•						•						•						
A60P36F1	A60P36F1G	Full Panel	48.00 x 32.00 (1219 x 813)				•[a]		•[a]	•			•[a]	•[a]	•[a]	•[a]	•[a]			•[a]	•[a]			•[a]	
A60P36F2	A60P36F2G	Half Panel	24.88 x 32.00 (632 x 813)				•[a]		•[a]	•			•[a]	•[a]	•[a]	•[a]	•[a]			•[a]	•[a]			•[a]	
A72P36F1	A72P36F1G	Full Panel	60.00 x 32.00 (1524 x 813)				•						•	•[a]	•	•	•[a]			•	•[a]			•	
A72P36F2	A72P36F2G	Half Panel	30.88 x 32.00 (784 x 813)				•	•[a]	•[a]	•[a]			•	•[a]	•	•	•[a]			•	•[a]			•	
A90P36F1	A90P36F1G	Full Panel	78.00 x 32.00 (1981 x 813)						•					•		•					•			•
A90P36F2	A90P36F2G	Half Panel	39.88 x 32.00 (1013 x 813)				•[a]		•	•[a]			•[a]	•	•[a]	•[a]	•[a]			•[a]	•			•[a]	•

SWING-OUT PANELS

Catalog Number	Description	Panel Size																					
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)		•						•						•				•	•		
A72SP24F4	Half Panel[c]	30.88 x 18.81 (784 x 478)		•						•						•				•	•		
A72SP30F3	Full Panel	60.00 x 24.81 (1524 x 630)			•						•							•						
A72SP30F4	Half Panel[c]	30.88 x 24.81 (784 x 630)			•						•							•						
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)				•						•		•	•				•				•	
A72SP36F4	Half Panel[c]	30.88 x 30.81 (784 x 783)				•						•		•	•	•			•				•	
A90SP36F3	Full Panel	78.00 x 30.81 (1981 x 783)					•						•			•					•			•
A90SP36F4	Half Panel[c]	39.88 x 30.81 (1013 x 783)					•						•			•					•			•

SIDE-MOUNT PANELS

Catalog Number																								
Steel	Conductive	Description	Panel Size																					
A60SMP14	A60SMP14G	14 Wide Panel (356)	48.00 x 14.00 (1219 x 356)	•						•														
A72SMP14	A72SMP14G	14 Wide Panel (356)	60.00 x 14.00 (1524 x 356)		•	•	•				•	•	•		•	•		•	•		•	•	•	
A90SMP14	A90SMP14G	14 Wide Panel (356)	78.00 x 14.00 (1981 x 356)					•	•					•			•				•			•
A72SMP20	A72SMP20G	20 Wide Panel (508)	60.00 x 20.00 (1524 x 508)								•	•	•		•	•		•	•		•	•	•	
A90SMP20	A90SMP20G	20 Wide Panel (508)	78.00 x 20.00 (1981 x 508)											•							•			•

HEAVY DUTY PANEL SUPPORTS

Catalog Number	Description	Panel Size																					
A60FSHDPS	2 Full-Length	57.25 (1454)	•						•[a]														
A72FSHDPS	Panel	69.25 (1759)		•	•	•				•	•	•		•	•		•	•		•	•	•	
A90FSHDPS	Supports	87.25 (2216)					•	•					•			•					•			•

Millimeter dimensions are in ( ).

a Requires heavy duty panel supports
c Fits in top half or bottom half of enclosure

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

PANELS

Catalog Number				Two-Door Single-Access Enclosures											
Steel	Conductive	Description	Panel Size	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A60P24F1	A60P24F1G	Full Panel	48.00 x 20.00 (1219 x 508)	●b	●a,b			●a,b		●a,b					
A60P24F2	A60P24F2G	Half Panel	24.88 x 20.00 (632 x 508)	●b	●a,b			●a,b		●a,b					
A72P24F1	A72P24F1G	Full Panel	60.00 x 20.00 (1524 x 508)		●b			●a,b		●b					
A72P24F2	A72P24F2G	Half Panel	30.88 x 20.00 (784 x 508)	●a,b	●b			●a,b		●b					
A90P24F1	A90P24F1G	Full Panel	78.00 x 20.00 (1981 x 508)					●b							
A90P24F2	A90P24F2G	Half Panel	39.00 x 20.00 (1013 x 508)	●a,b	●a,b			●b		●a,b					
A72P30F1	A72P30F1G	Full Panel	60.00 x 26.00 (1524 x 660)			●b					●b			●b	
A72P30F2	A72P30F2G	Half Panel	30.88 x 26.00 (784 x 660)			●b					●b			●b	
A60P36F1	A60P36F1G	Full Panel	48.00 x 32.00 (1219 x 813)				●a,b		●a,b			●a,b	●a,b		●a,b
A60P36F2	A60P36F2G	Half Panel	24.88 x 32.00 (632 x 813)				●a,b		●a,b			●a,b	●a,b		●a,b
A72P36F1	A72P36F1G	Full Panel	60.00 x 32.00 (1524 x 813)				●b		●a,b			●b	●a,b		●a,b
A72P36F2	A72P36F2G	Half Panel	30.88 x 32.00 (784 x 813)				●b		●a,b			●b	●a,b		●a,b
A90P36F1	A90P36F1G	Full Panel	78.00 x 32.00 (1981 x 813)						●b				●b		●b
A90P36F2	A90P36F2G	Half Panel	39.88 x 32.00 (1013 x 813)				●a,b		●b			●a,b	●b		●b

SWING-OUT PANELS

Catalog Number	Description	Panel Size											
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)		●b					●b					
A72SP24F4	Half Panelc	30.88 x 18.81 (784 x 478)		●b					●b					
A72SP30F3	Full Panel	60.00 x 24.81 (1524 x 630)			●b					●b			●b	
A72SP30F4	Half Panelc	30.88 x 24.81 (784 x 630)			●b					●b			●b	
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)				●b						●b			
A72SP36F4	Half Panelc	30.88 x 30.81 (784 x 783)				●b						●b			
A90SP36F3	Full Panel	78.00 x 30.81 (1981 x 783)						●b					●b		●b
A90SP36F4	Half Panelc	39.88 x 30.81 (1013 x 783)						●b					●b		●b

SIDE-MOUNT PANELS

Catalog Number													
Steel	Conductive	Description	Panel Size											
A60SMP14	A60SMP14G	14 Wide Panel (356)	48.00 x 14.00 (1219 x 356)	●d											
A72SMP14	A72SMP14G	14 Wide Panel (356)	60.00 x 14.00 (1524 x 356)		●d	●d	●d			●	●	●		●	
A90SMP14	A90SMP14G	14 Wide Panel (356)	78.00 x 14.00 (1981 x 356)					●	●				●		●
A72SMP20	A72SMP20G	20 Wide Panel (508)	60.00 x 20.00 (1524 x 508)							●d	●d	●d		●	
A90SMP20	A90SMP20G	20 Wide Panel (508)	78.00 x 20.00 (1981 x 508)										●d		●

HEAVY DUTY PANEL SUPPORTS

Catalog Number	Description	Panel Size											
A60FSHDPS	2 Full-Length	57.25 (1454)	●b											
A72FSHDPS	Panel	69.25 (1759)		●b	●b	●b			●b	●b	●b		●b	
A90FSHDPS	Supports	87.25 (2216)					●b	●b				●b		●b

Millimeter dimensions are in ( ).

a Requires heavy duty panel supports
b Requires center panel supports
c Fits in top half or bottom half of enclosure
d Will not fit if other panels are also installed in same enclosure

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TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

				Single-Door Single-Access Enclosures													Single-Door Dual-Access Enclosures							
				A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722436SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
PANELS																									
Catalog Number																									
Steel	**Conductive**	**Description**	**Panel Size**																						
A60P48F1	A60P48F1G	Full Panel	48.00 x 44.00 (1219 x 1118)																						
A72P48F1	A72P48F1G	Full Panel	60.00 x 44.00 (1524 x 1118)																						
A72P48F2	A72P48F2G	Half Panel	30.88 x 44.00 (784 x 1118)																						
A90P48F1	A90P48F1G	Full Panel	78.00 x 44.00 (1981 x 1118)																						
A90P48F2	A90P48F2G	Half Panel	39.88 x 44.00 (1013 x 1118)																						
A72P60F1	A72P60F1G	Full Panel	60.00 x 56.00 (1524 x 1422)																						
A72P60F2	A72P60F2G	Half Panel	30.88 x 56.00 (784 x 1422)																						
A72P72F1	A72P72F1G	Full Panel	60.00 x 68.00 (1524 x 1727)																						
A72P72F2	A72P72F2G	Half Panel	30.88 x 68.00 (784 x 1727)																						
A90P72F1	A90P72F1G	Full Panel	78.00 x 68.00 (1981 x 1727)																						
A90P72F2	A90P72F2G	Half Panel	39.88 x 68.00 (1013 x 1727)																						

CENTER PANEL SUPPORTS

Catalog Number	Description
A60FSCPS	Center Panel Support
A72FSCPS	Center Panel Support
A90FSCPS	Center Panel Support

CLAMPING NUTS

Catalog Number	Description
APS1420CN	1/4-20 Clamping Nut (Qty. 20) for Special Use
APS51616CN	1/4-18 Clamping Nut (Qty. 20) for Special Use

CASTERS

Catalog Number	Description	Size
DMCKC	Set of 4 Casters	4 high x 3 diameter

RACK MOUNTING ANGLES L-STYLE (TYPE RP) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length	A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722436SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
A60RP24F5	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•	•			•			•							•				•	•		
A60RP24F6	2 Half-Length Angles	19 (483)	15	26.25 (677)	•																					
A72RP24F5	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•			•			•							•				•	•		
A72RP24F6	2 Half-Length Angles	19 (483)	18	31.50 (800)	•	•						•							•				•	•		
A90RP24F5	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•																	
A90RP24F6	2 Half-Length Angles	19 (483)	23	40.25 (1022)	•	•			•			•							•				•	•		
A72RP30F5	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•						•							•						
A72RP30F6	2 Half-Length Angles	24 (610)	18	31.50 (800)			•						•							•						

Millimeter dimensions are in ( ).

[d] Will not fit if other panels are also installed in same enclosure

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

PANELS

Catalog Number				Two-Door Single-Access Enclosures											
Steel	Conductive	Description	Panel Size	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A60P48F1	A60P48F1G	Full Panel	48.00 x 44.00 (1219 x 1118)	•	•[a]			•[a]		•[a]					
A72P48F1	A72P48F1G	Full Panel	60.00 x 44.00 (1524 x 1118)		•			•[a]		•					
A72P48F2	A72P48F2G	Half Panel	30.88 x 44.00 (784 x 1118)	•[a]	•			•[a]		•					
A90P48F1	A90P48F1G	Full Panel	78.00 x 44.00 (1981 x 1118)					•							
A90P48F2	A90P48F2G	Half Panel	39.88 x 44.00 (1013 x 1118)		•[a]			•		•[a]					
A72P60F1	A72P60F1G	Full Panel	60.00 x 56.00 (1524 x 1422)			•					•			•	
A72P60F2	A72P60F2G	Half Panel	30.88 x 56.00 (784 x 1422)			•					•			•	
A72P72F1	A72P72F1G	Full Panel	60.00 x 68.00 (1524 x 1727)				•		•[a]			•	•[a]		•[a]
A72P72F2	A72P72F2G	Half Panel	30.88 x 68.00 (784 x 1727)				•		•[a]			•	•[a]		•[a]
A90P72F1	A90P72F1G	Full Panel	78.00 x 68.00 (1981 x 1727)						•				•		•
A90P72F2	A90P72F2G	Half Panel	39.88 x 68.00 (1013 x 1727)				•[a]		•			•[a]	•		•

CENTER PANEL SUPPORTS

Catalog Number	Description											
A60FSCPS	Center Panel Support	•										
A72FSCPS	Center Panel Support		•	•	•			•	•	•		•	
A90FSCPS	Center Panel Support					•	•				•		•

CLAMPING NUTS

Catalog Number	Description											
APS1420CN	1/4-20 Clamping Nut (Qty. 20) for Special Use	•	•	•	•	•	•	•	•	•	•	•
APS51616CN	1/4-18 Clamping Nut (Qty. 20) for Special Use	•	•	•	•	•	•	•	•	•	•	•

CASTERS

Catalog Number	Description	Size											
DMCKC	Set of 4 Casters	4 high x 3 diameter	•	•	•	•	•	•	•	•	•	•	•	•

RACK MOUNTING ANGLES L-STYLE (TYPE RP) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length											
A60RP24F5	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•[b]	•[b]			•[b]		•[b]					
A60RP24F6	2 Half-Length Angles	19 (483)	15	26.25 (677)	•[b]											
A72RP24F5	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•[b]			•[b]		•[b]					
A72RP24F6	2 Half-Length Angles	19 (483)	18	31.50 (800)	•[b]	•[b]					•[b]					
A90RP24F5	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•[b]							
A90RP24F6	2 Half-Length Angles	19 (483)	23	40.25 (1022)	•[b]	•[b]			•[b]		•[b]					
A72RP30F5	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•[b]					•[b]		•[b]		
A72RP30F6	2 Half-Length Angles	24 (610)	18	31.50 (800)			•[b]					•[b]		•[b]		

Millimeter dimensions are in ( ).

[a] Requires heavy duty panel supports
[b] Requires center panel supports
[d] Will not fit if other panels are also installed in same enclosure

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length	Single-Door Single-Access Enclosures														Single-Door Dual-Access Enclosures							
					A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722436SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•	•			•			•							•				•	•		
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•			•			•							•				•	•		
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•																	
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•						•							•						

CLIP NUT PACKAGE

Catalog Number	Description	Size	Fits																							
AN1032	Clip Nut (Pkg of 20)	#10-32 Zinc-Plated	RA Type Mnt Angles	•	•	•		•			•	•						•	•			•	•		

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog Number	Description	For Rack Size	No. Units[d]	Panel Space																						
A7230SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)			•						•							•						
A7236SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)				•						•		•	•				•				•	
A9036SOF19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)						•					•			•				•				•

Millimeter dimensions are in ( ).

[d] 1 unit = 1.75 in. (44 mm)

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length	Two-Door Single-Access Enclosures											
					A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•[b]	•[b]			•[b]		•[b]					
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•[b]			•[b]		•[b]					
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•[b]							
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•[b]					•[b]			•[b]	

CLIP NUT PACKAGE

Catalog Number	Description	Size	Fits
AN1032	Clip Nut (Pkg of 20)	#10-32 Zinc-Plated	RA Type Mnt Angles

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog Number	Description	For Rack Size	No. Units[d]	Panel Space
A7230SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A7236SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A9036SOF19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)

Millimeter dimensions are in ( ).

[b] Requires center panel support(s) for installation
[d] 1 unit = 1.75 in. (44 mm)

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length	Single-Door Single-Access Enclosures													Single-Door Dual-Access Enclosures							
					A60241 8SSFSN4	A72241 8SSFSN4	A72301 8SSFSN4	A72361 8SSFSN4	A90242 0SSFSN4	A90362 0SSFSN4	A60362 4SSFSN4	A72242 4SSFSN4	A72302 4SSFSN4	A72362 4SSFSN4	A90362 4SSFSN4	A72363 0SSFSN4	A72363 6SSFSN4	A90363 6SSFSN4	A72242 4SSFDAN4	A72302 4SSFDAN4	A72362 4SSFDAN4	A90362 4SSFDAN4	A72243 0SSFDAN4	A72363 6SSFDAN4	A72363 6SSFDAN4	A90363 6SSFDAN4
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•	•			•			•							•				•	•		
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•			•			•							•				•	•		
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•																	
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•						•							•						

CLIP NUT PACKAGE

Catalog Number	Description	Size	Fits
AN1032	Clip Nut (Pkg of 20)	#10-32 Zinc-Plated	RA Type Mnt Angles

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog Number	Description	For Rack Size	No. Units[d]	Panel Space
A7230SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A7236SOF19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)
A9036SOF19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)

WRITING SURFACES

Catalog Number	Description	Fits Drawer
A19WSDR	Hinged Surface	A19DR2U, A19DR4U
DL29WS	Hinged Surface	DL329DR, DL729DR

19- AND 24-IN. RACK-MOUNTED SHELVES

Catalog Number	Description	For Rack Size	Number of Units[d]
A19SHP6	Pull-Out Shelf	19 (483)	2
DL29SHP	Pull-Out Shelf	24 (610)	2
A19SH6	Fixed Shelf	19 (483)	1
DL29SH	Fixed Shelf	24 (610)	1

GUIDES FOR RACK-MOUNTED SHELVES

Catalog Number	Description	Number of Units[d]
AG1U6	Chassis Guides (2)	1
AG1U8	Chassis Guides (2)	1

Millimeter dimensions are in ( ).

[a] Requires 2 sets U-style (Type RA) rack mounting angles for installation
[d] 1 unit = 1.75 in. (44 mm)

TYPE 4X AND TYPE 12 FREE-STAND ENCLOSURES ACCESSORY SELECTION GUIDE

(See Accessories for Details)

RACK MOUNTING ANGLES U-STYLE (TYPE RA) FOR 19- AND 24-IN. EQUIPMENT

Catalog Number	Description	For Rack Size	No. Units[d]	Angle Length	Two-Door Single-Access Enclosures: A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A60RA19TH	2 Full-Length Angles	19 (483)	28	49.00 (1245)	•[b]	•[b]			•[b]		•[b]					
A72RA19TH	2 Full-Length Angles	19 (483)	35	61.25 (1556)		•[b]			•[b]		•[b]					
A90RA19TH	2 Full-Length Angles	19 (483)	45	78.75 (2000)					•[b]							
A72RA24TH	2 Full-Length Angles	24 (610)	35	61.25 (1556)			•[b]					•[b]			•[b]	

CLIP NUT PACKAGE

Catalog Number	Description	Size	Fits	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
AN1032	Clip Nut (Pkg of 20)	#10-32 Zinc-Plated	RA Type Mnt Angles	•	•	•		•		•	•			•	

19-IN. SWING-OUT RACK MOUNTING FRAMES

Catalog Number	Description	For Rack Size	No. Units[d]	Panel Space	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A7230S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)			•[b]					•[b]			•[b]	
A7236S0F19	Full Swing-Out Frame	19 (483)	33	57.88 (1470)				•[b]					•[b]			
A9036S0F19	Full Swing-Out Frame	19 (483)	43	75.36 (1915)						•[b]				•[b]		•[b]

WRITING SURFACES

Catalog Number	Description	Fits Drawer	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A19WSDR	Hinged Surface	A19DR2U, A19DR4U							•[a]					
DL29WS	Hinged Surface	DL329DR, DL729DR								•[a]			•[a]	

19- AND 24-IN. RACK-MOUNTED SHELVES

Catalog Number	Description	For Rack Size	Number of Units[d]	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
A19SHP6	Pull-Out Shelf	19 (483)	2							•[a]					
DL29SHP	Pull-Out Shelf	24 (610)	2								•[a]			•[a]	
A19SH6	Fixed Shelf	19 (483)	1							•[a]					
DL29SH	Fixed Shelf	24 (610)	1								•[a]			•[a]	

GUIDES FOR RACK-MOUNTED SHELVES

Catalog Number	Description	Number of Units[d]	A604818SSFSD	A724818SSFSD	A726018SSFSD	A727218SSFSD	A904820SSFSD	A907220SSFSD	A724824SSFSD	A726024SSFSD	A727224SSFSD	A907224SSFSD	A726036SSFSD	A907236SSFSD
AG1U6	Chassis Guides (2)	1							•[a]	•[a]			•[a]	
AG1U8	Chassis Guides (2)	1											•[a]	

Millimeter dimensions are in ( ).

[a] Requires 2 sets U-style (Type RA) rack mounting angles for installation
[b] Requires center panel support(s) for installation
[d] 1 unit = 1.75 in. (44 mm)

TYPE 4X AND TYPE 12 STAINLESS STEEL SEISMIC ACCESSORY SELECTION GUIDE

(For single-door enclosures only)

SEISMIC MOUNTING PLATE KITS

Catalog No.	Description	Anchor Size	Single-Door, Single Access Enclosures													Single-Door, Dual Access Enclosures							
			A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722426SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
ASMP12SS	Seismic Mounting Plate, SS, 1/2 in.	1/2 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ASMP58SS	Seismic Mounting Plate, SS, 5/8 in.	5/8 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ASMP34SS	Seismic Mounting Plate, SS, 3/4 in.	3/4 in.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

SEISMIC PANEL MOUNTING KITS

Catalog No.	Description	Fits Enclosure A in. (mm)	A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722426SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
ASPANKIT60	Seismic Panel Mounting Kit, 60 in.	60.00 (1524)	•						•															
ASPANKIT72	Seismic Panel Mounting Kit, 72 in.	72.00 (1829)		•	•	•				•	•	•		•	•		•	•	•		•	•	•	
ASPANKIT90	Seismic Panel Mounting Kit, 90 in.	90.00 (2286)					•	•					•			•				•				•

PANELS, FULL

Catalog Number				A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722426SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
Steel	Conductive	Panel Size in. (mm)	Fits Enclosure A x B in. (mm)																						
A60P24F1	A60P24F1G	48.00 x 20.00 (1219 x 508)	60.00 x 24.00 (1524 x 610)	•																					
A72P24F1	A72P24F1G	60.00 x 20.00 (1524 x 508)	72.00 x 24.00 (1829 x 610)		•						•						•				•	•		
A90P24F1	A90P24F1G	78.00 x 20.00 (1981 x 508)	90.00 x 24.00 (2286 x 610)					•																	
A72P30F1	A72P30F1G	60.00 x 26.00 (1524 x 660)	72.00 x 30.00 (1829 x 762)			•						•						•							
A60P36F1	A60P36F1G	48.00 x 32.00 (1219 x 813)	60.00 x 36.00 (1524 x 914)							•															
A72P36F1	A72P36F1G	60.00 x 32.00 (1524 x 813)	72.00 x 36.00 (1829 x 914)				•						•		•	•			•				•		
A90P36F1	A90P36F1G	78.00 x 32.00 (1981 x 813)	90.00 x 36.00 (2286 x 914)						•					•						•					•

RACK MOUNTING ANGLES, L-STYLE (TYPE RP), FULL LENGTH

Catalog No.	Fits Enclosure A x B in. (mm)	For Rack Size in. (mm)	A602418SSFSN4	A722418SSFSN4	A723018SSFSN4	A723618SSFSN4	A902420SSFSN4	A903620SSFSN4	A603624SSFSN4	A722424SSFSN4	A723024SSFSN4	A723624SSFSN4	A903624SSFSN4	A723630SSFSN4	A723636SSFSN4	A903636SSFSN4	A722424SSFSDAN4	A723024SSFSDAN4	A723624SSFSDAN4	A903624SSFSDAN4	A722430SSFSDAN4	A722426SSFSDAN4	A723636SSFSDAN4	A903636SSFSDAN4
A60RP24F5	60.00 x 24.00 (1524 x 610)	19.00 (483)	•																					
A72RP24F5	72.00 x 24.00 (1829 x 610)	19.00 (483)		•						•							•				•	•		
A72RP30F5	72.00 x 30.00 (1829 x 762)	24.00 (610)			•						•							•						
A90RP24F5	90.00 x 24.00 (2286 x 610)	19.00 (483)					•																	

Notes

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FS66S GLOBAL FREE-STAND SINGLE AND DUAL ACCESS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
E.I.A. RS-310-D
IEC 60529, IP66,
IEC 62208
Meets NEMA Type 3RX requirements

APPLICATION

These enclosures are used in harsh industrial environments to house large components such as motor starters, drives, contactors and PLCs as well as a wide range of other electrical and electric equipment. A modular interior rail system (PROLINE) provides an extensive range of mounting options. Whether your application calls for rack mounting, panel mounting or grid system mounting, a combination of PROLINE components can deliver the right solution for ultimate equipment mounting flexibility and convenience. Three-point latching and sealing provide industry-leading protection from dust, oil and water. The FS66S enclosures are used extensively in oil and gas, water/wastewater, petrochemical and power plant environments and offer a perfect solution to outdoor DCS applications.

Four styles are available to provide maximum flexibility:

1. One-Door Single-Access Enclosures (single door on front)
2. One-Door Dual-Access Enclosures (single door on front and rear)
3. Two-Door Single-Access Enclosures (doors close on a removable centerpost)
4. Two-Door Dual-Access Enclosures (doors close on a removable centerpost on front and rear)

Each style is also offered in 304 or 316L stainless steel, and can be manufactured as standard duty (14 gauge) and heavy duty (12 gauge).

SPECIFICATIONS

- Internal grid mounting system and PROLINE frame compatible for easy and fast panel installation
- Enclosure with contents to support Standard Duty 500Kg (1102 lb.) evenly distributed and Heavy Duty 1000Kg (2205 lb.) evenly distributed
- Uni-body design with seams continuously welded and ground smooth
- Two-door enclosures provided with a removable centerpost for easy panel installation
- Heavy-duty stainless steel lifting eyes
- Heavy-duty three-point latching mechanism operated by 316L stainless steel POWERGLIDE padlocking handle
- Seamless foam-in-place gasket assures a water-tight and dust-tight seal
- Body flange trough collar channels liquids and contaminants away from door opening and installed equipment
- Removable hidden hinges
- Built-in plinth base that allows for flexible cable entry
- Gland plate on the bottom offers cable entry options
- Painted or galvanized back panels can be rear-mounted in single-access enclosures and back-to-back in dual access enclosures
- Bonding provision on door

FINISH

Enclosures are unpainted. Cover, sides, top and bottom have smooth #4 brushed finish.

ACCESSORIES

Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Thermoplastic Data Pocket, page 1353
Full Subpanel, page 222
Stop Arm Kit, page 225

MODIFICATION AND CUSTOMIZATION

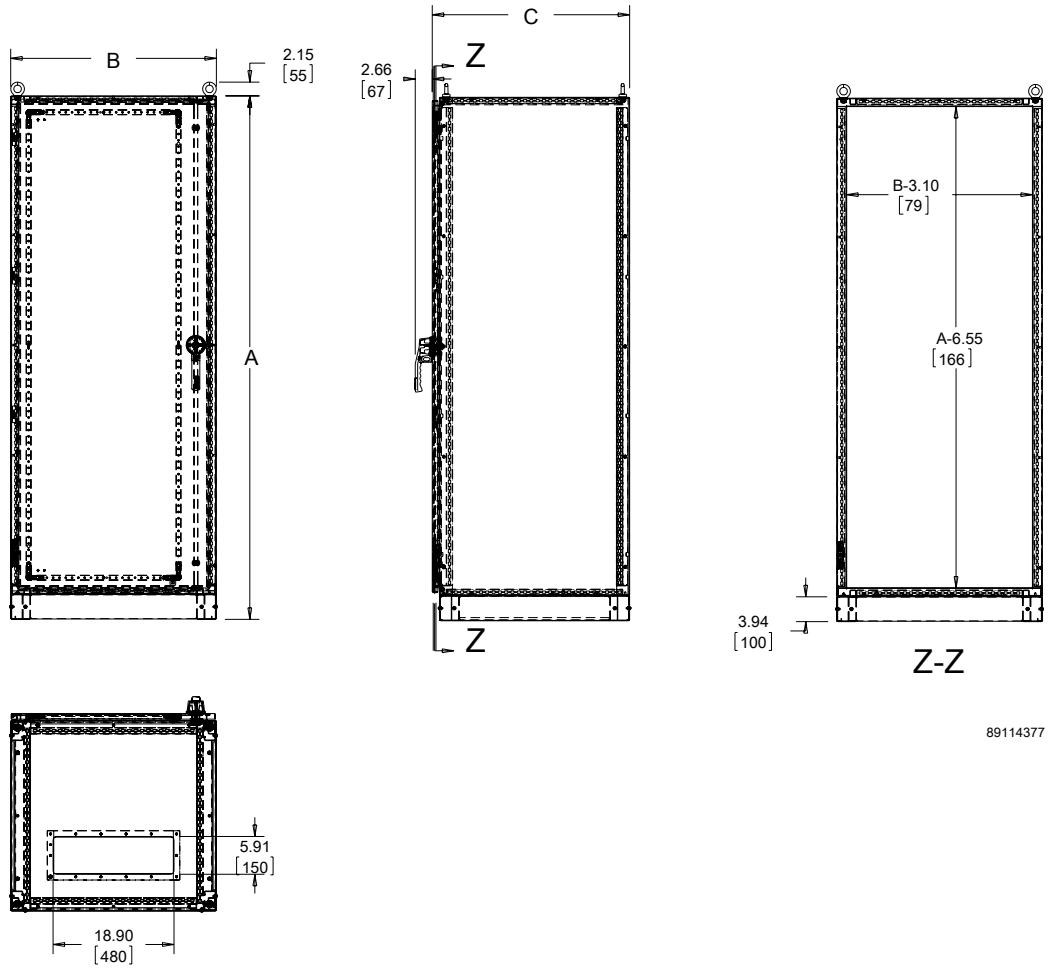
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: FS66S

Standard Product **One-Door, Single-Access Enclosures**

Catalog Number	Nominal AxBxCA x B x C	AxBxC in./mm	Stainless Steel Type	Gauge
FS180654SSP0	1800x600x500	73.92 x 24.26 x 19.03 1879 x 616 x 483	304	14
FS180654SHP0	1800x600x500	73.97 x 24.32 x 19.11 1879 x 618 x 485	304	12
FS180656SSP0	1800x600x500	73.92 x 24.26 x 19.03 1878 x 616 x 483	316L	14
FS180656SHP0	1800x600x500	73.97 x 24.32 x 19.11 1879 x 618 x 485	316L	12
FS181054SSP0	1800x1000x500	73.92 x 40.01 x 19.06 1878 x 1016 x 484	304	14
FS181054SHP0	1800x1000x500	73.97 x 40.06 x 19.11 1879 x 1018 x 485	304	12
FS181056SSP0	1800x1000x500	73.92 x 40.01 x 19.06 1878 x 1016 x 484	316L	14
FS181056SHP0	1800x1000x500	73.97 x 40.06 x 19.11 1879 x 1018 x 485	316L	12
FS200884SSP0	2000x800x800	81.79 x 32.14 x 30.84 2078 x 816 x 783	304	14
FS200884SHP0	2000x800x800	81.84 x 32.19 x 30.92 2079 x 818 x 785	304	12
FS200886SSP0	2000x800x800	81.79 x 32.14 x 30.84 2078 x 816 x 783	316L	14
FS200886SHP0	2000x800x800	81.84 x 32.19 x 30.92 2079 x 818 x 785	316L	12

ONE-DOOR, SINGLE ACCESS



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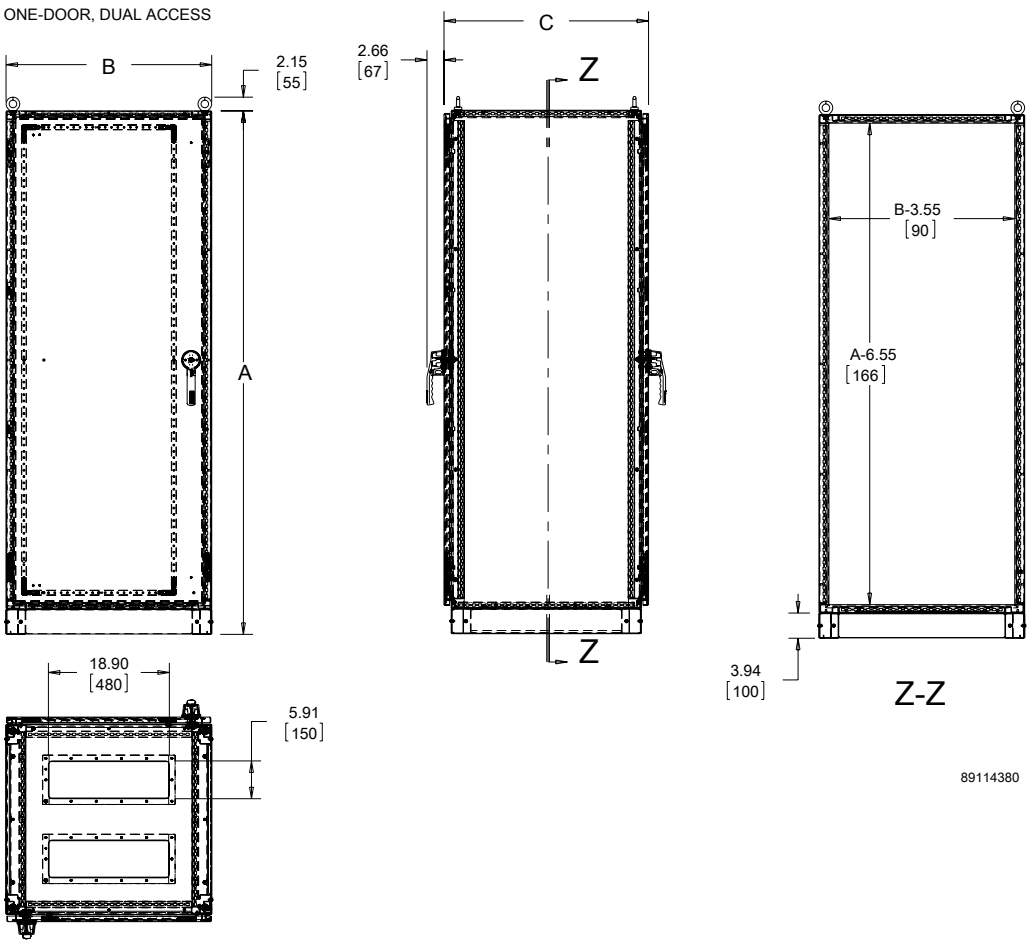
Standard Product **One-Door, Dual Access Enclosures**

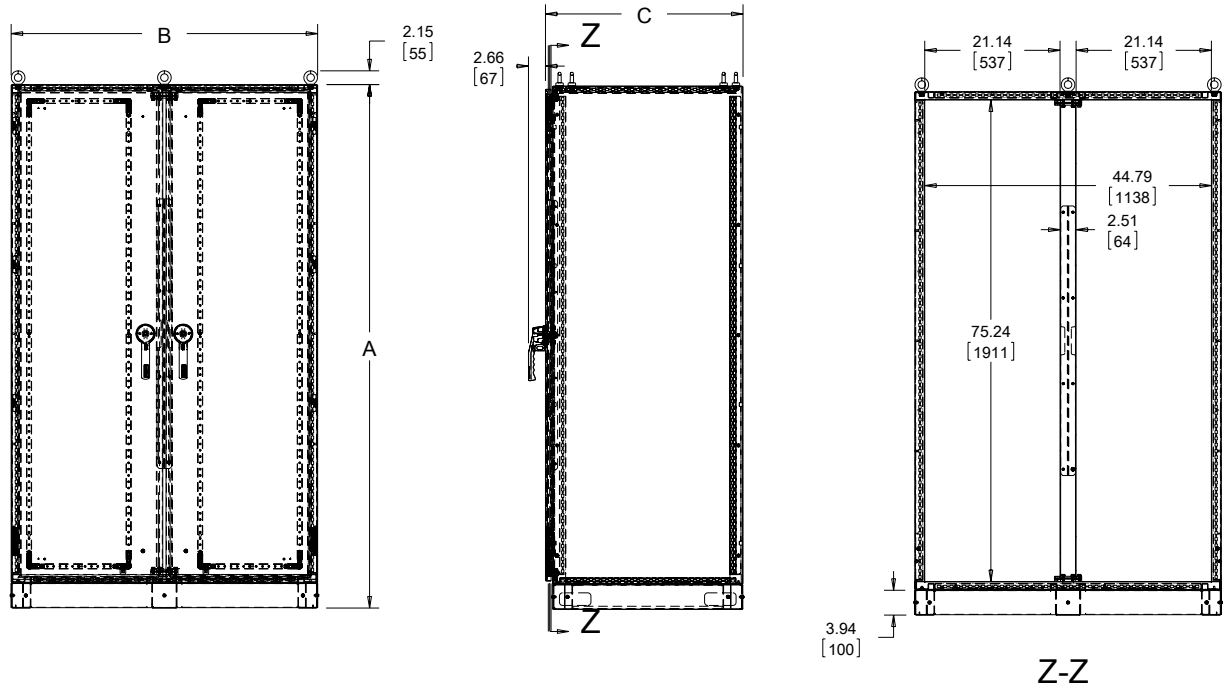
Catalog Number	Nominal AxBxC	AxBxC in./mm	Stainless Steel Type	Gauge
FS180654DSP0	1800x600x500	73.92 x 24.26 x 20.15 1878 x 616 x 512	304	14
FS180654DHP0	1800x600x500	73.97 x 24.32 x 20.26 1879 x 618 x 515	304	12
FS1800656DSP0	1800x600x500	73.92 x 24.26 x 20.15 1878 x 616 x 512	316L	14
FS180656DHP0	1800x600x500	73.97 x 24.32 x 20.26 1879 x 618 x 515	316L	12
FS181054DSP0	1800x1000x500	73.92 x 40.01 x 20.15 1878 x 1016 x 512	304	14
FS181054DHP0	1800x1000x500	73.97 x 40.06 x 20.26 1879 x 1018 x 515	304	12
FS181056DSP0	1800x1000x500	73.92 x 40.01 x 20.15 1878 x 1016 x 512	316L	14
FS181056DHP0	1800x1000x500	73.97 x 40.06 x 20.26 1879 x 1018 x 515	316L	12
FS200884DSP0	2000x800x800	81.79 x 32.14 x 31.97 2078 x 816 x 812	304	14
FS200884DHP0	2000x800x800	81.84 x 32.19 x 32.07 2079 x 818 x 815	304	12
FS200886DSP0	2000x800x800	81.79 x 32.14 x 31.97 2078 x 816 x 812	316L	14
FS200886DHP0	2000x800x800	81.84 x 32.19 x 31.91 2079 x 818 x 811	316L	12

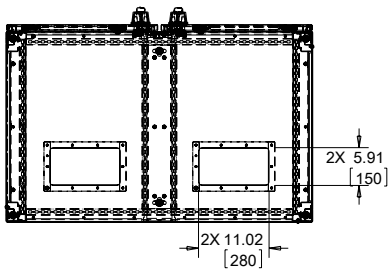


Standard Product **Two-Door, Single Access Enclosures**

Catalog Number	Nominal AxBxC	AxBxC in./mm	Stainless Steel Type	Gauge
FS201284SSP0	2000x1200x800	81.79 x 47.89 x 30.87 2078 x 1216 x 784	304	14
FS201284SHP0	2000x1200x800	81.84 x 47.94 x 30.92 2079 x 1218 x 785	304	12
FS201286SSP0	2000x1200x800	81.79 x 47.89 x 30.87 2078 x 1216 x 784	316L	14
FS201286SHP0	2000x1200x800	81.84 x 47.94 x 30.92 2079 x 1218 x 785	316L	12

TWO-DOOR, SINGLE ACCESS

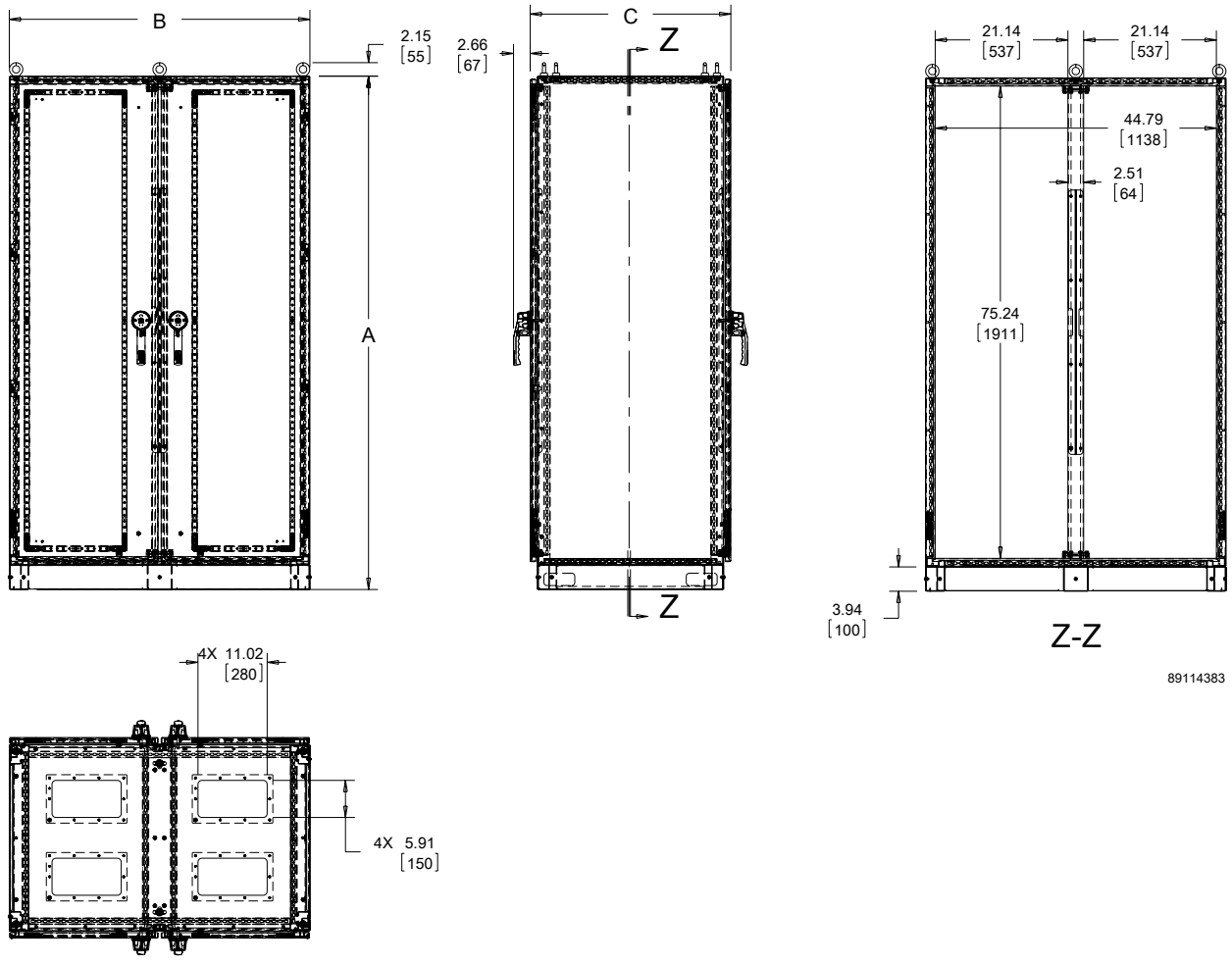




Standard Product **Two-Door, Dual Access Enclosures**

Catalog Number	Nominal AxBxC	AxBxC in./mm	Stainless Steel Type	Gauge
FS201284DSP0	2000x1200x800	81.79 x 47.89 x 31.97 2078 x 1216 x 812	304	14
FS201284DHP0	2000x1200x800	81.79 x 47.97 x 32.07 2078 x 1218 x 815	304	12
FS201286DSP0	2000x1200x800	81.79 x 47.89 x 32.02 2078 x 1216 x 813	316L	14
FS201286DHP0	2000x1200x800	81.84 x 47.94 x 32.02 2079 x 1218 x 813	316L	12

TWO-DOOR, DUAL ACCESS



FS66S PANEL, RACK AND GRID MOUNTING ACCESSORIES

FS66S enclosures utilize PROLINE internal components to provide an extensive range of mounting options. Whether your application calls for rack mounting, panel mounting or grid system mounting, a combination of PROLINE components can deliver the right solution.

Panel Mounting

A complete range of panel mounting options makes optimum use of internal enclosure space.

- A wider door opening offers more usable space for component mounting. Subpanels can be mounted front-to-back in 25-mm increments
- Partial-height panels and swing-out panels offer additional flexibility

Rack Mounting

If your application calls for 19-in., 23-in. or 24-in. mounted devices, FS66S provides a solution.

- 19-in., 23-in. and 24-in. rack-mount accessories include shelves, drawers and panels
- Adapter brackets allow rack angles to be used in wider cabinets
- Plated rack angles offer excellent conductivity for EMC-shielded applications

Grid System Mounting

A variety of grid mounting options lets you mount components directly on the frame. Vertical and horizontal grid straps extend the internal framework while standard fasteners simplify installation and allow multi-source access to fasteners.

Panel and Grid Mounting Accessories

A (Nominal)	B (Nominal)	C (Nominal)	Full Subpanel[a]	Swing-Out Panel[f]	Center Upright[b]	Transformer Rail[e]	One-Row Grid Straps Front-to-Back[c]	Three-Row Grid Strap Front-to-Back[c]	One-Row Grid Straps Left-to-Right[d]	Three-Row Grid Strap Left-to-Right[d]	Full Height Vertical Grid Strap
1800	1000	500	PPF1810	---	PCU18	---	PGH1S5	PGH3S5	PGH1S11	PGH3S11	PGH3S18V
1800	600	500	PPF186	PSP186	---	PTR6	PGH1S5	PGH3S5	PGH1S7	PGH3S7	PGH3S18V
2000	800	800	PPF208	PSP208	PCU20	PTR8	PGH1S8	PGH3S8	PGH1S9	PGH3S9	PGH3S20V
2000	1200	800	PPF2012	PSP206	PCU20	PTR6 PTR12	PGH1S8	PGH3S8	PGH1S13	PGH3S13	PGH3S20V

[a] Mount to top and bottom of frame. Glide blocks position subpanel on frame bottom. Maximum size subpanel shown in chart.

[b] Center uprights are used in 800-mm wide and 1200-mm wide frames to allow mounting of accessories for 600-mm frames. These accessories include partial panels, swing-out panels, rack angles, rack angle accessories and grid system components.

[c] Grid system straps fit horizontally from front to back on frame top and bottom openings.

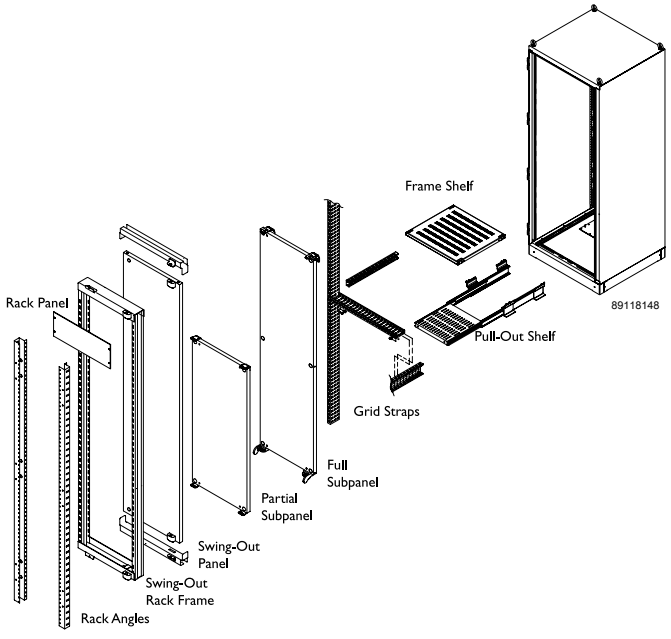
[d] Grid straps and transformer rails fit horizontally from right to left between grid straps or holes in frames.

[e] Use clamping nut package catalog number APS1420CN (1/4-20) or catalog number APS1618CN (5/16-18) for additional mounting options.

[f] Requires center upright to install.

Rack Mounting Accessories

A (nominal)	B (nominal)	19-in. Full-Height. Rack Angles Square Hole	19-in. Full-Height. Rack Angles Tapped	23-in. Full-Height Rack Angles Tapped	24-in. Full-Height Rack Angles Square Hole	24-in. Full-Height Rack Angles Tapped	Frame Reducing Brackets 19-in. Centered	Frame Reducing Brackets 19-in. Justified	Frame Reducing Brackets 23-in. Centered	Frame Reducing Brackets 23-in. Justified	Frame Reducing Brackets 24-in. Centered	Frame Reducing Brackets 24-in. Justified	Frame Accessory Brackets 19-in.	Frame Accessory Brackets 24-in.	Rack Angles Available
1800	600	PRA1918TH	PRA1918TP	---	---	---	---	---	---	---	---	---	PFB19	---	19-in.
1800	1000	PRA1918TH	PRA1918TP	---	PRA2418TH	PRA2418TP	PRB200	---	---	---	---	PRB100 PRB50	PFB19	PFB24	19-in. 24-in.
2000	800	PRA1920TH	PRA1920TP	PRA2320TP	PRA2420TH	PRA2420TP	PRB100	PRB200	PRB50	PRB100	PRB50	PRB100	PFB19	PFB24	19-in. 24-in.
2000	1200	PRA1920TH	PRA1920TP	---	---	---	---	---	---	---	---	---	PFB19	---	19-in.



FULL SUBPANEL

- All necessary mounting hardware is included
- Subpanels are 12 gauge (2.5-mm) steel (subpanels for double-bay enclosures 1400-mm tall or taller are 10 gauge steel), have flanges on all sides and are painted white
- Conductive subpanels are unpainted galvanized steel
- Subpanels can be mounted at nearly any depth in 25-mm increments
- Mounting hardware attaches to the top or to the sides of the frame
- Additional Mounting Hardware (catalog number PMKPF) is available for applications requiring more support in the center or bottom of the subpanel. This is required if the enclosure will be tipped in transit or if the panel is not located at the bottom of the enclosure on the glide blocks. In addition, 3-row grid straps are required for installation unless the panel is in the rearmost position.

BULLETIN: P20

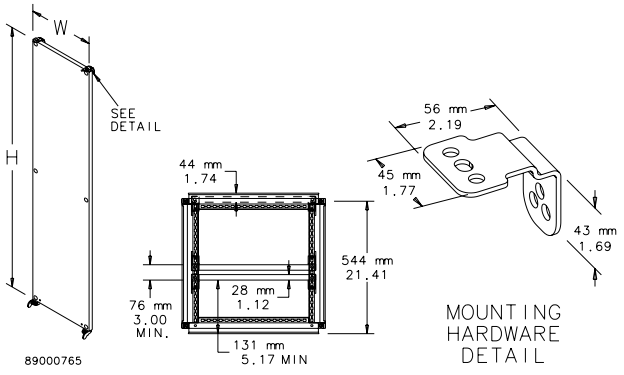
PROLINE subpanels are designed to provide maximum panel depth, panel size and ease of installation. Full subpanels slide into the frame on nylon glide blocks, which support the entire weight of the subpanel.

Full Subpanel

Catalog Number	Material	H mm/in.	W mm/in.
PPF186	Steel	1685 66.34	530 20.87
PPF1810	Steel	1685 66.34	930 36.61
PPF208	Steel	1885 74.21	730 28.74
PPF2012	Steel	1885 74.21	1130 44.49

Additional Mounting Hardware

Catalog Number	Description
PMKPF	Additional Side Mounting Hardware (see Detail in drawing)

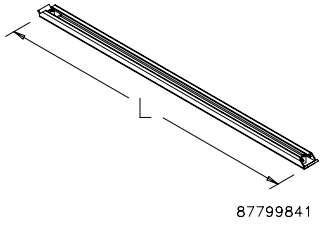


PANEL SUPPORT BRACE

Panel Support Braces give additional support to single- and double-bay panels in heavy loading applications and minimize the vibration created by components mounted on the panel. Braces can be installed on existing systems without removing the panel. Panel support braces are furnished in pairs. Braces are unpainted galvanized steel.

BULLETIN: P20

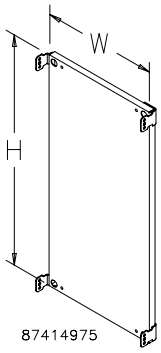
Catalog Number	L (mm)	L (in.)	Fits Panel Width (mm)
PSB10	911	35.87	1000
PSB12	1111	43.74	1200
PSB16	1511	59.49	1600
PSB18	1711	67.36	1800



PARTIAL SUBPANEL

Partial Subpanels are 12 gauge steel, have flanges on four sides and are painted white. Panels can be positioned vertically in 25-mm increments and also can be positioned at any depth in 25-mm increments using the optional grid straps. Conductive subpanels are unpainted galvanized steel. All necessary mounting hardware is included.

BULLETIN: P20



Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame
PPP46	Steel	360	14.17	530	20.87	700 mm or taller
PPP46G	Conductive	360	14.17	530	20.87	700 mm or taller
PPP47	Steel	360	14.17	630	24.80	700 mm or taller
PPP47G	Conductive	360	14.17	630	24.80	700 mm or taller
PPP48	Steel	360	14.17	730	28.74	700 mm or taller
PPP48G	Conductive	360	14.17	730	28.74	700 mm or taller
PPP412	Steel	360	14.17	1130	44.49	700 mm or taller
PPP86	Steel	735	28.94	530	20.87	1400 mm or taller
PPP86G	Conductive	735	28.94	530	20.87	1400 mm or taller
PPP87	Steel	735	28.94	630	24.80	1400 mm or taller
PPP88	Steel	735	28.94	630	24.80	1400 mm
PPP88G	Conductive	735	28.94	730	28.74	1400 mm or taller
PPP810	Steel	735	28.94	930	36.61	1400 mm or taller
PPP96	Steel	835	32.87	530	20.87	1400 mm
PPP96G	Conductive	835	32.87	530	20.87	1400 mm or taller
PPP97	Steel	835	32.87	630	24.80	1400 mm or taller
PPP97G	Conductive	835	32.87	630	24.80	1400 mm or taller
PPP98	Steel	835	32.87	730	28.74	1400 mm or taller
PPP98G	Conductive	835	32.87	730	28.74	1400 mm or taller
PPP910	Steel	835	32.87	930	36.61	1400 mm or taller
PPP910G	Conductive	835	32.87	930	36.61	1400 mm or taller
PPP106	Steel	935	36.81	530	20.87	1400 mm or taller
PPP106G	Conductive	935	36.81	530	20.87	1400 mm or taller
PPP108	Steel	935	36.81	730	28.74	1400 mm or taller
PPP108G	Conductive	935	36.81	730	28.74	1400 mm or taller
PPP116	Steel	1035	40.75	530	20.87	1400 mm or taller
PPP116G	Conductive	1035	40.75	530	20.87	1400 mm or taller

TRANSFORMER RAILS

APPLICATION

Transformer Rails are used to mount heavy components and transformers in the bottom of an enclosure.

FEATURES

- Installed side-to-side in the frame for component mounting
- Includes four M10 clamping nuts and bolts to attach equipment to rails

SPECIFICATIONS

- Rails slotted to fit the integral mounting holes in the frame
- All mounting hardware included

FINISH

Plated

BULLETIN: P20

Catalog Number	Length (mm)	Length (in.)	Fits Frame Width (mm)
PTR6	534	21.02	600
PTR8	734	28.90	800
PTR12	1134	44.65	1200

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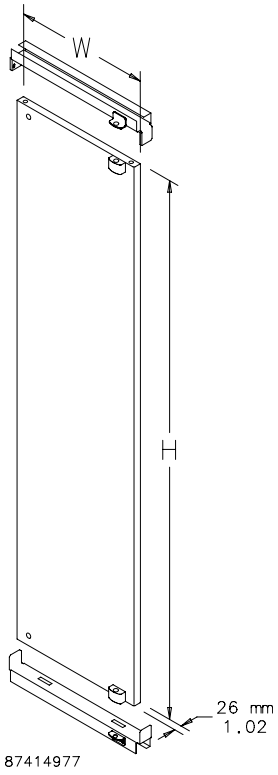
SWING-OUT PANEL



Swing-Out Panels allow a front-mounted panel to pivot out of an enclosure frame opening. This accessory includes a white panel and all the necessary hardware.

- Swing-Out Panels are available for 600-, 700- and 800-mm wide enclosures
- Panels provide 170 degrees of rotation, with capability to hinge from the right or left side
- Spring-loaded pivot post allows for easy installation
- Supports have a white finish. Hinge blocks are anodized black.
- Quarter-turn latches are provided to secure the Swing-Out Panel in the closed position

BULLETIN: P20

Catalog Number	H mm/in.	W mm/in.	Fits Frame	Fits Frame Width
PSP186	1638 64.49	515 20.28	1800 or taller	600
PSP206	1838 72.36	515 20.28	2000 or taller	600
PSP208	1838 72.36	715 28.15	2000 or taller	800

GROUNDING BAR SYSTEM

APPLICATION

Three sizes of grounding bars and insulated mounting brackets are available. Bars are plated copper with M6 and M5 tapped holes to provide a common point for grounding equipment. Fits all enclosures if mounted vertically. See table for horizontal mounting.

BULLETIN: P20

Catalog Number	Description	Length mm/in.	Number of Holes and Screws M6	Number of Holes and Screws M5
PGS2K	Fits 400-mm deep frame front-to-back horizontally	200 7.87	3/5	10/10
PGS4K	Fits 600-mm deep frame front-to-back horizontally	400 15.75	9/11	20/20
PGS6K	Fits 800-mm deep frame front-to-back horizontally	600 23.62	15/17	30/31

INDUSTRY STANDARDS

UL Component Recognized; File No. E61997

PROLINE FASTENER PACKAGES

Use to fasten components to the grid system. PGF Packages include 20 front-loading clip nuts (M6) and 20 combination-drive washer-head bolts (M6).
Grounding Package is used with the rectangular holes in the PROLINE frame to provide electrical continuity between the frame and the grid system. ASM5T Package is used with PROLINE frames having round holes. Package includes 20 M5 self-tapping screws.

BULLETIN: DACCY

Catalog Number	Description	Use in	Pkg. Qty.
ASM5T	M5 x 12 mm thread-forming Phillips hex head screws	Round holes	20
PGFM6	Standard Package - M6 cage nuts and bolts	Rectangular holes	20
PGFGM6	Grounding Package - M6 grounding cage nuts and bolts	Tapped holes	20

PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

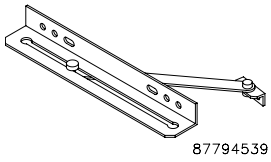
Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

STOP ARM KIT

Used with Heavy-Duty Swing-Out Rack Frames to lock the frame in the open position. Consists of stop arm and mounting hardware.

BULLETIN: P20

Catalog Number	Description
PSAK120	120-degree Stop Arm Kit



SCREW PACKAGE

Twenty plated screws are included in each package. Screws attach rack panels to rack mounting angles. Available in #10-32, #12-24, M5 and M6.

BULLETIN: A80, DACCY

Catalog Number	Description	Pkg. Qty.
AS1032	10-32 x .75	20
ES1224	12-24 x .5	20
ASM5	Metric M5 x 20	20
ASM6	Metric M6 x 16	20
ASM6250	Metric M6 x 16	250

CAGE NUT PACKAGE

Twenty plated cage nuts are included in each package. Available in #10-32, #12-24, M5 and M6, these cage nuts fit all PROLINE and PROLINE G2 rack angles with square holes.

BULLETIN: DACCY

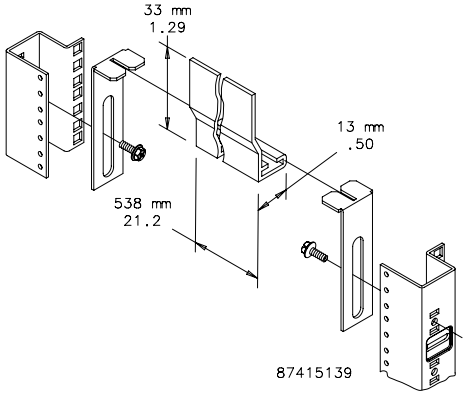
Catalog Number	Description	Pkg. Qty.
P1032CN	10-32 thread	20
P1224CN	12-24 thread	20
PM5CN	Metric M5 thread	20
PM6CN	Metric M6 thread	20

FILLER PANEL FOR RACK ANGLES

Filler Panels are used to completely fill 19-in. rack mounting spaces at top and bottom of PROLINE door opening. Extruded aluminum Filler Panels are furnished in pairs and include mounting hardware.

BULLETIN: P20

Catalog Number	Description
PFP19RA	Filler Panel for Rack Angles



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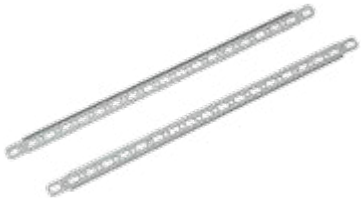
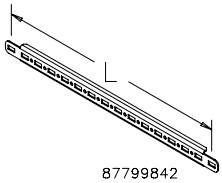
WIRE MANAGEMENT RAILS



Wire Management Rails are 14 gauge steel with a plated finish. They feature a unique hole pattern that allows either wire ties or fasteners to secure wires in place. Frame-mounting hardware is included. One package contains 20 rails.

BULLETIN: P20

Catalog Number	L (mm)	L (in.)	Fits Frame Depth
PWMR4	304	12.0	400
PWMR5	404	15.9	500
PWMR6	504	19.8	600
PWMR8	704	27.7	800
PWMR9	775	30.51	900



GRID SYSTEM

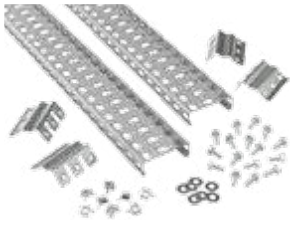
Grid Strap installation (side to side)

Grid strap installation (vertical and horizontal grid straps)

Full-height vertical grid strap

A Grid System provides a flexible extension to the internal mounting system already furnished with the PROLINE frame. The Grid System allows flexible mounting capabilities in height, width and depth. Accessories or equipment can be attached directly to the Grid System using either cage nuts or front-loading cage nuts.

FULL-HEIGHT VERTICAL GRID STRAPS

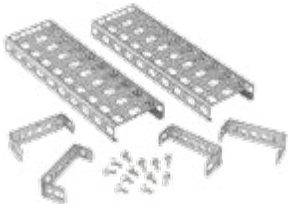


Grid Straps provide a vertical extension of the frame holes in the sides of the PROLINE frame. They are sold in pairs with mounting hardware included. Vertical Grid Straps are 14 gauge plated steel. Three-row 25-mm hole spacing allows the use of cage nuts or front-loading cage nuts.

BULLETIN: P20

Catalog Number	L (mm)	L (in.)	Fits Frame Height
PGH3S7V	595	23.43	700
PGH3S14V	1295	50.98	1400
PGH3S16V	1495	58.86	1600
PGH3S18V	1695	66.73	1800
PGH3S20V	1895	74.61	2000
PGH3S22V	2095	82.48	2200

GRID STRAPS

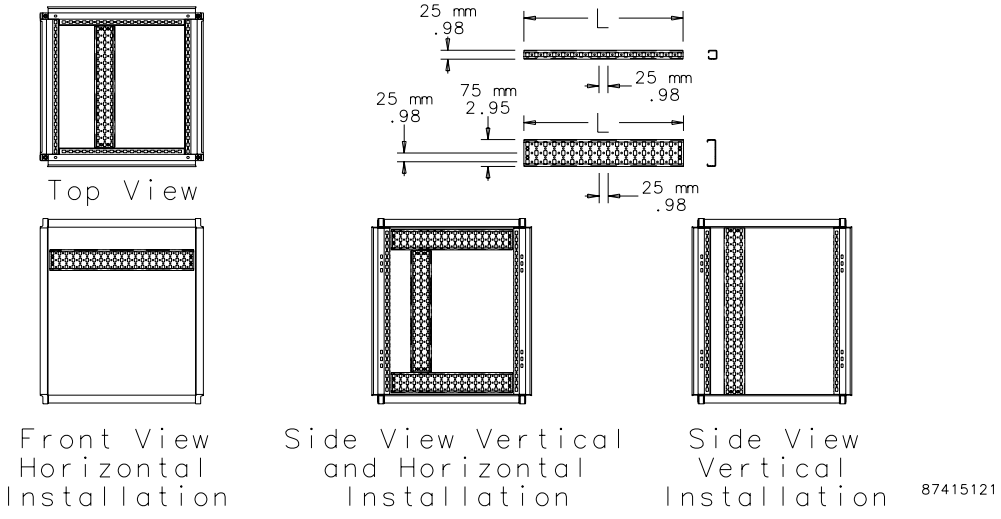


Grid Straps are 14 gauge plated steel. They are provided with specially designed rectangular holes to allow the use of cage nuts or front-loading cage nuts. Mounting holes are provided on 25-mm centers. Grid Straps are available with either 1 row or 3 rows of holes and are furnished in pairs. Mounting hardware to attach Grid Straps to the frame or to other Grid Straps is included.

- Can be mounted front-to-back horizontally across the bottom or sides of the PROLINE frame
- Can be mounted left-to-right horizontally between front-to-back pairs or from the sides of the PROLINE frame
- Can be mounted vertically between horizontally mounted Grid Straps

BULLETIN: DPY, P20

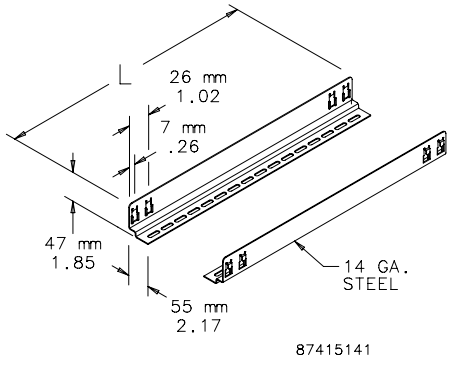
Catalog Number	Hole Pattern	L (mm)	L (in.)	Fits Frame Depth	Fits Frame Width
PGH1S5	One Row	342	13.46	500	—
PGH1S6	One Row	442	17.40	600	—
PGH1S7	One Row	542	21.34	700	600
PGH1S8	One Row	642	25.28	800	700
PGH1S9	One Row	742	29.21	900	800
PGH1S10	One Row	842	33.15	1000	900
PGH1S11	One Row	942	37.08	—	1000
PGH1S13	One Row	1142	44.96	—	1200
PGH1S17	One Row	1542	60.71	—	1600
PGH3S4	Three Row	242	9.53	400	—
PGH3S5	Three Row	342	13.46	500	—
PGH3S6	Three Row	442	17.40	600	—
PGH3S7	Three Row	542	21.34	700	600
PGH3S8	Three Row	642	25.28	800	700
PGH3S9	Three Row	742	29.21	900	800
PGH3S10	Three Row	842	33.15	1000	300
PGH3S11	Three Row	942	37.08	1100	1000
PGH3S12	Three Row	1242	48.89	1200	—
PGH3S13	Three Row	1142	44.96	—	1200
PGH3S17	Three Row	1542	60.71	—	1600



GUIDES

Equipment Guides help support rack-mounted equipment during installation. Guides mount between two pairs of rack angles. Slotted holes are provided for vertical or lateral adjustment. Furnished in pairs. Guides have plated finish. Mounting hardware included.
Rack accessories that are shorter than the enclosure depth can be mounted to rack angles using Adjustable Rack-Mount Rails or Grid Straps. Order these items separately.

BULLETIN: P20



Catalog Number	L (mm)	L (in.)	Frame Depth (mm)	Frame Depth (in.)
PG4	218	8.80	400	15.75
PG5	319	12.56	500	19.68
PG6	420	16.54	600	23.62
PG8	621	24.45	800	31.49
PG9	823	32.40	900	35.43

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PARTIAL SWING-OUT RACK FRAME

APPLICATION

This 19-in. Rack Frame is used when a smaller, medium-duty swing-out frame is desired. Light-weight rack equipment fits nicely into this 800-mm tall swing-out frame, providing 90 degrees of rotation and increased accessibility.

FEATURES

- Side hinge brackets are used to mount the swing frame, allowing free access above and below the swing frame
- Used with any height enclosure and hinged on the right or left

SPECIFICATIONS

- Furnished with hinges, two quarter-turn latches and mounting hardware
- Complies with ANSI/EIA RS-310-D rack mounting standards
  1. Swing-Out Rack Frame assemblies are supplied with mounting supports. Swing-Out Rack Frames can also be installed in right, left or both bays of 1200-mm wide frames using center uprights.
  2. Swing-out mounting supports mount to inside of frame at any vertical location.
  3. Mounting supports and swing-out frame can be located deeper into frame using grid system straps. Deeper mounting affects the degree of opening of swing-out frame.

FINISH

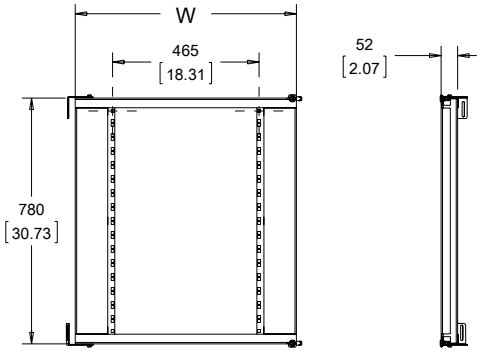
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

Maximum load rating is 100 lb (45 kg)

BULLETIN: P20

Catalog Number	W (mm)	W (in.)	Fits Frame Width (mm)	Rack Units
PSF6	507	20.0	600	16
PSF8	697	27.4	800	16

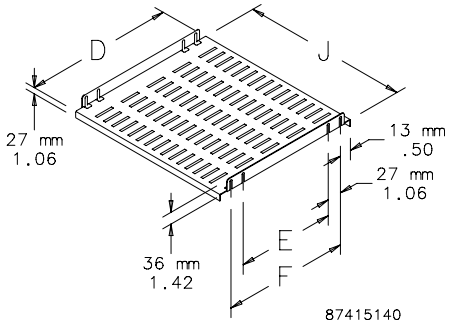


FIXED SHELF

Fixed Shelves mount to the front and back rack angles. The shelf is 14 gauge steel with adjustable 12 gauge steel supports. Adjustable to fit multiple-depth enclosures or rack angle placements. Entire assembly is finished with RAL 7035 textured light-gray polyester powder paint. Load rating is 150 lb. (68 kg).

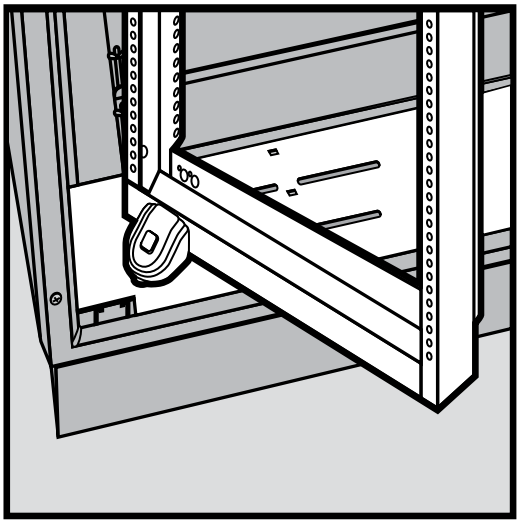
Rack accessories that are shorter than the enclosure depth can be mounted to rack angles or frame accessory brackets attached to grid straps. Order these items separately.

BULLETIN: P20



Catalog Number	D (mm)	D (in.)	E (mm)	E (in.)	F (mm)	F (in.)	J (mm)	J (in.)	Fits Rack Width
P19SH5	349	13.74	264.8	10.43	318.4	12.54	477	18.78	19 in.
P19SH6	449	17.68	364.8	14.36	418.4	16.47	477	18.78	19 in.
P19SH8	649	25.55	564.8	22.24	618.4	24.35	477	18.78	19 in.
P19SH9	749	29.49	664.8	26.17	718.4	28.28	477	18.78	19 in.
P23SH5	349	13.74	270	10.63	323.6	12.74	578.6	22.78	23 in.
P23SH6	449	17.68	370	14.57	423.6	16.68	578.6	22.78	23 in.
P23SH8	649	25.55	570	22.44	623.6	24.55	578.6	22.78	23 in.
P24SH5	349	13.74	264.8	10.43	318.4	12.54	604	23.78	24 in.
P24SH6	449	17.68	364.8	14.36	418.4	16.47	604	23.78	24 in.
P24SH8	649	25.55	564.8	22.24	618.4	24.35	604	23.78	24 in.
P24SH9	749	29.49	664.8	26.17	718.4	28.28	604	23.78	24 in.

HEAVY-DUTY SWING-OUT RACK FRAME

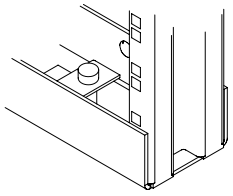


- Allows 19-in. rack equipment to pivot out of the enclosure frame for better accessibility. The frames mount on hinges capable of 120-degree rotation. Hinges that provide 170-degree rotation are optional.
- Spring-loaded pivot post makes installation easy
- Rack Frames are available for 600-, 700- and 800-mm wide enclosure frames
- Mounting supports for an 800-mm wide enclosure frame permit you to either center the rack-mounting frame or position it right or left. The frame can also pivot from either the left or the right for maximum flexibility.
- Mounting supports can be assembled to the top and bottom of the frame for full-height rack-mounting frames. Smaller rack-mounting frames can be mounted to the vertical frame members or to the grid straps. Order separately.
- Furnished with hinges, two quarter-turn latches and mounting hardware RAL 7035 textured gray finish
- Complies with ANSI/EIA RS-310-D rack-mounting standards
- Maximum equipment load is 300 lb.
- Mounting holes accommodate either English or metric cage nuts, which are ordered separately
    1. *Swing-Out Rack Frame assemblies are supplied with mounting supports. Swing-Out Rack Frames can also be installed in right, left or both bays of 1200-mm wide frames using center uprights.*
    2. *Swing-out mounting supports mount to inside of frame at any vertical location.*
    3. *Mounting supports and swing-out frame can be located deeper into frame using grid system straps. Deeper mounting affects the degree of opening of swing-out frame.*

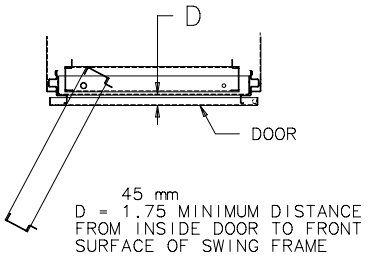
BULLETIN: P20

Catalog Number	H mm/in.	W mm/in.	Rack Units	Fits Frame Height	Fits Frame Width
PSF76	538 21.18	496 19.53	10	700 or taller	600
PSF77	538 21.18	496 19.53	10	700 or taller	700
PSF78	538 21.18	496 19.53	10	700 or taller	800
PSF146	1215 47.83	496 19.53	25	1400 or taller	600
PSF148	1215 47.83	496 19.53	25	1400 or taller	800
PSF168	1438 63.58	496 19.53	30	1600 or taller	800
PSF186	1615 63.58	496 19.53	34	1800 or taller	600
PSF188	1615 63.58	496 19.53	34	1800 or taller	800
PSF206	1838 72.36	496 19.53	39	2000 or taller	600
PSF207	1838 72.36	496 19.53	39	2000 or taller	700
PSF208	1838 72.36	496 19.53	39	2000 or taller	800
PSF226	2015 79.33	496 19.53	43	2200 tall	600
PSF227	2015 79.33	496 19.53	43	2200 tall	700
PSF228	2015 79.33	496 19.53	43	2200 tall	800

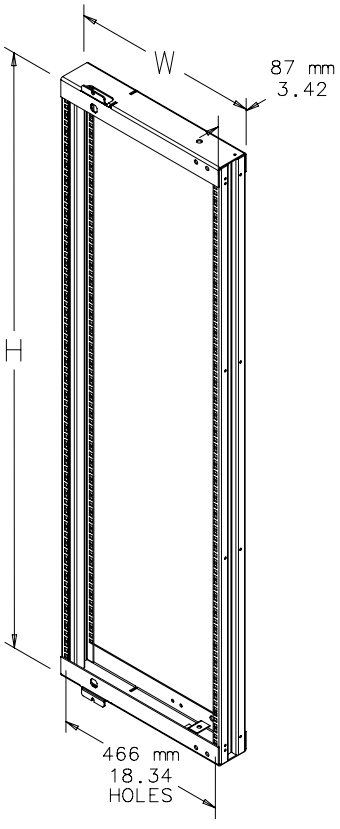
Standard 120° Frame Hinging

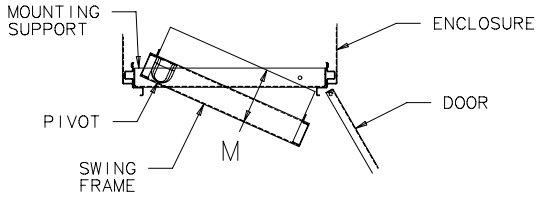


120° Mounting Position



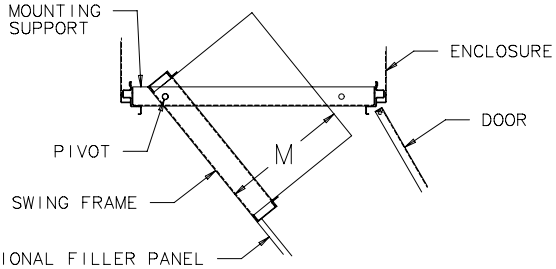
Maximum Installation Depth for 600 mm Wide Enclosures





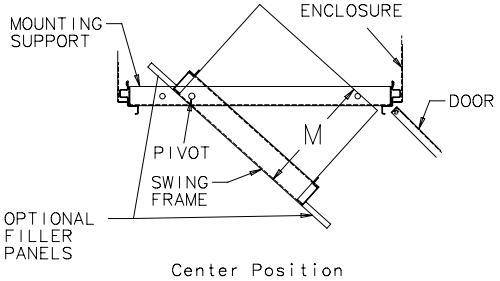
M = Max Installation Depth = 216 mm (8.50 in.)

Maximum Installation Depth for 700 mm Wide Enclosures



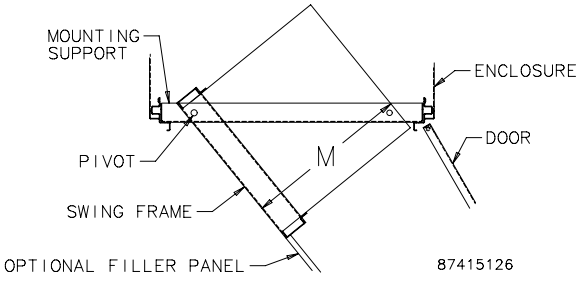
M = Max Installation Depth = 394 mm (15.50 in.)

Maximum Installation Depth for 800 mm Wide Enclosures



Center Position

M = Max Installation Depth = 394 mm (15.50 in.)



Side Position

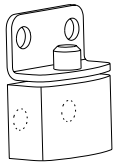
M = Max Installation Depth = 514 mm (20.25 in.)

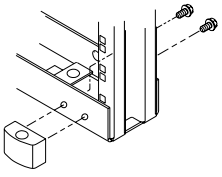
170-DEGREE HINGE KIT

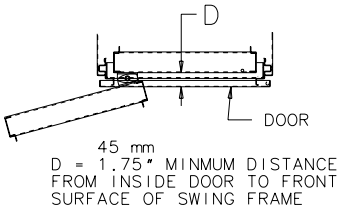
Use this kit in conjunction with the Heavy-Duty Swing-Out Frame. It provides increased accessibility to the back of rack equipment.

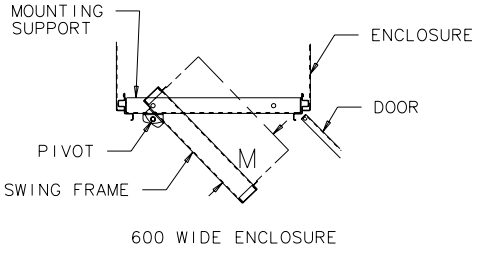
BULLETIN: P20

Catalog Number	Fits Cabinets
PSF170K	600, 700 and 800

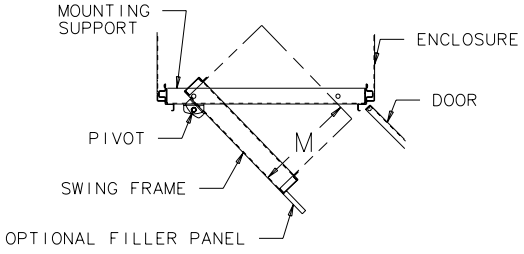


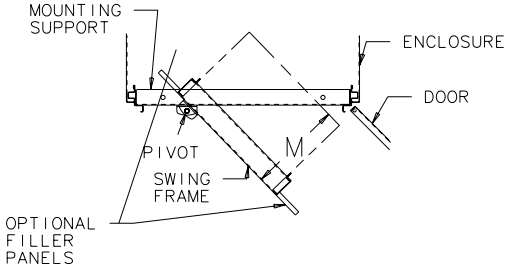


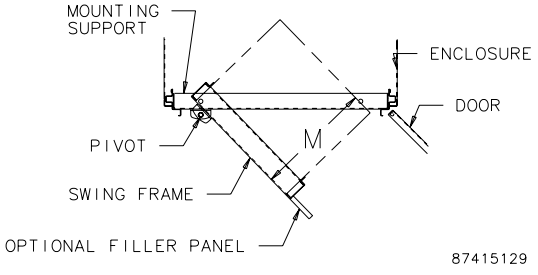




600 WIDE ENCLOSURE







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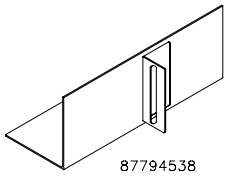
SWING-OUT GUIDES

Guides can be mounted to a Heavy-Duty Swing-Out Rack Frame to provide extra support for rack equipment. Plated steel guides are furnished in pairs with mounting hardware included.

BULLETIN: P20

Catalog Number	Description
PSFG	Swing-Out Guides

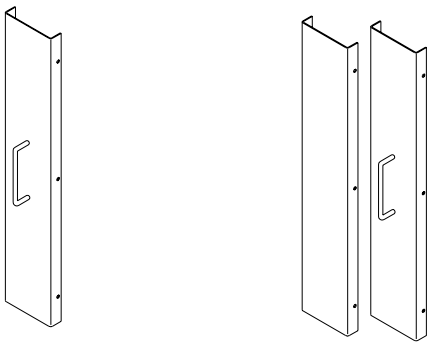


FILLER PANEL KIT

Catalog Number	Swing Frame Height mm	Enclosure Width mm	Mounting
PFPK77LR	700	700	Left or Right
PFPK78C	700	800	Center
PFPK147LR	1400	700	Left or Right
PFPK148C	1400	800	Center
PFPK167LR	1600	700	Left or Right
PFPK168LR	1600	800	Left or Right
PFPK168C	1600	800	Center
PFPK187LR	1800	700	Left or Right
PFPK188LR	1800	800	Left or Right
PFPK188C	1800	800	Center
PFPK208LR	2000	800	Left or Right
PFPK208C	2000	800	Center
PFPK227LR	2200	700	Left or Right
PFPK228LR	2200	800	Left or Right
PFPK228C	2200	800	Center

Used when mounting the PROLINE G2 Heavy-Duty Swing-Out Rack Frames in 800-mm wide frames. The Filler Panel occupies the extra space between the frame and the swing frame. Includes a handle and all the hardware for mounting to the Swing-Out Rack Frame.

BULLETIN: P20

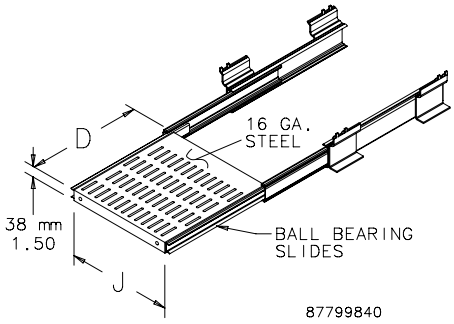


FRAME PULL-OUT SHELF

Frame Pull-Out Shelf allows easy access to shelf-mounted devices. The shelf is 16 gauge steel with 12 gauge steel supports. The entire assembly is finished with RAL 7035 textured gray polyester powder paint. The shelf mounts to the front and rear frame uprights. Load rating is 110 lb. (50 kg).

BULLETIN: P20

Catalog Number	D (mm)	D (in.)	J (mm)	J (in.)	Shelf Extension (mm)	Shelf Extension (in.)
PFSHP66	461	18.15	475	18.70	450	17.72
PFSHP68	661	26.02	475	18.70	670	26.38
PFSHP86	461	18.15	675	26.58	450	17.72
PFSHP88	661	26.02	675	26.58	670	26.38



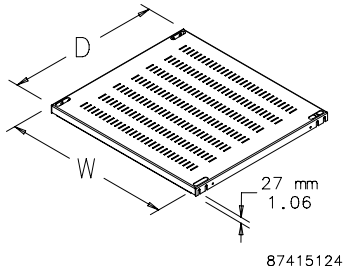
FRAME SHELF

Vented Frame Shelf mounts to the vertical hole pattern on a frame and provides a stationary surface for equipment. The shelf is 16 gauge steel finished with RAL 7035 textured gray polyester powder paint.

BULLETIN: P20

Catalog Number	D (mm)	D (in.)	W (mm)	W (in.)
PFSH64	300	11.81	548	21.57
PFSH65	400	15.75	548	21.57
PFSH66	500	19.68	548	21.57
PFSH68	700	27.56	548	21.57
PFSH69	800	31.50	548	21.57

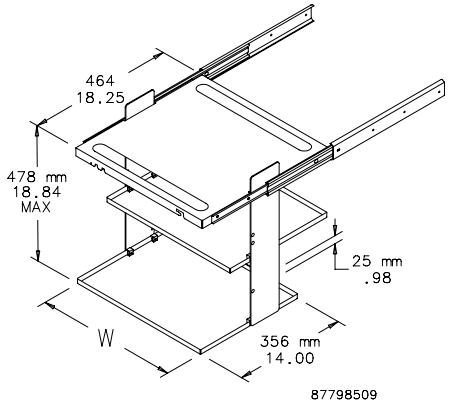
Catalog Number	D (mm)	D (in.)	W (mm)	W (in.)
PFSH75	400	15.75	648	25.51
PFSH76	500	19.68	648	25.51
PFSH78	700	27.56	648	25.51
PFSH84	300	11.81	748	29.45
PFSH85	400	15.75	748	29.45
PFSH86	500	19.68	748	29.45
PFSH88	700	27.56	748	29.45
PFSH89	800	31.50	748	29.45
PFSH104	300	11.81	948	37.32
PFSH105	400	15.75	948	37.32
PFSH106	500	19.68	948	37.32
PFSH108	700	27.56	948	37.32



PRINTER SHELF

The Printer Shelf is used for supporting a continuous feed printer. The shelf mounts directly to a PROLINE frame. Paper shelves are vertically adjustable. The entire unit slides out 17 in. from the enclosure, allowing easy accessibility. Fits 600- or 800-mm wide frames that are 600-mm or more deep.

BULLETIN: P20



Catalog Number	Fits (mm)	W (mm)	W (in.)
PPSH66	600 x 600 or 600 x 800	464	18.27
PPSH86	800 x 600 or 800 x 800	663	26.10

PPSH66 can be installed with paper slots positioned front and back or right and left.

Grid straps are required when mounting printer shelf in frames deeper than 600 mm.

DOOR-ACTIVATED LIGHT SWITCH KIT

Door-activated switch mounts to the frame and includes mounting hardware. Mounting plate is 14 gauge steel with a plated finish.

BULLETIN: P20

Catalog Number	Description
PLFSWD	Door-activated light switch kit

RACK ANGLES OVERVIEW

All Rack Angles have two mounting surfaces that serve as mounts for both rack equipment and rack accessories. Rack Angles are furnished in pairs and are available with tapped holes that directly accommodate 10-32 screws or square holes for use with cage nuts and M5, M6 or 10-32 screws. Rack Angles comply with ANSI/EIA RS-310-D rack mounting standards.

Rack Angles can be mounted directly to the enclosure frame or on grid system straps at almost any depth location. Rack Angles are plated. All mounting hardware to install Rack Angles is included. (Order cage nuts for square hole Rack Angles separately.)

- The standard rack angle position is 44 mm behind the door opening. Rack Angles can be moved forward if desired. Deeper positions require the use of Grid Straps. 1200-mm and 1600-mm wide frames require center uprights to mount Rack Angles in right bay or left bay.
- Shelves, drawer, guides and pull-out shelves require two sets of Rack Angles or frame accessory brackets installed in the frame.

Static Load Notes

It is important to comply with manufacturers' recommendations for rack mounting support.
Follow mounting directions for individual equipment.
Max. 20 lb. (9.1 kg) per rack unit for equipment under 20 in. (508 mm) deep.
Equipment over 20 in. (508 mm) deep or over 20 lb. (9.1 kg) per rack unit requires rear support.

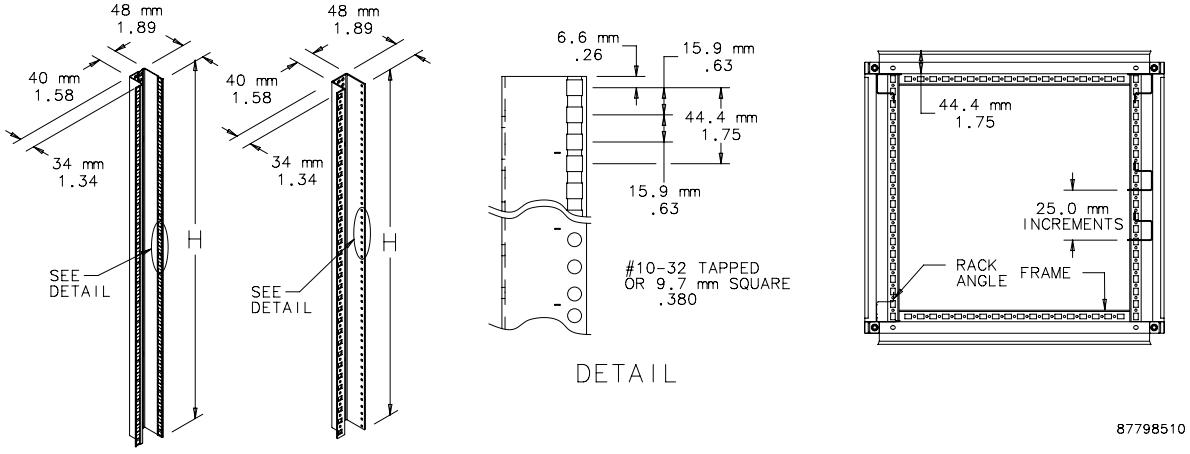
19-IN. RACK ANGLES

19-in. U-Shaped Rack Angles are available in square-hole and tapped-hole designs. Tapped Rack Angles are 12 gauge plated steel with 10-32 tapped holes. Square-Hole Rack Angles are 14 gauge plated steel designed to accept metric or English cage nuts. 19-in. Rack Angles are fixed directly into a 600-mm wide enclosure frame. To mount 19-in. Rack Angles in 700- or 800-mm wide frames, use Frame Reducing Brackets.

BULLETIN: P20

Catalog Number	Hole	H (mm)	H (in.)	Fits Frame	Rack Units
PRA197TH	Square	578	22.77	700 mm	13
PRA197TP	Tapped	578	22.77	700 mm	13
PRA198TH	Square	712	28.02	800 mm	16
PRA198TP	Tapped	712	28.02	800 mm	16
PRA1914TH	Square	1290	50.77	1400 mm	29
PRA1914TP	Tapped	1290	50.77	1400 mm	29
PRA1916TH	Square	1467	57.77	1600 mm	33
PRA1916TP	Tapped	1467	57.77	1600 mm	33
PRA1918TH	Square	1690	66.52	1800 mm	38
PRA1918TP	Tapped	1690	66.52	1800 mm	38
PRA1920TH	Square	1867	73.52	2000 mm	42
PRA1920TP	Tapped	1867	73.52	2000 mm	42
PRA1922TH	Square	2090	82.27	2200 mm	47
PRA1922TP	Tapped	2090	82.27	2200 mm	47

Vertical holes spaced in 1.75-in. (44.5-mm) increments.



23-IN. RACK ANGLES

23-in. Rack Angles are available for telecom applications. They fit directly into 700-mm wide frames or into 800-mm wide frames using Frame Reducing Brackets. Rack Angles are 12 gauge steel with 10-32 tapped holes. 23-in. Rack Angles are available with 1.00-in. vertical hole spacing.

BULLETIN: P20

Catalog Number	Hole	Height mm/in.	Fits Frame Height	Rack Units
PRA237TP	Tapped	584 22.99	700 mm or taller	13
PRA2314TP	Tapped	1270 50.00	1400 mm or taller	29
PRA2316TP	Tapped	1473 57.99	1600 mm or taller	33
PRA2318TP	Tapped	1676 65.98	1800 mm or taller	38
PRA2320TP	Tapped	1879 73.98	2000 mm	42

Vertical holes spaced in 1.00 in. (25.4mm) increments.

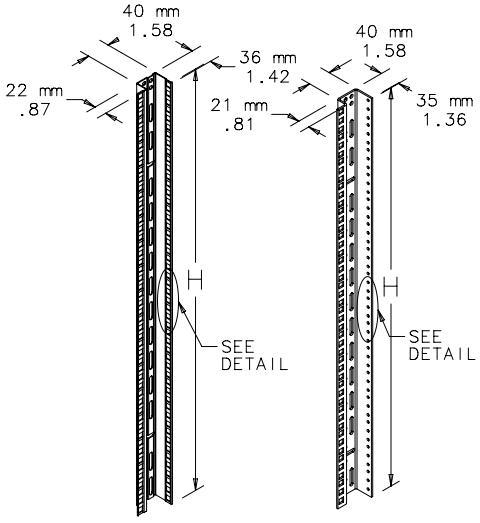
24-IN. RACK ANGLES

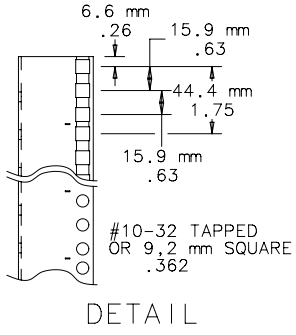
24-in. Rack Angles are available in both square-hole and tapped-hole designs. Tapped Rack Angles are 12 gauge plated steel with 10-32 tapped holes. Square-Hole Rack Angles are 14 gauge plated steel designed to accept metric or English cage nuts. 24-in. Rack Angles fit directly into 700- or 800-mm wide frames using Frame Reducing Brackets.

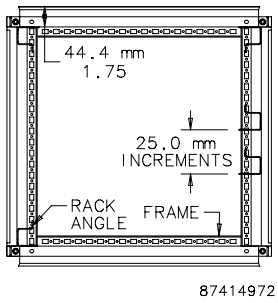
BULLETIN: P20

Catalog Number	Hole	H (mm)	H (in.)	Fits Frame	Rack Units
PRA247TH	Square	578	22.77	700 mm	13
PRA247TP	Tapped	578	22.77	700 mm	13
PRA2414TH	Square	1245	49.02	1400 mm	29
PRA2414TP	Tapped	1245	49.02	1400 mm	29
PRA2416TH	Square	1467	57.77	1600 mm	33
PRA2416TP	Tapped	1467	57.77	1600 mm	33
PRA2418TH	Square	1690	66.52	1800 mm	38
PRA2418TP	Tapped	1690	66.52	1800 mm	38
PRA2420TH	Square	1867	73.52	2000 mm	42
PRA2420TP	Tapped	1867	73.52	2000 mm	42
PRA2422TH	Square	2090	82.27	2200 mm	47
PRA2422TP	Tapped	2090	82.27	2200 mm	47

Vertical holes spaced in 1.75-in. (44.5-mm) increments.







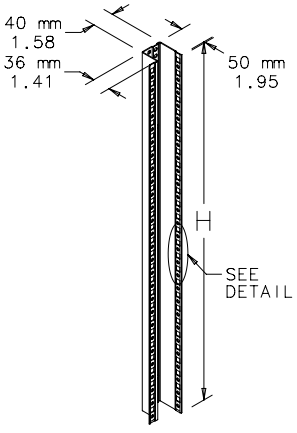
METRIC RACK ANGLES

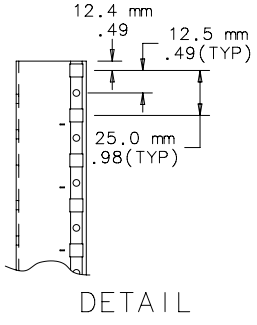
Metric U-Shaped Rack Angles are available with square holes spaced vertically in 25-mm increments to accept metric or English cage nuts. These Rack Angles are built in accordance with standard IEC 917-2-1 to accommodate metric subracks. They are sized to fit directly into 600-mm wide frames. Use Frame Reducing Brackets to mount in 700- or 800-mm wide frames.

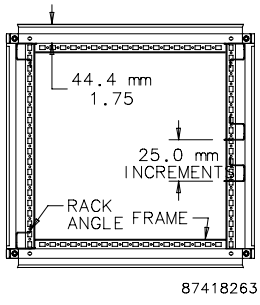
BULLETIN: P20

Catalog Number	H (mm)	H (in.)	Fits Frame Height	Rack Units
PRAM7	575	22.64	700 mm	22
PRAM14	1275	50.20	1400 mm	29
PRAM16	1475	58.07	1600 mm	33
PRAM18	1675	65.94	1800 mm	38
PRAM20	1875	73.82	2000 mm	42
PRAM22	2075	81.69	2200 mm	47

Vertical holes spaced in 25-mm increments.





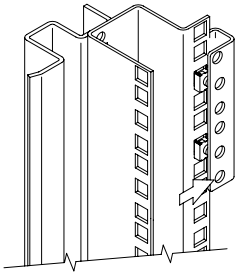


RACK ANGLE ADAPTER BRACKET

Rack Angle Adapter Brackets mount to PROLINE and PROLINE G2 Rack Angles. They bring out the rear leg mounting surface to allow traditional Rack Mount Slides (A16SL2U, sold separately) to be used. Fits tapped or through-hole PROLINE and PROLINE G2 Rack Angles. Rack Angle Adapter Brackets come in a quantity of four and are 14 gauge steel. They have a plated finish.

BULLETIN: P20

Catalog Number	Gauge	Use With
PBRAA	14	Rack-Mount Slides A16SL2U

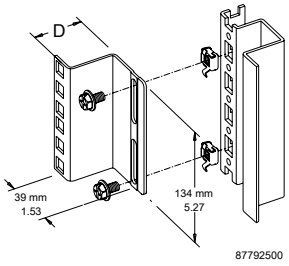


FRAME ACCESSORY BRACKET

Frame Accessory Brackets mount directly to the PROLINE frame and are used in place of rack angles to mount rack accessories such as shelves and pull-out shelves. Frame Accessory Brackets are furnished in sets of four and are 14 gauge plated steel. Mounting hardware is included.

BULLETIN: P20

Catalog Number	Description	D (mm)	D (in.)
PFB19	19-in. EIA spacing	36	1.42
PFB23	23-in. EIA spacing	36	1.42
PFB24	24-in. EIA spacing	22	0.87
PFBM	Metric IEC 91721 spacing	36	1.42



RACK PANELS

Rack Panels are available in aluminum and painted steel. Aluminum Rack Panels are .125-in.-thick 5052-H32 alloy. Steel Rack Panels are 12 gauge steel and finished in RAL 7035 textured light-gray polyester powder paint. All panels are flat with oblong holes positioned at EIA standard spacing. Mounting hardware is sold separately.

BULLETIN: P20

Catalog Number	Material	Rack Angle Size	Rack Units
P19RP1UA	Aluminum	19 in.	1
P19RP1UP	Steel	19 in.	1
P19RP2UA	Aluminum	19 in.	2
P19RP2UP	Steel	19 in.	2
P19RP3UA	Aluminum	19 in.	3
P19RP3UP	Steel	19 in.	3
P19RP4UA	Aluminum	19 in.	4
P19RP4UP	Steel	19 in.	4
P19RP5UA	Aluminum	19 in.	5
P19RP5UP	Steel	19 in.	5
P19RP6UP	Steel	19 in.	6
P19RP6UA	Aluminum	19 in.	6
P19RP7UA	Aluminum	19 in.	7
P19RP7UP	Steel	19 in.	7
P19RP8UA	Aluminum	19 in.	8
P19RP8UP	Steel	19 in.	8
P19RP9UA	Aluminum	19 in.	9
P19RP9UP	Steel	19 in.	9
P19RP10UA	Aluminum	19 in.	10
P19RP10UP	Steel	19 in.	10
P19RP11UA	Aluminum	19 in.	11
P19RP11UP	Steel	19 in.	11
P19RP12UA	Aluminum	19 in.	12
P19RP12UP	Steel	19 in.	12
P19RP16UA	Aluminum	19 in.	16
P19RP16UP	Steel	19 in.	16

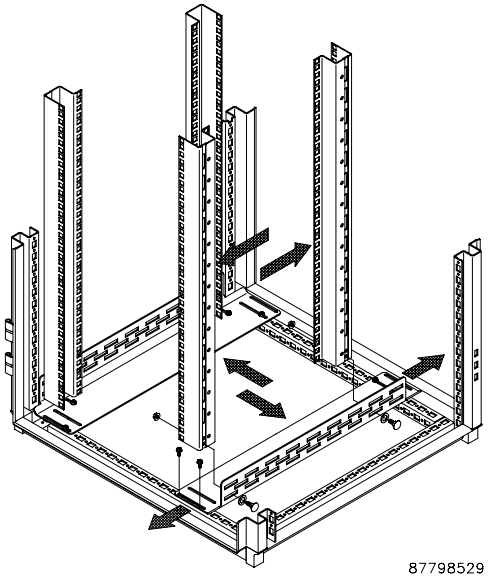
ADJUSTABLE RACK-MOUNTING RAILS

Mounting rails allow rack angles to be positioned anywhere within the PROLINE frame. The left-to-right adjustment pertains only when the enclosure is wider than the minimum width required for rack angles. Includes two right-hand and two left-hand 12 gauge plated or painted steel mounting rails. Mounting hardware is included.

BULLETIN: DPY, P20

Catalog Number	L (mm)	L (in.)	Fits Frame Depth	Finish
PBARA6	511	20.11	600	Plated
PBARA8	711	27.98	800	Plated
PBARA9	811	31.92	900	Plated
PBARA9B	811	31.92	900	Painted RAL 9005 Black
PBARA10B	911	35.86	1000	Painted RAL 9005 Black

Catalog Number	L (mm)	L (in.)	Fits Frame Depth	Finish
PBARA11B	1011	39.79	1100	Painted RAL 9005 Black
PBARA12B	1111	43.73	1200	Painted RAL 9005 Black



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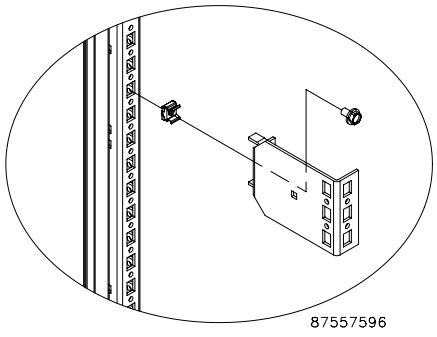
FRAME-REDUCING BRACKETS FOR FRAMES OR GRID STRAPS

Frame-Reducing Brackets mount directly to 700- or 800-mm wide PROLINE frames or to grid straps. Converts wider frames to 600-mm wide, allowing 19-in. rack angles to fit, or to 700-mm wide, allowing 23-in. rack angles to fit. Can be used to left- or right-justify the rack-mounted equipment. Furnished in sets of four. 14 gauge plated steel. Mounting hardware is included.

BULLETIN: P20

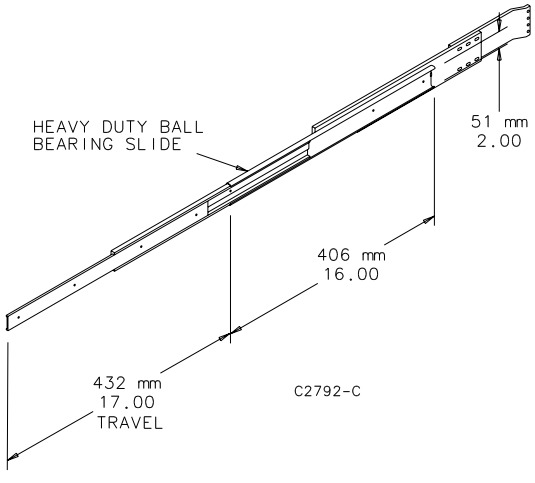
Catalog Number	Reduces Frame Width	W (mm)	W (in.)	Converts Frame Width
PRB50	50	50	1.97	From 700 to 600 From 800 to 700 mm
PRB100	100	100	3.94	From 800 to 600 From 800 to 700 From 700 to 600 mm
PRB200	200	200	7.87	From 1000 to 600 From 1000 to 800 From 800 to 600 mm



SLIDES

Heavy-duty ball bearing, plated, three-section Slides are 16-in. (406-mm) long and allow 17-in. (423-mm) extension. They are attached to supports that mount between two pairs of rack-mounting angles that have accessory mounting legs. Mounting hardware is furnished. Equipment 16.75-in. (425-mm) wide can be mounted between Slide assemblies installed on 19-in. rack angles. A pair of Slides can support up to 160 lb. (73 kg) at the extended position when load is distributed evenly along the 16-in. (406-mm) Slide length. Requires Rack Angle Adapter Bracket to fit PROLINE. *Needs to be used with the Rack Angle Adapter Bracket (PBRAA, PBRAA19 or PBRAA24).*

BULLETIN: P20



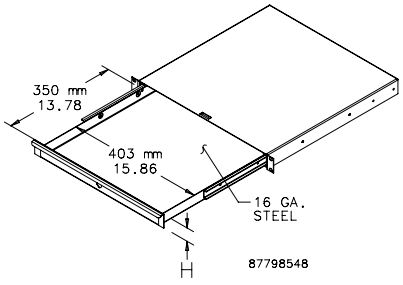
Catalog Number	Quantity
A16SL2U	2

RACK-ANGLE MOUNTED DRAWER

Steel drawer for 19-in. rack-angle mounting. Mounts to the front surface of the rack angles. Integral steel box contains the drawer and protects surrounding internal equipment. Extends 13 in. (330 mm) on ball bearing slides. Front includes handle and key lock. Finish is RAL 7035 textured light-gray polyester powder paint. Mounting hardware is included.

BULLETIN: P20

Catalog Number	H (mm)	H (in.)	Fits Rack Width	Rack Units
P19DR1US	43	1.69	19 in.	1
P19DR2US	88	3.47	19 in.	2
P19DR3US	132	5.20	19 in.	3

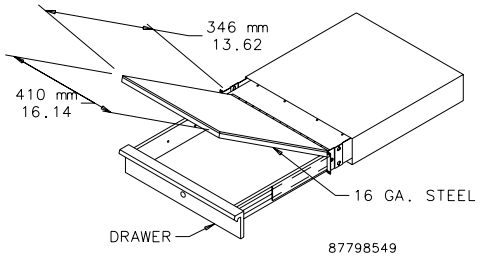


WRITING SURFACE

A 16-gauge steel cover mounts on top of the drawer to serve as a writing surface and drawer cover. Finish is RAL 7035 textured light-gray polyester powder paint.

BULLETIN: P20

Catalog Number	Fits
P19WS	Drawer



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WATERSHED FREE-STAND, TYPE 4X

SPECIFICATIONS

- Manufactured from 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by cover edges
- Hinged side of cover has provisions to allow direct flushing of hinge area
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits the placement of objects on the top of the enclosure
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom edges to facilitate runoff
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Three-point latching operated by POWERGLIDE Type 316L padlocking stainless steel handles
- Seamless foam-in-place one-piece gasket provides oil-tight and dust-tight seal against contaminants
- Bonding provision on doors; grounding studs on body
- Accessory mounting channel provided in enclosure top
- Panel studs fit optional NEMA style panels
- Mounting holes in bottom of enclosure for direct mounting or for optional sanitary legs and stainless steel floor stands
- Furnished hardware kit consists of panel mounting nuts, grounding hardware and hole seals for mounting holes

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File Number E61997

NSF 169
NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

The Hoffman WATERSHED stainless steel free-stand enclosure, with its unique design and Type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in a variety of indoor and outdoor settings. Its unique features are specifically designed for use in sanitary washdown production environments like food, beverage, or pharmaceutical processing. However, these same features also are useful in petrochemical plants, pulp and paper facilities and wastewater treatment plants.

FINISH

Stainless steel enclosures are unpainted. External surfaces have a #4 brushed finish. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334

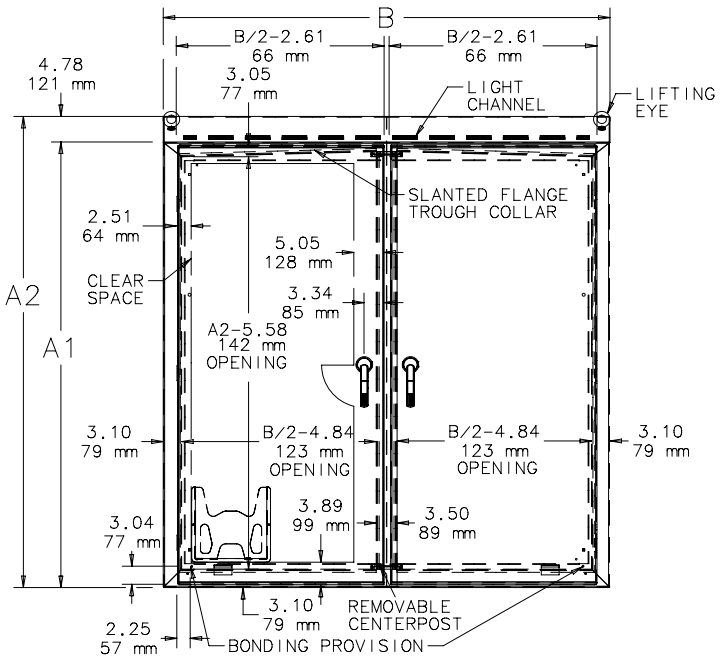
BULLETIN: WS2

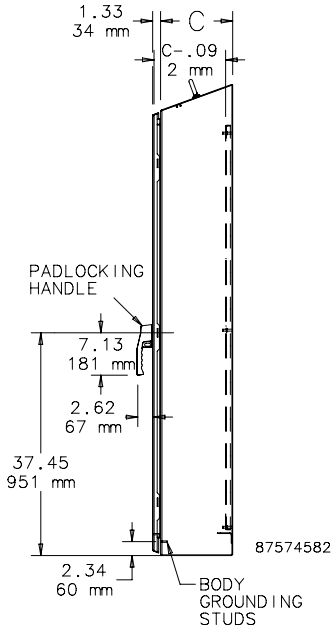
Standard Product

Catalog Number	AxBxC in./mm	A1 in./mm	A2 in./mm	B in./mm	C in./mm	Panel	Conductive Panel
WS625112SS	62.00 x 51.00 x 12.00 1575 x 1295 x 305	62.81 1595	67.20 1700	51.09 1298	12.12 308	A60P48	A60P48G
WS625118SS	62.00 x 51.00 x 18.00 1575 x 1295 x 457	62.81 1595	69.38 1700	51.09 1298	18.12 460	A60P48	A60P48G
WS626312SS	62.00 x 63.00 x 12.00 1575 x 1600 x 305	62.81 1595	67.20 1700	63.09 1602	12.12 308	A60P60	A60P60G
WS626318SS	62.00 x 63.00 x 18.00 1575 x 1600 x 457	62.81 1595	69.38 1700	63.09 1602	18.12 460	A60P60	A60P60G
WS746312SS	74.00 x 63.00 x 12.00 1880 x 1600 x 305	74.81 1900	79.20 2012	63.09 1602	12.12 308	A72P60	A72P60G
WS746318SS	74.00 x 63.00 x 18.00 1880 x 1600 x 457	74.81 1900	81.38 2067	63.09 1602	18.12 460	A72P60	A72P60G
WS747512SS	74.00 x 75.00 x 12.00 1880 x 1905 x 305	74.81 1900	79.20 2012	75.09 1907	12.12 308	A72P72	A72P72G
WS747518SS	74.00 x 75.00 x 18.00 1880 x 1905 x 457	74.81 1900	81.38 2067	75.09 1907	18.12 460	A72P72	A72P72G
WS747524SS	74.00 x 75.00 x 24.00 1880 x 1905 x 610	74.81 1900	83.57 2123	75.09 1907	24.12 613	A72P72	A72P72G

A x B x C are nominal dimensions.

Purchase panels separately.



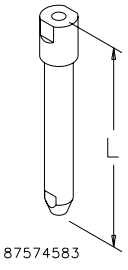


SANITARY LEG KITS

Sanitary Leg Kits provide space between the enclosure and the floor for better washdown accessibility. Available with fixed or independently adjustable legs. Adjustable leg shown. Four legs per kit. Maintains NEMA Type 4X rating when properly installed on a Hoffman Type 4X enclosure.

BULLETIN: WSY

Catalog Number	Description	Size L (in.)	Size L (mm)
WSASLKSS	Adjustable Sanitary Leg Kit	11.50 -12.50	292 -318
WSFSLKSS	Fixed Sanitary Leg Kit	12.00	305

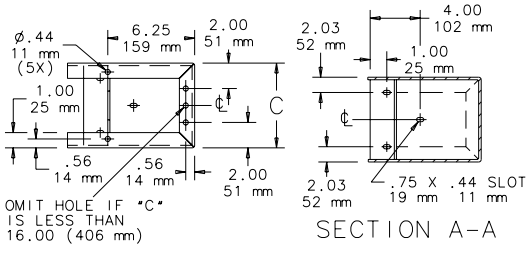


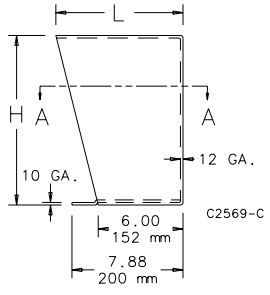
FLOOR STAND KIT, STAINLESS STEEL

Use to raise free-stand enclosure. To install, drill holes in the bottom of the enclosure and bolt the floor stands to the enclosure. Each kit includes two stands. Type 304 stainless steel. Maintains UL/cUL Type 4X rating when properly installed on a Hoffman Type 4X enclosure.

BULLETIN: A4SY

Catalog Number	H (in.)	H (mm)	C (in.)	C (mm)	L (in.)	L (mm)
AFK0612SS	6.00	152	12.06	306	9.09	231
AFK0618SS	6.00	152	18.06	459	9.09	231
AFK0624SS	6.00	152	24.06	611	9.09	231
AFK1212SS	12.00	305	12.06	306	9.09	231
AFK1218SS	12.00	305	18.06	459	9.09	231
AFK1224SS	12.00	305	24.06	611	9.09	231
AFK1812SS	18.00	457	12.06	306	9.09	231
AFK1818SS	18.00	457	18.06	459	9.09	231
AFK1824SS	18.00	457	24.06	611	9.09	231
AFK2412SS	24.00	610	12.06	306	9.09	231
AFK2418SS	24.00	610	18.06	459	9.09	231
AFK2424SS	24.00	610	24.06	611	9.09	231





STAINLESS STEEL PROLINE-PC PACKAGE, TYPE 12

APPLICATION

This enclosure offers effective protection for computer systems in industrial environments. Three separate compartments within the enclosure can be used to protect computer monitors, keyboards, CPUs, printers and other peripheral equipment.
The 19-in. diagonal top window door, hinged on the left, offers viewing access for a variety of monitor sizes and has a small flush swing handle with keylock for system security.
The vented frame shelf in the top compartment is constructed of 16 gauge steel and finished with RAL 7035 textured light-gray polyester powder paint.
The PROLINE keyboard compartment includes a locking feature, an angled palm rest, a cable access port for wiring and integral mouse pad holders for left-handed or right-handed persons.
The bottom compartment includes a solid door hinged on the left with a small flush swing handle with keylocking. This compartment can be used to install computer equipment, panel mounted equipment or rack mounted control systems.
The frame is enclosed with solid sides, a solid top and a 100-mm solid base.
A rear mounted solid door with a keylocking flush swing handle offers rear access to the computer equipment and wiring.
For more information, see PROLINE Assembled Enclosures in the Modular Enclosure Systems chapter.

FINISH

External components have a smooth #4 brushed finish.
External doors, sides, top and base are Type 304 stainless steel.
Keyboard compartment has RAL 9005 textured black polyester powder paint finish.

ACCESSORIES

Caster Kit, page 1405
Thermoplastic Data Pocket, page 1353

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: P20, P20PC, P20S

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55
VDE IP55

Standard Product

Catalog Number	AxBxC in./mm	M mm/in.	N mm/in.	P mm/in.	R mm/in.	Top Door Height mm/in.	Top Door Width mm/in.	Bottom Door Height mm/in.	Bottom Door Width mm/in.
PPC1666SS	66.46 x 23.94 x 23.58	343	365	585	1363	558	536	738	536
	1688 x 608 x 599	13.50	14.40	23.06	53.66	21.98	21.11	29.09	21.11

100-mm solid base is included in "A" dimension

Summary of Components Included in Assembled PROLINE-PC Packages

Catalog Number	Component	Qty.
PFPC1666	Frame, steel	1
PT66SS	Solid top, stainless steel	1
PDS86SS	Solid door (bottom), stainless steel	1
PDWT86PCSS	Window door (top), stainless steel	1
PSS166SS	Solid side, stainless steel	2
PDS166SS	Solid door (rear), stainless steel	1
PB166SS	Solid base (100mm), stainless steel	1
PKBC6R	Black painted keyboard compartment	1

Additional Stainless Steel Components Available for PROLINE-PC Enclosures

Catalog Number	Component
PCSA6SS	Access cover
PDWG86SS	Window door (bottom)
PCST86PCSS	Solid cover (top)
PCS86SS	Solid cover (bottom)
PDST86PCSS	Solid cover (bottom)

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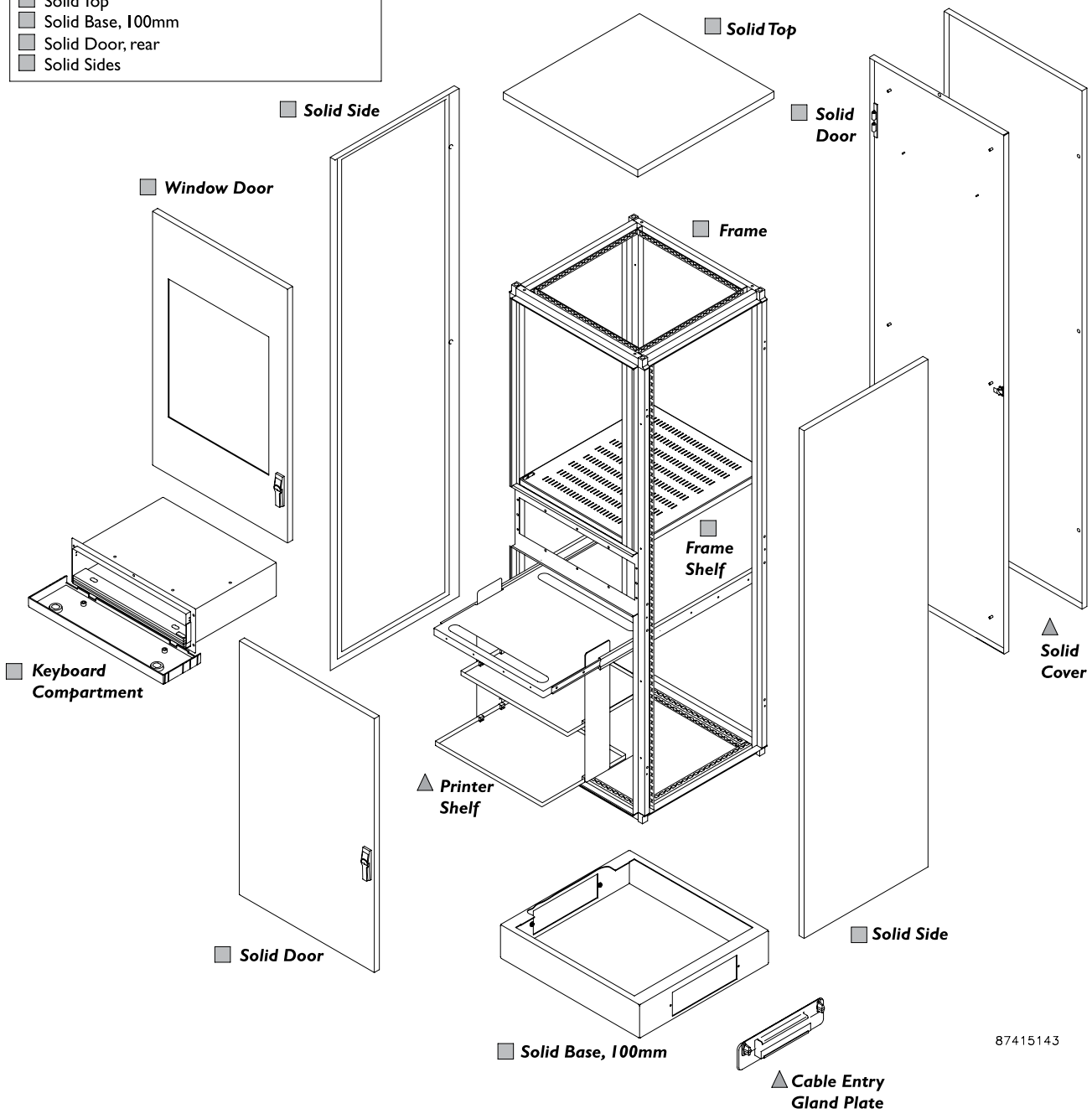
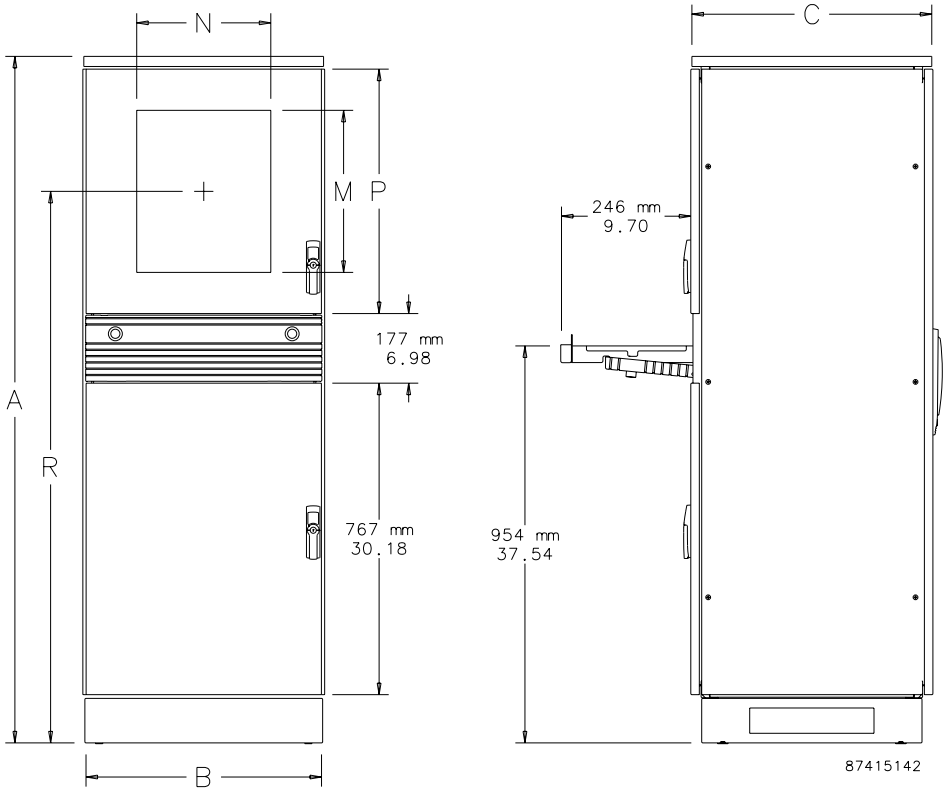
Standard Configuration
☐ Frame
☐ Frame Shelf, top compartment
☐ Keyboard Compartment
☐ Window Door, top front
☐ Solid Door, bottom front
☐ Solid Top
☐ Solid Base, 100mm
☐ Solid Door, rear
☐ Solid Sides

△ Optional Components
Optional components may be ordered separately.

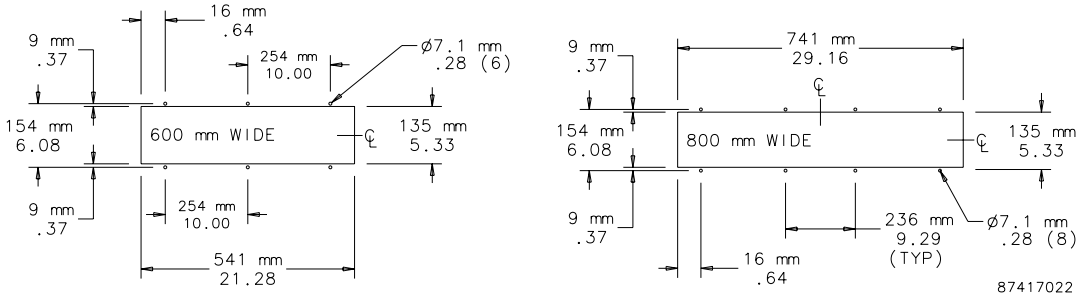
NOTE:
PFPC_____ frames have three front openings for top, center, and bottom modular components.



PROLINE-PC Modular Enclosure



Accessory Front Opening Mounting Cutout



Notes

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STAINLESS STEEL PROLINE-SY PACKAGE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55
VDE IP55

APPLICATION

This enclosure is designed to protect many industrial operator interface systems. Two separate compartments within the enclosure can be used to protect panel- or rack-mounted control systems, operator interface packages and a variety of other electronic control components.

- The top compartment is open and can accommodate a variety of front cover and door options
- Internal grid straps are factory-installed in top compartment to provide support for operator interfaces
- The bottom door is hinged on the left and has an attractive keylocking flush swing handle
- The solid rear door permits rear access to equipment and wiring and includes a keylocking pushbutton handle
- Standard external components include solid sides, solid top and a 100-mm solid base

Order cover, door or window door for top front to complete the enclosure. Solid covers with pre-fabricated operator interface cutouts are available; consult Hoffman for ordering information. *For more information, see PROLINE Assembled Enclosures in the Modular Enclosure Systems chapter.*

FINISH

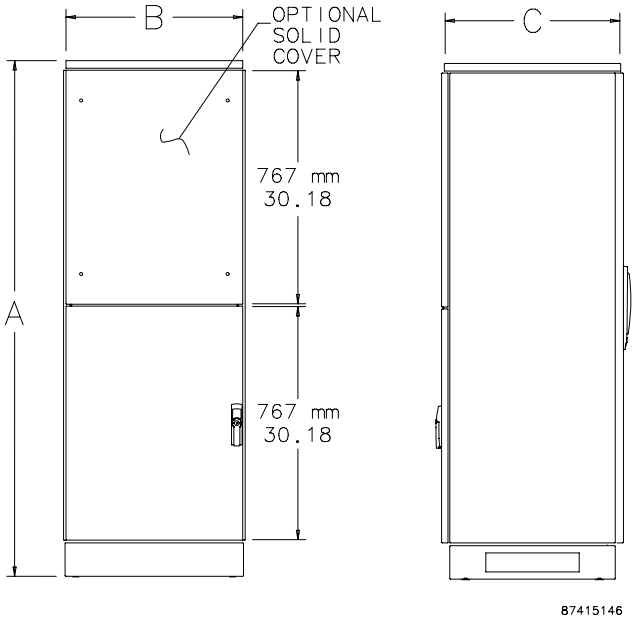
Stainless steel enclosures are unpainted.
External components have a smooth #4 brushed finish.
External doors, sides, top and base are Type 304 stainless steel.

ACCESSORIES

Caster Kit, page 1405
Thermoplastic Data Pocket, page 1353

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.



BULLETIN: P20, P20S, P20SY

Standard Product

Catalog Number	AxBxC (in.)	AxBxC (mm)
PSY1666SS	63.00 x 23.60 x 23.60	1600 x 600 x 600

Top and bottom door opening size: 29.09 x 21.11 in. (739 x 536 mm) on 600-mm wide; 29.09 x 28.98 in. (739 x 736 mm) on 800-mm wide.

Summary of Components Included in Assembled PROLINE-SY Package

Catalog Number	Component	Qty.
PFSY1666	Frame	1
PT66SS	Solid top, stainless steel	1
PDS166SS	Solid door (rear), stainless steel	1
PDS86SS	Solid door (bottom), stainless steel	1
PB066SS	Solid base (100 mm), stainless steel	1
PSS166SS	Solid side, stainless steel	2
PFHKBL	Flush pushbutton handle (keylock)	1
PSHKBL	Small flush swing handle	1
PGH3S7	Grid system strap	1
PGH3S6	Grid system strap	1

Additional Stainless Steel Components Available for PROLINE-SY Enclosure

Catalog Number	Component
PDWG86SS	Window doors (top/bottom)
PCS86SS	Solid covers
PCSK4	Solid covers with OI cutouts

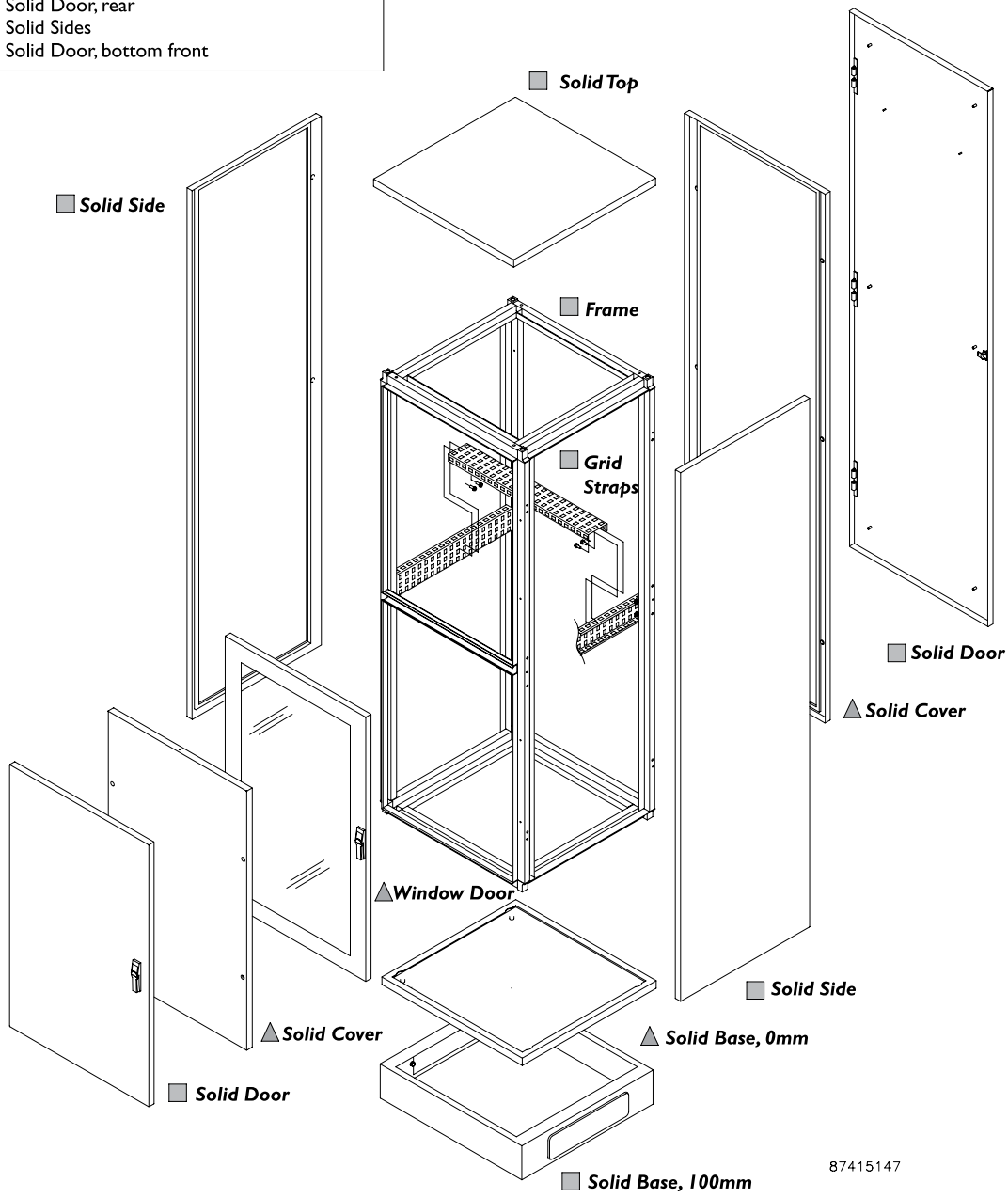
Standard Configuration

- Frame
- Grid Straps, top compartment
- Solid Top
- Solid Base, 100mm
- Solid Door, rear
- Solid Sides
- Solid Door, bottom front

Optional Components

Optional components may be ordered separately.

NOTE:
PFSY_____ frames have two front openings for top and bottom modular components.



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CHAPTER 3
NON-METALLIC

POLYPRO

POLYPRO polyester enclosures perform exceptionally well in applications where harsh chemicals, weather extremes and corrosive environments demand toughness from a lightweight enclosure. Providing excellent ultraviolet protection and a tight environmental seal, these versatile, feature-rich enclosures are also recyclable.

ULTRX

Providing outstanding protection against corrosion and the elements, the clean lines and molded, embossed design of ULTRX fiberglass enclosures make them the most stylish and aesthetically pleasing of their class.

CONTINUOUS HINGE, TYPE 4X

The efficient design and simple construction of these enclosures make them durable in corrosive environments, yet aesthetically pleasing. Corner latches provide unobstructed access. The continuous hinge provides a secure seal, and double latching creates added security.

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POLYPRO, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997 Enclosure flammability evaluated per UL 508A Window flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186; Type 4, 4X, 12, 13 (solid covers only)
IEC 60529, IP66

APPLICATION

POLYPRO polyester enclosures perform exceptionally well in applications where harsh chemicals, weather extremes and corrosive environments demand toughness from a lightweight enclosure. Providing excellent ultraviolet protection and a tight environmental seal, these versatile, feature-rich enclosures are also recyclable.

SPECIFICATIONS

- Non-glass-filled polyester material offers superior UV resistance; eliminates fiberbloom associated with fiberglass
- Provides excellent chemical resistance to a broad range of solvents, alkalis and acids
- Resists cracking and provides excellent impact resistance
- Lighter weight than fiberglass
- Recyclable
- Easy, dustless in-field modifications using standard tools
- Overlapping tongue-and-groove raised cover and gasket provide a secure Type 4X seal
- Removable snap-hinge cover allows for easy access to cover and body for modifications
- Molded layout grid on inside of body and solid covers assists with component mounting
- Molded-in embosses for rear panel mounting
- Optional cover screws included with all models
- Internal rail system and adjustable panel blocks allow for panel height adjustment and installation of multiple panels
- Scratch-resistant polycarbonate windows
- Standard models include body and cover, two mounting feet, two latch assemblies with optional cover screws and hardware (adjustable panel blocks and panels sold separately)

FINISH

Standard finish is RAL 7035 light-gray textured inside and out

ACCESSORIES

Adjustable Panel Block Kit, page 254
Panels for Junction Boxes, page 1330
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Aluminum Swing-Out Panels, page 254
Stainless Steel Latches (Padlockable), page 255
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MODIFICATION AND CUSTOMIZATION

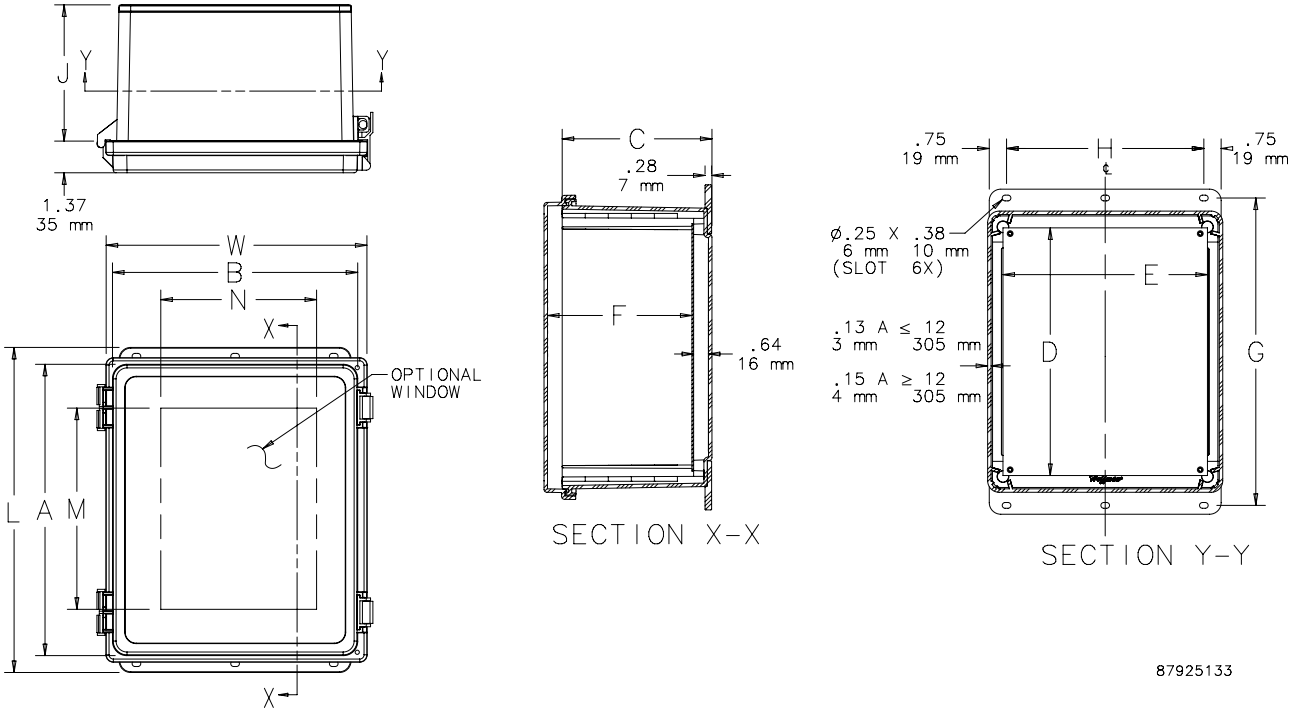
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: PCR

Standard Product

Catalog Number	AxBxC in./mm	Cover Type	Steel Panel	Aluminum Panel	Panel Size D x E in./mm	F in./mm	G in./mm	H in./mm	J in./mm	L in./mm	M in./mm	N in./mm	W in./mm
A644PHC	6.12 x 4.12 x 4.38 155 x 105 x 111	Solid	A6P4	A6P4AL	4.88 x 2.88 124 x 73	4.32 110	7.38 187	2.56 65	3.91 99	8.15 207	— —	— —	5.23 133
A644PHCW	6.12 x 4.12 x 4.38 155 x 105 x 111	Window	A6P4	A6P4AL	4.88 x 2.88 124 x 73	4.32 110	7.38 187	2.56 65	3.91 99	8.15 207	4.25 108	2.25 57	5.23 133
A664PHC	6.12 x 6.12 x 4.38 155 x 155 x 111	Solid	A6P6	A6P6AL	4.88 x 4.88 124 x 124	4.32 110	7.38 187	4.56 116	3.91 99	8.15 207	— —	— —	7.23 184
A664PHCW	6.12 x 6.12 x 4.38 155 x 155 x 111	Window	A6P6	A6P6AL	4.88 x 4.88 124 x 124	4.32 110	7.38 187	4.56 116	3.91 99	8.15 207	4.25 108	4.25 108	7.23 184
A864PHC	8.12 x 6.12 x 4.38 206 x 155 x 111	Solid	A8P6	A8P6AL	6.75 x 4.88 171 x 124	4.32 110	9.38 238	4.56 116	3.91 99	10.15 258	— —	— —	7.23 184
A864PHCW	8.12 x 6.12 x 4.38 206 x 155 x 111	Window	A8P6	A8P6AL	6.75 x 4.88 171 x 124	4.32 110	9.38 238	4.56 116	3.91 99	10.15 258	6.25 159	4.25 108	7.23 184
A884PHC	8.12 x 8.12 x 4.38 206 x 206 x 111	Solid	A8P8	A8P8AL	6.75 x 6.88 171 x 175	4.32 110	9.38 238	6.56 167	3.91 99	10.15 258	— —	— —	9.23 234
A884PHCW	8.12 x 8.12 x 4.38 206 x 206 x 111	Window	A8P8	A8P8AL	6.75 x 6.88 171 x 175	4.32 110	9.38 238	6.56 167	3.91 99	10.15 258	6.25 159	6.25 159	9.23 234
A1084PHC	10.12 x 8.12 x 4.38 257 x 155 x 111	Solid	A10P8	A10P8AL	8.75 x 6.88 222 x 175	4.32 110	11.38 289	6.56 167	3.91 99	12.15 309	— —	— —	9.23 234
A1084PHCW	10.12 x 8.12 x 4.38 257 x 155 x 111	Window	A10P8	A10P8AL	8.75 x 6.88 222 x 175	4.32 110	11.38 289	6.56 167	3.91 99	12.15 309	8.25 210	6.25 159	9.23 234
A10106PHC	10.04 x 10.04 x 6.38 255 x 255 x 162	Solid	A10P10	A10P10AL	8.75 x 8.88 222 x 226	6.32 161	11.31 287	8.56 217	5.91 150	12.08 307	— —	— —	11.23 285
A10106PHCW	10.04 x 10.04 x 6.38 255 x 255 x 162	Window	A10P10	A10P10AL	8.75 x 8.88 222 x 226	6.32 161	11.31 287	8.56 217	5.91 150	12.08 307	8.25 210	8.25 210	11.23 285
A12106PHC	12.08 x 10.09 x 6.38 307 x 256 x 162	Solid	A12P10	A12P10AL	10.75 x 8.88 273 x 226	6.32 161	13.34 339	8.56 217	5.91 150	14.08 358	— —	— —	11.23 285
A12106PHCW	12.08 x 10.09 x 6.38 307 x 256 x 162	Window	A12P10	A12P10AL	10.75 x 8.88 273 x 226	6.32 161	13.34 339	8.56 217	5.91 150	14.08 358	10.25 260	8.25 210	11.23 285
A14128PHC	14.02 x 12.01 x 8.35 356 x 305 x 212	Solid	A14P12	A14P12AL	12.75 x 10.88 324 x 276	8.27 210	15.27 388	10.56 268	7.91 201	16.04 407	— —	— —	13.32 338
A14128PHCW	14.02 x 12.01 x 8.35 356 x 305 x 212	Window	A14P12	A14P12AL	12.75 x 10.88 324 x 276	8.27 210	15.27 388	10.56 268	7.91 201	16.04 407	12.25 311	10.25 260	13.32 338
A16148PHC	16.02 x 14.01 x 8.35 407 x 356 x 212	Solid	A16P14	A16P14AL	14.75 x 12.88 375 x 327	8.27 210	17.27 439	12.56 319	7.91 201	18.04 458	— —	— —	15.32 389
A16148PHCW	16.02 x 14.01 x 8.35 407 x 356 x 212	Window	A16P14	A16P14AL	14.75 x 12.88 375 x 327	8.27 210	17.27 439	12.56 319	7.91 201	18.04 458	14.25 362	12.25 311	15.32 389
A181610PHC	17.95 x 15.94 x 10.35 456 x 405 x 263	Solid	A18P16	A18P16AL	16.75 x 14.88 425 x 378	10.27 261	19.20 488	14.56 370	9.91 252	19.97 507	— —	— —	17.32 440
A181610PHCW	17.95 x 15.94 x 10.35 456 x 405 x 263	Window	A18P16	A18P16AL	16.75 x 14.88 425 x 378	10.27 261	19.20 488	14.56 370	9.91 252	19.97 507	16.25 413	14.25 362	17.32 440

Purchase panels separately. Panels are available in aluminum, mild steel, stainless steel, conductive and composite materials.



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POLYPRO WIFI, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A
Window flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186; Type 4, 4X, 12, 13 (solid covers only)
IEC 60529, IP66

APPLICATION

POLYPRO WiFi enclosures provide protection for wireless equipment in both indoor and outdoor locations. The polyester construction and wood panel allow WiFi and WLAN signals to pass through the enclosure unimpeded. POLYPRO performs exceptionally well in applications where harsh chemicals, weather extremes, a corrosive environment or flames demand toughness from a lightweight enclosure. Providing excellent ultraviolet protection and a tight environmental seal, these versatile, feature-rich enclosures are also recyclable.

FEATURES

- Non-glass-filled polyester material offers superior UV resistance; eliminates fiberbloom associated with fiberglass
- Provides excellent chemical resistance to a broad range of solvents, alkalis and acids
- Resists cracking and provides excellent impact resistance
- Lighter weight than fiberglass
- Recyclable
- Easy, dustless in-field modifications using standard tools
- Overlapping tongue-and-groove raised cover and gasket provide secure Type 4X seal
- Removable snap-hinge cover allows for easy access to cover and body for modifications
- Molded layout grid on inside of body and solid covers assists with component mounting
- Molded-in embosses for rear panel mounting
- Internal rail system and adjustable panel blocks allow for panel height adjustment and installation of multiple panels

SPECIFICATIONS

- Scratch-resistant polycarbonate windows
- Standard models include body and cover, two mounting feet, two latch assemblies with optional cover screws and hardware, and 3/4-in. plywood panel

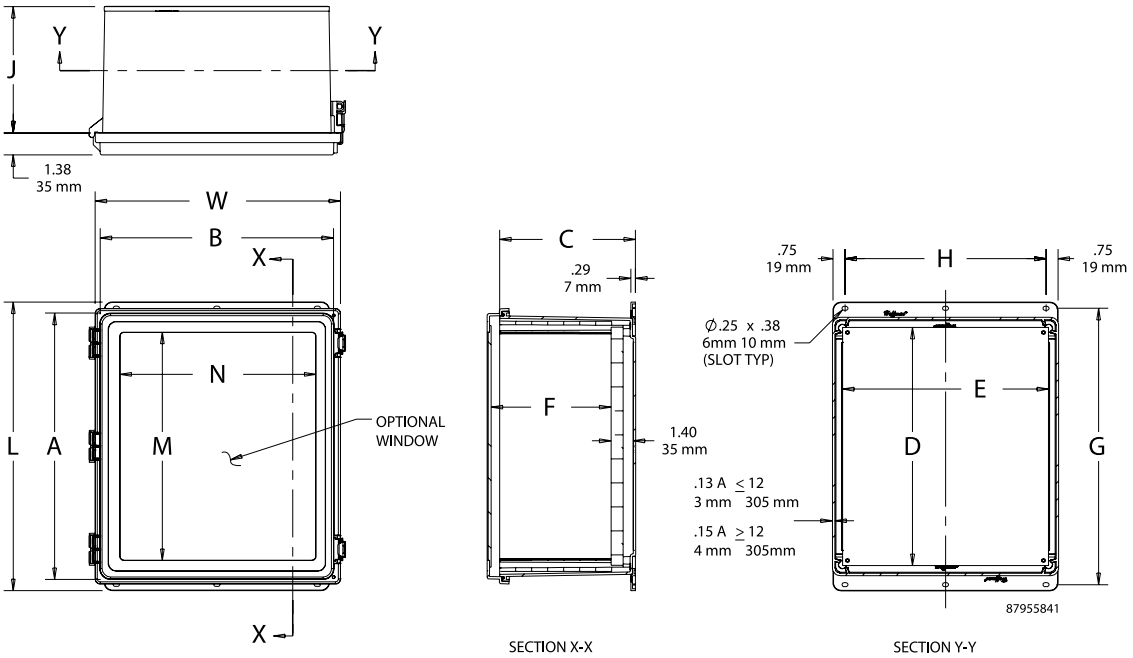
FINISH

Polyester material is RAL 7035 light-gray textured finish inside and out

BULLETIN: DWS12

Standard Product

Catalog Number	AxBxC in./mm	Door Type	Panel Size D x E in./mm	F in./mm	G in./mm	H in./mm	J in./mm	L in./mm	M in./mm	N in./mm	W in./mm
D664WF	6.12 x 6.12 x 4.38 155 x 155 x 111	Solid	4.88 x 4.88 124 x 124	4.32 110	7.38 187	2.56 65	3.91 99	8.15 207	— —	— —	5.23 133
D664WFW	6.12 x 6.12 x 4.38 155 x 155 x 111	Window	4.88 x 4.88 124 x 124	4.32 110	7.38 187	2.56 65	3.91 99	8.15 207	4.25 108	2.25 57	5.23 133
D16148WF	16.12 x 14.01 x 8.35 409 x 356 x 212	Solid	14.75 x 12.88 375 x 327	8.27 210	17.27 439	12.56 319	7.91 201	18.04 458	— —	— —	15.32 389
D16148WFW	16.12 x 14.01 x 8.35 409 x 356 x 212	Window	14.75 x 12.88 375 x 327	8.27 210	17.27 439	12.56 319	7.91 201	18.04 458	14.25 362	12.25 311	15.32 389



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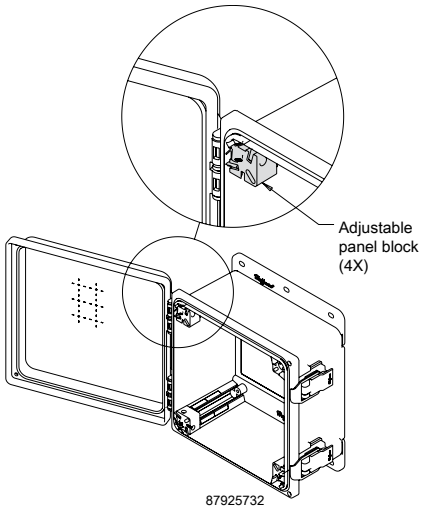
ADJUSTABLE PANEL BLOCK KIT

Panel blocks slide inside POLYPRO's internal rail system for panel height adjustment within top 5 in. of enclosure. Allows for installation of multiple panels.

BULLETIN: PCRY

Catalog Number	Qty.
APNLBLK	4

Includes Allen wrench

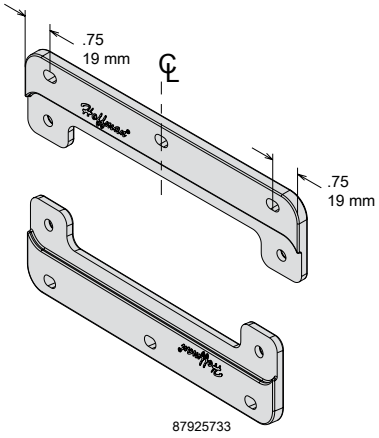


POLYESTER MOUNTING BRACKET KITS

Replacement POLYPRO mounting brackets are sold in sets of two and include hardware for mounting to enclosure.
Included with standard POLYPRO models.

BULLETIN: PCRY

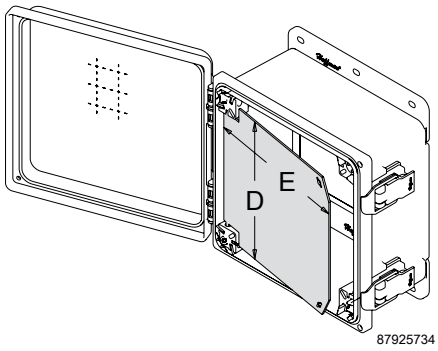
Catalog Number	Description (in.)	Qty.
APOLYFT4	4.00	2
APOLYFT6	6.00	2
APOLYFT8	8.00	2
APOLYFT10	10.00	2
APOLYFT12	12.00	2
APOLYFT14	14.00	2
APOLYFT16	16.00	2



ALUMINUM SWING-OUT PANELS

Includes four POLYPRO Adjustable Panel Blocks. No enclosure modification is required for installation.

BULLETIN: PCRY



Catalog Number	D x E (in.)	D x E (mm)
A64PSWPNL	5.00 x 3.62	127 x 92
A66PSWPNL	5.00 x 5.62	127 x 143
A86PSWPNL	7.00 x 5.62	178 x 143
A88PSWPNL	7.00 x 7.62	178 x 194
A108PSWPNL	9.00 x 7.62	229 x 194
A1010PSWPNL	9.00 x 9.62	229 x 244
A1210PSWPNL	11.00 x 9.62	279 x 244
A1412PSWPNL	13.00 x 11.62	330 x 295
A1614PSWPNL	15.00 x 13.62	381 x 346
A1816PSWPNL	17.00 x 15.62	432 x 397

STAINLESS STEEL LATCHES (PADLOCKABLE)

Stainless Steel Latches can be retrofitted on all POLYPRO models with no modification or drilling required. Hinge/latch constructed of corrosion-resistant polyester with a Type 316L stainless steel bail.
Included with standard POLYPRO models.

BULLETIN: PCRY

Catalog Number	Qty.
AQRLSS6	2

HINGE RETAINERS

Hinge Retainers can be field-installed without modification to POLYPRO hinges for applications where cover removal is not desired. Two retainers per enclosure is recommended. Kit includes ten hinge retainers.

BULLETIN: PCRY

Catalog Number	Description	Pkg. Qty.
AHGCLP	POLYPRO Hinge Retainers	10

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CONTINUOUS HINGE, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997 Enclosure flammability evaluated per UL 508A Window flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

The efficient design and simple construction of these enclosures make them durable in corrosive environments, yet aesthetically pleasing. Corner latches provide unobstructed access. The continuous hinge provides a secure seal, and double latching creates added security.

SPECIFICATIONS

- Compression-molded fiberglass has outstanding chemical- and temperature-resistance qualities and exhibits excellent weatherability and physical properties
- Fiberglass is easily punched, drilled, filed or sawed
- Gasket assures watertight and dust-tight seal
- Polyester mounting brackets and stainless steel attachment screws are provided with each enclosure
- Scratch-resistant polycarbonate windows are permanently bonded in place
- Molded-in-place threaded brass inserts and plated steel screws are provided for mounting optional panels and terminal block kits
- Removable hinged cover attached to body with Type 316 stainless steel hinge pin
- Screw-cover enclosures are secured with two captivated Type 316 stainless steel slotted cover screws
- Enclosures with quick-release latches have corrosion-resistant polyester latches located in corners that provide unobstructed access to enclosure
- Hinge pin and bail are corrosion-resistant Type 316 stainless steel
- Padlock provisions included in each latch
- Material is halogen free

FINISH

Standard fiberglass material finish is light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Threaded Panel Extenders, page 261
Quick-Release Latch Kit, page 261
Swing-Out Panel Kit, page 261

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A48

Standard Product **Solid Cover**

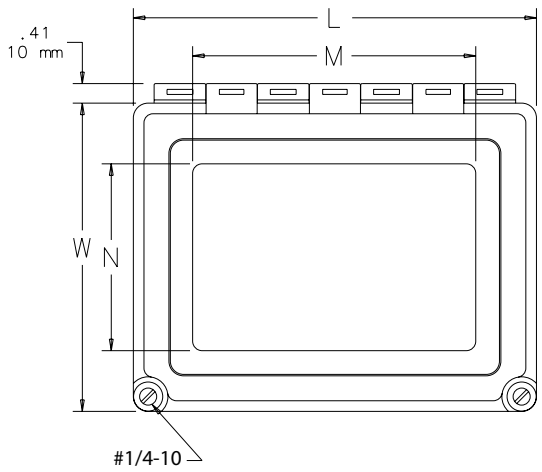
Catalog Number	AxBxC in./mm	Type	Steel Panel	Alum. Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	O in./mm	P in./mm	Q in./mm	T in./mm	U in./mm
A664CHSCFG	6.00 x 6.00 x 4.00 152 x 152 x 102	Screw Cover	A6P6	A6P6AL	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.45 88	3.25 83	1.00 25	4.25 108	4.25 108	5.64 143	0.12 3	5.64 143
A664CHQRFG	6.00 x 6.00 x 4.00 152 x 152 x 102	Quick Release	A6P6	A6P6AL	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.45 88	3.25 83	1.00 25	4.25 108	4.25 108	5.64 143	0.12 3	5.64 143
A864CHSCFG	8.00 x 6.00 x 4.00 203 x 152 x 102	Screw Cover	A8P6	A8P6AL	6.75 x 4.88 171 x 124	8.94 x 4.00 227 x 102	8.50 x 6.50 216 x 165	3.45 88	3.25 83	1.00 25	4.25 108	6.25 159	7.64 194	0.12 3	5.64 143
A864CHQRFG	8.00 x 6.00 x 4.00 203 x 152 x 102	Quick Release	A8P6	A8P6AL	6.75 x 4.88 171 x 124	8.94 x 4.00 227 x 102	8.50 x 6.50 216 x 165	3.45 88	3.25 83	1.00 25	4.25 108	6.25 159	7.64 194	0.12 3	5.64 143
A1086CHSCFG	10.00 x 8.00 x 6.00 254 x 203 x 152	Screw Cover	A10P8	A10P8AL	8.75 x 6.88 222 x 175	10.94 x 6.00 278 x 152	10.50 x 8.50 267 x 216	5.45 138	4.94 125	1.31 33	6.25 159	8.25 210	9.61 244	0.12 3	7.61 193
A1086CHQRFG	10.00 x 8.00 x 6.00 254 x 203 x 152	Quick Release	A10P8	A10P8AL	8.75 x 6.88 222 x 175	10.94 x 6.00 278 x 152	10.50 x 8.50 267 x 216	5.45 138	4.94 125	1.31 33	6.25 159	8.25 210	9.61 244	0.12 3	7.61 193
A12106CHSCFG	12.00 x 10.00 x 6.00 305 x 254 x 152	Screw Cover	A12P10	A12P10AL	10.75 x 8.88 273 x 226	12.94 x 8.00 329 x 203	12.50 x 10.50 318 x 267	5.45 138	4.69 119	1.56 40	8.25 210	10.25 260	11.58 294	0.12 3	9.58 243
A12106CHQRFG	12.00 x 10.00 x 6.00 305 x 254 x 152	Quick Release	A12P10	A12P10AL	10.75 x 8.88 273 x 226	12.94 x 8.00 329 x 203	12.50 x 10.50 318 x 267	5.45 138	4.69 119	1.56 40	8.25 210	10.25 260	11.58 294	0.12 3	9.58 243
A14128CHSCFG	14.00 x 12.00 x 8.00 356 x 305 x 203	Screw Cover	A14P12	A14P12AL	12.75 x 10.88 324 x 276	14.94 x 10.00 379 x 254	14.55 x 12.55 370 x 319	7.45 189	6.50 165	1.81 46	10.25 260	12.25 311	13.59 345	0.15 4	11.59 294
A14128CHQRFG	14.00 x 12.00 x 8.00 356 x 305 x 203	Quick Release	A14P12	A14P12AL	12.75 x 10.88 324 x 276	14.94 x 10.00 379 x 254	14.55 x 12.55 370 x 319	7.45 189	6.50 165	1.81 46	10.25 260	12.25 311	13.59 345	0.15 4	11.59 294
A16148CHSCFG	16.00 x 14.00 x 8.00 406 x 356 x 203	Screw Cover	A16P14	A16P14AL	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	7.45 189	6.23 158	2.08 53	12.25 311	14.25 362	15.56 395	0.15 4	13.56 344
A16148CHQRFG	16.00 x 14.00 x 8.00 406 x 356 x 203	Quick Release	A16P14	A16P14AL	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	7.45 189	6.23 158	2.08 53	12.25 311	14.25 362	15.56 395	0.15 4	13.56 344
A181610CHSCFG	18.00 x 16.00 x 10.00 457 x 406 x 254	Screw Cover	A18P16	A18P16AL	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	9.45 240	7.66 195	2.66 68	14.25 362	16.25 413	17.53 445	0.16 4	15.53 394
A181610CHQRFG	18.00 x 16.00 x 10.00 457 x 406 x 254	Quick Release	A18P16	A18P16AL	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	9.45 240	7.66 195	2.66 68	14.25 362	16.25 413	17.53 445	0.16 4	15.53 394
A201610CHSCFG	20.00 x 16.00 x 10.00 508 x 407 x 254	Screw Cover	A20P16J	A20P16JAL	18.75x14.88 476x378	20.94 x14.00 532x356	20.58x16.58 523x421	9.45 240	7.66 195	2.66 68	13.81 351	17.81 452	19.64 499	0.16 4	15.64 397
A201610CHQRFG	20.00 x 16.00 x 10.00 508 x 407 x 254	Quick Release	A20P16J	A20P16JAL	18.75x14.88 476x378	20.94 x14.00 532x356	20.58x16.58 523x421	9.45 240	7.66 195	2.66 68	13.81 351	17.81 452	19.64 499	0.16 4	15.64 397

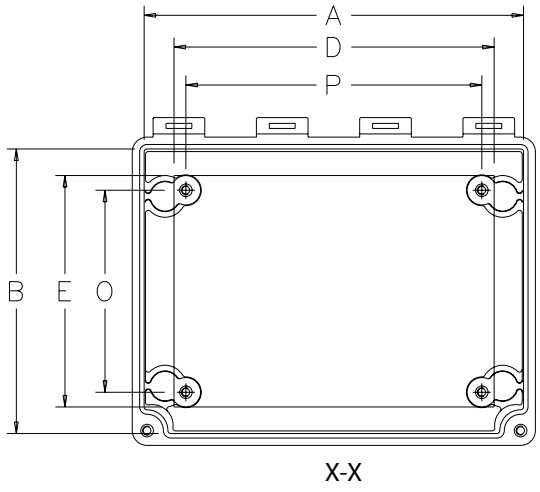
Purchase panels separately. Optional stainless steel, aluminum, conductive and composite material panels available for most sizes.

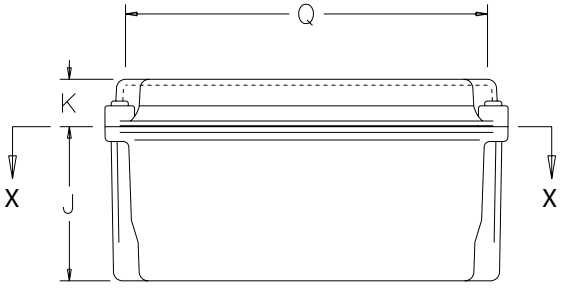
Standard Product **Window Cover**

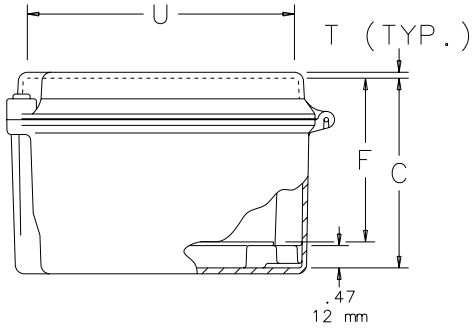
Catalog Number	AxBxC in./mm	Type	Steel Panel	Alum. Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	K in./mm	M in./mm	N in./mm	O in./mm	P in./mm	Q in./mm	T in./mm	U in./mm
A664CHSCFGW	6.00 x 6.00 x 4.00 152 x 152 x 102	Screw Cover	A6P6	A6P6AL	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.45 88	3.25 83	1.00 25	4.25 108	4.25 108	4.25 108	4.25 108	5.64 143	0.12 3	5.64 143
A664CHQRFGW	6.00 x 6.00 x 4.00 152 x 152 x 102	Quick Release	A6P6	A6P6AL	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.45 88	3.25 83	1.00 25	4.25 108	4.25 108	4.25 108	4.25 108	5.64 143	0.12 3	5.64 143
A864CHSCFGW	8.00 x 6.00 x 4.00 203 x 152 x 102	Screw Cover	A8P6	A8P6AL	6.75 x 4.88 171 x 124	8.94 x 4.00 227 x 102	8.50 x 6.50 216 x 165	3.45 88	3.25 83	1.00 25	6.25 159	4.25 108	4.25 108	6.25 159	7.64 194	0.12 3	5.64 143
A864CHQRFGW	8.00 x 6.00 x 4.00 203 x 152 x 102	Quick Release	A8P6	A8P6AL	6.75 x 4.88 171 x 124	8.94 x 4.00 227 x 102	8.50 x 6.50 216 x 165	3.45 88	3.25 83	1.00 25	6.25 159	4.25 108	4.25 108	6.25 159	7.64 194	0.12 3	5.64 143
A1086CHSCFGW	10.00 x 8.00 x 6.00 254 x 203 x 152	Screw Cover	A10P8	A10P8AL	8.75 x 6.88 222 x 175	10.94 x 6.00 278 x 152	10.50 x 8.50 267 x 216	5.45 138	4.94 125	1.31 33	8.25 210	6.25 159	6.25 159	8.25 210	9.61 244	0.12 3	7.61 193
A1086CHQRFGW	10.00 x 8.00 x 6.00 254 x 203 x 152	Quick Release	A10P8	A10P8AL	8.75 x 6.88 222 x 175	10.94 x 6.00 278 x 152	10.50 x 8.50 267 x 216	5.45 138	4.94 125	1.31 33	8.25 210	6.25 159	6.25 159	8.25 210	9.61 244	0.12 3	7.61 193
A12106CHSCFGW	12.00 x 10.00 x 6.00 305 x 254 x 152	Screw Cover	A12P10	A12P10AL	10.75 x 8.88 273 x 226	12.94 x 8.00 329 x 203	12.50 x 10.50 318 x 267	5.45 138	4.69 119	1.56 40	10.25 260	8.25 210	8.25 210	10.25 260	11.58 294	0.12 3	9.58 243
A12106CHQRFGW	12.00 x 10.00 x 6.00 305 x 254 x 152	Quick Release	A12P10	A12P10AL	10.75 x 8.88 273 x 226	12.94 x 8.00 329 x 203	12.50 x 10.50 318 x 267	5.45 138	4.69 119	1.56 40	10.25 260	8.25 210	8.25 210	10.25 260	11.58 294	0.12 3	9.58 243
A14128CHSCFGW	14.00 x 12.00 x 8.00 356 x 305 x 203	Screw Cover	A14P12	A14P12AL	12.75 x 10.88 324 x 276	14.94 x 10.00 379 x 254	14.55 x 12.55 370 x 319	7.45 189	6.50 165	1.81 46	12.25 311	10.25 260	10.25 260	12.25 311	13.59 345	0.15 4	11.59 294
A14128CHQRFGW	14.00 x 12.00 x 8.00 356 x 305 x 203	Quick Release	A14P12	A14P12AL	12.75 x 10.88 324 x 276	14.94 x 10.00 379 x 254	14.55 x 12.55 370 x 319	7.45 189	6.50 165	1.81 46	12.25 311	10.25 260	10.25 260	12.25 311	13.59 345	0.15 4	11.59 294
A16148CHSCFGW	16.00 x 14.00 x 8.00 406 x 356 x 203	Screw Cover	A16P14	A16P14AL	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	7.45 189	6.23 158	2.08 53	14.25 362	12.25 311	12.25 311	14.25 362	15.56 395	0.15 4	13.56 344
A16148CHQRFGW	16.00 x 14.00 x 8.00 406 x 356 x 203	Quick Release	A16P14	A16P14AL	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	7.45 189	6.23 158	2.08 53	14.25 362	12.25 311	12.25 311	14.25 362	15.56 395	0.15 4	13.56 344
A181610CHSCFGW	18.00 x 16.00 x 10.00 457 x 406 x 254	Screw Cover	A18P16	A18P16AL	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	9.45 240	7.66 195	2.66 68	16.25 413	14.25 362	14.25 362	16.25 413	17.53 445	0.16 4	15.53 394
A181610CHQRFGW	18.00 x 16.00 x 10.00 457 x 406 x 254	Quick Release	A18P16	A18P16AL	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	9.45 240	7.66 195	2.69 68	16.25 413	14.25 362	14.25 362	16.25 413	17.53 445	0.16 4	15.53 394
A201610CHSCFGW	20.00 x 16.00 x 10.00 508 x 407 x 254	Screw Cover	A20P16J	A20P16JAL	18.75x14.88 476x378	20.94 x14.00 532x356	20.58x16.58 523x421	9.45 240	7.66 195	2.69 68	18.25 464	14.25 362	13.81 351	17.81 452	19.64 499	0.16 4	15.64 397
A201610CHQRFGW	20.00 x 16.00 x 10.00 508 x 407 x 254	Quick Release	A20P16J	A20P16JAL	18.75x14.88 476x378	20.94 x14.00 532x356	20.58x16.58 523x421	9.45 240	7.66 195	2.69 68	18.25 464	14.25 362	13.81 351	17.81 452	19.64 499	0.16 4	15.64 397

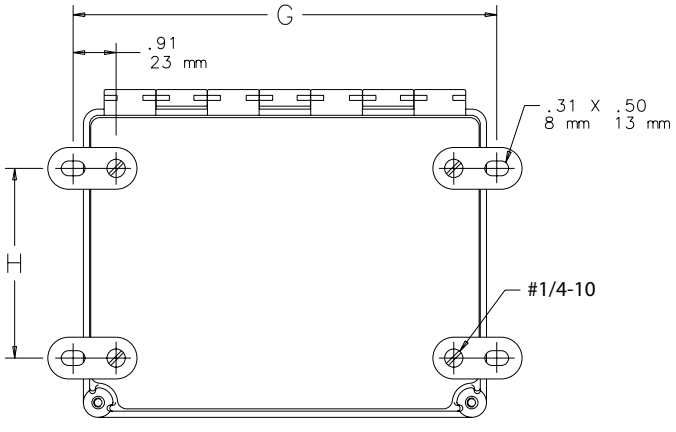
Purchase panels separately. Optional stainless steel, aluminum, conductive and composite material panels available for most sizes.

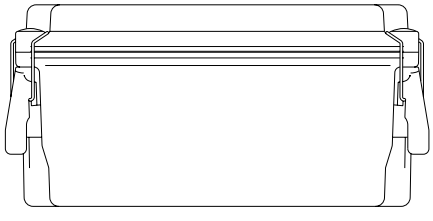












SIDE VIEW
(QUICK-RELEASE COVER ENCLOSURE)

C2567-C

HINGE-COVER WIFI, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability rating per UL 508

NEMA/EEMAC Type 4, 4X, 12, and 13
Window flammability rating per UL 508
CSA File No. LR42186:Type 4, 4X, 12, and 13
IEC 60529, IP66
Cabinets with solid doors are plenum rated.

APPLICATION

The fiberglass WiFi Cabinet is a secure, hinged enclosure that does not impede WiFi or WLAN signals. It is ideal for housing wireless equipment in locations such as building plenum space, tunnels, floor vaults, marinas, outside walls or rooftops.

FEATURES

- Fiberglass is easily punched, drilled, filed or sawed
- Gasket assures watertight and dust-tight seal
- Molded-in-place threaded brass inserts and plated steel screws are provided for mounting optional panels and terminal block kits
- Removable hinged cover attached to body with Type 316 stainless steel hinge pin
- Screw cover enclosures are secured with two captivated Type 316 stainless steel slotted cross-point cover screws
- Available quick-release latches are corrosion-resistant polyester located in corners to provide unobstructed access to enclosure
- Knockout padlock provisions included in each latch
- Material is halogen free

SPECIFICATIONS

- Enclosure and door made of molded fiberglass polyester that resists chemicals and temperature change
- Scratch-resistant GE Lexan Margard® windows are permanently bonded in place
- Polyester mounting brackets and stainless steel attachment screws are provided with each enclosure
- Hinge pin and bail are corrosion-resistant Type 316 stainless steel
- Includes a 3/4-in. plywood panel for mounting equipment

Margard is a trademark of General Electric

FINISH

Fiberglass material is light gray inside and out.

ACCESSORIES

Quick-Release Latch Kit, page 261
Swing-Out Panel Kit, page 261
Threaded Panel Extenders, page 261
Panels for WiFi Cabinets and Small Wall-Mount Enclosures, page 261

BULLETIN: DWS12

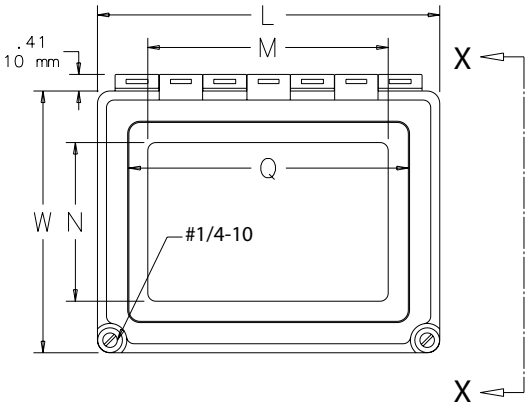
Standard Product **Solid Door**

Catalog Number	AxBxC in./mm	Panel	Panel D X E in./mm	Mounting G x H in./mm	Overall Size L x W in./mm	J in./mm	K in./mm	O in./mm	P in./mm	Q in./mm	R in./mm	T in./mm	U in./mm
D664CHSCFGP	6.00 x 6.00 x 4.00 152 x 152 x 102	A6P6WD	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.25 83	1.00 25	4.25 108	4.25 108	5.64 143	5.12 130	.12 3	5.64 143
D16148CHSCFGP	16.00 x 14.00 x 8.00 406 x 356 x 203	A16P14WD	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	6.23 158	2.08 53	12.25 311	14.25 362	15.56 395	15.12 384	.15 4	13.56 344
D181610CHSCFGP	18.00 x 16.00 x 10.00 457 x 406 x 254	A18P16WD	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	7.66 195	2.66 68	14.25 362	16.25 413	17.53 445	17.12 435	.16 4	15.53 394

Wood panels included with enclosure. Optional steel panels must be ordered separately.

Standard Product **Window Door**

Catalog Number	AxBxC in./mm	Panel	Panel D X E in./mm	Mounting G x H in./mm	Overall Size L x W in./mm	J in./mm	K in./mm	O in./mm	P in./mm	Q in./mm	R in./mm	T in./mm	U in./mm
D664CHSCFGWP	6.00 x 6.00 x 4.00 152 x 152 x 102	A6P6WD	4.88 x 4.88 124 x 124	6.94 x 4.00 176 x 102	6.50 x 6.50 165 x 165	3.25 83	1.00 25	4.25 108	4.25 108	5.64 143	5.12 130	.12 3	5.64 143
D16148CHSCFGWP	16.00 x 14.00 x 8.00 406 x 356 x 203	A16P14WD	14.75 x 12.88 375 x 327	16.94 x 12.00 430 x 305	16.55 x 14.55 420 x 370	6.23 158	2.08 53	12.25 311	14.25 362	15.56 395	15.12 384	.15 4	13.56 344
D181610CHSCFGWP	18.00 x 16.00 x 10.00 457 x 406 x 254	A18P16WD	16.75 x 14.88 425 x 378	18.94 x 14.00 481 x 356	18.58 x 16.58 472 x 421	7.66 195	2.66 68	14.25 362	16.25 413	17.53 445	17.12 435	.16 4	15.53 394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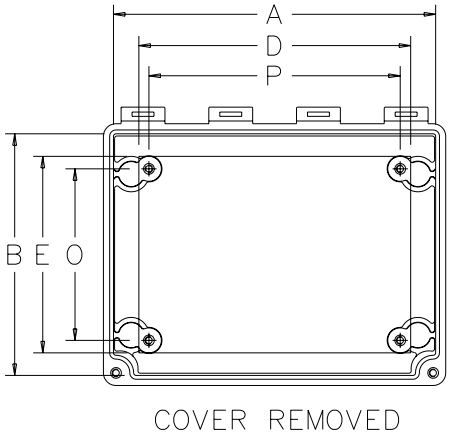
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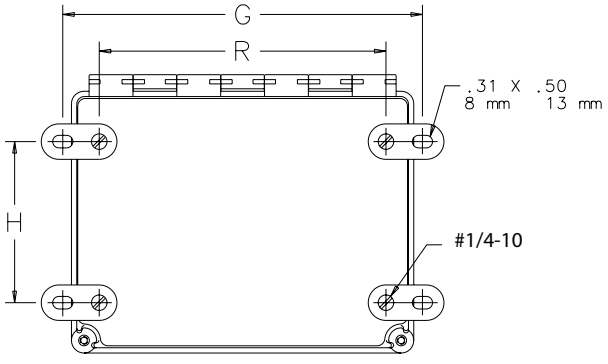
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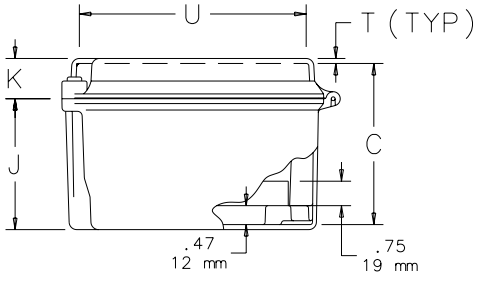
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X-X

87792464

QUICK-RELEASE LATCH KIT

Two fiberglass-reinforced gray polyester latches with 316L stainless steel bail and screw-hole plugs are included in each package. Supplied with Continuous Hinge, Type 4X enclosures and available for Fiberglass Hinged Cover WiFi Cabinet, Type 4X. Kit converts screw-cover enclosures to quick-release without modification. No tools needed to install. Padlocking provision is included.

BULLETIN: A48Y

Catalog Number	Description	Kit Qty.
AL48	Quick-Release Latch Kit	2

SWING-OUT PANEL KIT

The Swing-Out Panel Kit provides an attractive, cost-effective solution for installing front-mounted panels in Continuous Hinge, Type 4X, and Overlapping Cover, Type 4X enclosures. No drilling required.

BULLETIN: A48Y

Catalog Number	Fits Enclosure A x B (in.)	Fits Enclosure A x B (mm)
A6SPK6C	6.00 x 6.00	152 x 152
A8SPK6C	8.00 x 6.00	203 x 152
A10SPK8C	10.00 x 8.00	254 x 203
A12SPK10C	12.00 x 10.00	305 x 254
A16SPK14C	16.00 x 14.00	406 x 356
A18SPK16C	18.00 x 16.00	457 x 406
A14SPK12C	14.00 x 12.00	356 x 305

THREADED PANEL EXTENDERS

Threaded Panel Extenders are made of plated steel and designed to raise the panel mounting surface. Extenders attach to threaded internal pads. Male and female thread size is 10-32. Each kit contains 4 extenders.

BULLETIN: A80

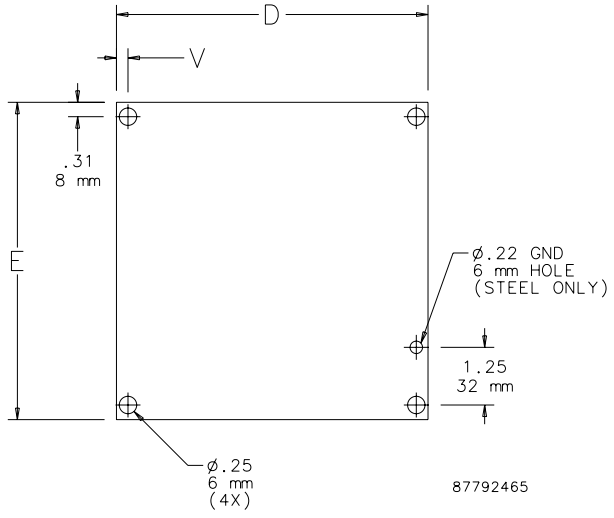
Catalog Number	Length (in.)	Length (mm)
APE050	0.50	13
APE100	1.00	25

PANELS FOR WIFI CABINETS AND SMALL WALL-MOUNT ENCLOSURES

Panels are available in both steel and wood. Steel panels are 14 gauge steel with a white polyester powder paint finish. Wood panels are 3/4-in. plywood and are unfinished. Wood panels are supplied with Fiberglass Hinged-Cover and POLYPRO Type 4X WiFi Cabinets.

BULLETIN: DWS12, PNLJ, PNLWM

Catalog Number	Material	Panel Size D x E (in.)	Panel Size D x E (mm)	V (in.)	V (mm)
A6P6	Steel	4.88 x 4.88	124 x 124	0.31	8
A6P6WD	Wood	4.88 x 4.88	124 x 124	0.31	8
A16P14	Steel	14.75 x 12.88	375 x 327	0.25	6
A16P14WD	Wood	14.75 x 12.88	375 x 327	0.25	6
A18P16	Steel	16.75 x 14.88	425 x 378	0.25	6
A18P16WD	Wood	16.75 x 14.88	425 x 378	0.25	6



nVent | HOFFMAN

RAISED COVER WITH SCREWS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 217184: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Enclosures feature a raised, overlapping-cover design that ensures a more secure seal and offers increased internal space for mounting components. Available with removable and hinged covers for application flexibility.

SPECIFICATIONS

- Compression-molded fiberglass construction
- Overlapping solid raised cover
- Cover fastens with screws
- Type 304 stainless steel piano hinges on hinged models
- Integral mounting brackets
- Enclosures protect equipment and operators from indirect electrical contact
- Material is halogen free

FINISH

Standard fiberglass material finish is RAL 7035 light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Swing-Out Panel Kit, page 261
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

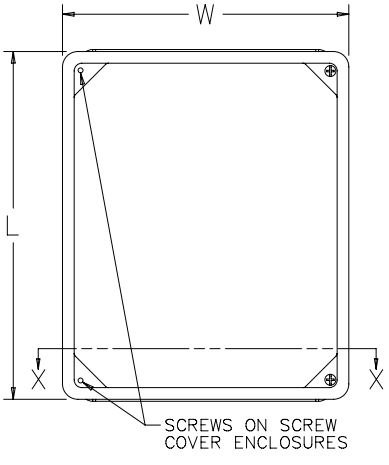
BULLETIN: HJ

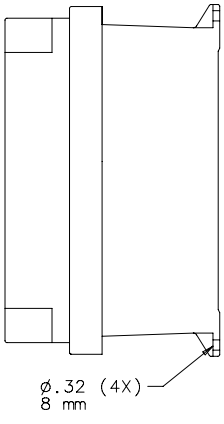
Standard Product

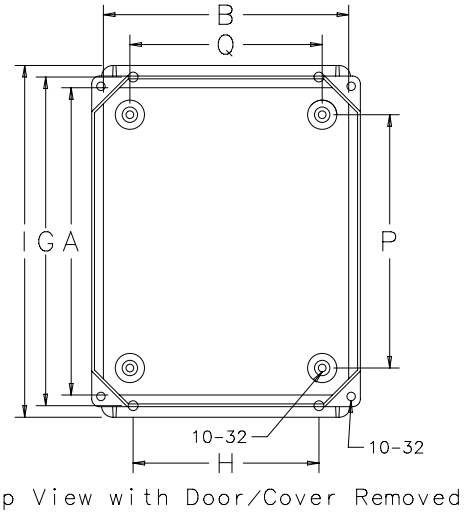
Catalog Number	AxBxC in./mm	Door Fasteners	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	P in./mm	Q in./mm	W in./mm	Steel Panel	Alum Panel	Panel Size in./mm
RHJ1008HWLG	9.70 x 7.71 x 5.91 246 x 196 x 150	Hinged, 2 screws	6.86 174	6.49 165	10.75 273	6.00 152	11.51 292	4.50 114	3.15 80	11.22 285	8.25 210	6.25 159	9.22 234	A10P8	A10P8AL	8.75 x 6.88 222 x 102
RHJ1008WLG	9.70 x 7.71 x 5.91 246 x 196 x 150	4 screws	6.86 174	6.49 165	10.75 273	6.00 152	11.51 292	4.50 114	3.15 80	11.22 285	8.25 210	6.25 159	9.22 234	A10P8	A10P8AL	8.75 x 6.88 222 x 102
RHJ1210HWLG	11.68 x 9.69 x 6.16 296 x 246 x 156	Hinged, 2 screws	7.05 179	6.73 171	12.75 324	6.00 152	13.51 343	4.66 118	3.15 80	13.22 336	10.25 260	8.25 210	11.22 285	A12P10	A12P10AL	10.75 x 8.88 273 x 226
RHJ1210WLG	11.68 x 9.69 x 6.16 296 x 246 x 156	4 screws	7.05 179	6.73 171	12.75 324	6.00 152	13.51 343	4.66 118	3.15 80	13.22 338	10.25 260	8.25 210	11.22 285	A12P10	A12P10AL	10.75 x 8.88 273 x 226
RHJ1412HWLG	13.62 x 11.62 x 7.24 346 x 295 x 184	Hinged, 2 screws	8.13 207	7.81 194	14.75 375	10.00 254	15.51 394	5.63 143	3.25 82	15.22 387	12.25 311	10.25 260	13.22 336	A14P12	A14P12AL	12.75 x 10.88 324 x 276
RHJ1412WLG	13.62 x 11.62 x 7.24 346 x 295 x 184	4 screws	8.13 207	7.81 194	14.75 375	10.00 254	15.51 394	5.63 143	3.25 82	15.22 387	12.25 311	10.25 260	13.22 336	A14P12	A14P12AL	12.75 x 10.88 324 x 276
RHJ1614HWLG	15.62 x 13.62 x 7.24 396 x 346 x 184	Hinged, 2 screws	8.13 207	7.81 194	16.75 425	12.00 305	17.51 445	5.63 143	3.25 82	17.22 437	14.25 362	12.25 311	15.22 386	A16P14	A16P14AL	14.75 x 12.88 375 x 327
RHJ1614WLG	15.62 x 13.62 x 7.24 396 x 346 x 184	4 screws	8.13 207	7.81 194	16.75 425	12.00 305	17.51 445	5.63 143	3.25 82	17.22 437	14.25 362	12.24 311	15.30 289	A16P14	A16P14AL	14.75 x 12.88 375 x 327
RHJ1816HWLG	17.48 x 15.77 x 9.44 444 x 400 x 240	Hinged, 2 screws	10.25 260	10.01 254	18.75 476	12.00 305	19.51 496	7.76 197	3.25 82	19.22 488	16.25 413	14.25 362	17.22 437	A18P16	A18P16AL	16.75 x 14.88 425 x 378
RHJ1816WLG	17.48 x 15.77 x 9.44 444 x 400 x 240	4 screws	10.25 260	10.01 254	18.75 476	12.00 305	19.51 496	7.76 197	3.25 82	19.22 488	16.25 413	14.25 362	17.22 437	A18P16	A18P16AL	16.75 x 14.88 425 x 378

A x B x C are internal dimensions.

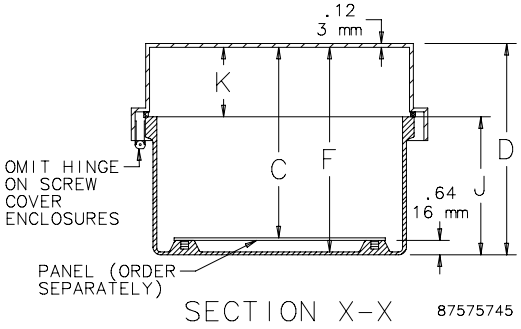
Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.







Top View with Door/Cover Removed



SECTION X-X 87575745

nVent | HOFFMAN

RAISED COVER WITH LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 217184: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Enclosures feature a raised, hinged, overlapping cover design that ensures a more secure seal and offers increased internal space for mounting components. Available with solid and window covers. Latches provide easy access and security.

SPECIFICATIONS

- Compression-molded fiberglass construction
- Overlapping raised solid and window covers
- Windows are clear polycarbonate
- Cover fastens with padlockable Type 316 stainless steel latches
- Type 304 stainless steel piano hinges
- Integral mounting brackets
- Enclosures protect equipment and operators from indirect electrical contact
- Material is halogen free

FINISH

Fiberglass material is RAL 7035 light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Swing-Out Panel Kit, page 261
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HJ

Standard Product

Catalog Number	AxBxC in./mm	No. of Latches	Window Size M x N in./mm	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	P in./mm	Q in./mm	W in./mm
RHJB1008HWPL1LG	9.70 x 7.71 x 5.91 246 x 196 x 150	1	8.00 x 6.00 203 x 152	6.86 174	6.49 165	10.75 273	6.00 152	11.51 292	4.50 114	3.15 80	11.22 285	8.25 210	6.25 159	9.22 234
RHJB1210HWPL2LG	11.68 x 9.69 x 6.16 296 x 246 x 156	2	10.00 x 8.00 254 x 203	7.05 179	6.73 171	12.75 324	8.00 203	13.51 343	4.66 118	3.15 80	13.22 336	10.25 260	8.25 210	11.22 285
RHJB1412HWPL2LG	13.62 x 11.62 x 7.24 346 x 295 x 184	2	12.00 x 10.00 305 x 254	8.13 207	7.81 194	14.75 375	10.00 254	15.50 394	5.63 143	3.25 82	15.32 387	12.25 311	10.25 260	13.22 336
RHJB1614HWPL2LG	15.62 x 13.62 x 7.24 396 x 346 x 184	2	14.00 x 12.00 356 x 305	8.13 207	7.81 194	16.75 425	12.00 305	17.51 445	5.63 143	3.25 82	17.22 437	14.25 362	12.25 311	15.22 386
RHJ1008HWPL1LG	9.70 x 7.71 x 5.91 246 x 196 x 150	1	--- ---	6.86 174	6.49 165	10.75 273	6.00 152	11.51 292	4.50 114	3.15 80	11.22 285	8.25 210	6.25 159	9.22 234
RHJ1210HWPL2LG	11.68 x 9.69 x 6.16 296 x 246 x 156	2	--- ---	7.05 179	6.73 171	12.75 324	6.00 152	13.51 343	4.66 118	3.15 80	13.22 336	10.25 260	8.25 210	11.22 285
RHJ1412HWPL2LG	13.62 x 11.62 x 7.24 346 x 295 x 184	2	--- ---	8.13 207	7.81 194	14.75 375	10.00 254	15.51 394	5.63 143	3.25 82	15.22 387	12.25 311	10.25 260	13.22 336
RHJ1614HWPL2LG	15.62 x 13.62 x 7.24 396 x 346 x 184	2	--- ---	8.13 207	7.81 194	16.75 425	12.00 305	17.51 445	5.63 143	3.25 82	17.22 437	14.25 362	12.25 311	15.22 386
RHJ1816HWPL2LG	17.48 x 15.77 x 9.44 444 x 400 x 240	2	--- ---	10.25 260	10.01 254	18.74 476	12.00 305	19.51 496	7.76 197	3.25 82	19.22 488	16.25 413	14.25 3.62	17.22 437

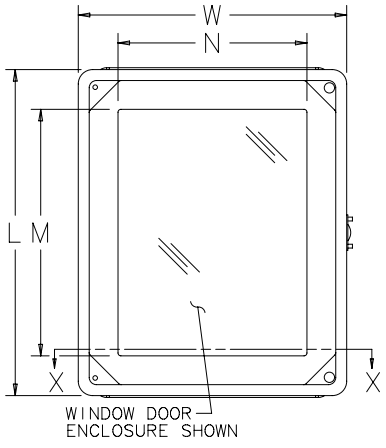
A x B x C are internal dimensions.

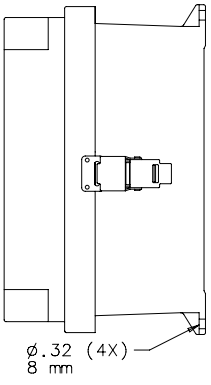
Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

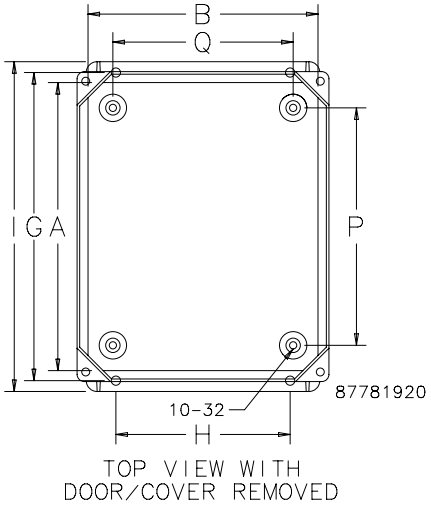
Panels

Enclosure Catalog Number	Steel Panel	Aluminum Panel	Panel Size in./mm
RHJB1008HWPL1LG	A10P8	A10P8AL	8.75 x 6.88 222 x 102
RHJB1210HWPL2LG	A12P10	A12P10AL	10.75 x 8.88 273 x 226
RHJB1412HWPL2LG	A14P12	A14P12AL	12.75 x 10.88 324 x 276
RHJB1614HWPL2LG	A16P14	A16P14AL	14.75 x 12.88 375 x 327
RHJ1008HWPL1LG	A10P8	A10P8AL	8.75 x 6.88 222 x 102
RHJ1210HWPL2LG	A12P10	A12P10AL	10.75 x 8.88 273 x 226
RHJ1412HWPL2LG	A14P12	A14P12AL	12.75 x 10.88 324 x 276
RHJ1614HWPL2LG	A16P14	A16P14AL	14.75 x 12.88 375 x 327
RHJ1816HWPL2LG	A18P16	A18P16AL	16.75 x 14.88 425 x 378

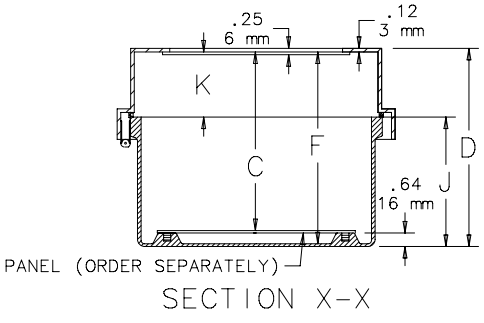
Raised Cover Window Enclosures







TOP VIEW WITH
DOOR/COVER REMOVED



SECTION X–X

nVent | HOFFMAN

FLAT COVER WITH SCREWS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 217184: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Enclosures feature a flat, overlapping cover design that ensures a more secure seal. Available with removable and hinged covers for application flexibility.

SPECIFICATIONS

- Compression-molded fiberglass construction
- Overlapping flat, solid-covers
- Cover fastens with screws
- Type 304 stainless steel piano hinges on hinged models
- Integral mounting brackets
- Enclosures protect equipment and operators from indirect electrical contact
- Material is halogen free

FINISH

Standard fiberglass material finish is RAL 7035 light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Swing-Out Panel Kit, page 261
Terminal Block Kit Assembly for Junction Boxes, page 1380

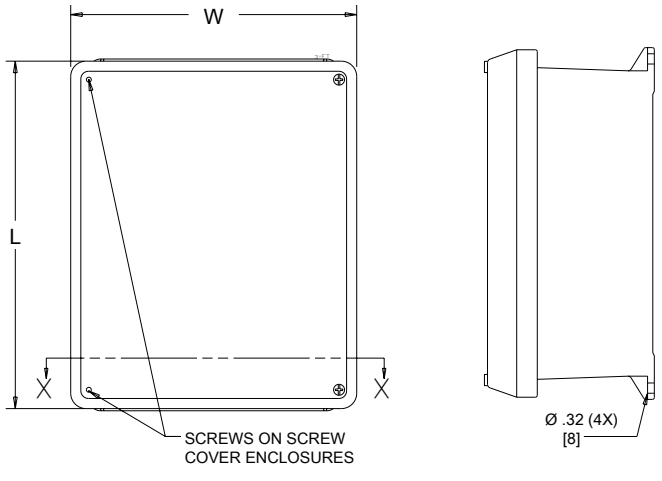
BULLETIN: HJ

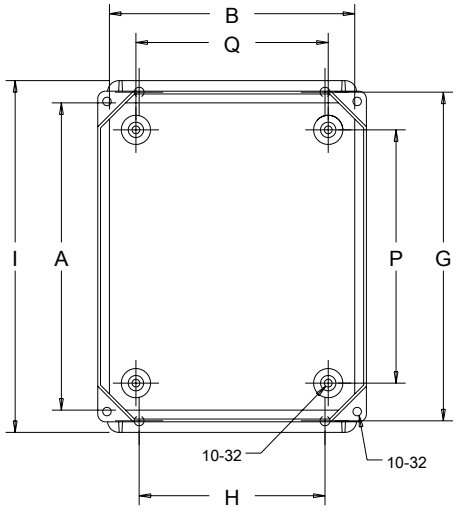
Standard Product

Catalog Number	AxBxC in./mm	Door Fasteners	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	L in./mm	P in./mm	Q in./mm	W in./mm	Steel Panel	Aluminum Panel	Panel Size in./mm
HJ606HWLG	5.71 x 5.72 x 4.05 145 x 145 x 103	Hinged, 2 screws	4.90 125	4.62 118	6.75 171	4.00 102	7.51 191	4.28 109	7.31 186	4.25 108	4.25 108	7.31 186	A6P6	A6P6AL	4.88 x 4.88 124 x 124
HJ606WLG	5.71 x 5.72 x 4.05 145 x 145 x 103	4 screws	4.90 125	4.62 118	6.75 171	4.00 102	7.51 191	4.28 109	7.31 186	4.25 108	4.25 108	7.31 186	A6P6	A6P6AL	4.88 x 4.88 124 x 124
HJ806HWLG	7.71 x 5.72 x 4.05 196 x 145 x 103	Hinged, 2 screws	4.90 125	4.62 118	8.75 222	4.00 102	9.51 242	4.28 109	9.31 236	6.25 159	4.25 108	7.31 186	A8P6	A8P6AL	6.75 x 4.88 171 x 124
HJ806WLG	7.71 x 5.72 x 4.05 196 x 145 x 103	4 screws	4.90 126	4.62 118	8.75 222	4.00 102	9.51 242	4.28 109	9.31 236	6.25 159	4.25 108	7.31 186	A8P6	A8P6AL	6.75 x 4.88 171 x 124
HJ1008HWLG	9.71 x 7.21 x 4.30 247 x 196 x 109	Hinged, 2 screws	5.15 131	4.88 125	10.75 273	6.00 152	11.51 292	4.28 109	11.25 286	8.25 210	6.24 158	9.25 235	A10P8	A10P8AL	8.75 x 6.88 222 x 102
HJ1008WLG	9.71 x 7.21 x 4.30 247 x 196 x 109	4 screws	5.15 131	4.88 125	10.75 273	6.00 152	11.51 292	4.28 109	11.25 286	8.25 210	6.24 158	9.25 235	A10P8	A10P8AL	8.75 x 6.88 222 x 102
HJ1210HWLG	11.68 x 9.69 x 4.62 297 x 246 x 117	Hinged, 2 screws	5.42 138	5.20 132	12.75 324	8.00 203	13.51 343	4.66 118	13.23 336	10.25 260	8.25 210	11.23 285	A12P10	A12P10AL	10.75 x 8.88 273 x 226
HJ1210WLG	11.68 x 9.69 x 4.62 297 x 246 x 117	4 screws	5.42 138	5.20 132	12.75 324	8.00 203	13.51 343	4.66 118	13.23 336	10.25 260	8.25 210	11.23 285	A12P10	A12P10AL	10.75 x 8.88 2.73 x 226
HJ1412HWLG	13.81 x 11.81 x 5.99 351 x 300 x 152	Hinged, 2 screws	6.79 172	6.44 164	14.75 375	10.00 254	15.51 394	5.63 143	15.29 388	10.25 260	12.25 311	13.29 338	A14P12	A14P12AL	12.75 x 10.88 324 x 276
HJ1412WLG	13.81 x 11.81 x 5.99 351 x 300 x 152	4 screws	6.79 172	6.44 164	14.75 375	10.00 254	15.51 394	5.63 143	15.29 388	10.25 260	12.25 311	13.29 338	A14P12	A14P12AL	12.75 x 10.88 324 x 276
HJ1614HWLG	15.81 x 13.81 x 5.99 402 x 351 x 152	Hinged, 2 screws	6.68 170	6.44 164	16.75 425	12.00 305	17.51 445	5.63 143	17.29 439	14.25 362	12.25 311	15.29 388	A16P14	A16P14AL	14.75 x 12.88 3.75 x 327
HJ1614WLG	15.81 x 13.81 x 5.99 402 x 351 x 152	4 screws	6.68 170	6.44 164	16.75 425	12.00 305	17.51 445	5.63 143	17.29 439	14.25 362	12.25 311	15.29 388	A16P14	A16P14AL	14.75 x 12.88 375 x 327
HJ1816HWLG	17.81 x 15.81 x 8.86 452 x 402 x 225	Hinged, 2 screws	9.55 243	9.32 237	18.75 476	12.00 305	19.51 495	8.56 217	19.29 790	16.25 413	14.25 362	17.29 439	A18P16	A18P16AL	16.75 x 14.88 425 x 378
HJ1816WLG	17.81 x 15.81 x 8.86 452 x 402 x 225	4 screws	9.55 243	9.32 237	18.75 476	12.00 305	19.51 495	8.56 217	19.29 790	16.25 413	14.25 362	17.29 439	A18P16	A18P16AL	16.75 x 14.88 375 x 378

A x B x C are internal dimensions.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.





TOP VIEW WITH DOOR/COVER REMOVED

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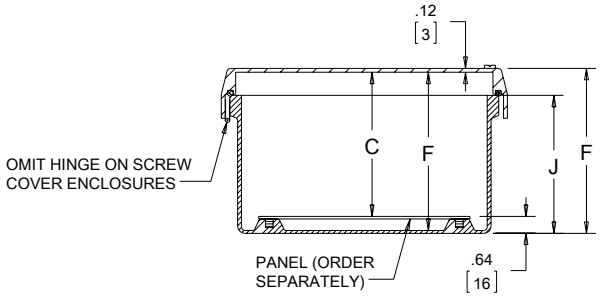


SECTION X-X

nVent | HOFFMAN

FLAT COVER WITH LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 217184: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Enclosures feature a flat, overlapping cover design that ensures a more secure seal. Available with solid and window covers. Latches provide easy access and security.

SPECIFICATIONS

- Compression-molded fiberglass construction
- Overlapping solid- and window-cover models are available
- Windows are clear polycarbonate
- Cover fastens with padlockable Type 316 stainless steel latches
- Type 304 stainless steel piano hinges
- Integral mounting brackets
- Enclosures protect equipment and operators from indirect electrical contact
- Material is halogen free

FINISH

Standard fiberglass material is RAL 7035 light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Swing-Out Panel Kit, page 261
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HJ

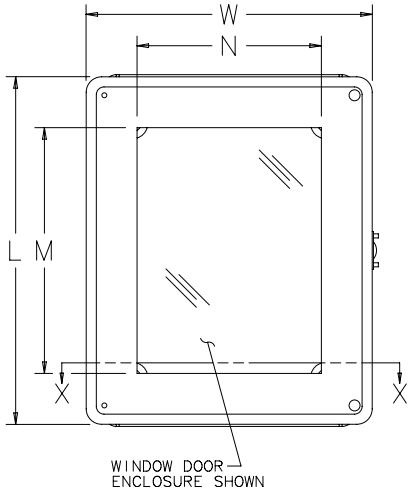
Standard Product

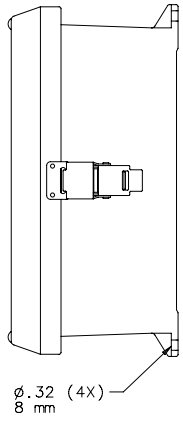
Catalog Number	AxBxC in./mm	No. of Latches	Window Size M x N in./mm	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	P in./mm	Q in./mm	W in./mm	Steel Panel	Aluminum Panel	Panel Size in./mm
HJ606HWPL1LG	5.71 x 5.72 x 4.05 145 x 145 x 103	1	— —	4.90 125	4.62 118	6.75 171	4.00 102	7.51 191	4.28 109	1.38 35	6.00 152	4.25 108	4.25 108	5.97 152	A6P6	A6P6AL	4.88 x 4.88 124 x 124
HJ806HWPL1LG	7.71 x 5.72 x 4.05 196 x 145 x 103	1	— —	4.90 126	4.62 118	8.75 222	4.00 102	9.51 242	4.28 109	1.38 35	9.31 236	6.25 159	4.25 108	7.31 186	A8P6	A8P6AL	6.75 x 4.88 171 x 124
HJ1008HWPL1LG	9.71 x 7.21 x 4.30 247 x 196 x 109	1	— —	5.15 131	4.88 125	10.75 273	6.00 152	11.51 292	4.28 109	1.67 42	11.25 286	8.25 210	6.24 158	9.25 235	A10P8	A10P8AL	8.75 x 6.88 222 x 102
HJ1210HWPL2LG	11.68 x 9.69 x 4.62 297 x 246 x 117	2	— —	5.42 138	5.20 132	12.75 324	8.00 203	13.51 343	4.66 118	1.75 45	13.23 336	10.25 260	8.25 210	11.23 285	A12P10	A12P10AL	10.75 x 8.88 273 x 226
HJ1412HWPL2LG	13.81 x 11.81 x 5.99 351 x 300 x 152	2	— —	6.79 172	6.44 142	14.75 375	10.00 254	15.51 940	5.63 143	1.75 45	15.29 388	10.24 260	12.26 311	13.29 338	A14P12	A14P12AL	12.75 x 10.88 324 x 276
HJ1614HWPL2LG	15.81 x 13.81 x 5.99 402 x 351 x 152	2	— —	6.68 170	6.44 164	16.75 425	12.00 305	17.51 445	5.63 143	1.75 45	17.29 439	14.25 363	12.25 311	15.29 388	A16P14	A16P14AL	14.75 x 12.88 375 x 327
HJ1816HWPL2LG	17.81 x 15.81 x 8.86 452 x 402 x 225	2	— —	9.55 243	9.32 237	18.75 476	12.00 305	19.51 495	8.56 217	1.75 45	19.29 790	16.25 413	14.25 362	17.29 439	A18P16	A18P16AL	16.75 x 14.88 425 x 378
HJB606HWPL1LG	5.71 x 5.72 x 4.05 145 x 145 x 103	1	4.00 x 4.00 102 x 102	4.90 125	4.62 118	6.75 171	4.00 102	7.51 191	4.28 109	1.38 35	6.00 152	4.25 108	4.25 108	5.97 152	A6P6	A6P6AL	4.88 x 4.88 124 x 124
HJB806HWPL1LG	7.71 x 5.72 x 4.05 196 x 145 x 103	1	6.00 x 4.00 152 x 102	4.90 125	4.62 118	8.75 222	4.00 102	9.51 252	4.28 109	1.38 35	9.31 236	6.25 159	4.25 108	7.31 186	A8P6	A8P6AL	6.75 x 1.88 171 x 124
HJB1008HWPL1LG	9.71 x 7.21 x 4.30 247 x 196 x 109	1	8.00 x 6.00 203 x 152	5.15 131	4.88 125	10.75 273	6.00 152	11.51 292	4.28 109	1.67 42	11.25 286	8.25 210	6.24 158	9.25 236	A10P8	A10P8AL	8.75 x 6.88 222 x 102
HJB1210HWPL2LG	11.68 x 9.69 x 4.62 297 x 246 x 117	2	10.00 x 8.00 254 x 203	5.42 138	5.20 132	12.75 324	8.00 203	13.51 343	4.66 118	1.75 45	13.23 336	10.25 260	8.25 210	11.23 285	A12P10	A12P10AL	10.78 x 8.88 273 x 226
HJB1412HWPL2LG	13.81 x 11.81 x 5.99 351 x 300 x 152	2	12.00 x 10.00 305 x 254	6.79 172	6.44 164	14.75 375	10.00 254	15.51 940	5.63 143	1.75 45	15.29 388	10.24 260	12.26 311	13.29 338	A14P12	A14P12AL	12.75 x 10.88 324 x 276
HJB1614HWPL2LG	15.81 x 13.81 x 5.99 402 x 351 x 152	2	14.00 x 12.00 356 x 305	6.68 170	6.44 164	16.75 425	12.00 305	17.51 445	5.63 143	1.75 45	17.29 439	14.25 363	12.25 311	15.29 388	A16P14	A16P14AL	14.75 x 12.88 375 x 327
HJB1816HWPL2LG	17.81 x 15.81 x 8.86 452 x 402 x 225	2	16.00 x 14.00 406 x 356	9.55 243	9.32 237	18.75 476	12.00 305	19.51 495	8.56 217	1.75 45	19.29 490	16.25 413	14.25 362	17.29 439	A18P16	A18P16AL	16.75 x 14.88 425 x 378

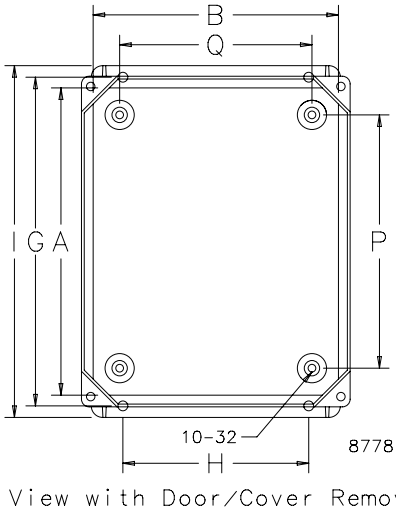
A x B x C are internal dimensions.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

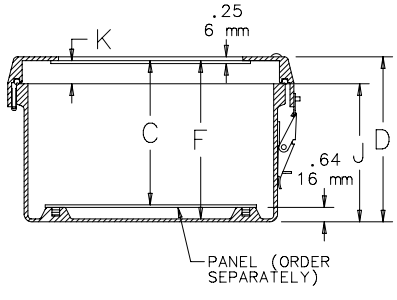
Flat Cover Window Enclosures







Top View with Door/Cover Removed



SECTION X–X

nVent | HOFFMAN

FLAT CLEAR COVER WITH LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E54315
Enclosure flammability per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 217184: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Enclosures feature a flat, overlapping clear cover design that ensures a more secure seal and provides a larger viewing area than a traditional window. Latches provide easy access and security.

SPECIFICATIONS

- Compression-molded fiberglass construction
- Clear polycarbonate viewing area
- Cover fastens with padlockable Type 316 stainless steel latches
- Type 304 stainless steel piano hinges
- Integral mounting brackets
- Enclosures protect equipment and operators from indirect electrical contact
- Material is halogen free

FINISH

Standard fiberglass material is RAL 7035 light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Junction Boxes, page 1330
Swing-Out Panel Kit, page 261
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HJ

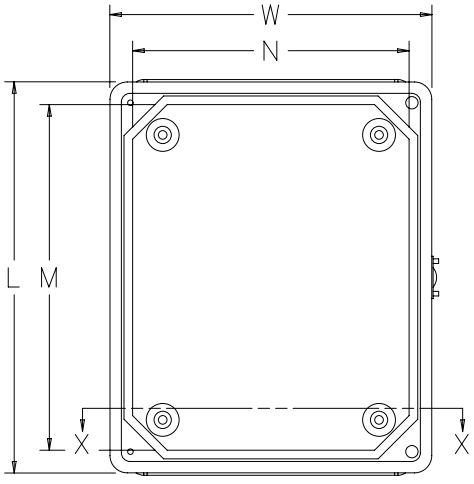
Standard Product

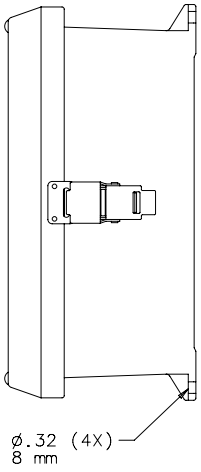
Catalog Number	AxBxC in./mm	No. of Latches	Window Size N x M in./mm	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	P in./mm	Q in./mm	W in./mm	Steel Panel	Aluminum Panel	Panel Size in./mm
CHJ606HWPL1LG	5.71 x 5.72 x 4.05 145 x 145 x 103	1	6.00 x 6.00 152 x 152	4.90 125	4.62 118	6.75 171	4.00 102	7.51 191	4.28 109	1.38 35	6.00 152	4.25 108	4.25 108	5.97 152	A6P6	A6P6AL	4.88 x 4.88 124 x 124
CHJ806HWPL1LG	7.71 x 5.72 x 4.05 196 x 145 x 103	1	8.00 x 6.00 203 x 152	4.90 125	4.62 118	8.75 222	4.00 102	9.51 242	4.28 109	1.38 35	9.31 236	6.25 159	4.25 108	7.31 186	A8P6	A8P6AL	6.75 x 4.88 171 x 124
CHJ1008HWPL1LG	9.71 x 7.21 x 4.30 247 x 196 x 109	1	10.00 x 8.00 254 x 203	5.15 131	4.88 124	10.75 273	6.00 152	11.51 292	4.28 109	1.67 42	11.25 286	8.25 210	6.24 158	9.25 235	A10P8	A10P8AL	8.75 x 6.88 222 x 102
CHJ1210HWPL2LG	11.68 x 9.69 x 4.62 297 x 246 x 117	2	12.00 x 10.00 305 x 254	5.42 138	5.20 132	12.75 324	8.00 203	13.51 343	4.66 118	1.77 45	13.23 336	10.25 260	8.25 210	11.23 285	A12P10	A12P10AL	10.75 x 8.88 273 x 226
CHJ1412HWPL2LG	13.81 x 11.81 x 5.99 351 x 300 x 152	2	14.00 x 12.00 356 x 305	6.79 172	6.44 164	14.75 375	10.00 254	15.51 394	5.63 143	1.75 45	15.29 388	10.25 260	10.25 260	13.29 338	A14P12	A14P12AL	12.75 x 10.88 324 x 276
CHJ1614HWPL2LG	15.81 x 13.81 x 5.99 402 x 351 x 152	2	16.00 x 14.00 406 x 356	6.68 170	6.44 164	16.75 425	12.00 305	17.51 445	5.63 143	1.75 45	17.29 439	14.25 363	12.25 311	15.29 388	A16P14	A16P14AL	14.75 x 12.88 375 x 327
CHJ1816HWPL2LG	17.81 x 15.81 x 8.86 452 x 402 x 225	2	18.00 x 16.00 457 x 406	9.55 243	9.32 237	18.75 476	12.00 305	19.51 495	8.56 217	1.75 45	19.29 790	16.25 413	14.25 362	17.29 439	A18P16	A18P16AL	16.75 x 14.88 425 x 378

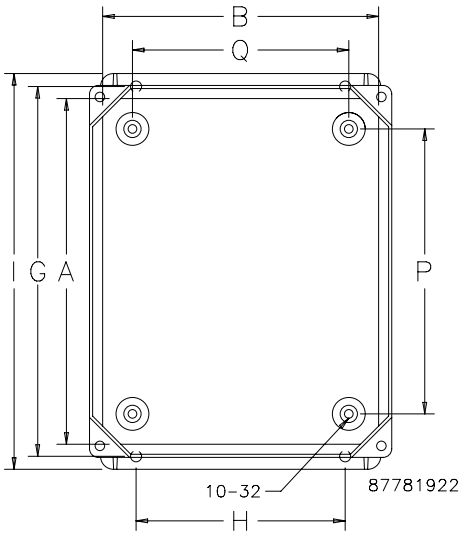
A x B x C are internal dimensions.

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

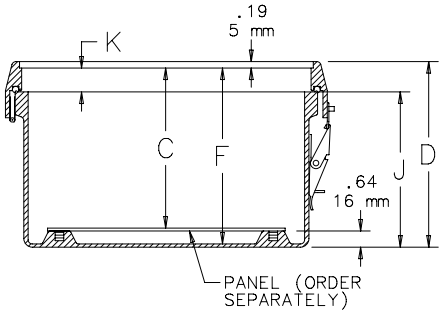
Flat Clear Cover Window Enclosures







Top View with Door/Cover Removed



SECTION X–X

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ULTRX, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E619977
Enclosure flammability evaluated per UL 508A
Window flammability evaluated per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Providing outstanding protection against corrosion and the elements, the clean lines and molded, embossed design of ULTRX fiberglass enclosures make them the most stylish and aesthetically pleasing of their class. These enclosures feature hidden hinges, a padlocking capability for security, and flexible internal mounting options.

FEATURES

- Compression-molded fiberglass material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties, including high-impact resistance
- Exterior surface is painted for enhanced UV protection
- Fiberglass is easily punched, drilled, filed or sawed
- Gasket assures watertight and dust-tight seal
- Enclosure may be rotated 180 degrees for left and right hinging
- Molded-in drip shields are standard with each enclosure
- Impact-resistant polycarbonate window is permanently bonded in place
- Fiberglass mounting brackets and stainless steel attachment screws are provided with each enclosure
- Unique hinge design allows for standard 180-degree door opening with a maximum opening of 270 degrees
- Door hinges are replaceable
- Type 316 stainless steel quarter-turn latch. Optional keylocking or padlocking handle available.
- Molded-in DIN bosses
- Molded bosses on door provide additional mounting provisions
- Integral mounting rails provide infinite panel adjustment front to back
- Optional data pocket is high-impact thermoplastic
- Material is halogen free

FINISH

Standard exterior surface painted light-gray acrylic enamel for enhanced UV protection. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Rack Angles (Type RA), page 277

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: UX1

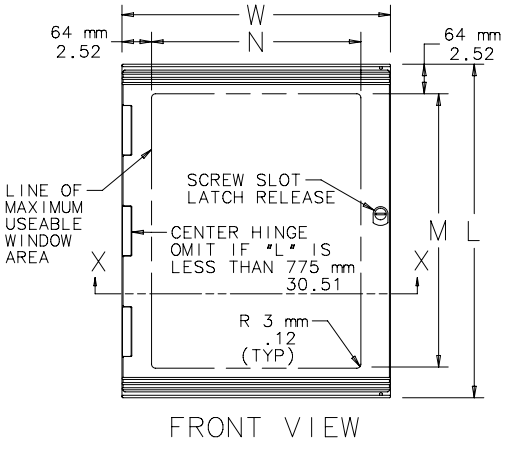
Standard Product

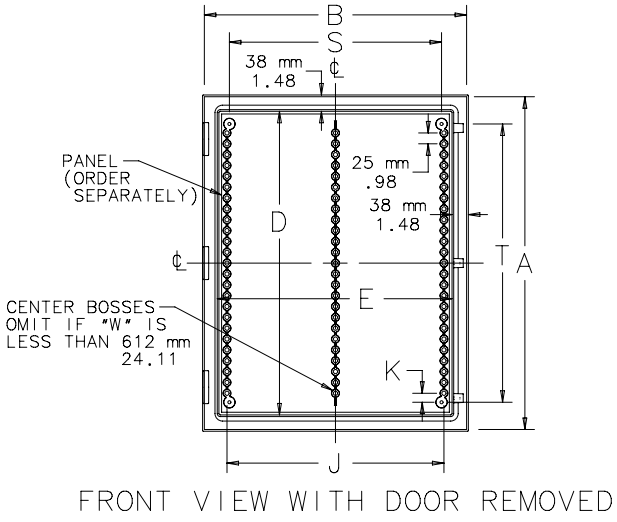
Catalog Number	Door Style	External Dimensions L x W mm/in.	Internal Dimensions A x B x C mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	Window Size M x N mm/in.	F mm/in.	J mm/in.	K mm/in.	S mm/in.	T mm/in.
UU504020	Solid	513 x 413 20.20 x 16.26	496 x 396 x 220 19.53 x 15.59 x 8.66	A20P16	A20P16G	432 x 330 17.00 x 12.99	359 x 459 14.13 x 18.07	— —	186 7.32	297 11.69	19 0.75	286 11.26	387 15.24
UU504020W	Window	513 x 413 20.20 x 16.26	496 x 396 x 220 19.53 x 15.59 x 8.66	A20P16	A20P16G	439 x 330 17.00 x 12.99	359 x 459 14.13 x 18.07	386 x 286 15.20 x 11.26	186 7.32	297 11.69	19 0.75	286 11.26	387 15.24
UU606020	Solid	625 x 612 24.61 x 24.09	608 x 595 x 220 23.94 x 23.43 x 8.66	A24P24	A24P24G	533 x 533 20.98 x 20.98	559 x 572 22.01 x 22.52	— —	186 7.32	500 19.68	21 0.83	489 19.25	489 19.25
UU606020W	Window	625 x 612 24.61 x 24.09	608 x 595 x 220 23.94 x 23.43 x 8.66	A24P24	A24P24G	533 x 533 20.98 x 20.98	559 x 572 22.01 x 22.52	498 x 486 19.61 x 19.13	186 7.32	500 19.68	21 0.83	489 19.25	489 19.25
UU605025	Solid	625 x 513 24.61 x 20.20	608 x 496 x 270 23.94 x 19.53 x 10.63	A24P20	A24P20G	533 x 432 20.98 x 17.00	457 x 570 17.99 x 22.44	— —	239 9.41	400 15.75	21 0.83	387 15.24	489 19.25
UU605025W	Window	625 x 513 24.61 x 20.20	608 x 496 x 270 23.94 x 19.53 x 10.63	A24P20	A24P20G	533 x 432 20.98 x 17.00	457 x 570 17.99 x 22.44	498 x 386 19.61 x 15.20	239 9.41	400 15.75	21 0.83	387 15.24	489 19.25
UU504030	Solid	513 x 412 20.20 x 16.22	496 x 395 x 321 19.53 x 15.55 x 12.64	A20P16	A20P16G	432 x 330 17.00 x 12.99	355 x 455 13.98 x 17.91	— —	287 11.30	300 11.81	19 0.75	286 11.26	387 15.24
UU504030W	Window	513 x 412 20.20 x 16.22	496 x 395 x 321 19.53 x 15.55 x 12.64	A20P16	A20P16G	432 x 330 17.00 x 12.99	355 x 455 13.98 x 17.91	386 x 286 15.20 x 11.26	287 11.30	300 11.81	19 0.75	286 11.26	387 15.24
UU606030	Solid	625 x 612 24.61 x 24.09	608 x 595 x 321 23.94 x 23.43 x 12.64	A24P24	A24P24G	533 x 533 20.98 x 20.98	555 x 568 21.85 x 22.36	— —	287 11.30	500 19.68	21 0.83	489 19.25	489 19.25
UU606030W	Window	625 x 612 24.61 x 24.09	608 x 595 x 321 23.94 x 23.43 x 12.64	A24P24	A24P24G	533 x 533 20.98 x 20.98	555 x 568 21.85 x 22.36	498 x 486 19.61 x 19.13	287 11.30	500 19.68	21 0.83	489 19.25	489 19.25
UU756030	Solid	775 x 612 30.51 x 24.09	758 x 595 x 321 29.84 x 23.43 x 12.64	A30P24	A30P24G	686 x 533 27.01 x 20.98	555 x 718 21.85 x 28.27	— —	287 11.30	500 19.68	21 0.83	489 19.25	641 25.24

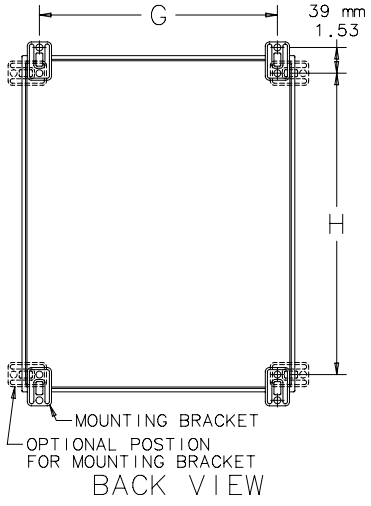
Catalog Number	Door Style	External Dimensions L x W mm/in.	Internal Dimensions A x B x C mm/in.	Panel	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	Window Size M x N mm/in.	F mm/in.	J mm/in.	K mm/in.	S mm/in.	T mm/in.
UU756030W	Window	775 x 612 30.51 x 24.09	758 x 595 x 321 29.84 x 23.43 x 12.64	A30P24	A30P24G	686 x 533 27.01 x 20.98	555 x 718 21.85 x 28.27	648 x 486 25.51 x 19.13	287 11.30	500 19.68	21 0.83	489 19.25	641 25.24
UU1008030	Solid	1025 x 825 40.35 x 32.48	1008 x 808 x 321 39.68 x 31.81 x 12.64	A40P30	A40P30G	940 x 737 37.01 x 29.02	768 x 968 30.24 x 38.11	— —	287 11.30	700 27.56	23 0.91	692 27.24	895 35.24
UU1008030W	Window	1025 x 825 40.35 x 32.48	1008 x 808 x 321 39.68 x 31.81 x 12.64	A40P30	A40P30G	940 x 737 37.01 x 29.02	768 x 968 30.24 x 38.11	898 x 698 35.35 x 27.48	287 11.30	700 27.56	23 0.91	692 27.24	895 35.24
UU606040	Solid	625 x 612 24.61 x 24.09	608 x 595 x 421 23.94 x 23.43 x 16.57	A24P24	A24P24G	533 x 533 20.98 x 20.98	555 x 568 21.85 x 22.36	— —	387 15.24	500 19.68	21 0.83	489 19.25	489 19.25
UU606040W	Window	625 x 612 24.61 x 24.09	608 x 595 x 421 23.94 x 23.43 x 16.57	A24P24	A24P24G	533 x 533 20.98 x 20.98	555 x 568 21.85 x 22.36	498 x 486 19.61 x 19.13	387 15.24	500 19.68	21 0.83	489 19.25	489 19.25
UU756040	Solid	775 x 612 30.51 x 24.09	758 x 595 x 421 29.84 x 23.43 x 16.57	A30P24	A30P24G	686 x 533 27.01 x 20.98	555 x 718 21.85 x 28.27	— —	387 15.24	500 19.68	21 0.83	489 19.25	641 25.24
UU756040W	Window	775 x 612 30.51 x 24.09	758 x 595 x 421 29.84 x 23.43 x 16.57	A30P24	A30P24G	686 x 533 27.01 x 20.98	555 x 718 21.85 x 28.27	648 x 486 25.51 x 19.13	387 15.24	500 19.68	21 0.83	489 19.25	641 25.24

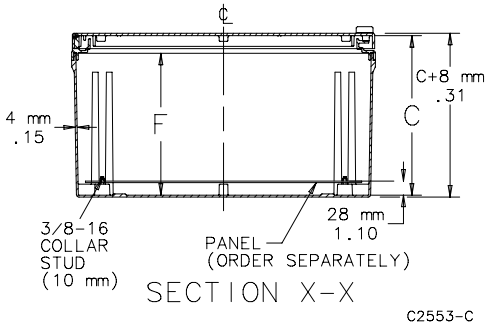
Purchase panels separately.

Note: When installing enclosures in a right-hand hinge application that involves vibration, Hoffman recommends the use of pad-locking or key-locking quarter-turn latch accessories for door securement (UUHPL, UUHKL).









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ULTRX WIFI, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability rating per UL 508
Window flammability rating per UL 508

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. LR42186: Type 4,4X, 12, 13
IEC 60529, IP66
Cabinets with solid doors are plenum rated.

APPLICATION

Ideal for locations such as tunnels, floor vaults, marinas, outside walls or rooftops, the lightweight ULTRX fiberglass WiFi cabinet does not impede WiFi or WLAN signals and has optional rack angles that can be added to support 19-in. rack-mount equipment.

FEATURES

- Compression-molded fiberglass material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties, including high-impact resistance
- Exterior surface is painted for enhanced UV protection
- Fiberglass is easily punched, drilled, filed or sawed
- Gasket assures watertight and dust-tight seal
- Enclosure may be rotated 180 degrees for left and right hinging
- Molded-in drip shields are standard with each enclosure
- Impact-resistant polycarbonate window is permanently bonded in place
- Fiberglass mounting brackets and stainless steel attachment screws are provided with each enclosure
- Unique hinge design allows for standard 180-degree door opening with a maximum opening of 270 degrees
- Door hinges are replaceable
- Type 316 stainless steel quarter-turn latch. Optional keylocking or padlocking handle available.
- Molded-in DIN bosses
- Molded bosses on door provide additional mounting provisions
- Integral mounting rails provide infinite panel adjustment front to back
- Optional data pocket is high-impact thermoplastic
- Material is halogen free
- Includes a 3/4-in. plywood panel for mounting equipment

FINISH

Standard exterior surface painted light-gray acrylic enamel for enhanced UV protection.

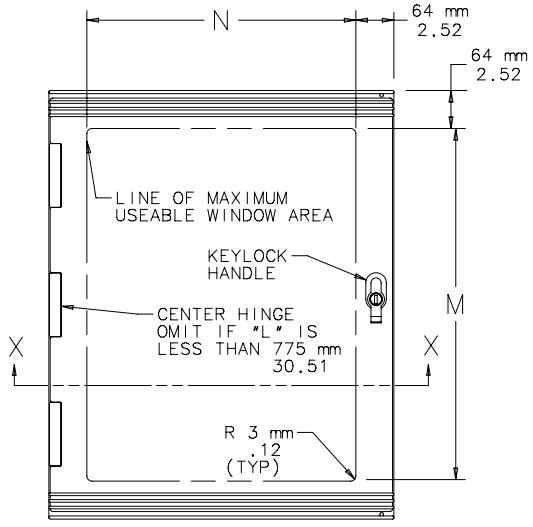
BULLETIN: DWS12

Standard Product

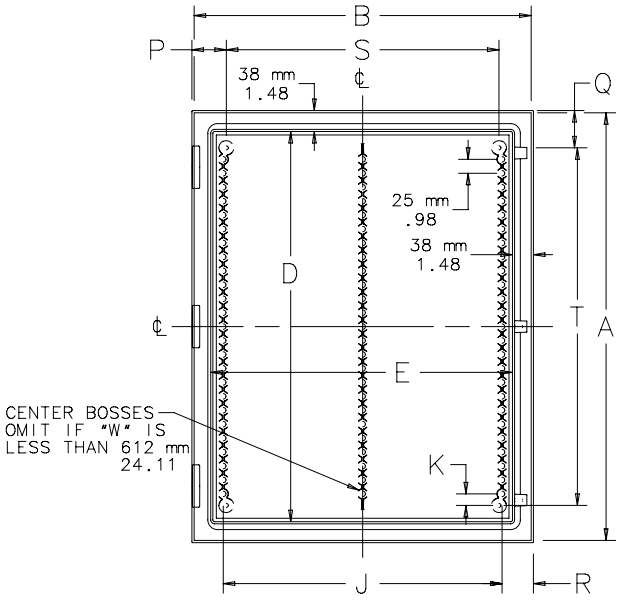
Catalog Number	AxBxC mm/in.	Door Type	Internal Dimensions A x B x C mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	Window Size M x N mm/in.	F mm/in.	J mm/in.	K mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	T mm/in.
DU606030P	608 x 595 x 321 23.94 x 23.43 x 12.64	Solid	608 x 595 x 321 23.94 x 23.44 x 12.64	A24P24WD	533 x 533 21.00 x 21.00	555 x 568 21.86 x 22.36	498 x 486 19.62 x 19.12	287 11.31	500 19.68	21 0.81	62 2.43	68 2.68	56 2.21	489 19.25	489 19.25
DU606030WP	608 x 595 x 321 23.94 x 23.43 x 12.64	Window	608 x 595 x 321 23.94 x 23.44 x 12.64	A24P24WD	533 x 533 21.00 x 21.00	555 x 568 21.86 x 22.36	498 x 486 19.62 x 19.12	287 11.31	500 19.68	21 0.81	62 2.43	68 2.68	56 2.21	489 19.25	489 19.25

Wood panel included with enclosure. Optional steel panels must be ordered separately.

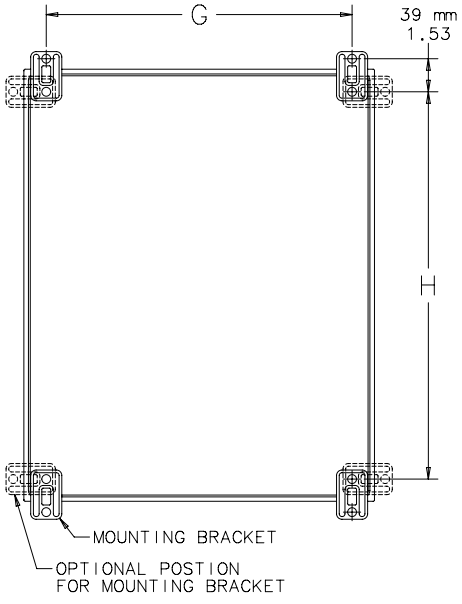
Window size applies to window door cabinets only.



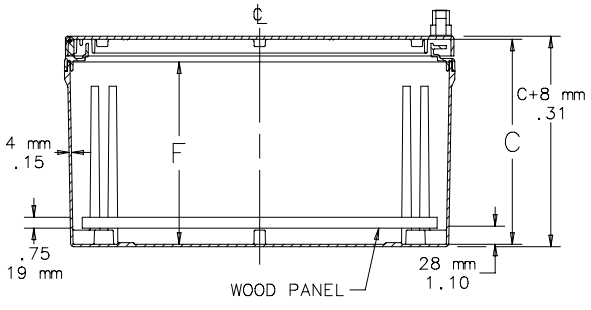
FRONT VIEW



FRONT VIEW WITH DOOR REMOVED



BACK VIEW



SECTION X–X

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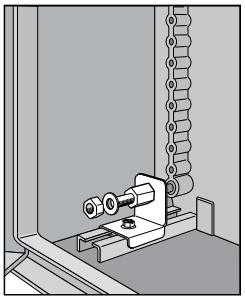
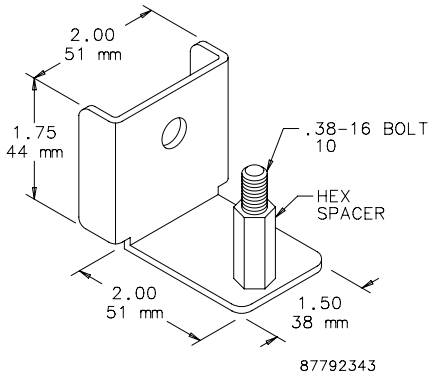
PANEL BRACKET KIT



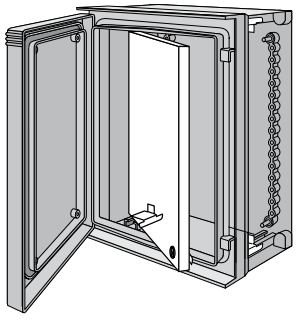
Catalog Number	Description	Pkg. Qty.
UUPB	ULTRX Panel Bracket Kit	4



Panel Bracket Kit is used with steel panels and permits panel adjustment from front to rear. Fits all ULTRX sizes. Mounts on integrally molded body rail. Brackets are plated steel. All mounting hardware is included. *Note: Front mounting position is approximately 140mm/5.5 in. back on 400mm enclosures.*

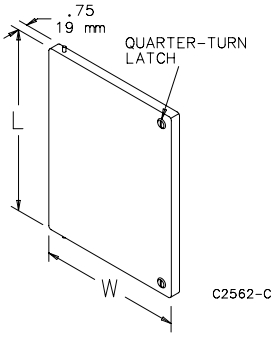
BULLETIN: UX1Y

SWING-OUT PANEL



Catalog Number	Fits A x B mm/in.	L mm/in.	W mm/in.
UU5040SP	513 x 413 20.20 x 16.26	432 17.00	330 12.99
UU6050SP	625 x 513 24.61 x 20.20	536 21.10	432 17.00
UU6060SP	625 x 612 24.61 x 24.09	540 21.25	535 21.08
UU7560SP	775 x 612 30.51 x 24.09	687 27.05	535 21.08
UU10080SP	1025 x 825 40.35 x 32.48	935 36.80	737 29.00

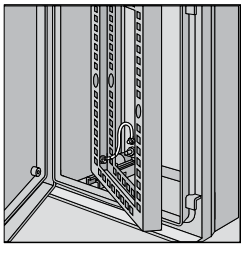
Use UU6060SP with DATACOM ULTRX Fiberglass Type 4X WiFi Cabinet.



Installs front-mounted panels in ULTRX fiberglass enclosures. The front-mounted swing panel complements window-door units and is suited for any application requiring a display of gauges, dials or any type of control equipment monitor. Made of 14 gauge plated steel. Easy installation; no drilling required. Fully adjustable front to rear. Panel and mounting hardware included.
Note: Front mounting position is approximately 140mm/5.5 in. back on 400mm enclosures.

BULLETIN: UX1Y

GROUNDING DEVICE



Grounding Device provides a means to attach a grounding conductor to an ULTRX Swing-Out Panel or Swing-Out Frame. Includes all installation hardware and instructions.

BULLETIN: UX1Y

Catalog Number	Description
UUGK	ULTRX Grounding Device

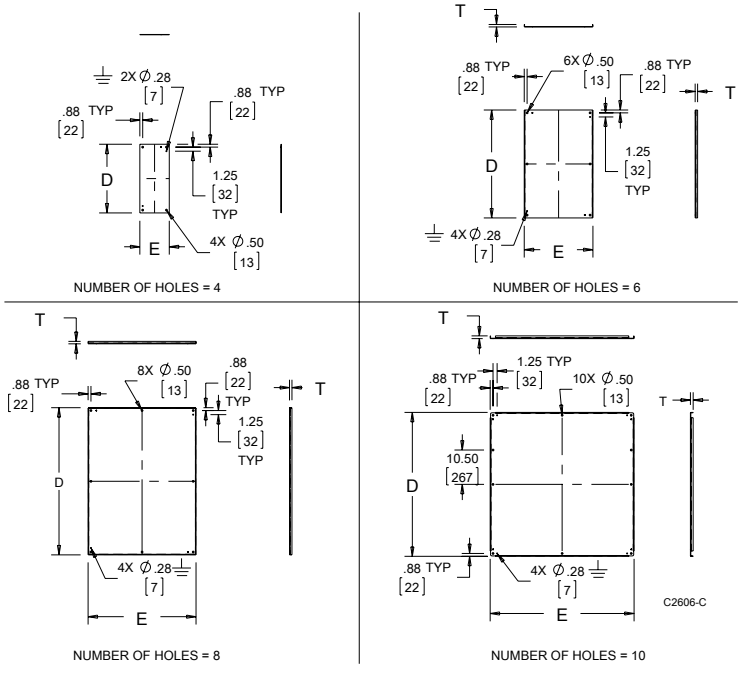
PANELS FOR TYPE 3R, 4, 4X, 12 AND 13 ENCLOSURES

Steel panels are 12 gauge with a white finish. Panel mounting hardware is furnished with all enclosures that accept these panels.

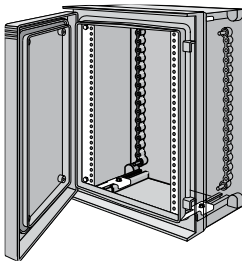
BULLETIN: DWS12, PNLWM

Catalog Number	Flange Thickness T (in.)	Flange Thickness T (mm)	Panel Size D x E (in.)	Panel Size D x E (mm)	Number of Holes	Edge Flanges
A20P16	—	—	17.00 x 13.00	432 x 330	4	0
A24P20	0.75	19	21.00 x 17.00	533 x 432	4	2
A24P24	0.75	19	21.00 x 21.00	533 x 533	4	2
A24P24WD	0.75	19	21.00 x 21.00	533 x 533	4	—
A30P24	0.75	19	27.00 x 21.00	686 x 533	4	2
A40P30	0.75	19	37.00 x 29.00	940 x 737	4	4

Catalog number with "WD" is wood.



RACK ANGLES (TYPE RA)

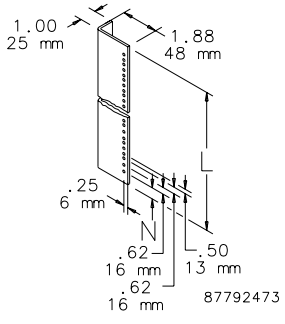


Pairs of full-length rack-mounting angles are available for mounting 1-in. (483-mm) rack-mounted equipment. Type RA angles are 14 gauge steel with .281-in. (7-mm) diameter mounting holes, spaced per EIA standard RS-310-D (universal spacing). Use Clip Nut Package (AN1032) to provide tapped holes at desired locations. Angles and mounting hardware are plated steel. Mounting hardware is furnished.

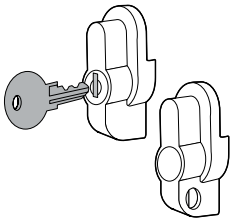
BULLETIN: UX1Y

Catalog Number	Fits A x B mm/in.	L mm/in.	N mm/in.	Rack Units	Pkg. Qty.
UURA6060	610 x 610 24.00 x 24.00	552 21.75	10 .38	12	2
UURA7560	762 x 610 30.00 x 24.00	705 27.75	19 .75	15	2

Use UURA6060 with DATACOM ULTRX Fiberglass Type 4X WiFi Cabinet.



KEYLOCK KIT AND PADLOCK KIT



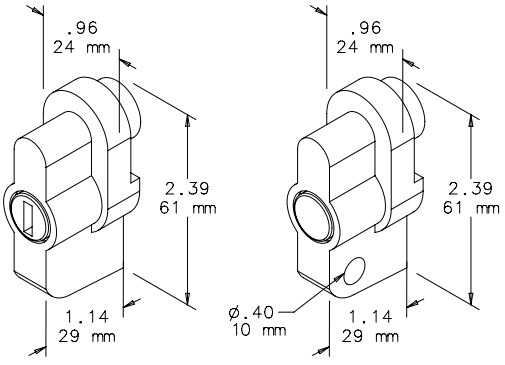
Keylock Kit or pushbutton-style Padlock Kit is easily inserted in latch hole to prevent unauthorized personnel from gaining access to enclosure contents. Each kit is fully assembled for easy installation in the field. Type 316 stainless steel construction.

BULLETIN: UX1Y

Catalog Number	Description
UUHKL	Keylock Kit
UUHPL	Padlock Kit

UUHKL: Internal key components are not stainless steel.

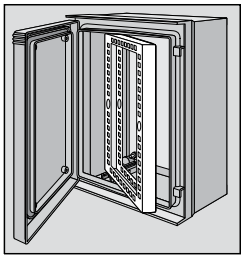
UUHPL: Handles maintain UL 508A, Type 3, 4, 4X and 12 when properly installed on a Hoffman enclosure. Set up for 1/4-in. or 3/8-in. padlock.



Keylock Kit **Padlock Kit**

87792346

SWING FRAME

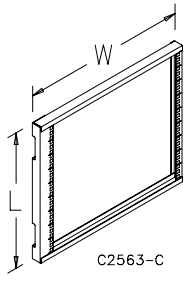


Swing Frame provides 19-in. rack-mounting capabilities with U-Style (Type RA) mounting hole pattern. Quarter-turn latch has 100-degree swing. Adjustable mounting provision. 14 gauge plated steel. Includes mounting hardware. Swing frame maintains enclosure rating if properly installed in a Hoffman enclosure. *Note: Front mounting position is approximately 140mm/5.5 in. back on 400mm enclosures.*

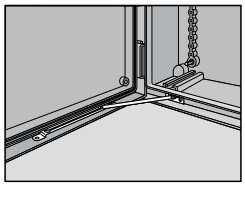
BULLETIN: UX1Y

Catalog Number	Fits A x B mm/in.	L mm/in.	W mm/in.	Rack Units
UU6060SF	610 x 610 24.00 x 24.00	540 21.25	535 21.08	11
UU7560SF	762 x 610 30.00 x 24.00	687 27.05	535 21.08	14

Use UU6060SF with DATACOM ULTRX Fiberglass Type 4X WiFi Cabinet.



DOOR STOP KIT

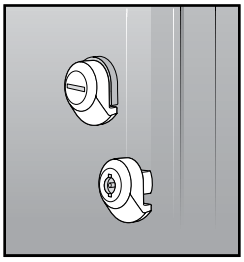


Door Stop Kit limits door to 120-degree opening. Field installable on all sizes of ULTRX enclosures. Type 304 stainless steel construction.

BULLETIN: UX1Y

Catalog Number	Description
UUDS	Door Stop Kit

ULTRX KEY INSERT

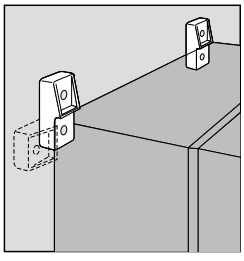


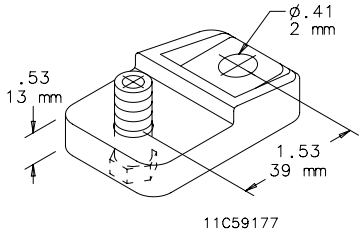
Inserts can be substituted for the standard quarter-turn latch. Inserts are Type 316 stainless steel.

BULLETIN: UX1Y

Catalog Number	Insert Type
UUL3DB	Double-bit 3 mm
UULSC	Screw driver slot

ULTRX MOUNTING BRACKET KIT





Kit is field-installable. Corrosion-resistant fiberglass material. Type 316 stainless steel mounting hardware is included. Four mounting brackets per kit.

BULLETIN: UX1Y

Catalog Number	Description	Kit Qty.
UUMF	Mounting Bracket Kit	4

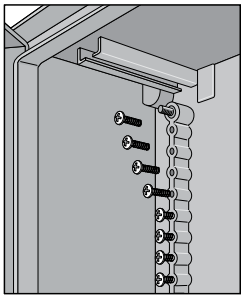
SCREW INSERT KIT

Brass threaded inserts (10-32) with plated screws. Used on door bosses and DIN bosses.

BULLETIN: UX1Y

Catalog Number	Description	Kit Qty.
UUMH2	Screw Insert Kit	4 inserts and 4 screws

SELF-TAPPING SCREWS



Plated screws (1/4-15 x .88) mount panels and accessories to DIN bosses on back of enclosure.

BULLETIN: UX1Y

Catalog Number	Description	Pkg. Qty.
UUMH1	Self-Tapping Screws	10

HINGE-COVER WITH 3-POINT LATCH OR QUICK-RELEASE LATCHES, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

A full range of modification options are available for wall-mount fiberglass enclosures, including variable depths to accommodate larger controls. These enclosures feature padlockable polyester latches, or Hoffman's exclusive POWERGLIDE Handle with 3-point latching, for ease of access with increased security.

SPECIFICATIONS

- Fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Type 316L stainless steel padlocking POWERGLIDE Handle on 3-point latch versions assures security and a watertight seal while still allowing convenient access
- Quick-release latch versions feature fiberglass-reinforced polyester latches with integral Type 316L stainless steel padlocking hasp
- Seams are sealed; no holes or knockouts
- Enclosure may be rotated 180 degrees for left and right hinging
- Molded-in angular sealing flange directs water away from gasket area
- Gasket assures watertight and dust-tight seal
- Fiberglass material is easily punched, drilled, filed or sawed
- Data pocket is high-impact thermoplastic
- Plated steel collar studs for mounting optional panels and terminal block kits
- Material is halogen free

FINISH

Standard fiberglass enclosure is gray inside and out. Handle is Type 316L stainless steel electropolished. Optional steel panels are painted white. Optional stainless steel, aluminum and composite panels available in select sizes.

ACCESSORIES

H2OMIT Thermoelectric Dehumidifier, page 1324
H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

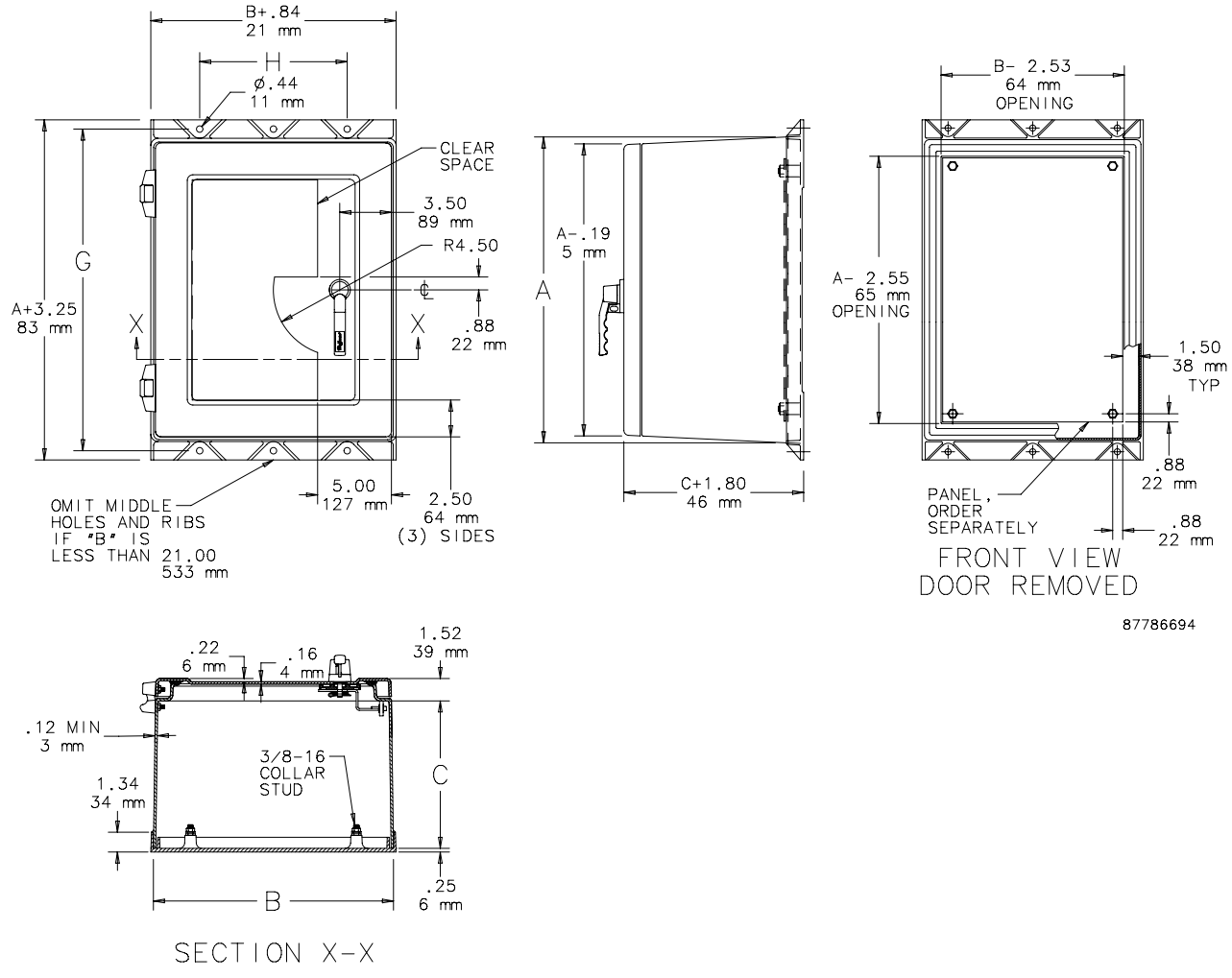
BULLETIN: A17W3, A17WM

Standard Product **3-Point Latch**

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size Height in./mm	G x H in./mm
A24H2006GQRLP3PT	24.25 x 20.25 x 6.00 616 x 514 x 152	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356
A20H2008GQRLP3PT	20.19 x 20.25 x 8.00 513 x 514 x 203	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356
A24H2008GQRLP3PT	24.25 x 20.25 x 8.00 616 x 514 x 203	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356
A24H2408GQRLP3PT	24.19 x 24.19 x 8.00 614 x 614 x 203	A24P24	A24P24	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457
A30H2408GQRLP3PT	30.25 x 24.25 x 8.00 768 x 616 x 203	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457
A36H3008GQRLP3PT	36.25 x 30.25 x 8.00 921 x 768 x 203	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.58 x 24.00 955 x 610
A24H2010GQRLP3PT	24.25 x 20.25 x 10.00 616 x 514 x 254	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356
A30H2410GQRLP3PT	30.25 x 24.25 x 10.00 768 x 616 x 254	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457
A24H2412GQRLP3PT	24.19 x 24.19 x 12.00 614 x 614 x 305	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457
A30H2412GQRLP3PT	30.25 x 24.25 x 12.00 768 x 616 x 305	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457
A36H3012GQRLP3PT	36.25 x 30.25 x 12.00 921 x 768 x 305	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.58 x 24.00 955 x 610

Purchase panels separately. Optional stainless steel, composite and aluminum panels available for most sizes. See General Accessories.

Hinged with 3-Point Latch Enclosures

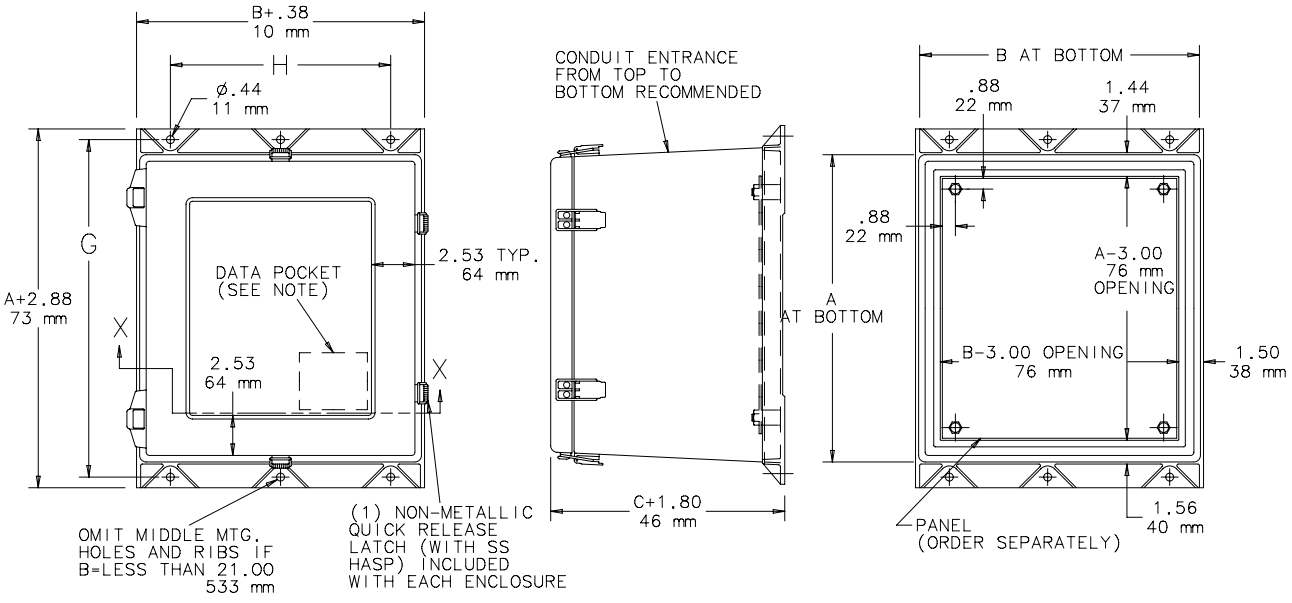


Standard Product **Quick-Release Latch**

Catalog Number	AxBxC in./mm	Panel	Cond. Panel	Panel Size in./mm	Mtg G x H in./mm	No. of Latches
A20H1606GQRLP	20.19 x 16.25 x 6.00 513 x 413 x 152	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	4
A20H2006GQRLP	20.19 x 20.25 x 6.00 513 x 514 x 152	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356	4
A24H2006GQRLP	24.25 x 20.25 x 6.00 616 x 514 x 152	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A30H2406GQRLP	30.25 x 24.25 x 6.00 768 x 616 x 152	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A20H1608GQRLP	20.19 x 16.25 x 8.00 513 x 413 x 203	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	4
A20H2008GQRLP	20.19 x 20.25 x 8.00 513 x 514 x 203	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356	4
A24H2008GQRLP	24.25 x 20.25 x 8.00 616 x 514 x 203	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A24H2408GQRLP	24.19 x 24.19 x 8.00 614 x 614 x 203	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	4
A30H2408GQRLP	30.25 x 24.25 x 8.00 768 x 616 x 203	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A36H3008GQRLP	36.25 x 30.25 x 8.00 921 x 768 x 203	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.61 x 24.00 955 x 610	5
A20H1610GQRLP	20.19 x 16.25 x 10.00 513 x 413 x 254	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	4
A20H2010GQRLP	20.19 x 20.25 x 10.00 513 x 514 x 254	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356	4
A24H2010GQRLP	24.25 x 20.25 x 10.00 616 x 514 x 254	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A30H2410GQRLP	30.25 x 24.25 x 10.00 768 x 616 x 254	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A20H1612GQRLP	20.19 x 16.25 x 12.00 513 x 413 x 305	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	4
A20H2012GQRLP	20.19 x 20.25 x 12.00 513 x 514 x 305	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356	4
A24H2012GQRLP	24.25 x 20.25 x 12.00 616 x 514 x 305	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A24H2412GQRLP	24.19 x 24.19 x 12.00 614 x 614 x 305	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	4
A30H2412GQRLP	30.25 x 24.25 x 12.00 768 x 616 x 305	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A36H3012GQRLP	36.25 x 30.25 x 12.00 921 x 768 x 305	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.58 x 24.00 955 x 610	5
A36H3612GQRLP	36.25 x 36.25 x 12.00 921 x 921 x 305	A36P36	A36P36G	33.00 x 33.00 838 x 838	37.61 x 30.00 955 x 762	7
A48H3612GQRLP	48.25 x 36.25 x 12.00 1226 x 921 x 305	A48P36	A48P36G	45.00 x 33.00 1143 x 838	49.58 x 30.00 1259 x 762	8
A60H3612GQRLP	60.12 x 36.31 x 12.00 1527 x 922 x 305	A60P36	A60P36G	57.00 x 33.00 1448 x 838	61.41 x 30.00 1564 x 762	8
A24H2016GQRLP	24.25 x 20.25 x 16.00 616 x 514 x 406	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A24H2416GQRLP	24.19 x 24.19 x 16.00 614 x 614 x 406	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	4
A30H2416GQRLP	30.25 x 24.25 x 16.00 768 x 616 x 406	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A48H3616GQRLP	48.25 x 36.25 x 16.00 1226 x 921 x 406	A48P36	A48P36G	45.00 x 33.00 1143 x 838	49.58 x 30.00 1259 x 762	8
A60H3616GQRLP	60.12 x 36.31 x 16.00 1527 x 922 x 406	A60P36	A60P36G	57.00 x 33.00 1448 x 838	61.41 x 30.00 1566 x 762	8
A20H1620GQRLP	20.19 x 16.25 x 20.00 513 x 413 x 508	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	4
A20H2020GQRLP	20.19 x 20.25 x 20.00 513 x 514 x 508	A20P20	A20P20G	17.00 x 17.00 432 x 432	21.81 x 14.00 554 x 356	4
A24H2020GQRLP	24.25 x 20.25 x 20.00 616 x 514 x 508	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A24H2420GQRLP	24.19 x 24.19 x 20.00 614 x 614 x 508	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	4
A30H2420GQRLP	30.25 x 24.25 x 20.00 768 x 616 x 508	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5
A36H3020GQRLP	36.25 x 30.25 x 20.00 921 x 768 x 508	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.61 x 24.00 958 x 610	5
A48H3620GQRLP	48.25 x 36.25 x 20.00 1226 x 921 x 508	A48P36	A48P36G	45.00 x 33.00 1143 x 838	49.58 x 30.00 1263 x 762	8
A24H2024GQRLP	24.25 x 20.25 x 24.00 616 x 514 x 610	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	4
A24H2424GQRLP	24.19 x 24.19 x 24.00 614 x 614 x 610	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	4
A30H2424GQRLP	30.25 x 24.25 x 24.00 768 x 616 x 610	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	5

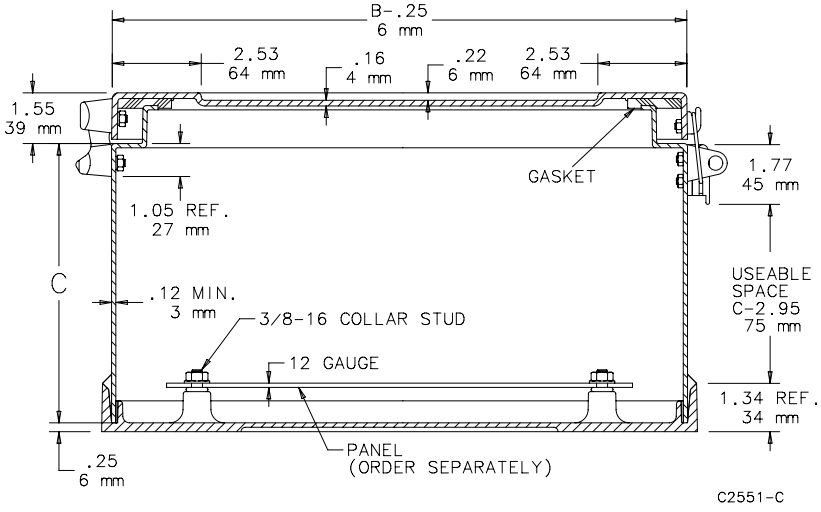
Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.

Hinged with Quick-Release Latch Enclosures 36 X 30 or Smaller Drawing



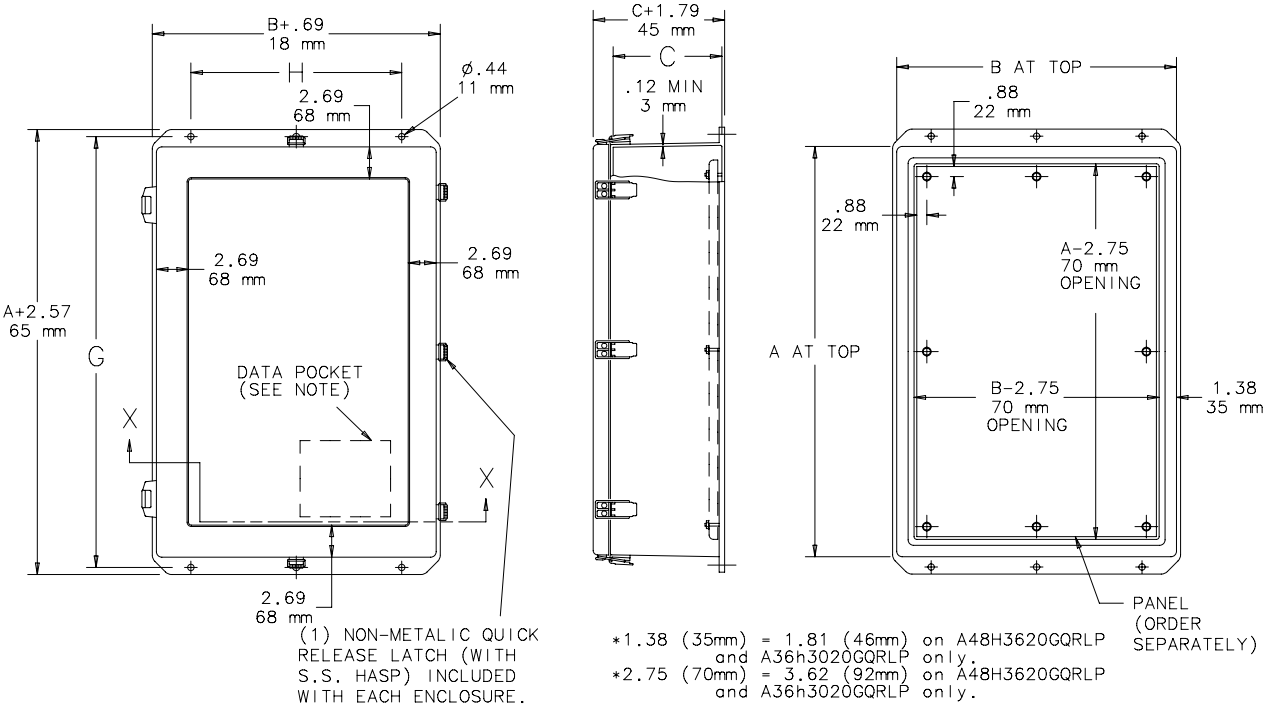
FRONT VIEW WITH DOOR SIDE VIEW FRONT VIEW DOOR REMOVED

NOTE: Enclosure A36H3020GQRLP still is manufactured according to the drawing of enclosures 36 X 36 or larger.



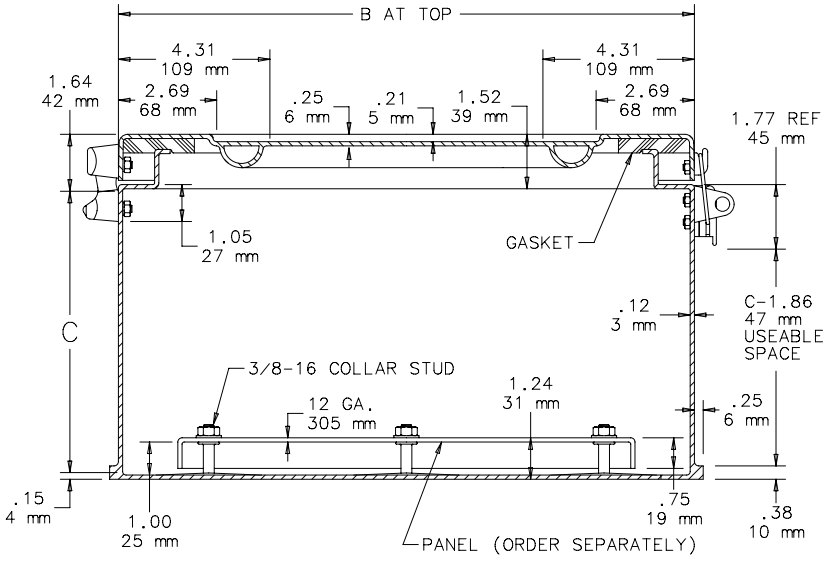
SECTION X-X

Hinged with Quick-Release Latch Enclosures 36 X 36 or Larger Drawing



FRONT VIEW WITH DOOR | SIDE VIEW | FRONT VIEW WITH DOOR REMOVED

NOTE: Large data pocket provision when A=30.00 (7.76mm) or more. Data pocket is furnished but not installed. Large data pocket is 12.00 X 12.00 (305mm X 305mm); small data pocket is 6.00 x 6.00 (152mm x 152mm).



SECTION X-X

C2552-C

FIBERGLASS DISCONNECT, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For effective and economical disconnect protection in the harshest corrosive environments, these enclosures provide secure door closure through the use of Type 304 stainless steel slotted quarter-turn latches.

SPECIFICATIONS

- Fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Seams are sealed; no holes or knockouts
- Gasket assures watertight and dust-tight seal
- Fiberglass material is easily drilled, filed or sawed
- Hinges are fiberglass-reinforced polyester
- Doors are secured with Type 304 stainless steel slotted quarter-turn latches
- Data pocket is high-impact thermoplastic
- Copper flashed steel collar studs for mounting optional panels and terminal block kits
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Internal grounding provisions for quarter-turn latches
- Includes bracket affixed to door for attaching disconnect door catch (interlock) and instructions for installing disconnects
- Material is halogen free

FINISH

Standard fiberglass material is light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

ACCESSORIES

Frameless Window Kit, page 1347
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A17WD

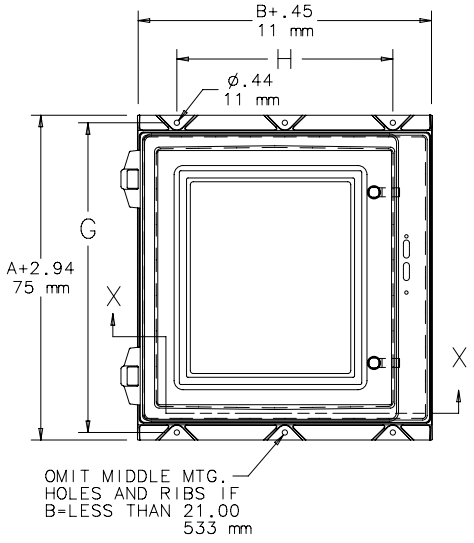
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size in./mm	Mounting G x H in./mm	Number of Latches
A20HS1610GQRLP	20.19 x 16.25 x 10.00 513 x 413 x 254	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	2
A24HS2008GQRLP	24.25 x 20.25 x 8.00 616 x 514 x 203	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	2
A24HS2408GQRLP	24.19 x 24.19 x 8.00 614 x 614 x 203	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	2
A24HS2412GQRLP	24.19 x 24.19 x 12.00 614 x 614 x 305	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	2
A30HS2412GQRLP	30.25 x 24.25 x 12.00 768 x 616 x 305	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	2
A36HS3012GQRLP	36.25 x 30.25 x 12.00 921 x 768 x 305	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.58 x 24.00 955 x 610	4
A48HS3612GQRLP	48.25 x 36.25 x 12.00 1226 x 921 x 305	A48P36	A48P36G	45.00 x 33.00 1143 x 838	49.58 x 30.00 1259 x 762	5
A60HS3612GQRLP	60.25 x 36.31 x 12.00 1530 x 922 x 305	A60P36	A60P36G	57.00 x 33.00 1448 x 838	61.58 x 30.00 1564 x 762	5

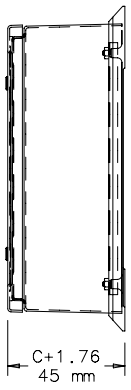
Purchase panels separately. Optional stainless steel, composite and aluminum panels available for most sizes. See General Accessories.

No additional "C" dimensions available.

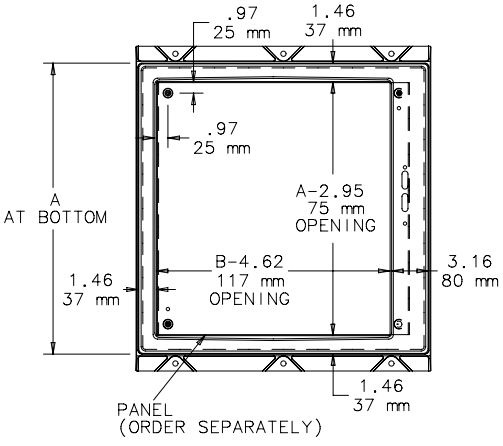
Fiberglass Disconect, Type 4X, 30 x 24 or Smaller Drawing



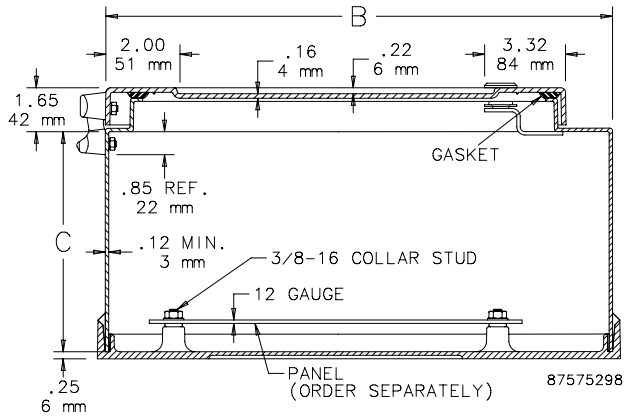
FRONT VIEW WITH DOOR



SIDE VIEW

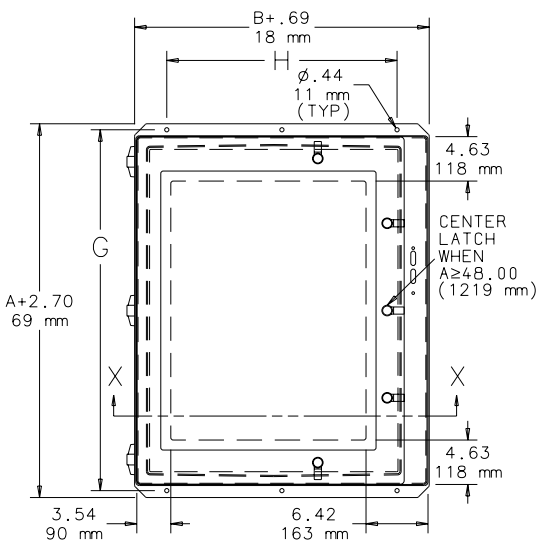


FRONT VIEW DOOR REMOVED

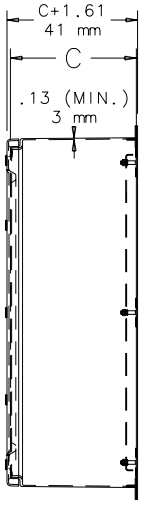


SECTION X-X

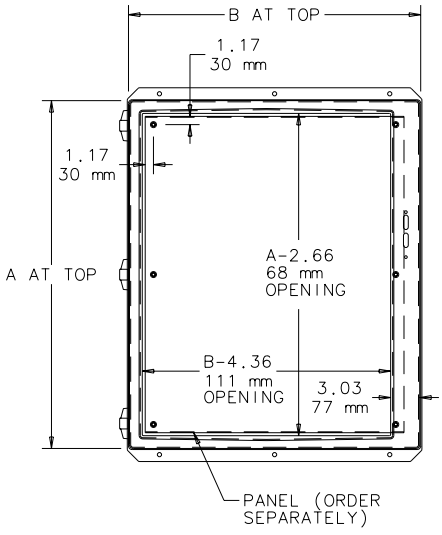
Fiberglass Disconnect, Type 4X, 36 x 30 or Larger Drawing



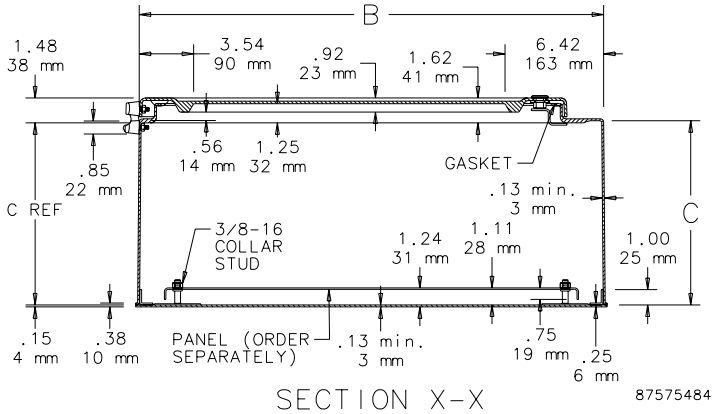
FRONT VIEW WITH DOOR



SIDE VIEW



FRONT VIEW DOOR REMOVED



SECTION X–X

87575484

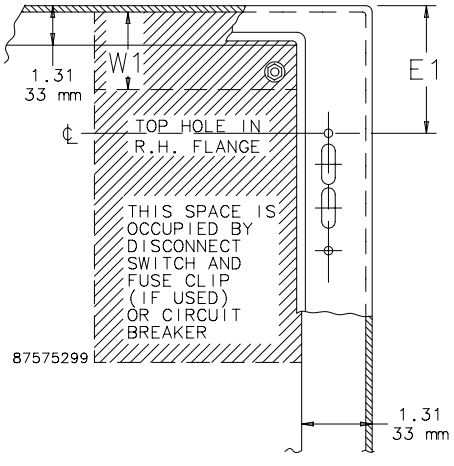
NOTE:
1. Large data pocket provision when A=30.00 (762mm) or more. Data pocket is furnished but not installed. Large data pocket is 12.00 x 12.00 (305mm x 305mm); small data pocket is 6.00 x 6.00 (152mm x 152mm).
2. Internal grounding provisions on the latch side(s) of the internal body Flange.

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown in Disconnect Mounting Space Diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 8.62 in. (219 mm) when A < 30.00 in. (768 mm) and C = 8.00 in. (203 mm), 10.00 in. (254 mm) or 12.00 in. (305 mm)
E1 = 11.62 in. (295 mm) when A > 30.00 in. (768 mm) and C = 12.00 in. (305 mm)
W1 = Wiring Space.

See Technical Information for wire bend space.
Refer to *National Electrical Code*® 2005 article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine whether wiring space is adequate.



Consult disconnect manufacturer for F1 and G1 dimensions.

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FREE-STAND, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA Type 3, 3R, 4, 4X, 12, 13
E.I.A. RS-310-D
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

An economical housing for corrosive environments, single-door, free-stand enclosures provide a versatile solution for applications that require flexibility when mounting panels and racks. Benefits include easy access to equipment, larger capacity for control systems, steel reinforcements for stability and strength, captivated door screws and an optional POWERGLIDE Handle for secure latching.

SPECIFICATIONS

- Fiberglass-reinforced polyester material has excellent temperature and chemical resistance and exhibits outstanding physical properties. Epoxy vinyl ester material can be requested instead for protection against extremely corrosive chemical environments.
- Fiberglass material is easily punched, drilled, filed or sawed
- Models have either a 3-point latching system with handle or stainless steel captivated door screws
- Gasket assures watertight and dust-tight seal
- Painted steel top, bottom and side internal reinforcements standard; stainless steel corner reinforcements optional
- Heavy-duty Type 316 stainless steel lifting eyes
- Accessory mounting channels attached horizontally to interior body sides at top, bottom and center. Painted mounting channels standard; stainless steel optional.
- Panels and rack-mounting angles can be mounted anywhere along corner channels; panels can be mounted on sides or back
- Hinges are corrosion-resistant fiberglass with Type 316 stainless steel hinge pins
- Large, high-impact thermoplastic data pocket (12.00 x 12.00 in. or 305 x 305 mm) is provided
- Molded-in angular sealing flange directs water away from gasket area
- Type 316 stainless steel POWERGLIDE Handle on handle versions
- Material is halogen free

FINISH

Standard fiberglass enclosure is gray inside and gel coated gray on the outside. Optional mild-steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Accessory Selection for Free-Stand, Type 4X, page 290
Floor Stand Kit, page 1404
H2OMIT Vent Drains, Type 4X, page 1322
H2OMIT Thermoelectric Dehumidifier, page 1324
HOL-SEALERS Non-Metallic Hole Seals, page 1376

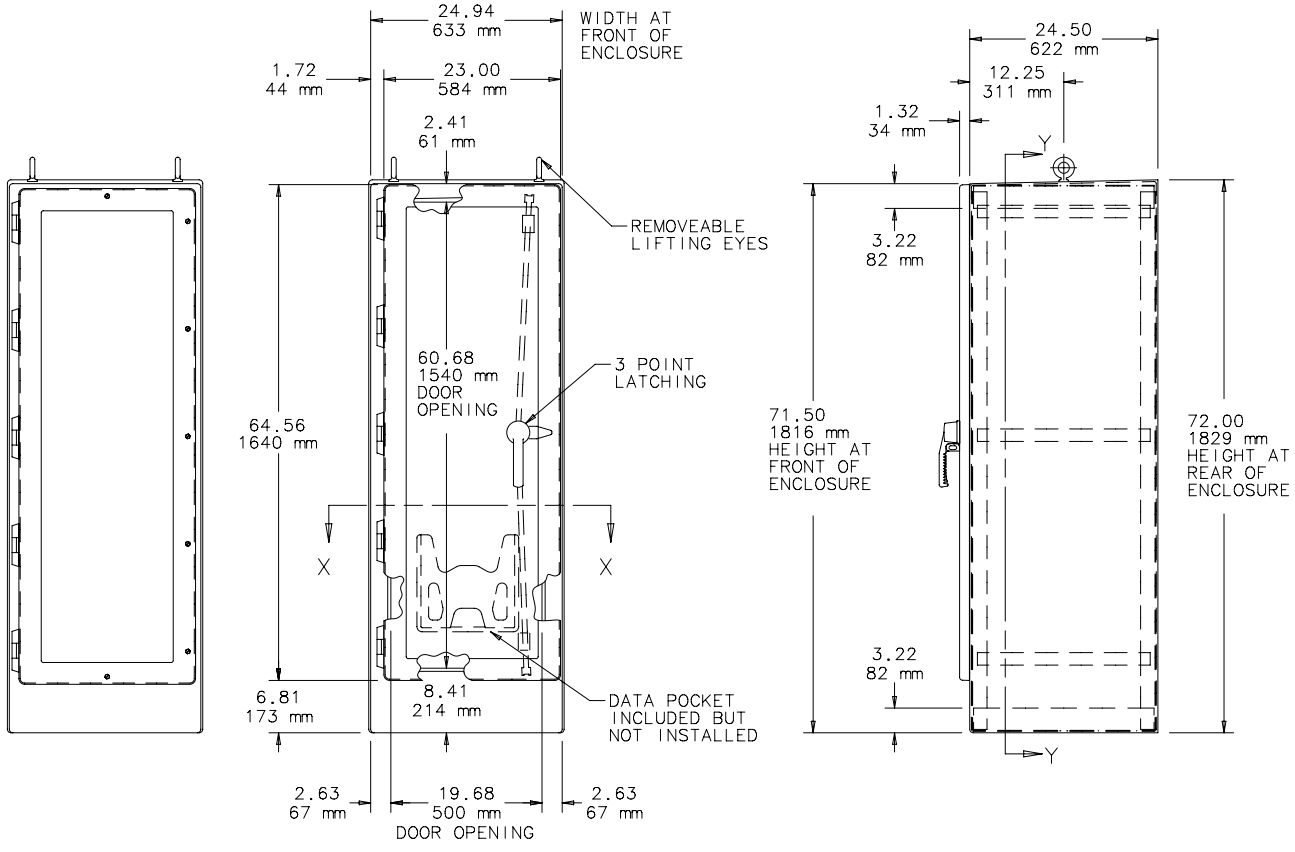
MODIFICATION AND CUSTOMIZATION

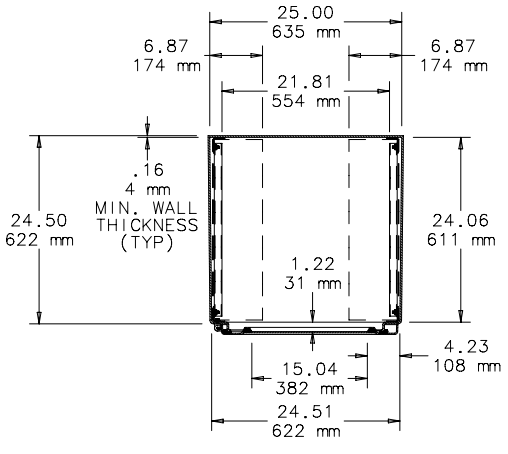
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A17

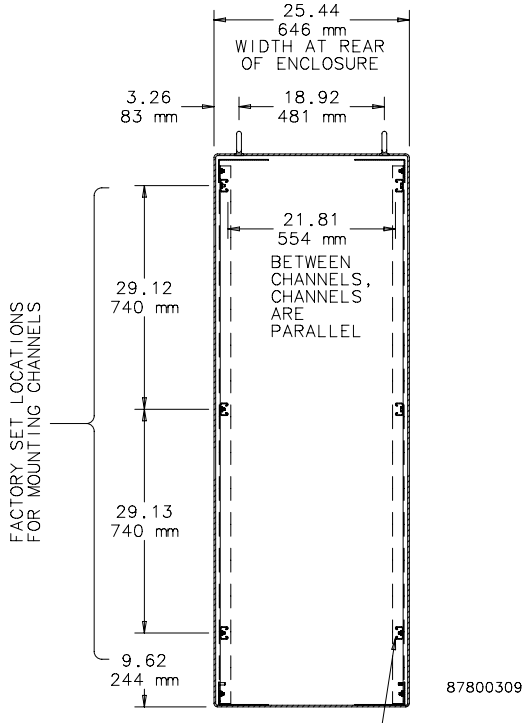
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Description	Estimated Ship Wt. (lb.)	Estimated Ship Wt. (kg)
A722525FGFS	72.00 x 25.00 x 24.50	1829 x 635 x 622	Stainless steel captivated door screws	215	97.5
A722525FGFS3PT	72.00 x 25.00 x 24.50	1829 x 635 x 622	3-point latching system/Type 316 stainless steel handle	215	97.5





SECTION X-X



NOTE: Door opens 175°.

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ACCESSORY SELECTION FOR FREE-STAND, TYPE 4X

For details, see Accessories chapter.

BULLETIN: A17Y, A80, D10, PNL30

Panels

Catalog Number	Description	Size (in.)	Size (mm)
A72P24F1	Full Panel, Steel	60.00 x 20.00	1524 x 508
A72P24F2	Half Panel, Steel	30.88 x 20.00	784 x 508
A72P24F1G	Full Panel, Conductive	60.00 x 20.00	1524 x 508
A72P24F2G	Half Panel, Conductive	30.88 x 20.00	784 x 508

Purchase panels and accessories separately.

Swing-Out Panels

Catalog Number	Description	Size (in.)	Size (mm)
A72SP24F3	Full Swing-Out Panel	60.00 x 18.19	1524 x 462
A72SP24F4	Half Swing-Out Panel	30.88 x 18.19	784 x 462

Purchase panels and accessories separately.

Half Swing-Out Panel fits in top or bottom half of enclosure.

Side-Mounted Panels

Catalog Number	Description	Size (in.)	Size (mm)
A72SMP14	14.00 inch (356mm) Wide Panel, Steel	60.00 x 14.00	1524 x 356
A72SMP20	20.00 inch (508mm) Wide Panel, Steel	60.00 x 20.00	1524 x 508
A72SMP14G	14.00 inch (356mm) Wide Panel, Conductive	60.00 x 14.00	1524 x 356
A72SMP20G	20.00 inch (508mm) Wide Panel, Conductive	60.00 x 20.00	1524 x 508

Purchase panels and accessories separately.

Clamping Nuts

Catalog Number	Description	Package Qty
APS1420CN	1/4-20 Clamping Nut	20
APS51618CN	5/16-18 Clamping Nut	20

Purchase panels and accessories separately.

Casters

Catalog Number	Description	Size (in.)	Size (mm)
DMCKC	Set of four casters	4.00 x 3.00	102 x 76

Requires Bottom Support

Purchase panels and accessories separately.

Inside Bottom Support

Catalog Number	Description	Size (in.)	Size (mm)
A17SUPPORT1	Enclosure bottom support allows installation of casters or floor-stand kits.	23.70 x 23.25	602 x 591

Purchase panels and accessories separately.

RACK MOUNTING ACCESSORY SELECTION FOR FREE-STAND, TYPE 4X

For details, see Accessories chapter.

BULLETIN: A80, P20

Rack Mounting Angles

Catalog Number	Description	Length (in.)	Length (mm)	Units
A72RP24F5	Two Full-Length Angles (Type RP)	61.25	1556	35
A72RP24F6	Two Half-Length Angles (Type RP)	31.50	800	18
A60RA19TH	Two Full-Length Angles (Type RA)	49.00	1245	28
A72RA19TH	Two Full-Length Angles (Type RA	61.25	1556	35

Purchase accessories separately.

1 unit = 1.75 in. (44mm)

Clip Nut Package

Catalog Number	Description	Package Qty	Size
AN1032	#10-32 Zinc-Plated	20	Fits U-Style (Type RA) Rack Mounting Angle

Purchase accessories separately.

Rack Panels

Catalog Number	Description	Size (in.)	Size (mm)	Units
P19RP1UA	Aluminum	19.00 x 1.75	483 x 44	1
P19RP1UP	Steel	19.00 x 1.75	483 x 44	1
P19RP2UA	Aluminum	19.00 x 3.50	483 x 89	2
P19RP2UP	Steel	19.00 x 3.50	483 x 89	2
P19RP3UA	Aluminum	19.00 x 5.25	483 x 133	3
P19RP3UP	Steel	19.00 x 5.25	483 x 133	3
P19RP4UA	Aluminum	19.00 x 7.00	483 x 178	4
P19RP4UP	Steel	19.00 x 7.00	483 x 178	4
P19RP5UA	Aluminum	19.00 x 8.75	483 x 222	5
P19RP5UP	Steel	19.00 x 8.75	483 x 222	5
P19RP6UA	Aluminum	19.00 x 10.50	483 x 267	6
P19RP6UP	Steel	19.00 x 10.50	483 x 267	6
P19RP7UA	Aluminum	19.00 x 12.25	483 x 311	7
P19RP7UP	Steel	19.00 x 12.25	483 x 311	7
P19RP8UA	Aluminum	19.00 x 14.00	483 x 356	8
P19RP8UP	Steel	19.00 x 14.00	483 x 356	8
P19RP9UP	Steel	19.00 x 15.75	483 x 400	9
P19RP10UP	Steel	19.00 x 17.50	483 x 445	10
P19RP11UA	Aluminum	19.00 x 19.25	483 x 489	11
P19RP11UP	Steel	19.00 x 19.25	483 x 489	11
P19RP12UA	Aluminum	19.00 x 21.00	483 x 533	12
P19RP12UP	Steel	19.00 x 21.00	483 x 533	12
P19RP16UP	Steel	19.00 x 28.00	483 x 711	16

Purchase panels and accessories separately.

1 unit = 1.75 in. (44 mm)

Screw Package

Catalog Number	Description	Package Qty
AS1032	10-32 Truss Head Nickel-Plated	20

Purchase accessories separately.

Writing Surface for Drawers

Catalog Number	Description	Size
A19WSDR	Hinged Surface	Fits Drawer A19DR2U and A19DR4U

Purchase accessories separately.

Shelves

Catalog Number	Description	Units
A19SH5	Fixed Shelf	1
A19SH6	Fixed Shelf	1

Purchase accessories separately.

1 unit = 1.75 in. (44 mm)

Guides

Catalog Number	Description	Unit
AG1U6	Chassis Guide (set of two)	1

Purchase accessories separately.

1 unit = 1.75 in. (44 mm)

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TWO-DOOR FREE-STAND, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3, 3R, 4, 4X, 12; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requiremets

APPLICATION

An economical way to house electronics in corrosive environments, two-door enclosures provide easy access to equipment, larger capacity for control systems and steel reinforcements that ensure stability and strength. These enclosures feature captivated door screws and an optional POWERGLIDE Handle for secure latching.

SPECIFICATIONS

- Fiberglass-reinforced polyester material has excellent temperature and chemical resistance and exhibits outstanding physical properties. Epoxy vinyl ester material can be requested instead for protection against extremely corrosive chemical environments.
- Seams are sealed; no holes or knockouts
- Fiberglass material is easily punched, drilled, filed or sawed
- Models have either a 3-point latching system with handle or stainless steel captivated door screws
- Type 316 stainless steel POWERGLIDE Handle on handle versions
- Stainless steel captivated door screws on screw versions
- Gasket assures a watertight and dust-tight seal
- Painted steel top, bottom and side internal reinforcements standard; stainless steel corner reinforcements optional
- Solid centerpost (not removable) has heavy-gauge stiffener
- Heavy-duty Type 316 stainless steel lifting eyes
- Hinges are corrosion-resistant fiberglass with Type 316 stainless steel hinge pins
- Large data pocket (12.00 x 12.00 in. or 305 x 305 mm) is high-impact thermoplastic
- Molded-in angular sealing flange directs water away from gasket area
- Material is halogen free

FINISH

Standard fiberglass enclosure is gray inside and gel coated gray on the outside. White painted mild steel panels are included. Optional conductive panels are available.

ACCESSORIES

Accessory Selection for Free-Stand, Type 4X, page 290
Bottom Support Kits, page 293
H2OMIT Vent Drains, Type 4X, page 1322
Floor Stand Kit, page 1404
H2OMIT Thermoelectric Dehumidifier, page 1324
HOL-SEALERS Non-Metallic Hole Seals, page 1376

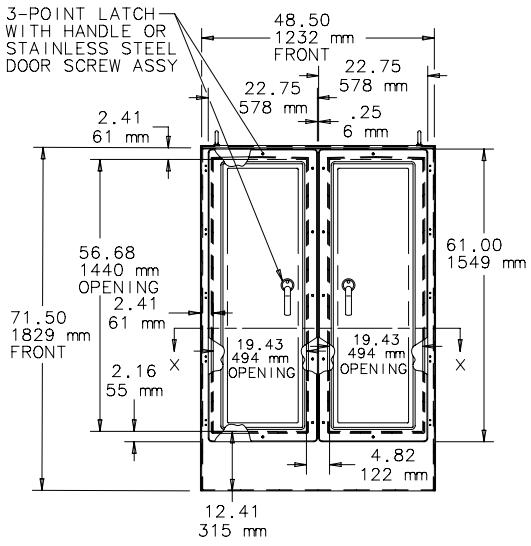
MODIFICATION AND CUSTOMIZATION

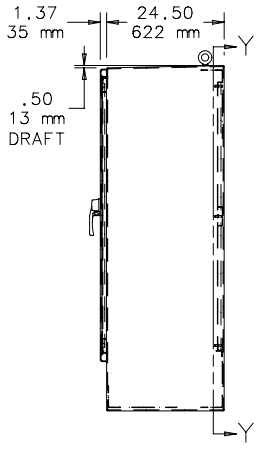
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

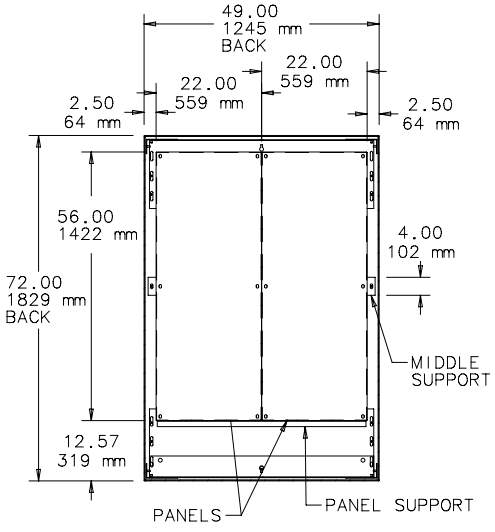
BULLETIN: A17

Standard Product

Catalog Number	AxBxC in./mm	Number of Panels	Panel Size in./mm
A724925FG	72.00 x 49.00 x 24.50 1829 x 1245 x 622	2	56.00 x 22.00 1422 x 559
A724925FGFS3PT	72.00 x 49.00 x 24.50 1829 x 1245 x 622	2	56.00 x 22.00 1422 x 559



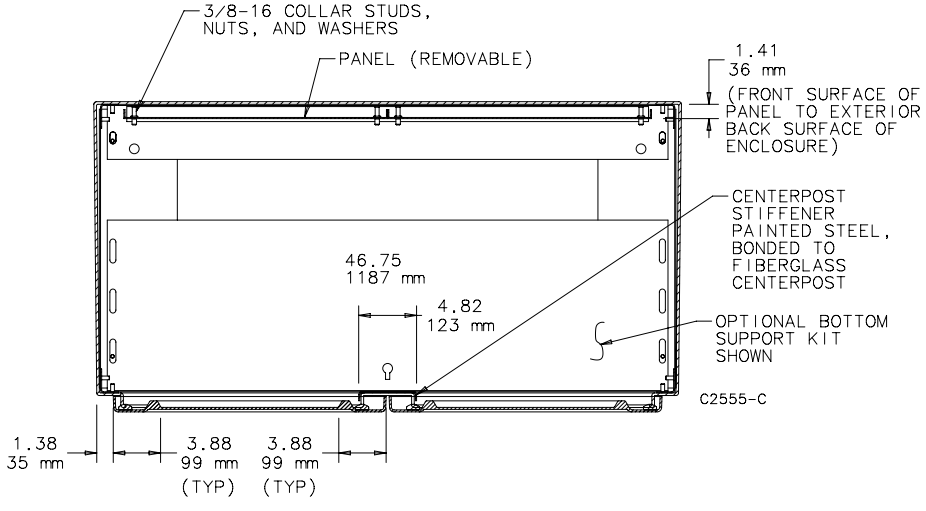




SECTION Y-Y

NOTE: 1. Upper, middle, and lower supports as well as centerpost stiffener are steel.
2. Optional Bottom Support Kit required when installing Caster, Floor-Stand Kit, or Unistrut Mounting Kit.

NOTE: Section Y-Y shown with the optional Bottom Support Kit and Unistrut Mounting Kit accessories installed.



SECTION X-X

BOTTOM SUPPORT KITS

BULLETIN: A17Y

Catalog Number	Description
A17SUPPORT2	Inside Bottom Support -- Enclosure bottom support to allow option of installing casters or floor stand kits
A17UNISTRUT	Bolt-On Unistrut Channel (8 channels) -- Painted steel unistrut for accessory mounting

A17SUPPORT2 required to install A17UNISTRUT in two-door enclosures

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QLINE D PUSHBUTTON, TYPE 4X

APPLICATION

Used for insulating and housing 30.5-mm or 22.5-mm pushbuttons in hostile environments, QLINE D Enclosures have contoured bodies with flush cover screws for an attractive, contemporary appearance.

SPECIFICATIONS

- High-impact polycarbonate material is used for both body and cover
- Polycarbonate material is easily punched, drilled, filed or sawed
- Straight side walls permit ganging of multiple enclosures
- Cross-point captivated cover screws are stainless steel
- Mounting holes molded directly adjacent to cover screws
- Cover screws protected by removable caps that are both aesthetic and provide tamper resistance
- Molded internal pads for mounting optional panels, rails or other components
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Screws provided for mounting optional panel
- Mounting hardware furnished
- Material is halogen free

FINISH

Polycarbonate enclosure material is RAL 7035 light-gray inside and out. Optional panels are unpainted plated steel.

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12
CSA File Number 42186: Type 4, 4X, 12
IEC 60529, IP67

ACCESSORIES

Hardware Kit, page 300
Hinge Kit, page 300
Mounting Bracket Kit, page 300

BULLETIN: Q41

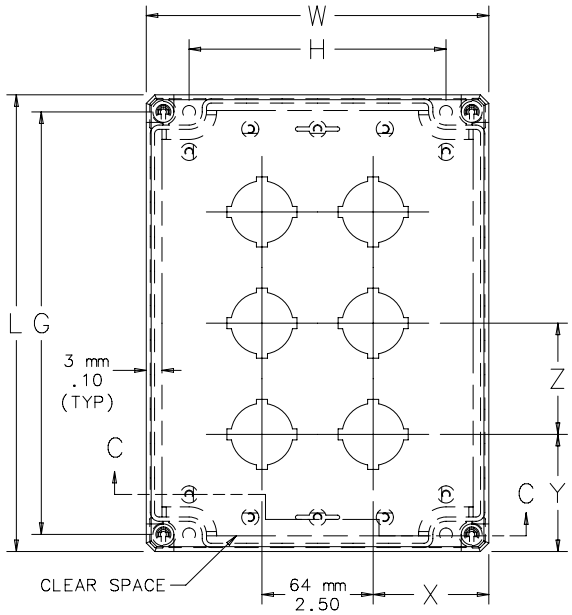
3

Standard Product

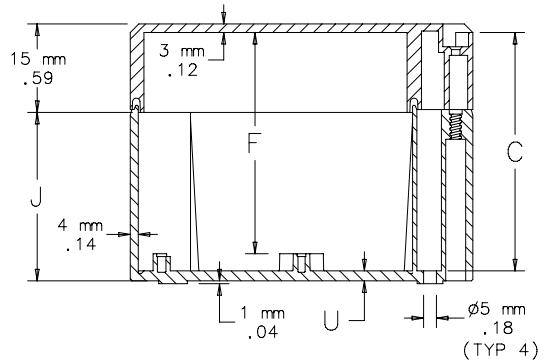
Catalog Number	AxBxC mm/in.	Hole Size mm	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	J mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	U mm/in.	X mm/in.	Y mm/in.	Z mm/in.
Q1PBPCD	75 x 73 x 79 2.95 x 2.87 x 3.11	30.5	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	58 2.28	44 1.73	— —	58 2.28	3 0.12	40 1.57	41 1.61	— —
Q1PBPCDM	75 x 73 x 79 2.95 x 2.87 x 3.11	22.5	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	58 2.28	44 1.73	— —	58 2.28	3 0.12	40 1.57	41 1.61	— —
Q2PBPCD	153 x 73 x 79 6.02 x 2.87 x 3.11	30.5	160 x 80 6.29 x 3.15	Q128PD	131 x 65 5.15 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	58 2.28	82 3.22	— —	136 3.78	3 0.12	40 1.57	36 1.42	48 1.89
Q2PBPCDM	153 x 73 x 79 6.02 x 2.87 x 3.11	22.5	160 x 80 6.29 x 3.15	Q128PD	131 x 65 5.15 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	58 2.28	82 3.22	— —	136 3.78	3 0.12	40 1.57	36 1.42	48 1.89
Q3PBPCD	193 x 113 x 79 7.60 x 4.45 x 3.11	30.5	200 x 120 7.87 x 4.72	Q168PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	90 3.54	160 6.30	— —	136 5.35	3 0.12	60 2.36	52 2.05	48 1.89
Q3PBPCDM	193 x 113 x 79 7.60 x 4.45 x 3.11	22.5	200 x 120 7.87 x 4.72	Q168PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	90 3.54	160 6.30	— —	136 5.35	3 0.12	60 2.36	52 2.05	48 1.89
Q4PBPCD	193 x 113 x 79 7.60 x 4.45 x 3.11	30.5	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	90 3.54	160 6.30	40 1.57	176 6.93	3 0.12	60 2.36	28 1.10	48 1.89
Q4PBPCDM	193 x 113 x 79 7.60 x 4.45 x 3.11	22.5	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	90 3.54	160 6.30	40 1.57	176 6.93	3 0.12	60 2.36	28 1.10	48 1.89
Q6PBPCD	233 x 153 x 84 9.17 x 6.02 x 3.29	30.5	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	78 3.07	75 2.95	138 5.43	202 7.95	75 2.95	215 8.46	4 0.16	48 1.89	56 2.20	64 2.52

A x B x C are internal dimensions.

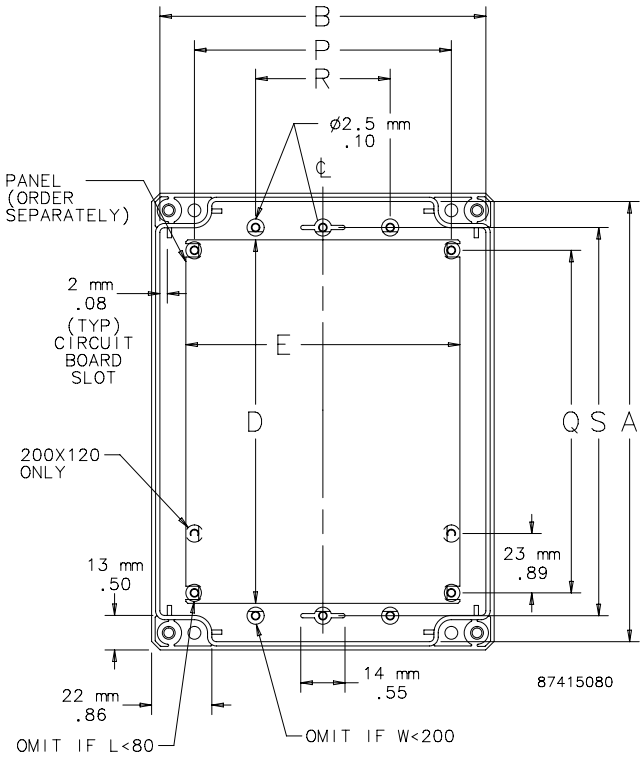
Purchase panels separately.



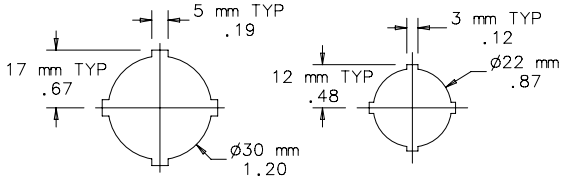
TOP VIEW



SECTION C–C



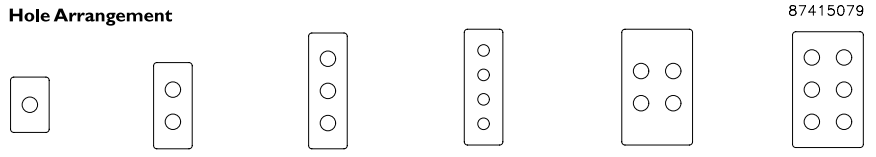
TOP VIEW WITH COVER REMOVED



30.5 mm 4-WAY 22.5 mm 4-WAY

QLINE D Polycarbonate Type 4X Pushbutton Hole Arragement Drawing

Hole Arrangement



Q1PBPCD
Q1PBPCDM

Q2PBPCD
Q2PBPCDM

Q3PBPCD
Q3PBPCDM

Q4PBPCDM

Q4PBPCD

Q6PBPCD

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QLINE D, TYPE 4X

APPLICATION

QLINE D polycarbonate and ABS enclosures have contoured bodies with flush cover screws for an attractive, contemporary appearance. Tough as well as stylish, they are functional in corrosive environments and can withstand occasional submersion. The ABS series shares the same features and similar physical properties as the polycarbonate but is a more economical, non-UL rated alternative.

SPECIFICATIONS

- Body is impact-resistant polycarbonate for PCD series and ABS for ABD series
- Opaque and clear covers are impact-resistant polycarbonate for PCD series and ABS for ABD series
- Polycarbonate material is easily punched, drilled, filed or sawed
- Straight side walls permit ganging of multiple enclosures
- Cross-point captivated cover screws are stainless steel
- Mounting holes molded directly adjacent to cover screws
- Cover screws protected by removable caps that are aesthetic and provide tamper resistance
- Molded internal pads for mounting optional panels, rails and other components
- Panel mounting feature on both body and cover
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Screws provided for mounting optional panel
- Material is halogen free

INDUSTRY STANDARDS

Polycarbonate Enclosure

UL 508A Listed; Type 4, 4X, 6, 12, 13; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 6, 12, 13; File No. E61997 Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 6, 12, 13
CSA File No. 42186: Type 4, 4X, 6, 12, 13
IEC 60529, IP67

ABS Enclosure
NEMA/EEMAC Type 4, 4X, 6, 12, 13
IEC 60529, IP67

FINISH

Polycarbonate and ABS enclosures are light-gray (RAL 7035) inside and out. Optional panels are plated steel.

ACCESSORIES

Hardware Kit, page 300
Hinge Kit, page 300
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Mounting Bracket Kit, page 300

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: Q41

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Standard Product **Polycarbonate**

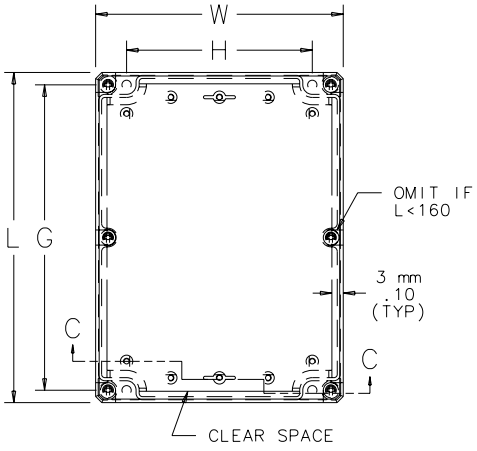
Catalog Number	AxBxC mm/in.	Cover Style	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	J mm/in.	K mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	U mm/in.
Q554PCD	53 x 55 x 36 2.09 x 2.17 x 1.42	Opaque	55 x 53 2.17 x 2.09	—	— —	43 x 41 1.69 x 1.61	28 1.10	25 0.98	10 0.39	16 0.63	— —	— —	— —	2 0.08
Q554PCDCC	53 x 55 x 36 2.09 x 2.17 x 1.42	Clear	55 x 53 2.17 x 2.09	—	— —	43 x 41 1.69 x 1.61	28 1.10	25 0.98	10 0.39	16 0.63	— —	— —	— —	2 0.08
Q886PCD	76 x 74 x 49 2.97 x 2.89 x 1.93	Opaque	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	44 1.73	— —	58 2.28	3 0.12
Q886PCDCC	76 x 74 x 49 2.97 x 2.89 x 1.93	Clear	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	44 1.73	— —	58 2.28	3 0.12
Q1286PCD	114 x 74 x 49 4.47 x 2.89 x 1.93	Opaque	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	82 3.23	— —	96 3.78	3 0.12
Q1286PCDCC	114 x 74 x 49 4.47 x 2.89 x 1.93	Clear	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	82 3.23	— —	96 3.78	3 0.12
Q1686PCD	154 x 74 x 49 6.04 x 2.89 x 1.93	Opaque	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	122 4.80	— —	136 5.35	3 0.12
Q1686PCDCC	154 x 74 x 49 6.04 x 2.89 x 1.93	Clear	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	122 4.80	— —	136 5.35	3 0.12
Q12126PCD	120 x 122 x 56 4.72 x 4.80 x 2.20	Opaque	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	42 1.65	40 1.57	15 0.59	98 3.86	84 3.31	— —	98 3.86	3 0.12
Q12126PCDCC	120 x 122 x 56 4.72 x 4.80 x 2.20	Clear	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	42 1.65	40 1.57	15 0.59	98 3.86	84 3.31	— —	98 3.86	3 0.12
Q20158PCD	150 x 200 x 76 5.91 x 7.87 x 2.99	Opaque	200 x 150 7.87 x 5.91	Q2015PD	170 x 128 6.69 x 5.04	188 x 120 7.40 x 4.72	62 2.44	60 2.36	15 0.59	118 4.65	160 6.30	118 4.65	176 6.93	3 0.12
Q20158PCDCC	150 x 200 x 76 5.91 x 7.87 x 2.99	Clear	200 x 150 7.87 x 5.91	Q2015PD	170 x 128 6.69 x 5.04	188 x 120 7.40 x 4.72	62 2.44	60 2.36	15 0.59	118 4.65	160 6.30	118 4.65	176 6.93	3 0.12
Q889PCD	80 x 82 x 86 3.15 x 3.23 x 3.39	Opaque	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	44 1.73	37 1.46	58 2.28	3 0.12
Q889PCDCC	80 x 82 x 86 3.15 x 3.23 x 3.39	Clear	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	44 1.73	37 1.46	58 2.28	3 0.12
Q1289PCD	113 x 73 x 79 4.45 x 2.87 x 3.11	Opaque	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	82 3.23	— —	96 3.78	3 0.12
Q1289PCDCC	113 x 73 x 79 4.45 x 2.87 x 3.11	Clear	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	82 3.23	— —	96 3.78	3 0.12
Q1689PCD	113 x 73 x 79 4.45 x 2.87 x 3.11	Opaque	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	122 4.80	— —	136 5.35	3 0.12
Q1689PCDCC	113 x 73 x 79 4.45 x 2.87 x 3.11	Clear	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	122 4.80	— —	136 5.35	3 0.12
Q12129PCD	120 x 122 x 86 4.72 x 4.80 x 3.39	Opaque	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	72 2.83	70 2.76	15 0.59	98 3.86	84 3.31	97 3.82	98 3.86	3 0.12
Q12129PCDCC	120 x 122 x 86 4.72 x 4.80 x 3.39	Clear	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	72 2.83	70 2.76	15 0.59	98 3.86	84 3.31	97 3.82	98 3.86	3 0.12
Q20129PCD	193 x 113 x 79 7.60 x 4.45 x 3.11	Opaque	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	15 0.59	90 3.54	160 6.30	40 1.57	176 6.93	3 0.12
Q20129PCDCC	193 x 113 x 79 7.60 x 4.45 x 3.11	Clear	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	15 0.59	90 3.54	160 6.30	40 1.57	176 6.93	3 0.12
Q30239PCD	293 x 223 x 79 11.54 x 8.78 x 3.11	Opaque	300 x 230 11.81 x 9.05	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	73 2.87	55 2.17	30 1.18	198 7.80	255 10.04	160 6.30	275 10.83	4 0.16
Q30239PCDCC	230 x 300 x 86 9.06 x 11.81 x 3.39	Clear	300 x 230 11.81 x 9.05	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	73 2.87	55 2.17	30 1.18	198 7.80	255 10.04	160 6.30	275 10.83	4 0.16
Q16129PCD	153 x 113 x 84 6.02 x 4.45 x 3.29	Opaque	160 x 120 6.30 x 4.72	Q1612PD	130 x 100 5.12 x 3.94	148 x 90 5.83 x 3.54	78 3.07	60 2.36	30 1.18	90 3.54	120 4.72	— —	136 5.35	3 0.12
Q16129PCDCC	153 x 113 x 84 6.02 x 4.45 x 3.29	Clear	160 x 120 6.30 x 4.72	Q1612PD	130 x 100 5.12 x 3.94	148 x 90 5.83 x 3.54	78 3.07	60 2.36	30 1.18	90 3.54	120 4.72	— —	136 5.35	3 0.12
Q24169PCD	233 x 153 x 84 9.17 x 6.02 x 3.29	Opaque	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	78 3.07	75 2.95	15 0.59	138 5.43	202 7.95	75 2.95	215 8.46	4 0.16
Q24169PCDCC	233 x 153 x 84 9.17 x 6.02 x 3.29	Clear	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	78 3.07	75 2.95	15 0.59	138 5.43	202 7.95	75 2.95	215 8.46	4 0.16
Q302311PCD	230 x 300 x 111 9.06 x 11.81 x 4.37	Opaque	300 x 230 11.81 x 9.06	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	98 3.86	55 2.17	55 2.17	198 7.80	255 10.04	160 6.30	275 10.83	4 0.16
Q302311PCDCC	230 x 300 x 111 9.06 x 11.81 x 4.37	Clear	300 x 230 11.81 x 9.06	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	98 3.86	55 2.17	55 2.17	198 7.80	255 10.04	160 6.30	275 10.83	4 0.16
Q241612PCD	160 x 240 x 121 6.30 x 9.45 x 4.76	Opaque	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	108 4.25	75 2.95	45 1.77	75 2.95	202 7.95	75 2.95	215 8.46	4 0.16
Q241612PCDCC	160 x 240 x 121 6.30 x 9.45 x 4.76	Clear	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	108 4.25	75 2.95	45 1.77	75 2.95	202 7.95	75 2.95	215 8.46	4 0.16

A x B x C are internal dimensions.

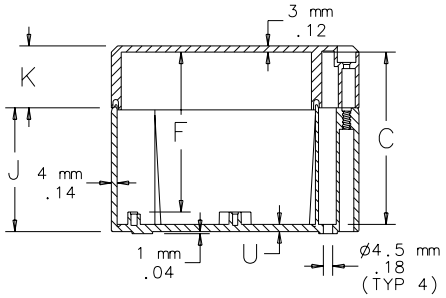
Purchase panels separately.

Standard Product **ABS**

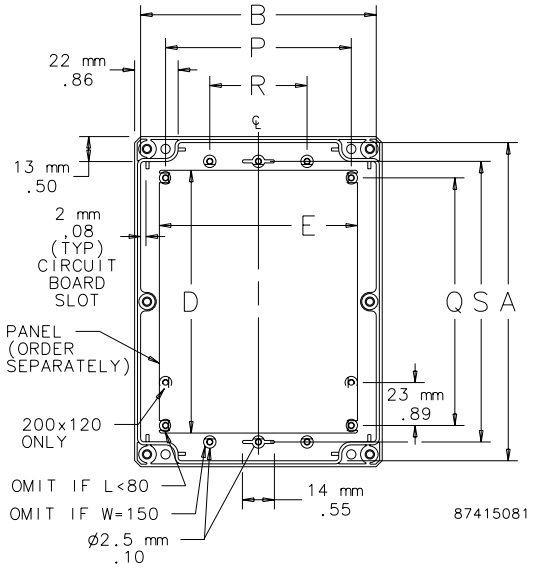
Catalog Number	AxBxC mm/in.	Cover Style	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mtg. G x H mm/in.	F mm/in.	J mm/in.	K mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	U mm/in.
Q554ABD	53 x 55 x 36 2.09 x 2.17 x 1.42	Opaque	55 x 53 2.17 x 2.09	—	— —	43 x 41 1.69 x 1.61	28 1.10	25 .98	10 .39	16 .63	— —	— —	— —	2 .08
Q554ABDCC	53 x 55 x 36 2.09 x 2.17 x 1.42	Clear	55 x 53 2.17 x 2.09	—	— —	43 x 41 1.69 x 1.61	28 1.10	25 .98	10 .39	16 .63	— —	— —	— —	2 .08
Q886ABD	80 x 82 x 56 3.15 x 3.23 x 2.20	Opaque	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 2.17	42 1.65	40 1.57	15 .59	58 2.28	44 1.73	— —	58 2.28	3 .12
Q886ABDCC	80 x 82 x 56 3.15 x 3.23 x 2.20	Clear	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 2.17	42 1.65	40 1.57	15 .59	58 2.28	44 1.73	— —	58 2.28	3 .12
Q1286ABD	80 x 120 x 56 3.15 x 4.72 x 2.20	Opaque	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	42 1.65	40 1.57	15 .59	58 2.28	82 3.23	— —	96 3.78	3 .12
Q1286ABDCC	80 x 120 x 56 3.15 x 4.72 x 2.20	Clear	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	42 1.65	40 1.57	15 .59	58 2.28	82 3.23	— —	96 3.78	3 .12
Q1686ABD	80 x 160 x 56 3.15 x 6.30 x 2.20	Opaque	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	42 1.65	40 1.57	15 .59	58 2.28	122 4.80	— —	136 5.35	3 .12
Q1686ABDCC	80 x 160 x 56 3.15 x 6.30 x 2.20	Clear	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	42 1.65	40 1.57	15 .59	58 2.28	122 4.80	— —	136 5.35	3 .12
Q12126ABD	120 x 122 x 56 4.72 x 4.80 x 2.20	Opaque	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	42 1.65	40 1.57	15 .59	98 3.86	84 3.31	— —	98 3.86	3 .12
Q12126ABDCC	120 x 122 x 56 4.72 x 4.80 x 2.20	Clear	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	42 1.65	40 1.57	15 .59	98 3.86	84 3.31	— —	98 3.86	3 .12
Q20158ABD	150 x 200 x 76 5.91 x 7.87 x 2.99	Opaque	200 x 150 7.87 x 5.91	Q2015PD	170 x 128 6.69 x 5.04	188 x 120 7.40 x 4.72	62 2.44	60 2.36	15 .59	118 4.65	160 6.30	118 4.65	176 6.93	3 .12
Q20158ABDCC	150 x 200 x 76 5.91 x 7.87 x 2.99	Clear	200 x 150 7.87 x 5.91	Q2015PD	170 x 128 6.69 x 5.04	188 x 120 7.40 x 4.72	62 2.44	60 2.36	15 .59	118 4.65	160 6.30	118 4.65	176 6.93	3 .12
Q889ABD	80 x 82 x 86 3.15 x 3.23 x 3.39	Opaque	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	44 1.73	37 1.46	58 2.28	3 .12
Q889ABDCC	80 x 82 x 86 3.15 x 3.23 x 3.39	Clear	82 x 80 3.23 x 3.15	Q88PD	68 x 55 2.68 x 2.17	70 x 50 2.76 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	44 1.73	37 1.46	58 2.28	3 .12
Q1289ABD	80 x 120 x 86 3.15 x 4.72 x 3.39	Opaque	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	82 3.23	— —	58 2.28	3 .12
Q1289ABDCC	80 x 120 x 86 3.15 x 4.72 x 3.39	Clear	120 x 80 4.72 x 3.15	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	82 3.23	— —	58 2.28	3 .12
Q1689ABD	80 x 160 x 86 3.15 x 6.30 x 3.39	Opaque	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	122 4.80	— —	136 5.35	3 .12
Q1689ABDCC	80 x 160 x 86 3.15 x 6.30 x 3.39	Clear	160 x 80 6.30 x 3.15	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	15 .59	58 2.28	122 4.80	— —	136 5.35	3 .12
Q12129ABD	120 x 122 x 86 4.72 x 4.80 x 3.39	Opaque	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	72 2.83	70 2.76	15 .59	98 3.86	84 3.31	97 3.82	98 3.86	3 .12
Q12129ABDCC	120 x 122 x 86 4.72 x 4.80 x 3.39	Clear	122 x 120 4.80 x 4.72	Q1212PD	105 x 93 4.13 x 3.66	110 x 90 4.33 x 3.54	72 2.83	70 2.76	15 .59	98 3.86	84 3.31	97 3.82	98 3.86	3 .12
Q20129ABD	120 x 200 x 86 4.72 x 7.87 x 3.39	Opaque	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	15 .59	90 3.54	160 6.30	40 1.67	176 6.93	3 .12
Q20129ABDCC	120 x 200 x 86 4.72 x 7.87 x 3.39	Clear	200 x 120 7.87 x 4.72	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	15 .59	90 3.54	160 6.30	40 1.67	176 6.93	3 .12
Q30239ABD	230 x 300 x 86 9.06 x 11.81 x 3.39	Opaque	300 x 230 11.81 x 9.05	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	73 2.87	55 2.17	30 1.18	198 7.80	255 10.04	160 6.30	275 10.83	4 .16
Q30239ABDCC	230 x 300 x 86 9.06 x 11.81 x 3.39	Clear	300 x 230 11.81 x 9.05	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	73 2.87	55 2.17	30 1.18	198 7.80	255 10.04	160 6.30	275 10.83	4 .16
Q16129ABD	120 x 160 x 91 4.72 x 6.30 x 3.58	Opaque	160 x 120 6.30 x 4.72	Q1612PD	130 x 100 5.12 x 3.94	148 x 90 5.83 x 3.54	78 3.07	60 2.36	30 1.18	90 3.54	120 4.72	— —	136 5.35	3 .12
Q16129ABDCC	120 x 160 x 91 4.72 x 6.30 x 3.58	Clear	160 x 120 6.30 x 4.72	Q1612PD	130 x 100 5.12 x 3.94	148 x 90 5.83 x 3.54	78 3.07	60 2.36	30 1.18	90 3.54	120 4.72	— —	136 5.35	3 .12
Q24169ABD	160 x 240 x 91 6.30 x 9.45 x 3.58	Opaque	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	78 3.07	75 2.95	15 .59	138 5.43	202 7.95	75 2.95	215 8.46	4 .16
Q24169ABDCC	233 x 153 x 84 9.17 x 6.02 x 3.31	Clear	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	78 3.07	75 2.95	15 .59	138 5.43	202 7.95	75 2.95	215 8.46	4 .16
Q302311ABD	230 x 300 x 111 9.06 x 11.81 x 4.37	Opaque	300 x 230 11.81 x 9.06	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	98 3.86	55 2.17	55 2.17	198 7.80	255 10.04	160 6.30	275 10.83	4 .16
Q302311ABDCC	230 x 300 x 111 9.06 x 11.81 x 4.37	Clear	300 x 230 11.81 x 9.06	Q3023PD	265 x 210 10.43 x 8.27	288 x 200 11.34 x 7.87	98 3.86	55 2.17	55 2.17	198 7.80	255 10.04	160 6.30	275 10.83	4 .16
Q241612ABD	160 x 240 x 121 6.30 x 9.45 x 4.76	Opaque	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	108 4.25	75 2.95	45 1.77	75 2.95	202 7.95	75 2.95	215 8.46	4 .16
Q241612ABDCC	160 x 240 x 121 6.30 x 9.45 x 4.76	Clear	240 x 160 9.45 x 6.30	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	108 4.25	75 2.95	45 1.77	75 2.95	202 7.95	75 2.95	215 8.46	4 .16



TOP VIEW

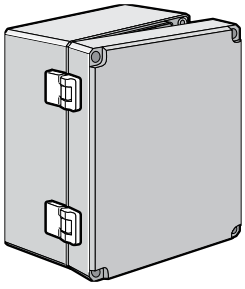


SECTION C-C



TOP VIEW WITH COVER REMOVED

HINGE KIT

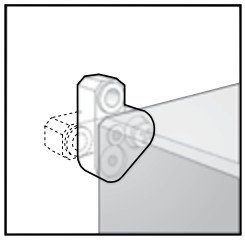


Hinge Kit includes two polyamide hinges, eight M4 self-tapping, plated screws, eight flat washers and drilling templates. Use on all QLINE D enclosures. *Hinge Kit meets Type 4 requirements.*

BULLETIN: Q41Y

Catalog Number
QDEHK

MOUNTING BRACKET KIT

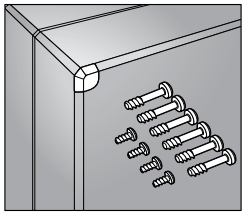


Mounting Bracket Kit has four polycarbonate brackets and four M4 self-tapping, plated screws. Kit is field-installable. Use on all QLINE D enclosures. Maintains listed ratings for enclosure.

BULLETIN: Q41Y

Catalog Number
QDMFK

HARDWARE KIT

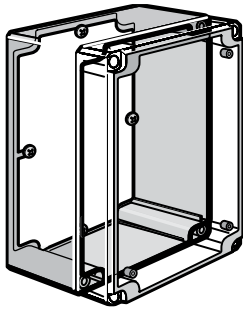


Hardware Kit includes six self-tapping, stainless steel cover screws, four self-tapping plated panel screws and six removable plastic caps that fit over the screws to provide tamper resistance as well as a clean aesthetic appearance. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

BULLETIN: Q41Y

Catalog Number
QDHK

PANELS



BULLETIN: Q41Y

Catalog Number	Panel Size D x E mm/in.	Mounting G x H mm/in.
Q88PD	65 x 55 2.56 x 2.17	44 x 60 1.71 x 2.28
Q128PD	93 x 65 3.66 x 2.56	82 x 60 3.21 x 2.28
Q168PD	133 x 65 5.24 x 2.56	121 x 60 4.78 x 2.28
Q1212PD	105 x 95 4.13 x 3.74	98 x 84 3.86 x 3.29
Q1612PD	132 x 105 5.20 x 4.13	160 x 90 6.30 x 3.54
Q2012PD	172 x 105 6.77 x 4.13	160 x 90 6.30 x 3.54
Q2015PD	172 x 133 6.77 x 5.24	160 x 118 6.30 x 4.65
Q2416PD	213 x 145 8.38 x 5.71	201 x 138 7.93 x 5.43
Q3023PD	285 x 210 11.22 x 8.27	255 x 198 10.04 x 7.50

QLINE D, EMC, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

QLINE D polycarbonate EMC enclosures have contoured bodies and flush cover screws for an attractive, contemporary appearance while also providing EMC protection in corrosive environments.

SPECIFICATIONS

- Body is impact-resistant polycarbonate
- EMC conductive coating in base and cover
- Gasket of silver/silicone
- Mounting holes molded directly under cover screws
- Cross-point captivated cover screws are stainless steel
- Mounting tracks along body side walls and bosses on cover for PC card installation
- Cover screws protected by removable caps that are both aesthetic and provide tamper resistance
- Molded internal pads for mounting optional panels, rails and other components
- Screws provided for mounting optional panel

FINISH

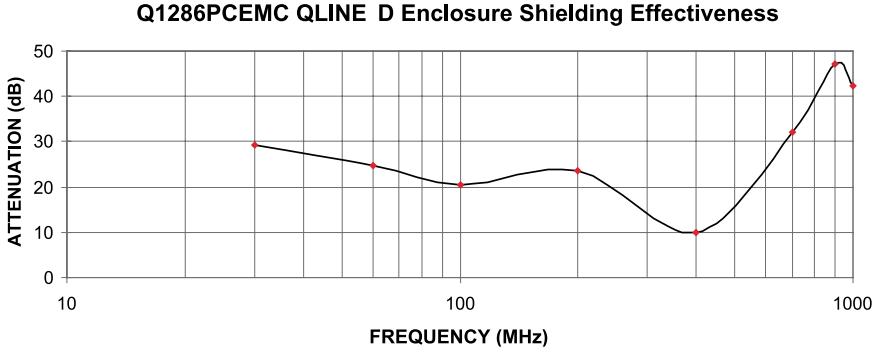
Enclosure material is RAL 7035 light-gray outside. Optional panels are conductive steel.

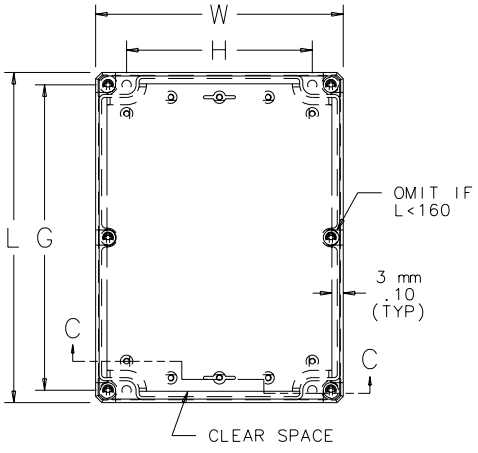
BULLETIN: Q41EM

Standard Product

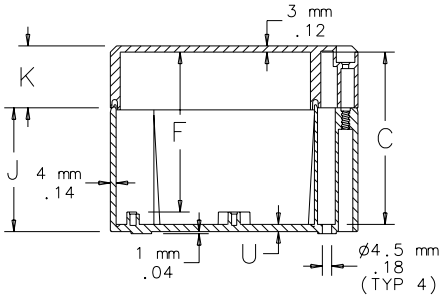
Catalog Number	AxBxC mm/in.	External Dimensions L x W mm/in.	Internal Dimensions A x B x C mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	J mm/in.	K mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	U mm/in.
Q1286PCEMC	120 x 80 x 55 4.72 x 3.15 x 2.17	120 x 80 4.72 x 3.15	114 x 74 x 49 4.47 x 2.89 x 1.93	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	42 1.65	40 1.57	15 0.59	58 2.28	82 3.21	— —	96 3.78	3 0.12
Q1289PCEMC	120 x 80 x 85 4.72 x 3.15 x 3.35	120 x 80 4.72 x 3.15	113 x 73 x 79 4.45 x 2.87 x 3.11	Q128PD	91 x 65 3.58 x 2.56	108 x 50 4.25 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	82 3.21	— —	96 3.78	3 0.12
Q16129PCEMC	160 x 120 x 90 6.30 x 4.72 x 3.54	160 x 120 6.30 x 4.72	153 x 113 x 84 6.02 x 4.45 x 3.29	Q1612PD	130 x 100 5.12 x 3.94	148 x 90 5.83 x 3.54	77.5 3.05	60 2.36	30 1.18	90 3.54	120 4.72	— —	136 5.35	3 0.12
Q1689PCEMC	160 x 80 x 85 6.30 x 3.15 x 3.35	160 x 80 6.30 x 3.15	153 x 73 x 79 6.02 x 2.87 x 3.11	Q168PD	131 x 65 5.16 x 2.56	148 x 50 5.83 x 1.97	72 2.83	70 2.76	15 0.59	58 2.28	122 4.78	— —	136 5.35	3 0.12
Q20129PCEMC	200 x 120 x 85 7.87 x 4.72 x 3.35	200 x 120 7.87 x 4.72	193 x 113 x 79 7.60 x 4.45 x 3.11	Q2012PD	170 x 100 6.69 x 3.94	188 x 90 7.40 x 3.54	72 2.83	70 2.76	15 0.59	90 3.54	160 6.30	40 1.57	176 6.93	3 0.12
Q24169PCEMC	240 x 160 x 90 9.45 x 6.30 x 3.54	240 x 160 9.45 x 6.30	233 x 153 x 84 9.17 x 6.02 x 3.29	Q2416PD	211 x 148 8.31 x 5.83	228 x 130 8.98 x 5.12	77.5 3.05	75 2.95	15 0.59	138 5.43	202 7.93	75 2.95	215 8.46	3.5 0.14

Purchase panels separately.

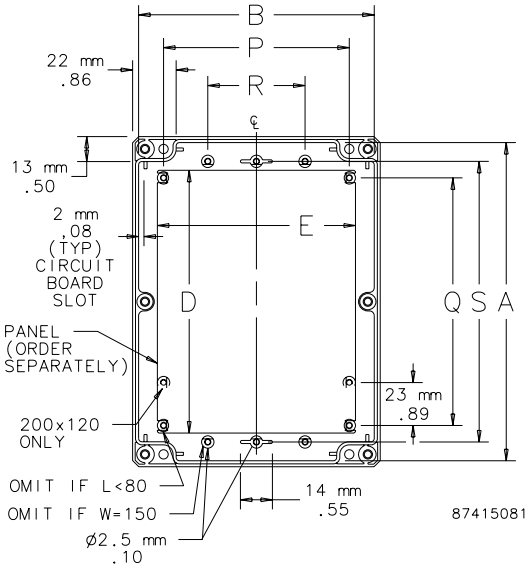




TOP VIEW



SECTION C-C



TOP VIEW WITH COVER REMOVED

QLINE E, TYPE 4X

APPLICATION

QLINE E Enclosures house larger controls, provide additional size-range options and offer greater internal mounting flexibility than smaller QLINE products. Featuring contoured bodies with flush cover screws, they are functional in corrosive environments and can withstand occasional submersion.
The ABS series shares the same features and similar physical properties as the polycarbonate but is a more economical, non-UL rated alternative.

SPECIFICATIONS

- Body is impact-resistant polycarbonate for PCE series and ABS for ABE series
- Opaque and clear covers are impact-resistant polycarbonate for PCE, opaque covers are ABS for ABE series
- Polycarbonate and ABS material is easily punched, drilled, filed or sawed
- Cross-point flush cover screws are strong, durable polyamide
- Cover includes a molded-in wire lead hole
- Mounting tracks along body side walls for PC card installation
- Molded internal pads for mounting optional panels, rails and other components
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Material is halogen free

FINISH

Polycarbonate and ABS enclosure material is RAL 7035 light-gray inside and out. Optional panels are plated steel.

ACCESSORIES

Brass Inserts, page 307
Hardware Kit, page 307
Hinge Kit, page 307
HOL-SEALERS Non-Metallic Hole Seals, page 1376
Mounting Bracket Kit, page 307

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: Q41

INDUSTRY STANDARDS

Polycarbonate Enclosure

UL 508A Listed; Type 4, 4X, 6, 12, 13; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 6, 12, 13; File No. E61997 Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 6, 12, 13
CSA File No. 42186: Type 4, 4X, 12, 13
IEC 60529, IP67

ABS Enclosure
NEMA/EEMAC Type 4, 4X, 6, 12, 13
IEC 60529, IP67

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Standard Product **Polycarbonate**

Catalog Number	AxBxC mm/in.	Cover Style	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	K mm/in.	P mm/in.	Q mm/in.	S mm/in.
Q1388PCE	119 x 69 x 67 4.69 x 2.72 x 2.64	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	61 2.40	25 0.98	40 1.57	75 2.95	90 3.54
Q1388PCECC	119 x 69 x 67 4.67 x 2.70 x 2.65	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	61 2.40	25 0.98	40 1.57	75 2.95	90 3.54
Q13138PCE	119 x 119 x 67 4.67 x 4.67 x 2.65	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	61 2.40	25 0.98	90 3.54	75 2.95	90 3.54
Q13138PCECC	119 x 119 x 67 4.67 x 4.67 x 2.65	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	61 2.40	25 0.98	90 3.54	75 2.95	90 3.54
Q18138PCE	169 x 119 x 67 6.63 x 4.67 x 2.65	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	61 2.40	25 0.98	90 3.54	100 3.94	140 5.51
Q18138PCECC	169 x 119 x 67 6.63 x 4.67 x 2.65	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	61 2.40	25 0.98	90 3.54	100 3.94	140 5.51
Q18188PCE	169 x 169 x 67 6.63 x 6.63 x 2.65	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	61 2.40	25 0.98	140 5.51	125 4.92	140 5.51
Q18188PCECC	169 x 169 x 67 6.63 x 6.63 x 2.65	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	61 2.40	25 0.98	140 5.51	125 4.92	140 5.51
Q25188PCE	244 x 169 x 67 9.59 x 6.63 x 2.65	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	61 2.40	25 0.98	139 5.47	202 7.95	215 8.46
Q25188PCECC	244 x 169 x 67 9.59 x 6.63 x 2.65	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	61 2.40	25 0.98	139 5.47	202 7.95	215 8.46
Q13810PCE	119 x 69 x 92 4.67 x 2.70 x 3.64	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	86 3.39	50 1.97	40 1.57	75 2.95	90 3.54
Q13810PCECC	119 x 69 x 92 4.67 x 2.70 x 3.64	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	86 3.39	50 1.97	40 1.57	75 2.95	90 3.54
Q131310PCE	119 x 119 x 92 4.67 x 4.67 x 3.64	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	86 3.39	50 1.97	90 3.54	75 2.95	90 3.54
Q131310PCECC	119 x 119 x 92 4.67 x 4.67 x 3.64	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	86 3.39	50 1.97	90 3.54	75 2.95	90 3.54
Q181310PCE	169 x 119 x 92 6.63 x 4.67 x 3.64	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	86 3.39	50 1.97	90 3.54	100 3.94	140 5.51
Q181310PCECC	169 x 119 x 92 6.63 x 4.67 x 3.64	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	86 3.39	50 1.97	90 3.54	100 3.94	140 5.51
Q181810PCE	169 x 169 x 92 6.63 x 6.63 x 3.64	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	86 3.39	50 1.97	140 5.51	125 4.92	140 5.51
Q181810PCECC	169 x 169 x 92 6.63 x 6.63 x 3.64	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	86 3.39	50 1.97	140 5.51	125 4.92	140 5.51
Q251810PCE	244 x 169 x 92 9.59 x 6.63 x 3.64	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	86 3.39	50 1.97	139 5.47	202 7.95	215 8.46
Q251810PCECC	244 x 169 x 92 9.59 x 6.63 x 3.64	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	86 3.39	50 1.97	139 5.47	202 7.95	215 8.46
Q13813PCE	119 x 69 x 117 4.67 x 2.70 x 4.62	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	111 4.37	75 2.95	40 1.57	75 2.95	90 3.54
Q13813PCECC	119 x 69 x 117 4.67 x 2.70 x 4.62	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	111 4.37	75 2.95	40 1.57	75 2.95	90 3.54
Q131313PCE	119 x 119 x 117 4.67 x 4.67 x 4.62	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	111 4.37	75 2.95	90 3.54	75 2.95	90 3.54
Q131313PCECC	119 x 119 x 117 4.67 x 4.67 x 4.62	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	111 4.37	75 2.95	90 3.54	75 2.95	90 3.54
Q181313PCE	169 x 119 x 117 6.63 x 4.67 x 4.62	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	111 4.37	75 2.95	90 3.54	100 3.94	140 5.51
Q181313PCECC	169 x 119 x 117 6.63 x 4.67 x 4.62	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	111 4.37	75 2.95	90 3.54	100 3.94	140 5.51
Q181813PCE	169 x 169 x 117 6.63 x 6.63 x 4.62	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	111 4.37	75 2.95	140 5.51	125 4.92	140 5.51
Q181813PCECC	169 x 169 x 117 6.63 x 6.63 x 4.62	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	111 4.37	75 2.95	140 5.51	125 4.92	140 5.51
Q181315PCE	169 x 119 x 142 6.63 x 4.67 x 5.61	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	136 5.35	100 3.94	90 3.54	100 3.94	140 5.51
Q181315PCECC	169 x 119 x 142 6.63 x 4.67 x 5.61	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	136 5.35	100 3.94	90 3.54	100 3.94	140 5.51
Q181815PCE	169 x 169 x 142 6.63 x 6.63 x 5.61	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	136 5.35	100 3.94	140 5.51	125 4.92	140 5.51
Q181815PCECC	169 x 169 x 142 6.63 x 6.63 x 5.61	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	136 5.35	100 3.94	140 5.51	125 4.92	140 5.51
Q251815PCE	244 x 169 x 142 9.59 x 6.63 x 5.61	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	136 5.35	100 3.94	139 5.47	202 7.95	215 8.46
Q251815PCECC	244 x 169 x 142 9.59 x 6.63 x 5.61	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	136 5.35	100 3.94	139 5.47	202 7.95	215 8.46

A x B x C are internal dimensions.

Purchase panels separately.

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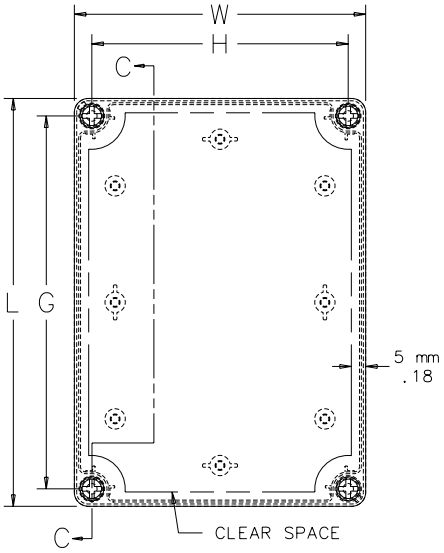
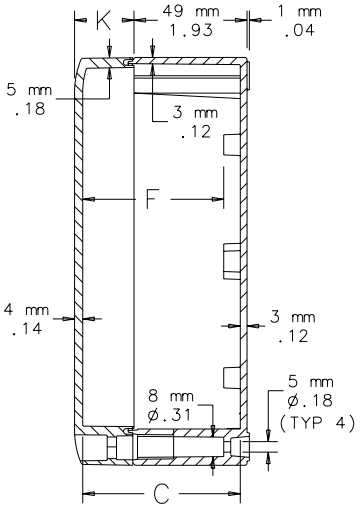
Standard Product **ABS**

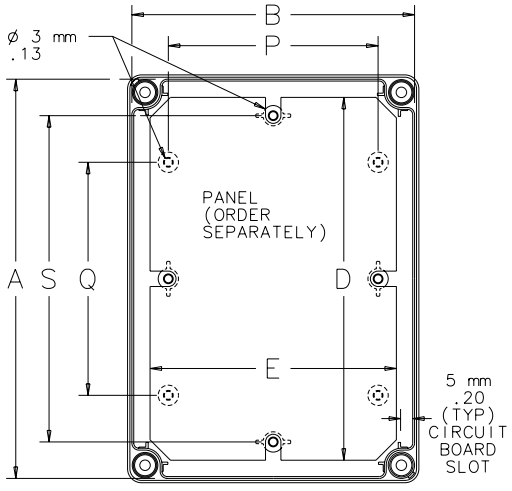
Catalog Number	AxBxC mm/in.	Cover Style	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	K mm/in.	P mm/in.	Q mm/in.	S mm/in.
Q1388ABE	75 x 125 x 75 2.95 x 4.92 x 2.95	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	61 2.40	25 .98	40 1.57	75 2.95	90 3.54
Q1388ABECC	75 x 125 x 75 2.95 x 4.92 x 2.95	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	61 2.40	25 .98	40 1.57	75 2.95	90 3.54
Q13138ABE	125 x 125 x 75 4.92 x 4.92 x 2.95	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	61 2.40	25 .98	90 3.54	75 2.95	90 3.54
Q13138ABECC	125 x 125 x 75 4.92 x 4.92 x 2.95	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	61 2.40	25 .98	90 3.54	75 2.95	90 3.54
Q18138ABE	125 x 175 x 75 4.92 x 6.89 x 2.95	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	61 2.40	25 .98	90 3.54	100 3.94	140 5.51
Q18138ABECC	125 x 175 x 75 4.92 x 6.89 x 2.95	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	61 2.40	25 .98	90 3.54	100 3.94	140 5.51
Q18188ABE	175 x 175 x 75 6.89 x 6.89 x 2.95	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	61 2.40	25 .98	140 5.51	125 4.92	140 5.51
Q18188ABECC	175 x 175 x 75 6.89 x 6.89 x 2.95	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	61 2.40	25 .98	140 5.51	125 4.92	140 5.51
Q25188ABE	175 x 250 x 75 6.89 x 9.84 x 2.95	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	61 2.40	25 .98	139 5.47	202 7.95	215 8.46
Q25188ABECC	175 x 250 x 75 6.89 x 9.84 x 2.95	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	61 2.40	25 .98	139 5.47	202 7.95	215 8.46
Q13810ABE	119 x 69 x 92 4.67 x 2.70 x 3.64	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	86 3.39	50 1.97	40 1.57	75 2.95	90 3.54
Q13810ABECC	75 x 125 x 100 2.95 x 4.92 x 3.94	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	86 3.39	50 1.97	40 1.57	75 2.95	90 3.54
Q131310ABE	119 x 119 x 92 4.67 x 4.67 x 3.64	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	86 3.39	50 1.97	90 3.54	75 2.95	90 3.54
Q131310ABECC	125 x 125 x 100 4.92 x 4.92 x 3.94	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	86 3.39	50 1.97	90 3.54	75 2.95	90 3.54
Q181310ABE	169 x 119 x 92 6.63 x 4.67 x 3.64	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	86 3.39	50 1.97	90 3.54	100 3.94	140 5.51
Q181310ABECC	125 x 175 x 100 4.92 x 6.89 x 3.94	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	86 3.39	50 1.97	90 3.54	100 3.94	140 5.51
Q181810ABE	169 x 169 x 92 6.63 x 6.63 x 3.64	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	5.83 x 5.83 6.30 x 6.30	86 3.39	50 1.97	140 5.51	125 4.92	140 5.51
Q181810ABECC	175 x 175 x 100 6.89 x 6.89 x 3.94	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	5.83 x 5.83 6.30 x 6.30	86 3.39	50 1.97	140 5.51	125 4.92	140 5.51
Q251810ABE	244 x 169 x 92 9.59 x 6.63 x 3.64	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	86 3.39	50 1.97	139 5.47	202 7.95	215 8.46
Q251810ABECC	175 x 250 x 100 6.89 x 9.84 x 3.94	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	86 3.39	50 1.97	139 5.47	202 7.95	215 8.46
Q13813ABE	75 x 125 x 125 2.95 x 4.92 x 4.92	Opaque	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	111 4.37	75 2.95	40 1.57	75 2.95	90 3.54
Q13813ABECC	75 x 125 x 125 2.95 x 4.92 x 4.92	Clear	125 x 75 4.92 x 2.95	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	111 4.37	75 2.95	40 1.57	75 2.95	90 3.54
Q131313ABE	125 x 125 x 125 4.92 x 4.92 x 4.92	Opaque	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	111 4.37	75 2.95	90 3.54	75 2.95	90 3.54
Q131313ABECC	125 x 125 x 125 4.92 x 4.92 x 4.92	Clear	125 x 125 4.92 x 4.92	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	111 4.37	75 2.95	90 3.54	75 2.95	90 3.54
Q181313ABE	125 x 175 x 125 4.92 x 6.89 x 4.92	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	111 4.37	75 2.95	90 3.54	100 3.94	140 5.51
Q181313ABECC	125 x 175 x 125 4.92 x 6.89 x 4.92	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	111 4.37	75 2.95	90 3.54	100 3.94	140 5.51
Q181813ABE	175 x 175 x 125 6.89 x 6.89 x 4.92	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	111 4.37	75 2.95	140 5.51	125 4.92	140 5.51
Q181813ABECC	175 x 175 x 125 6.89 x 6.89 x 4.92	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	111 4.37	75 2.95	140 5.51	125 4.92	140 5.51
Q181315ABE	169 x 119 x 142 6.63 x 4.67 x 5.61	Opaque	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	136 5.35	100 3.94	90 3.54	100 3.94	140 5.51
Q181315ABECC	125 x 175 x 150 4.92 x 6.89 x 5.91	Clear	175 x 125 6.89 x 4.92	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	136 5.35	100 3.94	90 3.54	100 3.94	140 5.51
Q181815ABE	169 x 169 x 142 6.63 x 6.63 x 5.61	Opaque	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	136 5.35	100 3.94	140 5.51	125 4.92	140 5.51
Q181815ABECC	175 x 175 x 150 6.89 x 6.89 x 5.91	Clear	175 x 175 6.89 x 6.89	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	136 5.35	100 3.94	140 5.51	125 4.92	140 5.51
Q251815ABE	244 x 169 x 142 9.59 x 6.63 x 5.61	Opaque	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	136 5.35	100 3.94	139 5.47	202 7.95	215 8.46
Q251815ABECC	175 x 250 x 150 6.89 x 9.84 x 5.91	Clear	250 x 175 9.84 x 6.89	Q2518PE	223 x 148 8.78 x 5.83	235 x 160 9.25 x 6.30	136 5.35	100 3.94	139 5.47	202 7.95	215 8.46



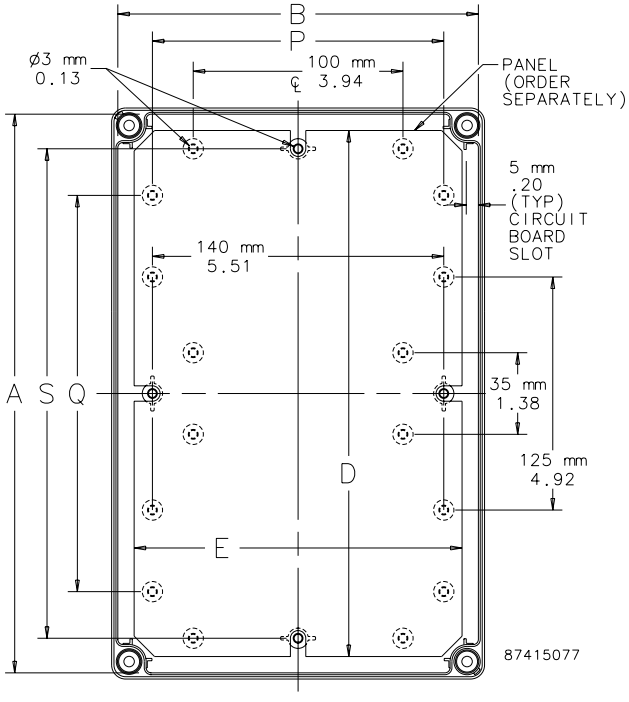
TOP VIEW



SECTION C-C

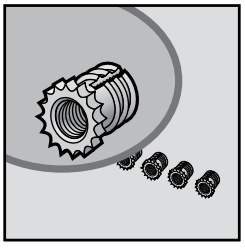


TOP VIEW WITH COVER REMOVED



TOP VIEW WITH COVER REMOVED (WHEN L=250)

BRASS INSERTS

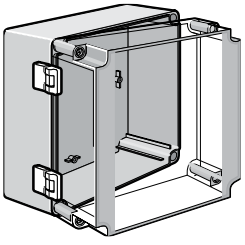


Self-tapping Brass Inserts fit into molded pads in the bottom of the enclosure. Inserts have an M2 internal machine screw thread and M4 self-tapping external thread.

BULLETIN: Q41Y

Catalog Number	Description	Qty. Pkg.
QEBI	M2 thread inserts	4

HINGE KIT

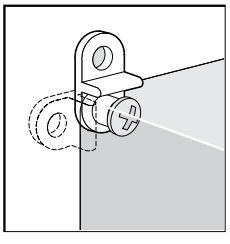


Includes two polyamid hinges, eight M4 self-tapping zinc-plated screws, eight flat washers and drilling template. Use on all QLINE E enclosures.
Kit might not meet Type 4 requirements and should, therefore, be verified by customer.

BULLETIN: Q41Y

Catalog Number
QDEHK

MOUNTING BRACKET KIT

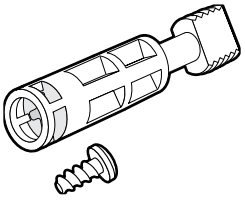


Kit includes four polycarbonate brackets and four M4 self-tapping, plated screws. Use on all QLINE E enclosures. No modification to the enclosure is required for installation. Maintains listed ratings.

BULLETIN: Q41Y

Catalog Number
QEMFK

HARDWARE KIT

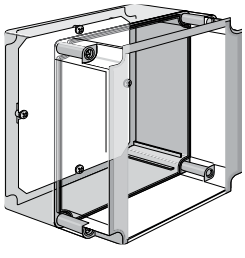


Four cross-point polyamide cover screws and four self-tapping plated screws used to mount optional panels, rails and other components. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

BULLETIN: Q41Y

Catalog Number	Description	Fits QLINE Enclosure
QEHK35	35-mm screw	when C = 67 mm, 117 mm or 142 mm
QEHK60	60-mm screw	when C = 92 mm

PANELS



BULLETIN: Q41Y

Catalog Number	Panel Size D x E mm/in.
Q138PE	98 x 48 3.86 x 1.89
Q1313PE	98 x 98 3.86 x 3.86
Q1813PE	148 x 98 5.83 x 3.86
Q1818PE	148 x 148 5.83 x 5.83
Q2518PE	223 x 148 8.78 x 5.83

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QLINE E, EMC, TYPE 4X

APPLICATION

Medium-size QLINE E polycarbonate EMC enclosures have contoured bodies and flush cover screws for an attractive, contemporary appearance while also providing EMC protection in corrosive environments.

SPECIFICATIONS

- Body is impact-resistant polycarbonate
- EMC conductive coating in base and cover
- Gasket of silver/silicone
- Mounting holes molded directly under cover screws
- Screws provided for mounting optional panel
- Polycarbonate material is easily punched, drilled, filed or sawed
- Cross-point flush cover screws are strong, durable polyamide
- Mounting tracks along body side walls for PC card installation
- Molded internal pads for mounting optional panels, rails and other components

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94: Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
IEC 60529, IP66

FINISH

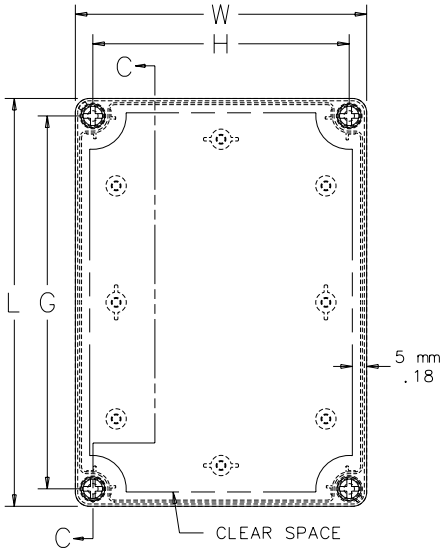
Enclosure material is RAL 7035 light-gray outside. Optional panels are conductive steel.

BULLETIN: Q41EM

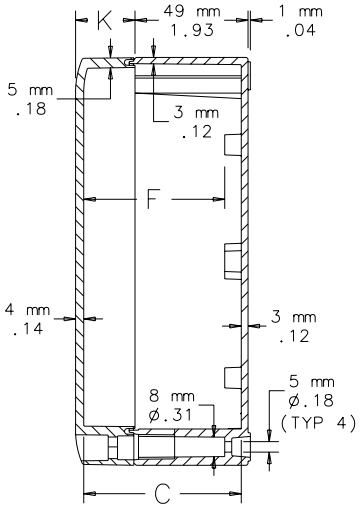
Standard Product

Catalog Number	AxBxC mm/in.	External Dimensions L x W mm/in.	Internal Dimensions A x B x C mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	K mm/in.	P mm/in.	Q mm/in.	S mm/in.	T mm/in.	W mm/in.	X mm/in.
Q1388PCEMC	125 x 75 x 74 4.92 x 2.95 x 2.91	125 x 75 4.92 x 2.95	119 x 69 x 67 4.67 x 2.70 x 2.65	Q138PE	98 x 48 3.86 x 1.89	110 x 60 4.33 x 2.36	61 2.38	25 0.98	40 1.57	75 2.95	90 3.54	— —	— —	— —
Q13138PCEMC	125 x 125 x 74 4.92 x 4.92 x 2.91	125 x 125 4.92 x 4.92	119x 119 x 67 4.67 x 4.67 x 2.65	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	61 2.38	25 0.98	90 3.54	75 2.95	90 3.54	— —	23 0.89	— —
Q131310PCEMC	125 x 125 x 99 4.90 x 4.90 x 3.90	125 x 125 4.92 x 4.92	119 x 119 x 92 4.67 x 4.67 x 3.64	Q1313PE	98 x 98 3.86 x 3.86	110 x 110 4.33 x 4.33	86 3.37	25 0.98	90 3.54	75 2.95	90 3.54	— —	23 0.89	— —
Q18138PCEMC	175 x 125 x 74 6.89 x 4.92 x 2.91	175 x 125 6.89 x 4.92	169 x 119 x 67 6.63 x 4.67 x 2.65	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	61 2.38	25 0.98	90 3.54	100 3.94	140 5.51	15 0.59	23 0.89	— —
Q181310PCEMC	175 x 125 x 99 6.89 x 4.92 x 3.90	175 x 125 6.89 x 4.92	169 x 119 x 92 6.63 x 4.67 x 3.64	Q1813PE	148 x 98 5.83 x 3.86	160 x 110 6.30 x 4.33	86 3.37	50 1.97	90 3.54	100 3.94	140 5.51	15 0.59	23 0.89	— —
Q18188PCEMC	175 x 175 x 74 6.89 x 6.89 x 2.91	175 x 175 6.89 x 6.89	169 x 169 x 67 6.63 x 6.63 x 2.65	Q1818PE	148 x 148 5.83 x 5.83	160 x 160 6.30 x 6.30	61 2.38	25 0.98	140 5.51	125 4.92	140 5.51	— —	15 0.59	35 1.38

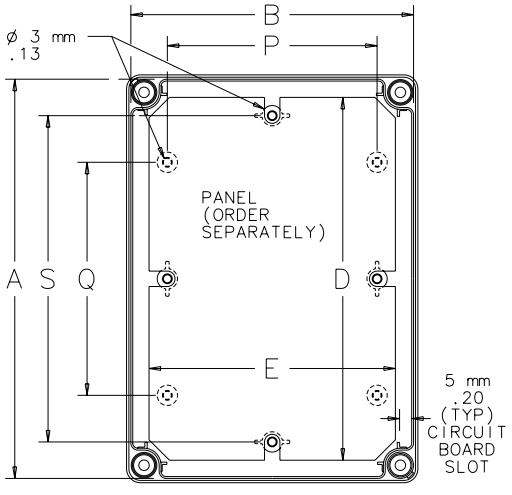
Purchase panels separately.



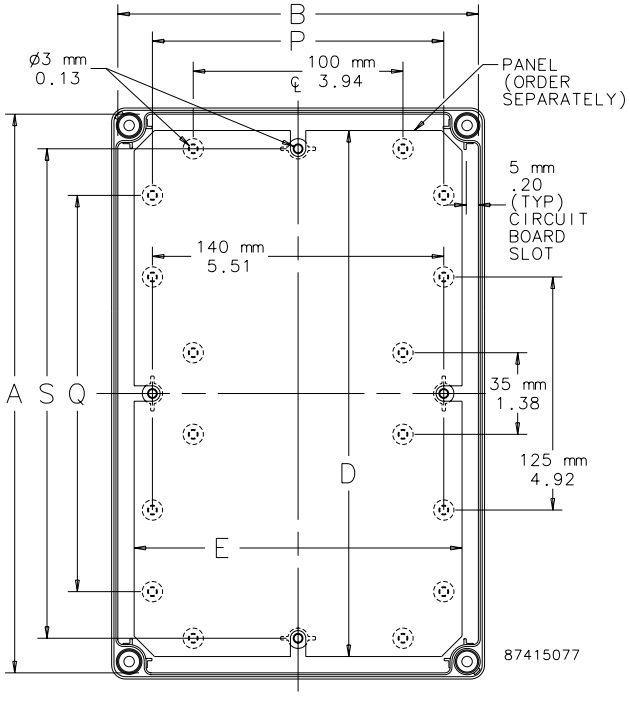
TOP VIEW



SECTION C-C



TOP VIEW WITH COVER REMOVED



TOP VIEW WITH COVER REMOVED (WHEN L=250)

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QLINE I, TYPE 4X

INDUSTRY STANDARDS

Polycarbonate Enclosure

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997 cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997 Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12, 13
IEC 60529, IP66

ABS Enclosure
NEMA/EEMAC Type 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

The largest-sized QLINE enclosure, QLINE I provides easy access and protects larger controls from corrosive environments. Choose from screw cover, hinge, internal mounting, variable depth and quick-release latch options to meet your design and security requirements.
The ABS series shares the same features and similar physical properties as the polycarbonate but is a more economical, non-UL rated alternative.

SPECIFICATIONS

- Body is impact-resistant polycarbonate for PCI series and ABS for ABI series
- Opaque and clear covers are impact-resistant polycarbonate for PCI; opaque covers are ABS for ABI series
- Polycarbonate and ABS material is easily punched, drilled, filed or sawed
- Mounting holes molded directly under cover screws
- Molded internal pads for mounting optional panels, rails and other components
- Molded internal rails for mounting adjustable-depth panel kit
- Screws provided for mounting optional panel
- Optional extension rings are molded polycarbonate
- Cover includes a molded-in hole for wire lead
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Material is halogen free

Screw Cover Enclosures have easy-to-remove covers attached to body with strong, durable polyamide cross-point cover screws.
Enclosures with Quick-Release Latches have polycarbonate hinges and polyester latches with a padlock provision.

FINISH

Polycarbonate and ABS enclosure material is RAL 7035 light-gray inside and out. Optional panels are plated steel.

ACCESSORIES

Brass Inserts, page 307
Cover Screw Kit, page 316
Extension Rings, page 317
Hardware Kit, page 317
Hinge Kit, page 317
Mounting Bracket Kit, page 317
Panel Depth Fitting, page 316
H2OMIT Vent Drains, Type 4X, page 1322
HOL-SEALERS Non-Metallic Hole Seals, page 1376

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: Q41

Standard Product **Polycarbonate**

Catalog Number	AxBxC mm/in.	Cover Style	Cover Type	External Dim's L x W mm/in.	Panel	Panel Size D x E mm/in.	Extension Ring	Mounting G x H mm/in.	F mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	T mm/in.	U mm/in.	Y mm/in.	Z mm/in.
Q202013PCI	188 x 188 x 123 7.40 x 7.40 x 4.84	Opaque	Screw Cover	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202013PCICC	188 x 188 x 123 7.40 x 7.40 x 4.84	Clear	Screw Cover	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	120 4.33	100 3.94	100 3.94
Q302013PCI	288 x 188 x 123 11.34 x 7.40 x 4.84	Opaque	Screw Cover	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q302013PCICC	288 x 188 x 123 11.34 x 7.40 x 4.84	Clear	Screw Cover	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q402013PCI	388 x 188 x 123 15.28 x 7.40 x 4.84	Opaque	Screw Cover	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402013PCICC	388 x 188 x 123 15.28 x 7.40 x 4.84	Clear	Screw Cover	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303013PCI	288 x 288 x 123 11.34 x 11.34 x 4.84	Opaque	Screw Cover	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303013PCICC	288 x 288 x 123 11.34 x 11.34 x 4.84	Clear	Screw Cover	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403013PCI	388 x 288 x 123 15.28 x 11.34 x 4.84	Opaque	Screw Cover	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403013PCICC	388 x 288 x 123 15.28 x 11.34 x 4.84	Clear	Screw Cover	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q603013PCI	300 x 600 x 130 11.81 x 23.62 x 5.12	Opaque	Screw Cover	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q603013PCICC	300 x 600 x 130 11.81 x 23.62 x 5.12	Clear	Screw Cover	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q604013PCI	400 x 600 x 130 15.75 x 23.62 x 5.12	Opaque	Screw Cover	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q604013PCICC	400 x 600 x 130 15.75 x 23.62 x 5.12	Clear	Screw Cover	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q202018PCI	188 x 188 x 173 7.40 x 7.40 x 6.81	Opaque	Screw Cover	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	165 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202018PCICC	188 x 188 x 173 7.40 x 7.40 x 6.81	Clear	Screw Cover	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	165 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q302018PCI	288 x 188 x 173 11.34 x 7.40 x 6.81	Opaque	Screw Cover	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q302018PCICC	288 x 188 x 173 11.34 x 7.40 x 6.81	Clear	Screw Cover	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q402018PCI	388 x 188 x 173 15.28 x 7.40 x 6.81	Opaque	Screw Cover	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402018PCICC	388 x 188 x 173 15.28 x 7.40 x 6.81	Clear	Screw Cover	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303018PCI	288 x 288 x 173 11.34 x 11.34 x 6.81	Opaque	Screw Cover	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303018PCICC	288 x 288 x 173 11.34 x 11.34 x 6.81	Clear	Screw Cover	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403018PCI	388 x 288 x 173 15.28 x 11.34 x 6.81	Opaque	Screw Cover	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403018PCICC	388 x 288 x 173 15.28 x 11.34 x 6.81	Clear	Screw Cover	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q603018PCI	300 x 600 x 180 11.81 x 23.62 x 7.09	Opaque	Screw Cover	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q603018PCICC	300 x 600 x 180 11.81 x 23.62 x 7.09	Clear	Screw Cover	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q604018PCI	400 x 600 x 180 15.75 x 23.62 x 7.09	Opaque	Screw Cover	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q604018PCICC	400 x 600 x 180 15.75 x 23.62 x 7.09	Clear	Screw Cover	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q202013PCIQRR	200 x 200 x 130 7.87 x 7.87 x 5.12	Opaque	QR Latch	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	—	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202013PCIQRCCR	200 x 200 x 130 7.87 x 7.87 x 5.12	Clear	QR Latch	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	—	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q302013PCIQRR	200 x 300 x 130 7.87 x 11.81 x 5.12	Opaque	QR Latch	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	—	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q302013PCIQRCCR	200 x 300 x 130 7.87 x 11.81 x 5.12	Clear	QR Latch	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	—	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q402013PCIQRR	200 x 400 x 130 7.87 x 15.75 x 5.12	Opaque	QR Latch	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	—	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402013PCIQRCCR	200 x 400 x 130 7.87 x 15.75 x 5.12	Clear	QR Latch	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	—	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303013PCIQRR	300 x 300 x 130 11.81 x 11.81 x 5.12	Opaque	QR Latch	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	—	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303013PCIQRCCR	300 x 300 x 130 11.81 x 11.81 x 5.12	Clear	QR Latch	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	—	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403013PCIQRR	300 x 400 x 130 11.81 x 15.75 x 5.12	Opaque	QR Latch	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	—	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403013PCIQRCCR	300 x 400 x 130 11.81 x 15.75 x 5.12	Clear	QR Latch	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	—	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81

Catalog Number	AxBxC mm/in.	Cover Style	Cover Type	External Dim's L x W mm/in.	Panel	Panel Size D x E mm/in.	Extension Ring	Mounting G x H mm/in.	F mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	T mm/in.	U mm/in.	Y mm/in.	Z mm/in.
Q603013PCIQRR	300 x 600 x 130 11.81 x 23.62 x 5.12	Opaque	QR Latch	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	—	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q603013PCIQRCCR	300 x 600 x 130 11.81 x 23.62 x 5.12	Clear	QR Latch	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	—	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q604013PCIQRR	400 x 600 x 130 15.75 x 23.62 x 5.12	Opaque	QR Latch	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	—	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q604013PCIQRCCR	400 x 600 x 130 15.75 x 23.62 x 5.12	Clear	QR Latch	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	—	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q202018PCIQRR	200 x 200 x 180 7.87 x 7.87 x 7.09	Opaque	QR Latch	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	—	180 x 180 7.09 x 7.09	115 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202018PCIQRCCR	200 x 200 x 180 7.87 x 7.87 x 7.09	Clear	QR Latch	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	—	180 x 180 7.09 x 7.09	165 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q302018PCIQRR	200 x 300 x 180 7.87 x 11.81 x 7.09	Opaque	QR Latch	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	—	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q302018PCIQRCCR	200 x 300 x 180 7.87 x 11.81 x 7.09	Clear	QR Latch	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	—	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q402018PCIQRR	200 x 400 x 180 7.87 x 15.75 x 7.09	Opaque	QR Latch	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	—	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402018PCIQRCCR	200 x 400 x 180 7.87 x 15.75 x 7.09	Clear	QR Latch	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	—	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303018PCIQRR	300 x 300 x 180 11.81 x 11.81 x 7.09	Opaque	QR Latch	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	—	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303018PCIQRCCR	300 x 300 x 180 11.81 x 11.81 x 7.09	Clear	QR Latch	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	—	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403018PCIQRR	300 x 400 x 180 11.81 x 15.75 x 7.09	Opaque	QR Latch	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	—	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403018PCIQRCCR	300 x 400 x 180 11.81 x 15.75 x 7.09	Clear	QR Latch	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	—	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q603018PCIQRR	300 x 600 x 180 11.81 x 23.62 x 7.09	Opaque	QR Latch	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	—	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.25	220 8.66	510 20.08	200 7.87	500 19.69
Q603018PCIQRCCR	300 x 600 x 180 11.81 x 23.62 x 7.09	Clear	QR Latch	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	—	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q604018PCIQRR	400 x 600 x 180 15.75 x 23.62 x 7.09	Opaque	QR Latch	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	—	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.28	320 12.60	510 20.08	300 11.81	500 19.69
Q604018PCIQRCCR	400 x 600 x 180 15.75 x 23.62 x 7.09	Clear	QR Latch	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	—	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69

A x B x C are internal dimensions.

Purchase panels and extension rings separately.

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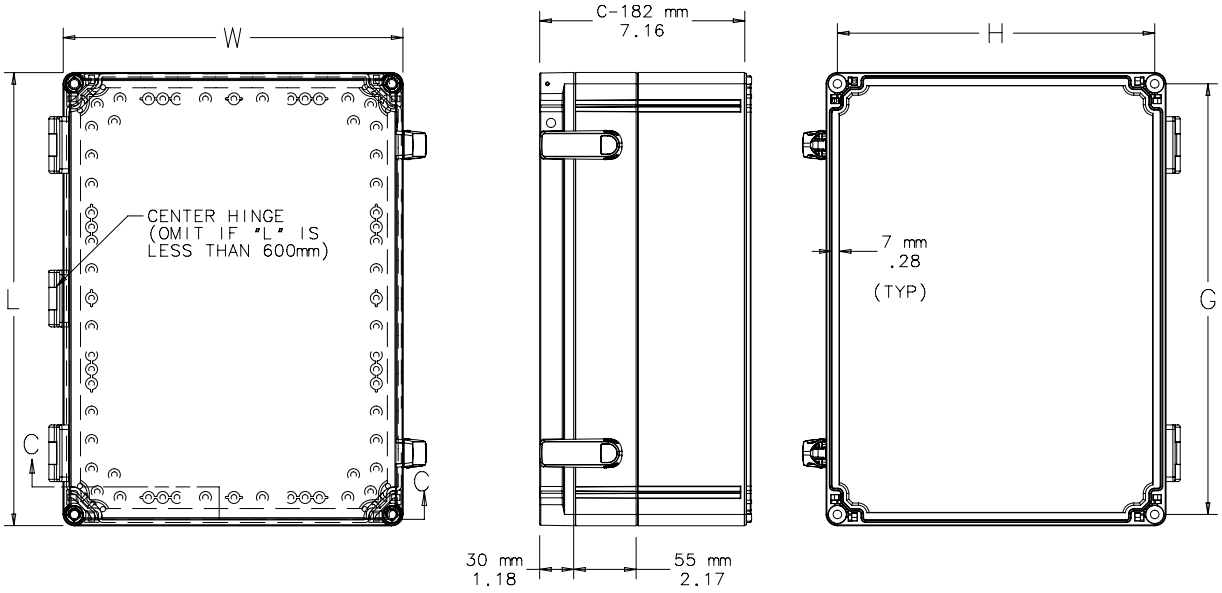
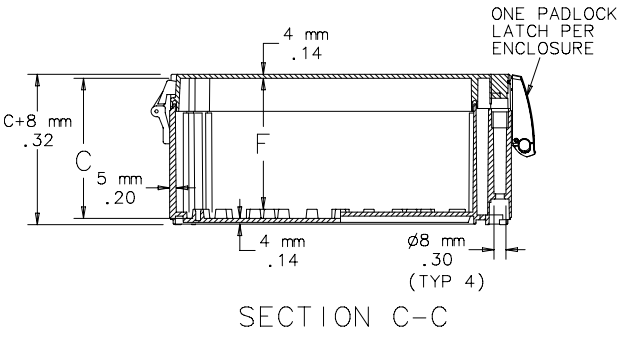
Standard Product **ABS, Screw Cover**

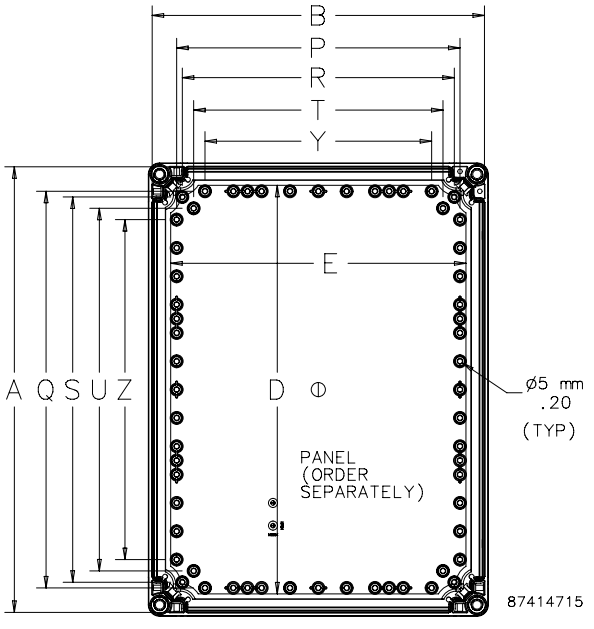
Catalog Number	AxBxC mm/in.	Cover Style	External Dim's L x W mm/in.	Panel	Panel Size D x E mm/in.	Extension Ring	Mounting G x H mm/in.	F mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	T mm/in.	U mm/in.	Y mm/in.	Z mm/in.
Q202013ABI	188 x 188 x 123 7.40 x 7.40 x 4.84	Opaque	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202013ABICC	200 x 200 x 130 7.87 x 7.87 x 5.12	Clear	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	115 4.53	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q302013ABI	300 x 200 x 123 11.81 x 7.87 x 4.84	Opaque	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q302013ABICC	200 x 300 x 130 7.87 x 11.81 x 5.12	Clear	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	115 4.53	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	210 8.27	100 3.94	200 7.87
Q402013ABI	388 x 188 x 123 15.28 x 7.40 x 4.84	Opaque	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402013ABICC	200 x 400 x 130 7.87 x 15.75 x 5.12	Clear	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	115 4.53	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303013ABI	288 x 288 x 123 11.34 x 11.34 x 4.84	Opaque	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303013ABICC	300 x 300 x 130 11.81 x 11.81 x 5.12	Clear	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	115 4.53	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403013ABI	388 x 288 x 123 15.28 x 11.34 x 4.84	Opaque	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	240 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403013ABICC	300 x 400 x 130 11.81 x 15.75 x 5.12	Clear	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	115 4.53	250 9.84	350 13.78	240 9.45	240 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q603013ABI	300 x 600 x 130 11.81 x 23.62 x 5.12	Opaque	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	300 11.81
Q603013ABICC	300 x 600 x 130 11.81 x 23.62 x 5.12	Clear	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	115 4.53	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	300 11.81
Q604013ABI	400 x 600 x 130 15.75 x 23.62 x 5.12	Opaque	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q604013ABICC	400 x 600 x 130 15.75 x 23.62 x 5.12	Clear	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	115 4.53	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q202018ABI	188 x 188 x 173 7.40 x 7.40 x 6.81	Opaque	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	165 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q202018ABICC	200 x 200 x 180 7.87 x 7.87 x 7.09	Clear	200 x 200 7.87 x 7.87	Q2020PI	160 x 160 6.30 x 6.30	Q2020EXTI	180 x 180 7.09 x 7.09	165 6.50	150 5.91	150 5.91	140 5.51	140 5.51	120 4.72	110 4.33	100 3.94	100 3.94
Q302018ABI	288 x 188 x 173 11.34 x 7.40 x 6.81	Opaque	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q302018ABICC	200 x 300 x 180 7.87 x 11.81 x 7.09	Clear	300 x 200 11.81 x 7.87	Q3020PI	260 x 160 10.24 x 6.30	Q3020EXTI	280 x 180 11.02 x 7.09	165 6.50	150 5.91	250 9.84	140 5.51	240 9.45	120 4.72	110 4.33	100 3.94	200 7.87
Q402018ABI	388 x 188 x 173 15.28 x 7.40 x 6.81	Opaque	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q402018ABICC	200 x 400 x 180 7.87 x 15.75 x 7.09	Clear	400 x 200 15.75 x 7.87	Q4020PI	360 x 160 14.17 x 6.30	Q4020EXTI	380 x 180 14.96 x 7.09	165 6.50	150 5.91	350 13.78	140 5.51	340 13.39	120 4.72	310 12.20	100 3.94	300 11.81
Q303018ABI	288 x 288 x 173 11.34 x 11.34 x 6.81	Opaque	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q303018ABICC	300 x 300 x 180 11.81 x 11.81 x 7.09	Clear	300 x 300 11.81 x 11.81	Q3030PI	260 x 260 10.24 x 10.24	Q3030EXTI	280 x 280 11.02 x 11.02	165 6.50	250 9.84	250 9.84	240 9.45	240 9.45	220 8.66	210 8.27	200 7.87	200 7.87
Q403018ABI	388 x 288 x 173 15.28 x 11.34 x 6.81	Opaque	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q403018ABICC	300 x 400 x 180 11.81 x 15.75 x 7.09	Clear	400 x 300 15.75 x 11.81	Q4030PI	360 x 260 14.17 x 10.24	Q4030EXTI	380 x 280 14.96 x 11.02	165 6.50	250 9.84	350 13.78	240 9.45	340 13.39	220 8.66	310 12.20	200 7.87	300 11.81
Q603018ABI	300 x 600 x 180 11.81 x 23.62 x 7.09	Opaque	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q603018ABICC	300 x 600 x 180 11.81 x 23.62 x 7.09	Clear	600 x 300 23.62 x 11.81	Q6030PI	560 x 260 22.05 x 10.24	Q6030EXTI	580 x 280 22.83 x 11.02	165 6.50	250 9.84	550 21.65	240 9.45	540 21.26	220 8.66	510 20.08	200 7.87	500 19.69
Q604018ABI	400 x 600 x 180 15.75 x 23.62 x 7.09	Opaque	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69
Q604018ABICC	400 x 600 x 180 15.75 x 23.62 x 7.09	Clear	600 x 400 23.62 x 15.75	Q6040PI	560 x 360 22.05 x 14.17	Q6040EXTI	580 x 380 22.83 x 14.96	165 6.50	350 13.78	550 21.65	340 13.39	540 21.26	320 12.60	510 20.08	300 11.81	500 19.69

QLINE I Polycarbonate and ABS Type 4X Enclosures with Quick-Release Latches Dimension Drawing



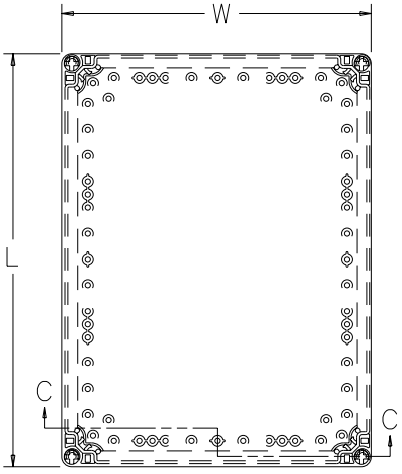


SECTION C–C

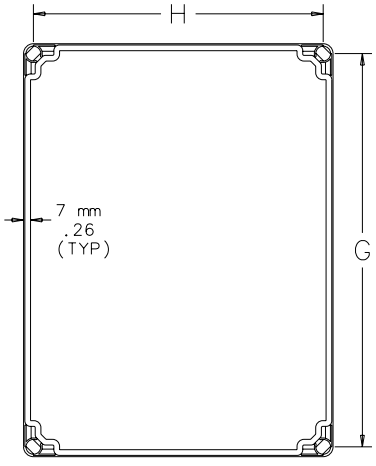


TOP VIEW WITH
COVER REMOVED

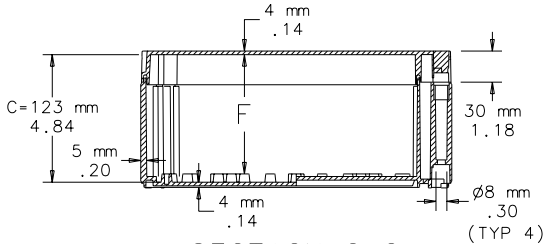
QLINE I Polycarbonate and ABS Screw Cover Dimension Drawing



TOP VIEW

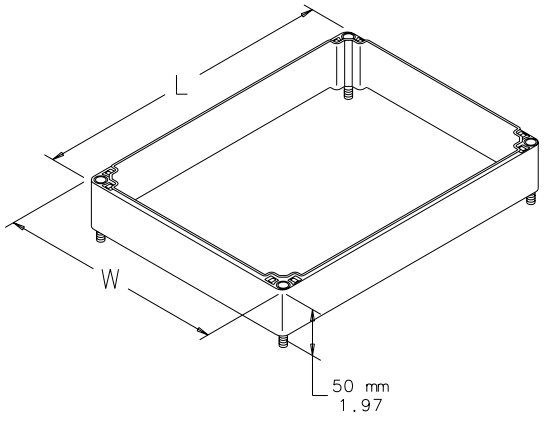


BOTTOM VIEW

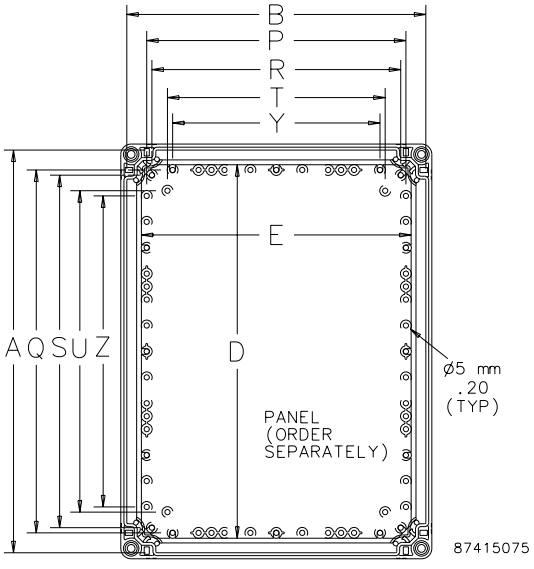


SECTION C–C

NOTE: Panel screws are M5 pan head.



OPTIONAL EXTENSION RING



TOP VIEW WITH COVER REMOVED

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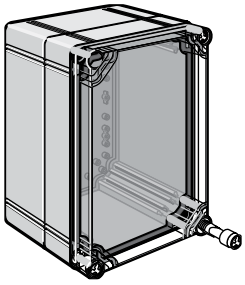
COVER SCREW KIT

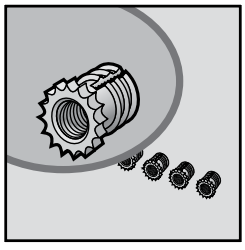


Screws are polyamide. Wing-head-style screws provide rapid access to enclosure interior without requiring special tools to open. Kit includes four polyamide cover screws and four self-tapping, plated panel screws. Tamper-resistant screws have molded 3-mm double-bit drive; kit includes four cover screws, one key and four self-tapping, plated panel screws. Use on all QLINE I enclosures.

BULLETIN: Q41Y

Catalog Number	Description
QIWHSK	Wing-head screw
QITSK	3-mm tamper-resistant double-bit

BRASS INSERT KIT

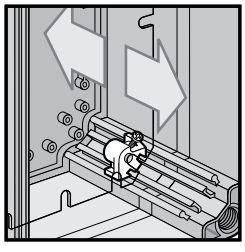


Four M5 self-tapping brass inserts screw into molded pads in bottom of enclosure. Inserts have M3 internal thread.

BULLETIN: Q41Y

Catalog Number
QBIK

PANEL DEPTH FITTING



Panel Depth Fitting attaches to corner molded rails of enclosure to facilitate full-range front-to-back panel adjustment. Package includes four polyamide fittings and plated screws. Use on all QLINE I enclosures.

BULLETIN: Q41Y

Catalog Number
QIPDF

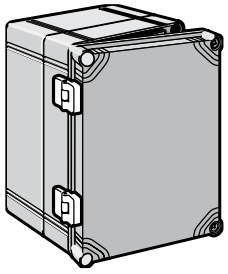
SWING PANEL

Adjustable-depth aluminum swing panels, for use in QLINE I polycarbonate enclosures, provide a convenient way to install controls and instruments near enclosure body opening while providing access and security. Suitable applications include water, pulp and paper, petroleum and chemical processing, food, packaging and pharmaceutical applications.

BULLETIN: Q41Y

Catalog Number	Panel Size D x E mm/in.	Fits Enclosure Size A x B mm/in.	Hinged Side of Enclosure
QIHFP22A	186 x 180 7.32 x 7.09	200 x 200 7.87 x 7.87	200
QIHFP23A	186 x 280 7.32 x 11.02	300 x 200 11.81 x 7.87	200
QIHFP32A	286 x 180 11.26 x 7.09	300 x 200 11.81 x 7.87	300
QIHFP42A	386 x 180 15.20 x 7.09	400 x 200 15.75 x 7.87	400
QIHFP33A	286 x 280 11.26 x 11.02	300 x 300 11.81 x 11.81	300
QIHFP43A	386 x 280 15.20 x 11.02	400 x 300 15.75 x 11.81	400
QIHFP63A	586 x 280 23.07 x 11.02	600 x 300 23.62 x 11.81	600
QIHFP64A	586 x 380 23.07 x 14.96	600 x 400 23.62 x 15.75	600

HINGE KIT

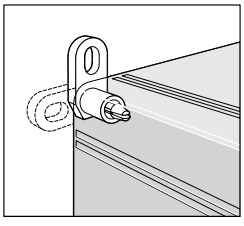


Hinge Kit includes two polyamide hinges, eight M4 self-tapping plated screws, eight flat washers and drilling template. Use on all QLINE I enclosures.
Hinge Kit meets Type 4 requirements. Three hinges required for 600-mm sides.

BULLETIN: Q41Y

Catalog Number
QIHK

MOUNTING BRACKET KIT

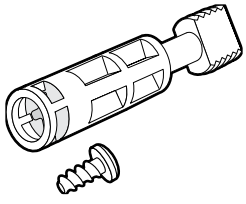


Mounting Bracket Kit has four polycarbonate brackets and four M3 self-tapping, plated screws. Kit is field-installable. Use on all QLINE I Enclosures. Maintains listed ratings for enclosure.

BULLETIN: Q41Y

Catalog Number
QIMFK

HARDWARE KIT

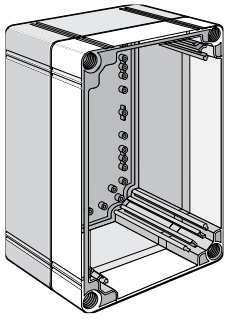


Hardware Kit includes four polyamide cover screws and four self-tapping, plated panel screws. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

BULLETIN: Q41Y

Catalog Number	Description
QIHK424	42-mm screws

EXTENSION RINGS

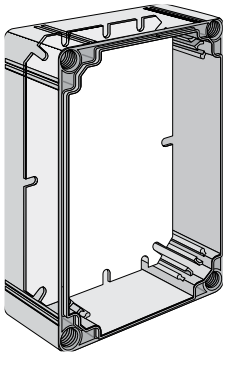


Extension rings can be added to QLINE I enclosures to provide additional 50 mm (1.97) to enclosure depth. Extension rings are polycarbonate and cannot be used with quick-release latches.

BULLETIN: Q41Y

Catalog Number	Use with Enclosure Catalog Number Beginning With
Q2020EXTI	Q2020
Q3020EXTI	Q3020
Q3030EXTI	Q3030
Q4020EXTI	Q4020
Q4030EXTI	Q4030
Q6030EXTI	Q6030
Q6040EXTI	Q6040

PANELS



BULLETIN: Q41Y

Catalog Number	Panel Size D x E (mm)	Panel Size D x E (in.)
Q2020PI	160 x 160	6.30 x 6.30
Q3020PI	260 x 160	10.24 x 6.30
Q3030PI	260 x 260	10.24 x 10.24
Q4020PI	360 x 160	14.17 x 6.30
Q4030PI	360 x 260	14.17 x 10.24
Q6030PI	560 x 260	22.05 x 10.24
Q6040PI	560 X 360	22.05 x 14.17

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QLINE I, EMC, TYPE 4X

APPLICATION

The largest-size enclosures in the QLINE EMC series, the screw-cover QLINE I protects larger controls from electromagnetic interference in corrosive environments.

SPECIFICATIONS

- Body is impact-resistant polycarbonate
- Polycarbonate material is easily punched, drilled, filed or sawed
- EMC coating in base and cover
- Gasket of silver/silicone
- Mounting holes molded directly under cover screws
- Molded internal pads for mounting optional panels, rails and other components
- Molded internal rails for mounting adjustable depth panel kit
- Screws provided for mounting optional panel
- Easily removable covers attached to body with strong, durable polyamide cross-point cover screws

FINISH

Enclosure material is RAL 7035 light-gray outside. Optional panels are conductive steel.

BULLETIN: Q41EM

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

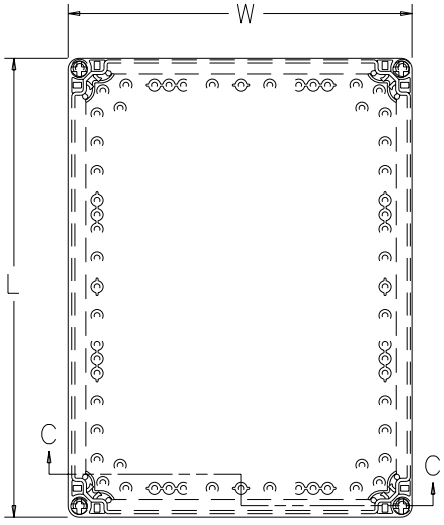
NEMA/EEMAC Type 4, 4X, 12, 13
IEC 60529, IP66

Standard Product

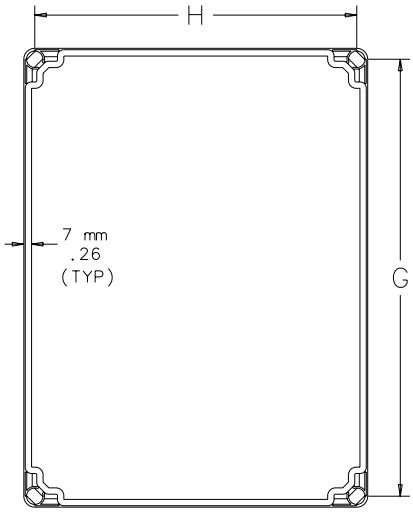
Catalog Number	AxBxC mm/in.	External Dimensions L x W mm/in.	Internal Dimensions A x B x C mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	T mm/in.	U mm/in.	Y mm/in.	Z mm/in.
Q202013PCEMC	200 x 200 x 123	200 x 200	188 x 188	Q2020PI	160 x 160	180 x 180	115	150	150	140	140	120	110	100	100
	7.87 x 7.87 x 4.84	7.87 x 7.87	7.40 x 7.40		6.30 x 6.30	7.09 x 7.09	4.53	5.91	5.91	5.51	5.51	4.72	4.33	3.94	3.94
Q302013PCEMC	300 x 200 x 123	300 x 200	288 x 188	Q3020PI	260 x 160	280 x 180	115	150	250	140	240	120	210	100	200
	11.81 x 7.87 x 4.84	11.81 x 7.87	11.34 x 7.40		10.24 x 6.30	11.02 x 7.09	4.53	5.91	9.84	5.51	9.45	4.72	8.27	3.94	7.87
Q402013PCEMC	400 x 200 x 123	400 x 200	388 x 188	Q4020PI	360 x 160	380 x 180	115	150	350	140	340	120	310	100	300
	15.75 x 7.87 x 4.84	15.75 x 7.87	15.28 x 7.40		14.17 x 6.30	14.96 x 7.09	4.53	5.91	13.78	5.51	13.39	4.72	12.20	3.94	11.81

Purchase panels separately.

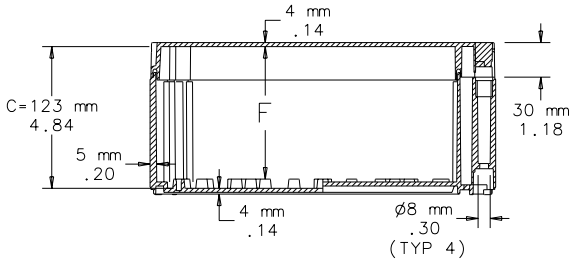
QLINE I Polycarbonate EMC Enclosures Dimension Drawing



TOP VIEW

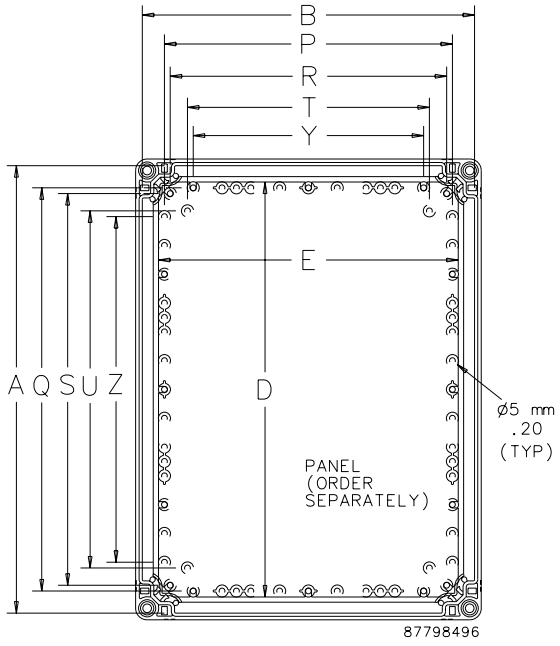


BOTTOM VIEW



SECTION C–C

Note: Panel screws are M5 pan head.



TOP VIEW WITH COVER REMOVED

CHAPTER 4
ALUMINUM

CLAMP-COVER, TYPE 4X

This lightweight enclosure protects components and controls in corrosive indoor or outdoor environments.

CONTINUOUS HINGE WITH CLAMPS, TYPE 12

Lightweight enclosures protect components and controls in indoor applications.

COMPACT, TYPE 4X

For use in indoor or outdoor applications, these stylized enclosures protect components and controls in corrosive environments.

CHAPTER CONTENTS

ALUMINUM WALL-MOUNT ENCLOSURES

CLAMP COVER

Continuous Hinge with Clamps, Type 12 322
Clamp-Cover, Type 4X 324
Continuous Hinge with Clamps, Type 4X 326

COMPACT CAST ALUMINUM TYPE 4X ENCLOSURES AND ACCESSORIES

COMPACT, TYPE 4X

COMPACT, Type 4X 328
Hinge Kit 330
Mounting Bracket Kits 330
Panels 330
DIN Type Rails 330
Aluminum Type 4X Accessory Selection Matrix 331

CONTINUOUS HINGE WITH CLAMPS, TYPE 4X

Lightweight enclosure protects components and controls in highly-corrosive indoor or outdoor environments such as petrochemical processing plants, sewage treatment plants and marine environments.

CONTINUOUS HINGE WITH CLAMPS, TYPE 12

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 12, 13; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 12, 13; File No. E27567

NEMA/EEMAC Type 12, 13
CSA File No. 42184: Type 12
IEC 60529, IP65
Meets NEMA Type 3RX requirements

APPLICATION

Lightweight enclosures protect components and controls in indoor applications.

SPECIFICATIONS

- Type 5052 H-32 aluminum .080-in. (2-mm) thick
- Seams continuously welded and ground smooth
- Stainless steel screws and clamps secure cover
- Cover removed by pulling stainless steel continuous hinge pin
- Oil-resistant gasket
- Weldnuts furnished for mounting optional panels and terminal block kits

FINISH

Enclosures are unpainted. Cover and sides of body have smooth brushed finish.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Lock Kit for Clamp Cover Junction Boxes, page 1366
Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332

MODIFICATION AND CUSTOMIZATION

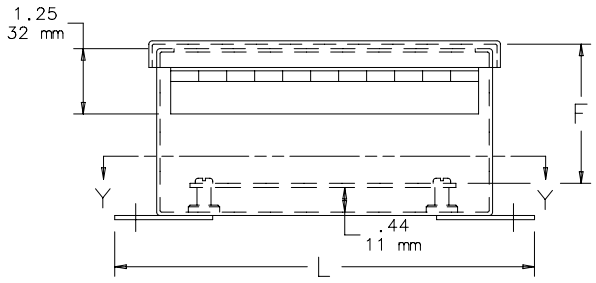
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

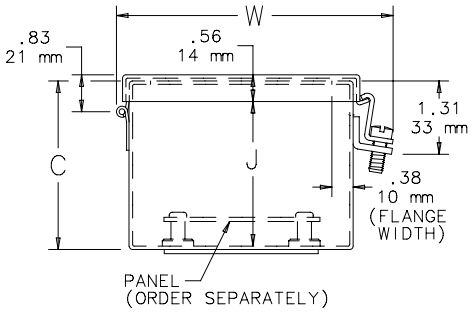
BULLETIN: A51A

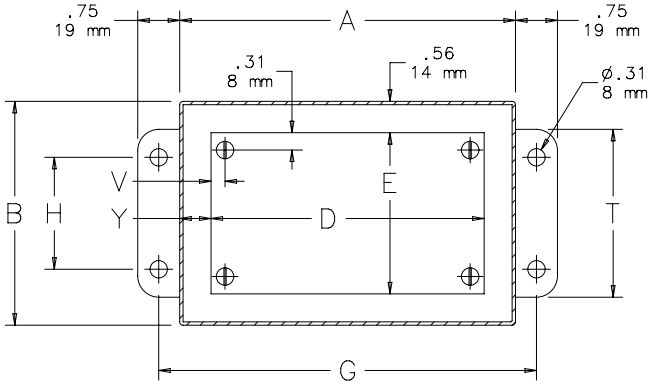
Standard Product

Catalog Number	AxBxC in./mm	Aluminum Panel	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	P in./mm	T in./mm	V in./mm	Y in./mm
A606CHAL	6.00 x 6.00 x 4.00 152 x 152 x 102	A6P6AL	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 6.94 191 x 176	3.50 89	3.56 90	2.38 60	5.00 127	0.31 8	0.56 14
A8064CHAL	8.00 x 6.00 x 4.00 203 x 152 x 102	A8P6AL	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 6.94 241 x 176	3.50 89	3.56 90	3.38 86	5.00 127	0.25 6	0.62 16
A1008CHAL	10.00 x 8.00 x 4.00 254 x 203 x 102	A10P8AL	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 8.94 292 x 227	3.50 89	3.56 90	1.50 38	7.00 178	0.25 6	0.62 16
A12106CHAL	12.00 x 10.00 x 6.00 305 x 254 x 152	A12P10AL	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 10.94 343 x 278	5.50 140	5.56 141	2.00 51	9.00 229	0.25 6	0.62 16
A1412CHAL	14.00 x 12.00 x 6.00 356 x 305 x 152	A14P12AL	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 12.94 394 x 329	5.50 140	5.56 141	3.00 76	11.00 279	0.25 6	0.62 16
A1614CHAL	16.00 x 14.00 x 6.00 406 x 356 x 152	A16P14AL	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 14.94 445 x 379	5.50 140	5.56 141	1.50 38	13.00 330	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, composite and aluminum panels are also available for most sizes.

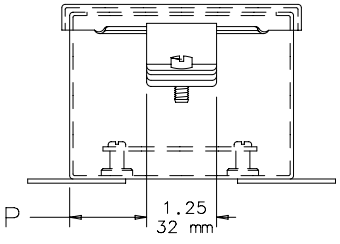




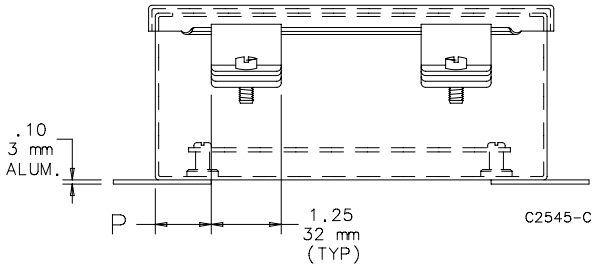


SECTION Y–Y

NOTES:
1. Aluminum panels are .080 in. (2mm) thick.
2. Steel panels are 14 gauge.
3. Stainless steel panel screws are #10-32 pan head.



View showing clamp end of box when one clamp is used.



View showing clamp end of box when two clamps are used. When A > 8.00 (203 mm), use two clamps.

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CLAMP-COVER, TYPE 4X

APPLICATION

This lightweight enclosure protects components and controls in corrosive indoor or outdoor environments.

SPECIFICATIONS

- Type 5052 H-32 aluminum, 0.080-in. (2-mm) thick
- Seams continuously welded and ground smooth
- Stainless steel screws and clamps on four sides of cover
- Oil-resistant gasket
- Weldnuts provided for mounting optional panels

FINISH

Enclosures are unpainted. Cover and sides of body have smooth brushed finish. Optional aluminum panels are unpainted. Optional steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Fast-Operating Clamp-Cover Junction Box Clamp, page 1371
Panels for Junction Boxes, page 1330
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A51A

INDUSTRY STANDARDS

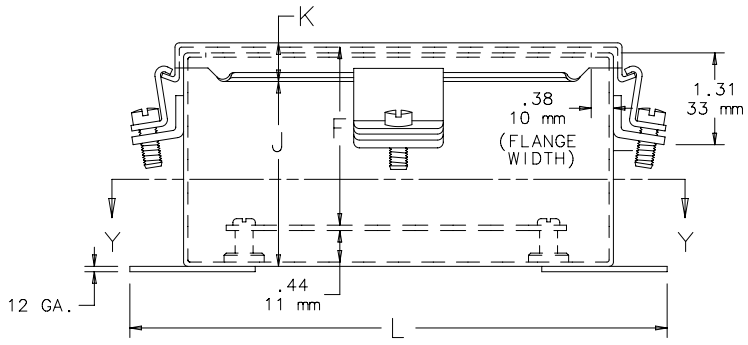
UL 50, 50E Listed; Type 3R, 4, 4X, 12; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E27525
UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

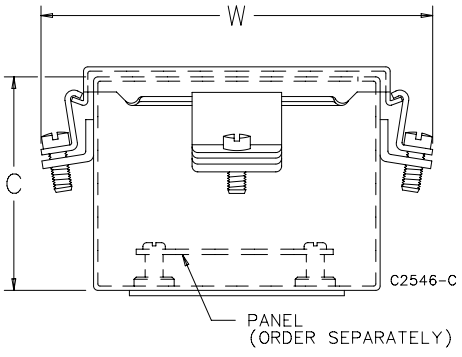
NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42184: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

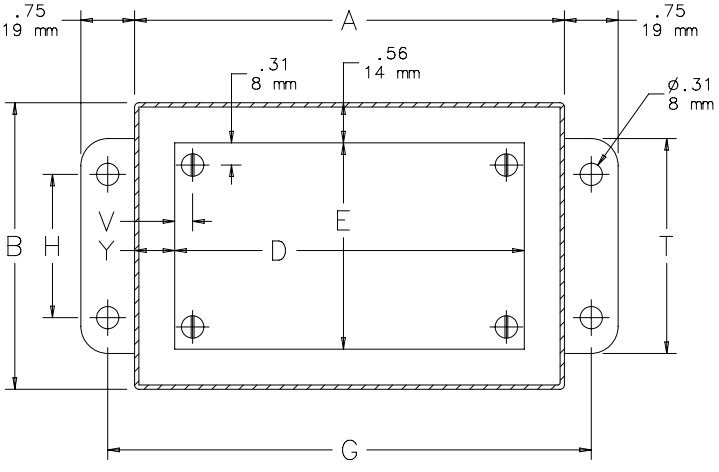
Standard Product

Catalog Number	AxBxC in./mm	UL Listed	Aluminum Panel	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Overall L x W in./mm	F in./mm	J in./mm	M in./mm	N in./mm	T in./mm	V in./mm	Y in./mm
A604NFAL	6.00 x 4.00 x 3.00 152 x 102 x 76	508A	A6P4AL	A6P4	A6P4G	4.88 x 2.88 124 x 73	6.75 x 2.00 171 x 51	7.50 x 5.38 191 x 137	2.50 64	2.50 64	1.38 35	2.38 60	3.00 76	0.31 8	0.56 14
A606NFAL	6.00 x 6.00 x 4.00 152 x 152 x 102	50, 50E	A6P6AL	A6P6	A6P6G	4.88 x 4.88 124 x 124	6.75 x 4.00 171 x 102	7.50 x 7.38 191 x 187	3.50 89	3.50 89	2.38 60	2.38 60	5.00 127	0.31 8	0.56 14
A806NFAL	8.00 x 6.00 x 3.50 203 x 152 x 89	50, 50E	A8P6AL	A8P6	A8P6G	6.75 x 4.88 171 x 124	8.75 x 4.00 222 x 102	9.50 x 7.38 241 x 187	3.00 76	3.00 76	2.38 60	3.38 86	5.00 127	0.25 6	0.62 16
A1008NFAL	10.00 x 8.00 x 4.00 254 x 203 x 102	50, 50E	A10P8AL	A10P8	A10P8G	8.75 x 6.88 222 x 175	10.75 x 6.00 273 x 152	11.50 x 9.38 292 x 238	3.50 89	3.50 89	3.38 86	1.00 25	7.00 178	0.25 6	0.62 16
A1210NFAL	12.00 x 10.00 x 5.00 305 x 254 x 127	50, 50E	A12P10AL	A12P10	A12P10G	10.75 x 8.88 273 x 225	12.75 x 8.00 324 x 203	13.50 x 11.38 343 x 289	4.50 114	4.50 114	2.00 51	1.50 38	9.00 229	0.25 6	0.62 16
A1412NFAL	14.00 x 12.00 x 6.00 356 x 305 x 152	50, 50E	A14P12AL	A14P12	A14P12G	12.75 x 10.88 324 x 276	14.75 x 10.00 375 x 254	15.50 x 13.38 394 x 340	5.50 140	5.50 140	2.00 51	3.00 76	11.00 279	0.25 6	0.62 16
A1614NFAL	16.00 x 14.00 x 6.00 406 x 356 x 152	50, 50E	A16P14AL	A16P14	A16P14G	14.75 x 12.88 375 x 327	16.75 x 12.00 425 x 305	17.50 x 15.38 445 x 391	5.50 140	5.50 140	3.00 76	1.50 38	13.00 330	0.25 6	0.62 16

Purchase panels separately. Optional stainless steel, composite and aluminum panels are available for most sizes.



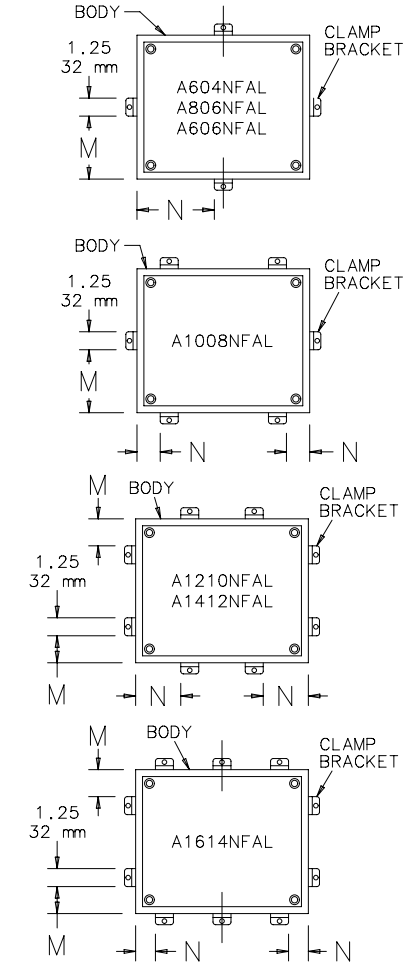




SECTION Y–Y

NOTES: 1. Aluminum panels are .080 (2mm) thick.
2. Steel panels are 14 gauge.
3. Stainless steel panel screws are #10-32 pan head.

CLAMP BRACKET LOCATIONS



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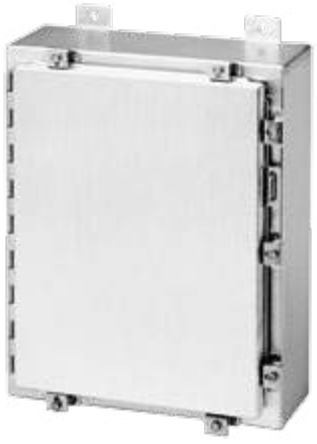
CONTINUOUS HINGE WITH CLAMPS, TYPE 4X



INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Lightweight enclosure protects components and controls in corrosive indoor or outdoor environments such as traffic, outside plant, telecommunications and marine environments.

SPECIFICATIONS

- Type 5052 H-32 aluminum
- Seams continuously welded and ground smooth
- Rolled lip around three sides of door and all sides of enclosure opening
- Stainless steel door clamp assemblies
- Door is easily removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Hasp and staple for padlocking
- Panel screws are plated
- Tapped pads provided for mounting optional panels
- Oil-resistant gasket

FINISH

Enclosures are unpainted. Door fronts have smooth brushed finish.

ACCESSORIES

Fast-Operating Clamp Assembly, page 1371
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Rack Mounting Angle Kit - L Style, page 1418
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

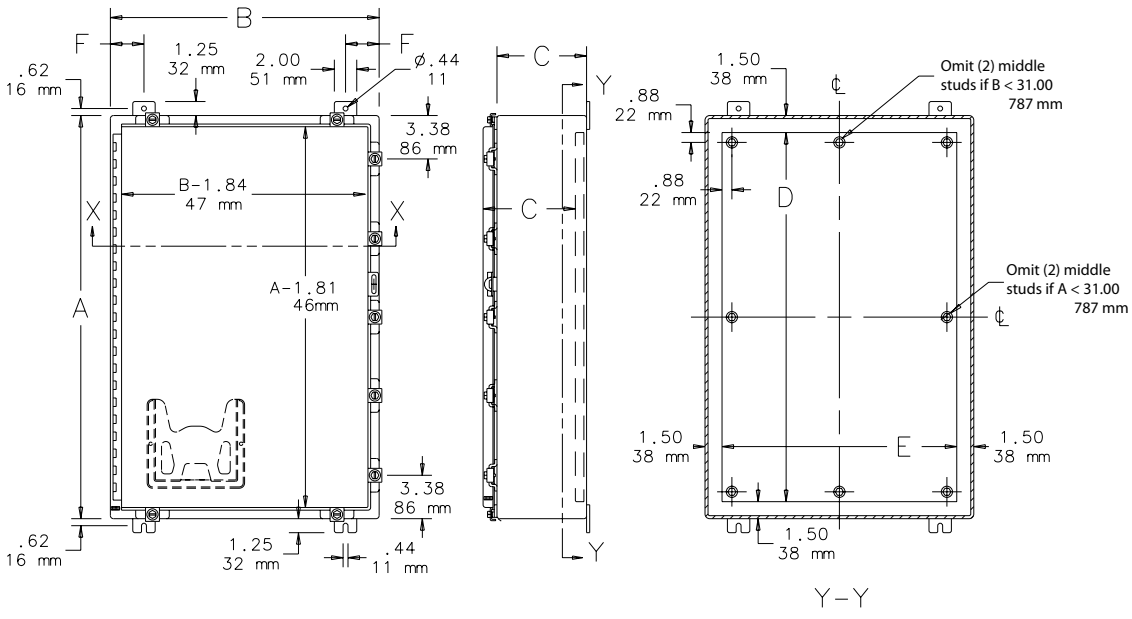
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4A

Standard Product

Catalog Number	AxBxC in./mm	Aluminum Panel	Steel Panel	Conductive Panel	Panel Size D x E in./mm	Number of Panel Mounting Studs	F in./mm	Number of Clamps	Data Pocket Size in./mm
A16H1206ALLP	16.00 x 12.00 x 6.00 406 x 305 x 152	A16P12AL	A16P12	A16P12G	13.00 x 9.00 330 x 229	4	1.25 32	4	6.00 x 6.00 152 x 152
A20H1606ALLP	20.00 x 16.00 x 6.00 508 x 406 x 152	A20P16AL	A20P16	A20P16G	17.00 x 13.00 432 x 330	4	3.00 76	4	6.00 x 6.00 152 x 152
A20H2006ALLP	20.00 x 20.00 x 6.00 508 x 508 x 152	A20P20AL	A20P20	A20P20G	17.00 x 17.00 432 x 432	4	3.00 76	4	6.00 x 6.00 152 x 152
A24H2006ALLP	24.00 x 20.00 x 6.00 610 x 508 x 152	A24P20AL	A24P20	A24P20G	21.00 x 17.00 533 x 432	4	3.00 76	5	6.00 x 6.00 152 x 152
A16H1608ALLP	16.00 x 16.00 x 8.00 406 x 406 x 203	A16P16AL	A16P16	A16P16G	13.00 x 13.00 330 x 330	4	3.00 76	4	6.00 x 6.00 152 x 152
A24H2408ALLP	24.00 x 24.00 x 8.00 610 x 610 x 203	A24P24AL	A24P24	A24P24G	21.00 x 21.00 533 x 533	4	3.00 76	5	6.00 x 6.00 152 x 152
A30H2408ALLP	30.00 x 24.00 x 8.00 762 x 610 x 203	A30P24AL	A30P24	A30P24G	27.00 x 21.00 686 x 533	6	3.00 76	5	12.00 x 12.00 305 x 305
A36H2408ALLP	36.00 x 24.00 x 8.00 914 x 610 x 203	A36P24AL	A36P24	A36P24G	33.00 x 21.00 838 x 533	6	3.00 76	5	12.00 x 12.00 305 x 305
A36H3008ALLP	36.00 x 30.00 x 8.00 914 x 762 x 203	A36P30AL	A36P30	A36P30G	33.00 x 27.00 838 x 686	6	3.00 76	7	12.00 x 12.00 305 x 305
A48H3608ALLP	48.00 x 36.00 x 8.00 1219 x 914 x 203	A48P36AL	A48P36	A48P36G	45.00 x 33.00 1143 x 838	8	3.00 76	8	12.00 x 12.00 305 x 305
A20H1610ALLP	20.00 x 16.00 x 10.00 508 x 406 x 254	A20P16AL	A20P16	A20P16G	17.00 x 13.00 432 x 330	4	3.00 76	4	12.00 x 12.00 305 x 305
A24H2010ALLP	24.00 x 20.00 x 10.00 610 x 508 x 254	A24P20AL	A24P20	A24P20G	21.00 x 17.00 533 x 432	4	3.00 76	5	12.00 x 12.00 305 x 305
A30H2412ALLP	30.00 x 24.00 x 12.00 762 x 610 x 305	A30P24AL	A30P24	A30P24G	27.00 x 21.00 686 x 533	6	3.00 76	5	12.00 x 12.00 305 x 305
A36H3012ALLP	36.00 x 30.00 x 12.00 914 x 762 x 305	A36P30AL	A36P30	A36P30G	33.00 x 27.00 838 x 686	6	3.00 76	7	12.00 x 12.00 305 x 305
A60H3612ALLP	60.00 x 36.00 x 12.00 1524 x 914 x 305	A60P36AL	A60P36	A60P36G	57.00 x 33.00 1448 x 838	8	3.00 76	9	12.00 x 12.00 305 x 305

Purchase panels separately.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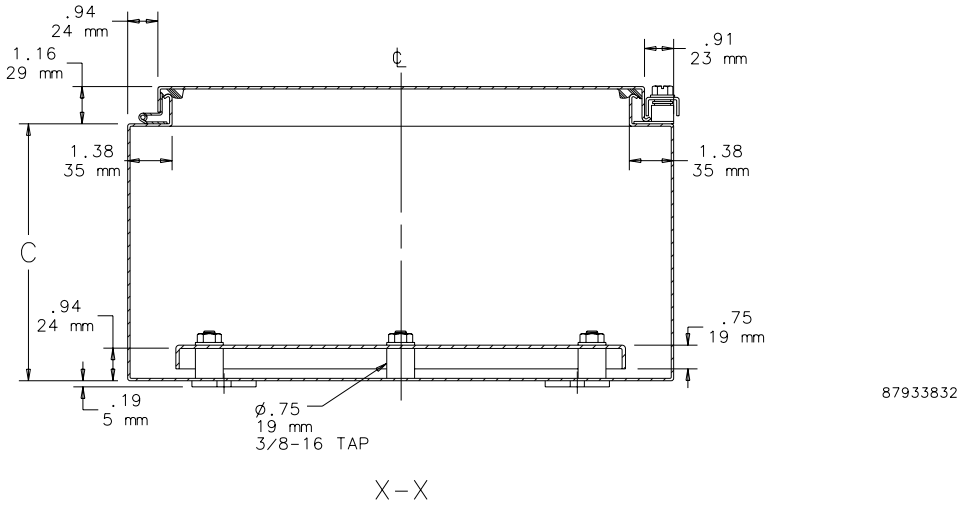
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COMPACT, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12, 13; File No. E61997

NEMA/EEMAC Type 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

For use in indoor or outdoor applications, these stylized enclosures protect components and controls in corrosive environments.

SPECIFICATIONS

- Cast aluminum; no welded seams or sharp corners
- Stainless steel captivated cover screws placed outside sealed area
- Two to four grounding screws located on enclosure back wall
- Oil-resistant, seamless foam-in-place gasket
- Tongue-and-groove sealing construction
- Threaded internal bosses provided for mounting optional panels, rails and other components
- Mounting holes provided in corners outside of gasketed area

FINISH

RAL 7042 textured gray finish, inside and out.
Custom colors available; contact Customer Service for additional options.

ACCESSORIES

Hinge Kit, page 330
Mounting Bracket Kits, page 330
Panels, page 330
DIN Type Rails, page 330

BULLETIN: CA1

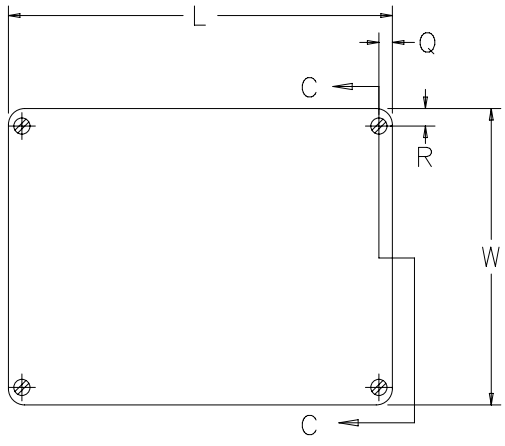
Standard Product

Catalog Number	AxBxC mm/in.	External Dimensions L x W mm/in.	Conductive Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	J mm/in.	K mm/in.	M mm/in.	N mm/in.	T mm/in.
CCA886	68 x 73 x 51 2.68 x 2.87 x 2.01	75 x 80 2.95 x 3.15	CCAP88	68 x 73 2.68 x 2.87	52 x 63 2.05 x 2.48	45 1.77	42 1.65	15 0.59	15 0.59	30 1.18	3.5 .14
CCA1286	118 x 73 x 51 4.65 x 2.87 x 2.01	125 x 80 4.92 x 3.15	CCAP128	116 x 71 4.57 x 2.79	52 x 113 2.05 x 4.45	45 1.77	42 1.65	15 0.59	15 0.59	30 1.18	3.5 .14
CCA1886	168 x 73 x 51 6.61 x 2.87 x 2.01	175 x 80 6.89 x 3.15	CCAP188	163 x 73 6.42 x 2.87	52 x 163 2.05 x 6.42	45 1.77	42 1.61	15 0.59	15 0.59	30 1.18	3.5 .14
CCA12128	114 x 114 x 72 4.49 x 4.49 x 2.83	122 x 122 4.80 x 4.80	CCAP1212	113 x 113 4.45 x 4.45	82 x 106 3.23 x 4.17	59 2.32	60 2.36	20 0.79	52 2.05	— —	4 0.16
CCA22128	212 x 112 x 72 4.49 x 4.41 x 2.83	220 x 122 8.66 x 4.80	CCAP2212	211 x 113 8.31 x 4.45	82 x 204 3.23 x 8.03	59 2.32	60 2.36	20 0.79	52 2.05	— —	4 0.16
CCA16169	152 x 152 x 82 5.98 x 5.98 x 3.23	160 x 160 6.30 x 6.30	CCAP1616	151 x 151 5.94 x 5.94	110 x 140 4.33 x 5.51	73 2.87	70 2.76	20 0.79	76 2.99	— —	4 0.16
CCA26169	252 x 152 x 82 9.92 x 5.98 x 3.23	260 x 160 10.23 x 6.30	CCAP2616	251 x 151 9.88 x 5.94	110 x 240 4.33 x 9.45	73 2.87	70 2.76	20 0.79	76 2.99	— —	4 0.16
CCA36169	352 x 152 x 82 13.86 x 5.98 x 3.23	360 x 160 14.17 x 6.30	CCAP3616	351 x 151 13.82 x 5.94	110 x 340 4.33 x 13.39	73 2.87	70 2.76	20 0.79	76 2.99	— —	4 0.16
CCA202311	192 x 222 x 102 7.56 x 8.74 x 4.02	200 x 230 7.87 x 9.06	CCAP2023	191 x 221 7.52 x 8.70	180 x 180 7.09 x 7.09	93 3.66	90 3.54	20 0.79	80 3.15	120 4.72	4 0.16
CCA332311	322 x 222 x 102 12.68 x 8.74 x 4.02	330 x 230 12.99 x 9.06	CCAP3323	321 x 221 12.64 x 8.70	180 x 310 7.09 x 12.21	93 3.66	90 3.54	20 0.79	80 3.15	120 4.72	4 0.16
CCA332318	322 x 222 x 172 12.68 x 8.74 x 6.77	330 x 230 12.99 x 9.06	CCAP3323	321 x 221 12.64 x 8.70	180 x 310 7.09 x 12.21	162 6.38	160 6.30	20 0.79	100 3.94	144 5.67	4 0.16

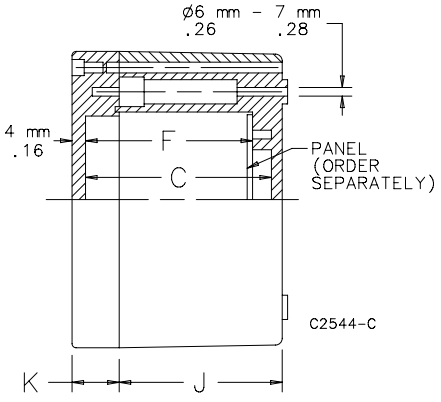
A x B x C are internal dimensions.

Purchase panels separately.

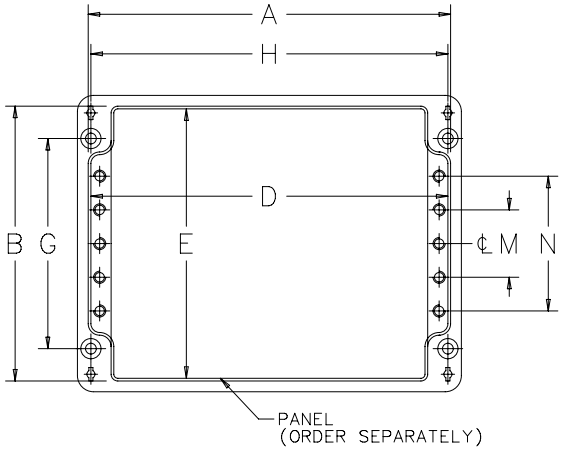
CCA886, CCA1286 and CCA1886 enclosures have only two mounting holes.

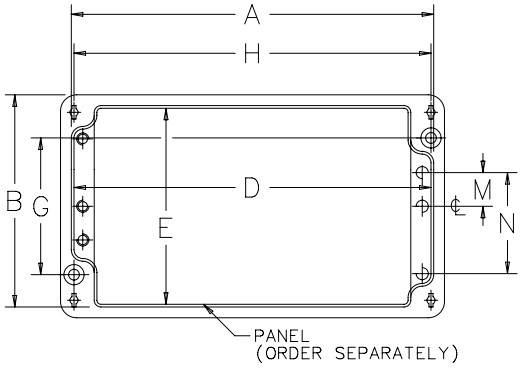


TOP VIEW



SECTION C–C





(CCA86, CCA1286, CCA1886 ONLY)

TOP VIEW WITH COVER REMOVED

HINGE KIT

Made of die-cast aluminum. Angle rotation approximately 170 degrees. Mounting template and stainless steel hardware included. Two hinges per kit.
Hinge kit not available for CCA886, CCA1286 or CCA1886.

BULLETIN: CC1

Catalog Number	Product Weight (lb.)
CCAHK	0.1

MOUNTING BRACKET KITS

Mounting brackets are made from 12-gauge steel alloy providing enhanced corrosion resistance. Two or four brackets per kit. Stainless steel mounting screws and installation instructions are included.

BULLETIN: CA1

Catalog Number	Description	Fits
CCAMF12	Two brackets	Enclosures CCA12128 and CCA22128
CCAMF16	Two brackets	Enclosures CCA16169 and CCA36169
CCAMF31	Four brackets	Enclosures CCA202311, CCA332311 and CCA332318

PANELS

Made of plated steel. Permits electro-mechanical components to be mounted inside the enclosure.

BULLETIN: CA1P

Catalog Number	Panel Size D x E (mm)	Panel Size D x E (in.)
CCAP88	64 x 69	2.52 x 2.72
CCAP128	114 x 69	4.49 x 2.72
CCAP188	164 x 69	6.46 x 2.72
CCAP1212	109 x 108	4.29 x 4.26
CCAP2212	204 x 108	8.04 x 4.26
CCAP1616	146 x 146	5.75 x 5.75
CCAP2616	246 x 146	9.69 x 5.75
CCAP3616	346 x 146	13.63 x 5.75
CCAP2023	185 x 215	7.29 x 8.47
CCAP3323	315 x 215	12.41 x 8.47
CCAP4031	387 x 294	15.25 x 11.58
CCAP6031	585 x 294	23.05 x 11.58

DIN TYPE RAILS

DIN Type Rails receive terminal blocks, relays, switches, filters, timers and various other electrical and electronic components. Lengths fit size of enclosure. All DIN rails made of plated steel.

BULLETIN: CA1

Catalog Number	Description	Fits
CCADR8S1	Plated DIN rail Type TS-15	A = 67mm
CCADR12S1	Plated DIN rail Type TS-15	A = 116mm
CCADR18S1	Plated DIN rail Type TS-15	A = 167mm
CCADR12S2	Plated DIN rail Type TS-35	A = 116mm
CCADR22S2	Plated DIN rail Type TS-35	A = 210mm
CCADR16S2	Plated DIN rail Type TS-35	A = 149mm
CCADR26S2	Plated DIN rail Type TS-35	A = 249mm
CCADR36S2	Plated DIN rail Type TS-35	A = 349mm
CCADR20S2	Plated DIN rail Type TS-35	A = 189mm
CCADR33S2	Plated DIN rail Type TS-35	A = 313mm

ALUMINUM TYPE 4X ACCESSORY SELECTION MATRIX

Accessory Catalog Number	CCA886	CCA1286	CCA1886	CCA12128	CCA22128	CCA16169	CCA26169	CCA36169	CCA202311	CCA332311	CCA332318
Hinge Kit											
CCAHK				•	•	•	•	•	•	•	•
Mounting Bracket Kit											
CCAMF12				•	•						
CCAMF16						•		•			
CCAMF31									•	•	•
Panels											
CCAP88	•										
CCAP128		•									
CCAP188			•								
CCAP1212				•							
CCAP2212					•						
CCAO1616						•					
CCAP2616							•				
CCAP3616								•			
CCAP2023									•		
CCAP3323										•	•
DIN Type Rails											
CCADR8S1	•										
CCADR12S1		•									
CCADR18S1			•								
CCADR12S2				•							
CCADR22S2					•						
CCADR16S2						•					
CCADR26S2							•				
CCADR36S2								•			
CCADR20S2									•		
CCADR33S2										•	•

CHAPTER 5
DISCONNECT

STAINLESS STEEL SEQUESTR EXTERNAL DISCONNECT PACKAGE, TYPE 4X

This package helps mitigate arc flash occurrences when working on interior components by isolating incoming power from the main enclosure. Manufactured from 304 stainless steel, it provides protection from non-corrosive or mildly corrosive elements in both indoor and outdoor environments. A package includes a main enclosure and a SEQUESTR box. SEQUESTR boxes can be ordered separately to retrofit existing enclosures. The disconnect switch and fuse block/circuit breaker are mounted in the external enclosures, with terminal connections to bring power to the main enclosure.

CONCEPT DISCONNECT ENCLOSURE, TYPE 4X

Use CONCEPT Disconnect Enclosures in applications that require stylized design features and a preferred cutout for the disconnect switch or circuit breaker. Accepts major brand disconnect switches and circuit breakers and is supplied with a Hoffman-integrated tool-to-open handle.

Furnished with Enclosures:

- Door interlock bracket welded to door
- Door latching system (2-point or 3-point) installed on door
- Instructions to locate and install disconnect
- Hardware kit consisting of padlocking door handle, panel mounting nuts, grounding hardware and sealing washers for mounting holes

FIBERGLASS DISCONNECT, TYPE 4X

For effective and economical disconnect protection in the harshest corrosive environments, these enclosures provide secure door closure through the use of Type 304 stainless steel slotted quarter-turn latches.

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WALL-MOUNT PREFERRED-CUTOUT DISCONNECTS

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CONCEPT WALL-MOUNT DISCONNECTS

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FIBERGLASS DISCONNECTS

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WALL-MOUNT FIXED-DEPTH ALLEN-BRADLEY DISCONNECTS

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FREE-STAND PREFERRED-CUTOUT DISCONNECTS

FREE-STAND PREFERRED-CUTOUT DISCONNECT OVERVIEW

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FREE-STAND DISCONNECTS AND ACCESSORIES

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PREFERRED-CUTOUT OVERVIEW

APPLICATION

Enclosures having the preferred cutout are sized for use with up to 200A disconnect switches and up to 400A circuit breakers unless otherwise specified. The preferred cutout accepts the smaller operating handle whose mounting hole centers are 4.688 in. apart. Preferred cutouts are standard in mild steel wall-mount enclosures, modular enclosures and some select large mild steel enclosures. They are also present on all standard stainless steel offerings. Mild steel operator adapter plates with brand specific preferred cutouts are available for enclosures with a rectangular universal cutout.

Preferred cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494U universal disconnect switches with flange-mount handles for either variable-depth, cable-operated mechanisms
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable-depth, flange-mount, molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange-mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

Allen-Bradley Bulletin 1494V-R1, -R2 and -W2 operating handles and Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators will NOT fit these enclosures.

ABB Controls flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

Eaton Cutler-Hammer Type C361 flange-mount variable-depth operating mechanisms with disconnect switches and Type C371 flange-mount variable-depth operating mechanisms for circuit breakers.

General Electric Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX cable operators for circuit breakers.

Siemens ITE MAX FLEX® flange-mount variable-depth operating handles for circuit breakers.

Schneider Square D® Class 9422 disconnect switches with flange-mount variable-depth operating mechanisms or cable mechanisms and Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TG1 or TG2 devices.

ORDERING

The disconnect switch, operating handle, and operating mechanism must be ordered from disconnect equipment supplier. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

POWERGLIDE DEFEATER HANDLE KIT

This clockwise defeater model includes door hardware for Bulletin A25 enclosures.

BULLETIN: A80

Catalog Number	Description
AL55CWD	Medium POWERGLIDE Handle - Clockwise opening with defeater and door hardware

WALL-MOUNT DISCONNECT ENCLOSURE WITH HANDLE, TYPE 12

- External formed body flange channels away liquids
- Removable door with continuous hinge
- Data pocket is high impact thermoplastic
- Oil-resistant gasket
- Collar studs for mounting optional panels
- Holes in body and door for mounting disconnect operating handle, operating mechanism, and door hardware
- Available with or without POWERGLIDE handle and latching hardware
- Includes latch pivot post(s) and cover interlock bracket welded to door, cover latch bar for door, and instructions for installing disconnects
- Model numbers ending with "PL" include POWERGLIDE handle and latching hardware
- Installation instructions provided

FINISH

Body: White inside with ANSI 61 gray finish outside.
Door: ANSI 61 gray inside and outside.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Blank Adapter Plates, Mild Steel, page 443
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393
POWERGLIDE Defeater Handle Kit, page 334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

ORDERING

Note: Some flexible cable operating mechanisms may not work in 8-in. deep enclosures due to interference with cable control hardware on inside of flange.

Depending on model, order as follows:
PL models:
- Operating mechanism and disconnect switch or circuit breakers
- Disconnect operating handle

All other models:
- Operating mechanism and disconnect switch or circuit breakers
- Disconnect operating handle
- POWERGLIDE Defeater Handle Kit or Door Hardware

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A25

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File No. 42186: Type 12
IEC 60529, IP65

APPLICATION

These general purpose disconnect enclosures accept major brand disconnect switches and circuit breakers, available with or without the Hoffman-supplied defeater door handle and handle hardware.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- Bonding provision on door
- External welded-on mounting brackets for easy installation

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Footnotes	With or Without Handle	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Data Pocket Size D x E (in.)	Data Pocket Size D x E (mm)
A20SA2208LP	20.00 x 21.38 x 8.00	508 x 543 x 203	—	Without	A20P20	A20P20G	17.00 x 17.00	432 x 432	6.00 x 6.00	152 x 152
A20SA2208LPPL	20.00 x 21.38 x 8.00	508 x 543 x 203	—	With	A20P20	A20P20G	17.00 x 17.00	432 x 432	6.00 x 6.00	152 x 152
A24SA2208LP	24.00 x 21.38 x 8.00	610 x 543 x 203	—	Without	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152
A24SA2208LPPL	24.00 x 21.38 x 8.00	610 x 543 x 203	—	With	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152
A24SA2608LP	24.00 x 25.38 x 8.00	610 x 645 x 203	—	Without	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152
A24SA2608LPPL	24.00 x 25.38 x 8.00	610 x 645 x 203	—	With	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152
A30SA2208LP	30.00 x 21.38 x 8.00	762 x 543 x 203	—	Without	A30P20	A30P20G	27.00 x 17.00	686 x 432	6.00 x 6.00	152 x 152
A30SA2208LPPL	30.00 x 21.38 x 8.00	762 x 543 x 203	—	With	A30P20	A30P20G	27.00 x 17.00	686 x 432	6.00 x 6.00	152 x 152
A30SA2608LP	30.00 x 25.38 x 8.00	762 x 645 x 203	—	Without	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A30SA2608LPPL	30.00 x 25.38 x 8.00	762 x 645 x 203	—	With	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A36SA2608LP	36.00 x 25.38 x 8.00	914 x 645 x 203	—	Without	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305
A36SA2608LPPL	36.00 x 25.38 x 8.00	914 x 645 x 203	—	With	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305
A36SA3208LP	36.00 x 31.38 x 8.00	914 x 797 x 203	—	Without	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A36SA3208LPPL	36.00 x 31.38 x 8.00	914 x 797 x 203	—	With	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A42SA3208LP	42.00 x 31.38 x 8.00	1067 x 797 x 203	—	Without	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3208LPPL	42.00 x 31.38 x 8.00	1067 x 797 x 203	—	With	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3808LP	42.00 x 37.38 x 8.00	1067 x 949 x 203	—	Without	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A42SA3808LPPL	42.00 x 37.38 x 8.00	1067 x 949 x 203	—	With	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A48SA3808LP	48.00 x 37.38 x 8.00	1219 x 949 x 203	—	Without	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A48SA3808LPPL	48.00 x 37.38 x 8.00	1219 x 949 x 203	—	With	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A60SA3808LP	60.00 x 37.38 x 8.00	1524 x 949 x 203	—	Without	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A60SA3808LPPL	60.00 x 37.38 x 8.00	1524 x 949 x 203	—	With	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A20SA2210LP	20.00 x 21.38 x 10.00	508 x 543 x 254	—	Without	A20P20	A20P20G	17.00 x 17.00	432 x 432	6.00 x 6.00	152 x 152

Catalog Number	AxBxC in.	AxBxC mm	Footnotes	With or Without Handle	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Data Pocket Size D x E (in.)	Data Pocket Size D x E (mm)
A20SA2210LPPL	20.00 x 21.38 x 10.00	508 x 543 x 254	—	With	A20P20	A20P20G	17.00 x 17.00	432 x 432	6.00 x 6.00	152 x 152
A24SA2210LP	24.00 x 21.38 x 10.00	610 x 543 x 254	—	Without	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152
A24SA2210LPPL	24.00 x 21.38 x 10.00	610 x 543 x 254	—	With	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152
A24SA2610LP	24.00 x 25.38 x 10.00	610 x 645 x 254	—	Without	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152
A24SA2610LPPL	24.00 x 25.38 x 10.00	610 x 645 x 254	—	With	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152
A30SA2210LP	30.00 x 21.38 x 10.00	762 x 543 x 254	—	Without	A30P20	A30P20G	27.00 x 17.00	686 x 432	6.00 x 6.00	152 x 152
A30SA2210LPPL	30.00 x 21.38 x 10.00	762 x 543 x 254	—	With	A30P20	A30P20G	27.00 x 17.00	686 x 432	6.00 x 6.00	152 x 152
A30SA2610LP	30.00 x 25.38 x 10.00	762 x 645 x 254	—	Without	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A30SA2610LPPL	30.00 x 25.38 x 10.00	762 x 645 x 254	—	With	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A36SA2610LP	36.00 x 25.38 x 10.00	914 x 645 x 254	—	Without	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305
A36SA2610LPPL	36.00 x 25.38 x 10.00	914 x 645 x 254	—	With	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305
A36SA3210LP	36.00 x 31.38 x 10.00	914 x 797 x 254	—	Without	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A36SA3210LPPL	36.00 x 31.38 x 10.00	914 x 797 x 254	—	With	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A42SA3210LP	42.00 x 31.38 x 10.00	1067 x 797 x 254	—	Without	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3210LPPL	42.00 x 31.38 x 10.00	1067 x 797 x 254	—	With	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3810LP	42.00 x 37.38 x 10.00	1067 x 949 x 254	—	Without	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A42SA3810LPPL	42.00 x 37.38 x 10.00	1067 x 949 x 254	—	With	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A48SA2610LPPL	48.00 x 25.38 x 10.00	1219 x 645 x 254	—	With	A48P24	A48P24G	45.00 x 21.00	1143 x 533	12.00 x 12.00	305 x 305
A48SA3810LP	48.00 x 37.38 x 10.00	1219 x 949 x 254	—	Without	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A48SA3810LPPL	48.00 x 37.38 x 10.00	1219 x 949 x 254	—	With	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A60SA3810LP	60.00 x 37.38 x 10.00	1524 x 949 x 254	—	Without	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A60SA3810LPPL	60.00 x 37.38 x 10.00	1524 x 949 x 254	—	With	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A60SA3812LPPL	60.00 x 37.38 x 12.00	1524 x 949 x 305	—	With	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A36SA3216LPPL	36.00 x 31.38 x 16.00	914 x 797 x 406	—	With	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A42SA3216LPPL	42.00 x 31.38 x 16.00	1067 x 797 x 406	—	With	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3816LPPL	42.00 x 37.38 x 16.00	1067 x 949 x 406	—	With	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A48SA3816LPPL	48.00 x 37.38 x 16.00	1219 x 949 x 406	—	With	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A60SA3816LP	60.00 x 37.38 x 16.00	1524 x 949 x 406	—	Without	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A60SA3816LPPL	60.00 x 37.38 x 16.00	1524 x 949 x 406	—	With	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A30SA2612LP	30.00 x 25.38 x 12.00	762 x 645 x 305	a	Without	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A30SA2612LPPL	30.00 x 25.38 x 12.00	762 x 645 x 305	a	With	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305
A36SA3212LP	36.00 x 31.38 x 12.00	914 x 797 x 305	a	Without	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A36SA3212LPPL	36.00 x 31.38 x 12.00	914 x 797 x 305	a	With	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A42SA3212LP	42.00 x 31.38 x 12.00	1067 x 797 x 305	a	Without	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3212LPPL	42.00 x 31.38 x 12.00	1067 x 797 x 305	a	With	A42P30	A42P30G	39.00 x 27.00	991 x 686	6.00 x 6.00	152 x 152
A42SA3812LP	42.00 x 37.38 x 12.00	1067 x 949 x 305	a	Without	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A42SA3812LPPL	42.00 x 37.38 x 12.00	1067 x 949 x 305	a	With	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305
A48SA3812LP	48.00 x 37.38 x 12.00	1219 x 949 x 305	a	Without	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A48SA3812LPPL	48.00 x 37.38 x 12.00	1219 x 949 x 305	a	With	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A60SA3812LP	60.00 x 37.38 x 12.00	1524 x 949 x 305	a	Without	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305
A36SA3216LP	36.00 x 31.38 x 16.00	914 x 797 x 406	a	Without	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305
A48SA3816LP	48.00 x 37.38 x 16.00	1219 x 949 x 406	a	Without	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305
A60SA3812A24LP	60.00 x 37.38 x 12.00	1524 x 949 x 305	b	Without	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305

[a]When using a Siemens ITE circuit breaker and an enclosure with an A dimension of 30-, 36- or 42-in., verify the amount of wire bend space required for both the line and load sides. Enclosures 12- and 16-in. deep can be modified to accept Siemens ITE 800 A and 1200 A circuit breakers. (Consult factory for details.)

[b]Catalog number A60SA3812A24LP enclosure will receive only 400 A and 600 A Allen-Bradley Bulletin 1494V disconnect switches, and Siemens ITE 800 Amp and 1200 Amp circuit breakers. The 400 Amp and 600 Amp Allen-Bradley disconnect switch will not fit any other size enclosure from the Bulletin A25 family. Blank Adapter Plates will not fit catalog number A60SA3812A24LP.

Purchase panels separately.

Table 430.10(B) Minimum Wire Bending Space at the Terminals of Enclosed Motor Controllers

Size of Wire (AWG or kcmil)	Wires per Terminal 1 (mm)	Wires per Terminal 1 (in.)	Wires per Terminal 2(mm)	Wires per Terminal 2 (in.)
14-10	Not specified	Not specified	—	—
8-6	30	1.5	—	—
4-3	50	2	—	—
2	65	2.5	—	—
1	75	3	—	—
1/0	125	5	125	5
2/0	150	6	150	6
3/0-4/0	175	7	175	7
250	200	8	200	8
300	250	10	250	10
350-500	300	12	300	12
600-700	350	14	400	16
750-900	450	18	475	19

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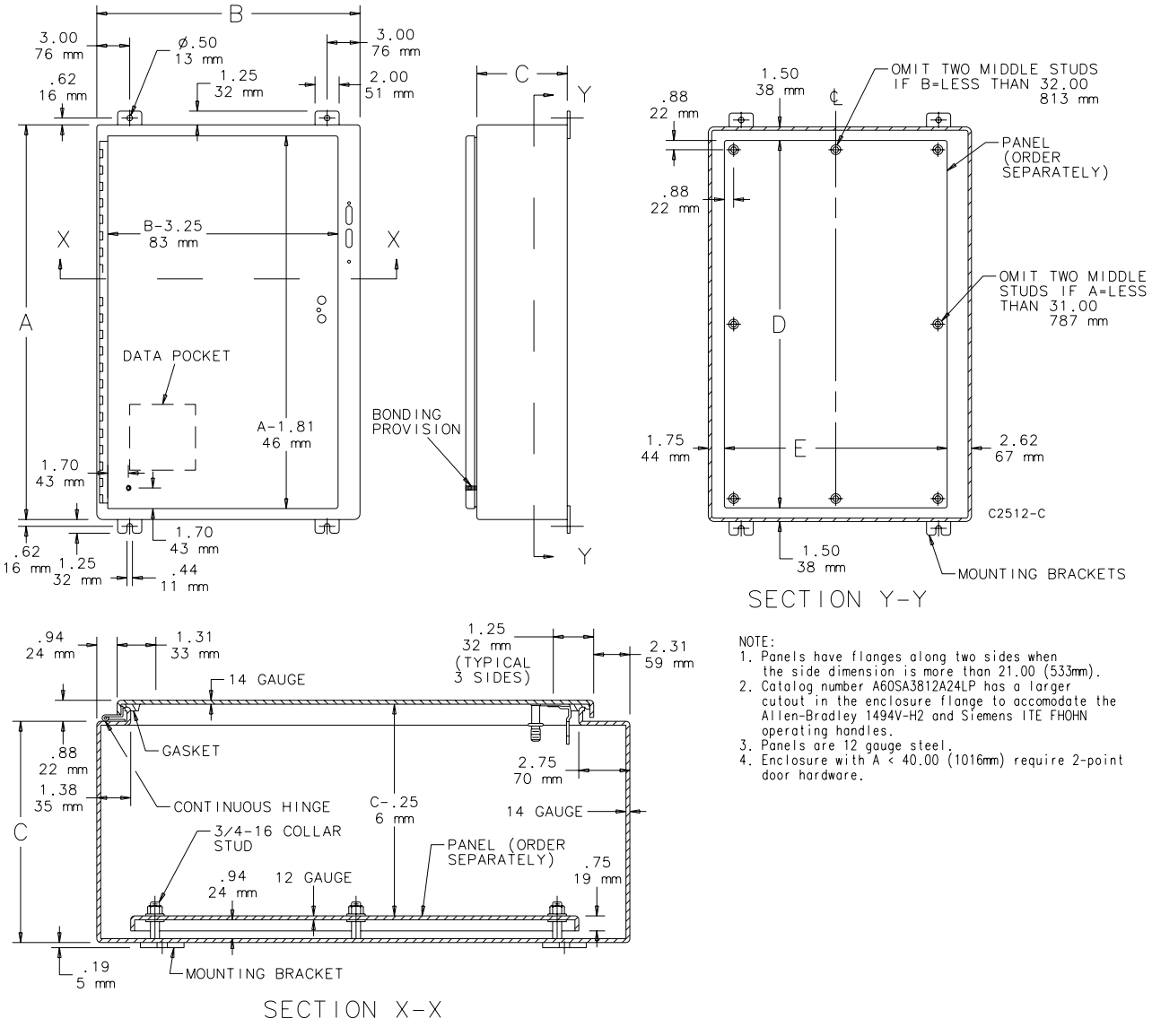
Where provision for 3 or more wires per terminal exists, the minimum wire bending space shall be in accordance with the requirements of Article 312.



NOTE:
1. Panels have flanges along two sides when the side dimension is more than 21.00 (533mm).
2. Catalog number A60SA3812A24LP has a larger cutout in the enclosure flange to accomodate the Allen-Bradley 1494V-H2 and Siemens ITE FHOHN operating handles.
3. Panels are 12 gauge steel.
4. Enclosure with A < 40.00 (1016mm) require 2-point door hardware.

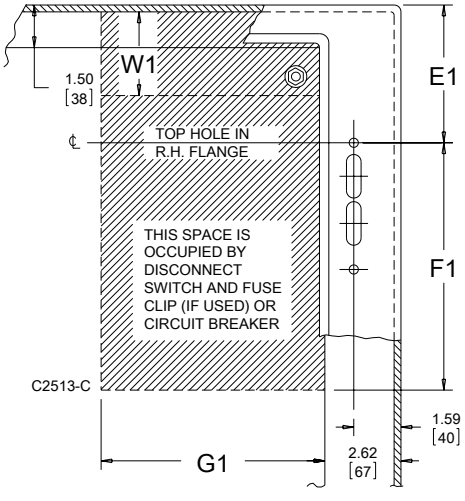
DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1 in Disconnect Mounting Space diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 4.75 in. (121 mm) when C = 8.00 in. (203 mm)
E1 = 7.09 in. (180 mm) when C =10.00 in. (254 mm)
E1 = 11.62 in. (294 mm) when C = 12.00 in. (305 mm)
E1 = 11.62 in. (294 mm) when C = 16.00 in. (406 mm)
E1 = 18.38 in. (467 mm) for A60SA3812A24LP
W1 = Wiring Space.

See Technical Information for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE 2005*** article 430.10(B) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.



Consult disconnect manufacturer for F1 and G1 dimensions.

nVent | HOFFMAN

CONCEPT DISCONNECT ENCLOSURE, TYPE 4

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- External-formed 90-degree body flange channels away liquids
- Bonding provision on door; grounding stud on body
- Holes in body for mounting disconnect operating handle and operating mechanism
- Panel mounting studs fit optional CONCEPT panels and other accessories
- Mounting holes in back of body for direct mounting for optional external mounting brackets
- Removable door with hidden hinges for clean, aesthetic appearance
- Corner-formed doors
- Provisions on door for optional high-impact thermoplastic data pocket
- Seamless foam-in-place gasket
- Door alignment device on doors wider than 30 in.
- CONCEPT-style latching system interlocks with the disconnect handle for added safety
- Unique door handle with tool-to-open feature and padlocking option supplied
- Self-grounding latch system with double seal
- Four hinges on 60-inch-high enclosures
- Simple easy-to-remove and install hinge pins with captivation clip
- High-torque threadless studs and fasteners on door
- V-shaped fiber-wrapped gasket on the disconnect side of the body flange provides extra deflection of water
- Installation instructions provided

INDUSTRY STANDARDS

Mounting brackets required to maintain UL/CSA external mounting requirement.

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12, Type 13
CSA File No. 42186: Type 4, 12
VDE, IP66
IEC 60529, IP66

APPLICATION

Use mild steel CONCEPT Disconnect Enclosures in applications that require indoor and outdoor environmental protection and maintain stylized design features. Accepts major brand disconnect switches and circuit breakers and is supplied with a Hoffman-integrated tool-to-open handle.

Furnished with Enclosures

1. Door interlock bracket welded to door
2. CONCEPT-style latching system (2-point or 3-point) installed on door
3. Instructions to locate and install disconnect
4. Hardware kit consisting of padlocking door handle, panel mounting nuts, grounding hardware and sealing washers for mounting holes

FINISH

Two standard finishes are available:

- ANSI 61 gray polyester powder paint inside and out
- RAL 7035 textured light-gray polyester powder paint inside and out

ACCESSORIES

CONCEPT Panels, page 1444
Blank Adapter Plates, Mild Steel, page 443
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393
Mounting Bracket Kits (CMFK, CMTGFT), page 1402
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

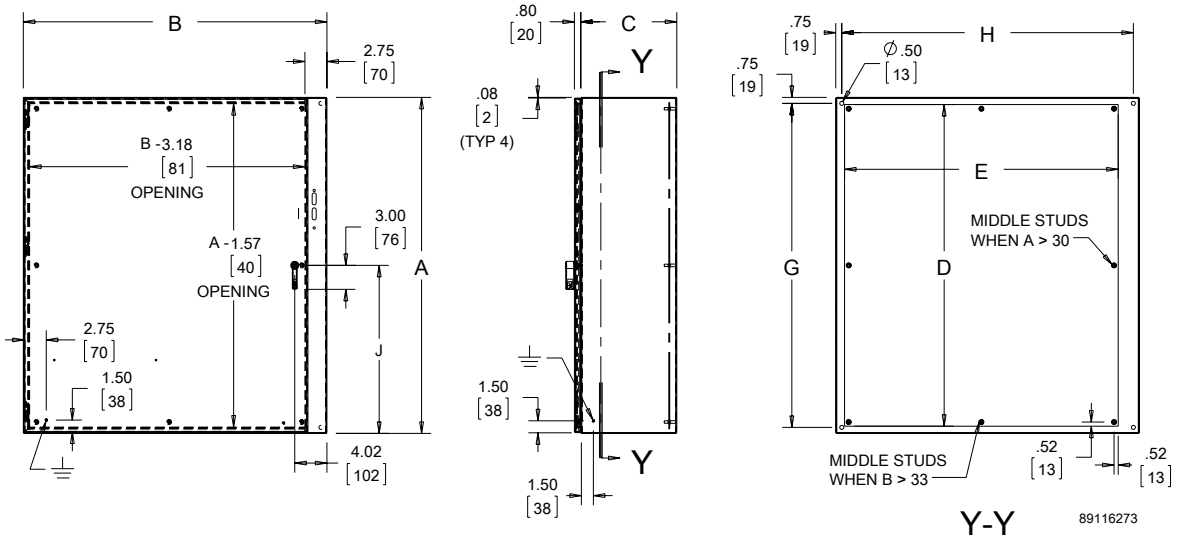
BULLETIN: CWD

Standard Product

Catalog Number	AxBxC in./mm	Finish	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	Latches Style	J in./mm
CDSC20228	20.00 x 22.00 x 8.00 508 x 559 x 203	ANSI 61 Gray	14	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 20.50 470 x 521	1	2-point	5.00 127
CDSC20228LG	20.00 x 22.00 x 8.00 508 x 559 x 203	RAL 7035 Gray	14	16	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 20.50 470 x 521	1	2-point	5.00 127
CDSC24228	24.00 x 22.00 x 8.00 610 x 559 x 203	ANSI 61 Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 20.50 572 x 521	1	2-point	6.00 152
CDSC24228LG	24.00 x 22.00 x 8.00 610 x 559 x 203	RAL 7035 Gray	14	16	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 20.50 572 x 521	1	2-point	6.00 152
CDSC24268	24.00 x 26.00 x 8.00 610 x 660 x 203	ANSI 61 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	1	2-point	6.00 152

Catalog Number	AxBxC in./mm	Finish	Door Gauge	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	Latches Style	J in./mm
CDSC24268LG	24.00 x 26.00 x 8.00 610 x 660 x 203	RAL 7035 Gray	14	16	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	1	2-point	6.00 152
CDSC30268	30.00 x 26.00 x 8.00 762 x 660 x 203	ANSI 61 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	1	2-point	6.00 152
CDSC30268LG	30.00 x 26.00 x 8.00 762 x 660 x 203	RAL 7035 Gray	14	16	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	1	2-point	6.00 152
CDSC36268	36.00 x 26.00 x 8.00 914 x 660 x 203	ANSI 61 Gray	14	14	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 24.50 876 x 622	1	2-point	6.00 152
CDSC36268LG	36.00 x 26.00 x 8.00 914 x 660 x 203	RAL 7035 Gray	14	14	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 24.50 876 x 622	1	2-point	6.00 152
CDSC36328	36.00 x 32.00 x 8.00 914 x 813 x 203	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 30.50 869 x 775	1	2-point	6.00 152
CDSC36328LG	36.00 x 32.00 x 8.00 914 x 813 x 203	RAL 7035 Gray	14	14	CP3630	CP3630G	34.20 x 28.20 869 x 716	34.50 x 30.50 869 x 775	1	2-point	6.00 152
CDSC423212	42.00 x 32.00 x 12.00 1067 x 813 x 305	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 30.50 1029 x 775	1	3-point	21.00 533
CDSC423212LG	42.00 x 32.00 x 12.00 1067 x 813 x 305	RAL 7035 Gray	14	14	CP4230	CP4230G	40.20 x 28.20 1021 x 716	40.50 x 30.50 1029 x 775	1	3-point	21.00 533
CDSC423812	42.00 x 38.00 x 12.00 1067 x 965 x 305	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 36.50 1029 x 927	1	3-point	21.00 533
CDSC423812LG	42.00 x 38.00 x 12.00 1067 x 965 x 305	RAL 7035 Gray	14	14	CP4236	CP4236G	40.20 x 34.20 1021 x 869	40.50 x 36.50 1029 x 927	1	3-point	21.00 533
CDSC483812	48.00 x 38.00 x 12.00 1219 x 965 x 305	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 36.50 1181 x 927	1	3-point	24.00 610
CDSC483812LG	48.00 x 38.00 x 12.00 1219 x 965 x 305	RAL 7035 Gray	14	14	CP4836	CP4836G	46.20 x 34.20 1173 x 869	46.50 x 36.50 1181 x 927	1	3-point	24.00 610
CDSC603812	60.00 x 38.00 x 12.00 1524 x 965 x 305	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 36.50 1486 x 927	1	3-point	30.00 762
CDSC603812LG	60.00 x 38.00 x 12.00 1524 x 965 x 305	RAL 7035 Gray	14	14	CP6036	CP6036G	58.20 x 34.20 1478 x 869	58.50 x 36.50 1486 x 927	1	3-point	30.00 762
CDSC363216	36.00 x 32.00 x 16.00 914 x 813 x 406	ANSI 61 Gray	14	14	CP3630	CP3630G	34.20 X 28.20 869 x 716	34.50 x 30.50 876 x 775	1	3-point	18.00 457
CDSC363216LG	36.00 x 32.00 x 16.00 914 x 813 x 406	RAL 7035 Gray	14	14	CP3630	CP3630G	34.20 X 28.20 869 x 716	34.50 x 30.50 876 x 775	1	3-point	18.00 457
CDSC423216	42.00 x 32.00 x 16.00 1067 x 813 x 406	ANSI 61 Gray	14	14	CP4230	CP4230G	40.20 X 28.20 1021 x 716	40.50 x 30.50 1029 x 775	1	3-point	21.00 533
CDSC423216LG	42.00 x 32.00 x 16.00 1067 x 813 x 406	RAL 7035 Gray	14	14	CP4230	CP4230G	40.20 X 28.20 1021 x 716	40.50 x 30.50 1029 x 775	1	3-point	21.00 533
CDSC423816	42.00 x 38.00 x 16.00 1067 x 965 x 406	ANSI 61 Gray	14	14	CP4236	CP4236G	40.20 X 34.20 1021 X 869	40.50 x 36.50 1029 X 927	1	3-point	21.00 533
CDSC423816LG	42.00 x 38.00 x 16.00 1067 x 965 x 406	RAL 7035 Gray	14	14	CP4236	CP4236G	40.20 X 34.20 1021 X 869	40.50 x 36.50 1029 X 927	1	3-point	21.00 533
CDSC483816	48.00 x 38.00 x 16.00 1219 x 965 x 406	ANSI 61 Gray	14	14	CP4836	CP4836G	46.20 X 34.20 1173 X 869	46.50 x 36.50 1181 X 927	1	3-point	24.00 610
CDSC483816LG	48.00 x 38.00 x 16.00 1219 x 965 x 406	RAL 7035 Gray	14	14	CP4836	CP4836G	46.20 X 34.20 1173 X 869	46.50 x 36.50 1181 X 927	1	3-point	24.00 610
CDSC603816	60.00 x 38.00 x 16.00 1524 x 965 x 406	ANSI 61 Gray	14	14	CP6036	CP6036G	58.20 X 34.20 1478 x 869	58.50 x 36.50 1486 x 927	1	3-point	30.00 762
CDSC603816LG	60.00 x 38.00 x 16.00 1524 x 965 x 406	RAL 7035 Gray	14	14	CP6036	CP6036G	58.20 X 34.20 1478 x 869	58.50 x 36.50 1486 x 927	1	3-point	30.00 762

Purchase panels separately.



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CONCEPT DISCONNECT ENCLOSURE, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/cUL external mounting requirement.

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997 cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Use CONCEPT Disconnect Enclosures in applications that require stylized design features and a preferred cutout that accepts major brand disconnect switches and circuit breakers.

Furnished with Enclosures

1. Door interlock bracket welded to door
2. Three-point door latching system installed on door
3. Instructions to locate and install disconnect
4. Hardware kit consisting of padlocking door handle, panel mounting nuts, grounding hardware and sealing washers for mounting holes

SPECIFICATIONS

- Body and door are 14 gauge Type 304 or 316 stainless steel
- Seams continuously welded and ground smooth
- External-formed 90-degree body flange
- Integral door ramp to properly align door and gasket to body flange
- Holes provided in right-hand flange are for mounting disconnect operating handle and operating mechanism
- Panel mounting studs fit optional CONCEPT panels and other accessories (purchase panels separately)
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Stainless steel hidden hinges
- Standard full-access door opening
- Corner formed doors are interchangeable and easily removable by pulling captive hinge pins
- Provisions on door for optional high-impact thermoplastic data pocket
- Seamless foam-in-place gasket
- Three-point door latching system installed on door interlocks with disconnect handle for added safety
- Interlock bracket welded to door
- Unique integrated door handle with tool-to-open feature and padlock option installed on door
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Includes hardware kit (consisting of padlocking door handle, panel mounting nuts, grounding hardware and sealing washers for mounting holes) and instructions for installing disconnects

FINISH

Sides, top bottom and door have smooth #4 brushed finish. Handle is die-cast with black textured polyester powder paint.

ACCESSORIES

Blank Adapter Plates, Mild Steel, page 443
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393
Mounting Bracket Kits (CMFK, CMTGFT), page 1402
CONCEPT Panels, page 1444
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

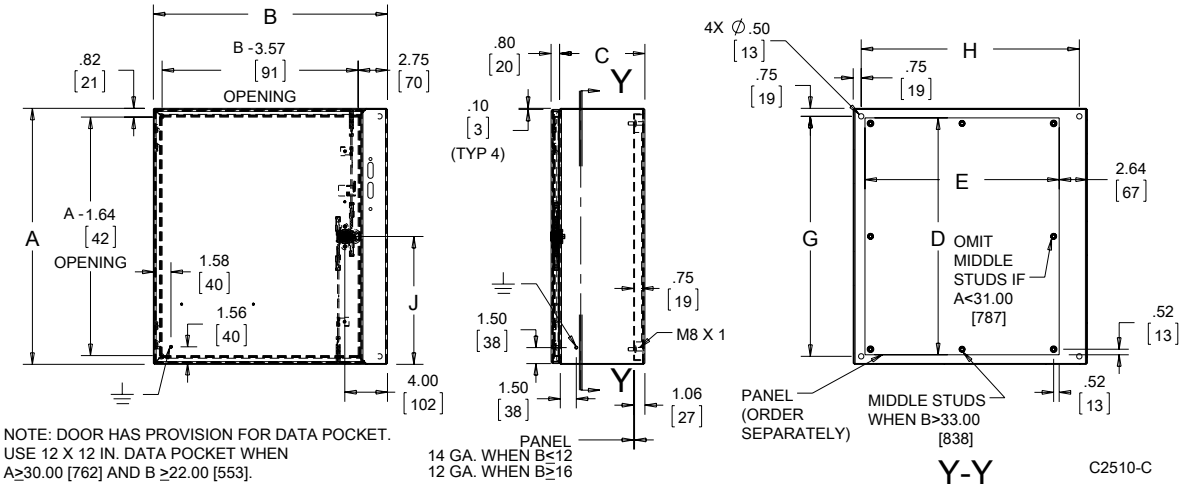
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CWSD

Standard Product

Catalog Number	AxBxC in./mm	Stainless Steel Type	CONCEPT Panel	Conductive Panel	Panel Size D x E in./mm	Mounting G x H in./mm	J in./mm
CDSC20228SS	20.00 x 22.00 x 8.00 508 x 559 x 203	304	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 20.50 470 x 521	8.00 203
CDSC20228SS6	20.00 x 22.00 x 8.00 508 x 559 x 203	316	CP2020	CP2020G	18.20 x 18.20 462 x 462	18.50 x 20.50 470 x 521	8.00 203
CDSC24228SS	24.00 x 22.00 x 8.00 610 x 559 x 203	304	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 20.50 572 X 521	12.00 305
CDSC24228SS6	24.00 x 22.00 x 8.00 610 x 559 x 203	316	CP2420	CP2420G	22.20 x 18.20 564 x 462	22.50 x 20.50 572 X 521	12.00 305
CDSC24268SS	24.00 x 26.00 x 8.00 610 x 660 x 203	304	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	12.00 305
CDSC24268SS6	24.00 x 26.00 x 8.00 610 x 660 x 203	316	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	12.00 305
CDSC30268SS	30.00 x 26.00 x 8.00 762 x 660 x 203	304	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	15.00 381
CDSC30268SS6	30.00 x 26.00 x 8.00 762 x 660 x 203	316	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	15.00 381
CDSC36268SS	36.00 x 26.00 x 8.00 914 x 660 x 203	304	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 24.50 876 x 622	18.00 457
CDSC36268SS6	36.00 x 26.00 x 8.00 914 x 660 x 203	316	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 24.50 876 x 622	18.00 457
CDSC242610SS	24.00 x 26.00 x 10.00 610 x 660 x 254	304	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	12.00 305
CDSC242610SS6	24.00 x 26.00 x 10.00 610 x 660 x 254	316	CP2424	CP2424G	22.20 x 22.20 564 x 564	22.50 x 24.50 572 x 622	12.00 305
CDSC302610SS	30.00 x 26.00 x 10.00 762 x 660 x 254	304	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	15.00 381
CDSC302610SS6	30.00 x 26.00 x 10.00 762 x 660 x 254	316	CP3024	CP3024G	28.20 x 22.20 716 x 564	28.50 x 24.50 724 x 622	15.00 381

Purchase panels separately. Optional plated CONCEPT panels available. Optional NEMA style and stainless steel panels require conversion kit catalog number CCPM4.



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CONCEPT WITH QUARTER-TURN LATCHES DISCONNECT ENCLOSURE, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/cUL external mounting requirement.

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For use in disconnect applications that require larger controls and stylized design features, CONCEPT Disconnect Enclosures feature four additional quarter-turn latches and a door-alignment device for secure closure and security.

Furnished with Enclosures:

1. Door interlock bracket welded to door
2. Door latching system: latch with disconnect interlock mechanism, along with four quarter-turn latches installed on door
3. Instructions to locate and install disconnect
4. Hardware kit consisting of padlocking door handle, panel mounting nuts, grounding hardware, and sealing washers for mounting holes

SPECIFICATIONS

- Body and door are 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- External-formed 90-degree body flange
- Integral door alignment device to properly align door and gasket to body flange
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Panel mounting studs fit optional CONCEPT panels and other accessories (purchase panels separately)
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Stainless steel hidden hinges
- Standard full-access door opening
- Corner-formed doors are interchangeable and easily removable by pulling captive hinge pins
- Provisions on door for optional high-impact thermoplastic data pocket
- Seamless foam-in-place gasket
- Door latching system: latch installed on door with interlock mechanism on the disconnect handle for added safety; four quarter-turn latches also included
- Interlock bracket welded to door
- Unique integrated door handle with tool-to-open feature and padlock option installed on door
- Self-grounding latch system with double seal
- Bonding provision on door; grounding stud on body
- Includes hardware kit (consisting of padlocking door handle, panel mounting nuts, grounding hardware and sealing washers for mounting holes) and instructions for installing disconnects

FINISH

Sides and body have smooth #4 brushed finish. Optional mild steel panels are painted white. Handle is die-cast with black textured polyester powder paint.

ACCESSORIES

Blank Adapter Plates, Mild Steel, page 443
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393
Mounting Bracket Kits (CMFK, CMTGFT), page 1402
CONCEPT Panels, page 1444
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: CWSD

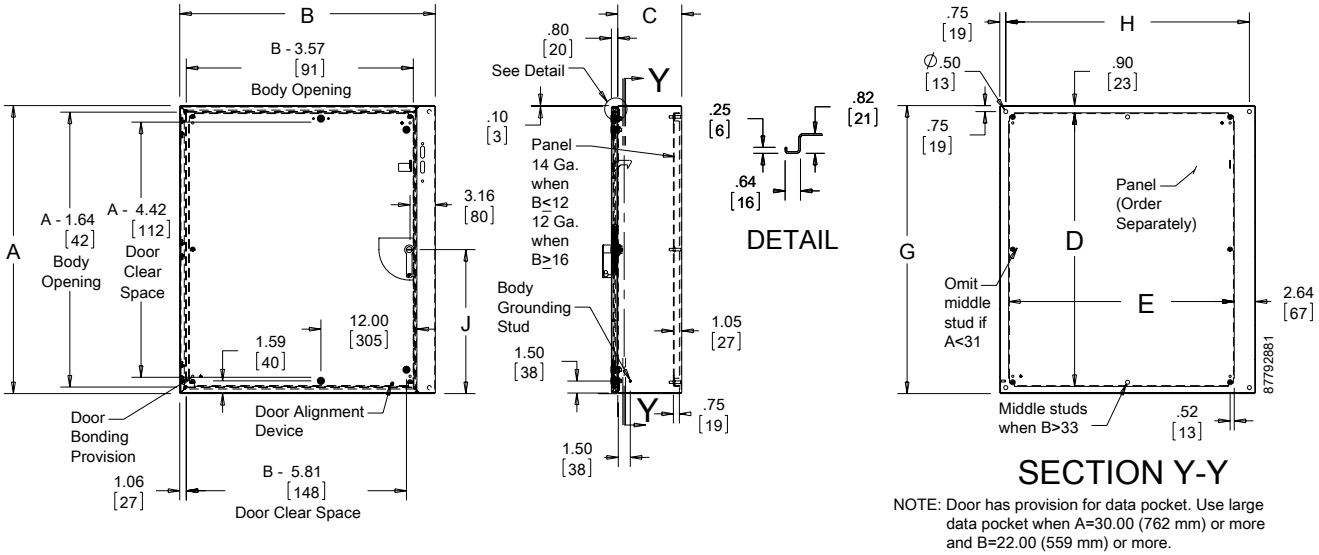
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	CONCEPT Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	J (in.)	J (mm)
CDSC36328SSR	36.00 x 32.00 x 8.00	914 x 813 x 203	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	869 x 775	18.00	457
CDSC36328SS6R	36.00 x 32.00 x 8.00	914 x 813 x 203	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	869 x 775	18.00	457
CDSC363210SSR	36.00 x 32.00 x 10.00	914 x 813 x 254	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	876 x 775	18.00	457
CDSC363210SS6R	36.00 x 32.00 x 10.00	914 x 813 x 254	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	876 x 775	18.00	457
CDSC423210SSR	42.00 x 32.00 x 10.00	1067 x 813 x 254	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC423210SS6R	42.00 x 32.00 x 10.00	1067 x 813 x 254	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC483810SSR	48.00 x 38.00 x 10.00	1219 x 965 x 254	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC483810SS6R	48.00 x 38.00 x 10.00	1219 x 965 x 254	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC363212SSR	36.00 x 32.00 x 12.00	914 x 813 x 305	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	876 x 775	18.00	457
CDSC363212SS6R	36.00 x 32.00 x 12.00	914 x 813 x 305	CP3630	CP3630G	34.20 x 28.20	869 x 716	34.50 x 30.50	876 x 775	18.00	457
CDSC423212SSR	42.00 x 32.00 x 12.00	1067 x 813 x 305	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC423212SS6R	42.00 x 32.00 x 12.00	1067 x 813 x 305	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC423812SSR	42.00 x 38.00 x 12.00	1067 x 965 x 305	CP4236	CP4236G	40.20 x 34.20	1021 x 869	40.50 x 36.50	1029 x 927	21.00	533
CDSC423812SS6R	42.00 x 38.00 x 12.00	1067 x 965 x 305	CP4236	CP4236G	40.20 x 34.20	1021 x 869	40.50 x 36.50	1029 x 927	21.00	533
CDSC483812SSR	48.00 x 38.00 x 12.00	1219 x 965 x 305	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC483812SS6R	48.00 x 38.00 x 12.00	1219 x 956 x 305	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC603812SSR	60.00 x 38.00 x 12.00	1524 x 965 x 305	CP6036	CP6036G	58.20 x 34.20	1478 x 869	58.50 x 36.50	1486 x 927	30.00	762

Catalog Number	AxBxC in.	AxBxC mm	CONCEPT Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	J (in.)	J (mm)
CDSC603812SS6R	60.00 x 38.00 x 12.00	1524 x 965 x 305	CP6036	CP6036G	58.20 x 34.20	1478 x 869	58.50 x 36.50	1486 x 927	30.00	762
CDSC423216SSR	42.00 x 32.00 x 16.00	1067 x 813 x 406	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC423216SS6R	42.00 x 32.00 x 16.00	1067 x 813 x 406	CP4230	CP4230G	40.20 x 28.20	1021 x 716	40.50 x 30.50	1029 x 775	21.00	533
CDSC423816SSR	42.00 x 38.00 x 16.00	1067 x 965 x 406	CP4236	CP4236G	40.20 x 34.20	1021 x 869	40.50 x 36.50	1029 x 927	21.00	533
CDSC423816SS6R	42.00 x 38.00 x 16.00	1067 x 965 x 406	CP4236	CP4236G	40.20 x 34.20	1021 x 869	40.50 x 36.50	1029 x 927	21.00	533
CDSC483816SSR	48.00 x 38.00 x 16.00	1219 x 965 x 406	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC483816SS6R	48.00 x 38.00 x 16.00	1219 x 965 x 406	CP4836	CP4836G	46.20 x 34.20	1173 x 869	46.50 x 36.50	1181 x 927	24.00	610
CDSC603816SS6R	60.00 x 38.00 x 16.00	1524 x 965 x 406	CP6036	CP6036G	58.20 x 34.20	1478 x 869	58.50 x 36.50	1486 x 927	30.00	762
CDSC603816SSR	60.00 x 38.00 x 16.00	1524 x 965 x 406	CP6036	CP6036G	58.20 x 34.20	1478 x 869	58.50 x 36.50	1486 x 927	30.00	762

Enclosure doors have one latch with interlock mechanism, and four quarter-turn latches

Purchase panels separately. Optional plated CONCEPT panels available. Optional NEMA style and stainless steel panels require conversion kit catalog number CCPM4.



NOTE: Door has provision for data pocket. Use large data pocket when A=30.00 (762 mm) or more and B=22.00 (559 mm) or more.

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1. Wiring space W1 is available when disconnect is installed in the enclosure.

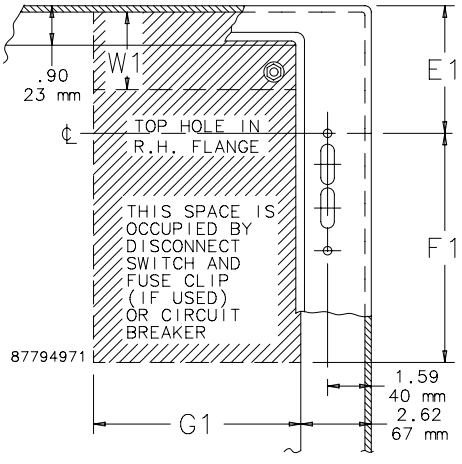
E1 = 4.75 in. (121 mm) when C = 8.00 in. (203 mm)
E1 = 11.62 in. (294 mm) when C = 12.00 in. (305 mm)
E1 = 11.62 in. (294 mm) when C = 16.00 in. (406 mm)
W1 = Wiring Space.

See Technical Information for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine whether wiring space is adequate.

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

WALL-MOUNT DISCONNECT ENCLOSURE WITH CLAMPS, TYPE 4

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- External welded-on mounting brackets for easy installation
- External formed body flange channels away liquids
- Stainless steel screw-down clamps on three sides of door
- Removable door with continuous hinge for strength and ruggedness
- Removable heavy gauge continuous hinge pin
- Data pocket is high impact thermoplastic
- Type 4 rated door gasket
- Collar studs for mounting optional panels
- Holes in body for mounting disconnect operating handle and operating mechanism
- Bonding provision on door
- Bracket welded to door for attaching disconnect door catch (interlock)
- Installation instructions provided

FINISH

ANSI 61 gray polyester powder paint inside and out.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Blank Adapter Plates, Mild Steel, page 443
Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A19

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 3, 4, 12, 13
CSA File No. 42186: Type 4, 12
IEC 60529, IP66

APPLICATION

For disconnect applications in which a clamp-secured door is preferred. Clamps on three sides of the door keep liquid and contaminants out. Preferred cutout accepts major brand disconnect switches and circuit breakers.

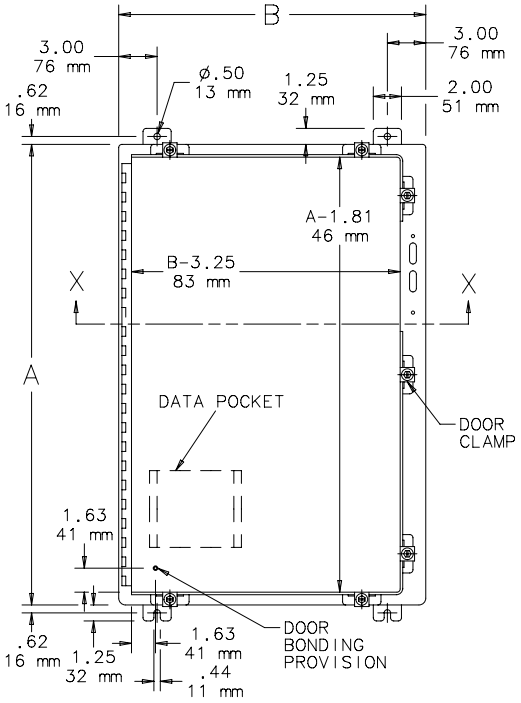
Furnished with Enclosures

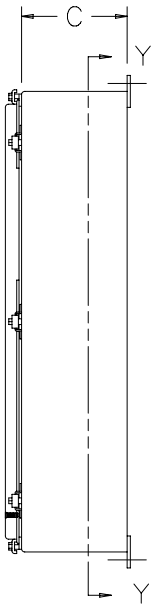
1. Bracket welded to door for attaching disconnect door catch (interlock)
2. Instructions to locate and install disconnect switches, circuit breakers and operating mechanisms

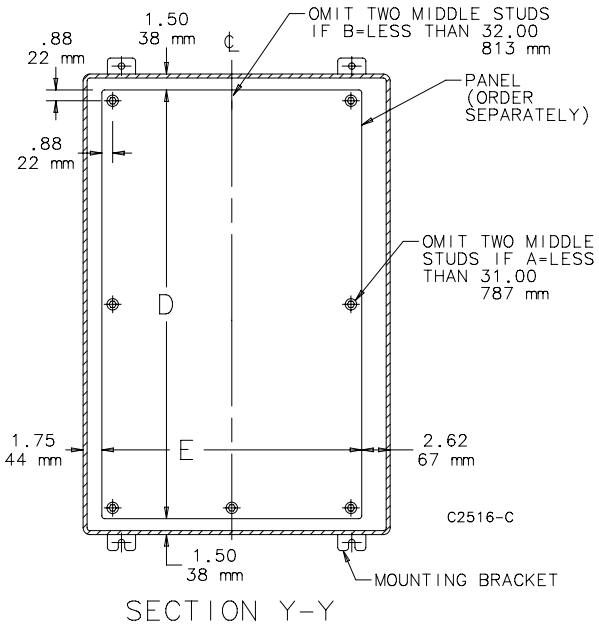
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	Data Pocket Size in./mm	Number of Clamps
A24HS2108LP	24.00 x 21.38 x 8.00 610 x 543 x 203	A24P20	A24P20G	21.00 x 17.00 533 x 432	6.00 x 6.00 152 x 152	5
A24HS2508LP	24.00 x 25.38 x 8.00 610 x 645 x 203	A24P24	A24P24G	21.00 x 21.00 533 x 533	6.00 x 6.00 152 x 152	5
A30HS2508LP	30.00 x 25.38 x 8.00 762 x 645 x 203	A30P24	A30P24G	27.00 x 21.00 686 x 533	12.00 x 12.00 305 x 305	5
A36HS2508LP	36.00 x 25.38 x 8.00 914 x 645 x 203	A36P24	A36P24G	33.00 x 21.00 838 x 533	12.00 x 12.00 305 x 305	5
A36HS3108LP	36.00 x 31.38 x 8.00 914 x 797 x 203	A36P30	A36P30G	33.00 x 27.00 838 x 686	12.00 x 12.00 305 x 305	7
A42HS3112LP	42.00 x 31.38 x 12.00 1067 x 797 x 305	A42P30	A42P30G	39.00 x 27.00 991 x 686	6.00 x 6.00 152 x 152	10
A42HS3712LP	42.00 x 37.38 x 12.00 1067 x 949 x 305	A42P36	A42P36G	39.00 x 33.00 991 x 838	12.00 x 12.00 305 x 305	10
A48HS3712LP	48.00 x 37.38 x 12.00 1219 x 949 x 305	A48P36	A48P36G	45.00 x 33.00 1143 x 838	12.00 x 12.00 305 x 305	10
A60HS3712LP	60.00 x 37.38 x 12.00 1524 x 949 x 305	A60P36	A60P36G	57.00 x 33.00 1448 x 838	12.00 x 12.00 305 x 305	11

Purchase panels separately.

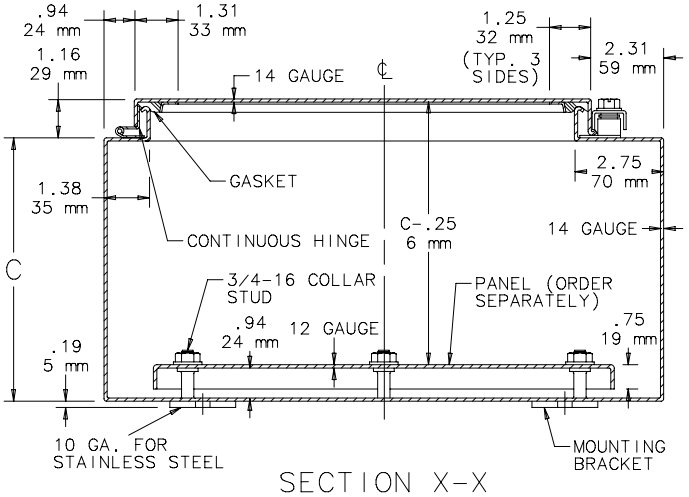






SECTION Y-Y

NOTE: 1. 12 gauge panels have flanges along two sides when the side dimension is more than 21.00 inches (533mm). Panels A24P20 and A24P24 have flanges on four sides.



SECTION X-X

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WALL-MOUNT DISCONNECT ENCLOSURE WITH CLAMPS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For disconnect applications in which a clamp-secured door is preferred, this enclosure features clamps on three sides to keep liquids and contaminants from entering and a preferred cutout that accepts major brand disconnect switches and circuit breakers.

Furnished with Enclosure

1. Bracket welded to door for attaching disconnect door catch (interlock)
2. Instructions to locate and install disconnect switches, circuit breakers and operating mechanisms

SPECIFICATIONS

- 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth
- External mounting brackets
- External-formed flange around all sides of enclosure opening
- Stainless steel door clamps on three sides of door
- Door removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Seamless foam-in-place gasket
- Collar studs provided for mounting optional panels
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Bonding provision on door; ground stud on body
- All exterior hardware on Type 316L enclosures matches the enclosure material
- Bracket welded to door to attach disconnect door catch (interlock)
- Includes instructions for installing disconnect switches, circuit breakers and operating mechanisms

FINISH

Sides and body have smooth #4 brushed finish.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Blank Adapter Plates, Mild Steel, page 443
Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

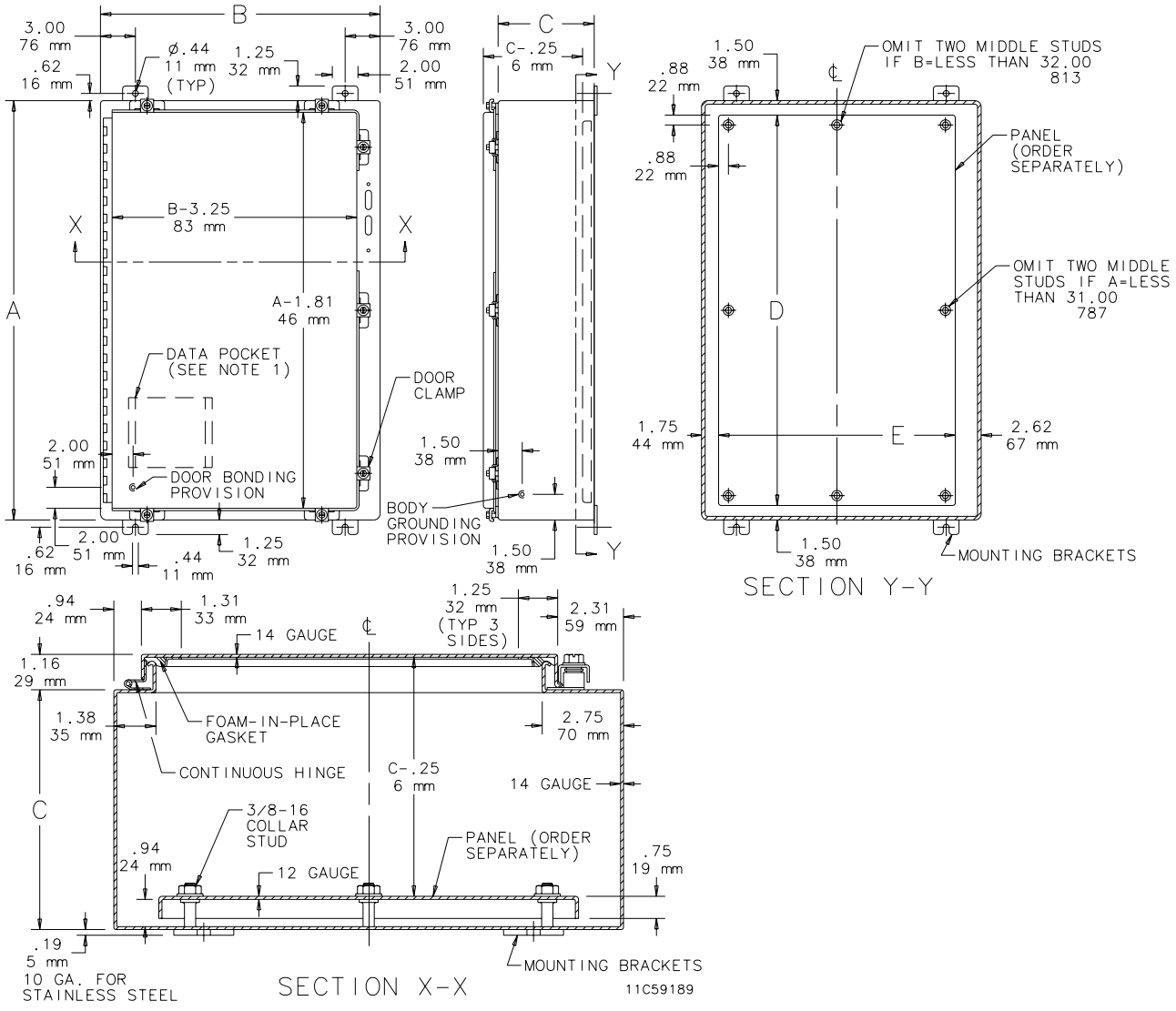
BULLETIN: A19S

5

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Stainless Steel Type	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Data Pocket Size (in.)	Data Pocket Size (mm)	Number of Clamps
A24HS2108SSLP	24.00 x 21.38 x 8.00	610 x 543 x 203	304	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152	5
A24HS2108SS6LP	24.00 x 21.38 x 8.00	610 x 543 x 203	316L	A24P20	A24P20G	21.00 x 17.00	533 x 432	6.00 x 6.00	152 x 152	5
A24HS2508SSLP	24.00 x 25.38 x 8.00	610 x 645 x 203	304	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152	5
A24HS2508SS6LP	24.00 x 25.38 x 8.00	610 x 645 x 203	316L	A24P24	A24P24G	21.00 x 21.00	533 x 533	6.00 x 6.00	152 x 152	5
A30HS2508SSLP	30.00 x 25.38 x 8.00	762 x 645 x 203	304	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305	5
A30HS2508SS6LP	30.00 x 25.38 x 8.00	762 x 645 x 203	316L	A30P24	A30P24G	27.00 x 21.00	686 x 533	12.00 x 12.00	305 x 305	5
A36HS2508SSLP	36.00 x 25.38 x 8.00	914 x 645 x 203	304	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305	5
A36HS2508SS6LP	36.00 x 25.38 x 8.00	914 x 645 x 203	316L	A36P24	A36P24G	33.00 x 21.00	838 x 533	12.00 x 12.00	305 x 305	5
A36HS3108SSLP	36.00 x 31.38 x 8.00	914 x 797 x 203	304	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305	7
A36HS3108SS6LP	36.00 x 31.38 x 8.00	914 x 797 x 203	316L	A36P30	A36P30G	33.00 x 27.00	838 x 686	12.00 x 12.00	305 x 305	7
A42HS3112SSLP	42.00 x 31.38 x 12.00	1067 x 797 x 305	304	A42P30	A42P30G	39.00 x 27.00	991 x 686	12.00 x 12.00	305 x 305	10
A42HS3112SS6LP	42.00 x 31.38 x 12.00	1067 x 797 x 305	316L	A42P30	A42P30G	39.00 x 27.00	991 x 686	12.00 x 12.00	305 x 305	10
A42HS3712SSLP	42.00 x 37.38 x 12.00	1067 x 949 x 305	304	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305	10
A42HS3712SS6LP	42.00 x 37.38 x 12.00	1067 x 949 x 305	316L	A42P36	A42P36G	39.00 x 33.00	991 x 838	12.00 x 12.00	305 x 305	10
A48HS3712SSLP	48.00 x 37.38 x 12.00	1219 x 949 x 305	304	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305	10
A48HS3712SS6LP	48.00 x 37.38 x 12.00	1219 x 949 x 305	316L	A48P36	A48P36G	45.00 x 33.00	1143 x 838	12.00 x 12.00	305 x 305	10
A60HS3712SSLP	60.00 x 37.38 x 12.00	1524 x 949 x 305	304	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305	11
A60HS3712SS6LP	60.00 x 37.38 x 12.00	1524 x 949 x 305	316L	A60P36	A60P36G	57.00 x 33.00	1448 x 838	12.00 x 12.00	305 x 305	11

Purchase panels separately. Optional stainless steel, composite or aluminum panels are available for most sizes



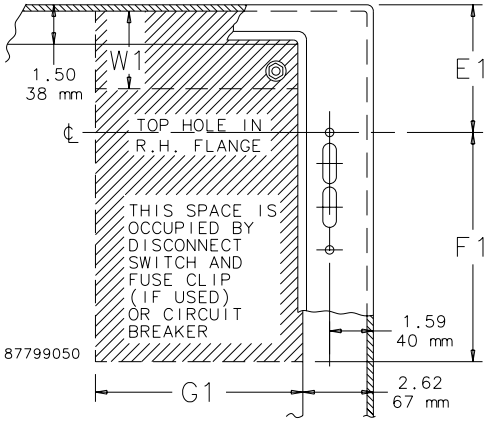
DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1, and G1. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 8.62 in. (219 mm) when C = 8.00 in. (203 mm)
E1 = 11.62 in. (294 mm) when C = 12.00 in. (305 mm)
W1 = Wiring Space

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine whether wiring space is adequate.

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

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FIBERGLASS DISCONNECT, TYPE 4X

SPECIFICATIONS

- Fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Seams are sealed; no holes or knockouts
- Gasket assures watertight and dust-tight seal
- Fiberglass material is easily drilled, filed or sawed
- Hinges are fiberglass-reinforced polyester
- Doors are secured with Type 304 stainless steel slotted quarter-turn latches
- Data pocket is high-impact thermoplastic
- Copper flashed steel collar studs for mounting optional panels and terminal block kits
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Internal grounding provisions for quarter-turn latches
- Includes bracket affixed to door for attaching disconnect door catch (interlock) and instructions for installing disconnects
- Material is halogen free

FINISH

Standard fiberglass material is light-gray inside and out. Optional steel panels are painted white. Optional stainless steel, aluminum, conductive and composite panels are unpainted.

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3, 3R, 4, 4X, 12, 13; File No. E61997
Enclosure flammability evaluated per UL 508A

NEMA/EEMAC Type 3, 3R, 4, 4X, 12, 13
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

For effective and economical disconnect protection in the harshest corrosive environments, these enclosures provide secure door closure through the use of Type 304 stainless steel slotted quarter-turn latches.

ACCESSORIES

Frameless Window Kit, page 1347
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A17WD

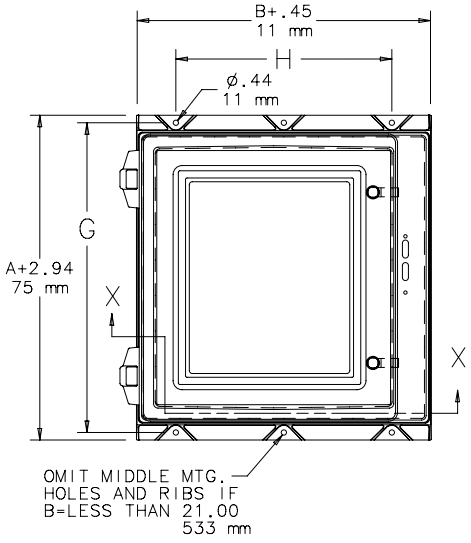
Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size in./mm	Mounting G x H in./mm	Number of Latches
A20HS1610GQRLP	20.19 x 16.25 x 10.00 513 x 413 x 254	A20P16	A20P16G	17.00 x 13.00 432 x 330	21.81 x 10.00 554 x 254	2
A24HS2008GQRLP	24.25 x 20.25 x 8.00 616 x 514 x 203	A24P20	A24P20G	21.00 x 17.00 533 x 432	25.86 x 14.00 657 x 356	2
A24HS2408GQRLP	24.19 x 24.19 x 8.00 614 x 614 x 203	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	2
A24HS2412GQRLP	24.19 x 24.19 x 12.00 614 x 614 x 305	A24P24	A24P24G	21.00 x 21.00 533 x 533	25.81 x 18.00 656 x 457	2
A30HS2412GQRLP	30.25 x 24.25 x 12.00 768 x 616 x 305	A30P24	A30P24G	27.00 x 21.00 686 x 533	31.95 x 18.00 812 x 457	2
A36HS3012GQRLP	36.25 x 30.25 x 12.00 921 x 768 x 305	A36P30	A36P30G	33.00 x 27.00 838 x 686	37.58 x 24.00 955 x 610	4
A48HS3612GQRLP	48.25 x 36.25 x 12.00 1226 x 921 x 305	A48P36	A48P36G	45.00 x 33.00 1143 x 838	49.58 x 30.00 1259 x 762	5
A60HS3612GQRLP	60.25 x 36.31 x 12.00 1530 x 922 x 305	A60P36	A60P36G	57.00 x 33.00 1448 x 838	61.58 x 30.00 1564 x 762	5

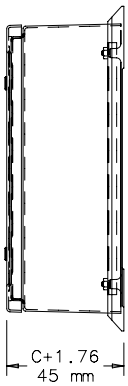
Purchase panels separately. Optional stainless steel, composite and aluminum panels available for most sizes. See General Accessories.

No additional "C" dimensions available.

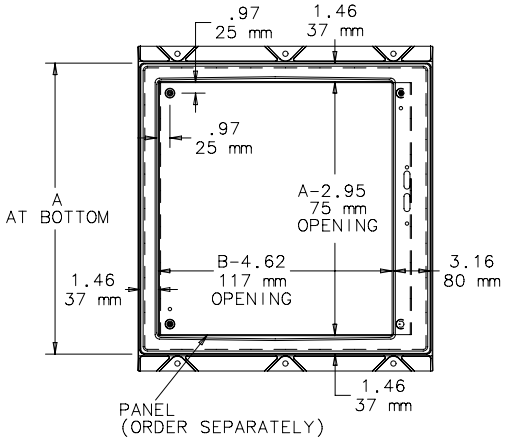
Fiberglass Disconect, Type 4X, 30 x 24 or Smaller Drawing



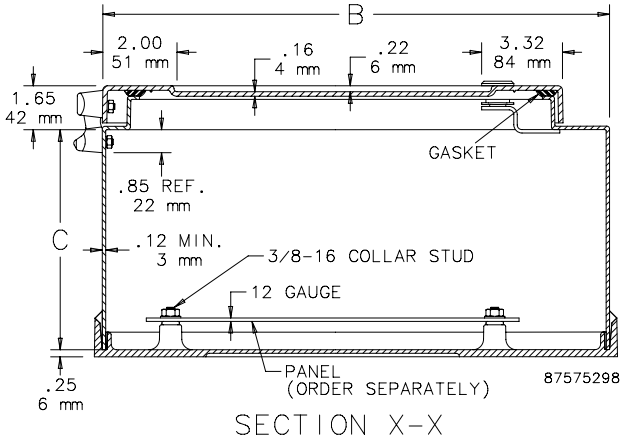
FRONT VIEW WITH DOOR



SIDE VIEW

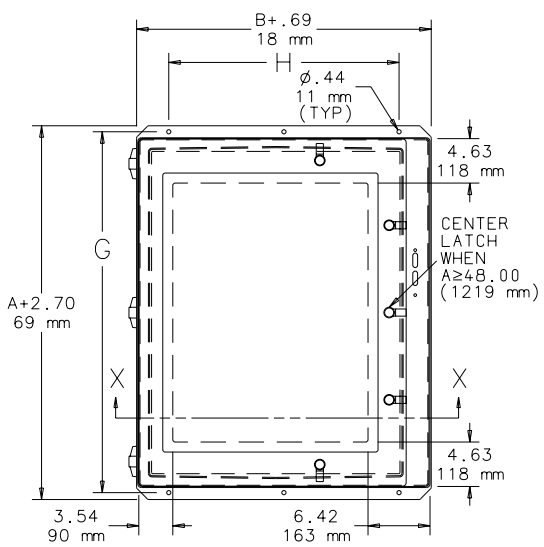


FRONT VIEW DOOR REMOVED

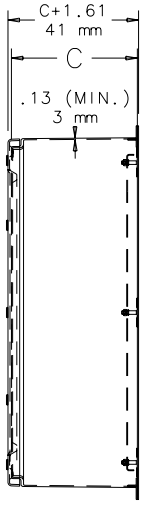


SECTION X-X

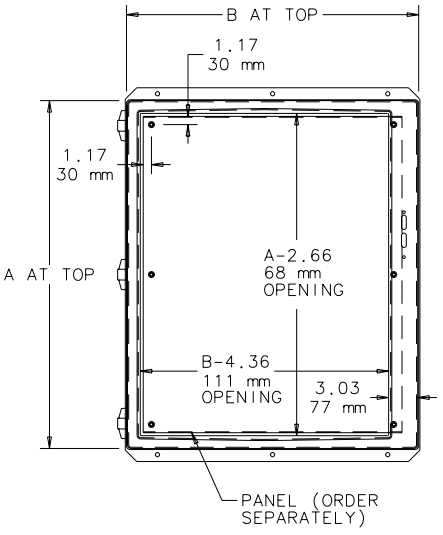
Fiberglass Disconnect, Type 4X, 36 x 30 or Larger Drawing



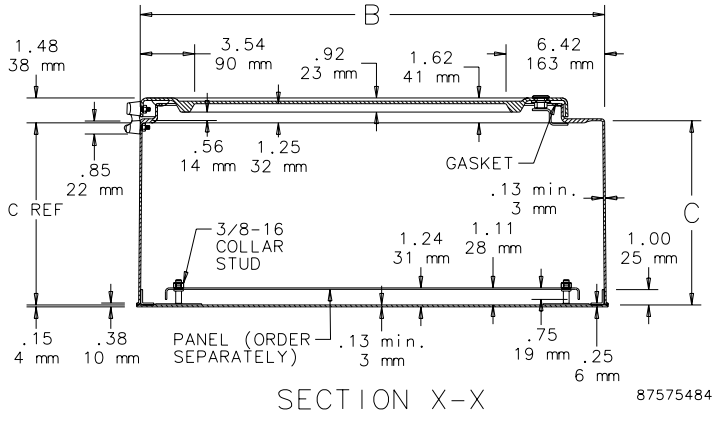
FRONT VIEW WITH DOOR



SIDE VIEW



FRONT VIEW DOOR REMOVED



SECTION X-X

87575484

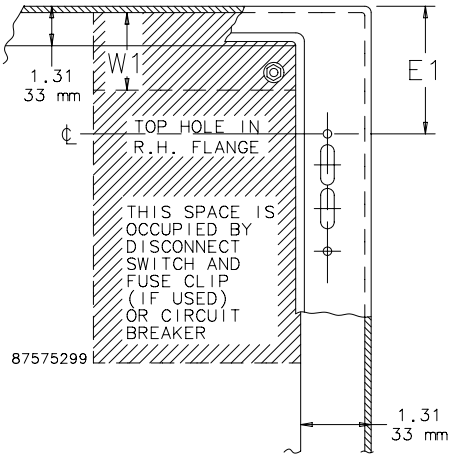
NOTE:
1. Large data pocket provision when A=30.00 (762mm) or more. Data pocket is furnished but not installed. Large data pocket is 12.00 x 12.00 (305mm x 305mm); small data pocket is 6.00 x 6.00 (152mm x 152mm).
2. Internal grounding provisions on the latch side(s) of the internal body Flange.

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown in Disconnect Mounting Space Diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 8.62 in. (219 mm) when A < 30.00 in. (768 mm) and C = 8.00 in. (203 mm), 10.00 in. (254 mm) or 12.00 in. (305 mm)
E1 = 11.62 in. (295 mm) when A > 30.00 in. (768 mm) and C = 12.00 in. (305 mm)
W1 = Wiring Space.

See Technical Information for wire bend space.
Refer to *National Electrical Code*® 2005 article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine whether wiring space is adequate.



Consult disconnect manufacturer for F1 and G1 dimensions.

LOW-PROFILE WALL-MOUNT AND FREE-STAND DISCONNECT ENCLOSURE, TYPE 12

SPECIFICATIONS

- .074-in., .098-in. or .121-in. steel
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- External formed body flange channels away liquids
- Heavy duty lifting eyes anchor into reinforced top on larger models
- Removable centerposts for easy panel installation
- Removable door with hidden hinges
- Rugged POWERGLUIDE handle; 2-point latch on enclosures up to 36 in. (914 mm); 3-point latch on enclosures 42 in. (1067 mm) and above
- Oil-resistant gasket
- Removable .127-in. thick steel panels mount on collar studs; purchase panels separately
- Master door is far right-hand door on all enclosures
- Defeater on master door requires a screwdriver to open
- Mechanical interlock activated by master door prevents slave doors from being opened first; doors can be closed in any order
- Preferred cutout on right flange provides mounting for most disconnect switches and circuit breakers
- Enclosures with three to five doors have three stiffeners on rear of body

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
IEC 60529, IP55

APPLICATION

Available in one- to four-door wall-mount and one- to five-door free-stand models, the larger wall-mount sizes accommodate more components and are ideal for applications with limited floor space. Free-stand enclosures are 48- and 60-in. high to provide a clear line of site above the enclosure.

FINISH

ANSI 61 gray polyester powder paint inside and out.
Optional panels have white or conductive finish.

ACCESSORIES

Electric Heaters, page 1236
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419
PANELITE Enclosure Lights, page 1393
Panels for A26 Low-Profile Type 12 Disconnect Enclosures, page 359
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A26M1, A26M2, A26MM

Standard Product **Low Profile Type 12 One-Door Disconnect Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Description	Body Thickness (in.)	Panel	Conductive Panel	Panel Qty.	Lifting Eyes
A30X1E2808	30.00 x 28.25 x 8.00	762 x 718 x 203	Wall-Mount	.074	A25P21	A25P21G	1	0
A30X1E2810	30.00 x 28.25 x 10.00	762 x 718 x 254	Wall-Mount	.074	A25P21	A25P21G	1	0
A36X1E2808	36.00 x 28.25 x 8.00	914 x 718 x 203	Wall-Mount	.074	A31P21	A31P21G	1	0
A36X1E2810	36.00 x 28.25 x 10.00	914 x 718 x 254	Wall-Mount	.074	A31P21	A31P21G	1	0
A42X1E2808	42.00 x 28.25 x 8.00	1067 x 718 x 203	Wall-Mount	.074	A37P21	A37P21G	1	0
A42X1E2810	42.00 x 28.25 x 10.00	1067 x 718 x 254	Wall-Mount	.074	A37P21	A37P21G	1	0
A48X1E4010	48.00 x 40.25 x 10.00	1219 x 1022 x 254	Free-Stand	.098	A42P33	A42P33G	1	2
A48X1E4024	48.00 x 40.25 x 24.00	1219 x 1022 x 610	Free-Stand	.098	A42P33	A42P33G	1	2
A48X1E4018	48.00 x 40.25 x 18.00	1220 x 1023 x 457	Free-Stand	.098	A42P33	A42P33G	1	2
A60X1E4008	60.00 x 40.25 x 8.00	1524 x 1022 x 203	Free-Stand	.098	A54P33	A54P33G	1	2
A60X1E4010	60.00 x 40.25 x 10.00	1524 x 1022 x 254	Free-Stand	.098	A54P33	A54P33G	1	2
A60X1E4018	60.00 x 40.25 x 18.00	1525 x 1023 x 457	Free-Stand	.098	A54P33	A54P33G	1	2
A60X1E4024	60.00 x 40.25 x 24.00	1525 x 1023 x 610	Free-Stand	.098	A54P33	A54P33G	1	2

Purchase panels separately.

Standard Product **Low Profile Type 12 Two-Door Disconnect Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Description	Body Thickness (in.)	Panel	Conductive Panel	Panel Qty.	Body Stiffener	Lifting Eyes
A30X2E5408	30.00 x 54.50 x 8.00	762 x 1384 x 203	Wall-Mount	.098	A25P48	A25P48G	1	0	0
A30X2E5410	30.00 x 54.50 x 10.00	762 x 1384 x 254	Wall-Mount	.098	A25P48	A25P48G	1	0	0
A36X2E5408	36.00 x 54.50 x 8.00	914 x 1384 x 203	Wall-Mount	.098	A31P48	A31P48G	1	0	0
A36X2E5410	36.00 x 54.50 x 10.00	914 x 1384 x 254	Wall-Mount	.098	A31P48	A31P48G	1	0	0
A42X2E5408	42.00 x 54.50 x 8.00	1067 x 1384 x 203	Wall-Mount	.098	A37P48	A37P48G	1	0	0
A42X2E5410	42.00 x 54.50 x 10.00	1067 x 1384 x 254	Wall-Mount	.098	A37P48	A37P48G	1	0	0
A48X2E7808	48.00 x 78.50 x 8.00	1219 x 1994 x 203	Free-Stand	.098	A42P72	A42P72G	1	0	2
A48X2E7810	48.00 x 78.50 x 10.00	1219 x 1994 x 254	Free-Stand	.098	A42P72	A42P72G	1	0	2
A48X2E7812	48.00 x 78.50 x 12.00	1219 x 1994 x 305	Free-Stand	.098	A42P72	A42P72G	1	0	2
A48X2E7818	48.00 x 78.50 x 18.00	1219 x 1994 x 457	Free-Stand	.098	A42P72	A42P72G	1	0	2
A48X2E7824	48.00 x 78.50 x 24.00	1219 x 1994 x 610	Free-Stand	.098	A42P72	A42P72G	1	0	2
A60X2E7808	60.00 x 78.50 x 8.00	1524 x 1994 x 203	Free-Stand	.098	A54P72	A54P72G	1	0	2
A60X2E7810	60.00 x 78.50 x 10.00	1524 x 1994 x 254	Free-Stand	.098	A54P72	A54P72G	1	0	2
A60X2E7818	60.00 x 78.50 x 18.00	1524 x 1995 x 457	Free-Stand	.098	A54P72	A54P72G	1	0	2
A60X2E7824	60.00 x 78.50 x 24.00	1524 x 1994 x 610	Free-Stand	.098	A54P72	A54P72G	1	0	2

Purchase panels separately.

Standard Product **Low Profile Type 12 Three-Door Disconnect Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Description	Body Thickness (in.)	Panel	Conductive Panel	Panel Qty.	Body Stiffener	Lifting Eyes
A30X3E8310	30.00 x 82.25 x 10.00	762 x 2089 x 254	Wall-Mount	.098	A25P21, A25P48	A25P21G, A25P48G	1, 1	0	2
A36X3E8310	36.00 x 82.25 x 10.00	914 x 2089 x 254	Wall-Mount	.098	A31P21, A31P48	A31P21G, A31P48G	1, 1	0	2
A42X3E8310	42.00 x 82.25 x 10.00	1067 x 2089 x 254	Wall-Mount	.098	A37P21, A37P48	A37P21G, A37P48G	1, 1	0	2
A48X3E11910	48.00 x 118.25 x 10.00	1219 x 3004 x 254	Free-Stand	.098	A42P33, A42P72	A42P33G, A42P72G	1, 1	3	2
A48X3E11912	48.00 x 118.25 x 12.00	1219 x 3004 x 305	Free-Stand	.098	A42P33, A42P72	A42P33G, A42P72G	1, 1	3	2
A48X3E11918	48.00 x 118.25 x 18.00	1219 x 3004 x 457	Free-Stand	.098	A42P33, A42P72	A42P33G, A42P72G	1, 1	3	2
A60X3E11910	60.00 x 118.25 x 10.00	1524 x 3004 x 254	Free-Stand	.098	A54P33, A54P72	A54P33G, A54P72G	1, 1	3	2
A60X3E11912	60.00 x 118.25 x 12.00	1524 x 3004 x 305	Free-Stand	.098	A54P33, A54P72	A54P33G, A54P72G	1, 1	3	2
A60X3E11918	60.00 x 118.25 x 18.00	1524 x 3004 x 457	Free-Stand	.098	A54P33, A54P72	A54P33G, A54P72G	1, 1	3	2
A60X3E11924	60.00 x 118.25 x 24.00	1524 x 3004 x 610	Free-Stand	.098	A54P33, A54P72	A54P33G, A54P72G	1, 1	3	2

Purchase panels separately.

Standard Product **Low Profile Type 12 Four-Door Disconnect Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Description	Body Thickness (in.)	Panel	Conductive Panel	Panel Qty.	Body Stiffener	Lifting Eyes
A42X4E10810	42.00 x 108.50 x 10.00	1067 x 2756 x 254	Wall-Mount	.121	A37P48	A37P48G	2	0	4
A48X4E15710	48.00 x 156.50 x 10.00	1219 x 3975 x 254	Free-Stand	.121	A42P72	A42P72G	2	3	4
A48X4E15712	48.00 x 156.50 x 12.00	1219 x 3975 x 305	Free-Stand	.121	A42P72	A42P72G	2	3	4
A48X4E15718	48.00 x 156.50 x 18.00	1219 x 3977 x 457	Free-Stand	.121	A42P72	A42P72G	2	3	4
A60X4E15710	60.00 x 156.50 x 10.00	1524 x 3975 x 254	Free-Stand	.121	A54P72	A54P72G	2	3	4
A60X4E15712	60.00 x 156.50 x 12.00	1524 x 3975 x 305	Free-Stand	.121	A54P72	A54P72G	2	3	4
A60X4E15716	60.00 x 156.50 x 16.00	1524 x 3975 x 406	Free-Stand	.121	A54P72	A54P72G	2	3	4
A60X4E15718	60.00 x 156.50 x 18.00	1524 x 3975 x 457	Free-Stand	.121	A54P72	A54P72G	2	3	4

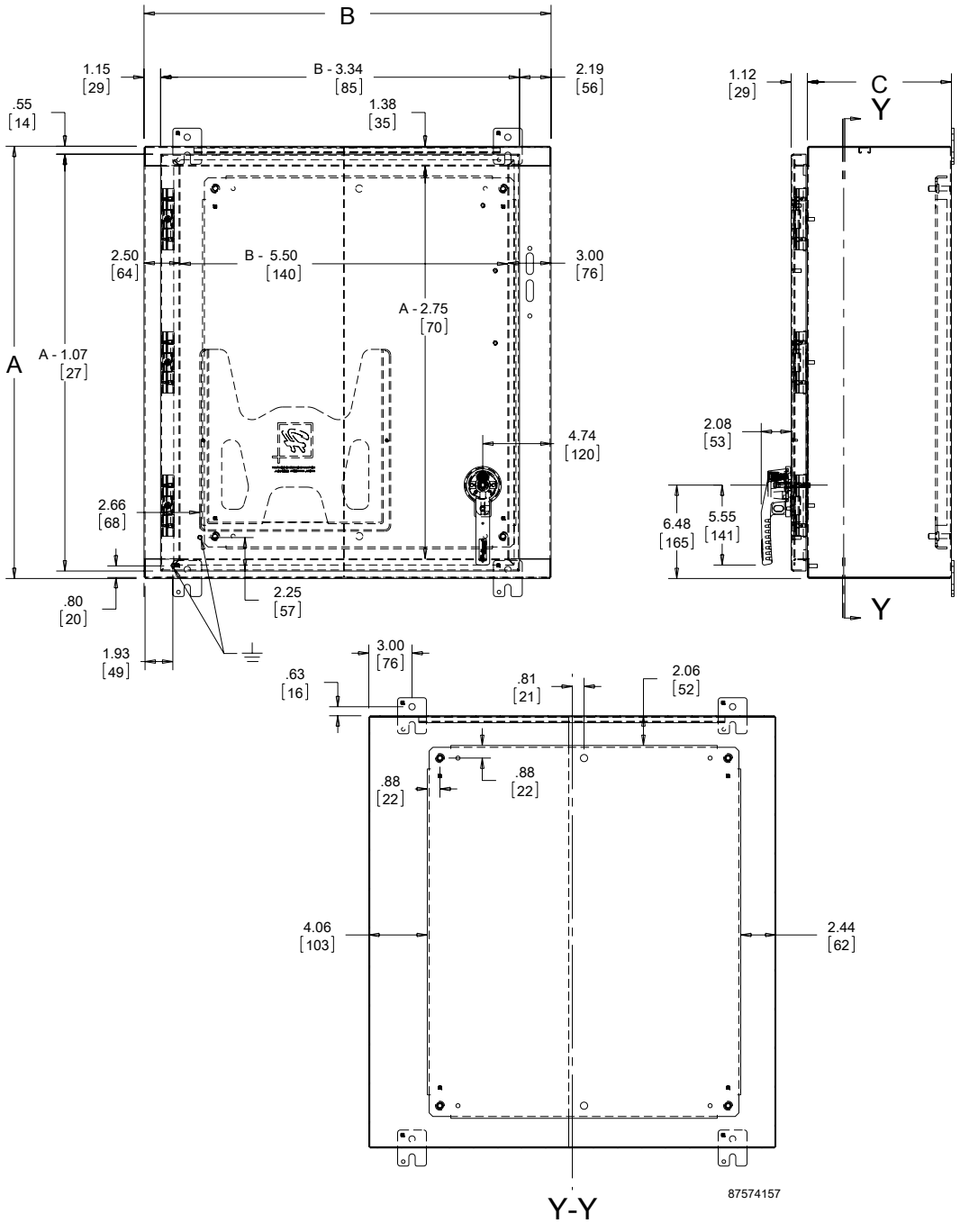
Purchase panels separately.

Standard Product **Low Profile Type 12 Five-Door Disconnect Enclosures**

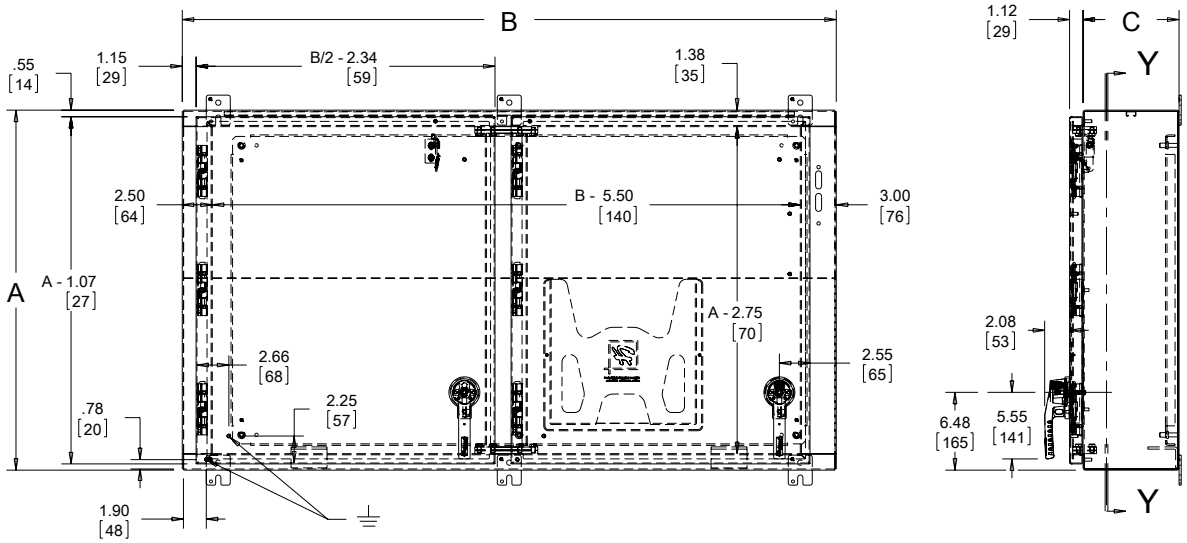
Catalog Number	AxBxC in.	AxBxC mm	Description	Body Thickness (in.)	Panel	Conductive Panel	Panel Qty.	Body Stiffener	Lifting Eyes
A48X5E19612	48.00 x 196.25 x 12.00	1219 x 4985 x 305	Free-Stand	.121	A42P33, A42P72	A42P33G, A42P72G	1, 2	3	4
A48X5E19618	48.00 x 196.25 x 18.00	1219 x 4985 x 457	Free-Stand	.121	A42P33, A42P72	A42P33G, A42P72G	1, 2	3	4
A60X5E19610	60.00 x 196.25 x 10.00	1524 x 4985 x 254	Free-Stand	.121	A54P33, A54P72	A54P33G, A54P72G	1, 2	3	4
A60X5E19612	60.00 x 196.25 x 12.00	1524 x 4985 x 305	Free-Stand	.121	A54P33, A54P72	A54P33G, A54P72G	1, 2	3	4
A60X5E19616	60.00 x 196.25 x 16.00	1524 x 4985 x 406	Free-Stand	.121	A54P33, A54P72	A54P33G, A54P72G	1, 2	3	8
A60X5E19618	60.00 x 196.25 x 18.00	1524 x 4985 x 457	Free-Stand	.121	A54P33, A54P72	A54P33G, A54P72G	1, 2	3	8

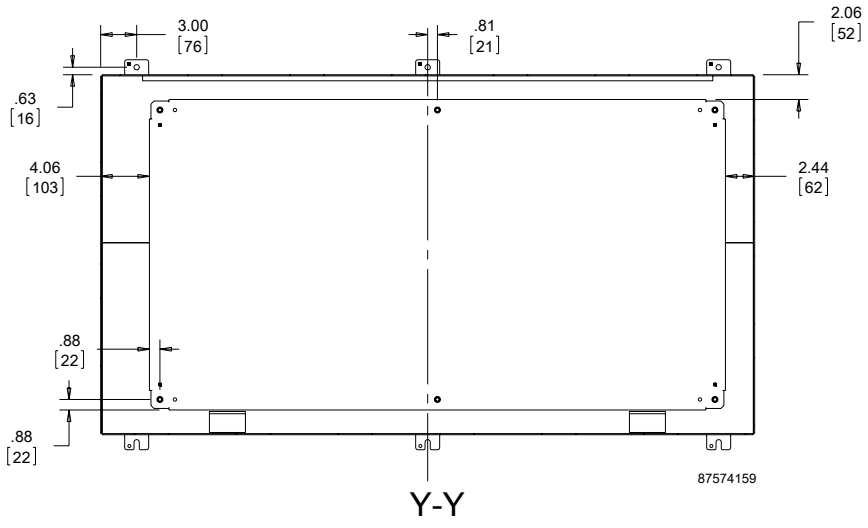
Purchase panels separately.

Single-Door Enclosures

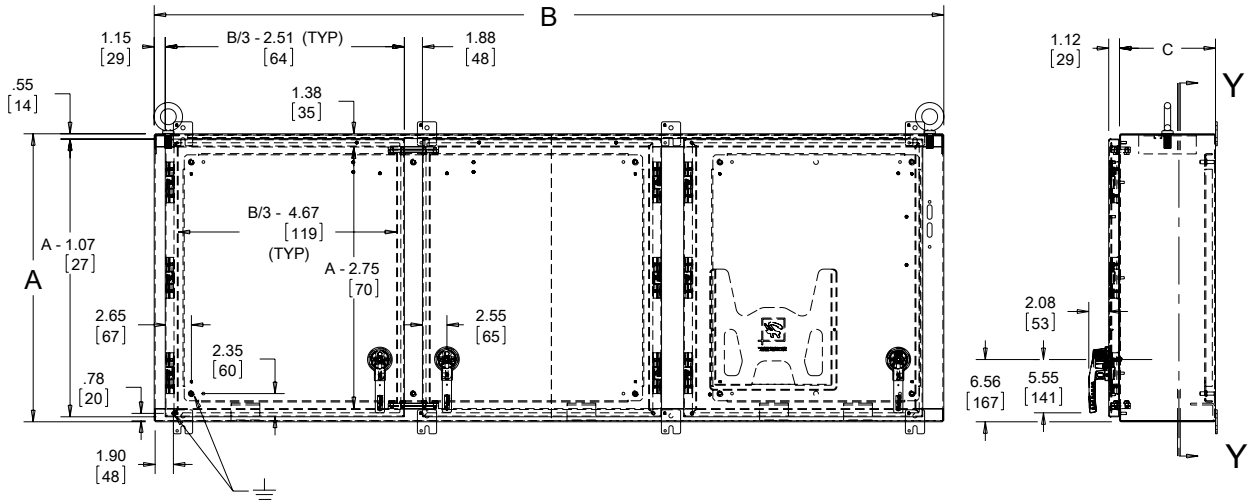


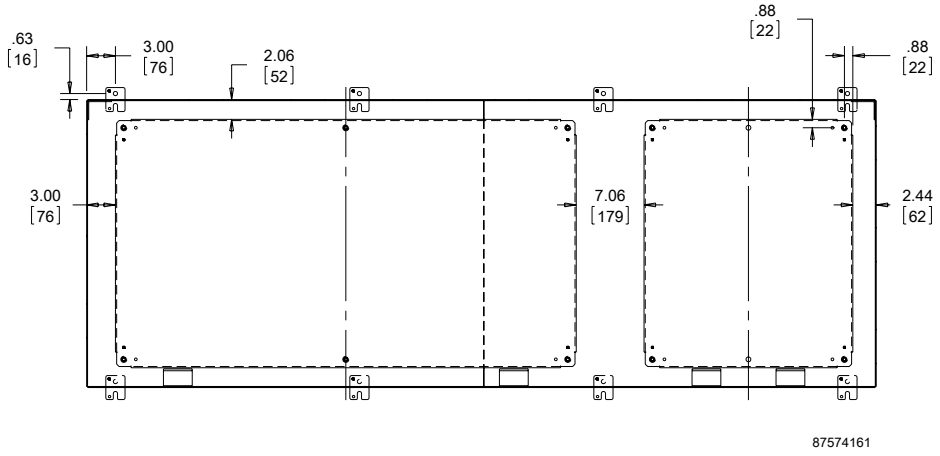
Two-Door Enclosure





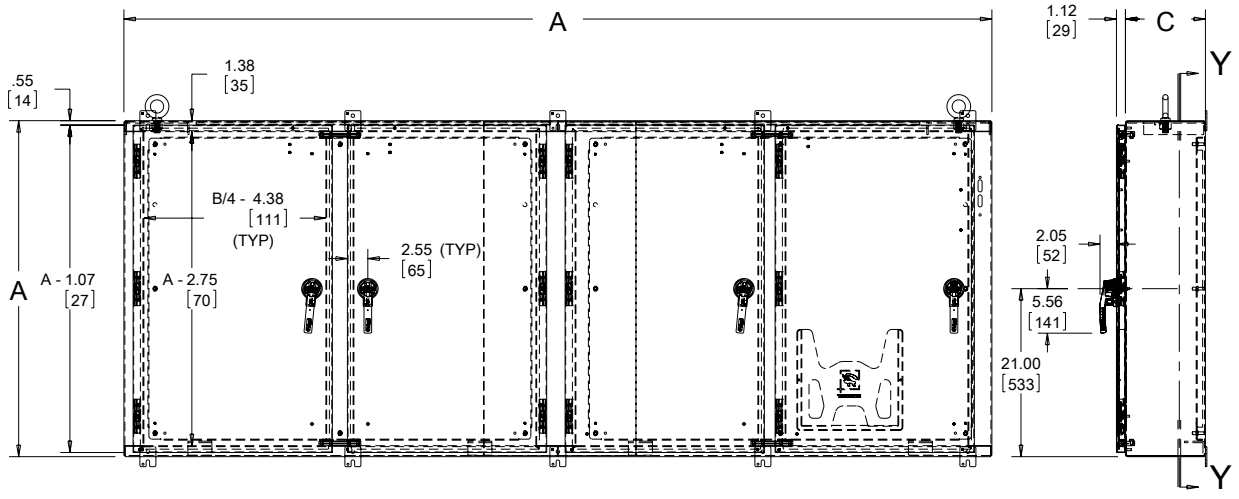
Three-Door Enclosure

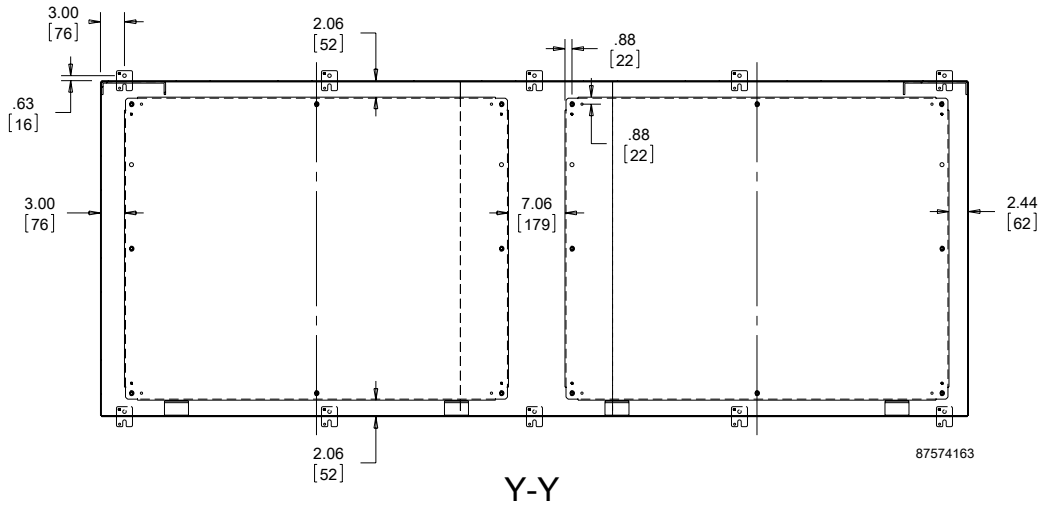




Y-Y

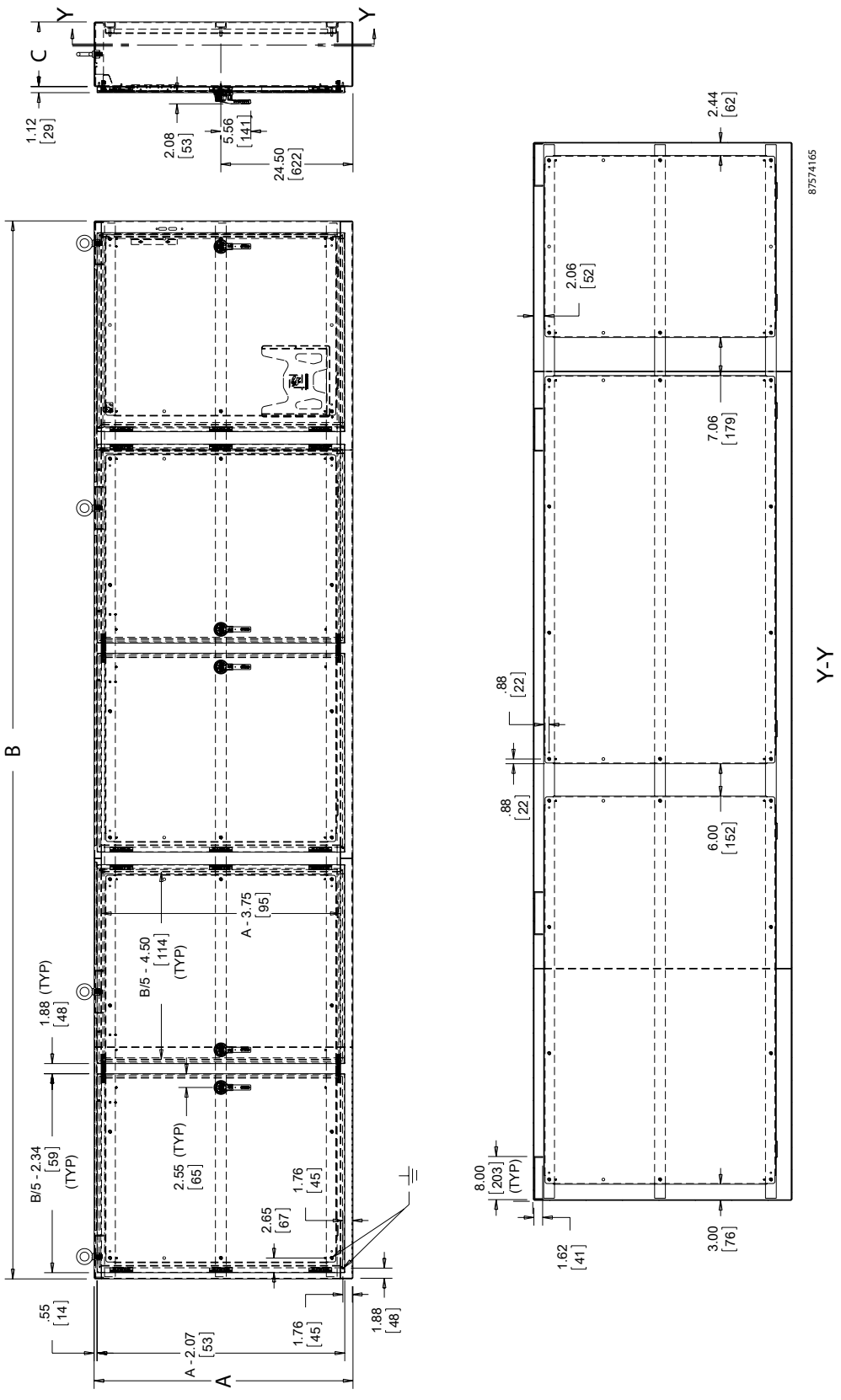
Four-Door Enclosure





Y-Y

Five-Door Enclosure



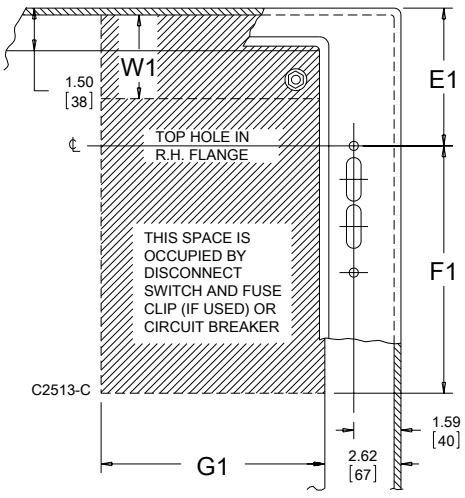
DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1 in Disconnect Mounting Space diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 4.75 in. (121 mm) when C = 8.00 in. (203 mm)
E1 = 7.09 in. (180 mm) when C =10.00 in. (254 mm)
E1 = 11.62 in. (294 mm) when C = 12.00 in. (305 mm)
E1 = 11.62 in. (294 mm) when C = 16.00 in. (406 mm)
E1 = 18.38 in. (467 mm) for A60SA3812A24LP
W1 = Wiring Space.

See Technical Information for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE 2005*** article 430.10(B) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.



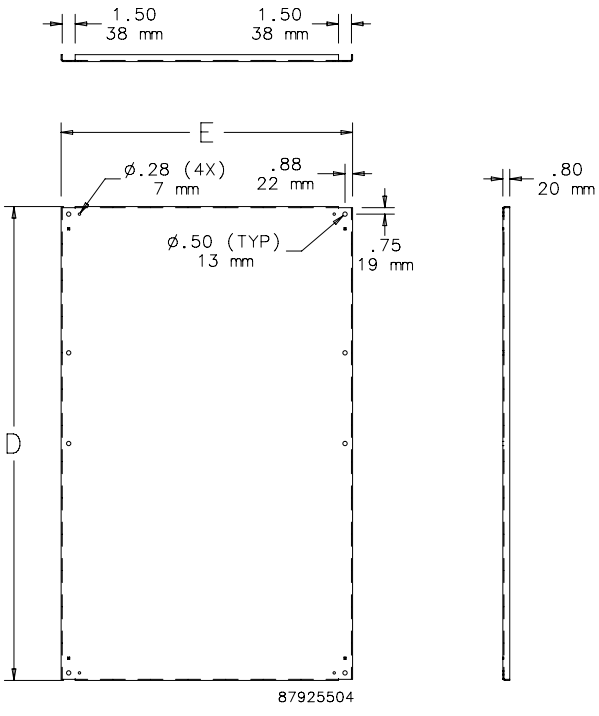
Consult disconnect manufacturer for F1 and G1 dimensions.

PANELS FOR A26 LOW-PROFILE TYPE 12 DISCONNECT ENCLOSURES

Optional panels for low-profile Type 12 enclosures (Bulletin A26) are .121-in. steel. Finish is white polyester powder paint or a conductive, corrosion-resistant coating. Mounting hardware included with enclosure.

BULLETIN: A26P

Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)	Fits Bay
A25P21	Painted steel	25.88 x 21.75	657 x 552	1
A31P21	Painted steel	31.88 x 21.75	810 x 552	1
A31P21G	Conductive	31.88 x 21.75	810 x 552	1
A37P21	Painted steel	37.88 x 21.75	962 x 552	1
A37P21G	Conductive	37.88 x 21.75	962 x 552	1
A42P33	Painted steel	42.88 x 33.75	1089 x 857	1
A42P33G	Conductive	42.88 x 33.75	1089 x 857	1
A54P33	Painted steel	54.88 x 33.75	1394 x 857	1
A54P33G	Conductive	54.88 x 33.75	1394 x 857	1
A25P48	Painted steel	25.88 x 48.00	657 x 1219	2
A25P48G	Conductive	25.88 x 48.00	657 x 1219	2
A31P48	Painted steel	31.88 x 48.00	810 x 1219	2
A31P48G	Conductive	31.88 x 48.00	810 x 1219	2
A37P48	Painted steel	37.88 x 48.00	962 x 1219	2
A37P48G	Conductive	37.88 x 48.00	962 x 1219	2
A42P72	Painted steel	42.88 x 72.00	1089 x 1829	2
A42P72G	Conductive	42.88 x 72.00	1089 x 1829	2
A54P72	Painted steel	54.88 x 72.00	1394 x 1829	2
A54P72G	Conductive	54.88 x 72.00	1394 x 1829	2



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WATERSHED DISCONNECT ENCLOSURE, TYPE 4X

INDUSTRY STANDARDS

Mounting brackets required to meet UL/cUL external mounting requirement.

UL 508A Listed; Type 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12; File No. E61997

NSF 169
NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

Specifically designed for disconnect applications in sanitary washdown production environments, such as food and beverage manufacturing. Hoffman WATERSHED Disconnect Enclosures feature a sloped top, sloped door edges, bullet-style hinges and additional unique features that facilitate washdown runoff.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by door edges
- Hinged side of door has provisions to allow direct flushing of hinge area
- 20-degree sloped top
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom
- Slanted flange trough collar along the top edge of the enclosure opening
- Stainless steel quarter-turn latches with flush slotted insert
- Seamless foam-in-place gasket
- Self-grounding latch system
- Bonding provision on door; grounding stud on body
- Panel studs fit optional NEMA size panels
- Preferred cutout on right flange provides mounting for most disconnect operators
- Mounting holes in back of body for direct mounting or for optional stand-off kit or external mounting brackets
- Furnished hardware kit consists of panel mounting nuts, grounding hardware and sealing washers for wall-mounting holes

FINISH

Sides, top, bottom and door have a #4 brushed finish.

ACCESSORIES

Mounting Bracket Kit, 304, page 362
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Stand-Off Kit, page 362
Padlocking Handle Kit, page 362
Padlocking Latch Kit, page 362

MODIFICATION AND CUSTOMIZATION

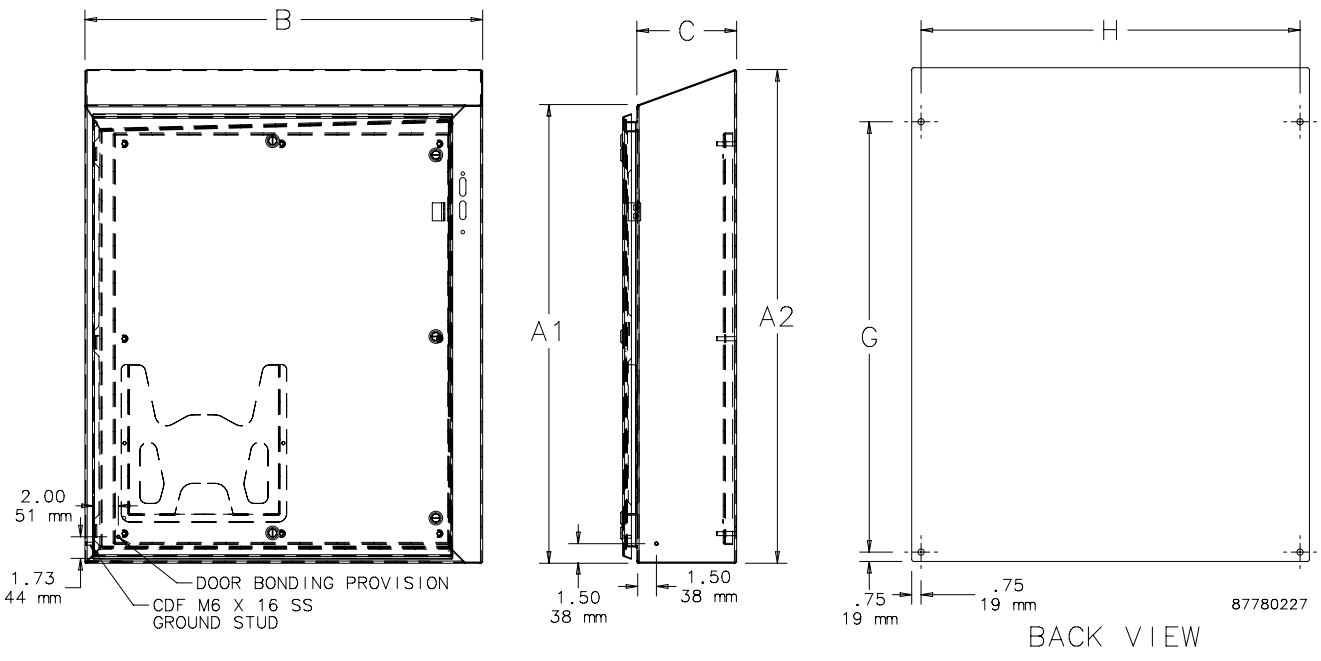
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: WS1D

Standard Product

Catalog Number	AxBxC in./mm	A1 in./mm	A2 in./mm	B in./mm	C in./mm	G in./mm	H in./mm	Latch Qty.	Panel	Conductive Panel
WS24HS2508SS	24.00 x 25.00 x 8.00 610 x 635 x 203	24.53 623	27.44 697	25.89 658	8.00 203	22.50 572	24.39 620	4	A24P24	A24P24G
WS30HS2508SS	30.00 x 25.00 x 8.00 762 x 635 x 203	30.53 775	33.44 849	25.89 658	8.00 203	28.50 724	24.39 610	4	A30P24	A30P24G
WS36HS3108SS	36.00 x 31.00 x 8.00 914 x 787 x 203	36.70 932	39.58 1005	31.89 810	8.00 203	34.50 876	30.39 772	5	A36P30	A36P30G
WS48HS3716SS	48.00 x 37.00 x 16.00 1219 x 940 x 406	48.86 1241	54.66 1388	37.89 962	16.00 406	46.50 1181	36.39 924	5	A48P36	A48P36G
WS60HS3716SS	60.00 x 37.00 x 16.00 1524 x 940 x 406	60.87 1546	66.66 1693	37.89 962	16.00 406	58.50 1486	36.39 924	5	A60P36	A60P36G

Purchase panels separately. Optional Stainless steel, composite and aluminum panels available for most sizes.

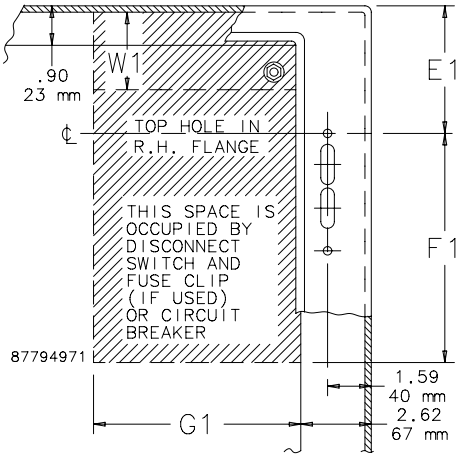


DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1 in diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 4.75 in. (121 mm) when C = 8.00 in. (203 mm)
E1 = 11.62 in. (294 mm) when C = 16.00 in. (406 mm)
W1 = Wiring space.

See Technical Information for wire bend space.
Refer to *National Electrical Code*®, 2005 article 430-10(B) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.



Consult disconnect manufacturer for F1 and G1 dimensions.

MOUNTING BRACKET KIT, 304

Type 304 stainless steel brackets are field-installable. Brackets maintain Type 4X rating. All hardware is included. Four brackets per kit.

Top brackets must be mounted to the sides of enclosure.

BULLETIN: A80

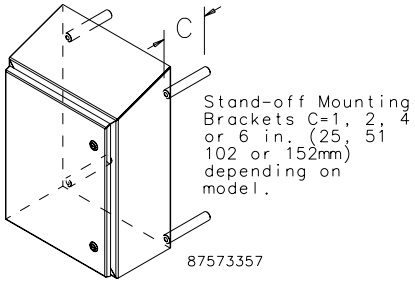
Catalog Number	Description
CMFKSS	Type 304 stainless steel mounting bracket kit

STAND-OFF KIT

Stand-offs provide space between wall-mount enclosure and wall for better washdown accessibility. Maintains Type 4X rating. Sealing washers included. Four stand-offs per kit.

BULLETIN: WSY

Catalog Number	C (in.)	C (mm)
WSS0K1SS	1.00	25
WSS0K2SS	2.00	51
WSS0K4SS	4.00	102
WSS0K6SS	6.00	152



PADLOCKING HANDLE KIT

Type 316 stainless steel padlocking handle for use on Hoffman WATERSHED Wall-Mount Enclosures. Maintains Type 4X rating.

BULLETIN: WSY

Catalog Number	Description
WSHPL	Stainless Steel Padlocking Handle

PADLOCKING LATCH KIT

Type 304 stainless steel padlocking latch for use on Hoffman WATERSHED Wall-Mount Enclosures. Maintains Type 4X rating.

BULLETIN: WSY

Catalog Number	Description
WSLPL	Padlocking Latch Kit

Notes

FIXED-DEPTH ALLEN-BRADLEY CUTOUT OVERVIEW

APPLICATION

Enclosures having the "Allen-Bradley" cutout are ONLY compatible with fixed-depth Allen-Bradley devices up to 1494F Series C. This cutout is ONLY found on A22 Enclosures and on adapter plates in the ABF Adapter Kit.

ORDERING

The disconnect switch, operating handle, and operating mechanism must be ordered separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available. Check the enclosure dimension drawings to make sure the chosen disconnect switch will fit in the enclosure.

A complete assembly consists of:

1. An enclosure
2. Guide bracket(s) and door catch welded to door
3. Locking bar(s) for door hardware
4. Spacers and screws to support disconnect to panel
5. Instructions to locate and install disconnects

ALLEN-BRADLEY 1494 CUTOUT DISCONNECT ENCLOSURE, TYPE 12

APPLICATION

These enclosures house Allen-Bradley Bulletin 1494F flange-mount disconnect switches.

Furnished with Enclosure

1. Guide bracket(s) and door catch welded to door
2. Locking bar(s) for door hardware
3. Spacers and screws to support disconnect to panel
4. Instructions to locate and install disconnects

SPECIFICATIONS

- 14 gauge steel
- External welded-on mounting brackets for easy installation
- External formed body flange channels away liquids
- Removable door with continuous hinge
- Type 12 rated door gasket
- Collar studs for mounting optional panels
- Holes in body and door for mounting disconnect operating handle, operating mechanism and door hardware
- Data pocket is high impact thermoplastic
- Guide bracket(s) and door catch welded to door
- Includes locking bar(s) for door hardware, spacers and screws to support disconnect panel
- Installation instructions provided

FINISH

Body: White inside with ANSI 61 gray finish outside.
Door: ANSI 61 gray inside and outside.

ACCESSORIES

Blank Adapter Plates, Mild Steel, page 443
Electric Heaters, page 1236
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A22

INDUSTRY STANDARDS

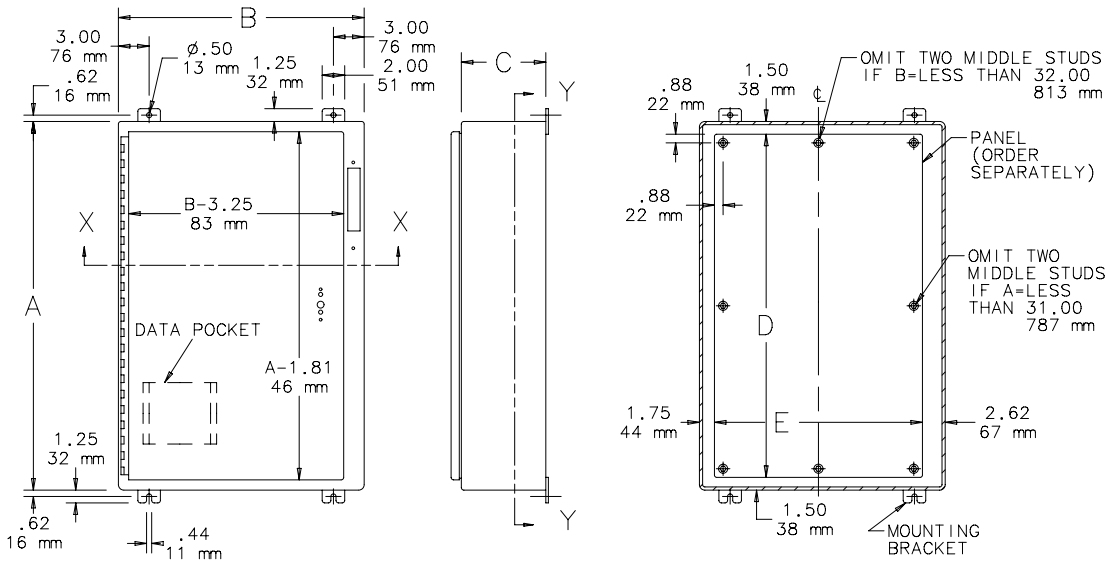
UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

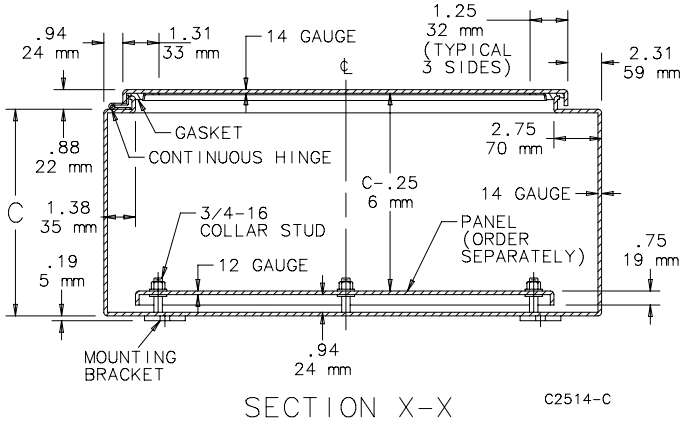
NEMA/EEMAC Type 12, 13
CSA File No. 42186: Type 12
IEC 60529, IP65

Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	Data Pocket Size in./mm
A24AB2210LP	24.00 x 21.38 x 10.00 610 x 543 x 254	A24P20	A24P20G	21.00 x 17.00 533 x 432	6.00 x 6.00 152 x 152
A24AB2610LP	24.00 x 25.38 x 10.00 610 x 645 x 254	A24P24	A24P24G	21.00 x 21.00 533 x 533	6.00 x 6.00 152 x 152
A30AB2210LP	30.00 x 21.38 x 10.00 762 x 543 x 254	A30P20	A30P20G	27.00 x 17.00 686 x 432	6.00 x 6.00 152 x 152
A30AB2610LP	30.00 x 25.38 x 10.00 762 x 645 x 254	A30P24	A30P24G	27.00 x 21.00 686 x 533	12.00 x 12.00 305 x 305
A36AB2610LP	36.00 x 25.38 x 10.00 914 x 645 x 254	A36P24	A36P24G	33.00 x 21.00 838 x 533	12.00 x 12.00 305 x 305
A36AB3210LP	36.00 x 31.38 x 10.00 914 x 797 x 254	A36P30	A36P30G	33.00 x 27.00 838 x 686	12.00 x 12.00 305 x 305
A42AB3210LP	42.00 x 31.38 x 10.00 1067 x 797 x 254	A42P30	A42P30G	39.00 x 27.00 991 x 686	6.00 x 6.00 152 x 152
A42AB3810LP	42.00 x 37.38 x 10.00 1067 x 949 x 254	A42P36	A42P36G	39.00 x 33.00 991 x 838	12.00 x 12.00 305 x 305
A48AB3810LP	48.00 x 37.38 x 10.00 1219 x 949 x 254	A48P36	A48P36G	45.00 x 33.00 1143 x 838	12.00 x 12.00 305 x 305
A60AB3810LP	60.00 x 37.38 x 10.00 1524 x 949 x 254	A60P36	A60P36G	57.00 x 33.00 1448 x 838	12.00 x 12.00 305 x 305
A36AB3212LP	36.00 x 31.38 x 12.00 914 x 797 x 305	A36P30	A36P30G	33.00 x 27.00 838 x 686	12.00 x 12.00 305 x 305
A42AB3212LP	42.00 x 31.38 x 12.00 1067 x 797 x 305	A42P30	A42P30G	39.00 x 27.00 991 x 686	6.00 x 6.00 152 x 152
A42AB3812LP	42.00 x 37.38 x 12.00 1067 x 949 x 305	A42P36	A42P36G	39.00 x 33.00 991 x 838	12.00 x 12.00 305 x 305
A48AB3812LP	48.00 x 37.38 x 12.00 1219 x 949 x 305	A48P36	A48P36G	45.00 x 33.00 1143 x 838	12.00 x 12.00 305 x 305
A60AB3812LP	60.00 x 37.38 x 12.00 1524 x 949 x 305	A60P36	A60P36G	57.00 x 33.00 1448 x 838	12.00 x 12.00 305 x 305
A48AB3816LP	48.00 x 37.38 x 16.00 1219 x 949 x 406	A48P36	A48P36G	45.00 x 33.00 1143 x 838	12.00 x 12.00 305 x 305
A60AB3816LP	60.00 x 37.38 x 16.00 1524 x 949 x 406	A60P36	A60P36G	57.00 x 33.00 1448 x 838	12.00 x 12.00 305 x 305

Purchase panels separately.


B
3.00
76 mm
.62
16 mm
Ø.50
13 mm
1.25
32 mm
3.00
76 mm
2.00
51 mm
C
Y
X
B-3.25
83 mm
A
DATA POCKET
A-1.81
46 mm
1.25
32 mm
.62
16 mm
.44
11 mm
.88
22 mm
1.50
38 mm
OMIT TWO MIDDLE STUDS
IF B=LESS THAN 32.00
813 mm
PANEL
(ORDER
SEPARATELY)
.88
22 mm
OMIT TWO
MIDDLE STUDS
IF A=LESS
THAN 31.00
787 mm
D
E
1.75
44 mm
2.62
67 mm
1.50
38 mm
MOUNTING
BRACKET
SECTION Y-Y


.94
24 mm
1.31
33 mm
14 GAUGE
1.25
32 mm
(TYPICAL
3 SIDES)
2.31
59 mm
GASKET
CONTINUOUS HINGE
2.75
70 mm
.88
22 mm
C-.25
6 mm
14 GAUGE
C
1.38
35 mm
3/4-16
COLLAR STUD
PANEL
(ORDER
SEPARATELY)
.75
19 mm
.19
5 mm
12 GAUGE
MOUNTING
BRACKET
.94
24 mm
SECTION X-X
C2514-C

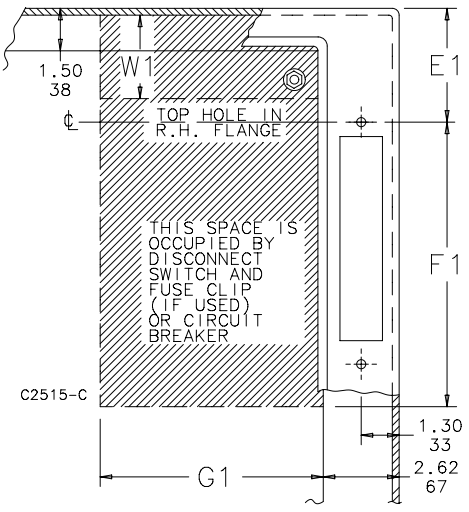
DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 6.75 in. (171 mm) when C = 10.00 in. (254 mm)
E1 = 9.50 in. (241 mm) when C = 12.00 in. (305 mm) except enclosures for 200 A switches)
E1 = 9.50 in. (241 mm) when C = 16.00 in. (406 mm)
W1 = Wiring Space

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

PREFERRED-CUTOUT OVERVIEW

APPLICATION

Enclosures having the preferred cutout are sized for use with up to 200A disconnect switches and up to 400A circuit breakers unless otherwise specified. The preferred cutout accepts the smaller operating handle whose mounting hole centers are 4.688 in. apart. Preferred cutouts are standard in mild steel wall-mount enclosures, modular enclosures and some select large mild steel enclosures. They are also present on all standard stainless steel offerings. 400 A (or greater) disconnect switches and 600 A (or greater) circuit breakers require the "Large" or "High Amp" cutout. This cutout accepts the larger operating handle whose mounting hole centers are 6.500-in. apart. This large cutout is only available on PROLINE-DD Disconnect Packages and Type 1 Free-Stand Enclosures.

Operator adapter for preferred cutouts must be ordered separately to be used with A21S, A28S4, A4S and WS2D enclosures. Preferred cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494U universal disconnect switches with flange-mount handles for either variable-depth or cable-operated mechanisms
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable-depth, flange-mount, molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange-mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

Allen-Bradley Bulletin 1494V-R1, -R2 and -W2 operating handles and Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators will NOT fit these enclosures.

ABB Controls flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

Eaton Cutler-Hammer Type C361 flange-mount variable-depth operating mechanisms with disconnect switches and Type C371 flange-mount variable-depth operating mechanisms for circuit breakers.

General Electric Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX cable operators for circuit breakers.

Siemens ITE MAX FLEX® flange-mount variable-depth operating handles for circuit breakers.

Schneider Square D® Class 9422 disconnect switches with flange-mount variable-depth operating mechanisms or cable mechanisms and Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TG1 or TG2 devices.

ORDERING

Order the disconnect switch, operating handle and operating mechanism separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

FREE-STAND DISCONNECT ENCLOSURE, TYPE 1

INDUSTRY STANDARDS

UL508A Listed; Type 1; File No. E61997
cUL Listed per CSA C22.2 No. 14; Type 1; File No. E61997

NEMA/EEMAC Type 1
IEC 60529 IP30

APPLICATION

Free-Stand Disconnect Enclosures, Type 1, are an economical way to protect electrical and electronic equipment in applications that do not require extensive environmental protection.

SPECIFICATIONS

- 14 gauge steel body and door; 12 gauge back covers
- 4-in. high 10 gauge steel integral lifting base
- Modified preferred disconnect cutout
- Heights from 60 in. to 84 in. Usable height inside cabinet 4 in. less than nominal height.
- Sturdy 7 gauge lifting tabs
- Flush doors
- 3-point latch with heavy-duty handle
- Screwdriver defeater in handle on master door
- Padlock provision in handle
- Predrilled holes in lifting base provide bolt-down capability
- Bonding provision on each door
- Studs included for mounting optional panels on threaded bolts
- Optional rack angles mount to top and bottom of front flanges

FINISH

RAL 7035 light gray polyester powder paint inside and outside. Optional panels have white or conductive finish.

ACCESSORIES

Panels for Free-Stand, Type 1 Two-Door Enclosures, page 1337
HF Side-Mount Filter Fans, page 1168
Compact Axial Fans, page 1202
PANELITE Enclosure Lights, page 1393

MODIFICATION AND CUSTOMIZATION

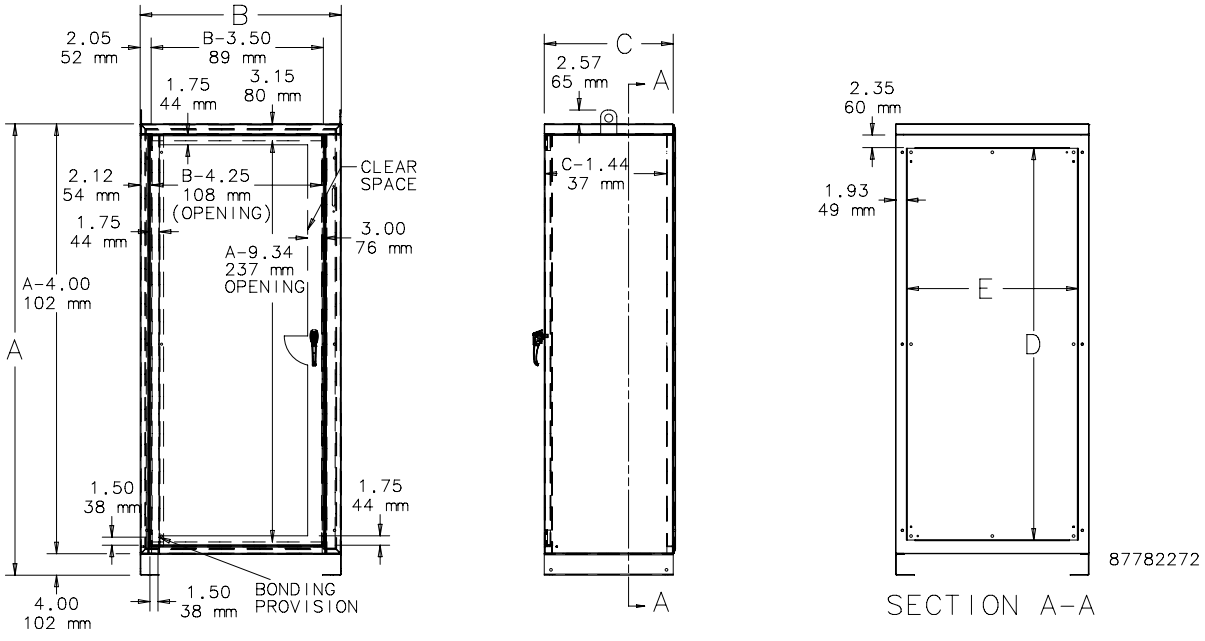
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A38D

Standard Product **Free-Stand Type 1 Large One-Door Disconnect Enclosures**

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	Use Rack Angle
A60XN2712FSLP	60.00 x 27.00 x 12.00 1524 x 686 x 305	A49P21N	A49P21NG	49.16 x 21.50 1249 x 546	ARA6019THG
A60XN2718FSLP	60.00 x 27.00 x 18.00 1524 x 686 x 457	A49P21N	A49P21NG	49.16 x 21.50 1249 x 546	ARA6019THG
A60XN2724FSLP	60.00 x 27.00 x 24.00 1524 x 686 x 610	A49P21N	A49P21NG	49.16 x 21.50 1249 x 546	ARA6019THG
A60XN3718FSLP	60.00 x 37.00 x 18.00 1524 x 940 x 457	A49P32N	A49P32NG	49.16 x 32.00 1249 x 813	ARA6019THG
A72XN2718FSLP	72.00 x 26.00 x 18.00 1829 x 660 x 457	A61P21N	A61P21NG	61.16 x 21.50 1553 x 546	ARA7219THG
A72XN3718FSLP	72.00 x 37.00 x 18.00 1829 x 940 x 457	A61P32N	A61P32NG	61.16 x 32.00 1553 x 813	ARA7219THG
A72XN3724FSLP	72.00 x 37.00 x 24.00 1829 x 940 x 610	A61P32N	A61P32NG	61.16 x 32.00 1553 x 813	ARA7219THG
A84XN2718FSLP	84.00 x 26.00 x 18.00 2134 x 660 x 457	A73P21N	A73P21NG	73.16 x 21.50 1858 x 546	ARA8419THG
A84XN3724FSLP	84.00 x 37.00 x 24.00 2134 x 940 x 610	A73P32N	A73P32NG	73.16 x 32.00 1858 x 813	ARA8419THG

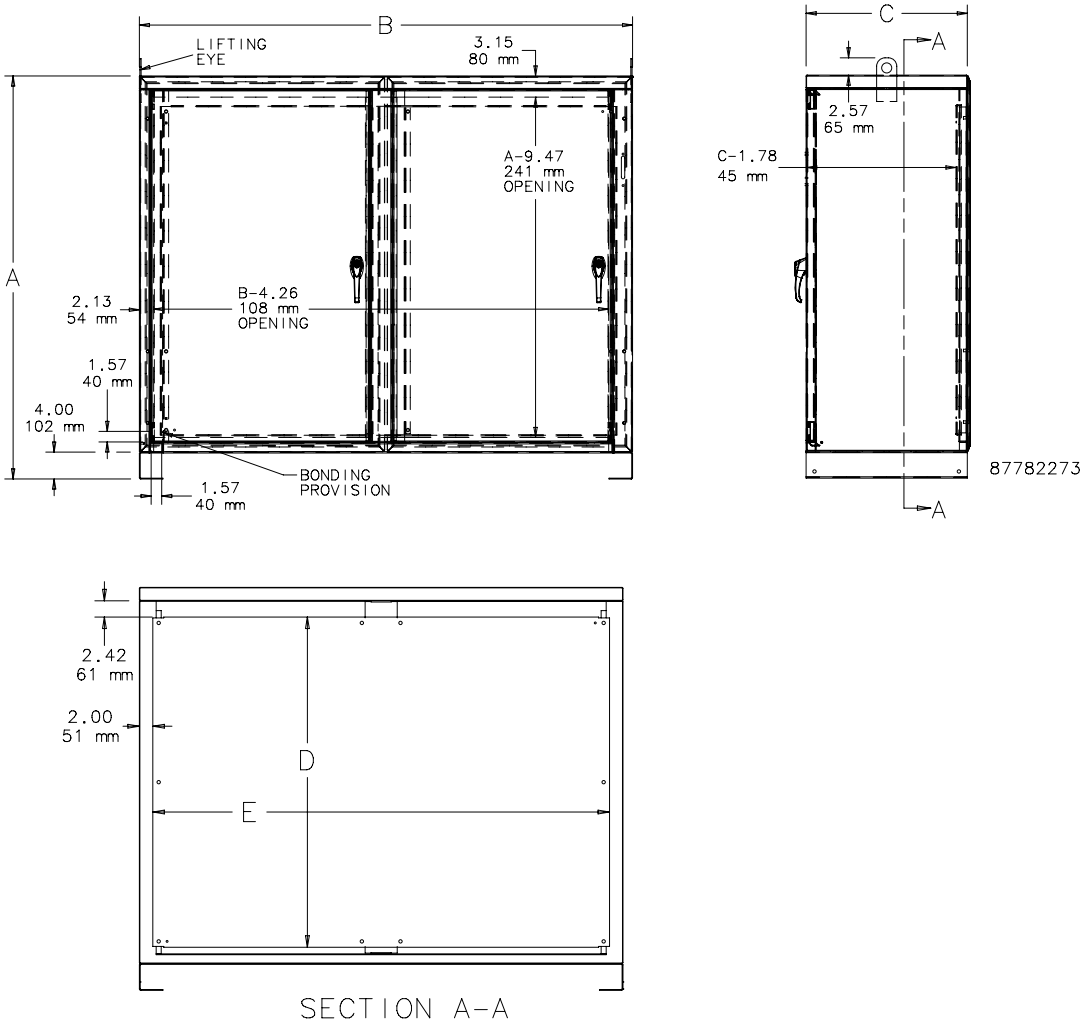
Purchase panels separately.



Standard Product **Free-Stand Type 1 Large Two-Door Disconnect Enclosures**

Catalog Number	AxBxC in./mm	Panel	Conductive Panel`	Panel Size D x E in./mm	Use Rack Angle
A60XN5312FSLP	60.00 x 53.00 x 12.00 1524 x 1346 x 305	A49P48N	A49P48NG	49.16 x 48.00 1249 x 1219	ARA6019THG
A60XN5318FSLP	60.00 x 53.00 x 18.00 1524 x 1346 x 457	A49P48N	A49P48NG	49.16 x 48.00 1249 x 1219	ARA6019THG
A60XN7324FSLP	60.00 x 73.00 x 24.00 1524 x 1854 x 610	A49P68N	A49P68NG	49.16 x 68.00 1249 x 1727	ARA6019THG
A72XN7318FSLP	72.00 x 73.00 x 18.00 1829 x 1854 x 457	A61P68N	A61P68NG	61.16 x 68.00 1553 x 1727	ARA7219THG
A72XN7324FSLP	72.00 x 73.00 x 24.00 1829 x 1854 x 610	A61P68N	A61P68NG	61.16 x 68.00 1553 x 1727	ARA7219THG
A84XN7318FSLP	84.00 x 73.00 x 18.00 2134 x 1854 x 457	A73P68N	A73P68NG	73.16 x 68.00 1858 x 1727	ARA8419THG
A84XN7324FSLP	84.00 x 73.00 x 24.00 2134 x 1854 x 610	A73P68N	A73P68NG	73.16 x 68.00 1858 x 1727	ARA8419THG

Purchase panels separately.



DISCONNECT MOUNTING SPACE

Disconnect is located 11.62 in. from outside top of enclosure. Wiring space is available when disconnect is installed in the enclosure.

See Technical Information section for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.

GASKET KITS

Apply self-adhesive strip gaskets for gasketed NEMA 1 solution. Each kit includes sufficient gasket for any one- or two-door enclosure. Choose kit by number of doors.

BULLETIN: A38P

Catalog Number	Description
A38GSKT	For one-door enclosures
A38GSKT2	For two-door enclosures

PROLINE-DD DISCONNECT ENCLOSURE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File Number 42186: Type 12
VDE IP55
IEC 60529, IP55

APPLICATION

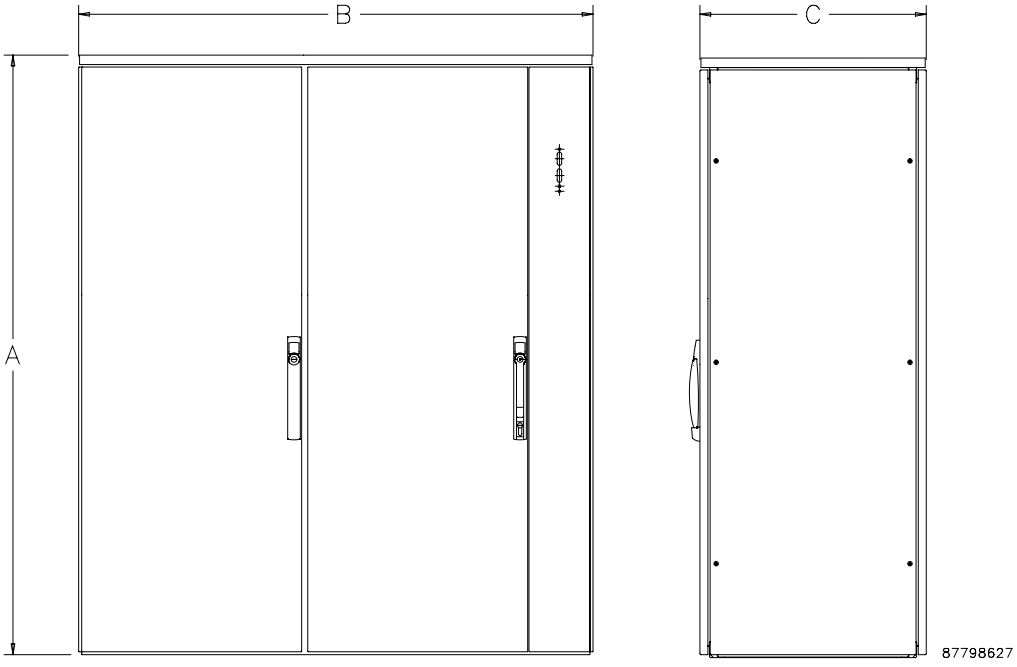
For a modular disconnect system with application flexibility, choose a PROLINE-DD Modular Enclosure. These two-door packages and their components are compatible with any of the standard flange-mounted disconnect switches and mechanisms described in the Preferred Cutout Overview section.

BULLETIN: P20, P20DC, P21

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Nominal Size (in.)	Nominal Size (mm)	Cutout Provision
PTDDC16124	62.99 x 47.24 x 15.75	1600 x 1200 x 400	62.99 x 47.24 x 15.75	1600 x 1200 x 400	Small
PTDDC16125	62.99 x 47.24 x 19.69	1600 x 1200 x 500	62.99 x 47.24 x 19.69	1600 x 1200 x 500	Small
PTDDC16126	62.99 x 47.24 x 23.62	1600 x 1200 x 600	62.99 x 47.24 x 23.62	1600 x 1200 x 600	Small
PTDDC16164	62.99 x 62.99 x 15.75	1600 x 1600 x 400	62.99 x 62.99 x 15.75	1600 x 1600 x 400	Small
PTDDC16165	62.99 x 62.99 x 19.69	1600 x 1600 x 500	62.99 x 62.99 x 19.69	1600 x 1600 x 500	Small
PTDDC16166	62.99 x 62.99 x 23.62	1600 x 1600 x 600	62.99 x 62.99 x 23.62	1600 x 1600 x 600	Small
PTDDC18164	70.87 x 62.99 x 15.75	1800 x 1600 x 400	70.87 x 62.99 x 15.75	1800 x 1600 x 400	Small
PTDDC18165	62.99 x 62.99 x 19.69	1600 x 1600 x 500	70.87 x 62.99 x 19.69	1800 x 1600 x 500	Small
PTDDC18184	62.99 x 70.87 x 15.75	1600 x 1800 x 400	70.87 x 62.99 x 23.62	1800 x 1800 x 400	Small
PTDDC18185	62.99 x 70.87 x 19.69	1600 x 1800 x 500	70.87 x 70.87 x 19.69	1800 x 1800 x 500	Small
PTDDC18186	62.99 x 70.87 x 23.62	1600 x 1800 x 600	70.87 x 70.87 x 23.62	1800 x 1800 x 600	Small
PTDDC20165	78.74 x 62.99 x 19.69	2000 x 1600 x 500	78.74 x 62.99 x 19.69	2000 x 1600 x 500	Small
PTDDC20166	78.74 x 62.99 x 23.62	2000 x 1600 x 600	78.74 x 62.99 x 23.62	2000 x 1600 x 600	Small
PTDDC20185	78.11 x 71.18 x 19.65	1984 x 1808 x 499	78.74 x 70.87 x 19.69	2000 x 1800 x 500	Small
PTDLDC20185	78.11 x 71.18 x 19.65	1984 x 1808 x 499	78.74 x 70.87 x 19.69	2000 x 1800 x 500	Large
PTDDC20186	78.11 x 71.18 x 23.58	1984 x 1808 x 599	78.74 x 70.87 x 23.62	2000 x 1800 x 600	Small
PTDLDC20186	78.11 x 71.18 x 23.58	1984 x 1808 x 599	78.74 x 70.87 x 23.62	2000 x 1800 x 600	Large
PTDDC22165	86.61 x 62.99 x 19.69	2200 x 1600 x 500	86.61 x 62.99 x 19.69	2200 x 1600 x 500	Small
PTDDC22166	86.61 x 62.99 x 23.62	2200 x 1600 x 600	86.61 x 62.99 x 23.62	2200 x 1600 x 6000	Small

PROLINE-DD Modular Enclosure

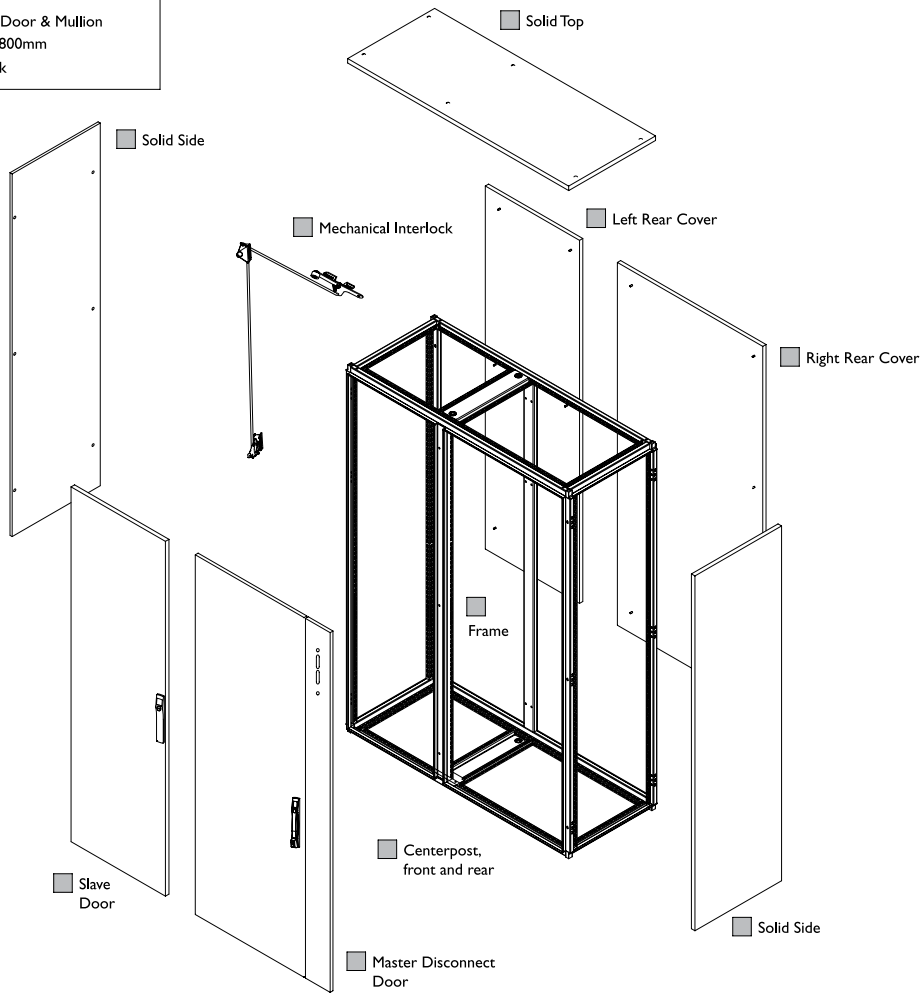


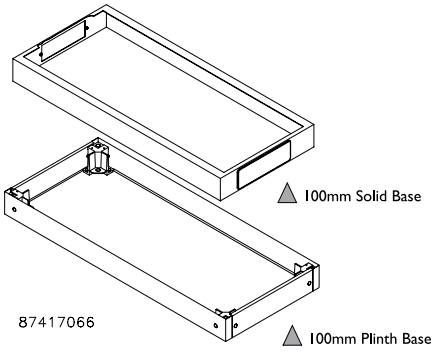
Standard Configuration

- Frame with removable centerpost at front and fixed centerpost at rear
- Solid Top
- Solid Sides
- Left Rear Cover, 2000 x 800mm
- Right Rear Cover, 2000 x 1000mm
- Master Disconnect Door & Mullion
- Slave Door, 2000 x 800mm
- Mechanical Interlock

Optional Components

All optional components may be ordered separately. Components labeled A-T-O may be included in an A-T-O configuration.





DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1. Wiring space W1 is available when disconnect is installed in the enclosure.

See Technical Information for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

W1 = Wiring Space.

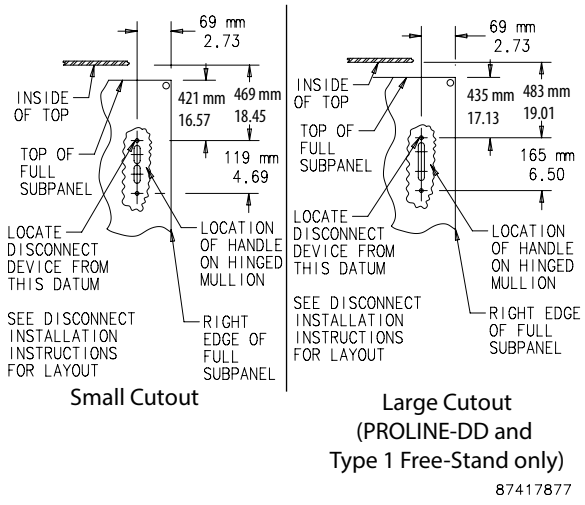
See Technical Information chapter for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine whether wiring space is adequate.

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.

Space Occupied by Disconnect



Small Cutout

Large Cutout (PROLINE-DD and Type 1 Free-Stand only)

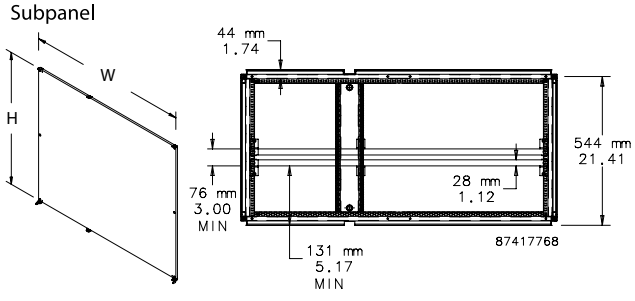
87417877

PROLINE-DD MODULAR SUBPANEL

The Subpanel mounts inside the PROLINE-DD Modular Enclosures. The subpanel size is 2000 x 1800 mm and is constructed of 10 gauge steel. It also has glide blocks to facilitate handling and installation (hardware is included).

BULLETIN: P20

Subpanel



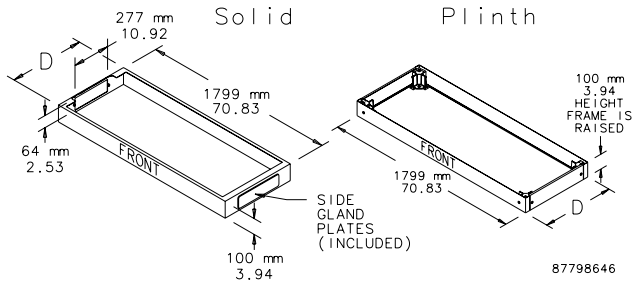
Catalog Number	Finish	H (in.)	H (mm)	W (in.)	W (mm)	Used with Assembled Enclosures
PPFDD1612	White Paint	58.46	1485	44.49	1130	PTDDC16124, PTDDC16125, PTDDC16126
PPFDD1612G	Conductive	58.46	1485	44.49	1130	PTDDC16124, PTDDC16125, PTDDC16126
PPFDD1616	White Paint	58.46	1485	60.24	1530	PTDDC16164, PTDDC16165, PTDDC16166
PPFDD1616G	Conductive	58.46	1485	60.24	1530	PTDDC16164, PTDDC16165, PTDDC16166
PPFDD1816	White Paint	66.34	1685	60.24	1530	PTDDC18164, PTDDC18165, PTDDC18166
PPFDD1816G	Conductive	66.34	1685	60.24	1530	PTDDC18164, PTDDC18165, PTDDC18166
PPFDD1818	White Paint	66.34	1685	68.11	1730	PTDDC18184, PTDDC18185, PTDDC18186
PPFDD1818G	Conductive	66.34	1685	68.11	1730	PTDDC18184, PTDDC18185, PTDDC18186
PPFDD2016	White Paint	74.21	1885	60.24	1530	PTDDC20165, PTDDC20166
PPFDD2016G	Conductive	74.21	1885	60.24	1530	PTDDC20165, PTDDC20166
PPF2018	White Paint	78.70	2000	70.90	1800	PTDDC20185, PTDDC20186, PTDLD20185, PTDLD20186
PPF2018G	Conductive	78.70	2000	70.90	1800	PTDDC20185, PTDDC20186, PTDLD20185, PTDLD20186
PPFDD2216	White Paint	82.09	2085	60.24	1530	PTDDC22165, PTDDC22166
PPFDD2216G	Conductive	82.09	2085	60.24	1530	PTDDC22165, PTDDC22166

PROLINE-DD MODULAR 100-MM BASES

These 100-mm solid and plinth bases mount to PROLINE-DD Modular Enclosures. Gland plates are necessary to maintain Type 12 rating when using plinth base.

BULLETIN: P20

Catalog Number	Type	Used with Assembly	D (mm)	D (in.)
PB1185	100-mm Solid Base	PTDDC20185	459	18.07
PB1186	100-mm Solid Base	PTDDC20186	559	22.01
PPB1186	100-mm Plinth Base	PTDDC20186	559	22.01



PREFERRED-CUTOUT OVERVIEW

APPLICATION

Enclosures having the preferred cutout are sized for use with up to 200A disconnect switches and up to 400A circuit breakers unless otherwise specified. The preferred cutout accepts the smaller operating handle whose mounting hole centers are 4.688 in. apart. Preferred cutouts are standard in mild steel wall-mount enclosures, modular enclosures and some select large mild steel enclosures. They are also present on all standard stainless steel offerings. 400 A (or greater) disconnect switches and 600 A (or greater) circuit breakers require the "Large" or "High Amp" cutout. This cutout accepts the larger operating handle whose mounting hole centers are 6.500-in. apart. This large cutout is only available on PROLINE-DD Disconnect Packages and Type 1 Free-Stand Enclosures.

Operator adapter for preferred cutouts must be ordered separately to be used with A21S, A28S4, A4S and WS2D enclosures. Preferred cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494U universal disconnect switches with flange-mount handles for either variable-depth or cable-operated mechanisms
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable-depth, flange-mount, molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange-mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

Allen-Bradley Bulletin 1494V-R1, -R2 and -W2 operating handles and Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators will NOT fit these enclosures.

ABB Controls flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

Eaton Cutler-Hammer Type C361 flange-mount variable-depth operating mechanisms with disconnect switches and Type C371 flange-mount variable-depth operating mechanisms for circuit breakers.

General Electric Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX cable operators for circuit breakers.

Siemens ITE MAX FLEX® flange-mount variable-depth operating handles for circuit breakers.

Schneider Square D® Class 9422 disconnect switches with flange-mount variable-depth operating mechanisms or cable mechanisms and Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TG1 or TG2 devices.

ORDERING

Order the disconnect switch, operating handle and operating mechanism separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

TWO-DOOR STAINLESS STEEL FLANGE-MOUNTED DISCONNECTS, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

SPECIFICATIONS

- Manufactured from 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough collar excludes liquids and contaminants
- Removable centerposts permit easy panel installation
- Heavy-gauge continuous hinges
- Heavy-duty lifting eyes are Type 316 stainless steel
- Data pocket is high-impact thermoplastic
- 15-in. floor stands are welded to enclosure
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Panel supports
- Collar studs provided for mounting optional panels
- Heavy-duty 3-point latching mechanism operated by Type 316 stainless steel POWERGLIDE padlocking handle on all doors
- Master door is right-hand door on X enclosures and left-hand door on CPX enclosures
- Type 316 stainless steel handle with defeater on master door
- Type 316 stainless steel handle (non-defeater) on slave door
- Mechanical interlock operated by master door prevents slave door from being opened first; doors can be closed in any order
- Preferred cutout on right flange provides mounting for most disconnect operators
- Bonding provision on doors; grounding studs on body
- Accessory mounting channel provided in enclosure top

FINISH

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Operator Adapters for Preferred Cutouts, page 442
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

PATENTS

US 5,634,357
D 385,7683

BULLETIN: A21S4

Standard Product **Two-Door with Provision for Disconnect Operator on Right Flange**

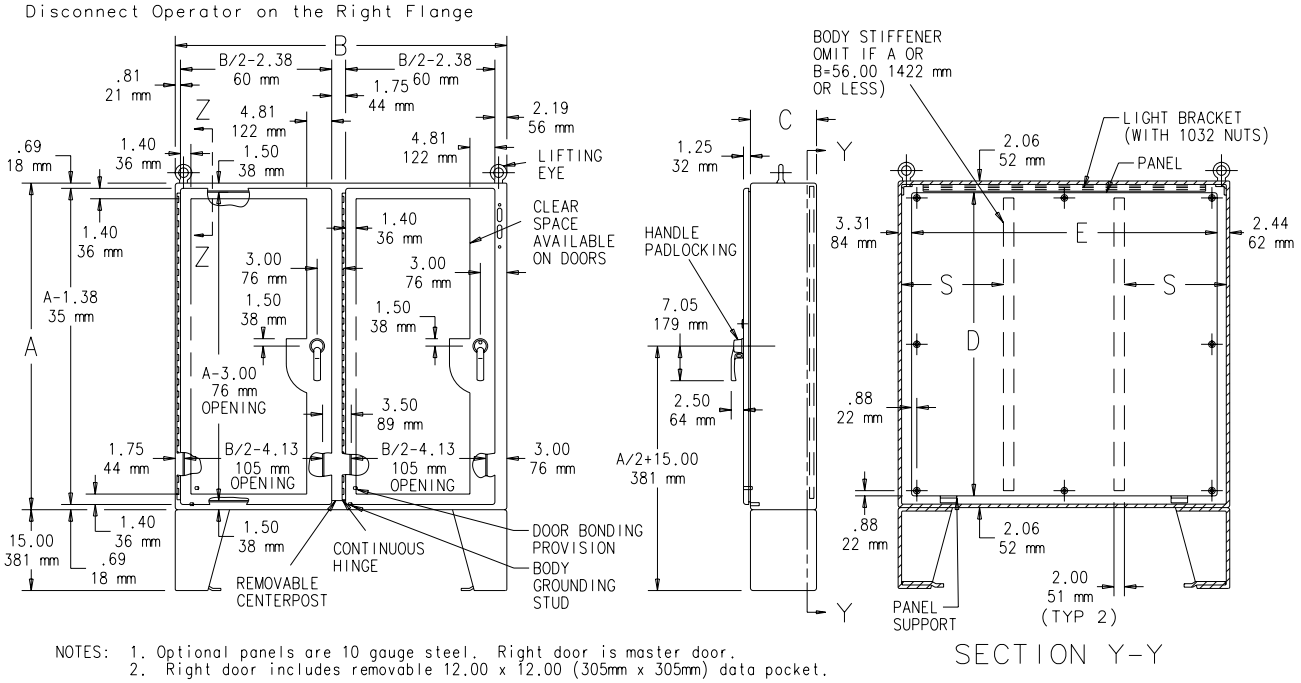
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm
A60X4912SSLPN4	60.12 x 49.79 x 12.12 1527 x 1265 x 308	A60P48	A60P48G	56.00 x 44.00 1422 x 1118
A60X6112SSLPN4	60.12 x 61.75 x 12.12 1527 x 1568 x 308	A60P60	A60P60G	56.00 x 56.00 1422 x 1422
A72X6112SSLPN4	72.12 x 61.75 x 12.12 1832 x 1568 x 308	A72P60	A72P60G	68.00 x 56.00 1727 x 1422
A72X7312SSLPN4	72.12 x 73.75 x 12.12 1832 x 1873 x 308	A72P72	A72P72G	68.00 x 68.00 1727 x 1727
A60X4918SSLPN4	60.12 x 49.75 x 18.12 1527 x 1264 x 460	A60P48	A60P48G	56.00 x 44.00 1422 x 1118
A60X6118SSLPN4	60.12 x 61.75 x 18.12 1527 x 1568 x 460	A60P60	A60P60G	56.00 x 56.00 1422 x 1422
A72X6118SSLPN4	72.12 x 61.75 x 18.12 1832 x 1568 x 460	A72P60	A72P60G	68.00 x 56.00 1727 x 1422
A72X7318SSLPN4	72.12 x 73.75 x 18.12 1832 x 1873 x 460	A72P72	A72P72G	68.00 x 68.00 1727 x 1727
A72X7324SSLPN4	72.12 x 73.75 x 24.12 1832 x 1873 x 613	A72P72	A72P72G	68.00 x 68.00 1727 x 1727

Purchase panels separately.

All 24.12-in. (613 mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Eaton Cutler-Hammer C361 devices • Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Schneider Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.

Disconnect Operator on the Right Flange



NOTES: 1. Optional panels are 10 gauge steel. Right door is master door.
2. Right door includes removable 12.00 x 12.00 (305mm x 305mm) data pocket.

SECTION Y-Y

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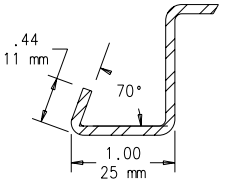


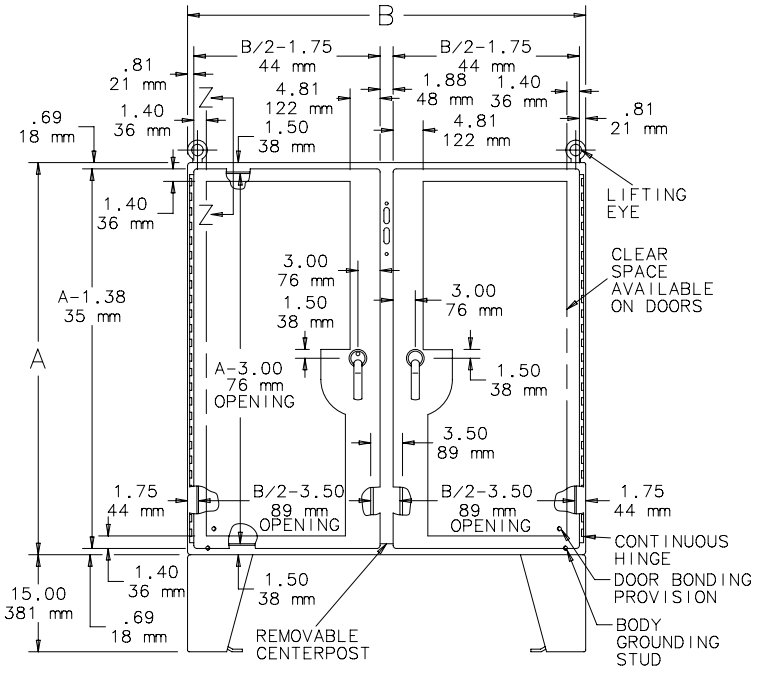
SECTION Z-Z

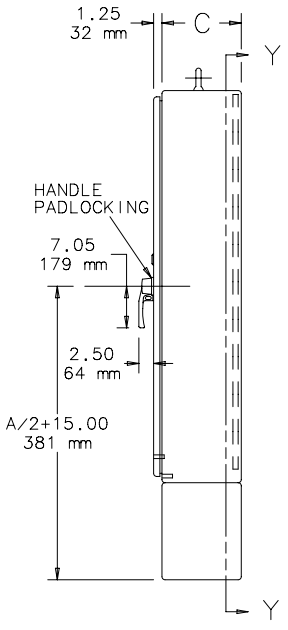
Standard Product **Two-Door with Provision for Disconnect Operator on Centerpost**

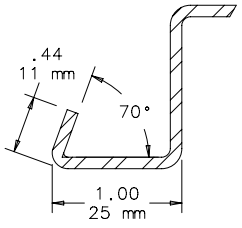
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm
A60CPX4812SSLPN4	60.12 x 48.50 x 12.12 1527 x 1232 x 308	A60P48	A60P48G	56.00 x 44.00 1422 x 1118
A60CPX6012SSLPN4	60.12 x 60.50 x 12.12 1527 x 1537 x 308	A60P60	A60P60G	56.00 x 56.00 1422 x 1422
A72CPX7212SSLPN4	72.12 x 72.50 x 12.12 1832 x 1842 x 308	A72P72	A72P72G	68.00 x 68.00 1727 x 1727
A72CPX7218SSLPN4	72.12 x 72.50 x 18.12 1832 x 1842 x 460	A72P72	A72P72G	68.00 x 68.00 1727 x 1727

Purchase panels separately.

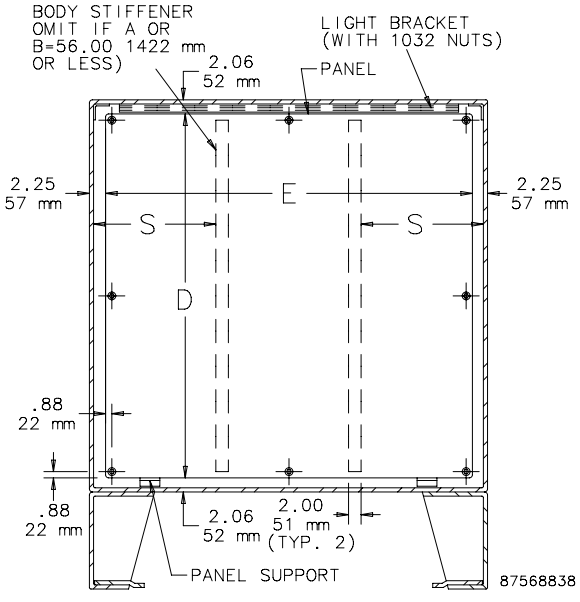
Disconnect Operator on the Centerpost Flange







SECTION Z-Z



SECTION Y-Y

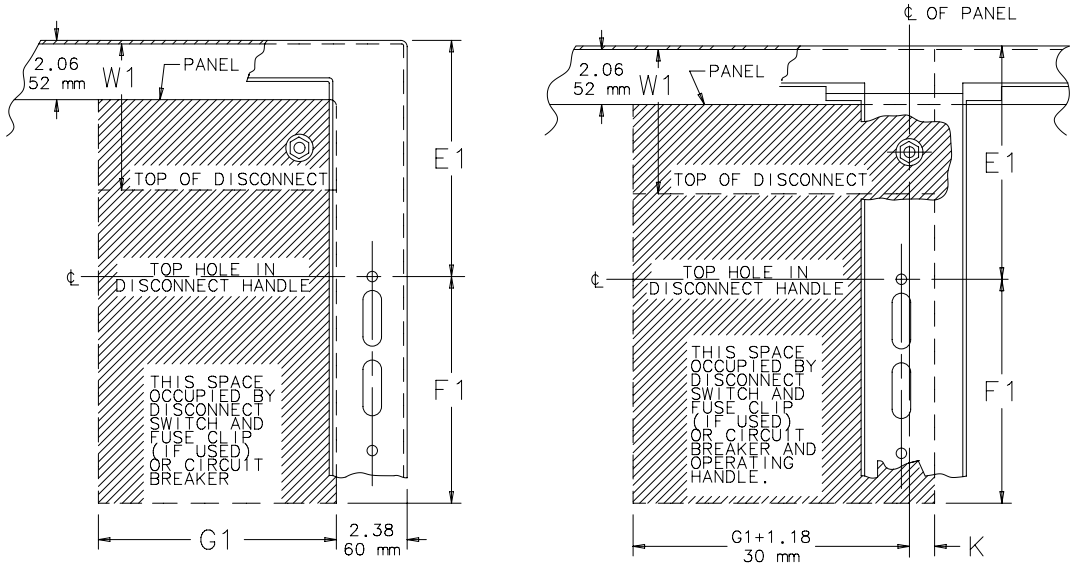
NOTES:
1. Optional panels are 10 gauge steel. Left door is master door.
2. Right door includes removable 12.00 x 12.00 (305mm x 305mm) data pocket.

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1, G1 and K. Wiring Space W1 is available when disconnect is installed in the enclosure. See the Technical Information chapter for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

Refer to *National Electrical Code*®, 2005 article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.



Consult disconnect manufacturer for F1 and G1 dimensions.

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GENERAL PURPOSE STAINLESS STEEL TWO-DOOR FLOOR-MOUNT DISCONNECT, TYPE 4X

APPLICATION

This disconnect enclosure is designed to house electronic controls and components. It provides protection from noncorrosive or mildly corrosive elements in both indoor and outdoor environments. Typical applications are in the food and beverage, packaging, water, petroleum and chemical processing industries. Designed to house the most popular disconnect switches and circuit breakers.

FEATURES

- Seams continuously welded and ground smooth
- Seamless foam-in-place one-piece gasket provides water-, oil- and dust-tight seal against contaminants
- Heavy-duty three-point latching mechanism on each door, operated by Hoffman's black die-cast POWERGLIDE padlocking handle. Black die-cast quarter-turn latches with slotted insert provided on the top and bottom of each door.
- Master door is far right-hand door on all enclosures
- Master door handle provided with integral screwdriver defeater
- Mechanical interlock activated by master door prevents slave door from being opened first. Doors can be closed in any order.
- Concealed hinges provide 180-degree door opening and allow easy door removal and cleaning of hinge area
- Bolt-on 15-in.-high stainless steel floor stands
- Heavy-duty Type 316L stainless steel lifting eyes
- Collar studs on inside of enclosure back for optional mounting panels
- Removable centerpost for easy panel installation
- Bonding provisions on doors and ground studs on body
- No interior stiffeners to obstruct component mounting
- Provisions for mounting optional fluorescent light packages

SPECIFICATIONS

- 14 gauge doors and 12 gauge body from Type 304 stainless steel
- Flange trough collar on all four sides of door openings
- Data pocket is high-impact plastic attached with pressure-sensitive adhesive
- Preferred cutout on right-hand flange provides mounting for most disconnect operators

FINISH

Stainless steel enclosures are unpainted. External surfaces of front, sides, top and bottom have a #4 finish. Interior welds are not finished. Optional panels have white or conductive finish.

ACCESSORIES

Electric Heaters, page 1236
Electrical Interlocks, page 1390
PANELITE Enclosure Lights, page 1393
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4S2

INDUSTRY STANDARDS

UL508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC: Type 3R, 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

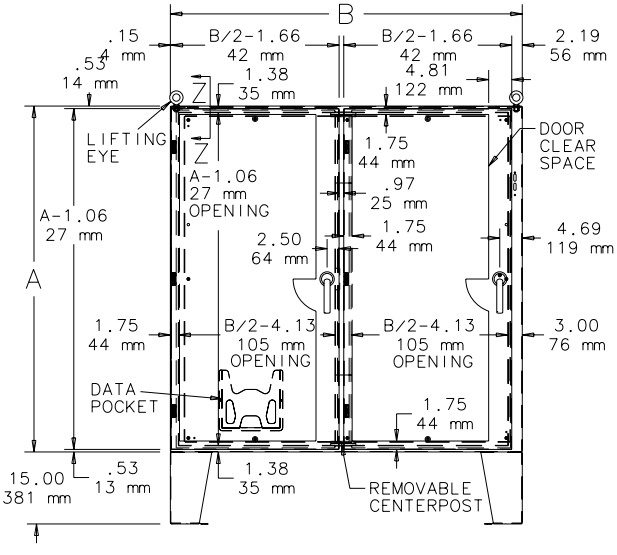
Standard Product

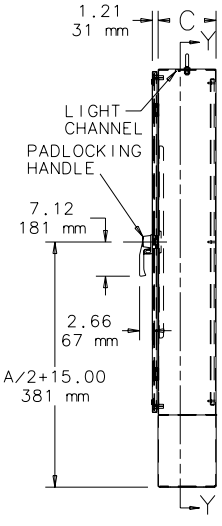
Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm	No. of Quarter-turn Latches
A60HX4912SSLPQT	60.06 x 49.31 x 12.06 1526 x 1252 x 306	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	4
A60HX4918SSLPQT	60.06 x 49.31 x 18.06 1526 x 1252 x 459	A60P48	A60P48G	56.00 x 44.00 1422 x 1118	4
A60HX6112SSLPQT	60.06 x 61.31 x 12.06 1526 x 1557 x 306	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	4
A60HX6118SSLPQT	60.06 x 61.31 x 18.06 1526 x 1557 x 459	A60P60	A60P60G	56.00 x 56.00 1422 x 1422	4
A72HX6112SSLPQT	72.06 x 61.31 x 12.06 1830 x 1557 x 306	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	4
A72HX6118SSLPQT	72.06 x 61.31 x 18.06 1830 x 1557 x 459	A72P60	A72P60G	68.00 x 56.00 1727 x 1422	4
A72HX7312SSLPQT	72.06 x 73.31 x 12.06 1830 x 1862 x 306	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	4
A72HX7318SSLPQT	72.06 x 73.31 x 18.06 1830 x 1862 x 459	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	4
A72HX7324SSLPQT	72.06 x 73.31 x 24.06 1830 x 1862 x 611	A72P72	A72P72G	68.00 x 68.00 1727 x 1727	4

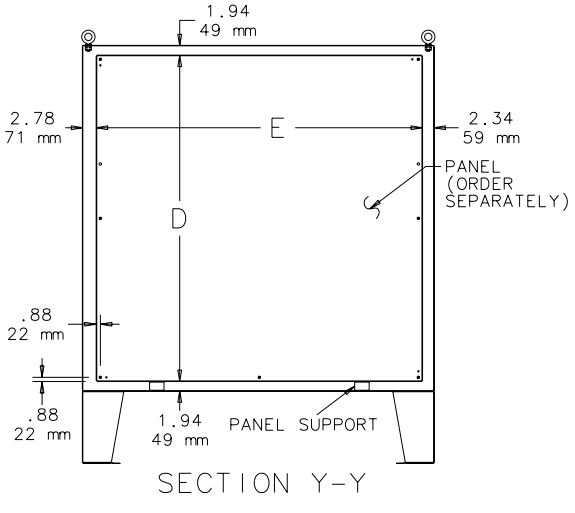
Purchase panels separately

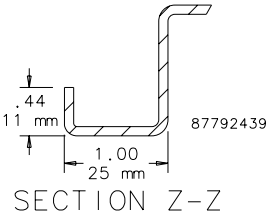
All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Eaton Cutler-Hammer C361 devices • Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Schneider Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.









GENERAL PURPOSE SINGLE-DOOR FREE-STAND DISCONNECT, TYPE 4X

INDUSTRY STANDARDS

UL508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC: Type 3R, 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX

APPLICATION

This single-door stainless steel enclosure with quarter-turn latches is designed to house electronic controls and components. It provides protection from noncorrosive or mildly corrosive elements in both indoor and outdoor environments. Typical applications are in the pharmaceutical, food and beverage, packaging, water, petroleum and chemical processing industries.

SPECIFICATIONS

- Type 304 stainless steel 14 gauge doors and body, and 14 or 12 gauge back
- Seams continuously welded and ground smooth
- Flange trough collar on all four sides of door openings
- Seamless foam-in-place one-piece gasket provides water-, oil- and dust-tight seal against contaminants
- Heavy-duty three-point latching mechanism on each door, operated by Hoffman's black die-cast POWERGLIDE padlocking handle. Black die-cast quarter-turn latches with slotted insert provided on the top and bottom of each door.
- Black Die-Cast POWERGLIDE handle has integral screwdriver defeater
- Collar studs on inside of enclosure back for optional mounting panels
- Concealed stainless steel hinges provide **180-degree door opening** and allow easy door removal and cleaning of hinge area
- Heavy-duty Type 316L stainless steel lifting eyes
- Bonding provision on door; grounding stud on body
- High-impact plastic Data Pocket kit included with enclosure
- Accessory mounting channel provided in enclosure top

FINISH

Stainless steel enclosures are unpainted. External surfaces of front, sides, top and bottom have a #4 finish. Interior welds are not finished.
Optional mild steel back panels are painted white. Optional conductive back panels are available.

ACCESSORIES

Electric Heaters, page 1236
PANELITE Enclosure Lights, page 1393
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

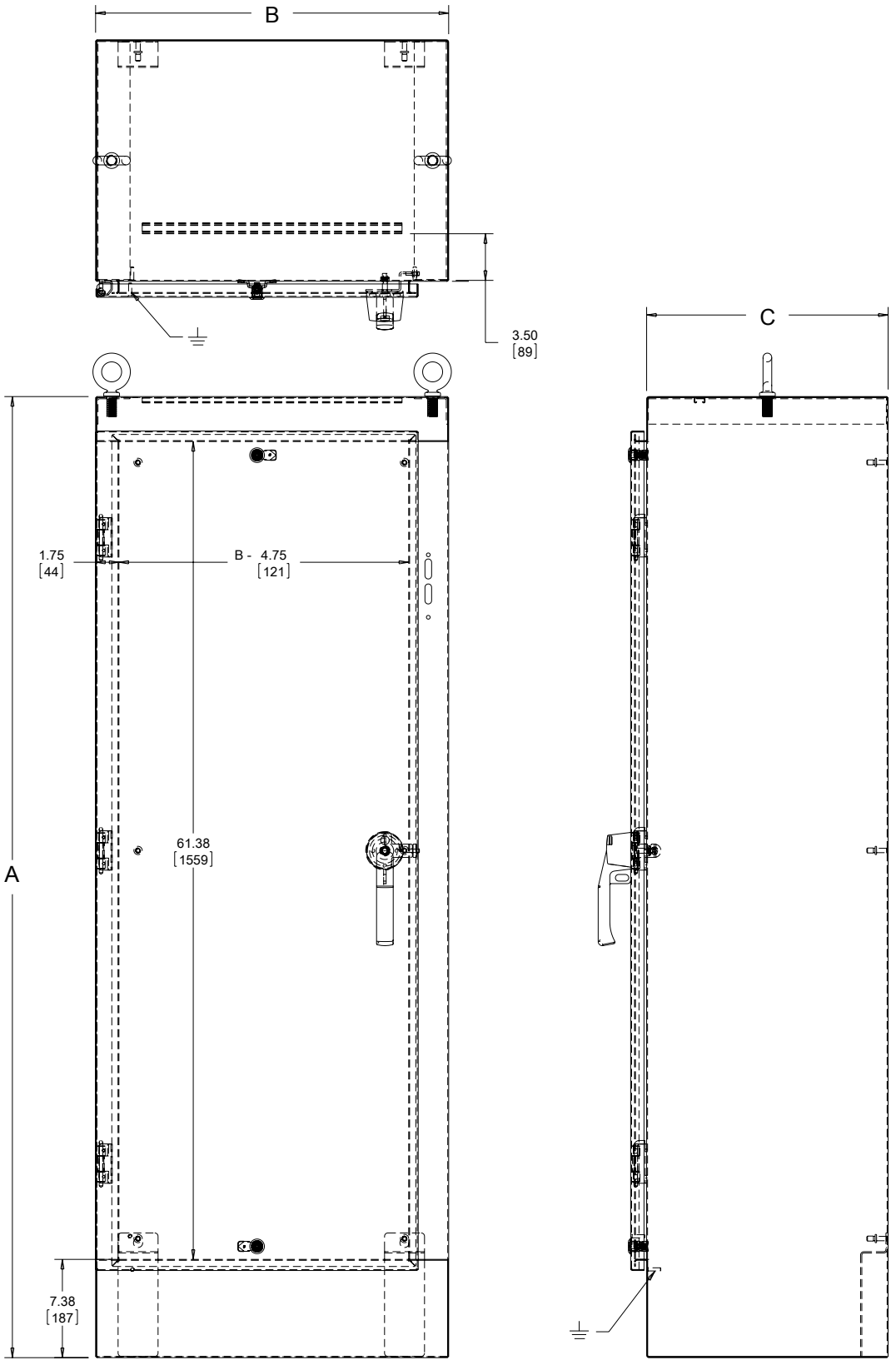
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4S2

Standard Product

Catalog Number	AxBxC in./mm	Panel	Conductive Panel	Panel Size D x E in./mm
A72HXS2718SSLPQT	72.06 x 26.50 x 18.06 1830 x 673 x 459	A72PM28	A72PM28G	60.00 x 21.75 1524 x 552
A72HXS3224SSLPQT	72.06 x 32.50 x 24.06 1830 x 826 x 611	A72PM34	A72PM34G	60.00 x 27.75 1524 x 705
A72HXS3924SSLPQT	72.06 x 38.50 x 24.06 1830 x 978 x 611	A72PM40	A72PM40G	60.00 x 33.75 1524 x 857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89061901

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1, G1 and K. Wiring space W1 is available when disconnect is installed in the enclosure.

See the Technical Information chapter for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

Refer to *National Electrical Code*®, 2005 article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.

Verify your application to determine if wiring space is adequate.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods by the following manufacturers require a Hoffman platform assembly, catalog number ADSCPA, purchased separately.

- ABB Controls flange-operated devices
- Eaton Cutler-Hammer C361 devices
- Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see Disconnect Enclosure Accessories)
- General Electric Type TDA devices (see Disconnect Enclosure Accessories)
- Schneider Square D® Class 9422 devices (see Disconnect Enclosure Accessories)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods.

- For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod.
- For General Electric devices, order catalog number TDSR extended length drive rod
- For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

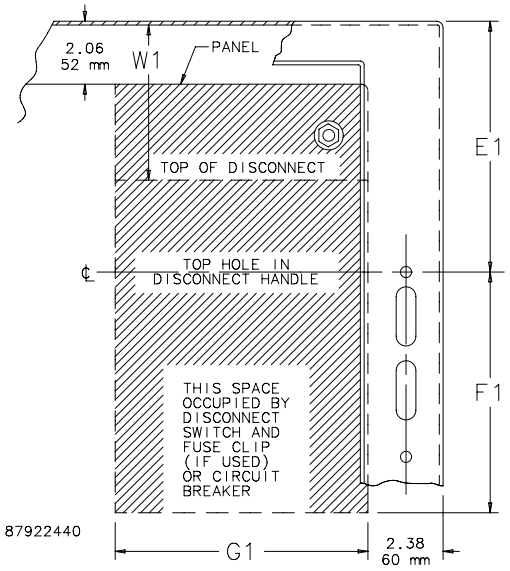
Consult factory for space occupied on panel when platform is used. **Be sure to match the disconnect device you are using with the correct enclosure size.**

A Complete Assembly Consists of:

1. An enclosure
2. A panel
3. A disconnect device

Consult the Technical Information chapter of this catalog for wire bend information and nVent.com/HOFFMAN for disconnect manufacturer information.

Disconnect switch (or circuit breakers), operating handle and operating mechanism are not furnished with enclosure.



Consult disconnect manufacturer for F1 and G1 dimensions.

STAINLESS STEEL HEAVY-DUTY FREE-STAND FLANGE-MOUNT DISCONNECTS, TYPE 4X

SPECIFICATIONS

- Manufactured from 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough collar excludes liquids and contaminants
- Heavy-duty lifting eyes anchor into reinforced top
- Removable centerposts permit easy panel installation
- Heavy-gauge continuous hinges
- Heavy-duty 3-point latching mechanism operated by Type 316L stainless steel POWERGLIDE padlocking handle on all doors
- Panel supports
- Data pocket is high-impact thermoplastic
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Removable 10 gauge steel panels mount on collar studs
- Master door is far right-hand door on all enclosures
- Type 316 stainless steel handle with defeater on master door
- Type 316 stainless steel handle (non-defeater) on slave door
- Mechanical interlock activated by master door prevents slave doors from being opened first. Doors can be closed in any order.
- Preferred cutout on right flange provides mounting for most disconnect operators
- Bonding provision on doors; grounding studs on body
- Accessory mounting channel provided in enclosure top

FINISH

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. White mild steel panels are furnished with enclosure. Optional conductive panels are available.

ACCESSORIES

Electric Heaters, page 1236
Compact Axial Fans, page 1202
Floor Stand Kit, page 1404
PANELITE Enclosure Lights, page 1393
Operator Adapters for Preferred Cutouts, page 442

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

PATENTS

US 5,634,357
D 385,7683

BULLETIN: A28S4

INDUSTRY STANDARDS

UL 508A Listed 508; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, Type 4, 4X, 12
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

This disconnect enclosure is designed to house electronic controls and components. It provides protection from noncorrosive or mildly corrosive elements in both indoor and outdoor environments. Typical applications are in the food and beverage, packaging, water, petroleum and chemical processing industries. Designed to house the most popular disconnect switches and circuit breakers.

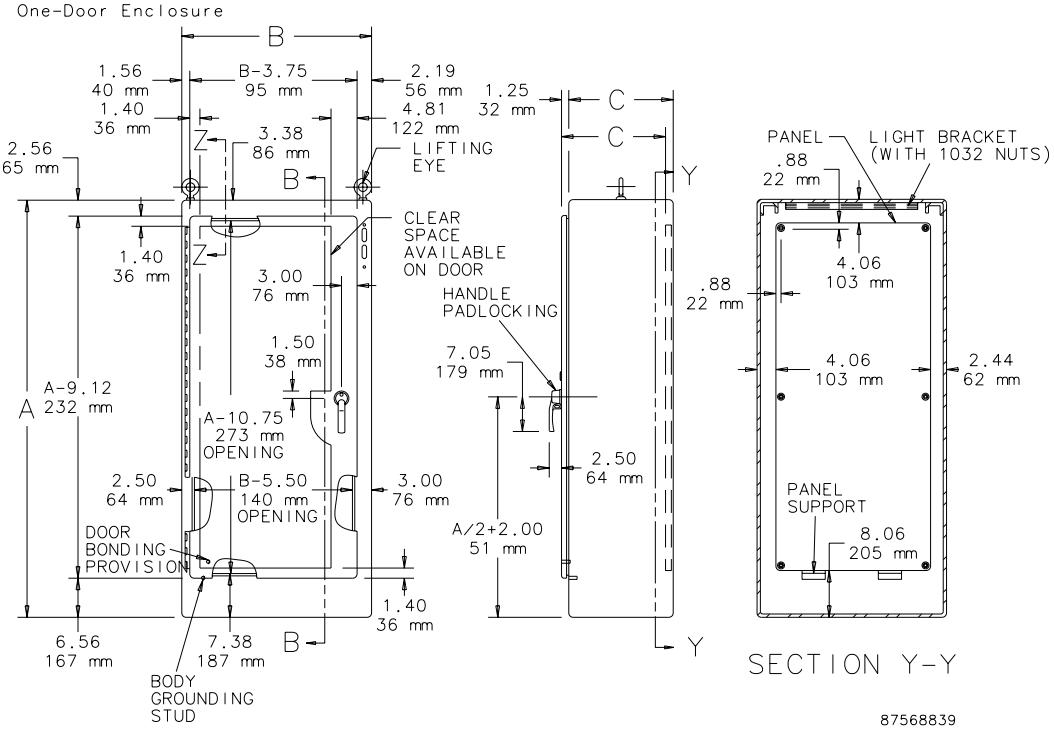
Standard Product **One-Door Enclosures**

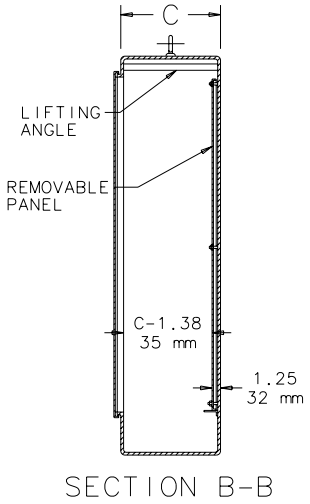
Catalog Number	AxBxC in.	AxBxC mm	Panel	Conductive Panel	Panel Size (in.)	Panel Size (mm)
A72XM2818SSN4	72.12 x 28.25 x 18.12	1832 x 718 x 460	A72PM28	A72PM28G	60.00 x 21.75	1524 x 552
A72XM3418SSN4	72.12 x 34.25 x 18.12	1832 x 870 x 460	A72PM34	A72PM34G	60.00 x 27.75	1524 x 705
A72XM4018SSN4	72.12 x 40.25 x 18.12	1832 x 1022 x 460	A72PM40	A72PM40G	60.00 x 33.75	1524 x 857
A84XM4018SSN4	84.12 x 40.25 x 18.12	2137 x 1022 x 460	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857
A90XM4018SSN4	90.12 x 40.25 x 18.12	2289 x 1022 x 460	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4020SSN4	90.12 x 40.25 x 20.12	2289 x 1022 x 511	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A84XM4024SSN4	84.12 x 40.25 x 24.12	2137 x 1022 x 613	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857
A90XM4024SSN4	90.12 x 40.25 x 24.12	2289 x 1022 x 613	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857

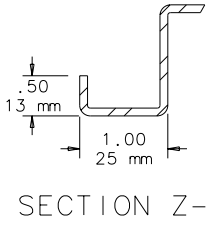
White mild steel panels are furnished with enclosure. Purchase conductive panels separately.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Cutler-Hammer C361 devices • Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.



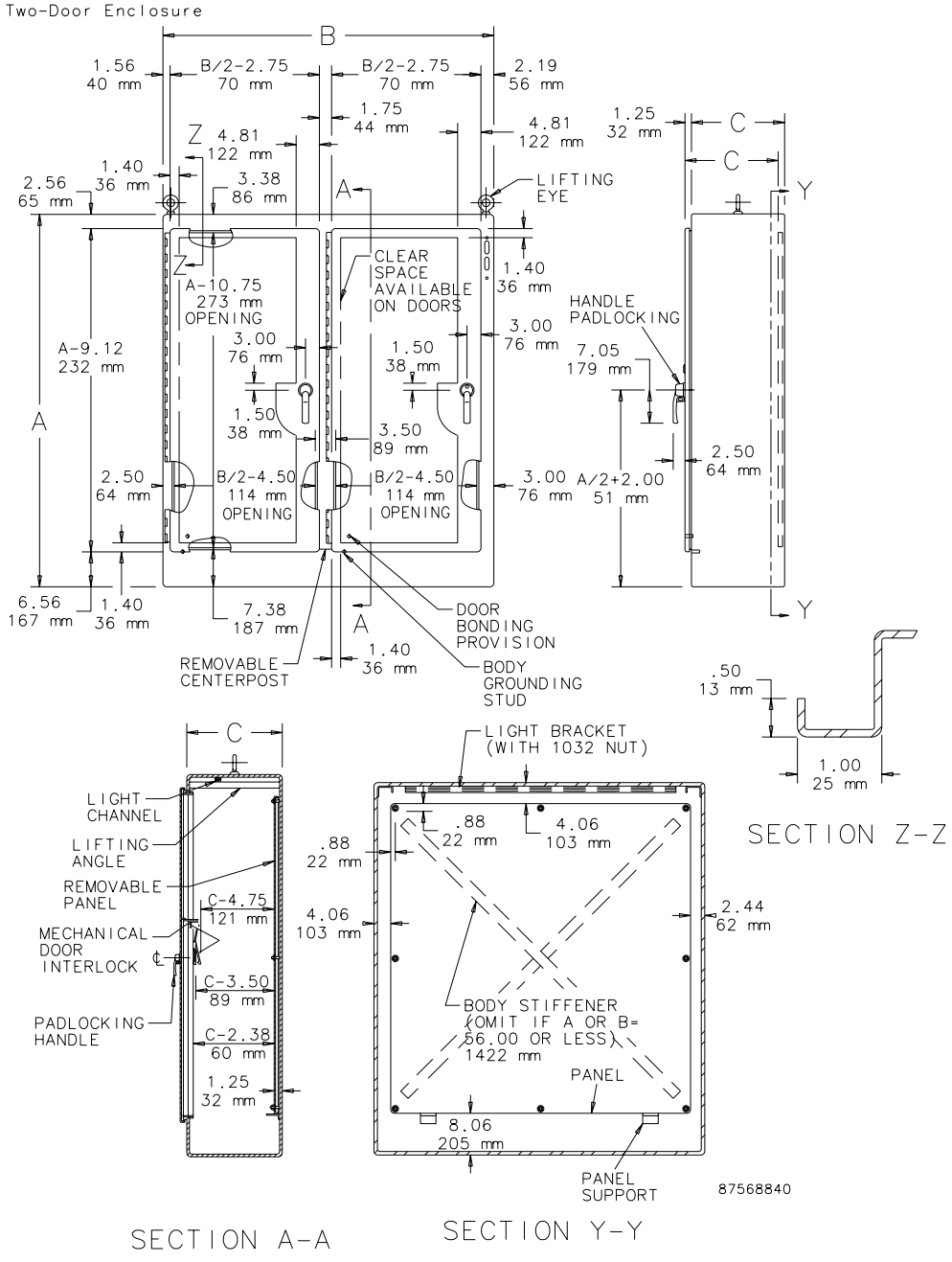




Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Panel	Conductive Panel	Panel Size (in.)	Panel Size (mm)
A72XM5418SSN4	72.12 x 54.50 x 18.12	1832 x 1384 x 460	A72PM54	A72PM54G	60.00 x 48.00	1524 x 1219
A72XM6618SSN4	72.12 x 66.50 x 18.12	1832 x 1689 x 460	A72PM66	A72PM66G	60.00 x 60.00	1524 x 1524
A72XM7818SSN4	72.12 x 78.50 x 18.12	1832 x 1994 x 460	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A84XM7818SSN4	84.12 x 78.50 x 18.12	2137 x 1994 x 460	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A90XM7818SSN4	90.12 x 78.50 x 18.12	2289 x 1994 x 460	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7820SSN4	90.12 x 78.50 x 20.12	2289 x 1994 x 511	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A72XM7824SSN4	72.12 x 78.50 x 24.12	1832 x 1994 x 613	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A84XM7824SSN4	84.12 x 78.50 x 24.12	2137 x 1994 x 613	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A90XM7824SSN4	90.12 x 78.50 x 24.12	2289 x 1994 x 613	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829

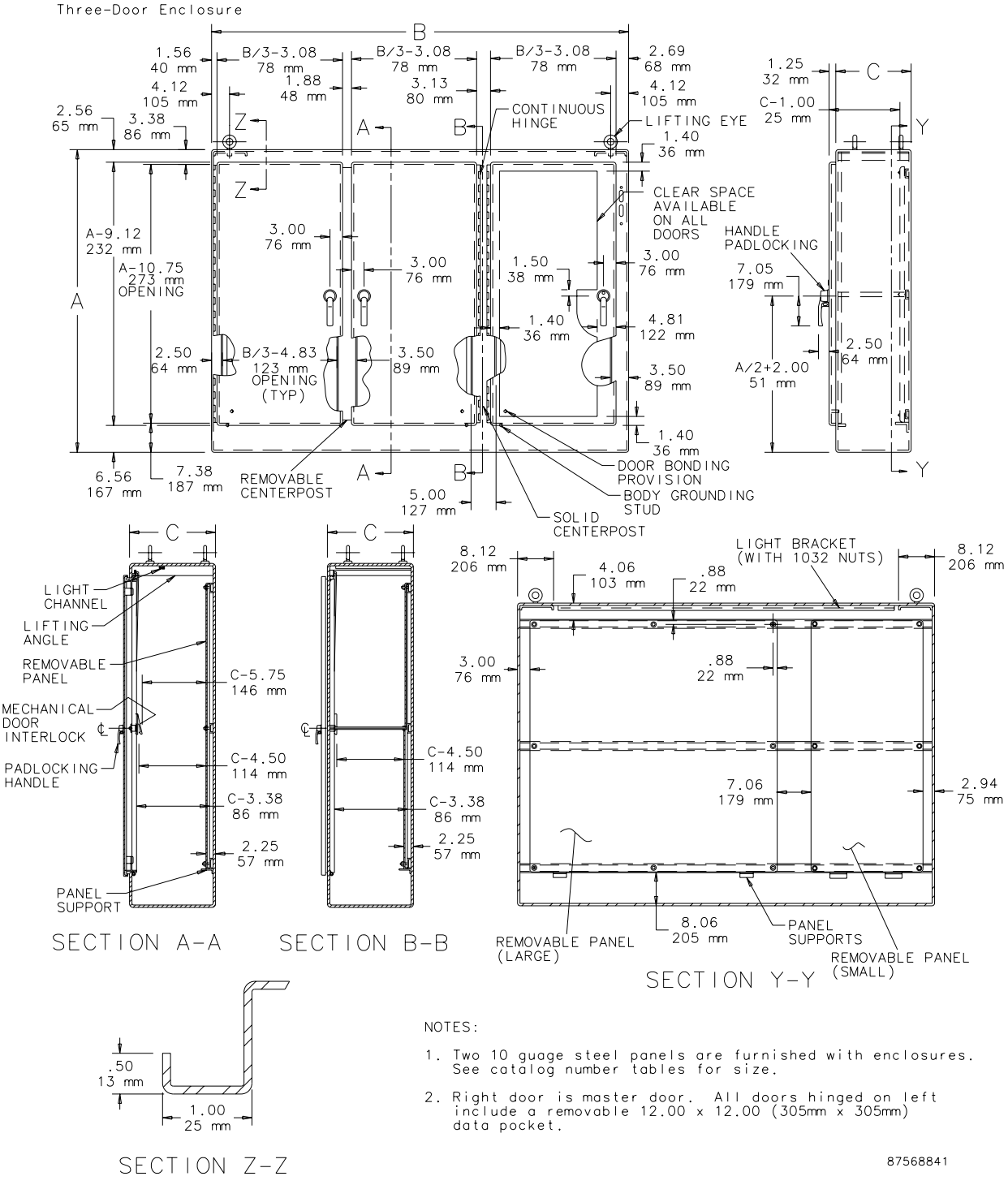
White mild steel panels are furnished with enclosure. Purchase conductive panels separately.



Standard Product **Three-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Large Panel	Conductive Large Panel	Number of Large Panels	Size of Large Panels (in.)	Size of Large Panels (mm)	Small Panel	Small Conductive Panel	Number of Small Panels	Size of Small Panels (in.)	Size of Small Panels (mm)
A72XM3EQ18SSN4	72.12 x 100.75 x 18.12	1832 x 2559 x 460	A72PM66	A72PM66G	1	60.00 x 60.00	1524 x 1524	A72PM34	A72PM34G	1	60.00 x 27.75	1524 x 705
A72XM3EW18SSN4	72.12 x 118.75 x 18.12	1832 x 3016 x 460	A72PM78	A72PM78G	1	60.00 x 72.00	1524 x 1829	A72PM40	A72PM40G	1	60.00 x 33.75	1524 x 857
A84XM3EW18SSN4	84.12 x 118.75 x 18.12	2137 x 3016 x 460	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM3EW24SSN4	84.12 x 118.75 x 24.12	2137 x 3016 x 613	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A90XM3EW24SSN4	90.12 x 118.75 x 24.12	2289 x 3016 x 613	A90PM78	A90PM78G	1	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857

White mild steel panels are furnished with enclosure. Purchase conductive panels separately.



NOTES:

1. Two 10 guage steel panels are furnished with enclosures. See catalog number tables for size.
2. Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 (305mm x 305mm) data pocket.

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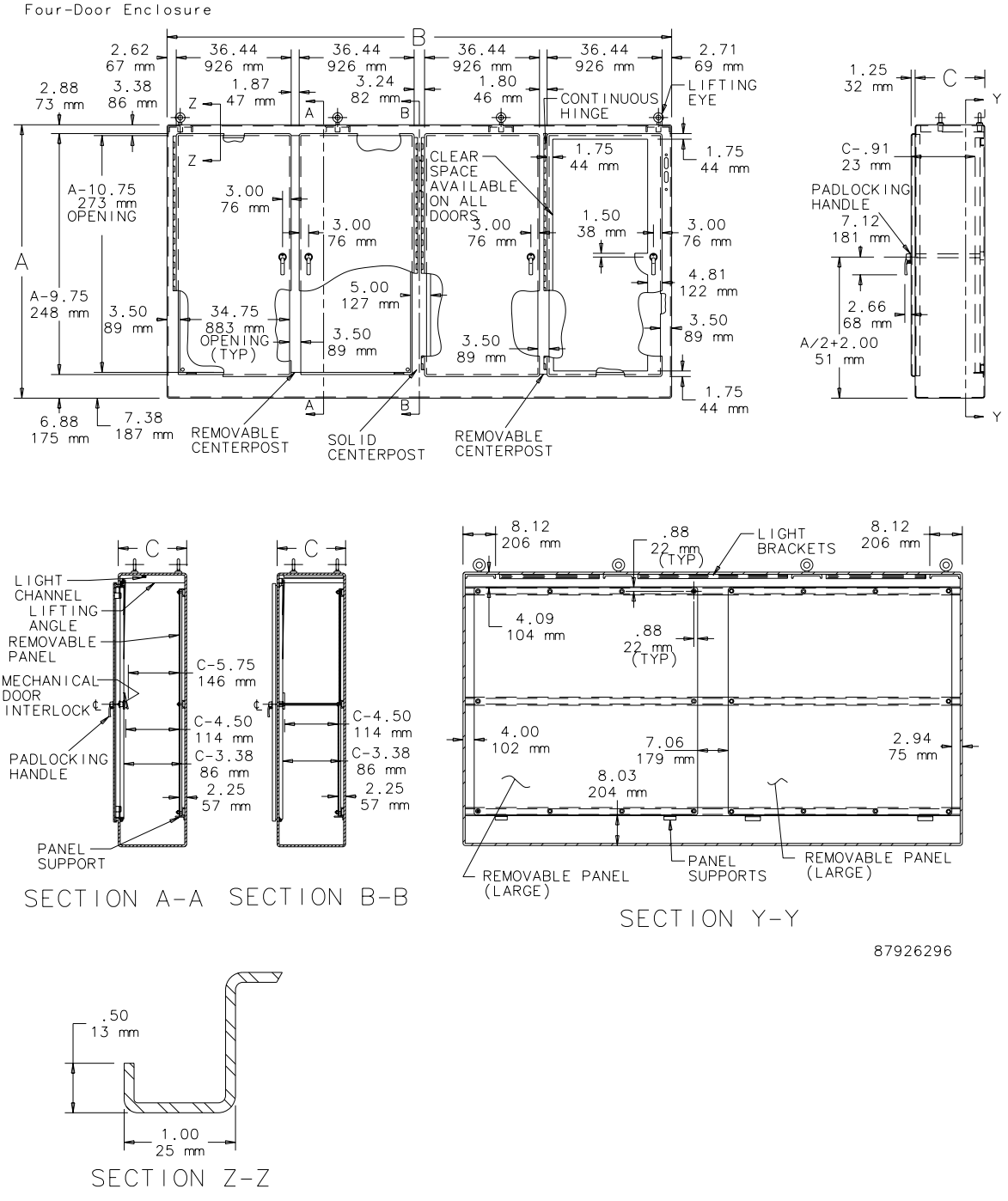
Standard Product **Four- and Five-Door Enclosures**

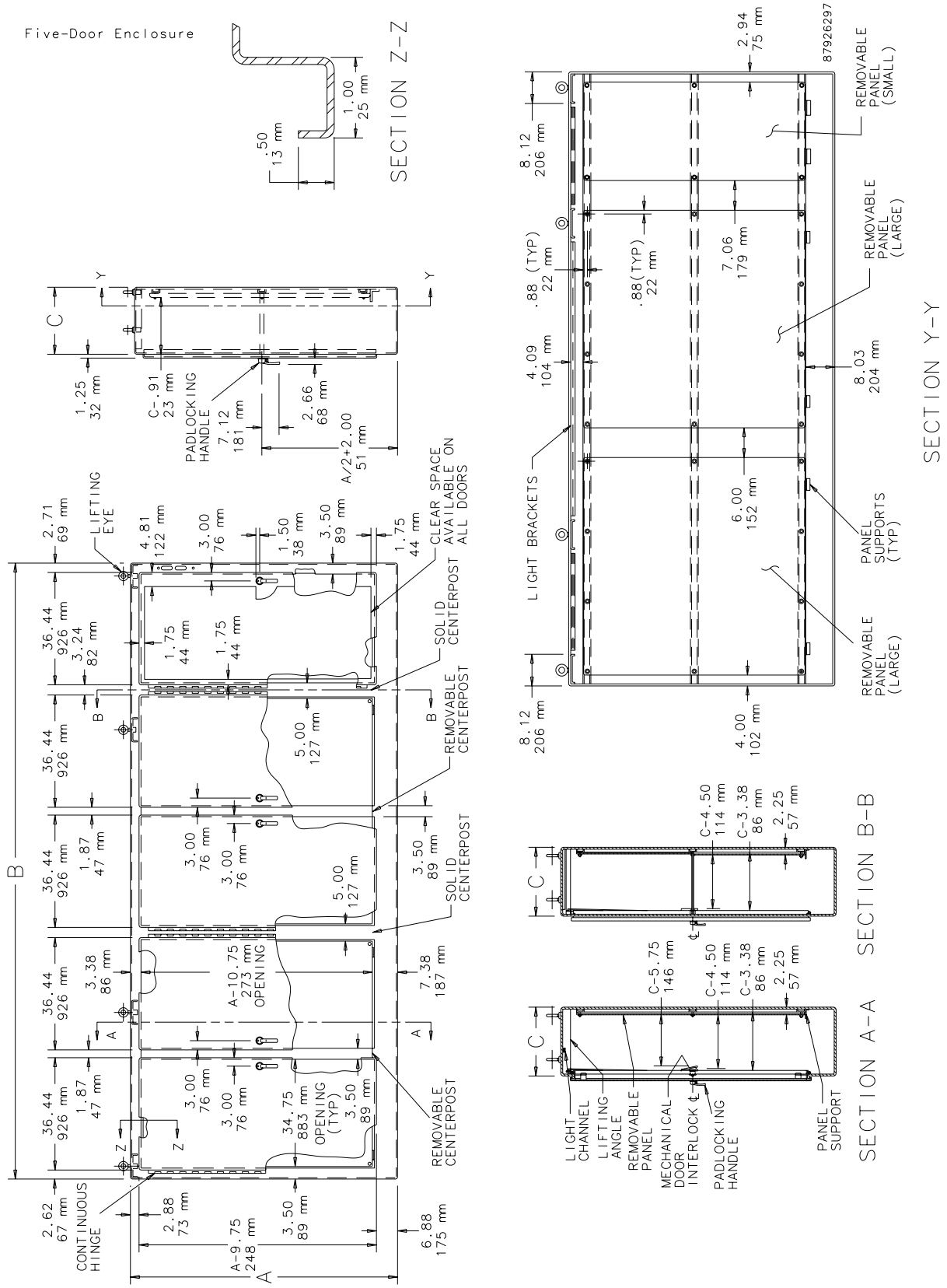
Catalog Number	AxBxC in.	AxBxC mm	Number of Doors	Panel	Number of Panels	Size of Panels (in.)	Sizes of Panels (mm)
A72XM4EW18SSN4	72.12 x 158.00 x 18.12	1832 x 4013 x 460	4	A72PM78	2	60.00 x 72.00	1524 x 1829
A84XM4EW18SSN4	84.12 x 158.00 x 18.12	2137 x 4013 x 460	4	A84PM78	2	72.00 x 72.00	1829 x 1829
A84XM5EW24SSN4	84.12 x 197.75 x 24.12	2137 x 5023 x 613	5	A84PM78 and A84PM40	2 and 1	72.00 x 72.00 and 72.00 x 33.75	1829 x 1829 and 1329 x 857

White mild steel panels are furnished with enclosure. Optional conductive panels are available.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Eaton Cutler-Hammer C361 devices • Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Schneider Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.




Five-Door Enclosure
SECTION Z-Z
SECTION Y-Y
SECTION B-B
SECTION A-A
LIFTING EYE
CLEAR SPACE AVAILABLE ON ALL DOORS
SOLID CENTERPOST
REMOVABLE CENTERPOST
OPENING (TYP)
CONTINUOUS HINGE
PADLOCKING HANDLE
REMOVABLE PANEL (SMALL)
REMOVABLE PANEL (LARGE)
PANEL SUPPORTS (TYP)
LIGHT BRACKETS
LIGHT CHANNEL
LIFTING ANGLE
REMOVABLE PANEL
MECHANICAL DOOR INTERLOCK
PANEL SUPPORT

DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1 in the diagram. Wiring space W1 is available when disconnect is installed in the enclosure.
See the Technical Information section for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.
Refer to *National Electrical Code®*, 2005 article 430-10(b) for wiring space required for line side conductors to be connected to disconnect.
Verify your application to determine if wiring space is adequate.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods by the following manufacturers require a Hoffman platform assembly, catalog number ADSCPA, purchased separately.

- ABB Controls flange-operated devices
- Eaton Cutler-Hammer C361 devices
- Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see Disconnect Enclosure Accessories)
- General Electric Type TDA devices (see Disconnect Enclosure Accessories)
- Schneider Square D® Class 9422 devices (see Disconnect Enclosure Accessories)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods.

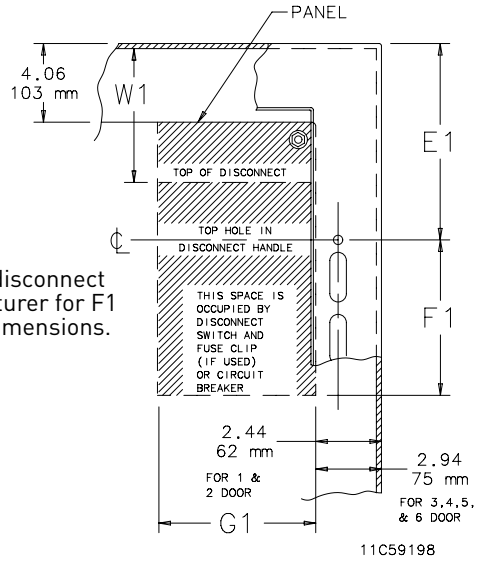
- For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod.
- For General Electric devices, order catalog number TDSR extended length drive rod
- For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

Consult factory for space occupied on panel when platform is used.

A Complete Assembly Consists of:

1. An enclosure
2. A panel
3. An operator adapter (see Disconnect Enclosure Accessories in this publication to select the proper operator adapter for the brand and type of disconnect being used). *Door hardware is furnished with enclosure.*
4. A disconnect device.

Consult disconnect manufacturer for F1 and G1 dimensions.



WATERSHED FREE-STANDING SS DISCONNECT

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 3R, 4, 4X, 12; File Number E61997
cUL Listed per CSA C22.2 No. 94; Type 3, 3R, 4, 4X, 12; File No. E61997

NSF 169
NEMA/EEMAC: Type 3R, 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

The Hoffman WATERSHED stainless steel free-stand disconnect enclosure, with its unique design and type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in settings such as sanitary washdown production environments, petrochemical plants, pulp and paper facilities, and water treatment plants.

SPECIFICATIONS

- Manufactured from 12 gauge Type 304 stainless steel; back is 10 gauge
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by door edges
- Hinged side of door has provisions to allow direct flushing of hinge area
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits placement of objects on top of enclosure
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom edges to facilitate runoff
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Heavy-duty three-point latching mechanism operated by a Type 316 stainless steel POWERGLIDE padlocking handle on all doors
- Master door has POWERGLIDE handle with integral screwdriver defeater
- Mechanical interlock activated by master door prevents slave doors from being opened first. Doors can be closed in any order.
- Master door is far right-hand door on all enclosures
- Seamless foam-in-place one-piece gasket provides an oil-tight, watertight and dust-tight seal against contaminants
- Bonding provision on doors; grounding stud on body
- Accessory mounting channel provided in enclosure top
- Heavy-duty lifting eyes are Type 316 stainless steel
- Removable centerpost permits easy panel installation
- Panel studs accept optional NEMA-size panels
- Preferred cutout on right flange provides mounting for most disconnect operators
- Mounting holes in bottom of enclosure for direct mounting or for optional sanitary legs or stainless steel floor stands
- Furnished hardware kit consists of panel mounting nuts, grounding hardware and hole seals for bottom mounting holes

FINISH

Stainless steel enclosures are unpainted. External surfaces have a #4 brushed finish. Optional mild steel panels are painted white. Optional conductive panels are available.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Floor Stand Kit, page 1404
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Operator Adapters for Preferred Cutouts, page 442
Sanitary Leg Kits, page 395

BULLETIN: WS2D

nVent | HOFFMAN

Standard Product

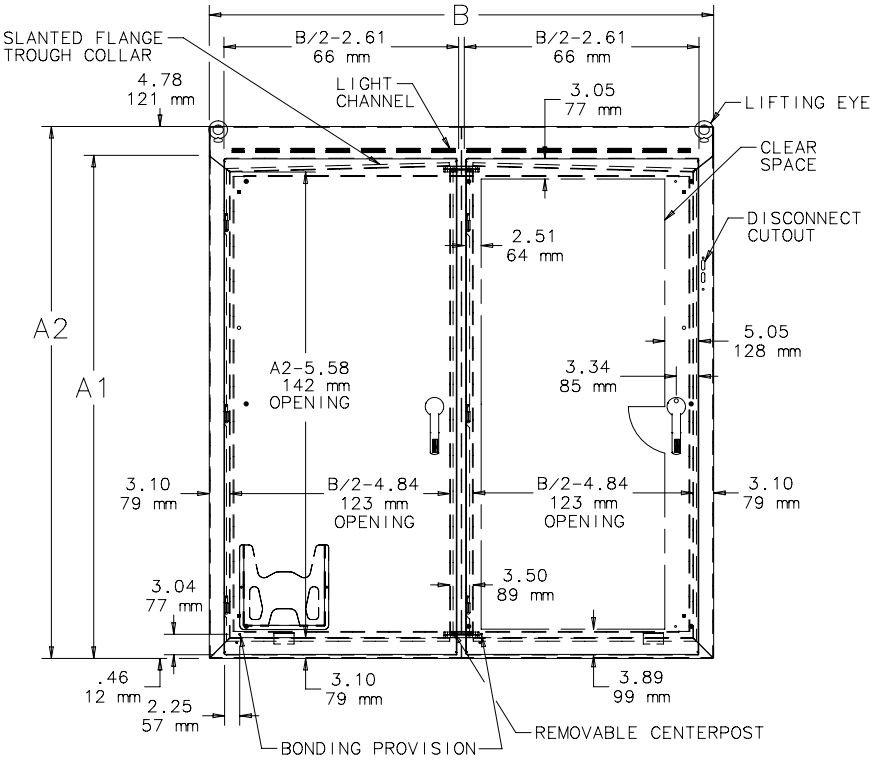
Catalog Number	AxBxC in./mm	A1 in./mm	A2 in./mm	B in./mm	C in./mm	Panel	Conductive Panel
WS62XM5112SS	62.00 x 51.00 x 12.00 1575 x 1295 x 305	62.81 1595	67.20 1707	51.09 1298	12.12 308	A60P48	A60P48G
WS62XM5118SS	62.00 x 51.00 x 18.00 1575 x 1295 x 457	62.81 1595	67.20 1707	51.09 1298	18.12 460	A60P48	A60P48G
WS62XM6312SS	62.00 x 63.00 x 12.00 1575 x 1600 x 305	62.81 1595	67.20 1707	63.09 1602	12.12 305	A60P60	A60P60G
WS62XM6318SS	62.00 x 63.00 x 18.00 1575 x 1600 x 457	62.81 1595	67.20 1707	63.09 1602	18.12 460	A60P60	A60P60G
WS74XM6312SS	74.00 x 63.00 x 12.00 1880 x 1600 x 305	74.81 1900	79.20 2012	63.09 1602	12.12 305	A72P60	A72P60G
WS74XM6318SS	74.00 x 63.00 x 18.00 1880 x 1600 x 457	74.81 1900	81.38 2067	63.09 1602	18.12 460	A72P60	A72P60G
WS74XM7512SS	74.00 x 75.00 x 12.00 1880 x 1905 x 305	74.81 1900	79.20 2012	75.09 1907	12.12 305	A72P72	A72P72G
WS74XM7518SS	74.00 x 75.00 x 18.00 1880 x 1905 x 457	74.81 1900	81.38 2067	75.09 1907	18.12 460	A72P72	A72P72G
WS74XM7524SS	74.00 x 75.00 x 24.00 1880 x 1905 x 610	74.81 1900	83.57 2123	75.09 1907	24.12 613	A72P72	A72P72G

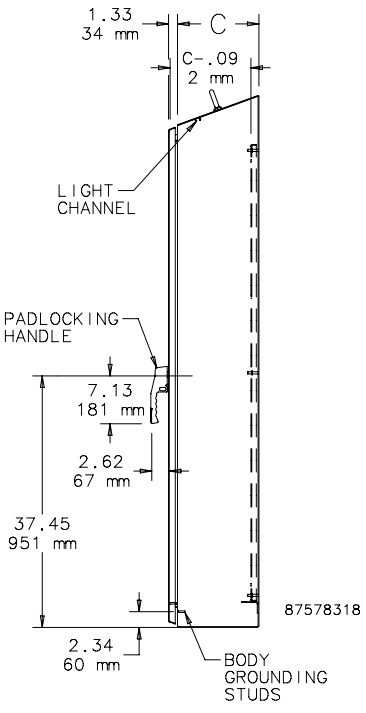
A x B x C are nominal dimensions.

Purchase panels separately.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods by the following manufacturers require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Cutler-Hammer C361 devices • Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see next paragraph for option) • General Electric Type TDA devices (see next paragraph for option) • Schneider Square D Class 9422 devices (see next paragraph for option)

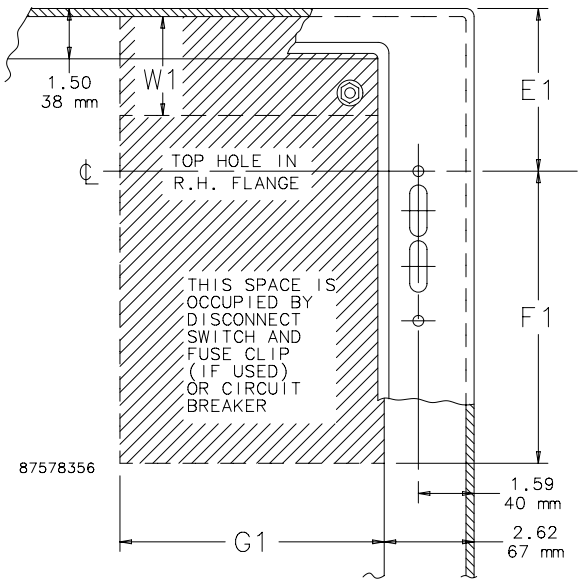
The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.





DISCONNECT MOUNTING SPACE

Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure.
E1 = 8.62 in. (219 mm) when C = 8.00 in. (203 mm)
E1 = 11.62 in. (295 mm) when C = 12.00 in. (305 mm)
W1 = Wiring Space.
See Technical Information for wire bend space.
Refer to *National Electrical Code* ® 2005 article 430.10(B) for wiring space required for line side conductors to be connected to disconnect. Verify your application to determine if wiring space is adequate.
Verify your application to determine if wiring space is adequate.



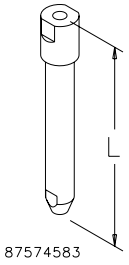
Consult disconnect manufacturer for F1 and G1 dimensions.

SANITARY LEG KITS

Sanitary Leg Kits provide space between the enclosure and the floor for better washdown accessibility. Available with fixed or independently adjustable legs. Adjustable leg shown. Four legs per kit. Maintains NEMA Type 4X rating when properly installed on a Hoffman Type 4X enclosure.

BULLETIN: WSY

Catalog Number	Description	Size L (in.)	Size L (mm)
WSASLKSS	Adjustable Sanitary Leg Kit	11.50 -12.50	292 -318
WSFSLKSS	Fixed Sanitary Leg Kit	12.00	305



UNIVERSAL CUTOUT OVERVIEW

APPLICATION

The universal cutout is used in large freestand and floorstand enclosures, i.e., Bulletins A21(S), A28(S), A34 and A4L3D. Operator Adapter Kits are required in order to install the various manufacturers' hardware. Note that 400A (or greater) disconnect switches and 600A (or greater) circuit breakers require the "Large" or "High Amp" cutout and large handle. A 200A (or less) disconnect switch and 400A (or less) circuit breaker require a small handle, which is provided in the ABL kit for Allen-Bradley variable-depth disconnect switches or the SITEL kit for Siemens (and select other manufacturers) flex-cable devices. The "Large" or "High Amp" cutout accepts the larger operating handle whose mounting hole centers are 6.500-in. apart.
Universal cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494F flange-mount disconnect switches and Bulletin 1494D flange-mount operators for circuit breakers
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable depth flange-mount molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange-mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

ABB Controls flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

Eaton Cutler-Hammer Type C361 disconnect switches and operator mechanisms, and Type C371 circuit breakers and circuit breaker operating mechanisms. Also Type SM safety handle mechanisms and FLEX SHAFT handle operators for circuit breakers.

General Electric Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX cable operators for circuit breakers.

Siemens ITE MAX FLEX® flange-mount variable-depth operating handles for disconnect switches and circuit breakers.

Schneider Square D® disconnect switches and circuit breakers used with Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms.
These enclosures will NOT receive Class 9422 bracket-mount disconnect devices, Class 9422TG1 or TG2 devices.

Disconnect Enclosures with Universal Cutout
Universal cutout requires an operator adapter for the brand and type of disconnect being used. See Disconnect Enclosure Accessories to select the operator adapter.

ORDERING

The disconnect switch, operating handle and operating mechanism must be ordered separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

All 24.12-in. (613-mm) and deeper enclosures require long connecting rods to be ordered in place of short connecting rods.

TWO-DOOR WITH FLOOR STANDS DISCONNECT ENCLOSURE, TYPE 12

SPECIFICATIONS

- 11 gauge steel (.121 inch)
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough excludes liquids and contaminants
- Removable centerposts permit easy panel installation
- Concealed, easy-to-remove hinges
- Heavy-duty 3-point latching mechanism operated by padlocking handle on all doors
- Heavy-duty lifting eyes anchor into reinforced top
- Data pocket is high impact thermoplastic
- 15-in. floor stands are welded to enclosure
- Provisions for mounting lights
- Oil-resistant door gasket
- Panel supports
- Collar studs provided for mounting optional panels
- Master door is right-hand door on X enclosures and left-hand door on CPX enclosures
- Integral defeater on master door handle requires a screwdriver to open
- Mechanical interlock operated by master door prevents slave door from being opened first. Doors can be closed in any order.
- Includes door hardware

FINISH

Two finishes are available: ANSI 61 gray, polyester powder paint outside and inside; or ANSI 61 outside and white, polyester powder paint inside. Optional panels have white or conductive finish.

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

A disconnect can be installed on the centerpost or right side of this enclosure. Floor stands provide additional height and access for cleaning under the enclosure.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Operator Adapters for Universal Cutouts, page 442
PANELITE Enclosure Lights, page 1393
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A21

Standard Product **Provision for Disconnect Operator on Right Flange**

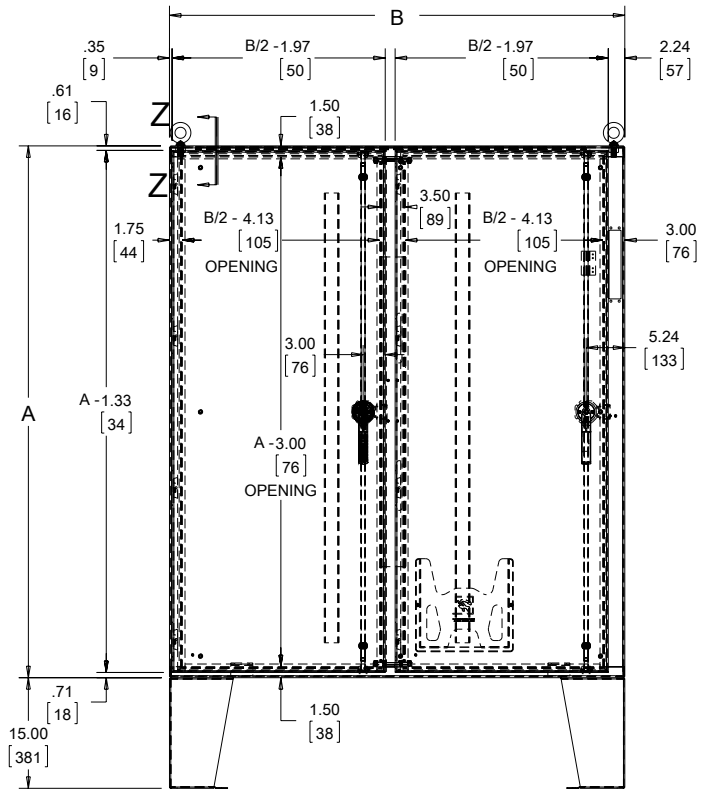
Catalog Number	AxBxC in.	AxBxC mm	Panel	Interior Finish	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Stiffener Position S (in.)	Stiffener Position S (mm)
A60X4912LPFTCG	60.12 x 49.75 x 12.12	1527 x 1264 x 308	A60P48	Gray	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X4912LPFTC	60.13 x 49.75 x 12.12	1527 x 1264 x 308	A60P48	White	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X6112LPFTCG	60.12 x 61.75 x 12.12	1527 x 1568 x 308	A60P60	Gray	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A60X6112LPFTC	60.13 x 61.75 x 12.12	1527 x 1568 x 308	A60P60	White	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A72X6112LPFTCG	72.12 x 61.75 x 12.12	1832 x 1568 x 308	A72P60	Gray	A72P60G	68.00 x 56.00	1727 x 1422	21.00	533
A72X6112LPFTC	72.13 x 61.75 x 12.12	1832 x 1568 x 308	A72P60	White	A72P60G	68.00 x 56.00	1727 x 1422	21.00	533
A72X7312LPFTCG	72.12 x 73.75 x 12.12	1832 x 1873 x 308	A72P72	Gray	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72X7312LPFTC	72.13 x 73.75 x 12.12	1832 x 1873 x 308	A72P72	White	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A60X4918LPFTCG	60.12 x 49.75 x 18.12	1527 x 1264 x 460	A60P48	Gray	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X4918LPFTC	60.13 x 49.75 x 18.12	1527 x 1264 x 460	A60P48	White	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X6118LPFTCG	60.12 x 61.75 x 18.12	1527 x 1568 x 460	A60P60	Gray	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A60X6118LPFTC	60.13 x 61.75 x 18.12	1527 x 1568 x 460	A60P60	White	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A72X6118LPFTCG	72.12 x 61.75 x 18.12	1832 x 1568 x 460	A72P60	Gray	A72P60G	68.00 x 56.00	1727 x 1422	21.00	533
A72X6118LPFTC	72.13 x 61.75 x 18.12	1832 x 1568 x 460	A72P60	White	A72P60G	68.00 x 56.00	1727 x 1422	21.00	533
A72X7318LPFTCG	72.12 x 73.75 x 18.12	1832 x 1873 x 460	A72P72	Gray	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72X7318LPFTC	72.13 x 73.75 x 18.12	1832 x 1873 x 460	A72P72	White	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A60X4924LPFTCG	60.12 x 49.75 x 24.12	1527 x 1264 x 613	A60P48	Gray	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X4924LPFTC	60.12 x 49.75 x 24.12	1527 x 1264 x 613	A60P48	White	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60X6124LPFTCG	60.12 x 61.75 x 24.12	1527 x 1568 x 613	A60P60	Gray	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A60X6124LPFTC	60.12 x 61.75 x 24.12	1527 x 1568 x 613	A60P60	White	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A72X7324LPFTCG	72.12 x 73.75 x 24.12	1832 x 1873 x 613	A72P72	Gray	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72X7324LPFTC	72.13 x 73.75 x 24.12	1832 x 1873 x 613	A72P72	White	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610

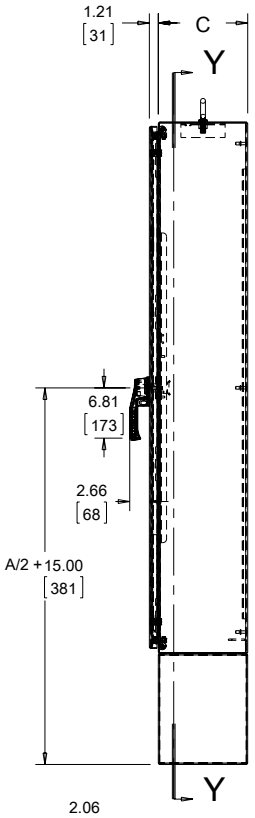
Purchase panels separately.

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCLPA, purchased separately. • ABB Controls flange-operated devices • Eaton Cutler-Hammer C361 devices • Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see footnote below) • General Electric Type TDA devices (see footnote below) • Schneider Square D Class 9422 devices (see footnote below)

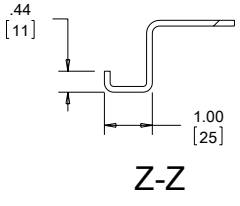
The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

Disconnect Operator on Right Flange

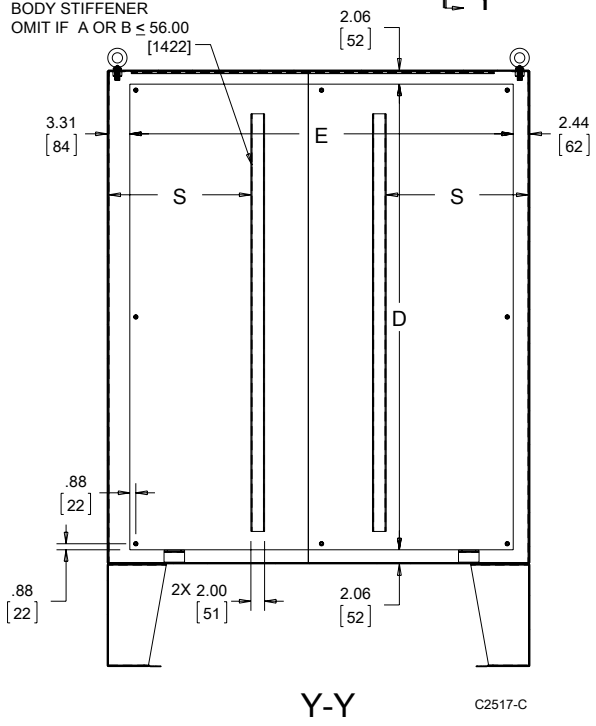




Notes:
Panels are .121-in. steel. Order separately.
Right door is master door.



Z-Z



Y-Y

C2517-C

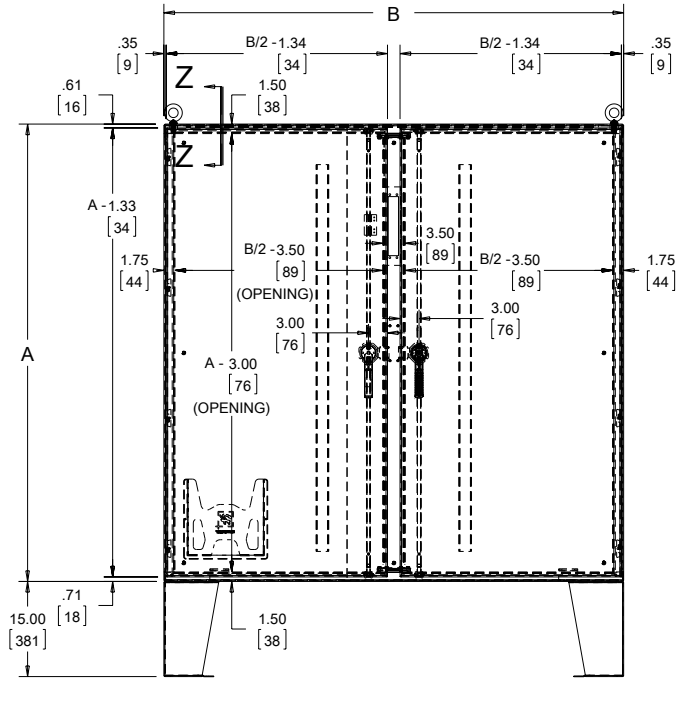
Standard Product **Provision for Disconnect Operator on Centerpost**

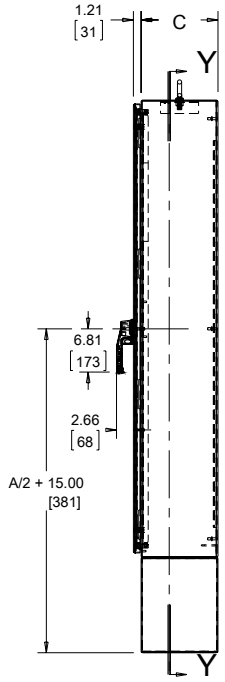
Catalog Number	AxBxC in.	AxBxC mm	Panel	Conductive Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Stiffener Position S (in.)	Stiffener Position S (mm)
A60CPX4812LPFTCG	60.12 x 48.50 x 12.12	1527 x 1232 x 308	A60P48	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60CPX4812LPFTC	60.13 x 48.50 x 12.12	1527 x 1232 x 308	A60P48	A60P48G	56.00 x 44.00	1422 x 1118	None	None
A60CPX6012LPFTCG	60.12 x 60.50 x 12.12	1527 x 1537 x 308	A60P60	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A60CPX6012LPFTC	60.13 x 60.50 x 12.12	1527 x 1537 x 308	A60P60	A60P60G	56.00 x 56.00	1422 x 1422	21.00	533
A72CPX7212LPFTCG	72.12 x 72.50 x 12.12	1832 x 1842 x 308	A72P72	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72CPX7212LPFTC	72.13 x 72.50 x 12.12	1832 x 1842 x 308	A72P72	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72CPX7218LPFTCG	72.12 x 72.50 x 18.12	1832 x 1842 x 460	A72P72	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610
A72CPX7218LPFTC	72.13 x 72.50 x 18.12	1832 x 1842 x 460	A72P72	A72P72G	68.00 x 68.00	1727 x 1727	24.00	610

Purchase panels separately.

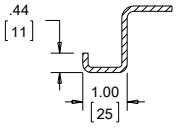
The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod. • For General Electric devices, order catalog number TDSR extended length drive rod • For Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

Disconnect Operator on Centerpost

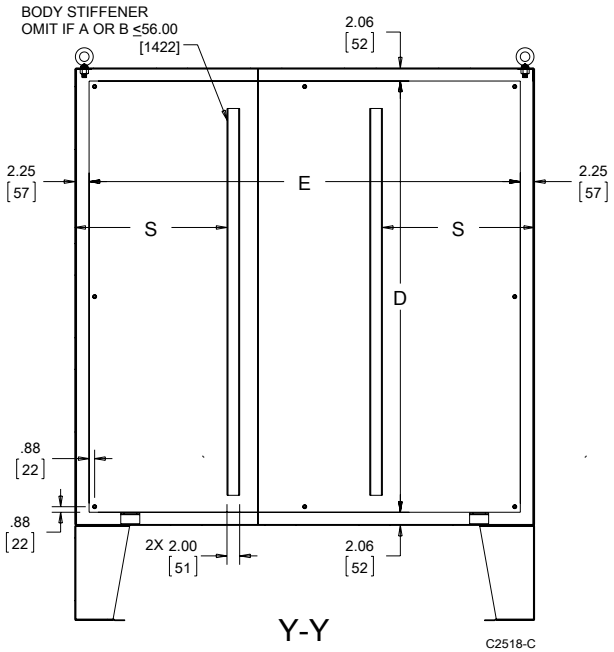




Notes:
Panels are .121 steel. Order separately.
Left door is master door.



Z-Z



Y-Y

C2518-C

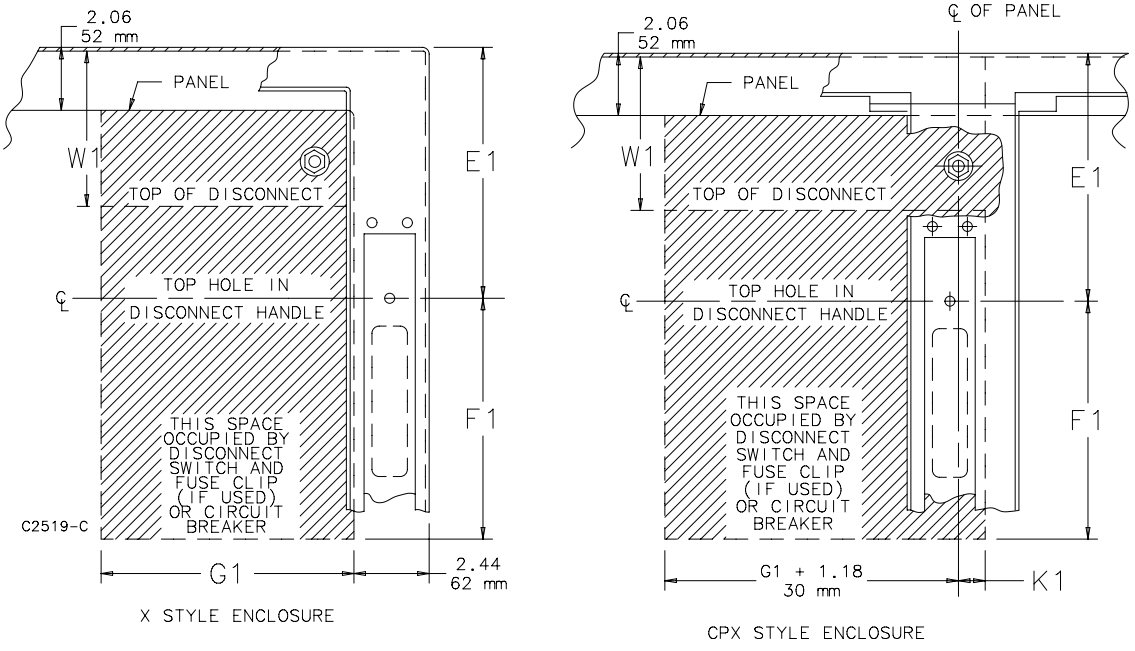
DISCONNECT MOUNTING SPACE

Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure. See Technical Information chapter for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

W1 = Wiring Space
See Technical Information chapter for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

HEAVY-DUTY FREE-STAND DISCONNECT ENCLOSURE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

Simple, heavy-duty and cost-effective, this disconnect enclosure can be ordered with one to six doors to fit a range of applications.

SPECIFICATIONS

- 11 gauge steel (.121 inch)
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough excludes liquids and contaminants
- Heavy-duty lifting eyes anchor into reinforced top
- Removable centerposts permit easy panel installation
- Concealed, easy-to-remove hinges
- Heavy-duty 3-point latching mechanism operated by padlocking handle on all doors
- Panel supports
- Data pocket is high-impact thermoplastic
- Oil-resistant gasket
- Master door is far right-hand door on all enclosures
- Defeater on primary door requires a screwdriver to open
- Mechanical interlock activated by master door prevents slave doors from being opened first; doors can be closed in any order
- Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters
- Models available with panel included or panel sold separately
- FTC models include removable painted 10 gauge steel panels which mount on collar studs
- Includes door hardware

FINISH

Two finishes are available: ANSI 61 gray, polyester powder paint outside and inside; or ANSI 61 outside and white, polyester powder paint inside. Panels have white or conductive finish.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Operator Adapters for Universal Cutouts, page 442
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electrical Interlocks, page 1390
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A28M1, A28M2, A28MM

Standard Product **One-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Painted Panel	Conductive Panel	Panel Size (in.)	Panel Size (mm)
A72XM2818FTCG	72.12 x 28.25 x 18.12	1832 x 718 x 460	Gray	With	A72PM28	A72PM28G	60.00 x 21.75	1524 x 552
A72XM2818FTC	72.12 x 28.25 x 18.12	1832 x 718 x 460	White	With	A72PM28	A72PM28G	60.00 x 21.75	1524 x 552
A72XM2818FTCLPG	72.12 x 28.25 x 18.12	1832 x 718 x 460	Gray	Without	–	–	–	–
A72XM2818FTCLP	72.12 x 28.25 x 18.12	1832 x 718 x 460	White	Without	–	–	–	–
A72XM3418FTCG	72.12 x 34.25 x 18.12	1832 x 870 x 460	Gray	With	A72PM34	A72PM34G	60.00 x 27.75	1524 x 705
A72XM3418FTC	72.12 x 34.25 x 18.12	1832 x 870 x 460	White	With	A72PM34	A72PM34G	60.00 x 27.75	1524 x 705
A72XM3418FTCLPG	72.12 x 34.25 x 18.12	1832 x 870 x 460	Gray	Without	–	–	–	–
A72XM3418FTCLP	72.12 x 34.25 x 18.12	1832 x 870 x 460	White	Without	–	–	–	–
A72XM4018FTCG	72.12 x 40.25 x 18.12	1832 x 1022 x 460	Gray	With	A72PM40	A72PM40G	60.00 x 33.75	1524 x 857
A72XM4018FTC	72.12 x 40.25 x 18.12	1832 x 1022 x 460	White	With	A72PM40	A72PM40G	60.00 x 33.75	1524 x 857
A72XM4018FTCLPG	72.12 x 40.25 x 18.12	1832 x 1022 x 460	Gray	Without	–	–	–	–
A72XM4018FTCLP	72.12 x 40.25 x 18.12	1832 x 1022 x 460	White	Without	–	–	–	–
A84XM4018FTCG	84.12 x 40.25 x 18.12	2137 x 1022 x 460	Gray	With	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857
A84XM4018FTC	84.12 x 40.25 x 18.12	2137 x 1022 x 460	White	With	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857
A84XM4018FTCLPG	84.12 x 40.25 x 18.12	2137 x 1022 x 460	Gray	Without	–	–	–	–
A84XM4018FTCLP	84.12 x 40.25 x 18.12	2137 x 1022 x 460	White	Without	–	–	–	–
A90XM4018FTCG	90.12 x 40.25 x 18.12	2289 x 1022 x 460	Gray	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4018FTC	90.12 x 40.25 x 18.12	2289 x 1022 x 460	White	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4018FTCLPG	90.12 x 40.25 x 18.12	2289 x 1022 x 460	Gray	Without	–	–	–	–
A90XM4018FTCLP	90.12 x 40.25 x 18.12	2289 x 1022 x 460	White	Without	–	–	–	–
A90XM4020FTCG	90.12 x 40.25 x 20.12	2289 x 1022 x 511	Gray	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4020FTC	90.12 x 40.25 x 20.12	2289 x 1022 x 511	White	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4020FTCLPG	90.12 x 40.25 x 20.12	2289 x 1022 x 511	Gray	Without	–	–	–	–
A90XM4020FTCLP	90.12 x 40.25 x 20.12	2289 x 1022 x 511	White	Without	–	–	–	–
A84XM4024FTCG	84.12 x 40.25 x 24.12	2137 x 1022 x 613	Gray	With	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857
A84XM4024FTC	84.12 x 40.25 x 24.12	2137 x 1022 x 613	White	With	A84PM40	A84PM40G	72.00 x 33.75	1829 x 857

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Painted Panel	Conductive Panel	Panel Size (in.)	Panel Size (mm)
A84XM4024FTCLPG	84.12 x 40.25 x 24.12	2137 x 1022 x 613	Gray	Without	—	—	—	—
A84XM4024FTCLP	84.12 x 40.25 x 24.12	2137 x 1022 x 613	White	Without	—	—	—	—
A90XM4024FTCG	90.12 x 40.25 x 24.12	2289 x 1022 x 613	Gray	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4024FTC	90.12 x 40.25 x 24.12	2289 x 1022 x 613	White	With	A90PM40	A90PM40G	78.00 x 33.75	1981 x 857
A90XM4024FTCLPG	90.12 x 40.25 x 24.12	2289 x 1022 x 613	Gray	Without	—	—	—	—
A90XM4024FTCLP	90.12 x 40.25 x 24.12	2289 x 1022 x 613	White	Without	—	—	—	—

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Cutler-Hammer C361 devices • Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2. • For General Electric devices, order catalog number TDSR extended length drive rod • For Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.

Enclosures with panel include a painted panel. Order conductive panels separately.

Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Stiffener Locations (in.)	Stiffener Locations (mm)	Painted Panel	Conductive Panel	Panel Size (in.)	Panel Size (mm)
A72XM5418FTCG	72.12 x 54.50 x 18.12	1832 x 1384 x 460	Gray	With	None	None	A72PM54	A72PM54G	60.00 x 48.00	1524 x 1219
A72XM5418FTC	72.12 x 54.50 x 18.12	1832 x 1384 x 460	White	With	None	None	A72PM54	A72PM54G	60.00 x 48.00	1524 x 1219
A72XM5418FTCLPG	72.12 x 54.50 x 18.12	1832 x 1384 x 460	Gray	Without	None	None	—	—	—	—
A72XM5418FTCLP	72.12 x 54.50 x 18.12	1832 x 1384 x 460	White	Without	None	None	—	—	—	—
A72XM6618FTCG	72.12 x 66.50 x 18.12	1832 x 1689 x 460	Gray	With	21.00	533	A72PM66	A72PM66G	60.00 x 60.00	1524 x 1524
A72XM6618FTC	72.12 x 66.50 x 18.12	1832 x 1689 x 460	White	With	21.00	533	A72PM66	A72PM66G	60.00 x 60.00	1524 x 1524
A72XM6618FTCLPG	72.12 x 66.50 x 18.12	1832 x 1689 x 460	Gray	Without	21.00	533	—	—	—	—
A72XM6618FTCLP	72.12 x 66.50 x 18.12	1832 x 1689 x 460	White	Without	21.00	533	—	—	—	—
A72XM7818FTCG	72.12 x 78.50 x 18.12	1832 x 1994 x 460	Gray	With	24.00	610	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A72XM7818FTC	72.12 x 78.50 x 18.12	1832 x 1994 x 460	White	With	24.00	610	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A72XM7818FTCLPG	72.12 x 78.50 x 18.12	1832 x 1994 x 460	Gray	Without	24.00	610	—	—	—	—
A72XM7818FTCLP	72.12 x 78.50 x 18.12	1832 x 1994 x 460	White	Without	24.00	610	—	—	—	—
A84XM7818FTCG	84.12 x 78.50 x 18.12	2137 x 1994 x 460	Gray	With	24.00	610	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A84XM7818FTC	84.12 x 78.50 x 18.12	2137 x 1994 x 460	White	With	24.00	610	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A84XM7818FTCLPG	84.12 x 78.50 x 18.12	2137 x 1994 x 460	Gray	Without	24.00	610	—	—	—	—
A84XM7818FTCLP	84.12 x 78.50 x 18.12	2137 x 1994 x 460	White	Without	24.00	610	—	—	—	—
A90XM7818FTCG	90.12 x 78.50 x 18.12	2289 x 1994 x 460	Gray	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7818FTC	90.12 x 78.50 x 18.12	2289 x 1994 x 460	White	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7818FTCLPG	90.12 x 78.50 x 18.12	2289 x 1994 x 460	Gray	Without	24.00	610	—	—	—	—
A90XM7818FTCLP	90.12 x 78.50 x 18.12	2289 x 1994 x 460	White	Without	24.00	610	—	—	—	—
A90XM7820FTCG	90.12 x 78.50 x 20.12	2289 x 1994 x 511	Gray	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7820FTC	90.12 x 78.50 x 18.12	2289 x 1994 x 460	White	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7820FTCLPG	90.12 x 78.50 x 20.12	2289 x 1994 x 511	Gray	Without	24.00	610	—	—	—	—
A90XM7820FTCLP	90.12 x 78.50 x 20.12	2289 x 1994 x 511	White	Without	24.00	610	—	—	—	—
A72XM7824FTCG	72.12 x 78.50 x 24.12	1832 x 1994 x 613	Gray	With	24.00	610	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A72XM7824FTC	72.12 x 78.50 x 24.12	1832 x 1994 x 613	White	With	24.00	610	A72PM78	A72PM78G	60.00 x 72.00	1524 x 1829
A72XM7824FTCLPG	72.12 x 78.50 x 24.12	1832 x 1994 x 613	Gray	Without	24.00	610	—	—	—	—
A72XM7824FTCLP	72.12 x 78.50 x 24.12	1832 x 1994 x 613	White	Without	24.00	610	—	—	—	—
A84XM7824FTCG	84.12 x 78.50 x 24.12	2137 x 1994 x 613	Gray	With	24.00	610	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A84XM7824FTC	84.12 x 78.50 x 24.12	2137 x 1994 x 613	White	With	24.00	610	A84PM78	A84PM78G	72.00 x 72.00	1829 x 1829
A84XM7824FTCLPG	84.12 x 78.50 x 24.12	2137 x 1994 x 613	Gray	Without	24.00	610	—	—	—	—
A84XM7824FTCLP	84.12 x 78.50 x 24.12	2137 x 1994 x 613	White	Without	24.00	610	—	—	—	—
A90XM7824FTCG	90.12 x 78.50 x 24.12	2289 x 1994 x 613	Gray	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7824FTC	90.12 x 78.50 x 24.12	2289 x 1994 x 613	White	With	24.00	610	A90PM78	A90PM78G	78.00 x 72.00	1981 x 1829
A90XM7824FTCLPG	90.12 x 78.50 x 24.12	2289 x 1994 x 613	Gray	Without	24.00	610	—	—	—	—
A90XM7824FTCLP	90.12 x 78.50 x 24.12	2289 x 1994 x 613	White	Without	24.00	610	—	—	—	—

Enclosures with panel include a painted panel. Order conductive panels separately.

Standard Product **Three-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Large Painted Panel	Large Conductive Panel	No. of Large Panels	Large Panel Size (in.)	Large Panel Size (mm)	Small Painted Panel	Small Conductive Panel	No. of Small Panels	Small Panel Size (in.)	Small Panel Size (mm)
A72XM3EQ18FTCG	72.12 x 100.75 x 18.12	1832 x 2559 x 460	Gray	With	A72PM66	A72PM66G	1	60.00 x 60.00	1524 x 1524	A72PM34	A72PM34G	1	60.00 x 27.75	1524 x 705
A72XM3EQ18FTC	72.12 x 100.75 x 18.12	1832 x 2559 x 460	White	With	A72PM66	A72PM66G	1	60.00 x 60.00	1524 x 1524	A72PM34	A72PM34G	1	60.00 x 27.75	1524 x 705
A72XM3EQ18FTCLPG	72.12 x 100.75 x 18.12	1832 x 2559 x 460	Gray	Without	—	—	—	—	—	—	—	—	—	—
A72XM3EQ18FTCLP	72.12 x 100.75 x 18.12	1832 x 2559 x 460	White	Without	—	—	—	—	—	—	—	—	—	—
A72XM3EW18FTCG	72.12 x 118.75 x 18.12	1832 x 3016 x 460	Gray	With	A72PM78	A72PM78G	1	60.00 x 72.00	1524 x 1829	A72PM40	A72PM40G	1	60.00 x 33.75	1524 x 857
A72XM3EW18FTC	72.12 x 118.75 x 18.12	1832 x 3016 x 460	White	With	A72PM78	A72PM78G	1	60.00 x 72.00	1524 x 1829	A72PM40	A72PM40G	1	60.00 x 33.75	1524 x 857
A72XM3EW18FTCLPG	72.12 x 118.75 x 18.12	1832 x 3016 x 460	Gray	Without	—	—	—	—	—	—	—	—	—	—
A72XM3EW18FTCLP	72.12 x 118.75 x 18.12	1832 x 3016 x 460	White	Without	—	—	—	—	—	—	—	—	—	—
A84XM3EW18FTCG	84.12 x 118.75 x 18.12	2137 x 3016 x 460	Gray	With	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM3EW18FTC	84.12 x 118.75 x 18.12	2137 x 3016 x 460	White	With	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM3EW18FTCLPG	84.12 x 118.75 x 18.12	2137 x 3016 x 460	Gray	Without	—	—	—	—	—	—	—	—	—	—
A84XM3EW18FTCLP	84.12 x 118.75 x 18.12	2137 x 3016 x 460	White	Without	—	—	—	—	—	—	—	—	—	—
A84XM3EW24FTCG	84.12 x 118.75 x 24.12	2137 x 3016 x 613	Gray	With	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM3EW24FTC	84.12 x 118.75 x 24.12	2137 x 3016 x 613	White	With	A84PM78	A84PM78G	1	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM3EW24FTCLPG	84.12 x 118.75 x 24.12	2137 x 3016 x 613	Gray	Without	—	—	—	—	—	—	—	—	—	—
A84XM3EW24FTCLP	84.12 x 118.75 x 24.12	2137 x 3016 x 613	White	Without	—	—	—	—	—	—	—	—	—	—
A90XM3EW24FTCG	90.12 x 118.75 x 24.12	2289 x 3016 x 613	Gray	With	A90PM78	A90PM78G	1	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Large Painted Panel	Large Conductive Panel	No. of Large Panels	Large Panel Size (in.)	Large Panel Size (mm)	Small Painted Panel	Small Conductive Panel	No. of Small Panels	Small Panel Size (in.)	Small Panel Size (mm)
A90XM3EW24FTC	90.12 x 118.75 x 24.12	2289 x 3016 x 613	White	With	A90PM78	A90PM78G	1	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857
A90XM3EW24FTCLPG	90.12 x 118.75 x 24.12	2289 x 3016 x 613	Gray	Without	—	—	—	—	—	—	—	—	—	—
A90XM3EW24FTCLP	90.12 x 118.75 x 24.12	2289 x 3016 x 613	White	Without	—	—	—	—	—	—	—	—	—	—

Enclosures with panel include a painted panel. Order conductive panels separately.

Standard Product **Four-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Large Painted Panel	Conductive Large Panel	Number of Large Panels	Size of Large Panels (in.)	Size of Large Panels (mm)
A84XM4EW18FTCG	84.12 x 158.00 x 18.12	2137 x 4013 x 460	Gray	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829
A84XM4EW18FTC	84.12 x 158.00 x 18.12	2137 x 4013 x 460	White	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829
A84XM4EW18FTCLPG	84.12 x 158.00 x 18.12	2137 x 4013 x 460	Gray	Without	—	—	—	—	—
A84XM4EW18FTCLP	84.12 x 158.00 x 18.12	2137 x 4013 x 460	White	Without	—	—	—	—	—
A90XM4EW18FTCG	90.12 x 158.00 x 18.12	2289 x 4013 x 460	Gray	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829
A90XM4EW18FTC	90.12 x 158.00 x 18.12	2289 x 4012 x 460	White	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829
A90XM4EW18FTCLPG	90.12 x 158.00 x 18.12	2289 x 4013 x 460	Gray	Without	—	—	—	—	—
A90XM4EW18FTCLP	90.12 x 158.00 x 18.12	2289 x 4013 x 460	White	Without	—	—	—	—	—
A84XM4EW24FTCG	84.12 x 158.00 x 24.12	2137 x 4013 x 613	Gray	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829
A84XM4EW24FTC	84.12 x 158.00 x 24.12	2137 x 4013 x 613	White	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829
A84XM4EW24FTCLPG	84.12 x 158.00 x 24.12	2137 x 4013 x 613	Gray	Without	—	—	—	—	—
A84XM4EW24FTCLP	84.12 x 158.00 x 24.12	2137 x 4013 x 613	White	Without	—	—	—	—	—
A90XM4EW24FTCG	90.12 x 158.00 x 24.12	2289 x 4013 x 613	Gray	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829
A90XM4EW24FTC	90.12 x 158.00 x 24.12	2289 x 4013 x 613	White	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829
A90XM4EW24FTCLPG	90.12 x 158.00 x 24.12	2289 x 4013 x 613	Gray	Without	—	—	—	—	—
A90XM4EW24FTCLP	90.12 x 158.00 x 24.12	2289 x 4013 x 613	White	Without	—	—	—	—	—

Enclosures with panel include a painted panel. Order conductive panels separately.

Standard Product **Five-Door Enclosures**

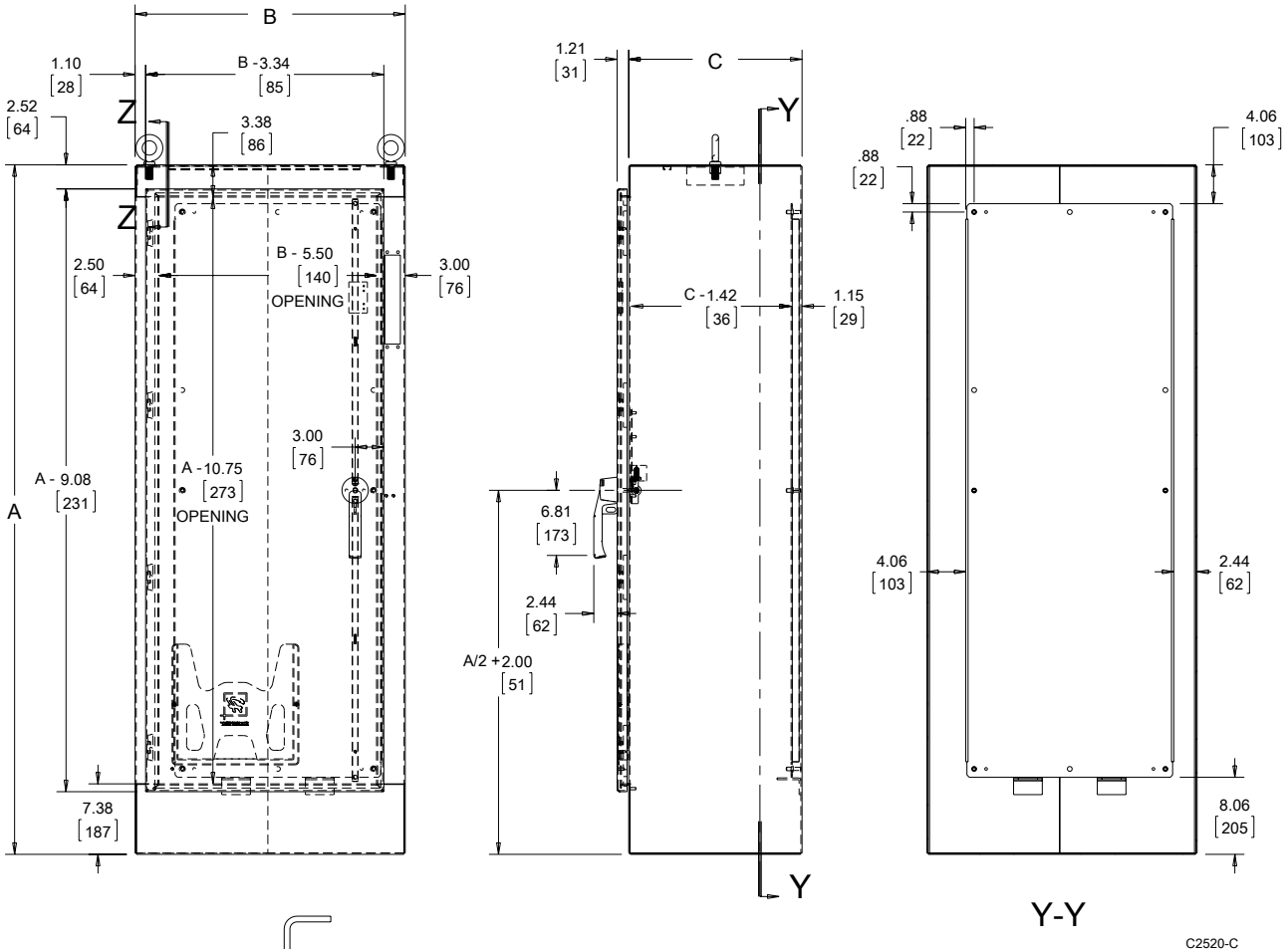
Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Large Painted Panel	Conductive Large Panel	No. of Large Panels	Large Panel Size (in.)	Large Panel Size (mm)	Small Painted Panel	Conductive Small Panel	No. of Small Panels	Small Panel Size (in.)	Small Panel Size (mm)
A84XM5EW18FTCG	84.12 x 197.75 x 18.12	2137 x 5023 x 460	Gray	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM5EW18FTC	84.12 x 197.75 x 18.12	2137 x 5023 x 460	White	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM5EW18FTCLPG	84.12 x 197.75 x 18.12	2137 x 5023 x 460	Gray	Without	—	—	—	—	—	—	—	—	—	—
A84XM5EW18FTCLP	84.12 x 197.75 x 18.12	2137 x 5023 x 460	White	Without	—	—	—	—	—	—	—	—	—	—
A90XM5EW18FTCG	90.12 x 197.75 x 18.12	2289 x 5023 x 460	Gray	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857
A90XM5EW18FTC	90.12 x 197.75 x 18.12	2289 x 5023 x 460	White	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857
A90XM5EW18FTCLPG	90.12 x 197.75 x 18.12	2289 x 5023 x 460	Gray	Without	—	—	—	—	—	—	—	—	—	—
A90XM5EW18FTCLP	90.12 x 197.75 x 18.12	2289 x 5023 x 460	White	Without	—	—	—	—	—	—	—	—	—	—
A84XM5EW24FTCG	84.12 x 197.75 x 24.12	2137 x 5023 x 613	Gray	With	A84PM78	A84PM78G		72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM5EW24FTC	84.12 x 197.75 x 24.12	2137 x 5023 x 613	White	With	A84PM78	A84PM78G	2	72.00 x 72.00	1829 x 1829	A84PM40	A84PM40G	1	72.00 x 33.75	1829 x 857
A84XM5EW24FTCLPG	84.12 x 197.75 x 24.12	2137 x 5023 x 613	Gray	Without	—	—	—	—	—	—	—	—	—	—
A84XM5EW24FTCLP	84.12 x 197.75 x 24.12	2137 x 5023 x 613	White	Without	—	—	—	—	—	—	—	—	—	—
A90XM5EW24FTCG	90.12 x 197.75 x 24.12	2289 x 5023 x 613	Gray	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857
A90XM5EW24FTC	90.12 x 197.75 x 24.12	2289 x 5023 x 613	White	With	A90PM78	A90PM78G	2	78.00 x 72.00	1981 x 1829	A90PM40	A90PM40G	1	78.00 x 33.75	1981 x 857
A90XM5EW24FTCLPG	90.12 x 197.75 x 24.12	2289 x 5023 x 613	Gray	Without	—	—	—	—	—	—	—	—	—	—
A90XM5EW24FTCLP	90.12 x 197.75 x 24.12	2289 x 5023 x 613	White	Without	—	—	—	—	—	—	—	—	—	—

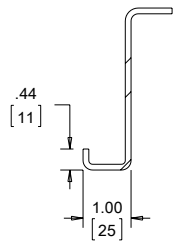
Enclosures with panel include a painted panel. Order conductive panels separately.

Standard Product **Six-Door Enclosures**

Catalog Number	AxBxC in.	AxBxC mm	Interior Finish	With or Without Panel	Large Painted Panel	Conductive Large Panel	Number of Large Panels	Size of Large Panels (in.)	Size of Large Panels (mm)
A84XM6EW24FTCG	84.12 x 236.00 x 24.12	2137 x 5994 x 613	Gray	With	A84PM78	A84PM78G	3	72.00 x 72.00	1829 x 1829
A84XM6EW24FTC	84.12 x 236.00 x 24.12	2137 x 5994 x 613	White	With	A84PM78	A84PM78G	3	72.00 x 72.00	1829 x 1829
A84XM6EW24FTCLPG	84.12 x 236.00 x 24.12	2137 x 5994 x 613	Gray	Without	—	—	—	—	—
A84XM6EW24FTCLP	84.12 x 236.00 x 24.12	2137 x 5994 x 613	White	Without	—	—	—	—	—
A90XM6EW24FTCG	90.12 x 236.00 x 24.12	2289 x 5994 x 613	Gray	With	A90PM78	A90PM78G	3	78.00 x 72.00	1981 x 1829
A90XM6EW24FTC	90.12 x 236.00 x 24.12	2289 x 5994 x 613	White	With	A90PM78	A90PM78G	3	78.00 x 72.00	1981 x 1829
A90XM6EW24FTCLPG	90.12 x 236.00 x 24.12	2289 x 5994 x 613	Gray	Without	—	—	—	—	—
A90XM6EW24FTCLP	90.12 x 236.00 x 24.12	2289 x 5994 x 613	White	Without	—	—	—	—	—

Enclosures with panel include a painted panel. Order conductive panels separately.

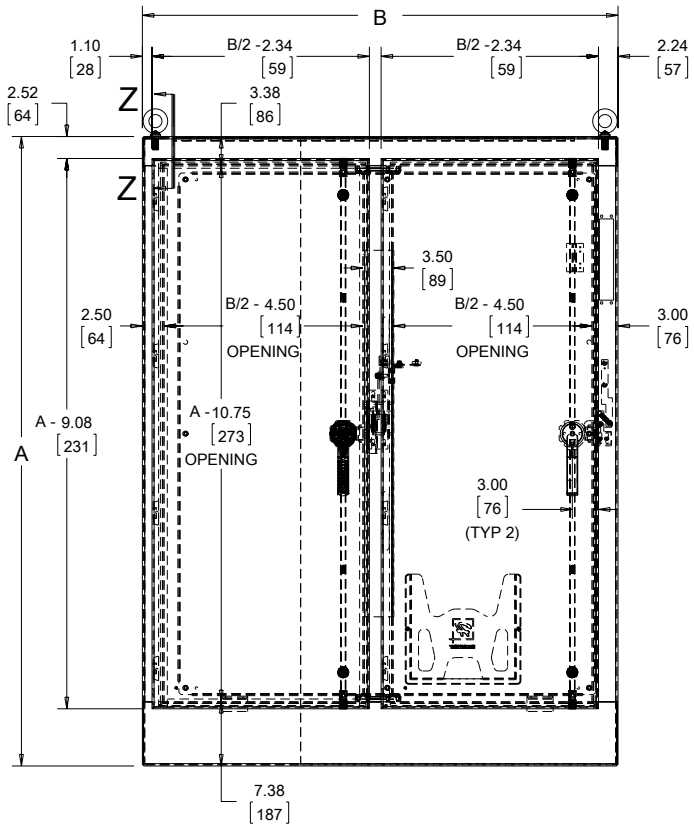


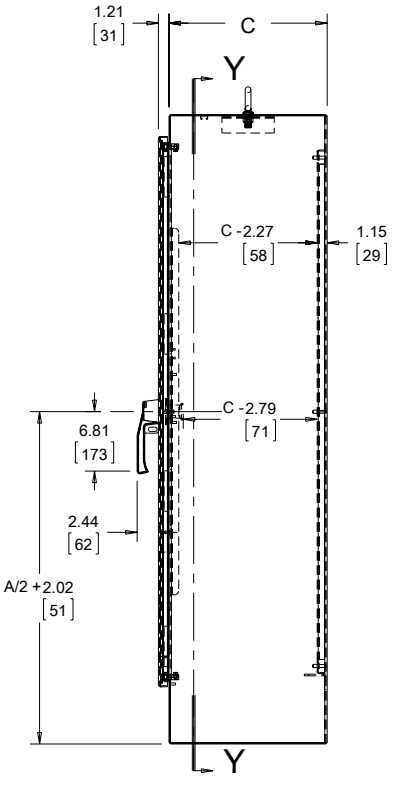


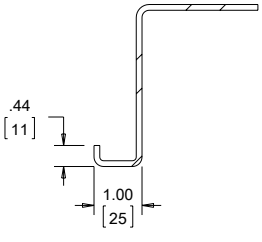
Z-Z

Note:
.121-in. steel panel is furnished with FTC enclosures.
FTCLP models are less panel; panels can be purchased separately.
See catalog table for size.

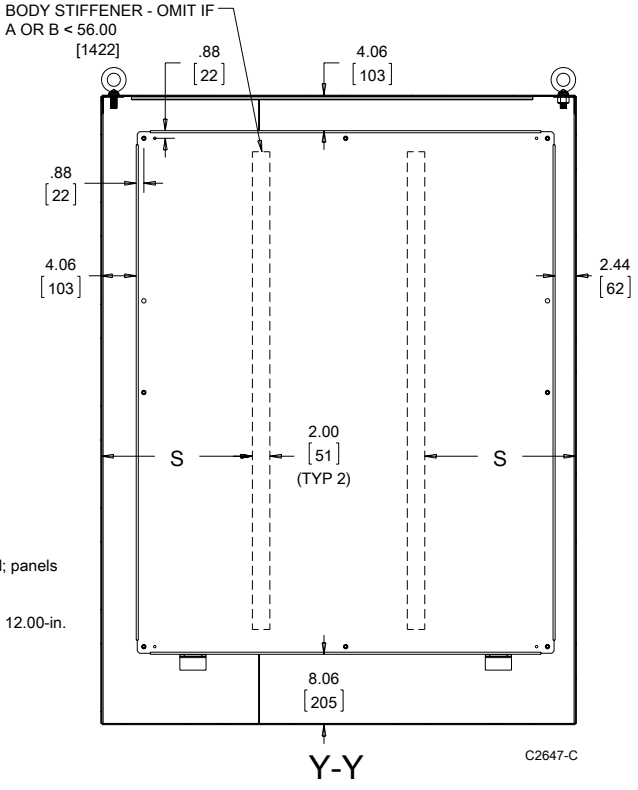
TWO-DOOR ENCLOSURE







Z-Z



Y-Y

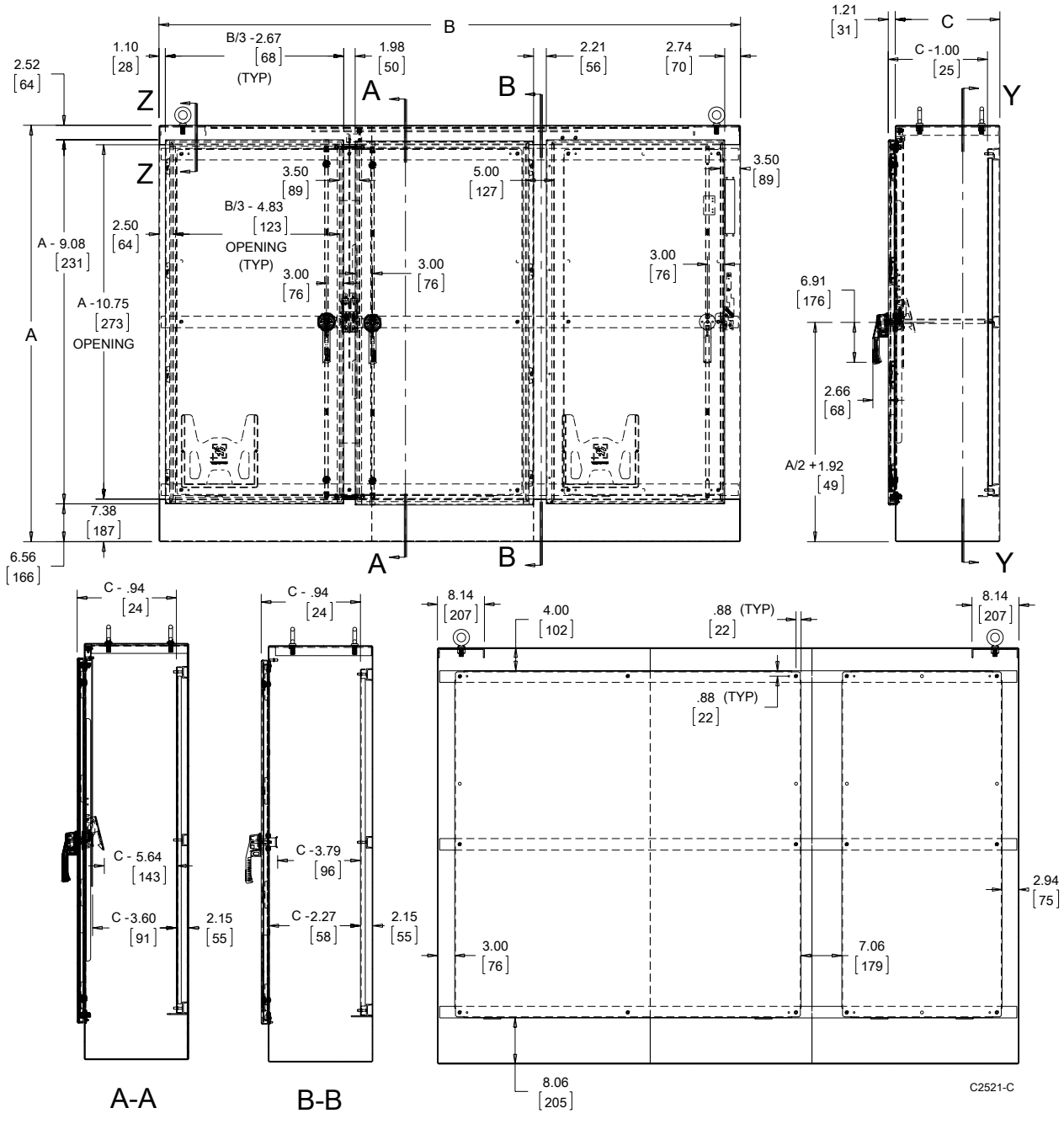
C2647-C

Notes:
.121-in. steel panel is furnished with FTC enclosures. FTCLP models are less panel; panels can be purchased separately. See catalog number table for size.

Right door is master door. All doors hinged on left side include a removable 12.00 x 12.00-in. [305 x 305 mm] data pocket.

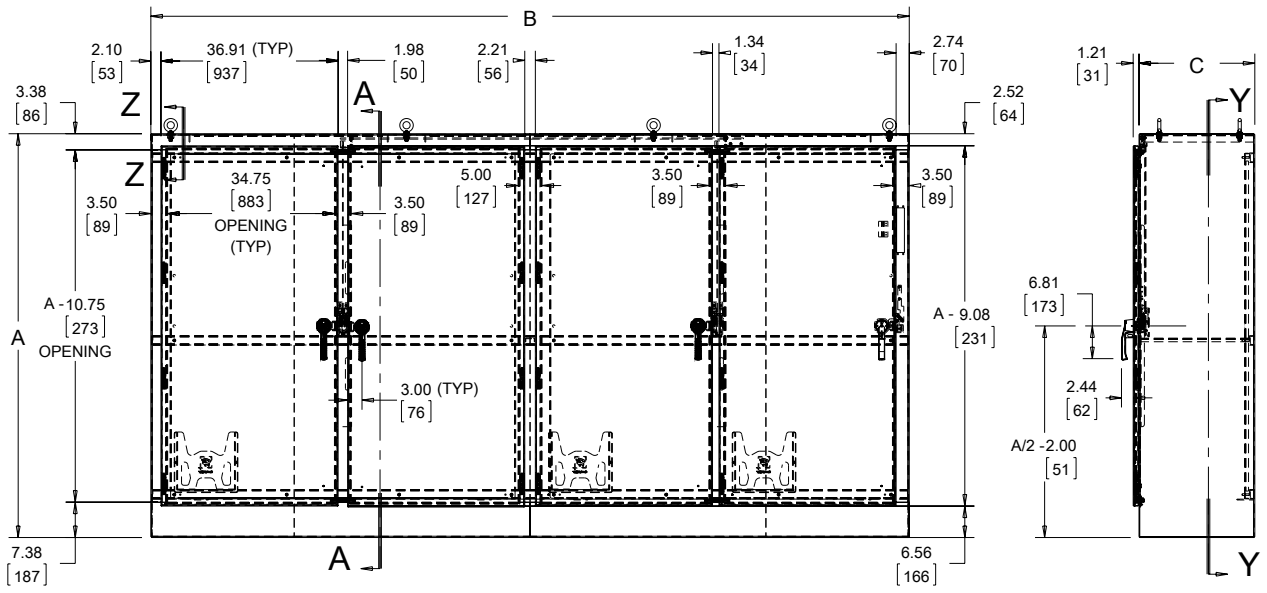
Number of panel mounting studs varies with panel width.

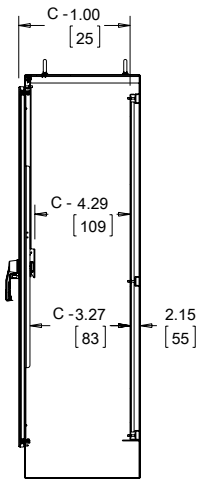
Three-Door Enclosure



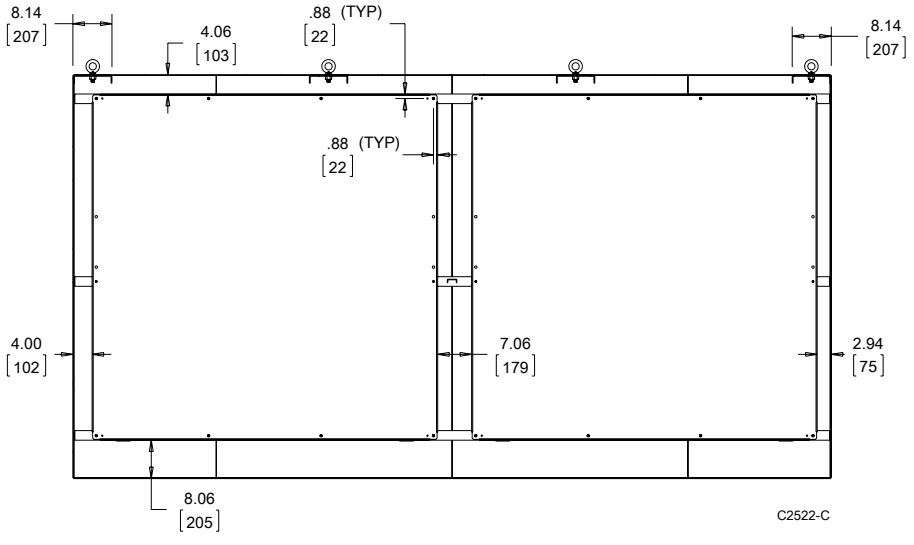
Notes:
.121-in. steel panel is furnished with FTC enclosures. FTCLP models are less panel; panels can be purchased separately. See catalog number table for size.
Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 in. [305 x 305 mm] data pocket.
Number of panel mounting studs varies with panel width.

Four-Door Enclosure

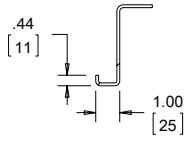




A-A



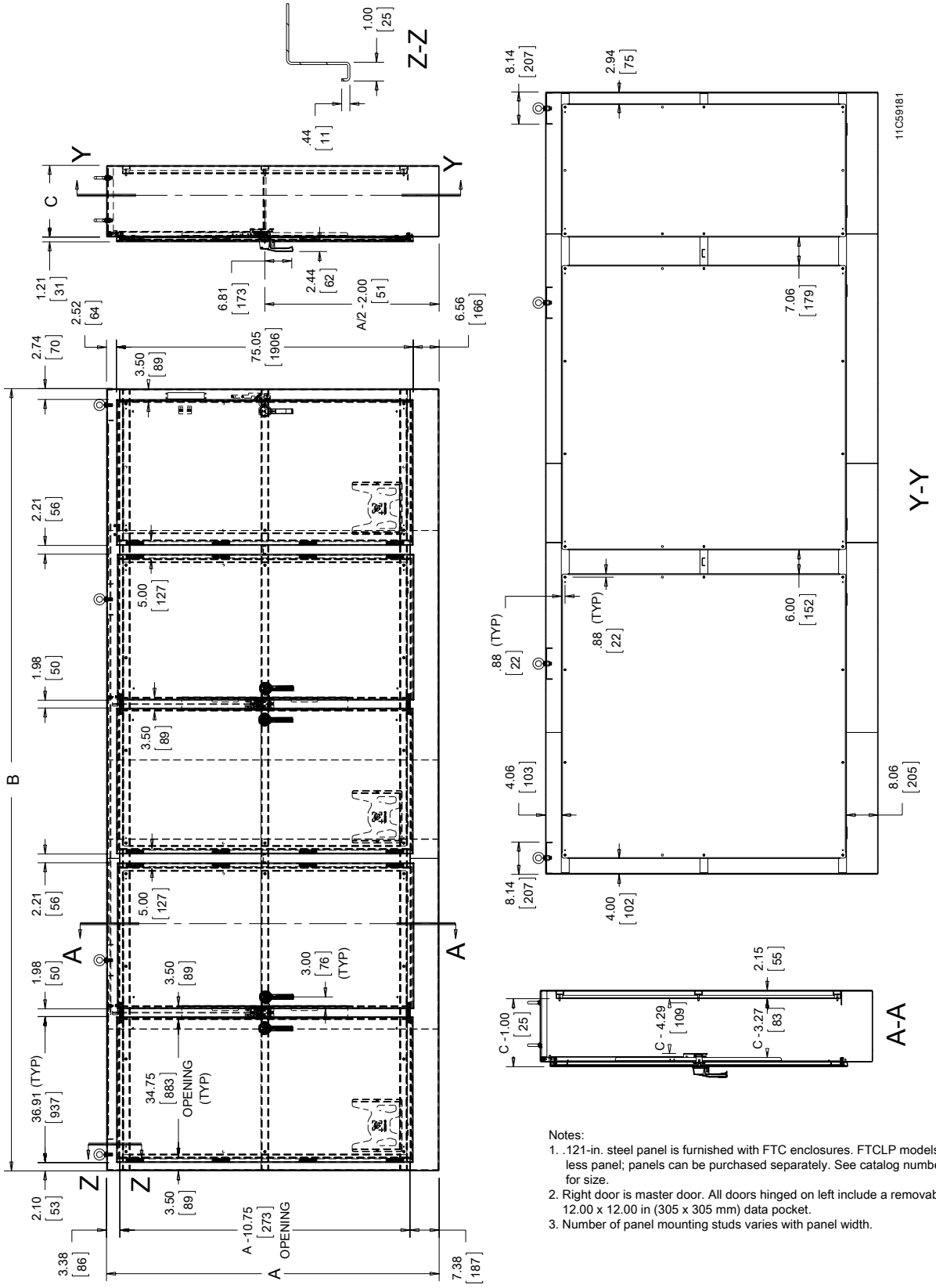
Y-Y



Z-Z

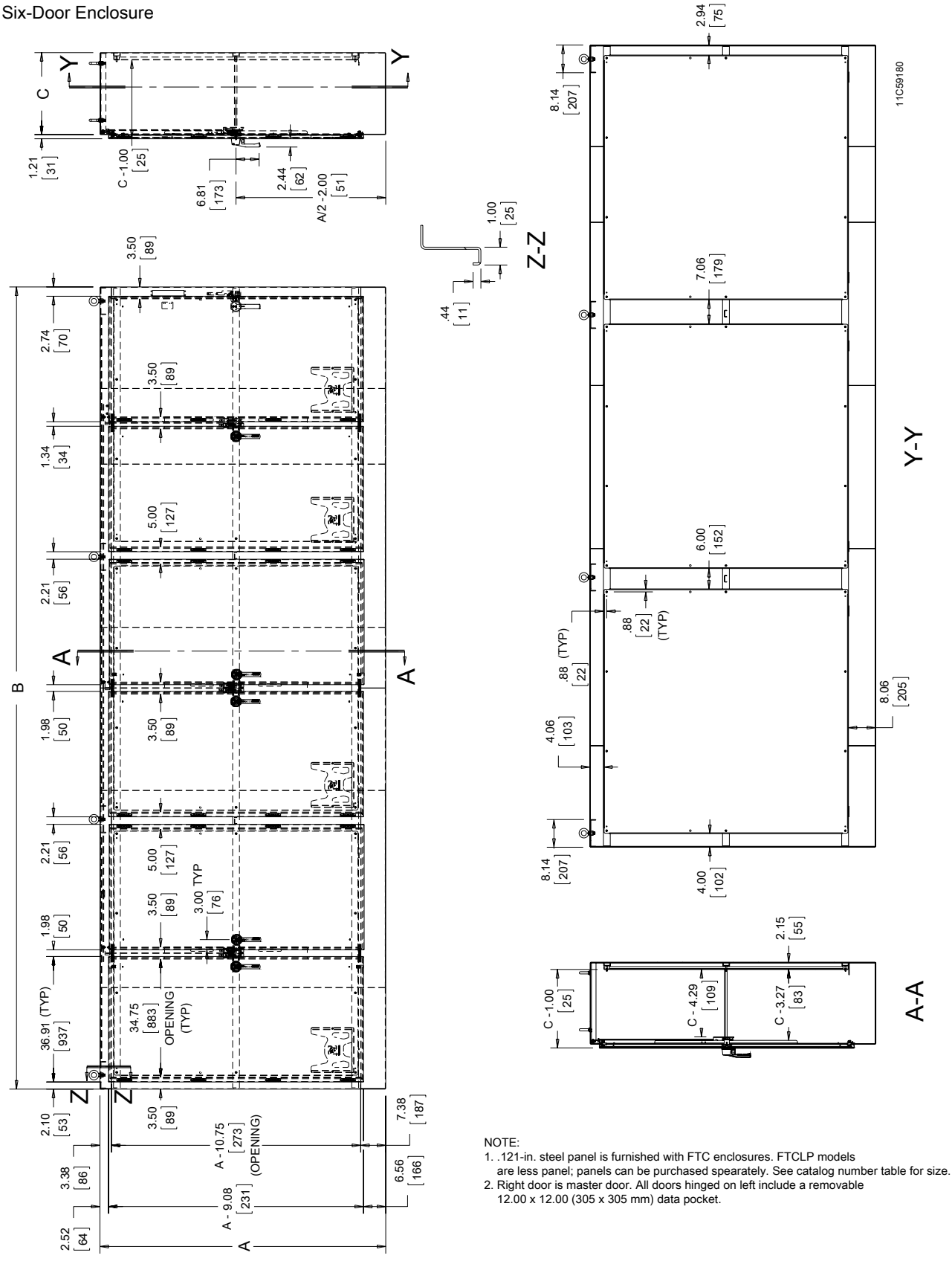
NOTE:
1. .121-in. steel panel is furnished with FTC enclosures. FTCLP models are less panel; panels can be purchased separately. See catalog number table for size.
2. Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 (305 x 305 mm) data pocket.

Five-Door Enclosure



Notes:
1. .121-in. steel panel is furnished with FTC enclosures. FTCLP models are less panel; panels can be purchased separately. See catalog number table for size.
2. Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 in (305 x 305 mm) data pocket.
3. Number of panel mounting studs varies with panel width.

Six-Door Enclosure



NOTE:
1. .121-in. steel panel is furnished with FTC enclosures. FTCLP models are less panel; panels can be purchased spearately. See catalog number table for size.
2. Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 (305 x 305 mm) data pocket.

FREE-STAND DISCONNECT WITH QUICK-RELEASE CONTINUOUS HINGE, TYPE 4

APPLICATION

Simple, heavy-duty with easy door removal and re-installation, this disconnect enclosure can be ordered with one to three doors to fit a range of applications.

SPECIFICATIONS

- Quick-release continuous hinge
- 11 gauge steel (.121 inch)
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough excludes liquids and contaminants
- Heavy-duty lifting eyes anchor into reinforced top
- Removable centerposts permit easy panel installation
- Heavy-duty 3-point latching mechanism operated by padlocking handle on all doors
- Panel supports
- Data pocket is high-impact thermoplastic
- Oil-resistant gasket
- Master door is far right-hand door on all enclosures
- Defeater on primary door requires a screwdriver to open
- Mechanical interlock activated by master door prevents slave doors from being opened first; doors can be closed in any order
- Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters
- Includes door hardware
- Models do not include panels; painted or conductive panels sold separately

FINISH

ANSI 61 gray, polyester powder paint outside and inside.

ACCESSORIES

Panels for Free-Stand, Multi-Door Enclosures (Bulletins A27, A28, A28S4 and A34), page 1336
Operator Adapters for Universal Cutouts, page 442
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electrical Interlocks, page 1390
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12, 3R; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12, 3R; File No. E61997

NEMA/EEMAC Type 4, 12, 3R
IEC 60529, IP66

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A4L3D

Standard Product **One-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	Painted Panel	Conductive Panel	Panel Size in./mm
A72XM3418FTCLP4	72.12 x 33.50 x 18.12 1832 x 851 x 460	Gray	A72PM34	A72PM34G	60.00 x 27.75 1524 x 705
A72XM4018FTCLP4	72.12 x 40.25 x 18.12 1832 x 1022 x 460	Gray	A72PM40	A72PM40G	60.00 x 33.75 1524 x 857
A84XM4018FTCLP4	84.12 x 40.25 x 18.12 2137 x 1022 x 460	Gray	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
A90XM4018FTCLP4	90.12 x 40.25 x 18.12 2289 x 1022 x 460	Gray	A90PM40	A90PM40G	78.00 x 33.75 1981 x 857

Order painted or conductive panel separately.

Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	Stiffener Locations in./mm	Painted Panel	Conductive Panel	Panel Size in./mm
A72XM5418FTCLP4	72.12 x 54.50 x 18.12 1832 x 1384 x 460	Gray	None None	A72PM54	A72PM54G	60.00 x 48.00 1524 x 1219
A72XM6618FTCLP4	72.12 x 66.50 x 18.12 1832 x 1689 x 460	Gray	21.00 533	A72PM66	A72PM66G	60.00 x 60.00 1524 x 1524
A72XM7818FTCLP4	72.12 x 78.50 x 18.12 1832 x 1994 x 460	Gray	24.00 610	A72PM78	A72PM78G	60.00 x 72.00 1524 x 1829
A84XM7818FTCLP4	84.12 x 78.50 x 18.12 2137 x 1994 x 460	Gray	24.00 610	A84PM78	A84PM78G	72.00 x72.00 1829 x 857
A90XM7818FTCLP4	90.12 x 78.50 x 18.12 2289 x 1994 x 460	Gray	24.00 610	A90PM78	A90PM78G	78.00 x 72.00 1981 x 1829

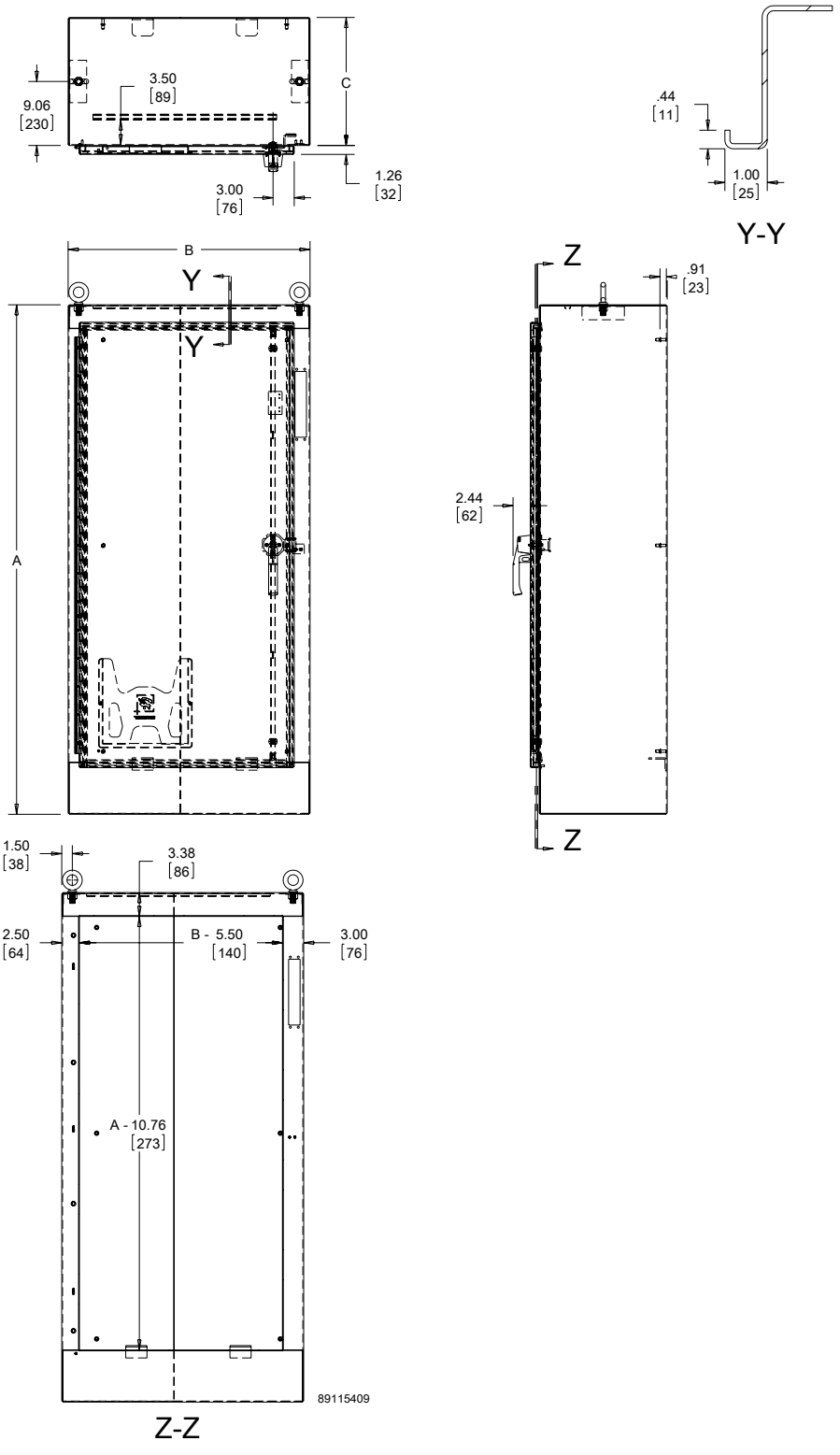
Order painted or conductive panel separately.

Standard Product **Three-Door Enclosures**

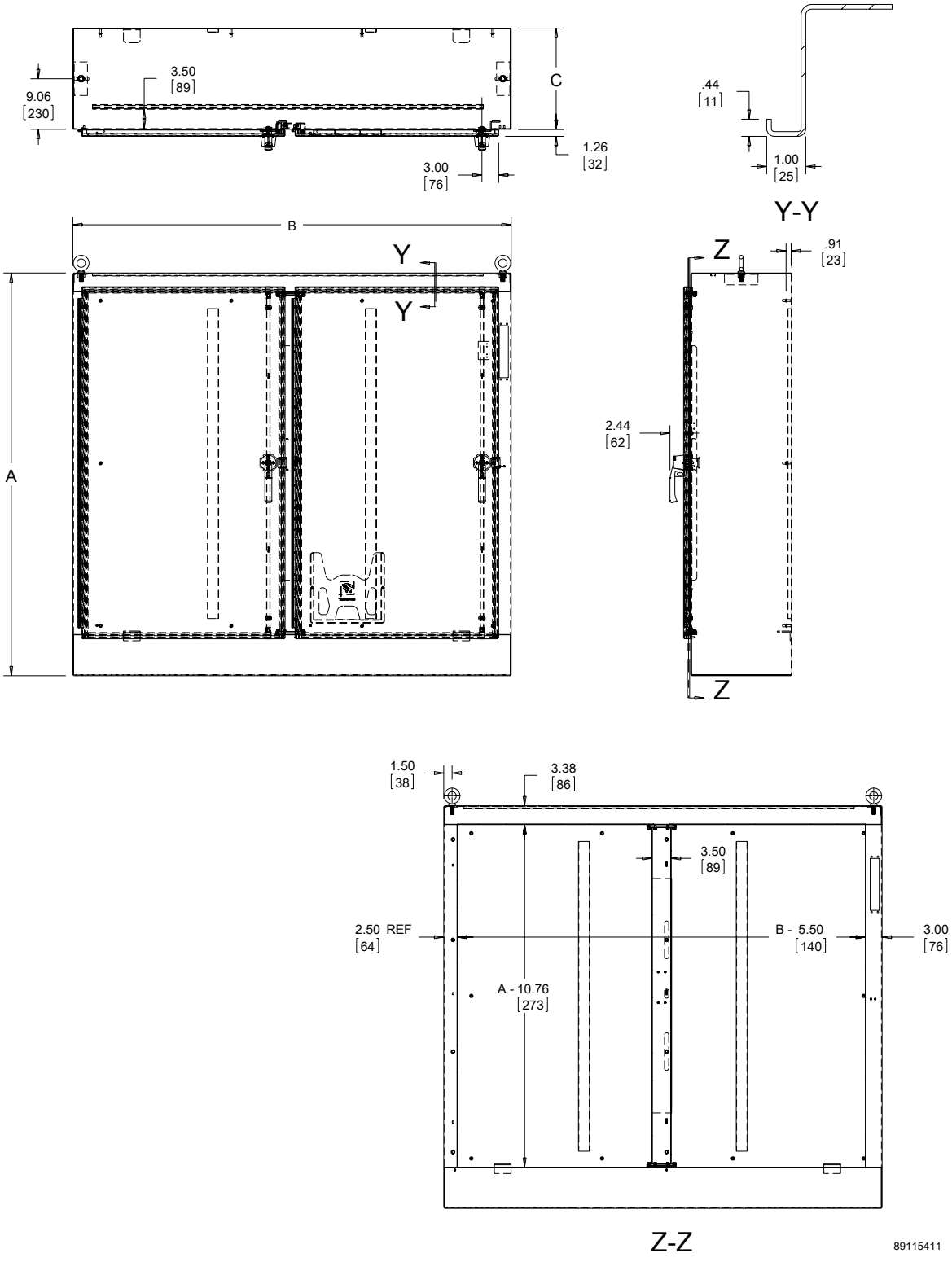
Catalog Number	AxBxC in./mm	Interior Finish	Large Painted Panel	Large Conductive Panel	No. of Large Panels	Large Panel Size in./mm	Small Painted Panel	Small Conductive Panel	No. of Small Panels	Small Panel Size in./mm
A84XM3EW18FTCLP4	84.12 x 118.75 x 18.12 2137 x 3016 x 460	Gray	A84PM78	A84PM78G	1	72.00 x 72.00 1829 x 1829	A84PM40	A84PM40G	1	72.0 x 33.75 1829 x 857

Order painted or conductive panel separately.

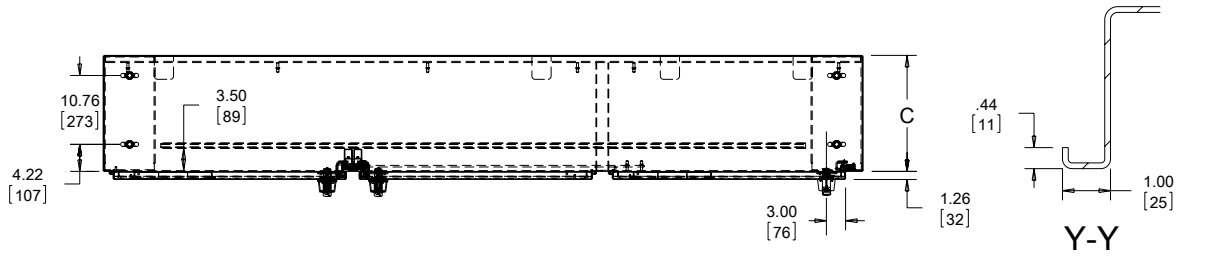
ONE-DOOR ENCLOSURE

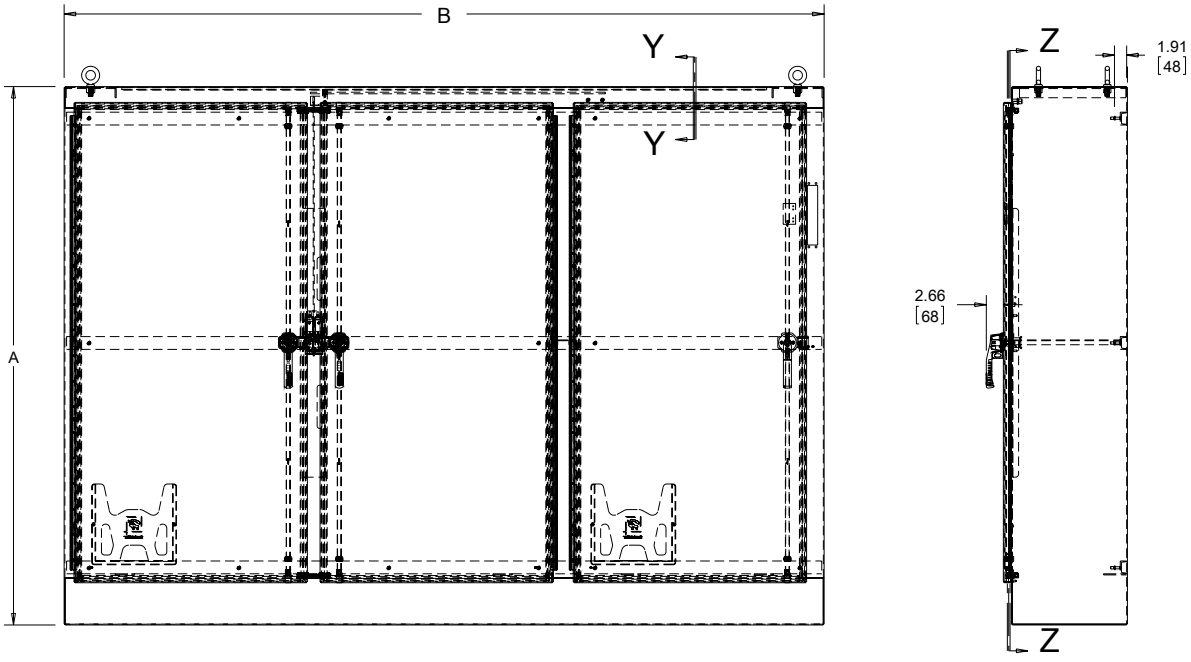


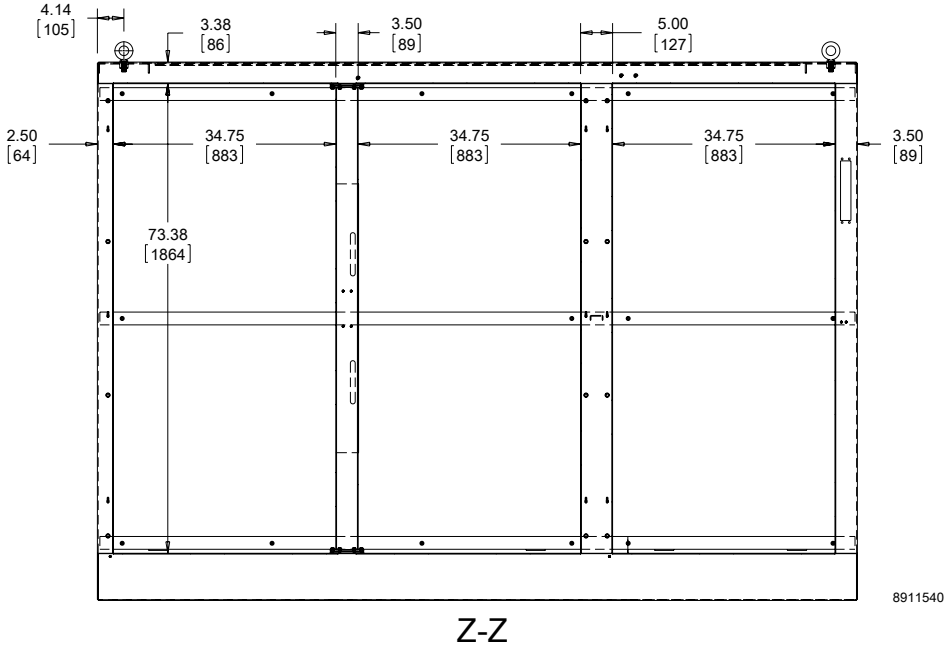
TWO-DOOR ENCLOSURE



THREE-DOOR ENCLOSURE







Z-Z

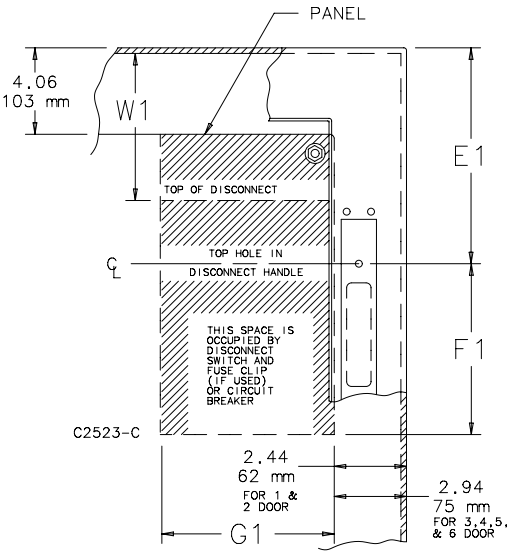
DISCONNECT MOUNTING SPACE

Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure. See Technical Information chapter for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

W1 = Wiring Space
See Technical Information chapter for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

MODULAR DISCONNECT ENCLOSURE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

Modular disconnect enclosures provide configuration flexibility and versatility. One- and two-door models can be bolted together in any configuration. Slave enclosures can be added or removed as required.

FEATURES

One-Door Disconnect Enclosure (left side open): Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters. Right side is closed since disconnect operator cannot be obscured by a door. Master door is hinged on left. Defeater on master door requires a screwdriver to open. Master door activates mechanical interlock which prevents slave doors from being opened first. Doors may be closed in any order. Interlock is furnished.

Two-Door Disconnect Enclosure (left side open): Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters. Right side is closed. Master door is right-hand door. Both doors hinged on left. Defeater on master door requires a screwdriver to open. Master door activates mechanical interlock which prevents slave doors from being opened first. Doors may be closed in any order. Removable centerpost permits easy panel installation. Interlock is furnished.

One-Door Slave Enclosure (both sides open): Door hinged on left. Interlock is furnished.

Two-Door Slave Enclosure (both sides open): Right-hand door hinged on right and left-hand door hinged on left. Removable centerpost permits easy panel installation. Interlock is furnished.

SPECIFICATIONS

- 11 gauge steel (.121 inch)
- Seams are continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough excludes liquids and contaminants
- Heavy-duty lifting eyes anchor into reinforced top
- Concealed, easy-to-remove hinges
- Heavy-duty 3-point latching mechanism operated by padlocking handle on all doors
- Data pocket is high-impact thermoplastic
- Oil-resistant door gasket
- Panel supports
- Removable 11 gauge steel panels mount on collar studs
- Bonding provision on door
- Mechanical interlock standard on each enclosure; parts required to connect interlock system between adjacent enclosures are provided
- Interlock rods are furnished with enclosures; gasket kits and end plate purchased separately
- Models available with panel include painted panel; conductive panel sold separately

FINISH

ANSI 61 gray finish inside and outside over pretreated surfaces. Panels have white or conductive finish. Flat end plates are ANSI 61 gray inside and outside.

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Operator Adapters for Universal Cutouts, page 442
End Plates, page 422
Barriers, page 423
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Electrical Interlocks, page 1390
HOL-SEALERS Hole Seals, page 1374
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419
Center Panel Supports, page 1341

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A34

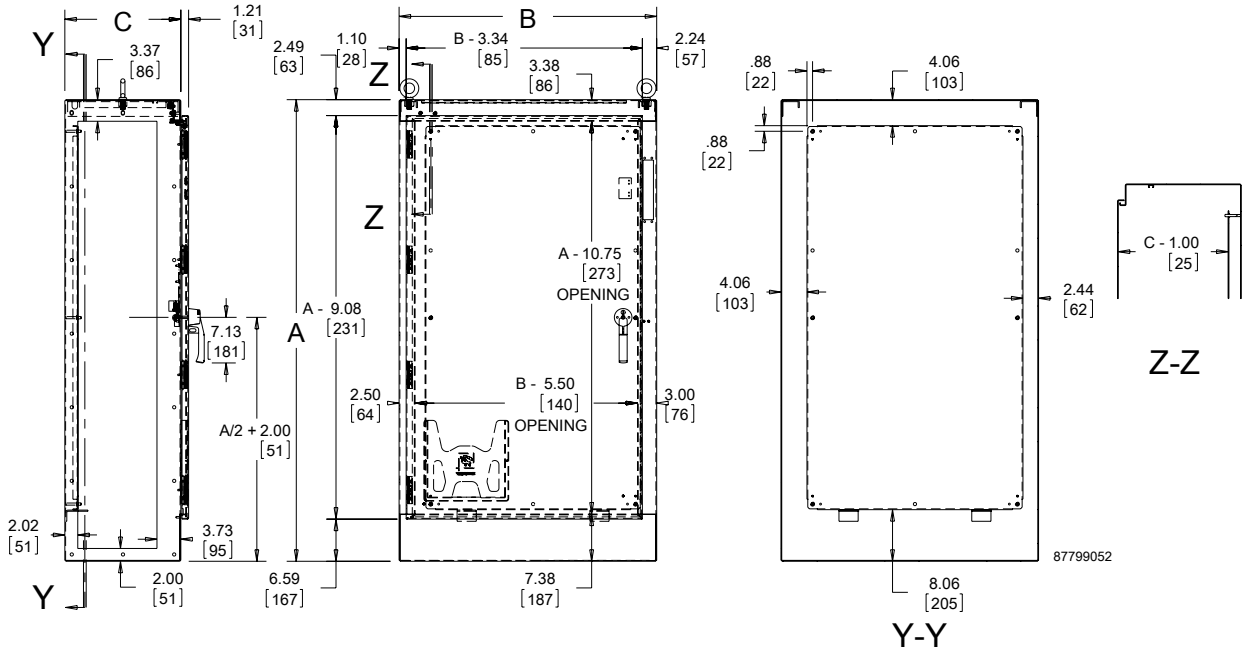
Standard Product **Master Modular Type 12 Enclosures for Flange-Mount Disconnects, One-Door (left side open)**

Catalog Number	AxBxC in./mm	With or Without Panel	Panel	Conductive Panel	Panel Size D x E in./mm
AMOD72X4018FTC	72.12 x 40.25 x 18.12 1832 x 1020 x 460	With	A72PM40	A72PM40G	60.00 x 33.75 1524 x 857
AMOD72X4018FTCLP	72.12 x 40.25 x 18.12 1832 x 1022 x 460	Without	–	–	– –
AMOD84X4018FTC	84.12 x 40.25 x 18.12 2137 x 1020 x 460	With	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
AMOD84X4018FTCLP	84.12 x 40.25 x 18.12 2137 x 1022 x 460	Without	–	–	– –
AMOD84X4024FTC	84.12 x 40.25 x 24.12 2137 x 1020 x 613	With	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
AMOD84X4024FTCLP	84.12 x 40.25 x 24.12 2137 x 1022 x 613	Without	–	–	– –

All 24.12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Cutler-Hammer C361 devices • Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2. • For General Electric devices, order catalog number TDSR extended length drive rod • For Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.

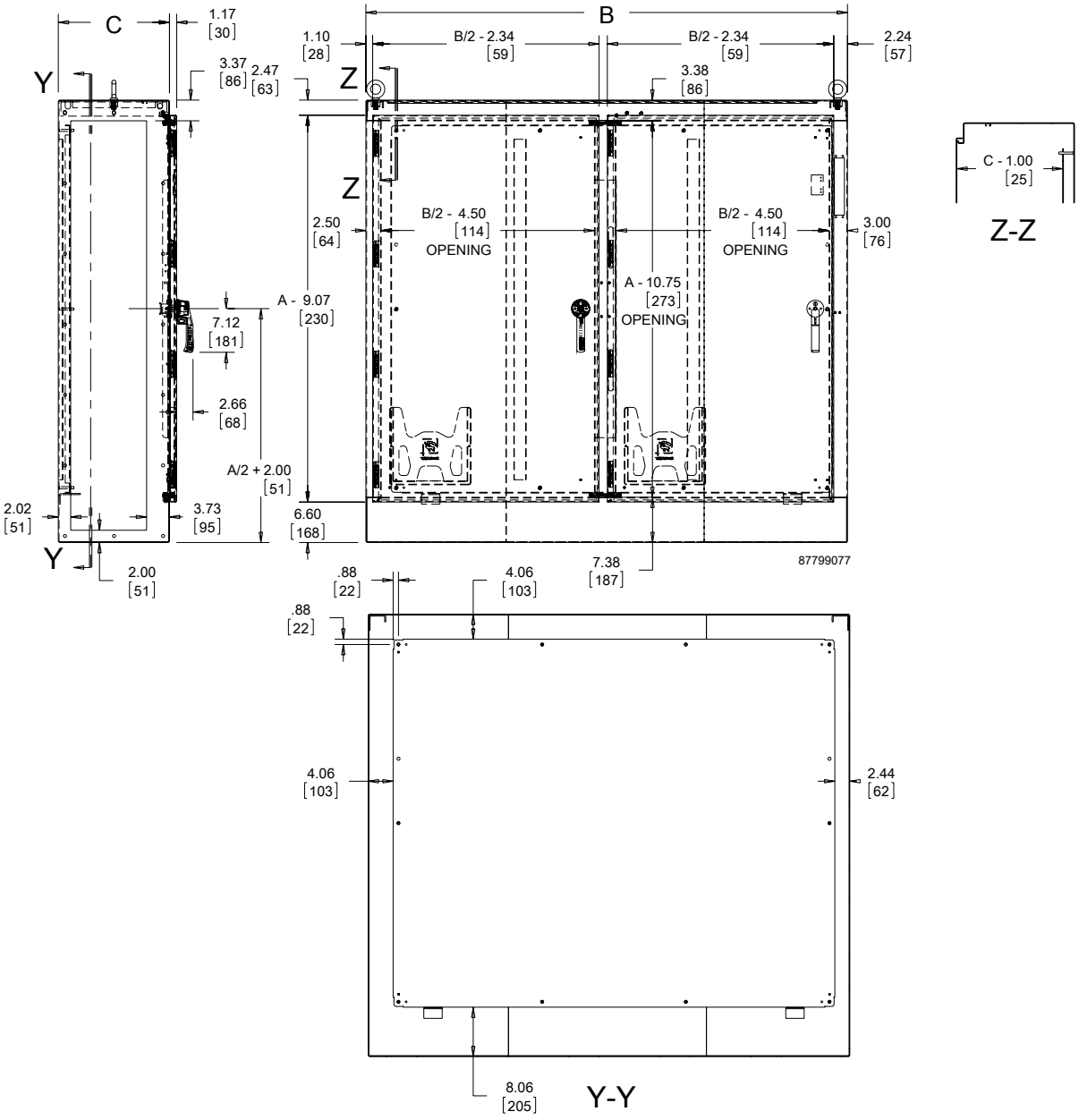
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Master Modular Type 12 Enclosures for Flange-Mount Disconnects, Two-Door (left side open)**

Catalog Number	AxBxC in./mm	With or Without Panel	Panel	Conductive Panel	Panel Size D x E in./mm
AMOD72X7818FTC	72.12 x 78.50 x 18.12 1832 x 1994 x 460	With	A72PM78	A72PM78G	60.00 x 72.00 1524 x 1829
AMOD72X7818FTCLP	72.12 x 78.50 x 18.12 1832 x 1994 x 460	Without	–	–	– –
AMOD84X7818FTC	84.12 x 78.50 x 18.12 2137 x 1994 x 460	With	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
AMOD84X7818FTCLP	84.12 x 78.50 x 18.12 2137 x 1994 x 460	Without	–	–	– –
AMOD84X7824FTC	84.12 x 78.50 x 24.12 2137 x 1994 x 613	With	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
AMOD84X7824FTCLP	84.12 x 78.50 x 24.12 2137 x 1994 x 613	Without	–	–	– –

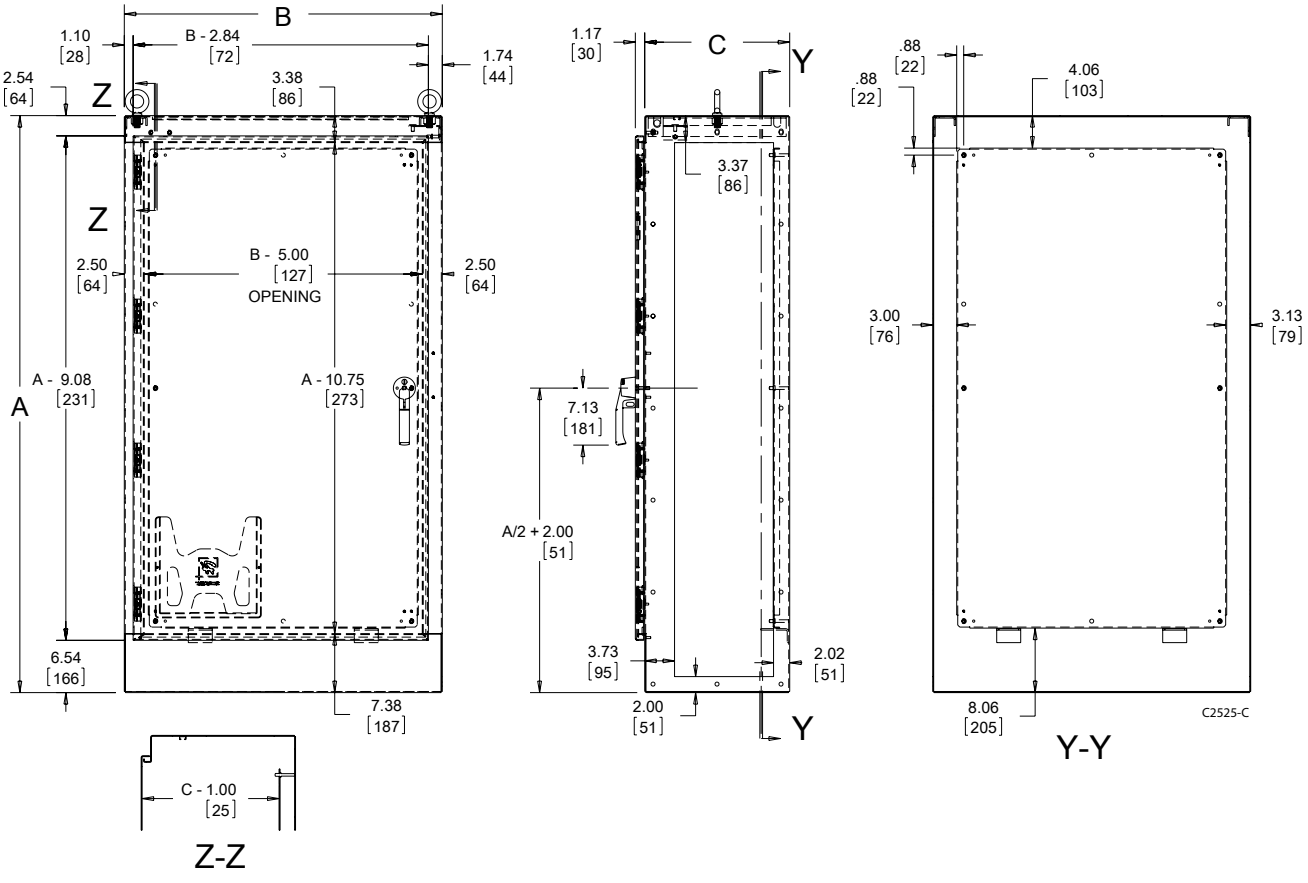
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Slave Modular Type 12 Enclosures for Flange-Mount Disconnects, One-Door (both sides open)**

Catalog Number	AxBxC in./mm	With or Without Panel	Panel	Conductive Panel	Panel Size D x E in./mm
AMOD723918FTC	72.12 x 39.75 x 18.12 1832 x 1010 x 460	With	A72PM40	A72PM40G	60.00 x 33.75 1524 x 857
AMOD723918FTCLP	72.12 x 39.75 x 18.12 1832 x 1010 x 460	Without	–	–	– –
AMOD843918FTC	84.12 x 39.75 x 18.12 2137 x 1010 x 460	With	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
AMOD843918FTCLP	84.12 x 39.75 x 18.12 2137 x 1010 x 460	Without	–	–	– –
AMOD843924FTC	84.12 x 39.75 x 24.12 2137 x 1010 x 613	With	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
AMOD843924FTCLP	84.12 x 39.75 x 24.12 2137 x 1010 x 613	Without	–	–	– –

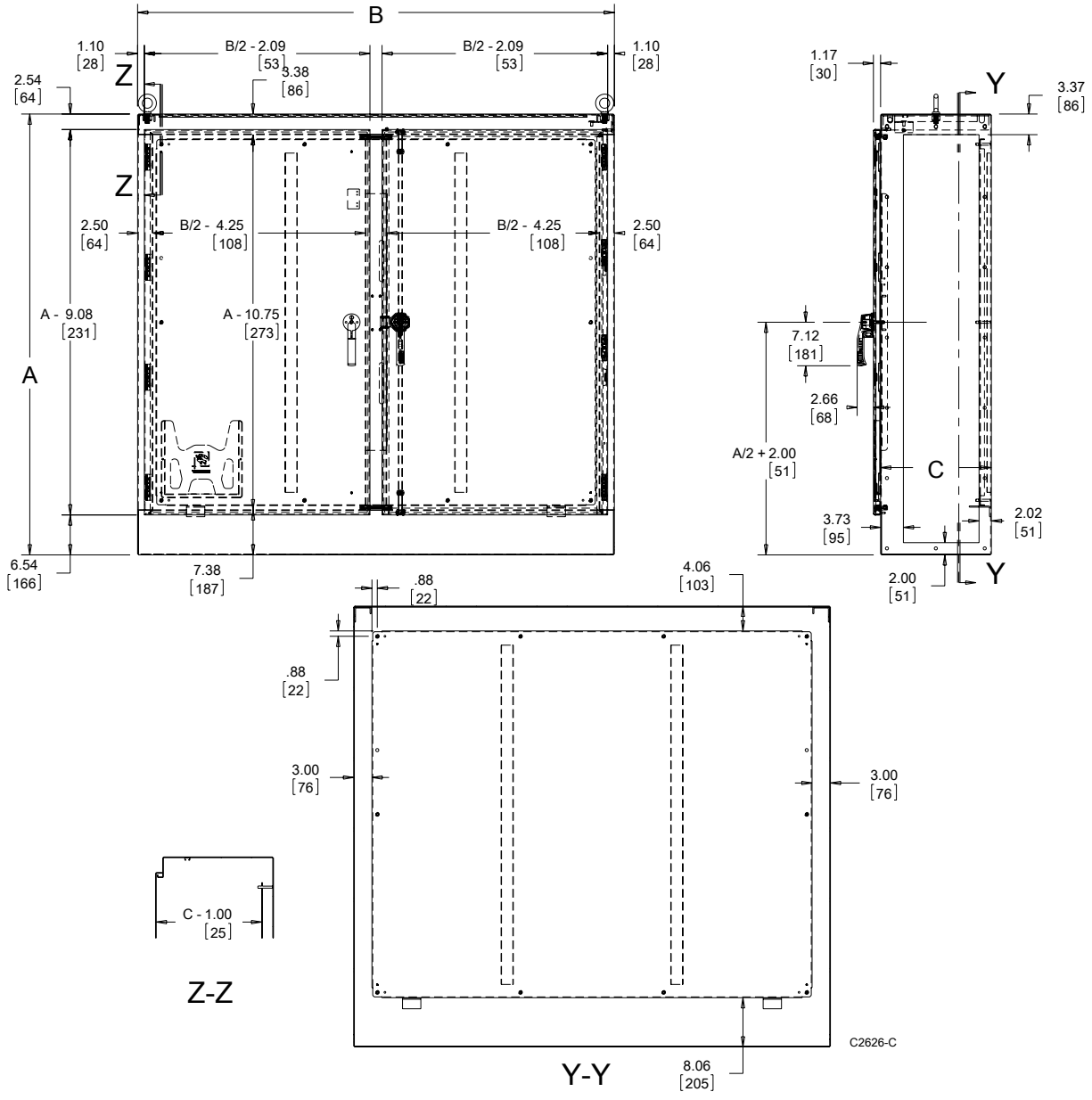
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Slave Modular Type 12 Enclosures for Flange-Mount Disconnects, Two-Door (both sides open)**

Catalog Number	AxBxC in./mm	With or Without Panel	Panel	Conductive Panel	Panel Size D x E in./mm
AMOD727718FTC	72.12 x 78.00 x 18.12 1832 x 1981 x 460	With	A72PM78	A72PM78G	60.00 x 72.00 1524 x 1829
AMOD727718FTCLP	72.12 x 78.00 x 18.12 1832 x 1981 x 460	Without	–	–	– –
AMOD847718FTC	84.12 x 78.00 x 18.12 2137 x 1981 x 460	With	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
AMOD847718FTCLP	84.12 x 78.00 x 18.12 2137 x 1981 x 460	Without	–	–	– –
AMOD847724FTC	84.12 x 78.00 x 24.12 2137 x 1981 x 613	With	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
AMOD847724FTCLP	84.12 x 78.00 x 24.12 2137 x 1981 x 613	Without	–	–	– –

Enclosures with panel include a painted panel. Order conductive panels separately.



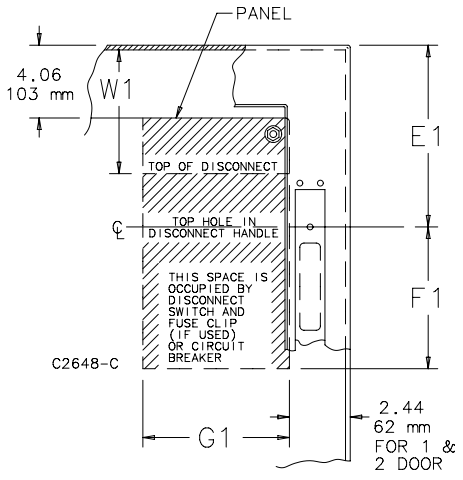
DISCONNECT MOUNTING SPACE

Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure. See Technical Information section for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

W1 = Wiring Space.
See Technical Information section for wire bend space.

Refer to ***NATIONAL ELECTRICAL CODE®, 2005*** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



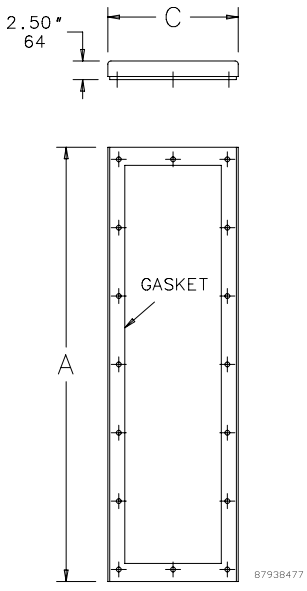
Consult disconnect manufacturer for F1 and G1 dimensions.

END PLATES

Used to seal open end(s) of an assembly of modular enclosures. The 2.50-in. deep End Plates allow extra wiring space. Gasket and mounting bolts are included.

BULLETIN: A34Y

Catalog Number	AxC in./mm
AMOD72EPT	72.12 x 18.12 1832 x 460
AMOD84EPT	84.12 x 18.12 2137 x 460
AMOD8424EPT	84.12 x 24.12 2137 x 613



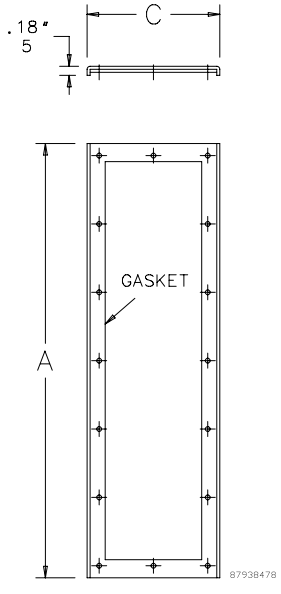
End Plate

FLAT END PLATES

Used to seal open end(s) of an assembly of modular enclosures. The Flat End Plate provides a low profile cover for the open end of a modular enclosure. Studs welded to the end plate eliminate bolt holes. Gasket and mounting hardware are furnished.

BULLETIN: A34Y

Catalog Number	AxC in./mm
AMOD7218FEP	72.12 x 18.12 1832 x 460
AMOD8418FEP	84.12 x 18.12 2137 x 460
AMOD8424FEP	84.12 x 24.12 2137 x 613



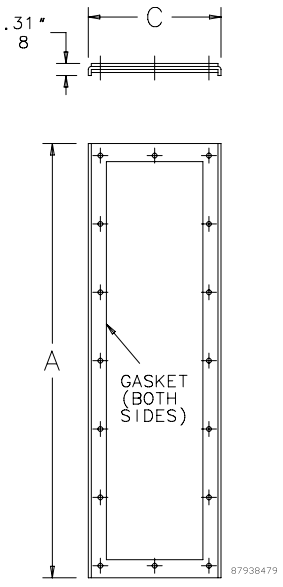
Flat End Plate

BARRIERS

Used to provide a barrier between individual enclosures in an assembly of modular enclosures. The flat plate is gasketed on both sides and inserted between two modular enclosures. Bolts and instructions are included.

BULLETIN: A34Y

Catalog Number	AxC in./mm
AMOD7218BAP	72.12 x 18.12 1832 x 460
AMOD8418BAP	84.12 x 18.12 2137 x 460
AMOD8424BAP	84.12 x 24.12 2137 x 613



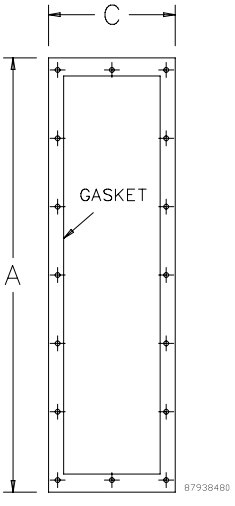
Barrier

GASKET KIT

Used to maintain enclosure rating when modular enclosures are joined together; includes a one-piece gasket, bolts and instructions.

BULLETIN: A34Y

Catalog Number	AxC in./mm
AMOD7218FGK	72.12 x 18.12 1832 x 460
AMOD8418FGK	84.12 x 18.12 2137 x 460
AMOD8424FGK	84.12 x 24.12 2137 x 613



Gasket Kit

MILD STEEL SEQUESTR PREFERRED-CUTOUT OVERVIEW

APPLICATION

The SEQUESTR enclosures have the standard preferred cutout on the left-hand flange. They accept up to 200A disconnect switches from Allen-Bradley and Schneider Square D.

SEQUESTR cutouts are designed to house the following:
Allen-Bradley

- Bulletin 1494V DSX left-hand disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable depth operating mechanisms for circuit breakers.
- Bulletin 1494U Allen-Bradley universal disconnect switches with flange-mount handles for either variable-depth or cable-operated mechanisms.

These enclosures will NOT accept Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators.

Schneider Square D® Class 9422 disconnect switches with flange-mount left-hand variable-depth operating mechanisms and Class 9422 flange-mount left-hand variable-depth operating mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TGI or TG2 devices.

ORDERING

Disconnect switch (or circuit breakers), operating handle and operating mechanism are not furnished with enclosure. Consult the Hoffman Specifier's Guide Technical Information chapter for wire bend information. Consult drawings to match the disconnect device you are using with the correct enclosure size.

A complete assembly consists of:

1. An enclosure
2. Door interlock brackets
3. Door latching system (2-point on SEQUESTR Enclosure, 3-point on main control cabinet doors)
4. Instructions to locate and install disconnect
5. Grounding hardware kit
6. Conductive panel in SEQUESTR External Disconnect Enclosure

SEQUESTR EXTERNAL DISCONNECT ACCESSORIES

Optional Terminal Plates and Replacement Conductive Panel for SEQUESTR External Disconnect Enclosures.

BULLETIN: A70D

Catalog Number	Description	Panel Gauge	Panel Size in./mm
A31P12G	Conductive panel	16	31.00 x 12.16 787 x 309
ATBP3060	Terminal plate for 30 and 60 amp switches	–	– –
ATBP100	Terminal plate for 100 amp switches	–	– –
ATBP200	Terminal plate for 200 amp switches	–	– –

Terminal Plates rated IP20

MILD STEEL SEQUESTR EXTERNAL DISCONNECT ENCLOSURE, TYPE 12

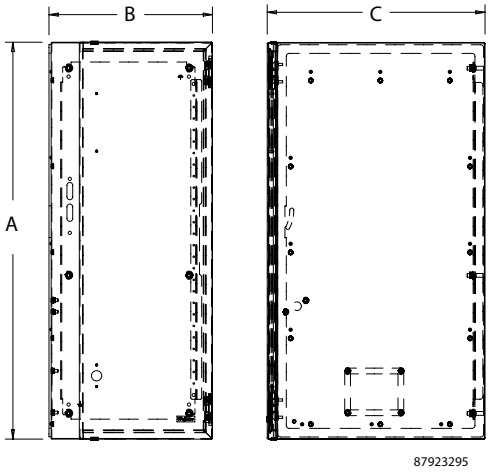
- Interlocks with doors of main control enclosure when the disconnect switch is powered ON
- Maintains UL Type 12 rating
- Provision for pass-through power into the main enclosure—blank plate for customer modification
- Preferred disconnect cutout
- Quarter-turn slotted latches
- Removable door with hidden hinges
- Bonding provision on door
- Conductive back panel included
- Installation hardware and templates included

FINISH

- ANSI 61 gray polyester powder paint inside and out
- Included panel has conductive finish

ACCESSORIES

Door Stop Kit, page 1351
IR Windows, page 1350



INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

Retrofit disconnect enclosures to isolate incoming power and help mitigate arc flash occurrences by moving the disconnect switch to the SEQUESTR enclosure. Power is passed-through to the main enclosure. The SEQUESTR enclosure is sized for use with up to 200A disconnect switches and designed to fit with bulletins A28 and A34 main enclosures.

SPECIFICATIONS

- 16 gauge steel
- Seams continuously welded and ground smooth
- Hinged on right side

BULLETIN: A70D

Standard Product **External Disconnect Enclosure including back panel**

Catalog Number	A (in.)	A (mm)	B (in.)	B (mm)	C (in.)	C (mm)
AXD18	34.45	875	14.00	356	18.12	460
AXD20	34.45	875	14.00	356	20.12	511
AXD24	34.45	875	14.00	356	24.12	613

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MILD STEEL SEQUESTR EXTERNAL DISCONNECT PACKAGE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
CSA File No. 42186: Type 12
IEC 60529, IP55

APPLICATION

The SEQUESTR External Disconnect Enclosure Package helps mitigate arc flash occurrences when working on interior components by isolating incoming power from the main enclosure. Shipped as one unit for new installations, the disconnect switch and fuse block/circuit breaker are mounted in the external enclosure, with terminal connections to bring power to the main enclosure. The package includes a main enclosure and a SEQUESTR enclosure. The SEQUESTR enclosure can be ordered separately to retrofit in existing A28 and A34 main enclosure bulletins.

SPECIFICATIONS

- A28 main enclosure, .121-in. steel (11 gauge)
- A70D SEQUESTR external disconnect enclosure, .060-in. steel
- Seams continuously welded and ground smooth
- External formed body flange channels away liquids
- Heavy duty lifting eyes anchored into reinforced top
- Removable centerposts for easy back panel installation
- No disconnect cutout on main control cabinet
- Interlocks doors of main control enclosure when disconnect switch is powered ON
- Mechanical interlock on main control enclosure activated by master door prevents slave door from being opened first
- Provision for pass-through power into the main enclosure
- Preferred disconnect cutout
- Quarter-turn, slotted latches on SEQUESTR Enclosure
- Rugged POWERGLIDE Handle with three-point latch on main control enclosure
- Concealed, easy-to-remove hinges
- Grounding studs on body
- Bonding provision on door
- Conductive back panel included in SEQUESTR External Disconnect Enclosure
- Optional back panel for main control cabinet for maximum ordering flexibility
- SEQUESTR External Disconnect Enclosure is shipped unattached for easy disconnect installation
- Oil-resistant gasket

FINISH

- SEQUESTR External Disconnect Enclosure ANSI 61 gray polyester powder paint inside and out
- Two finishes are available for A28 main enclosure: ANSI 61 gray polyester powder paint outside and inside, or ANSI 61 gray polyester powder paint outside and white inside
- SEQUESTR External Disconnect Enclosure panel has conductive finish

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Operator Adapters for Universal Cutouts, page 442
PANELITE Enclosure Lights, page 1393
Floor Stand Kit, page 1404
SPECTRACOOL Indoor/Outdoor, page 950
HF Side-Mount Filter Fans, page 1168
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
IR Windows, page 1350
External Data Pockets, Type 4/4X/12, page 1354
Large Enclosure Door Stop Kit, page 1351
Electrical Interlocks, page 1390
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

BULLETIN: A28X1, A28X2 , A28XM, A70D

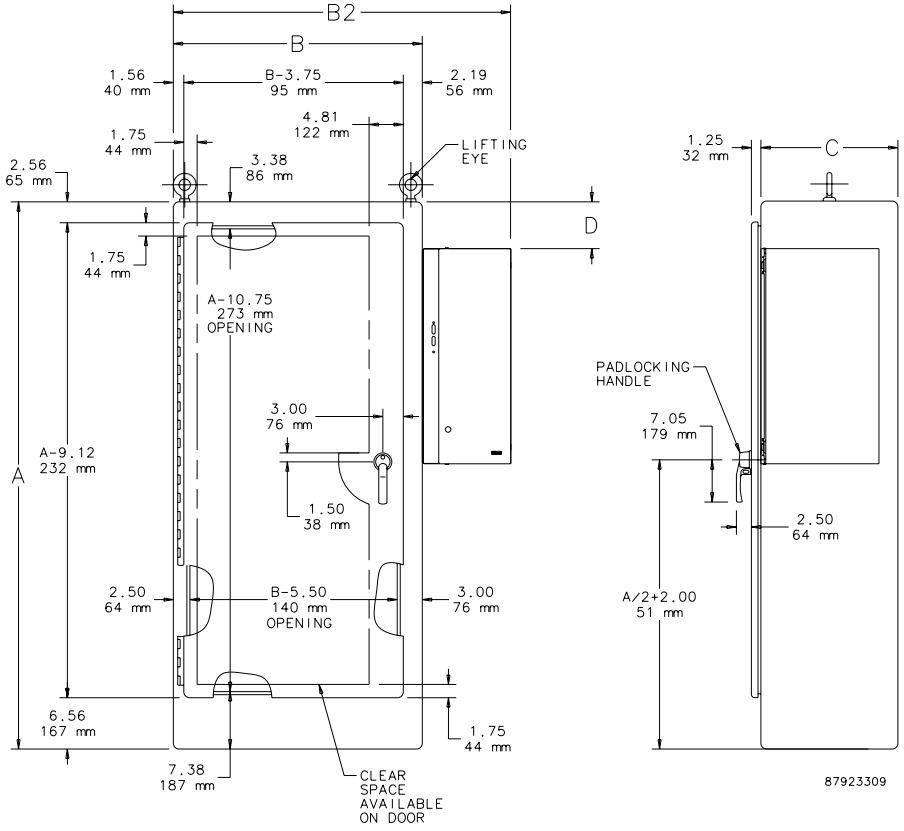
Standard Product **One-Door Enclosure**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Panel	Panel Size in./mm
A72XD2818FTCLPG	72.12 x 28.25 x 18.12 1832 x 718 x 460	Gray	42.25 1073	0 0	A72PM28	60.00 x 21.75 1524 x 552
A72XD2818FTCLP	72.12 x 28.25 x 18.12 1832 x 718 x 460	White	42.25 1073	0 0	A72PM28	60.00 x 21.75 1524 x 552
A72XD3418FTCLPG	72.12 x 34.25 x 18.12 1832 x 870 x 460	Gray	48.25 1226	0 0	A72PM34	60.00 x 27.75 1524 x 705
A72XD3418FTCLP	72.12 x 34.25 x 18.12 1832 x 870 x 460	White	48.25 1226	0 0	A72PM34	60.00 x 27.75 1524 x 705
A72XD4018FTCLPG	72.12 x 40.25 x 18.12 1832 x 1022 x 460	Gray	54.25 1378	0 0	A72PM40	60.00 x 33.75 1524 x 857
A72XD4018FTCLP	72.12 x 40.25 x 18.12 1832 x 1022 x 460	White	54.25 1378	0 0	A72PM40	60.00 x 33.75 1524 x 857
A84XD4018FTCLPG	84.12 x 40.25 x 18.12 2137 x 1022 x 460	Gray	54.25 1378	6.00 152	A84PM40	72.00 x 33.75 1829 x 857
A84XD4018FTCLP	84.12 x 40.25 x 18.12 2137 x 1022 x 460	White	54.25 1378	6.00 152	A84PM40	72.00 x 33.75 1829 x 857
A90XD4018FTCLPG	90.12 x 40.25 x 18.12 2289 x 1022 x 460	Gray	54.25 1378	9.00 229	A90PM40	72.00 x 33.75 1981 x 857
A90XD4018FTCLP	90.12 x 40.25 x 18.12 2289 x 1022 x 460	White	54.25 1378	9.00 229	A90PM40	78.00 x 33.75 1981 x 857
A90XD4020FTCLPG	90.12 x 40.25 x 20.12 2289 x 1022 x 511	Gray	54.25 1378	9.00 229	A90PM40	72.00 x 33.75 1981 x 857
A90XD4020FTCLP	90.12 x 40.25 x 20.12 2289 x 1022 x 511	White	54.25 1378	9.00 229	A90PM40	78.00 x 33.75 1981 x 857
A84XD4024FTCLPG	84.12 x 40.25 x 24.12 2137 x 1022 x 613	Gray	54.25 1378	6.00 152	A84PM40	72.00 x 33.75 1981 x 857
A84XD4024FTCLP	84.12 x 40.25 x 24.12 2137 x 1022 x 613	White	54.25 1378	6.00 152	A84PM40	72.00 x 33.75 1829 x 857
A90XD4024FTCLPG	90.12 x 40.25 x 24.12 2289 x 1022 x 613	Gray	54.25 1378	9.00 229	A90PM40	72.00 x 33.75 1981 x 857
A90XD4024FTCLP	90.12 x 40.25 x 24.12 2289 x 1022 x 613	White	54.25 1378	9.00 229	A90PM40	78.00 x 33.75 1981 x 857

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



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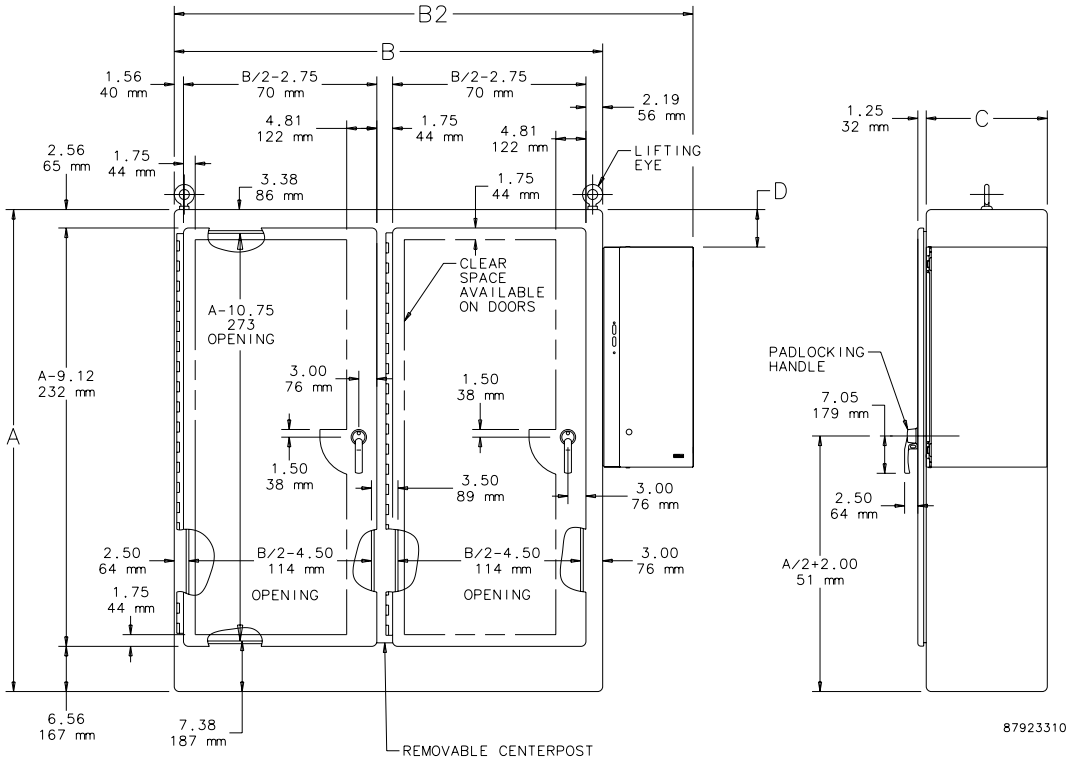
Standard Product **Two-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Stiffener Locations in./mm	Panel	Panel Size in./mm
A72XD5418FTCLPG	72.12 x 54.50 x 18.12 1832 x 1384 x 460	Gray	68.50 1740	0 0	None None	A72PM54	60.00 x 48.00 1524 x 1219
A72XD5418FTCLP	72.12 x 54.50 x 18.12 1832 x 1384 x 460	White	68.50 1740	0 0	None None	A72PM54	60.00 x 48.00 1524 x 1219
A72XD6618FTCLPG	72.12 x 66.50 x 18.12 1832 x 1689 x 460	Gray	80.50 2045	0 0	21.00 533	A72PM66	60.00 x 60.00 1524 x 1524
A72XD6618FTCLP	72.12 x 66.50 x 18.12 1832 x 1689 x 460	White	80.50 2045	0 0	21.00 533	A72PM66	60.00 x 60.00 1524 x 1524
A72XD7818FTCLPG	72.12 x 78.50 x 18.12 1832 x 1994 x 460	Gray	92.50 2350	0 0	24.00 610	A72PM78	60.00 x 72.00 1524 x 1829
A72XD7818FTCLP	72.12 x 78.50 x 18.12 1832 x 1994 x 460	White	92.50 2350	0 0	24.00 610	A72PM78	60.00 x 72.00 1524 x 1829
A84XD7818FTCLPG	84.12 x 78.50 x 18.12 2137 x 1994 x 460	Gray	92.50 2350	6.00 152	24.00 910	A84PM78	72.00 x 72.00 1829 x 1829
A84XD7818FTCLP	84.12 x 78.50 x 18.12 2137 x 1994 x 460	White	92.50 2350	6.00 152	24.00 910	A84PM78	72.00 x 72.00 1829 x 1829
A90XD7818FTCLPG	90.12 x 78.50 x 18.12 2289 x 1994 x 460	Gray	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829
A90XD7818FTCLP	90.12 x 78.50 x 18.12 2289 x 1994 x 460	White	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829
A90XD7820FTCLPG	90.12 x 78.50 x 20.12 2289 x 1994 x 511	Gray	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829
A90XD7820FTCLP	90.12 x 78.50 x 20.12 2289 x 1994 x 511	White	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829
A72XD7824FTCLPG	72.12 x 78.50 x 24.12 1832 x 1994 x 613	Gray	92.50 2350	0 0	24.00 610	A72PM78	60.00 x 72.00 1524 x 1829
A72XD7824FTCLP	72.12 x 78.50 x 24.12 1832 x 1994 x 613	White	92.50 2350	0 0	24.00 610	A72PM78	60.00 x 72.00 1524 x 1829
A84XD7824FTCLPG	84.12 x 78.50 x 24.12 2137 x 1994 x 613	Gray	92.50 2350	6.00 152	24.00 610	A84PM78	72.00 x 72.00 1829 x 1829
A84XD7824FTCLP	84.12 x 78.50 x 24.12 2137 x 1994 x 613	White	92.50 2350	6.00 152	24.00 610	A84PM78	72.00 x 72.00 1829 x 1829
A90XD7824FTCLPG	90.12 x 78.50 x 24.12 2289 x 1994 x 613	Gray	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829
A90XD7824FTCLP	90.12 x 78.50 x 24.12 2289 x 1994 x 613	White	92.50 2350	9.00 229	24.00 610	A90PM78	78.00 x 72.00 1981 x 1829

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



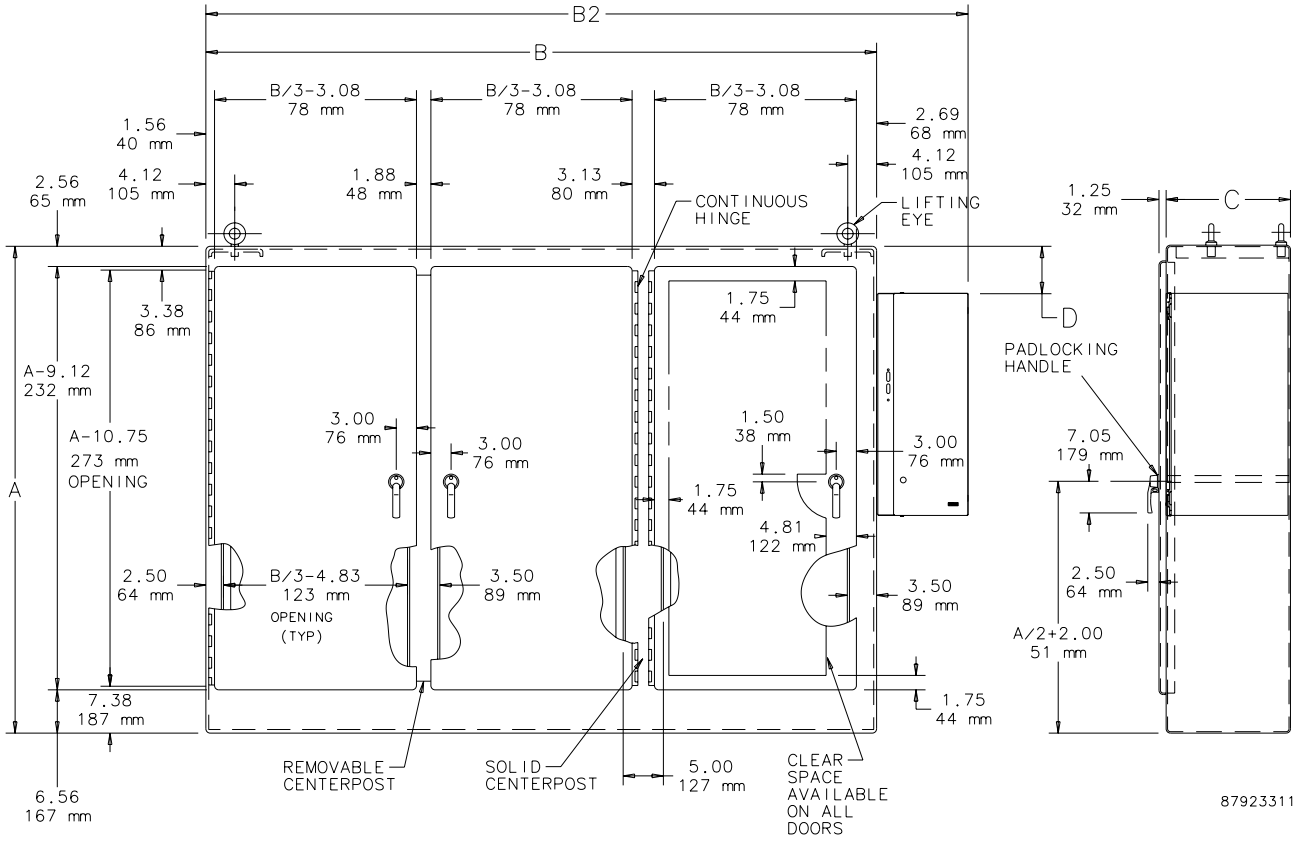
Standard Product **Three-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Large Panel	Number of Large Panels	Size of Large Panels in./mm	Small Panel	Number of Small Panels	Size of Small Panels in./mm
A72XD3EQ18FTCLPG	72.12 x 100.75 x 18.12 1832 x 2559 x 460	Gray	114.75 2915	0 0	A72PM66	1	60.00 x 60.00 1524 x 1524	A72PM34	1	60.00 x 33.75 1524 x 705
A72XD3EQ18FTCLP	72.12 x 100.75 x 18.12 1832 x 2559 x 460	White	114.75 2915	0 0	A72PM66	1	60.00 x 60.00 1524 x 1524	A72PM34	1	60.00 x 27.75 1524 x 705
A72XD3EW18FTCLPG	72.12 x 118.75 x 18.12 1832 x 3016 x 460	Gray	132.75 3372	0 0	A72PM78	1	60.00 x 72.00 1524 x 1829	A72PM40	1	60.00 x 33.75 1524 x 857
A72XD3EW18FTCLP	72.12 x 118.75 x 18.12 1832 x 3016 x 460	White	132.75 3372	0 0	A72PM78	1	60.00 x 72.00 1524 x 1829	A72PM40	1	60.00 x 33.75 1524 x 857
A84XD3EW18FTCLPG	84.12 x 118.75 x 18.12 2137 x 3016 x 460	Gray	132.75 3372	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A84XD3EW18FTCLP	84.12 x 118.75 x 18.12 2137 x 3016 x 460	White	132.75 3372	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A84XD3EW24FTCLPG	84.12 x 118.75 x 24.12 2137 x 3016 x 613	Gray	132.75 3372	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A84XD3EW24FTCLP	84.12 x 118.75 x 24.12 2137 x 3016 x 613	White	132.75 3372	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A90XD3EW24FTCLPG	90.12 x 118.75 x 24.12 2289 x 3016 x 613	Gray	132.75 3372	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857
A90XD3EW24FTCLP	90.12 x 118.75 x 24.12 2289 x 3016 x 613	White	132.75 3372	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



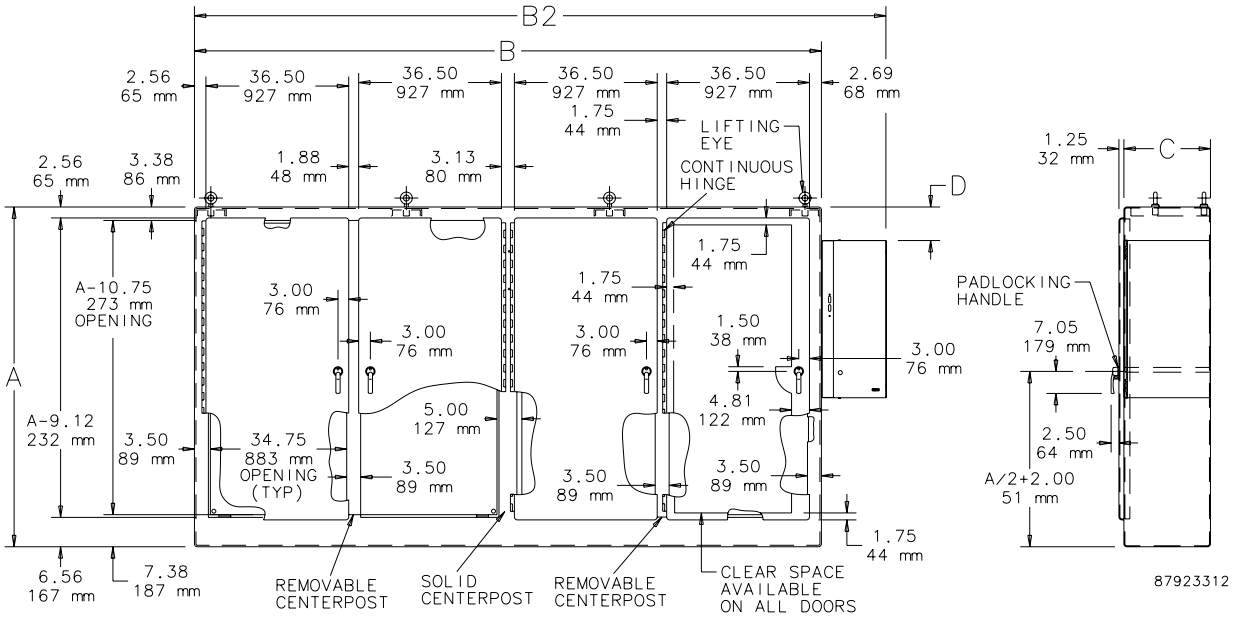
Standard Product **Four-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Large Panel	Number of Panels	Size of Panels in./mm
A84XD4EW18FTCLPG	84.12 x 158.00 x 18.12 2137 x 4013 x 460	Gray	172.00 4369	6.00 152	A84PM78	2	72.00 x 72.00 1829 x 1829
A84XD4EW18FTCLP	84.12 x 158.00 x 18.12 2137 x 4013 x 460	White	172.00 4369	6.00 152	A84PM78	2	72.00 x 72.00 1829 x 1829
A90XD4EW18FTCLPG	90.12 x 158.00 x 18.12 2289 x 4013 x 460	Gray	172.00 4369	9.00 229	A90PM78	2	78.00 x 72.00 1981 x 1829
A90XD4EW18FTCLP	90.12 x 158.00 x 18.12 2289 x 4013 x 460	White	172.00 4369	9.00 229	A90PM78	2	78.00 x 72.00 1981 x 1829
A84XD4EW24FTCLPG	84.12 x 158.00 x 24.12 2137 x 4013 x 613	Gray	172.00 4369	6.00 152	A84PM78	2	72.00 x 72.00 1829 x 1829
A84XD4EW24FTCLP	84.12 x 158.00 x 24.12 2137 x 4013 x 613	White	172.00 4369	6.00 152	A84PM78	2	72.00 x 72.00 1829 x 1829
A90XD4EW24FTCLPG	90.12 x 158.00 x 24.12 2289 x 4013 x 613	Gray	172.00 4369	9.00 229	A90PM78	2	78.00 x 72.00 1981 x 1829
A90XD4EW24FTCLP	90.12 x 158.00 x 24.12 2289 x 4013 x 613	White	172.00 4369	9.00 229	A90PM78	2	78.00 x 72.00 1981 x 1829

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



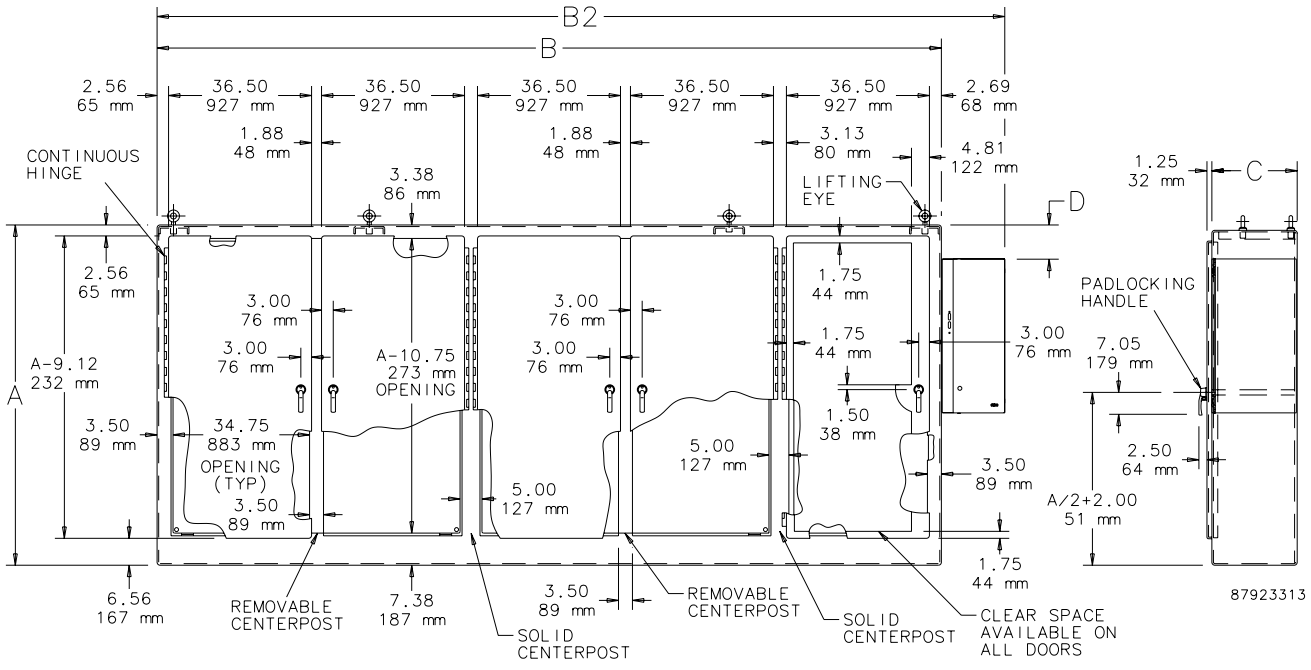
Standard Product **Five-Door Enclosures**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Large Panel	Number of Large Panels	Size of Large Panels in./mm	Small Panel	Number of Small Panels	Size of Small Panels in./mm
A84XD5EW18FTCLPG	84.12 x 197.75 x 18.12 2137 x 5023 x 460	Gray	211.00 5359	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A84XD5EW18FTCLP	84.12 x 197.75 x 18.12 2137 x 5023 x 460	White	211.00 5359	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A90XD5EW18FTCLPG	90.12 x 197.75 x 18.12 2289 x 5023 x 460	Gray	211.00 5359	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857
A90XD5EW18FTCLP	90.12 x 197.75 x 18.12 2289 x 5023 x 460	White	211.00 5359	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857
A84XD5EW24FTCLPG	84.12 x 197.75 x 24.12 2137 x 5023 x 613	Gray	211.00 5359	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A84XD5EW24FTCLP	84.12 x 197.75 x 24.12 2137 x 5023 x 613	White	211.00 5359	6.00 152	A84PM78	1	72.00 x 72.00 1829 x 1829	A84PM40	1	72.00 x 33.75 1829 x 857
A90XD5EW24FTCLPG	90.12 x 197.75 x 24.12 2289 x 5023 x 613	Gray	211.00 5359	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857
A90XD5EW24FTCLP	90.12 x 197.75 x 24.12 2289 x 5023 x 613	White	211.00 5359	9.00 229	A90PM78	1	78.00 x 72.00 1981 x 1829	A90PM40	1	78.00 x 33.75 1981 x 857

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



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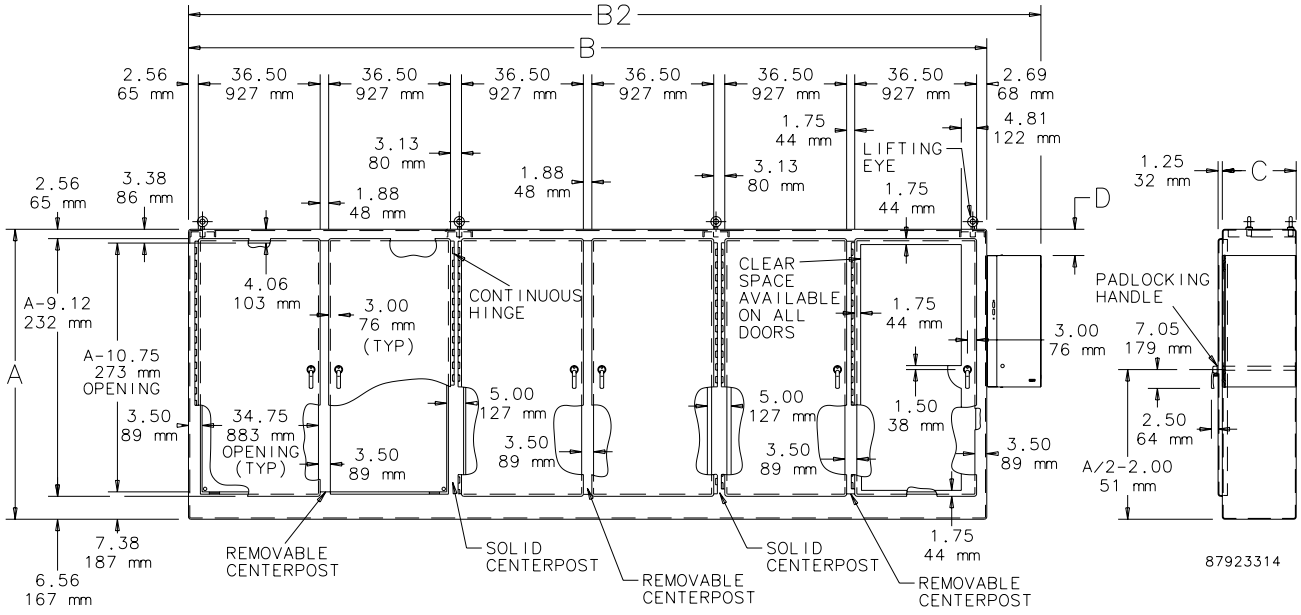
Standard Product **Six-Door Enclosure**

Catalog Number	AxBxC in./mm	Interior Finish	B2 in./mm	D in./mm	Large Panel	Number of Large Panels	Size of Panels in./mm
A84XD6EW24FTCLPG	84.12 x 236.00 x 24.12 2137 x 5994 x 613	Gray	250.00 6350	6.00 152	A84PM78	3	72.00 x 72.00 1829 x 1829
A84XD6EW24FTCLP	84.12 x 236.00 x 24.12 2137 x 5994 x 613	White	250.00 6350	6.00 152	A84PM78	3	72.00 x 72.00 1829 x 1829
A90XD6EW24FTCLPG	90.12 x 236.00 x 24.12 2289 x 5994 x 613	Gray	250.00 6350	9.00 229	A90PM78	3	78.00 x 72.00 1981 x 1829
A90XD6EW24FTCLP	90.12 x 197.75 x 24.12 2289 x 5023 x 613	White	250.00 6350	9.00 229	A90PM78	3	78.00 x 72.00 1981 x 1829

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



Optional Terminal Plates

Catalog Number	AxBxC in./mm	Description
ATBP3060	0.00	30 and 60 amp switches
ATBP100	0.00	100 amp switches
ATBP200	0.00	200 amp switches

Terminal Plates rated IP20

STAINLESS STEEL SEQUESTR PREFERRED-CUTOUT OVERVIEW

APPLICATION

The SEQUESTR enclosures have the standard preferred cutout on the left-hand flange. They accept up to 200A disconnect switches from Allen-Bradley and Schneider Square D.

SEQUESTR cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494V DSX left-hand disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable depth operating mechanisms for circuit breakers.
- Bulletin 1494U Allen-Bradley universal disconnect switches with flange-mount handles for either variable-depth or cable-operated mechanisms.

These enclosures will NOT accept Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators.

Schneider Square D® Class 9422 disconnect switches with flange-mount left-hand variable-depth operating mechanisms and Class 9422 flange-mount left-hand variable-depth operating mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TGI or TG2 devices.

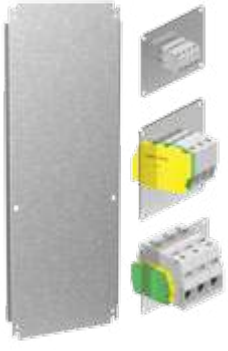
ORDERING

Disconnect switch (or circuit breakers), operating handle and operating mechanism are not furnished with enclosure. Consult the Hoffman Specifier's Guide Technical Information chapter for wire bend information. Consult drawings to match the disconnect device you are using with the correct enclosure size.

A complete assembly consists of:

1. An enclosure
2. Door interlock brackets
3. 3-point door latching system
4. Instructions to locate and install disconnect
5. Grounding hardware kit
6. Conductive panel in SEQUESTR External Disconnect Enclosure

SEQUESTR EXTERNAL DISCONNECT ACCESSORIES



Optional Terminal Plates and Replacement Conductive Panel for SEQUESTR External Disconnect Enclosures.

BULLETIN: A70D

Catalog Number	Description	Panel Gauge	Panel Size in./mm
A31P12G	Conductive panel	16	31.00 x 12.16 787 x 309
ATBP3060	Terminal plate for 30 and 60 amp switches	–	– –
ATBP100	Terminal plate for 100 amp switches	–	– –
ATBP200	Terminal plate for 200 amp switches	–	– –

Terminal Plates rated IP20

STAINLESS STEEL SEQUESTR EXTERNAL DISCONNECT ENCLOSURE, TYPE 4X

- Interlocks with doors of main control enclosures when the disconnect switch is powered ON
- Maintains UL Type 4X rating
- Provision for pass-through power into the main enclosure—blank plate for customer modification
- Preferred disconnect cutout
- Quarter-turn slotted latches and 3-point latch
- Removable door with hidden hinges
- Bonding provision on door
- Conductive back panel included
- Installation hardware and templates included

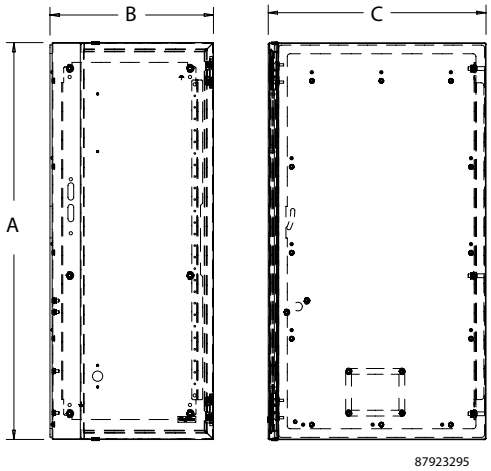
FINISH

- Smooth #4 brushed finish
- Included panel has conductive finish

ACCESSORIES

Door Stop Kit, page 1351
IR Windows, page 1350

BULLETIN: A70DS



INDUSTRY STANDARDS

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12
CSA File No. 42186: Type 3R, 4, 4X, 12
IEC 60529, IP66

APPLICATION

Retrofit disconnect enclosures to isolate incoming power and help mitigate arc flash occurrences by moving the disconnect switch to the SEQUESTR enclosure. Power is passed-through to the main enclosure.
The SEQUESTR enclosure is sized for use with up to 200A disconnect switches and designed to fit with bulletins A28S4 main enclosures.

SPECIFICATIONS

- 14 gauge 304 steel
- Seams continuously welded and ground smooth
- Hinged on right side

Standard Product

Catalog Number	AxBxC in.	AxBxC mm
AXD18SS	34.45 x 14.00 x 18.12	875 x 356 x 460
AXD20SS	34.45 x 14.00 x 20.12	875 x 356 x 511
AXD24SS	34.45 x 14.00 x 24.12	875 x 356 x 613

STAINLESS STEEL SEQUESTR EXTERNAL DISCONNECT PACKAGE, TYPE 4X

SPECIFICATIONS

- A28S4 main enclosure, 12 gauge Type 304 stainless steel
- A70DS SEQUESTR external disconnect enclosure, 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Interlocks doors of main control cabinet when disconnect switch is powered ON
- Mechanical interlock on main control enclosure activated by master door, preventing slave door from being opened first
- Provision for pass-through power into the main enclosure
- Preferred Disconnect cutout
- Quarter-turn, slotted latches on SEQUESTR Enclosure
- Heavy-duty 3-point latching mechanism operated by Type 316L stainless steel POWERGLIDE padlocking handle on all doors
- Heavy-duty continuous hinges
- Grounding studs on body
- Bonding provision on door
- Conductive back panel included in SEQUESTR External Disconnect Enclosure
- Optional back panel for main control cabinet for maximum ordering flexibility
- SEQUESTR External Disconnect Enclosure is shipped unattached for easy disconnect installation

FINISH

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional white mild steel panels or conductive panels.

ACCESSORIES

Electric Heaters, page 1236
Compact Axial Fans, page 1202
Floor Stand Kit, page 1404
PANELITE Enclosure Lights, page 1393
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
IR Windows, page 1350
Door Stop Kit, page 1351
External Data Pockets, Type 4/4X/12, page 1354
INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A28SX, A70D

INDUSTRY STANDARDS

UL 508A Listed 508; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, Type 4, 4X, 12
CSA File No. 42186: Type 4, 4X, 12
IEC 60529, IP66
Meets NEMA Type 3RX requirements

APPLICATION

The Stainless Steel, SEQUESTR, External Disconnect Enclosure Package helps mitigate arc flash occurrences when working on interior components by isolating incoming power from the main enclosure. Manufactured from 304 stainless steel, it provides protection from noncorrosive or mildly corrosive elements in both indoor and outdoor environments. Shipped as one unit for new installations, the disconnect switch and fuse block/circuit breaker are mounted in the external enclosure, with terminal connections to bring power to the main enclosure. The package includes a main enclosure and a SEQUESTR enclosure. The SEQUESTR enclosure can be ordered separately to retrofit in existing A28S4 main enclosure bulletin.

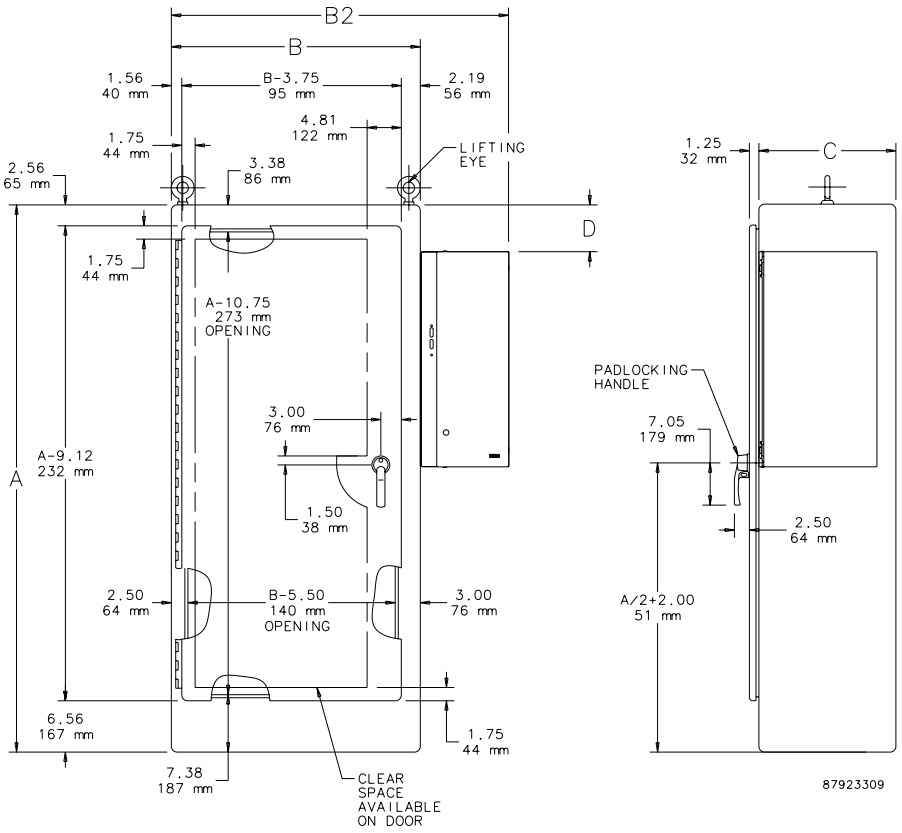
Standard Product **One-Door Enclosure**

Catalog Number	AxBxC in./mm	B2 in./mm	D in./mm	Panel	Conductive Panel	Panel size in./mm
A72XD2818SSFTCLP	72.12 x 28.25 x 18.12 1832 x 718 x 460	42.25 1073	0 0	A72PM28	A72PM28G	60.00 x 21.75 1524 x 552
A72XD3418SSFTCLP	72.12 x 34.25 x 18.12 1832 x 870 x 460	48.25 1226	0 0	A72PM34	A72PM34G	60.00 x 27.75 1524x 705
A72XD4018SSFTCLP	72.12 x 40.25 x 18.12 1832 x 1022 x 460	54.25 1378	0 0	A72PM40	A72PM40G	60.00 x 33.75 1524 x 857
A84XD4018SSFTCLP	84.12 x 40.25 x 18.12 2137 x 1022 x 460	54.25 1378	6.00 152	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
A90XD4018SSFTCLP	90.12 x 40.25 x 18.12 2289 x 1022 x 460	54.25 1378	9.00 229	A90PM40	A90PM40G	78.00 x 33.75 1981 x 857
A90XD4020SSFTCLP	90.12 x 40.25 x 20.12 2289 x 1022 x 511	54.25 1378	9.00 229	A90PM40	A90PM40G	78.00 x 33.75 1981 x 857
A84XD4024SSFTCLP	84.12 x 40.25 x 24.12 2137 x 1022 x 613	54.25 1378	6.00 152	A84PM40	A84PM40G	72.00 x 33.75 1829 x 857
A90XD4024SSFTCLP	90.12 x 40.25 x 24.12 2289 x 1022 x 613	54.25 1378	9.00 229	A90PM40	A90PM40G	78.00 x 33.75 1981 x 857

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels seperately.



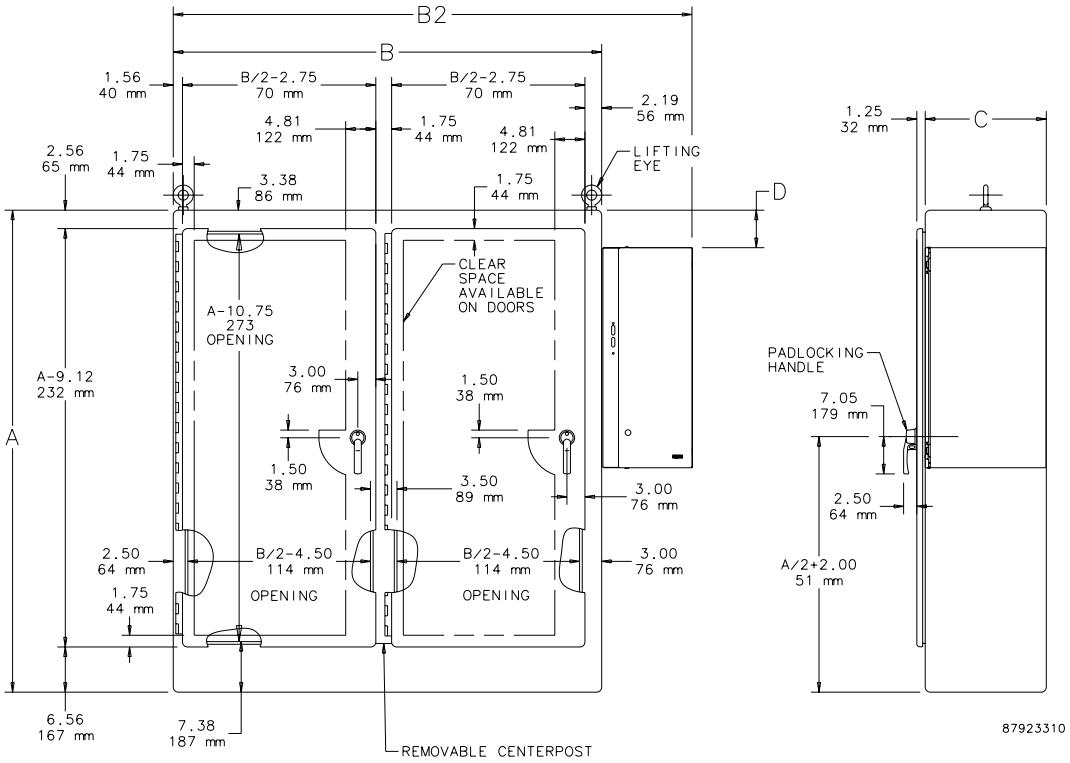
Standard Product **Two-Door Enclosure**

Catalog Number	AxBxC in./mm	B2 in./mm	D in./mm	Panel	Conductive Panel	Panel Size in./mm
A72XD5418SSFTCLP	72.12 x 54.50 x 18.12 1832 x 1384 x 460	68.50 1740	0 0	A72PM54	A72PM54G	60.00 x 48.00 1524 x 1219
A72XD6618SSFTCLP	72.12 x 66.50 x 18.12 1832 x 1689 x 460	80.50 2045	0 0	A72PM66	A72PM66G	60.00 x 60.00 1524 x 1524
A72XD7818SSFTCLP	72.12 x 78.50 x 18.12 1832 x 1994 x 460	92.50 2350	0 0	A72PM78	A72PM78G	60.00 x 72.00 1524 x 1829
A84XD7818SSFTCLP	84.12 x 78.50 x 18.12 2137 x 1994 x 460	92.50 2350	6.00 152	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
A90XD7818SSFTCLP	90.12 x 78.50 x 18.12 2289 x 1994 x 460	92.50 2350	9.00 229	A90PM78	A90PM78G	78.00 x 72.00 1981 x 1829
A90XD7820SSFTCLP	90.12 x 78.50 x 20.12 2289 x 1994 x 511	92.50 2350	9.00 229	A90PM78	A90PM78G	78.00 x 72.00 1981 x 1829
A72XD7824SSFTCLP	72.12 x 78.50 x 24.12 1832 x 1994 x 613	92.50 2350	0 0	A72PM78	A72PM78G	60.00 x 72.00 1524 x 1829
A84XD7824SSFTCLP	84.12 x 78.50 x 24.12 2137 x 1994 x 613	92.50 2350	6.00 152	A84PM78	A84PM78G	72.00 x 72.00 1829 x 1829
A90XD7824SSFTCLP	90.12 x 78.50 x 24.12 2289 x 1994 x 613	92.50 2350	9.00 229	A90PM78	A90PM78G	78.00 x 72.00 1981 x 1829

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



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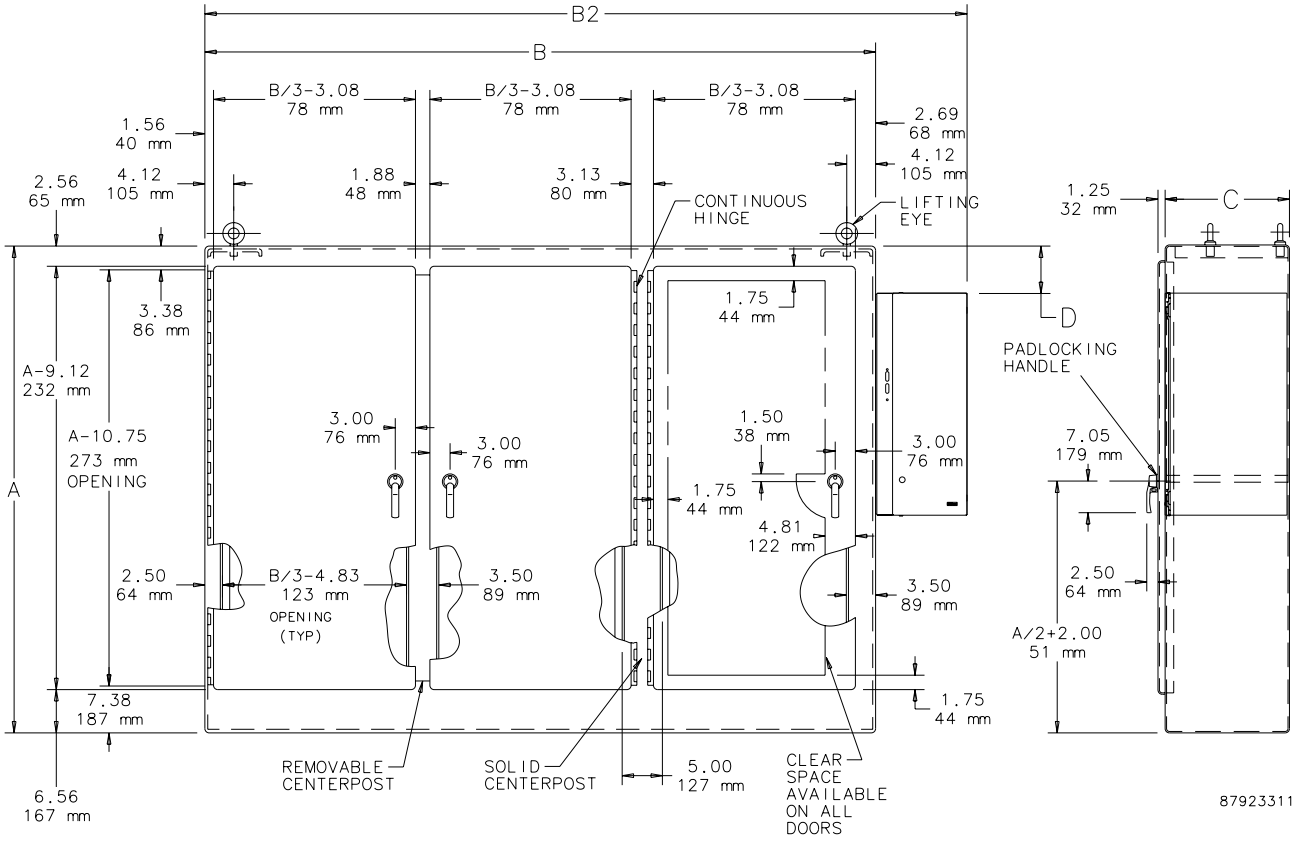
Standard Product **Three-Door Enclosure**

Catalog Number	AxBxC in./mm	B2 in./mm	D in./mm	Large Panel/Small Panel	Large Conductive Panel/Small Conductive Panel	Large Panel Size in./mm	Small Panel Size in./mm
A72XD3EQ18SSFTCLP	72.12 x 100.75 x 18.12 1832 x 2559 x 460	114.75 2915	0 0	A72PM66/A72PM34	A72PM66G/A72PM34G	60.00 x 60.00 1524 x 1524	60.00 x 27.75 1524 x 705
A72XD3EW18SSFTCLP	72.12 x 118.75 x 18.12 1832 x 3016 x 460	132.75 3372	0 0	A72PM78/A72PM40	A72PM78G/A72PM40G	60.00 x 72.00 1524 x 1829	60.00 x 33.75 1524 x 857
A84XD3EW18SSFTCLP	84.12 x 118.75 x 18.12 2137 x 3016 x 460	132.75 3372	6.00 152	A84PM78/A84PM40	A84PM78G/A84PM40G	72.00 x 72.00 1829 x 1829	72.00 x 33.75 1829 x 857
A84XD3EW24SSFTCLP	84.12 x 118.75 x 24.12 2137 x 3016 x 613	132.75 3372	6.00 152	A84PM78/A84PM40	A84PM78G/A84PM40G	72.00 x 72.00 1829 x 1829	72.00 x 33.75 1829 x 857
A90XD3EW24SSFTCLP	90.12 x 118.75 x 24.12 2289 x 3016 x 613	132.75 3372	9.00 229	A90PM78/A90PM40	A90PM78G/A90PM40G	78.00 x 72.00 1981 x 1829	78.00 x 33.75 1981 x 857

B dimension is large enclosure without External Disconnect Enclosure.

B2 dimension is overall size including External Disconnect Enclosure.

Purchase panels separately.



Optional Terminal Plates

Catalog Number	AxBxC in./mm	Description
ATBP3060	0.00	30 and 60 amp switches
ATBP100	0.00	100 amp switches
ATBP200	0.00	200 amp switches

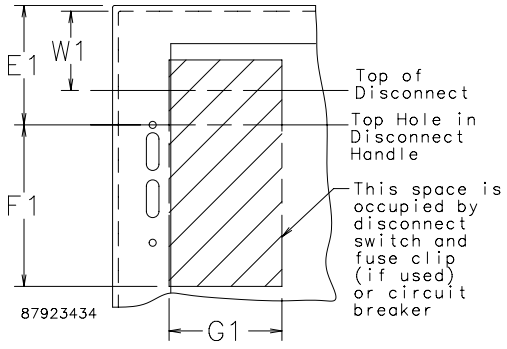
Terminal Plates rated IP20

DISCONNECT MOUNTING SPACE

Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure.
See the Hoffman Specifier's Guide Technical Information chapter for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

Refer to **National Electrical Code® 2008** article 430.10(B) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine if wiring space is adequate.**

Consult Space Occupied by Disconnect drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



Consult disconnect manufacturer for F1 and G1 dimensions.

INTERNAL DISCONNECT SHIELD

INDUSTRY STANDARDS

UL 508A Listed; Type 1; File Number E482010
cUL Listed per CSA C22.2 No 94; Type 1; File Number E482010

NEMA/EEMAC Type 1
IEC 60529, IP30

This product has an open back and is intended to be mounted to the internal panel of a Type rated Industrial Control Panel.

APPLICATION

The internal disconnect shield helps reduce the risk of electric shock and arc flash by providing a method to barrier the disconnect switch inside the main enclosure, which minimizes incidental contact or exposure to the line side lugs. Designed to cover variable-depth or cable-operated disconnect switches, it can be retrofitted in an existing system or integrated into a new system.

The internal disconnect shield does not eliminate the potential for an arc flash. It is not designed to contain the heat and pressure or direct it away from workers if an arc flash does occur.

SPECIFICATIONS

- 16 gauge steel
- Body construction includes flanges and joints to meet UL Type 1 construction requirements
- Quarter-turn slotted latch
- Spring-loaded slam latch with 7mm square insert for automatic latching
- 110-degree door stop to prevent incidental contact
- Gland plate top and bottom for easy wire installation
- Wing nuts for gland plates for tool-less installation
- Ground stud on door and body
- Open back with mounting holes on back flanges for mounting on main enclosure subpanel
- Knock-outs for variable-depth or cable-operated disconnect switches
- Symmetrically designed to use with left-hand or right-hand disconnect switches
- Hardware kit includes: panel mounting screws, key for spring-loaded slam latch, grommet to cover knockout for variable-depth disconnect switches, and installation instructions

FINISH

Safety orange paint

BULLETIN: A70ID

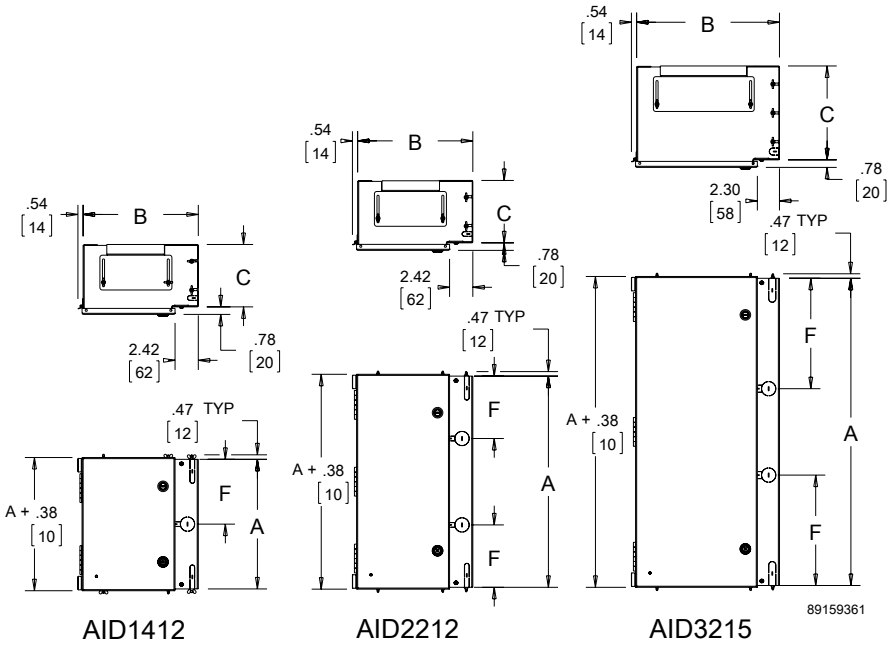
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	F (in.)	F (mm)	Amperage Range*
AID1412	13.50 x 12.00 x 6.50	343 x 305 x 165	6.75	171	30 - 100A
AID2212	22.00 x 12.00 x 6.50	559 x 305 x 165	6.50	165	60 - 200A
AID3215	32.00 x 14.89 x 9.75	813 x 378 x 248	11.50	292	200 - 600A

*** Amperage Guide:**

To determine the size of the Internal Disconnect Shield needed, the dimensions and layout of the following must be considered:

- Type of device (disconnect switch or circuit breaker)
- Type of fuse (if fuses are used)
- Wire bend layout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A
89159361
AID1412
AID2212
AID3215

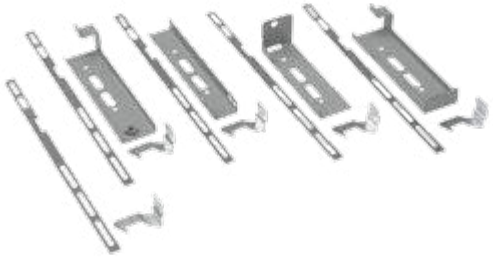
OPERATOR ADAPTERS FOR UNIVERSAL CUTOUTS

Used on all Hoffman Type 4 and 12 disconnect enclosures with a universal flange cutout. An operator adapter is required to install a disconnect in Bulletin A21, A28, A34 and A4L3D Hoffman enclosures that have a universal cutout. Operator adapters include an adapter plate and additional components needed to interlock the master door with the disconnect operating mechanism. Installation instructions are included with each operator adapter. Each brand and type of disconnect requires a different operator adapter. Be sure to select the correct operator adapter and enclosure for the disconnect device selected. A 400A (or greater) disconnect switch and 600A (or greater) circuit breaker require the large handle. A 200A (or less) disconnect switch and 400A (or less) circuit breaker require a small handle.

Old Catalog Number	New Catalog Number	Brand and Type of Operator
A21ABA	ABF	Allen-Bradley 1494F & 1494D Fixed-Depth Mechanisms
A21ABVA	ABS	Allen-Bradley 1494V Variable-Depth; Allen-Bradley 140U; all 140G handles; 1494U Universal; 1494C & 194RC Cable-Operated; Small Handle*
A21ABVA	ABL	Allen-Bradley 1494V Variable-Depth; Allen-Bradley 140U, 1494C & 194RC Cable-Operated; Large Handle*
A21ITE	SITES	Siemens I-T-E Max-Flex; Small Handle*
A21ITE	SITEL	Siemens I-T-E Max-Flex; Large Handle*
A21ITE	ABBSC	ABB Controls, Small Handle*
A21ITE	ABBLC	ABB Controls, Large Handle*
A21CHVA	ABBSV	ABB Variable-Depth, Small Handle*
A21CHVA	ECHV	Eaton Cutler-Hammer C361, C371 Variable Depth
A21CHVA	ECHC	Eaton Cutler-Hammer C371 Flex Shaft Cable-Operated
A21WHA	Discontinued	Eaton Cutler-Hammer/Westinghouse SM mechanisms
A21WHAMTA	WAMT	Eaton Cutler-Hammer/Westinghouse Below Handle AMT & Flex-Cable For F Frame Circuit Breakers
A21WHAMTA	WAMTF	Eaton Cutler-Hammer/Westinghouse Flex-Cable For Circuit Breakers Except For F Frame
A21GETDA	GEV	General Electric STDA Variable-Depth
A21GETDA	GEC	General Electric Flexible Cable-Operated
A21SDA	SQDV	Square D® Class 9422 Variable-Depth
A21SDA	SQDC	Square D® Class 9422 Flex-Cable Mechanisms

* Large handle is for 400A or greater disconnect switch and 600A or greater circuit breaker; small handle is for 200A or less disconnect switch and 400A or less circuit breaker.

OPERATOR ADAPTERS FOR PREFERRED CUTOUTS



An operator adapter is required to install a disconnect in Bulletin A21S4, A28S4 and WS2D Hoffman enclosures that have a preferred cutout. Operator adapters include components needed to interlock the master door with the disconnect operating mechanism. Panel drilling and installation instructions are furnished with each operator adapter.
Each brand and type of disconnect requires a different operator adapter. Be sure to select the proper operator adapter and enclosure for the disconnect that you have selected.

BULLETIN: A28Y

Catalog Number	Brand and Type of Operator
APCABVA	Allen-Bradley 1494V variable-depth Allen-Bradley 140U, 140G and 1494C cable-operated mechanisms
APCCHVA	Eaton Cutler-Hammer C361, C371 and C371 Flex Shaft
APCGETDA	General Electric STDA
APCITE	Siemens I-T-E Max-Flex
APCSDA	Schneider Square D® Class 9422 variable-depth and cable mechanisms

BLANK ADAPTER PLATES, MILD STEEL

Used to cover flange cutouts in disconnect enclosures when disconnects are not installed. This greatly increases the versatility of disconnect enclosures, enabling them to also be used as regular Type 12 enclosures. If the UBP model is used, the disconnect enclosure can be used as a regular Type 4 enclosure. Hoffman adapter plates are made from heavy gauge steel and have an oil-resistant gasket to maintain a dust-tight and oil-tight seal. Mounting hardware and instructions are included. Door hardware is not furnished with blank adapter plate. Door hardware must be ordered separately from the disconnect manufacturer when using catalog numbers A22BAP on Bulletin A22 Enclosures and A3456BAP on Bulletin A25 Enclosures.

BULLETIN: A80, ADY

Catalog Number	Old Catalog Number	For Mild Steel Enclosure
UBP	A21BAP	With Universal Cutouts (i.e. A21, A28, A4L3D, A34)
A22BAP	---	A22 only
A3456BAP	---	With Preferred Cutouts (i.e. A19, CWD, A25, A26)

A22BAP will fit all Bulletin A22 enclosures except A48AB3812A2LP and A60AB3812A2LP.

A3456BAP will fit all Bulletin A25 enclosures except A60SA3812A24LP.

BLANK ADAPTER PLATES, STAINLESS STEEL

Used to cover flange cutouts in disconnect enclosures when disconnects are not installed. Hoffman adapter plates are made from heavy gauge Type 304 stainless steel and have an oil-resistant gasket to maintain the dust-tight and oil-tight qualities of the enclosure. The plates have a #4 brushed finish. All necessary mounting hardware and instructions are included.

BULLETIN: A80

Catalog Number	For Enclosure
A2128BAPSS	With preferred cutouts (i.e. A19S, CWSD, A21S4, A28S4, WS2D, A4S2, WS1D)

ENCLOSURE STABILIZERS

Helps prevent injury to workers by stabilizing floor-mount enclosures which are not bolted down. To install, slip the stabilizer under the floor stand and tighten two thumb screws. Made from .19-in. (5-mm) steel plate. Bright orange finish.

BULLETIN: A80

Catalog Number	Description
AENST	Two stabilizers

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CHAPTER 6
MODULAR ENCLOSURE SOLUTIONS

INDUSTRIAL PACKAGES, TYPE 12

PROLINE G2 Industrial Packages are full-featured, ready-to-use enclosure solutions that make it unnecessary to order each component separately. For convenience, a single part number includes a frame, solid door(s), handle and key lock, a solid top, solid rear cover, a full mounting subpanel, a gland plate, and four lifting eyes. Side covers ordered separately to accommodate joining/baying applications.

FRAMES

The PROLINE G2 frame is the foundational design element that protects the components inside this modular enclosure. The frame was designed to withstand heavier load requirements and maintain a solid square structure and foundation for the electrical enclosure.

DISCONNECT PACKAGES, TYPE 12

PROLINE G2 Disconnect Packages are full-featured, ready-to-use enclosures which make it easy to create flange-mount disconnect solutions using major brand disconnect switches and circuit breakers. A hinged disconnect mullion provides unobstructed access to the interior and maximum access to the Full Mounting Subpanel (Mounting Plate). A flush swing handle with defeater operates an internal 3-point latch system on the disconnect door and latches to the disconnect mullion. Interlocking is provided from the primary door to the disconnect mullion. Side covers are included with PROLINE G2 Disconnect Packages.

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PROLINE-SY, Type 12 584

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NEXT GENERATION MODULAR ENCLOSURE

APPLICATION

- Industrial automation controls (PLC, VFD)
- Process controls (DCS, SCADA, Safety Systems)
- Networking in industrial environments
- Electrical panels
- Equipment protection
- Power distribution
- HMI controls

FEATURES

PROLINE G2 is designed to bear the advanced loads and harsh environments of industrial applications, while at the same time making the electrical enclosure easier to use and faster to populate. PROLINE G2 features an innovative modular design which offers the following benefits:

- Better Interior Access - Removable doors, tops, sides and bases.
- More Mounting Options - Multiple subpanels, rack mounting, swing-out panels or racks, grid system mounting.
- Designed to Join/Bay - Join enclosures without field modification. Easier to move and ship large systems.
- Custom Solutions from Standard Components - Hundreds of components and accessories that can be used to create unique plug and play solutions.

MODULAR ENCLOSURES PRODUCT DESCRIPTION

INDUSTRY STANDARDS

Gasketed assembled enclosure

UL 508A Listed; Type 12; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC Type 12
CSA File Number 42186: Type 12
VDE IP55
IEC 60529, IP55

EMC assembled enclosure

UL 508A Listed; Type 1; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 1; File Number E61997

NEMA/EEMAC Type 1
IEC 60529, IP30

OPTIONS

Frames
- Painted or plated (EMC)
- Frames designed for computer system and operator interface applications
- Dress Frame
- Joining Kits

External Components
Doors
- Single or Overlapping Double Door
- Window Door (safety glass or polycarbonate)
- Disconnect Door
- Painted or plated (EMC)

Tops
- Solid Top
- Pagoda Top
- High-Performance Pagoda Exhaust Vent
- Painted or plated (EMC)

Bases
- Solid Base
- Fully Sealed Plinth Base (100mm solid base)
- 100mm or 200mm Plinth Base
- Transportation Base
- Mobile Base
- Solid Gland Plate
- Painted or plated (EMC)

Exterior Accessories (partial list)
- Variety of handle options
- Variety of lock options
- Lifting Eyes and Lifting Angles
- Casters and Leveling Feet
- Door Stop Kit

Internal Components
Mounting Subpanel options
- Full Subpanel
- Partial Subpanel
- Swing-Out Subpanel
- Side-Mount Subpanel (full and partial)
- Joining Subpanel
- Painted or conductive

Rack and Grid Mount options
- Grid Straps (front to back, side to side or vertical)
- 19-in. Rack Angles
- Swing-Out Rack Frame

Interior Accessories (partial list)
- Door Interlocks
- Barrier Panels
- Shelves
- LED Lights
- Cable management solutions

ORDERING

PROLINE G2 products can be supplied in any of the following ways to best suit your needs:

Customer-Specified Assemblies
Hoffman will build and ship a custom PROLINE G2 assembled enclosure based on your specifications. To configure your custom configuration, use the Hoffman 3D Configurator on the Hoffman website or work with your Hoffman distributor.

Preassembled Enclosures
Preconfigured assemblies are available for a variety of applications, general industrial, disconnect applications, computer systems (PC) and HMI applications (SY). These options allow you to select a complete system that includes the frame, top, base, doors and internal mounting accessories by simply ordering one catalog number.

Individual Parts
If your process is better suited to receiving individual PROLINE G2 parts and completing the assembly yourself (PTO - Parts to Order), we can accommodate you. Frames and internal and external components are available for shipment from our warehouse or Distributor stock.

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INDUSTRIAL PACKAGES, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997

NEMA/EEMAC Type 12
CSA File Number 42186; Type 12
VDE IP55
IEC 60529, IP55

APPLICATION

PROLINE G2 Industrial Packages are full-featured, ready-to-use enclosure solutions that make it unnecessary to order each component separately. For convenience, a single part number includes a frame, solid door(s), handle and key lock, a solid top, a solid rear cover, a full mounting subpanel, a gland plate, and four lifting eyes. Side covers ordered separately to accommodate joining/baying applications.

FEATURES

(Refer to separate specifications for more complete details of individual components)

- 12 gauge, roll-formed steel frame with welded steel corners and hybrid frame profile for superior performance under load
- Large galvanized mounting subpanel
- EZ-Load Glide Blocks, which accommodate five loading methods
- Smooth glide latching system for a solid seal with a low closure force
- Galvanized Duro-Stand gland plate
- Wide range of standard size options
- 'E' version (right-hinged and double-bit insert key lock)

SPECIFICATIONS

(Refer to separate specification sheets for more complete details of individual components)

Frame

- 12-gauge (2.5 mm) roll formed steel frame, fully welded corners, hybrid profile
- Accommodate the 25-mm DIN standard and include rectangular and round holes

Gasket

- Seamless polyurethane gasket provides a watertight, dust-tight seal against moisture and contaminants
- UL component recognized, CSA compliant
- Sealed mounting for all external accessories

Doors

- Door bar system on all doors (including window doors)
- Single/primary door includes 3-point roller latch system with timed latch engagement for enclosures ≥1000 mm in height
- 2-door enclosures include overlapping double doors to provide full-width open front; secondary door latches with two levers
- Reversible hinging on single doors (default left hinge)
- Reversible hinging on overlapping double doors (default right door primary door)
- Two grounding studs
- Low-Profile Swing Handle with key lock on standard versions; double bit lock on 'E' versions. Other options available.

Mounting subpanel

- Includes EZ-Load Mounting Blocks, which accommodate five loading options: vertical front, vertical side, vertical rear, horizontal front (frame over subpanel), horizontal rear (subpanel lowered into frame)
- Subpanel is securely fastened to the top and bottom of the frame. Enclosures less than 1200 mm tall use 4 sets of EZ-Load Glide Blocks. Enclosures 1200 mm tall or greater use 8 sets of glide blocks for a well secured subpanel.
- Depth adjustable, accommodates back-to-back subpanels
- Galvanized full subpanel default; painted subpanel available

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BULLETIN: P41

Standard Product **Left-Hinged**

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K664	602 x 608 x 405 23.70 x 23.92 x 15.94	600 23.6	600 23.6	400 15.7	506x528 19.9x20.8	1	8	Key Lock
P2K666	602 x 608 x 605 23.70 x 23.92 x 23.82	600 23.6	600 23.6	600 23.6	506x528 19.9x20.8	1	8	Key Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K688	602 x 808 x 805 23.70 x 31.80 x 31.69	600 23.6	800 31.5	800 31.5	506x728 19.9x28.7	1	8	Key Lock
P2K866	802 x 608 x 605 31.57 x 23.92 x 23.82	800 31.5	600 23.6	600 23.6	706x528 27.8x20.8	1	13	Key Lock
P2K888	802 x 808 x 805 31.57 x 31.80 x 31.69	800 31.5	800 31.5	800 31.5	706x728 27.8x28.7	1	13	Key Lock
P2K1064	1002 x 608 x 405 39.45 x 23.92 x 15.94	1000 39.4	600 23.6	400 15.7	906x528 35.7x20.8	1	18	Key Lock
P2K1065	1002 x 608 x 505 39.45 x 23.92 x 19.88	1000 39.4	600 23.6	500 19.7	906x528 35.7x20.8	1	18	Key Lock
P2K1066	1002 x 608 x 605 39.45 x 23.92 x 23.82	1000 39.4	600 23.6	600 23.6	906x528 35.7x20.8	1	18	Key Lock
P2K1085	1002 x 808 x 505 39.45 x 31.80 x 19.88	1000 39.4	800 31.5	500 19.7	906x728 35.7x28.7	1	18	Key Lock
P2K1086	1002 x 808 x 605 39.45 x 31.80 x 23.82	1000 39.4	800 31.5	600 23.6	906x728 35.7x28.7	1	18	Key Lock
P2K1088	1002 x 808 x 805 39.45 x 31.80 x 31.69	1000 39.4	800 31.5	800 31.5	906x728 35.7x28.17	1	18	Key Lock
P2K1264	1202 x 608 x 405 47.32 x 23.92 x 15.94	1200 47.2	600 23.6	400 15.7	1106x528 43.5x20.8	1	23	Key Lock
P2K1265	1202 x 608 x 505 47.32 x 23.92 x 19.88	1200 47.2	600 23.6	500 19.7	1106x528 43.5x20.8	1	23	Key Lock
P2K1266	1202 x 608 x 605 47.32 x 23.92 x 23.82	1200 47.2	600 23.6	600 23.6	1106x528 43.5x20.8	1	23	Key Lock
P2K1285	1202 x 808 x 505 47.32 x 31.80 x 19.88	1200 47.2	800 31.5	500 19.7	1106x728 43.5x28.7	1	23	Key Lock
P2K1286	1202 x 808 x 605 47.32 x 31.80 x 23.82	1200 47.2	800 31.5	600 23.6	1106x728 43.5x28.7	1	23	Key Lock
P2K1288	1202 x 808 x 805 47.32 x 31.80 x 31.69	1200 47.2	800 31.5	800 31.5	1106x728 43.5x28.7	1	23	Key Lock
P2K0D12125	1202 x 1208 x 505 47.32 x 47.54 x 19.88	1200 47.2	1200 47.2	500 19.7	1106x1128 43.5x44.4	2	23	Key Lock
P2K1465	1402 x 608 x 505 55.20 x 23.92 x 19.88	1400 55.1	600 23.6	500 19.7	1306x528 51.4x20.8	1	28	Key Lock
P2K1466	1402 x 608 x 605 55.20 x 23.92 x 23.82	1400 55.1	600 23.6	600 23.6	1306x528 51.4x20.8	1	28	Key Lock
P2K1485	1402 x 808 x 505 55.20 x 31.80 x 19.88	1400 55.1	800 31.5	500 19.7	1306x728 51.4x28.7	1	28	Key Lock
P2K1486	1402 x 808 x 605 55.20 x 31.80 x 23.82	1400 55.1	800 31.5	600 23.6	1306x728 51.4x28.7	1	28	Key Lock
P2K1488	1402 x 808 x 805 55.20 x 31.80 x 31.69	1400 55.1	800 31.5	800 31.5	1306x728 51.4x28.7	1	28	Key Lock
P2K0D14125	1402 x 1208 x 505 55.20 x 47.54 x 19.88	1400 55.1	1200 47.2	500 19.7	1306x1128 51.4x44.4	2	28	Key Lock
P2K1664	1602 x 608 x 405 63.07 x 23.92 x 15.94	1600 63.0	600 23.6	400 15.9	1506x528 59.3x20.8	1	33	Key Lock
P2K1665	1602 x 608 x 505 63.07 x 23.92 x 19.88	1600 63.0	600 23.6	500 19.7	1506x528 59.3x20.8	1	33	Key Lock
P2K1666	1602 x 608 x 605 63.07 x 23.92 x 23.82	1600 63.0	600 23.6	600 23.6	1506x528 59.3x20.8	1	33	Key Lock
P2K1668	1602 x 608 x 805 63.07 x 23.92 x 31.69	1600 63.0	600 23.6	800 31.5	1506x528 59.3x20.8	1	33	Key Lock
P2K1684	1602 x 808 x 405 63.07 x 31.80 x 15.94	1600 63.0	800 31.5	400 15.7	1506x728 59.3x28.7	1	33	Key Lock
P2K1685	1602 x 808 x 505 63.07 x 31.80 x 19.88	1600 63.0	800 31.5	500 19.7	1506x728 59.3x28.7	1	33	Key Lock
P2K1686	1602 x 808 x 605 63.07 x 31.80 x 23.82	1600 63.0	800 31.5	600 23.6	1506x728 59.3x28.7	1	33	Key Lock
P2K1688	1602 x 808 x 805 63.07 x 31.80 x 31.69	1600 63.0	800 31.5	800 31.5	1506x728 59.3x28.7	1	33	Key Lock
P2K0D16124	1602 x 1208 x 405 63.07 x 47.54 x 15.94	1600 63.0	1200 47.2	400 15.7	1506x1128 59.3x44.4	2	33	Key Lock
P2K0D16125	1602 x 1208 x 505 63.07 x 47.54 x 19.88	1600 63.0	1200 47.2	500 19.7	1506x1128 59.3x44.4	2	33	Key Lock
P2K0D16126	1602 x 1208 x 605 63.07 x 47.54 x 23.82	1600 63.10	1200 47.2	600 23.6	1506x1128 59.3x44.4	2	33	Key Lock
P2K0D16128	1602 x 1208 x 805 63.07 x 47.54 x 31.69	1600 63.0	1200 47.2	800 31.5	1506x1128 59.3x44.4	2	33	Key Lock
P2K0D16164	1602 x 1608 x 405 63.07 x 63.29 x 15.94	1600 63.0	1600 63.0	400 15.7	1506x1528 59.3x60.2	2	33	Key Lock
P2K0D16165	1602 x 1608 x 505 63.07 x 63.29 x 19.88	1600 63.0	1600 63.0	500 19.7	1506x1528 59.3x60.2	2	33	Key Lock
P2K0D16166	1602 x 1608 x 605 63.07 x 63.29 x 23.82	1600 63.0	1600 63.0	600 23.6	1506x1528 59.3x60.2	2	33	Key Lock
P2K0D16168	1602 x 1608 x 805 63.07 x 63.29 x 31.69	1600 63.0	1600 63.0	800 31.5	1506x1528 59.3x60.2	2	33	Key Lock
P2K1845	1802 x 408 x 505 70.94 x 16.05 x 19.88	1800 70.9	400 15.7	500 19.7	1706x328 67.2x12.9	1	38	Key Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K1846	1802 x 408 x 605 70.94 x 16.05 x 23.82	1800 70.9	400 15.7	600 23.6	1706x328 67.2x12.9	1	38	Key Lock
P2K1864	1802 x 608 x 405 70.94 x 23.92 x 15.94	1800 70.9	600 23.6	400 15.7	1706x528 67.2x20.8	1	38	Key Lock
P2K1865	1802 x 608 x 505 70.94 x 23.92 x 19.88	1800 70.9	600 23.6	500 19.7	1706x528 67.2x20.8	1	38	Key Lock
P2K1866	1802 x 608 x 605 70.94 x 23.92 x 23.82	1800 70.9	600 23.6	600 23.6	1706x528 67.2x20.8	1	38	Key Lock
P2K1868	1802 x 608 x 805 70.94 x 23.92 x 31.69	1800 70.9	600 23.6	800 31.5	1706x528 67.2x12.9	1	38	Key Lock
P2K1884	1802 x 808 x 405 70.94 x 31.80 x 15.94	1800 70.9	800 31.5	400 15.7	1706x728 67.2x28.7	1	38	Key Lock
P2K1885	1802 x 808 x 505 70.94 x 31.80 x 19.88	1800 70.9	800 31.5	500 19.7	1706x728 67.2x28.7	1	38	Key Lock
P2K0D1885	1802 x 808 x 505 70.94 x 31.80 x 19.88	1800 70.9	800 31.5	500 19.7	1706x728 67.2x28.7	2	38	Key Lock
P2K1886	1802 x 808 x 605 70.94 x 31.80 x 23.82	1800 70.9	800 31.5	600 23.6	1706x728 67.2x28.7	1	38	Key Lock
P2K0D1886	1802 x 808 x 605 70.94 x 31.80 x 23.82	1800 70.9	800 31.5	600 23.6	1706x728 67.2x28.7	2	38	Key Lock
P2K1888	1802 x 808 x 805 70.94 x 31.80 x 31.69	1800 70.9	800 31.5	800 31.5	1706x728 67.2x28.7	1	38	Key Lock
P2K18104	1802 x 1008 x 405 70.94 x 39.67 x 15.94	1800 70.9	1000 39.4	400 15.7	1706x928 67.2x36.5	1	38	Key Lock
P2K0D18104	1802 x 1008 x 405 70.94 x 39.67 x 15.94	1800 70.9	1000 39.4	400 15.7	1706x928 67.2x36.5	2	38	Key Lock
P2K18105	1802 x 1008 x 505 70.94 x 39.67 x 19.88	1800 70.9	1000 39.4	500 19.7	1706x928 67.2x36.5	1	38	Key Lock
P2K0D18105	1802 x 1008 x 505 70.94 x 39.67 x 19.88	1800 70.9	1000 39.4	500 19.7	1706x928 67.2x36.5	2	38	Key Lock
P2K18106	1802 x 1008 x 605 70.94 x 39.67 x 23.82	1800 70.9	1000 39.4	600 23.6	1706x928 67.2x36.5	1	38	Key Lock
P2K0D18106	1802 x 1008 x 605 70.94 x 39.67 x 23.82	1800 70.9	1000 39.4	600 23.6	1706x928 67.2x36.5	2	38	Key Lock
P2K18108	1802 x 1008 x 805 70.94 x 39.67 x 31.69	1800 70.9	1000 39.4	800 31.5	1706x928 67.2x36.5	1	38	Key Lock
P2K0D18108	1802 x 1008 x 805 70.94 x 39.67 x 31.69	1800 70.9	1000 39.4	800 31.5	1706x928 67.2x36.5	2	38	Key Lock
P2K0D18124	1802 x 1208 x 405 70.94 x 47.54 x 15.94	1800 70.9	1200 47.2	400 15.7	1706x1128 67.2x44.4	2	38	Key Lock
P2K0D18125	1802 x 1208 x 505 70.94 x 47.54 x 19.88	1800 70.9	1200 47.2	500 19.7	1706x1128 67.2x44.4	2	38	Key Lock
P2K0D18126	1802 x 1208 x 605 70.94 x 47.54 x 23.82	1800 70.9	1200 47.2	600 23.6	1706x1128 67.2x44.4	2	38	Key Lock
P2K0D18128	1802 x 1208 x 805 70.94 x 47.54 x 31.69	1800 70.9	1200 47.2	800 31.5	1706x1128 67.2x44.4	2	38	Key Lock
P2K0D18164	1802 x 1608 x 405 70.94 x 63.29 x 15.94	1800 70.9	1600 63.0	400 15.7	1706x1528 67.2x60.2	2	38	Key Lock
P2K0D18165	1802 x 1608 x 505 70.94 x 63.29 x 19.88	1800 70.9	1600 63.0	500 19.7	1706x1528 67.2x60.2	2	38	Key Lock
P2K0D18166	1802 x 1608 x 605 70.94 x 63.29 x 23.82	1800 70.9	1600 63.0	600 23.6	1706x1528 67.2x60.2	2	38	Key Lock
P2K0D18168	1802 x 1608 x 805 70.94 x 63.29 x 31.69	1800 70.9	1600 63.0	800 31.5	1706x1528 67.2x60.2	2	38	Key Lock
P2K0D18185	1802 x 1808 x 505 70.94 x 71.17 x 19.88	1800 70.9	1800 70.9	500 19.7	1706x1728 67.2x68.0	2	38	Key Lock
P2K0D18186	1802 x 1808 x 605 70.94 x 71.17 x 23.82	1800 70.9	1800 70.9	600 23.6	1706x1728 67.2x68.0	2	38	Key Lock
P2K0D18188	1802 x 1808 x 805 70.94 x 71.17 x 31.69	1800 70.9	1800 70.9	800 31.5	1706x1728 67.2x68.0	2	38	Key Lock
P2K2045	2002 x 408 x 505 78.82 x 16.05 x 19.88	2000 78.7	400 15.7	500 19.7	1906x328 75x12.9	1	42	Key Lock
P2K2046	2002 x 408 x 605 78.82 x 16.05 x 23.82	2000 78.7	400 15.7	600 23.6	1906x328 75x12.9	1	42	Key Lock
P2K2064	2002 x 608 x 405 78.82 x 23.92 x 15.94	2000 78.7	600 23.6	400 15.7	1906x528 75x20.8	1	42	Key Lock
P2K2065	2002 x 608 x 505 78.82 x 23.92 x 19.88	2000 78.7	600 23.6	500 19.7	1906x528 75x20.8	1	42	Key Lock
P2K2066	2002 x 608 x 605 78.82 x 23.92 x 23.82	2000 78.7	600 23.6	600 23.6	1906x528 75x20.8	1	42	Key Lock
P2K2068	2002 x 608 x 805 78.82 x 23.92 x 31.69	2000 78.7	600 23.6	800 31.5	1906x528 75x20.8	1	42	Key Lock
P2K2084	2002 x 808 x 405 78.82 x 31.80 x 15.94	2000 78.7	800 31.5	400 15.7	1906x728 75x28.7	1	42	Key Lock
P2K0D2084	2002 x 808 x 405 78.82 x 31.80 x 15.94	2000 78.7	800 31.5	400 15.7	1906x728 75x28.7	2	42	Key Lock
P2K2085	2002 x 808 x 505 78.82 x 31.80 x 19.88	2000 78.7	800 31.5	500 19.7	1906x728 75x28.7	1	42	Key Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K0D2085	2002 x 808 x 505 78.82 x 31.80 x 19.88	2000 78.7	800 31.5	500 19.7	1906x728 75x28.7	2	42	Key Lock
P2K2086	2002 x 808 x 605 78.82 x 31.80 x 23.82	2000 78.7	800 31.5	600 23.6	1906x728 75x28.7	1	42	Key Lock
P2K0D2086	2002 x 808 x 605 78.82 x 31.80 x 23.82	2000 78.7	800 31.5	600 23.6	1906x728 75x28.7	2	42	Key Lock
P2K2088	2002 x 808 x 805 78.82 x 31.80 x 31.69	2000 78.7	800 31.5	800 31.5	1906x728 75x28.7	1	42	Key Lock
P2K0D2088	2002 x 808 x 805 78.82 x 31.80 x 31.69	2000 78.7	800 31.5	800 31.5	1906x728 75x28.7	2	42	Key Lock
P2K20810	2002 x 808 x 1005 78.82 x 31.80 x 39.57	2000 78.7	800 31.5	1000 39.4	1906x728 75x28.7	1	42	Key Lock
P2K0D20810	2002 x 808 x 1005 78.82 x 31.80 x 39.57	2000 78.7	800 31.5	1000 39.4	1906x728 75x28.7	2	42	Key Lock
P2K20105	2002 x 1008 x 505 78.82 x 39.67 x 19.88	2000 78.7	1000 39.4	500 19.7	1906x928 75x36.5	1	42	Key Lock
P2K0D20105	2002 x 1008 x 505 78.82 x 39.67 x 19.88	2000 78.7	1000 39.4	500 19.7	1906x928 75x36.5	2	42	Key Lock
P2K20106	2002 x 1008 x 605 78.82 x 39.67 x 23.82	2000 78.7	1000 39.4	600 23.6	1906x928 75x36.5	1	42	Key Lock
P2K0D20106	2002 x 1008 x 605 78.82 x 39.67 x 23.82	2000 78.7	1000 39.4	600 23.6	1906x928 75x36.5	2	42	Key Lock
P2K20104	2002 x 1008 x 405 78.82 x 39.67 x 15.94	2000 78.7	1000 39.4	400 15.7	1906x928 75x36.5	1	42	Key Lock
P2K20108	2002 x 1008 x 805 78.82 x 39.67 x 31.69	2000 78.7	1000 39.4	800 31.5	1906x928 75x36.5	1	42	Key Lock
P2K0D20108	2002 x 1008 x 805 78.82 x 39.67 x 31.69	2000 78.7	1000 39.4	800 31.5	1906x928 75x36.5	2	42	Key Lock
P2K0D20124	2002 x 1208 x 405 78.82 x 47.54 x 15.94	2000 78.7	1200 47.2	400 15.7	1906x1128 75x44.4	2	42	Key Lock
P2K0D20125	2002 x 1208 x 505 78.82 x 47.54 x 19.88	2000 78.7	1200 47.2	500 19.7	1906x1128 75x44.4	2	42	Key Lock
P2K0D20126	2002 x 1208 x 605 78.82 x 47.54 x 23.82	2000 78.7	1200 47.2	600 23.6	1906x1128 75x44.4	2	42	Key Lock
P2K0D20128	2002 x 1208 x 805 78.82 x 47.54 x 31.69	2000 78.7	1200 47.2	800 31.5	1906x1128 75x44.4	2	42	Key Lock
P2K0D20165	2002 x 1608 x 505 78.82 x 63.29 x 19.88	2000 78.7	1600 63.0	500 19.7	1906x1528 75x60.2	2	42	Key Lock
P2K0D20166	2002 x 1608 x 605 78.82 x 63.29 x 23.82	2000 78.7	1600 63.0	600 23.6	1906x1528 75x60.2	2	42	Key Lock
P2K0D20168	2002 x 1608 x 805 78.82 x 63.29 x 31.69	2000 78.7	1600 63.0	800 31.5	1906x1528 75x60.2	2	42	Key Lock
P2K0D20185	2002 x 1808 x 505 78.82 x 71.17 x 19.88	2000 78.7	1800 70.9	500 19.7	1906x1728 75x68.0	2	42	Key Lock
P2K0D20186	2002 x 1808 x 605 78.82 x 71.17 x 23.82	2000 78.7	1800 70.9	600 23.6	1906x1728 75x68.0	2	42	Key Lock
P2K0D20188	2002 x 1808 x 805 78.82 x 71.17 x 31.69	2000 78.7	1800 70.9	800 31.5	1906x1728 75x68.0	2	42	Key Lock
P2K2265	2202 x 608 x 505 86.69 x 23.92 x 19.88	2200 86.6	600 23.6	500 19.7	2106x528 82.9x20.8	1	47	Key Lock
P2K2266	2202 x 608 x 605 86.69 x 23.92 x 23.82	2200 86.6	600 23.6	600 23.6	2106x528 82.9x20.8	1	47	Key Lock
P2K2268	2202 x 608 x 805 86.69 x 23.92 x 31.69	2200 86.6	600 23.6	800 31.5	2106x528 82.9x20.8	1	47	Key Lock
P2K2285	2202 x 808 x 505 86.69 x 31.80 x 19.88	2200 86.6	800 31.5	500 19.7	2106x728 82.9x28.7	1	47	Key Lock
P2K2286	2202 x 808 x 605 86.69 x 31.80 x 23.82	2200 86.6	800 31.5	600 23.6	2106x728 82.9x28.7	1	47	Key Lock
P2K2288	2202 x 808 x 805 86.69 x 31.80 x 31.69	2200 86.6	800 31.5	800 31.5	2106x728 82.9x28.7	1	47	Key Lock
P2K0D2288	2202 x 808 x 805 86.69 x 31.80 x 31.69	2200 86.6	800 31.5	800 31.5	2106x728 82.9x28.7	2	47	Key Lock
P2K22810	2202 x 808 x 1005 86.69 x 31.80 x 39.57	2200 86.6	800 31.5	1000 39.4	2106x728 82.9x28.7	1	47	Key Lock
P2K0D22810	2202 x 808 x 1005 86.69 x 31.80 x 39.57	2200 86.6	800 31.5	1000 39.4	2106x728 82.9x28.7	2	47	Key Lock
P2K22105	2202 x 1008 x 505 86.69 x 39.67 x 19.88	2200 86.6	1000 39.4	500 19.7	2106x928 82.9x36.5	1	47	Key Lock
P2K0D22105	2202 x 1008 x 505 86.69 x 39.67 x 19.88	2200 86.6	1000 39.4	500 19.7	2106x928 82.9x36.5	2	47	Key Lock
P2K22106	2202 x 1008 x 605 86.69 x 39.67 x 23.82	2200 86.6	1000 39.4	600 23.6	2106x928 82.9x20.8	1	47	Key Lock
P2K0D22106	2202 x 1008 x 605 86.69 x 39.67 x 23.82	2200 86.6	1000 39.4	600 23.6	2106x928 82.9x36.5	2	47	Key Lock
P2K22108	2202 x 1008 x 805 86.69 x 39.67 x 31.69	2200 86.6	1000 39.4	800 31.5	2106x928 82.9x36.5	1	47	Key Lock
P2K0D22108	2202 x 1008 x 805 86.69 x 39.67 x 31.69	2200 86.6	1000 39.4	800 31.5	2106x928 82.9x36.5	2	47	Key Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2KOD22125	2202 x 1208 x 505 86.69 x 47.54 x 19.88	2200 86.6	1200 47.2	500 19.7	2106x1128 82.9x44.4	2	47	Key Lock
P2KOD22126	2202 x 1208 x 605 86.69 x 47.54 x 23.82	2200 86.6	1200 47.2	600 23.6	2106x1128 82.9x44.4	2	47	Key Lock
P2KOD22128	2202 x 1208 x 805 86.69 x 47.54 x 31.69	2200 86.6	1200 47.2	800 31.5	2106x1128 82.9x44.4	2	47	Key Lock
P2KOD22165	2202 x 1608 x 505 86.69 x 63.29 x 19.88	2200 86.6	1600 63.0	500 19.7	2106x1528 82.9x60.2	2	47	Key Lock
P2KOD22166	2202 x 1608 x 605 86.69 x 63.29 x 23.82	2200 86.6	1600 63.0	600 23.6	2106x1528 82.9x60.2	2	47	Key Lock
P2KOD22168	2202 x 1608 x 805 86.69 x 63.29 x 31.69	2200 86.6	1600 63.0	800 31.5	2106x1528 82.9x60.2	2	47	Key Lock
P2KOD22185	2202 x 1808 x 505 86.69 x 71.17 x 19.88	2200 86.6	1800 70.9	500 19.7	2106x1728 82.9x68.0	2	47	Key Lock
P2KOD22186	2202 x 1808 x 605 86.69 x 71.17 x 23.82	2200 86.6	1800 70.9	600 23.6	2106x1728 82.9x68.0	2	47	Key Lock
P2KOD22188	2202 x 1808 x 805 86.69 x 71.17 x 31.69	2200 86.6	1800 70.9	800 31.5	2106x1728 82.9x68.0	2	47	Key Lock

HxWxD are nominal height, width and depth dimensions.

Standard Product **Right-Hinged**

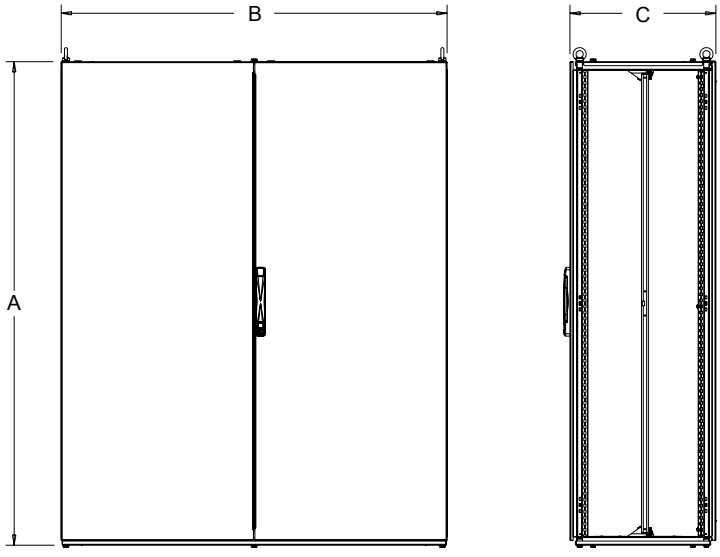
Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K664E	602 x 608 x 405 23.70 x 23.92 x 15.94	600 23.6	600 23.6	400 15.7	506x528 19.9x20.8	1	8	Double-Bit Lock
P2K666E	602 x 608 x 605 23.70 x 23.92 x 23.82	600 23.6	600 23.6	600 23.6	506x528 19.9x20.8	1	8	Double-Bit Lock
P2K688E	602 x 808 x 805 23.70 x 31.80 x 31.69	600 23.6	800 31.5	800 31.5	506x728 19.9x28.7	1	8	Double-Bit Lock
P2K866E	802 x 608 x 605 31.57 x 23.92 x 23.82	800 31.5	600 23.6	600 23.6	706x528 27.8x20.8	1	13	Double-Bit Lock
P2K888E	802 x 808 x 805 31.57 x 31.80 x 31.69	800 31.5	800 31.5	800 31.5	706x728 27.8x28.7	1	13	Double-Bit Lock
P2K1065E	1002 x 608 x 505 39.45 x 23.92 x 19.88	1000 39.4	600 23.6	500 19.7	906x528 35.7x20.8	1	18	Double-Bit Lock
P2K1066E	1002 x 608 x 605 39.45 x 23.92 x 23.82	1000 39.4	600 23.6	600 23.6	906x528 35.7x20.8	1	18	Double-Bit Lock
P2K1085E	1002 x 808 x 505 39.45 x 31.80 x 19.88	1000 39.4	800 31.5	500 19.7	906x728 35.7x28.7	1	18	Double-Bit Lock
P2K1086E	1002 x 808 x 605 39.45 x 31.80 x 23.82	1000 39.4	800 31.5	600 23.6	906x728 35.7x28.7	1	18	Double-Bit Lock
P2K1088E	1002 x 808 x 805 39.45 x 31.80 x 31.69	1000 39.4	800 31.5	800 31.5	906x728 35.7x28.7	1	18	Double-Bit Lock
P2K1264E	1202 x 608 x 405 47.32 x 23.92 x 15.94	1200 47.2	600 23.6	400 15.7	1106x528 43.5x20.8	1	23	Double-Bit Lock
P2K1265E	1202 x 608 x 505 47.32 x 23.92 x 19.88	1200 47.2	600 23.6	500 19.7	1106x528 43.5x20.8	1	23	Double-Bit Lock
P2K1266E	1202 x 608 x 605 47.32 x 23.92 x 23.82	1200 47.2	600 23.6	600 23.6	1106x528 43.5x20.8	1	23	Double-Bit Lock
P2K1285E	1202 x 808 x 505 47.32 x 31.80 x 19.88	1200 47.2	800 31.5	500 19.7	1106x728 43.5x28.7	1	23	Double-Bit Lock
P2K1286E	1202 x 808 x 605 47.32 x 31.80 x 23.82	1200 47.2	800 31.5	600 23.6	1106x728 43.5x28.7	1	23	Double-Bit Lock
P2K1288E	1202 x 808 x 805 47.32 x 31.80 x 31.69	1200 47.2	800 31.5	800 31.5	1106x728 43.5x28.7	1	23	Double-Bit Lock
P2K1466E	1402 x 608 x 605 55.20 x 23.92 x 23.82	1400 55.1	600 23.6	600 23.6	1306x528 51.4x20.8	1	28	Double-Bit Lock
P2K1485E	1402 x 808 x 505 55.20 x 31.80 x 19.88	1400 55.1	800 31.5	500 19.7	1306x728 51.4x28.7	1	28	Double-Bit Lock
P2K1486E	1402 x 808 x 605 55.20 x 31.80 x 23.82	1400 55.1	800 31.5	600 23.6	1306x728 51.4x28.7	1	28	Double-Bit Lock
P2K1488E	1402 x 808 x 805 55.20 x 31.80 x 31.69	1400 55.1	800 31.5	800 31.5	1306x728 51.4x28.7	1	28	Double-Bit Lock
P2KOD14125E	1402 x 1208 x 505 55.20 x 47.54 x 19.88	1400 55.1	1200 47.2	500 19.7	1306x1128 51.4x44.4	2	28	Double-Bit Lock
P2K1664E	1602 x 608 x 405 63.07 x 23.92 x 15.94	1600 63.0	600 23.6	400 15.7	1506x528 59.3x20.8	1	33	Double-Bit Lock
P2K1665E	1602 x 608 x 505 63.07 x 23.92 x 19.88	1600 63.0	600 23.6	500 19.7	1506x528 59.3x20.8	1	33	Double-Bit Lock
P2K1666E	1602 x 608 x 605 63.07 x 23.92 x 23.82	1600 63.0	600 23.6	600 23.6	1506x528 59.3x20.8	1	33	Double-Bit Lock
P2K1668E	1602 x 608 x 805 63.07 x 23.92 x 31.69	1600 63.0	600 23.6	800 31.5	1506x528 59.3x20.8	1	33	Double-Bit Lock
P2K1684E	1602 x 808 x 405 63.07 x 31.80 x 15.94	1600 63.0	800 31.5	400 15.7	1506x728 59.3x28.7	1	33	Double-Bit Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K1685E	1602 x 808 x 505 63.07 x 31.80 x 19.88	1600 63.0	800 31.5	500 19.7	1506x728 59.3x28.7	1	33	Double-Bit Lock
P2K1686E	1602 x 808 x 605 63.07 x 31.80 x 23.82	1600 63.0	800 31.5	600 23.6	1506x728 59.3x28.7	1	33	Double-Bit Lock
P2K1688E	1602 x 808 x 805 63.07 x 31.80 x 31.69	1600 63.0	800 31.5	800 31.5	1506x728 59.3x28.7	1	33	Double-Bit Lock
P2K0D16124E	1602 x 1208 x 405 63.07 x 47.54 x 15.94	1600 63.0	1200 47.2	400 15.7	1506x1128 59.3x44.4	2	33	Double-Bit Lock
P2K0D16125E	1602 x 1208 x 505 63.07 x 47.54 x 19.88	1600 63.0	1200 47.2	500 19.7	1506x1128 59.3x44.4	2	33	Double-Bit Lock
P2K0D16126E	1602 x 1208 x 605 63.07 x 47.54 x 23.82	1600 63.0	1200 47.2	600 23.6	1506x1128 59.3x44.4	2	33	Double-Bit Lock
P2K0D16128E	1602 x 1208 x 805 63.07 x 47.54 x 31.69	1600 63.0	1200 47.2	800 31.5	1506x1128 59.3x44.4	2	33	Double-Bit Lock
P2K0D16164E	1602 x 1608 x 405 63.07 x 63.29 x 15.94	1600 63.0	1600 63.0	400 15.7	1506x1528 59.3x60.2	2	33	Double-Bit Lock
P2K0D16165E	1602 x 1608 x 505 63.07 x 63.29 x 19.88	1600 63.0	1600 63.0	500 19.7	1506x1528 59.3x60.2	2	33	Double-Bit Lock
P2K0D16166E	1602 x 1608 x 605 63.07 x 63.29 x 23.82	1600 63.0	1600 63.0	600 23.6	1506x1528 59.3x60.2	2	33	Double-Bit Lock
P2K0D16168E	1602 x 1608 x 805 63.07 x 63.29 x 31.69	1600 63.0	1600 63.0	800 31.5	1506x1528 59.3x60.2	2	33	Double-Bit Lock
P2K1845E	1802 x 408 x 505 70.94 x 16.05 x 19.88	1800 70.9	400 15.7	500 19.7	1706x328 67.2x12.9	1	38	Double-Bit Lock
P2K1846E	1802 x 408 x 605 70.94 x 16.05 x 23.82	1800 70.9	400 15.7	600 23.6	1706x328 67.2x12.9	1	38	Double-Bit Lock
P2K1864E	1802 x 608 x 405 70.94 x 23.92 x 15.94	1800 70.9	600 23.6	400 15.7	1706x528 67.2x20.8	1	38	Double-Bit Lock
P2K1865E	1802 x 608 x 505 70.94 x 23.92 x 19.88	1800 70.9	600 23.6	500 19.7	1706x528 67.2x20.8	1	38	Double-Bit Lock
P2K1866E	1802 x 608 x 605 70.94 x 23.92 x 23.82	1800 70.9	600 23.6	600 23.6	1706x528 67.2x20.8	1	38	Double-Bit Lock
P2K1884E	1802 x 808 x 405 70.94 x 31.80 x 15.94	1800 70.9	800 31.5	400 15.7	1706x728 67.2x28.7	1	38	Double-Bit Lock
P2K1885E	1802 x 808 x 505 70.94 x 31.80 x 19.88	1800 70.9	800 31.5	500 19.7	1706x728 67.2x28.7	1	38	Double-Bit Lock
P2K0D1885E	1802 x 808 x 505 70.94 x 31.80 x 19.88	1800 70.9	800 31.5	500 19.7	1706x728 67.2x28.7	2	38	Double-Bit Lock
P2K1886E	1802 x 808 x 605 70.94 x 31.80 x 23.82	1800 70.9	800 31.5	600 23.6	1706x728 67.2x28.7	1	38	Double-Bit Lock
P2K0D1886E	1802 x 808 x 605 70.94 x 31.80 x 23.82	1800 70.9	800 31.5	600 23.6	1706x728 67.2x28.7	2	38	Double-Bit Lock
P2K1888E	1802 x 808 x 805 70.94 x 31.80 x 31.69	1800 70.9	800 31.5	800 31.5	1706x728 67.2x28.7	1	38	Double-Bit Lock
P2K18104E	1802 x 1008 x 405 70.94 x 39.67 x 15.94	1800 70.9	1000 39.4	400 15.7	1706x928 67.2x36.5	1	38	Double-Bit Lock
P2K0D18104E	1802 x 1008 x 405 70.94 x 39.67 x 15.94	1800 70.9	1000 39.4	400 15.7	1706x928 67.2x36.5	2	38	Double-Bit Lock
P2K18105E	1802 x 1008 x 505 70.94 x 39.67 x 19.88	1800 70.9	1000 39.4	500 19.7	1706x928 67.2x36.5	1	38	Double-Bit Lock
P2K0D18105E	1802 x 1008 x 505 70.94 x 39.67 x 19.88	1800 70.9	1000 39.4	500 19.7	1706x928 67.2x36.5	2	38	Double-Bit Lock
P2K18106E	1802 x 1008 x 605 70.94 x 39.67 x 23.82	1800 70.9	1000 39.4	600 23.6	1706x928 67.2x36.5	1	38	Double-Bit Lock
P2K0D18106E	1802 x 1008 x 605 70.94 x 39.67 x 23.82	1800 70.9	1000 39.4	600 23.6	1706x928 67.2x36.5	2	38	Double-Bit Lock
P2K0D18124E	1802 x 1208 x 405 70.94 x 47.54 x 15.94	1800 70.9	1200 47.2	400 15.7	1706x1128 67.2x44.4	2	38	Double-Bit Lock
P2K0D18125E	1802 x 1208 x 505 70.94 x 47.54 x 19.88	1800 70.9	1200 47.2	500 19.7	1706x1128 67.2x44.4	2	38	Double-Bit Lock
P2K0D18126E	1802 x 1208 x 605 70.94 x 47.54 x 23.82	1800 70.9	1200 47.2	600 23.6	1706x1128 67.2x44.4	2	38	Double-Bit Lock
P2K0D18128E	1802 x 1208 x 805 70.94 x 47.54 x 31.69	1800 70.9	1200 47.2	800 31.5	1706x1128 67.2x44.4	2	38	Double-Bit Lock
P2K0D18164E	1802 x 1608 x 405 70.94 x 63.29 x 15.94	1800 70.9	1600 63.0	400 15.7	1706x1528 67.2x60.2	2	38	Double-Bit Lock
P2K0D18165E	1802 x 1608 x 505 70.94 x 63.29 x 19.88	1800 70.9	1600 63.0	500 19.7	1706x1528 67.2x60.2	2	38	Double-Bit Lock
P2K0D18166E	1802 x 1608 x 605 70.94 x 63.29 x 23.82	1800 70.9	1600 63.0	600 23.6	1706x1528 67.2x60.2	2	38	Double-Bit Lock
P2K0D18168E	1802 x 1608 x 805 70.94 x 63.29 x 31.69	1800 70.9	1600 63.0	800 31.5	1706x1528 67.2x60.2	2	38	Double-Bit Lock
P2K0D18185E	1802 x 1808 x 505 70.94 x 71.17 x 19.88	1800 70.9	1800 70.9	500 19.7	1706x1728 67.2x68.0	2	38	Double-Bit Lock
P2K0D18186E	1802 x 1808 x 605 70.94 x 71.17 x 23.82	1800 70.9	1800 70.9	600 23.6	1706x1728 67.2x68.0	2	38	Double-Bit Lock
P2K0D18188E	1802 x 1808 x 805 70.94 x 71.17 x 31.69	1800 70.9	1800 70.9	800 31.5	1706x1728 67.2x68.0	2	38	Double-Bit Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K2045E	2002 x 408 x 505 78.82 x 16.05 x 19.88	2000 78.7	400 15.7	500 19.7	1906x328 75x12.9	1	42	Double-Bit Lock
P2K2046E	2002 x 408 x 605 78.82 x 16.05 x 23.82	2000 78.7	400 15.7	600 23.6	1906x328 75x12.9	1	42	Double-Bit Lock
P2K2064E	2002 x 608 x 405 78.82 x 23.92 x 15.94	2000 78.7	600 23.6	400 15.7	1906x528 75x20.8	1	42	Double-Bit Lock
P2K2065E	2002 x 608 x 505 78.82 x 23.92 x 19.88	2000 78.7	600 23.6	500 19.7	1906x528 75x20.8	1	42	Double-Bit Lock
P2K2066E	2002 x 608 x 605 78.82 x 23.92 x 23.82	2000 78.7	600 23.6	600 23.8	1906x528 75x20.8	1	42	Double-Bit Lock
P2K2084E	2002 x 808 x 405 78.82 x 31.80 x 15.94	2000 78.7	800 31.5	400 15.7	1906x728 75x28.7	1	42	Double-Bit Lock
P2KOD2084E	2002 x 808 x 405 78.82 x 31.80 x 15.94	2000 78.7	800 31.5	400 15.7	1906x728 75x28.7	2	42	Double-Bit Lock
P2K2085E	2002 x 808 x 505 78.82 x 31.80 x 19.88	2000 78.7	800 31.5	500 19.7	1906x728 75x28.7	1	42	Double-Bit Lock
P2KOD2085E	2002 x 808 x 505 78.82 x 31.80 x 19.88	2000 78.7	800 31.5	500 19.7	1906x728 75x28.7	2	42	Double-Bit Lock
P2K2086E	2002 x 808 x 605 78.82 x 31.80 x 23.82	2000 78.7	800 31.5	600 23.6	1906x728 75x28.7	1	42	Double-Bit Lock
P2KOD2088E	2002 x 808 x 805 78.82 x 31.80 x 31.69	2000 78.7	800 31.5	800 31.5	1906x728 75x28.7	2	42	Double-Bit Lock
P2KOD20810E	2002 x 808 x 1005 78.82 x 31.80 x 39.57	2000 78.7	800 31.5	1000 39.4	1906x728 75x28.7	2	42	Double-Bit Lock
P2K20810E	2002 x 808 x 1005 78.82 x 31.80 x 39.57	2000 78.7	800 31.5	1000 39.4	1906x728 75x28.7	1	42	Double-Bit Lock
P2K20105E	2002 x 1008 x 505 78.82 x 39.67 x 19.88	2000 78.7	1000 39.4	500 19.7	1906x928 75x36.5	1	42	Double-Bit Lock
P2KOD20105E	2002 x 1008 x 505 78.82 x 39.67 x 19.88	2000 78.7	1000 39.4	500 19.7	1906x928 75x36.5	2	42	Double-Bit Lock
P2K20106E	2002 x 1008 x 605 78.82 x 39.67 x 23.82	2000 78.7	1000 39.4	600 23.6	1906x928 75x36.5	1	42	Double-Bit Lock
P2KOD20106E	2002 x 1008 x 605 78.82 x 39.67 x 23.82	2000 78.7	1000 39.4	600 23.6	1906x928 75x36.5	2	42	Double-Bit Lock
P2K20108E	2002 x 1008 x 805 78.82 x 39.67 x 31.69	2000 78.7	1000 39.4	800 31.5	1906x928 75x36.5	1	42	Double-Bit Lock
P2KOD20108E	2002 x 1008 x 805 78.82 x 39.67 x 31.69	2000 78.7	1000 39.4	800 31.5	1906x928 75x36.5	2	42	Double-Bit Lock
P2KOD20124E	2002 x 1208 x 405 78.82 x 47.54 x 15.94	2000 78.7	1200 47.2	400 15.7	1906x1128 75x44.4	2	42	Double-Bit Lock
P2KOD20125E	2002 x 1208 x 505 78.82 x 47.54 x 19.88	2000 78.7	1200 47.2	500 19.7	1906x1128 75x44.4	2	42	Double-Bit Lock
P2KOD20126E	2002 x 1208 x 605 78.82 x 47.54 x 23.82	2000 78.7	1200 47.2	600 23.6	1906x1128 75x44.4	2	42	Double-Bit Lock
P2KOD20128E	2002 x 1208 x 805 78.82 x 47.54 x 31.69	2000 78.7	1200 47.2	800 31.5	1906x1128 75x44.4	2	42	Double-Bit Lock
P2KOD20165E	2002 x 1608 x 505 78.82 x 63.29 x 19.88	2000 78.7	1600 63.0	500 19.7	1906x1528 75x60.2	2	42	Double-Bit Lock
P2KOD20166E	2002 x 1608 x 605 78.82 x 63.29 x 23.82	2000 78.7	1600 63.0	600 23.6	1906x1528 75x60.2	2	42	Double-Bit Lock
P2KOD20168E	2002 x 1608 x 805 78.82 x 63.29 x 31.69	2000 78.7	1600 63.0	800 31.5	1906x1528 75x60.2	2	42	Double-Bit Lock
P2KOD20185E	2002 x 1808 x 505 78.82 x 71.17 x 19.88	2000 78.7	1800 70.9	500 19.7	1906x1728 75x68.0	2	42	Double-Bit Lock
P2KOD20186E	2002 x 1808 x 605 78.82 x 71.17 x 23.82	2000 78.7	1800 70.9	600 23.6	1906x1728 75x68.0	2	42	Double-Bit Lock
P2KOD20188E	2002 x 1808 x 805 78.82 x 71.17 x 31.69	2000 78.7	1800 70.9	800 31.5	1906x1728 75x68.0	2	42	Double-Bit Lock
P2K2265E	2202 x 608 x 505 86.69 x 23.92 x 19.88	2200 86.6	600 23.6	500 19.7	2106x528 82.9x20.8	1	47	Double-Bit Lock
P2K2266E	2202 x 608 x 605 86.69 x 23.92 x 23.82	2200 86.6	600 23.6	600 23.6	2106x528 82.9x20.8	1	47	Double-Bit Lock
P2K2285E	2202 x 808 x 505 86.69 x 31.80 x 19.88	2200 86.6	800 31.5	500 19.7	2106x728 82.9x28.7	1	47	Double-Bit Lock
P2KOD2285E	2202 x 808 x 505 86.69 x 31.80 x 19.88	2200 86.6	800 31.5	500 19.7	2106x728 82.9x28.7	2	47	Double-Bit Lock
P2K2286E	2202 x 808 x 605 86.69 x 31.80 x 23.82	2200 86.6	800 31.5	600 23.6	2106x728 82.9x28.7	1	47	Double-Bit Lock
P2KOD2286E	2202 x 808 x 605 86.69 x 31.80 x 23.82	2200 86.6	800 31.5	600 23.6	2106x728 82.9x28.7	2	47	Double-Bit Lock
P2K2288E	2202 x 808 x 805 86.69 x 31.80 x 31.69	2200 86.6	800 31.5	800 31.5	2106x728 82.9x28.7	1	47	Double-Bit Lock
P2KOD2288E	2202 x 808 x 805 86.69 x 31.80 x 31.69	2200 86.6	800 31.5	800 31.5	2106x728 82.9x28.7	2	47	Double-Bit Lock
P2K22810E	2202 x 808 x 1005 86.69 x 31.80 x 39.57	2200 86.6	800 31.5	1000 39.4	2106x728 82.9x28.7	1	47	Double-Bit Lock
P2KOD22810E	2202 x 808 x 1005 86.69 x 31.80 x 39.57	2200 86.6	800 31.5	1000 39.4	2106x728 82.9x28.7	2	47	Double-Bit Lock

Catalog Number	AxBxC mm/in.	H mm/in.	W mm/in.	D mm/in.	Max. Subpanel HxW mm/in.	No. of Doors	Max. Rack Mount Units	Description
P2K22105E	2202 x 1008 x 505 86.69 x 39.67 x 19.88	2200 86.6	1000 39.4	500 19.7	2106x928 82.9x36.5	1	47	Double-Bit Lock
P2KOD22105E	2202 x 1008 x 505 86.69 x 39.67 x 19.88	2200 86.6	1000 39.4	500 19.7	2106x928 82.9x36.5	2	47	Double-Bit Lock
P2K22106E	2202 x 1008 x 605 86.69 x 39.67 x 23.82	2200 86.6	1000 39.4	600 23.6	2106x928 82.9x36.5	1	47	Double-Bit Lock
P2KOD22106E	2202 x 1008 x 605 86.69 x 39.67 x 23.82	2200 86.6	1000 39.4	600 23.6	2106x928 82.9x36.5	2	47	Double-Bit Lock
P2K22108E	2202 x 1008 x 805 86.69 x 39.67 x 31.69	2200 86.6	1000 39.4	800 31.5	2106x928 82.9x36.5	1	47	Double-Bit Lock
P2KOD22108E	2202 x 1008 x 805 86.69 x 39.67 x 31.69	2200 86.6	1000 39.4	800 31.5	2106x928 82.9x36.5	2	47	Double-Bit Lock
P2KOD22125E	2202 x 1208 x 505 86.69 x 47.54 x 19.88	2200 86.6	1200 47.2	500 19.7	2106x1128 82.9x44.4	2	47	Double-Bit Lock
P2KOD22126E	2202 x 1208 x 605 86.69 x 47.54 x 23.82	2200 86.6	1200 47.2	600 23.6	2106x1128 82.9x44.4	2	47	Double-Bit Lock
P2KOD22128E	2202 x 1208 x 805 86.69 x 47.54 x 31.69	2200 86.6	1200 47.2	800 31.5	2106x1128 82.9x44.4	2	47	Double-Bit Lock
P2KOD22165E	2202 x 1608 x 505 86.69 x 63.29 x 19.88	2200 86.6	1600 63.0	500 19.7	2106x1528 82.9x60.2	2	47	Double-Bit Lock
P2KOD22166E	2202 x 1608 x 605 86.69 x 63.29 x 23.82	2200 86.6	1600 63.0	600 23.6	2106x1528 82.9x60.2	2	47	Double-Bit Lock
P2KOD22168E	2202 x 1608 x 805 86.69 x 63.29 x 31.69	2200 86.6	1600 63.0	800 31.7	2106x1528 82.9x60.2	2	47	Double-Bit Lock
P2KOD22185E	2202 x 1808 x 505 86.69 x 71.17 x 19.88	2200 86.6	1800 70.9	500 19.7	2106x1728 82.9x68.0	2	47	Double-Bit Lock
P2KOD22186E	2202 x 1808 x 605 86.69 x 71.17 x 23.82	2200 86.6	1800 70.9	600 23.6	2106x1728 82.9x68.0	2	47	Double-Bit Lock
P2KOD22188E	2202 x 1808 x 805 86.69 x 71.17 x 31.69	2200 86.6	1800 70.9	800 31.5	2106x1728 82.9x68.0	2	47	Double-Bit Lock

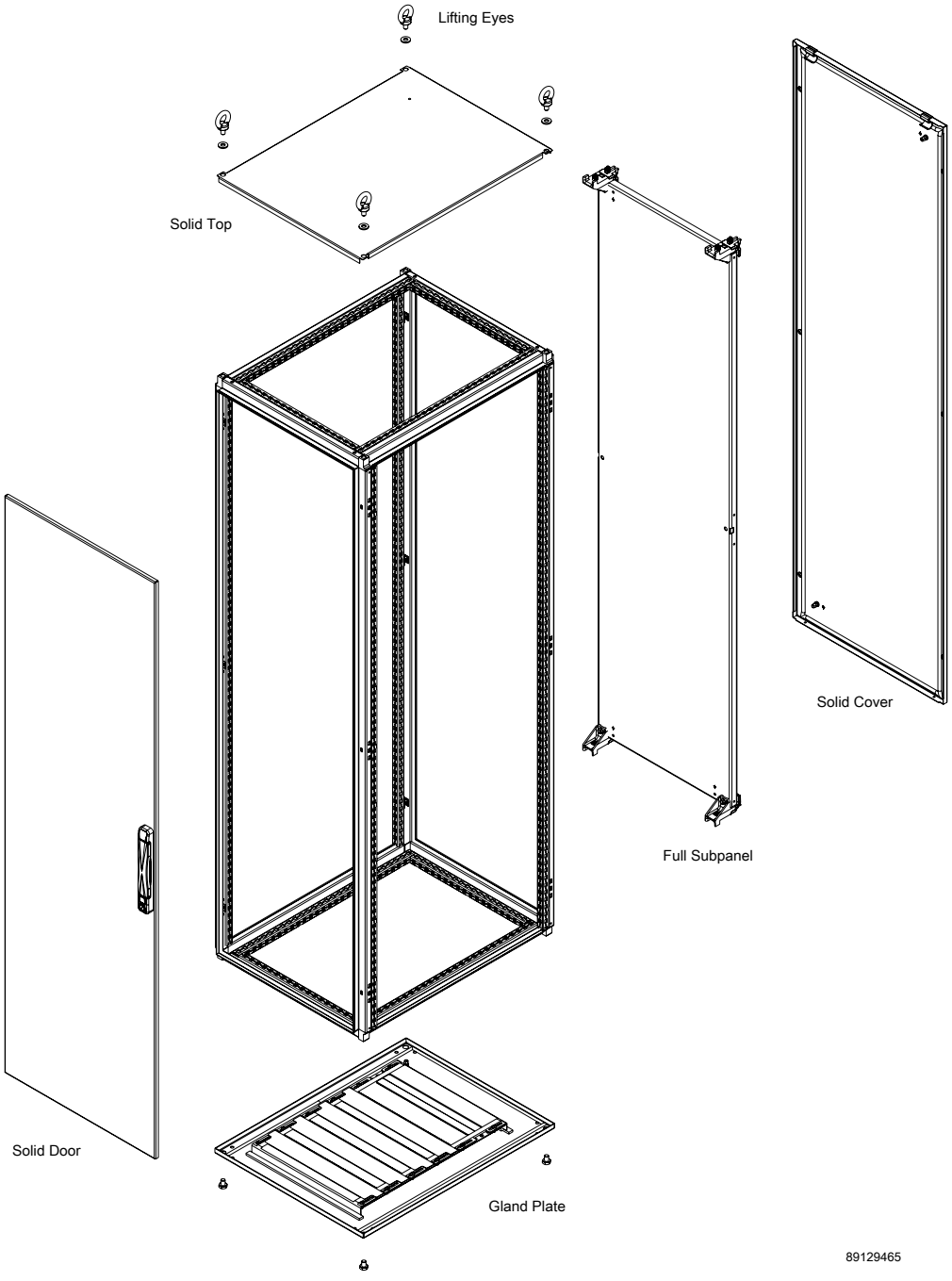
HxWxD are nominal height, width and depth dimensions.



Model	Component	Type	Height	Width	Depth	Specialty		Catalog Number
P2	K	Blank	20	8	6	Blank	=	P2K2086
PROLINE G2	Industrial Package/Kit	Blank = single door OD = overlapping double door DR = disconnect right DL = disconnect left	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = left hinge/ key lock E = right hinge/ double bit lock HF = EMC components		

NOTE: Not every combination is available as a standard product.

Standard Configuration



Component Specifications

Component	Thickness (gauge/mm)	Material	Surface Finish	Load Rating (lb/kg)	Safety Factor*****
Frame	12/2.5	Roll-formed, carbon steel; fully welded corners; 25mm DIN standard	Painted****	3500/1587	1.5
Mounting subpanel*	10-12/3.0-2.5	Carbon steel	Galvanized or Painted Options	2000/907	2.5
Door	14/1.75	Carbon steel	Painted****	250/113	1.5
Covers** and Side Covers***	14-16/1.5-1.75	Carbon steel	Painted****	300/136	1.5
Gland Plate	14/1.75	Carbon steel	Galvanized or Painted Options	200/90	1.5

Load ratings are for an enclosure size of 2000x600x800mm. Load ratings vary by enclosure size.

* Mounting subpanels 1200mm wide or greater are 10 gauge (3.0mm); subpanels less than 1200mm wide are 12 gauge (2.5mm).

** Covers 600 mm wide or greater are 14 gauge (1.75 mm); 600mm wide or less are 16 gauge (1.5 mm)

*** Side Covers greater than 800 mm deep are 14 gauge (1.75 mm); 800mm or less deep are 16gauge (1.5 mm)

**** Powder-coated color RAL 7035 textured light-gray; custom colors available

***** IEC 62208 uses a 1.25 safety factor, which would result in higher load ratings

Industrial Package Size Matrix **Nominal Sizes**

Height mm/in.	Width mm/in.	Depth mm/in.
600	600, 800	400, 600, 800
800	600, 800	400, 600, 800
1000	600, 800, 1200	400, 500, 600, 800
1200	600, 800, 1200	400, 500, 600, 800
1400	600, 800, 1200	500, 600, 800
1600	600, 800, 1200	500, 600, 800
1800	600, 800, 1200, 1600	400, 500, 600, 800
2000	400, 600, 800, 1000, 1200, 1600, 1800	400, 500, 600, 800, 1000
2200	400, 600, 800, 1000, 1200, 1600, 1800	400, 500, 600, 800, 1000

Not every depth is available with each width

Custom sizes available upon request

Door Selection Matrix

Width mm/in.	1-Door*	2-Door**
600	•	
800	•	•
1000	•	•
1200 or greater		•

* Reversible hinging

** Overlapping double door; reversible hinging

Metal Fiber Gasket Performance Level

MHz Range	30 – 230	230 - 1000	1000 - 2000
Shielding Level (dB)	40	15	10

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SELECTION MATRIX: DISCONNECT PACKAGES, TYPE 12

Frame	A	B	C	No. of Doors	Solid Disconnect Top	Solid Side Cover	Solid Rear Cover	Solid Disconnect Door (Left Mullion, Standard Cut-out)	Solid Disconnect Door (Right Mullion, Standard Cut-out)	Solid Disconnect Door (Right Mullion, Large Cut-out)	Solid Rear Door	Disconnect Gland Plate	Disconnect Plinth Base, 100mm	Disconnect Mounting Subpanel
P2F1684	1600	800	400	1	P2T84	P2CS164	P2C168	P2DDL168	P2DDR168	P2DDRL168	P2D168	P2BGP84G	P2BP184	P2P168G
P2F1685	1600	800	500	1	P2T85	P2CS165	P2C168	P2DDL168	P2DDR168	P2DDRL168	P2D168	P2BGP85G	P2BP185	P2P168G
P2F1686	1600	800	600	1	P2T86	P2CS166	P2C168	P2DDL168	P2DDR168	P2DDRL168	P2D168	P2BGP86G	P2BP186	P2P168G
P2F1688	1600	800	800	1	P2T88	P2CS168	P2C168	P2DDL168	P2DDR168	P2DDRL168	P2D168	P2BGP88G	P2BP188	P2P168G
P2F16104	1600	1000	400	1	P2T104	P2CS164	P2C1610	P2DDL1610	P2DDR1610	P2DDRL1610	N/A	P2BGP104G	P2BP1104	P2P1610G
P2F16106	1600	1000	600	1	P2T106	P2CS166	P2C1610	P2DDL1610	P2DDR1610	P2DDRL1610	N/A	P2BGP106G	P2BP1106	P2P1610G
P2FD16124	1600	1200	400	2	P2TD124	P2CS164	P2C1612	P2DDL1612	P2DDR1612	P2DDRL1612	P2DO1612	P2BGPD124	P2BP1D124	P2PD1612G
P2FD16126	1600	1200	600	2	P2TD126	P2CS166	P2C1612	P2DDL1612	P2DDR1612	P2DDRL1612	P2DO1612	P2BGPD126	P2BP1D126	P2PD1612G
P2FD16164	1600	1600	400	2	P2TD164	P2CS164	P2C168 (2)	P2DDL1616	P2DDR1616	P2DDRL1616	P2DO1616	P2BGPD164	P2BP1D164	P2PD1616G
P2FD16166	1600	1600	600	2	P2TD166	P2CS166	P2C168 (2)	P2DDL1616	P2DDR1616	P2DDRL1616	P2DO1616	P2BGPD166	P2BP1D166	P2PD1616G
P2F1884	1800	800	400	1	P2T84	P2CS184	P2C188	P2DDL188	P2DDR188	P2DDRL188	P2D188	P2BGP84G	P2BP184	P2P188G
P2F1885	1800	800	500	1	P2T85	P2CS185	P2C188	P2DDL188	P2DDR188	P2DDRL188	P2D188	P2BGP85G	P2BP185	P2P188G
P2F1886	1800	800	600	1	P2T86	P2CS186	P2C188	P2DDL188	P2DDR188	P2DDRL188	P2D188	P2BGP86G	P2BP186	P2P188G
P2F1888	1800	800	800	1	P2T88	P2CS188	P2C188	P2DDL188	P2DDR188	P2DDRL188	P2D188	P2BGP88G	P2BP188	P2P188G
P2F18104	1800	1000	400	1	P2T104	P2CS184	P2C1810	P2DDL1810	P2DDR1810	P2DDRL1810	P2D1810	P2BGP104G	P2BP1104	P2P1810G
P2F18105	1800	1000	500	1	P2T105	P2CS185	P2C1810	P2DDL1810	P2DDR1810	P2DDRL1810	P2D1810	P2BGP105G	P2BP1105	P2P1810G
P2F18106	1800	1000	600	1	P2T106	P2CS186	P2C1810	P2DDL1810	P2DDR1810	P2DDRL1810	P2D1810	P2BGP106G	P2BP1106	P2P1810G
P2F18108	1800	1000	800	1	P2T108	P2CS188	P2C1810	P2DDL1810	P2DDR1810	P2DDRL1810	P2D1810	P2BGP108G	P2BP1108	P2P1810G
P2FD18124	1800	1200	400	2	P2TD124	P2CS184	P2C1812	P2DDL1812	P2DDR1812	P2DDRL1812	P2DO1812	P2BGPD124	P2BP1D124	P2PD1812G
P2FD18126	1800	1200	600	2	P2TD126	P2CS186	P2C1812	P2DDL1812	P2DDR1812	P2DDRL1812	P2DO1812	P2BGPD126	P2BP1D126	P2PD1812G
P2FD18164	1800	1600	400	2	P2TD164	P2CS184	P2C188 (2)	P2DDL1816	P2DDR1816	P2DDRL1816	P2DO1816	P2BGPD164	P2BP1D164	P2PD1816G
P2FD18166	1800	1600	600	2	P2TD166	P2CS186	P2C188 (2)	P2DDL1816	P2DDR1816	P2DDRL1816	P2DO1816	P2BGPD166	P2BP1D166	P2PD1816G
P2FD18184	1800	1800	400	2	P2TD184	P2CS184	P2C189 (2)	P2DDL1818	P2DDR1818	P2DDRL1818	P2DO1818	P2BGPD184	P2BP1D184	P2PD1818G
P2FD18186	1800	1800	600	2	P2TD186	P2CS186	P2C189 (2)	P2DDL1818	P2DDR1818	P2DDRL1818	P2DO1818	P2BGPD186	P2BP1D186	P2PD1818G
P2F2084	2000	800	400	1	P2T84	P2CS204	P2C208	P2DDL208	P2DDR208	P2DDRL208	P2D208	P2BGP84G	P2BP184	P2P208G
P2F2085	2000	800	500	1	P2T85	P2CS205	P2C208	P2DDL208	P2DDR208	P2DDRL208	P2D208	P2BGP85G	P2BP185	P2P208G
P2F2086	2000	800	600	1	P2T86	P2CS206	P2C208	P2DDL208	P2DDR208	P2DDRL208	P2D208	P2BGP86G	P2BP186	P2P208G
P2F2088	2000	800	800	1	P2T88	P2CS208	P2C208	P2DDL208	P2DDR208	P2DDRL208	P2D208	P2BGP88G	P2BP188	P2P208G
P2F20810	2000	800	1000	1	P2T810	P2CS2010	P2C208	P2DDL208	P2DDR208	P2DDRL208	P2D208	P2BGP810G	P2BP1810	P2P208G
P2F20104	2000	1000	400	1	P2T104	P2CS204	P2C2010	P2DDL2010	P2DDR2010	P2DDRL2010	P2D2010	P2BGP104G	P2BP1104	P2P2010G
P2F20105	2000	1000	500	1	P2T105	P2CS205	P2C2010	P2DDL2010	P2DDR2010	P2DDRL2010	P2D2010	P2BGP105G	P2BP1105	P2P2010G
P2F20106	2000	1000	600	1	P2T106	P2CS206	P2C2010	P2DDL2010	P2DDR2010	P2DDRL2010	P2D2010	P2BGP106G	P2BP1106	P2P2010G
P2F20108	2000	1000	800	1	P2T108	P2CS208	P2C2010	P2DDL2010	P2DDR2010	P2DDRL2010	P2D2010	P2BGP108G	P2BP1108	P2P2010G
P2FD20124	2000	1200	400	2	P2TD124	P2CS204	P2C2012	P2DDL2012	P2DDR2012	P2DDRL2012	P2DO2012	P2BGPD124	P2BP1D124	P2PD2012G
P2FD20126	2000	1200	600	2	P2TD126	P2CS206	P2C2012	P2DDL2012	P2DDR2012	P2DDRL2012	P2DO2012	P2BGPD126	P2BP1D126	P2PD2012G
P2FD20164	2000	1600	400	2	P2TD164	P2CS204	P2C208 (2)	P2DDL2016	P2DDR2016	P2DDRL2016	P2DO2016	P2BGPD164	P2BP1D164	P2PD2016G
P2FD20166	2000	1600	600	2	P2TD166	P2CS206	P2C208 (2)	P2DDL2016	P2DDR2016	P2DDRL2016	P2DO2016	P2BGPD166	P2BP1D166	P2PD2016G
P2FD20184	2000	1800	400	2	P2TD184	P2CS204	P2C209 (2)	P2DDL2018	P2DDR2018	P2DDRL2018	P2DO2018	P2BGPD184	P2BP1D184	P2PD2018G
P2FD20186	2000	1800	600	2	P2TD186	P2CS206	P2C209 (2)	P2DDL2018	P2DDR2018	P2DDRL2018	P2DO2018	P2BGPD186	P2BP1D186	P2PD2018G

Frame	A	B	C	No. of Doors	Solid Disconnect Top	Solid Side Cover	Solid Rear Cover	Solid Disconnect Door (Left Mullion, Standard Cut-out)	Solid Disconnect Door (Right Mullion, Standard Cut-out)	Solid Disconnect Door (Right Mullion, Large Cut-out)	Solid Rear Door	Disconnect Gland Plate	Disconnect Plinth Base, 100mm	Disconnect Mounting Subpanel
P2F2285	2200	800	500	1	P2T85	P2CS225	P2C228	P2DDL228	P2DDR228	P2DDRL228	P2D228	P2BGP85G	P2BP185	P2P228G
P2F2286	2200	800	600	1	P2T86	P2CS226	P2C228	P2DDL228	P2DDR228	P2DDRL228	P2D228	P2BGP86G	P2BP186	P2P228G
P2F2288	2200	800	800	1	P2T88	P2CS228	P2C228	P2DDL228	P2DDR228	P2DDRL228	P2D228	P2BGP88G	P2BP188	P2P228G
P2F22810	2200	800	1000	1	P2T810	P2CS2210	P2C228	P2DDL228	P2DDR228	P2DDRL228	P2D228	P2BGP810G	P2BP1810	P2P228G
P2F22105	2200	1000	500	1	P2T105	P2CS225	P2C2210	P2DDL2210	P2DDR2210	P2DDRL2210	P2D2210	P2BGP105G	P2BP1105	P2P2210G
P2F22106	2200	1000	600	1	P2T106	P2CS226	P2C2210	P2DDL2210	P2DDR2210	P2DDRL2210	P2D2210	P2BGP106G	P2BP1106	P2P2210G
P2F22108	2200	1000	800	1	P2T108	P2CS228	P2C2210	P2DDL2210	P2DDR2210	P2DDRL2210	P2D2210	P2BGP108G	P2BP1108	P2P2210G
P2FD22124	2200	1200	400	2	P2TD124	P2CS224	P2C2212	P2DDL2212	P2DDR2212	P2DDRL2212	P2DO2212	P2BGPD124	P2BP1D124	P2PD2212G
P2FD22126	2200	1200	600	2	P2TD126	P2CS226	P2C2212	P2DDL2212	P2DDR2212	P2DDRL2212	P2DO2212	P2BGPD126	P2BP1D126	P2PD2212G
P2FD22164	2200	1600	400	2	P2TD164	P2CS224	P2C228 (2)	P2DDL2216	P2DDR2216	P2DDRL2216	P2DO2216	P2BGPD164	P2BP1D164	P2PD2216G
P2FD22166	2200	1600	600	2	P2TD166	P2CS226	P2C228 (2)	P2DDL2216	P2DDR2216	P2DDRL2216	P2DO2216	P2BGPD166	P2BP1D166	P2PD2216G
P2FD22184	2200	1800	400	2	P2TD184	P2CS224	P2C229 (2)	P2DDL2218	P2DDR2218	P2DDRL2218	P2DO2218	P2BGPD184	P2BP1D184	P2PD2218G
P2FD22186	2200	1800	600	2	P2TD186	P2CS226	P2C229 (2)	P2DDL2218	P2DDR2218	P2DDRL2218	P2DO2218	P2BGPD186	P2BP1D186	P2PD2218G

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DISCONNECT PACKAGES, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997

NEMA/EEMAC Type 12
CSA File Number 42186; Type 12
VDE IP55
IEC 60529, IP55

APPLICATION

PROLINE G2 Disconnect Packages are full-featured, ready-to-use enclosures which make it easy to create flange-mount disconnect solutions using major brand disconnect switches and circuit breakers. A hinged disconnect mullion provides unobstructed access to the interior and maximum access to the Full Mounting Subpanel (Mounting Plate). A flush swing handle with defeater operates an internal 3-point latch system on the disconnect door and latches to the disconnect mullion. Interlocking is provided from the primary door to the disconnect mullion. Side covers are included with PROLINE G2 Disconnect Packages.

FEATURES

- Hinged mullion with standard cutout (for flange-mount disconnect)
- Interlock from master door to mullion
- Left and right disconnect standard options
- Side covers included in package

SPECIFICATIONS

Disconnect Frame

- Disconnect Frames greater than 1000 mm tall include two removable center uprights (front and rear) which are offset 100 mm from the center of the frame
- 12 gauge (2.5 mm) roll formed steel frame, fully welded corners, hybrid profile
- Accommodate the 25-mm DIN standard and include rectangular and round holes

Disconnect Doors

- Includes a hinged mullion with a standard cutout which accommodates a wide variety of flange-mount disconnect devices
- Mullion is opened via two quarter-turn cams
- Right-hand disconnects have the mullion on the right; left-hand disconnects have the mullion on the left
- Doors swing to the left for right-hand disconnects; doors swing to the right for left-hand disconnects
- Two-door disconnect packages (if used) have a center mullion, and both doors swing in the same direction (not overlapping)
- A low-profile flush swing handle with key lock (other options available) operates an internal 3-point latch system on the door
- Door bar system on all doors (not on disconnect mullion)

Mechanical Interlock

- Integrated interlock system from the doors to the disconnect mullion
- Interlock must be defeated to unlock either door
- The primary door must be in the open position to open the secondary door
- The primary door must be in the open position to open the mullion

Gasket

- Seamless polyurethane gasket provides a watertight, dust-tight seal against moisture and contaminants
- UL component recognized, CSA compliant
- Sealed mounting for all external accessories

Mounting subpanel

- Includes EZ-Load Glide Blocks, which accommodate five loading options: vertical front, vertical side, vertical rear, horizontal front (frame over subpanel), horizontal rear (subpanel lowered into frame)
- Subpanel is securely fastened to the top and bottom of the frame. Enclosures less than 1200 mm wide use 4 sets of EZ-Load Glide Blocks. Enclosures 1200 mm wide or greater use 8 sets of glide blocks for a well secured subpanel.
- Depth adjustable, accommodates back-to-back subpanels
- Galvanized full subpanel default; painted subpanel available

System

- Can be bayed to a PROLINE G2 Industrial Package, however a PROLINE G2 Barrier Panel (not included) must be used between the Disconnect Package and the Industrial Package to maintain disconnect integrity
- The disconnect mullion and disconnect door include 140-degree hinges and are gasketed to maintain enclosure integrity.
- Standard right- or left-hand provision will accept the following types of flange-mounted disconnect devices:
  - Allen-Bradley (Bulletin 1494V - disconnect switches with flange-mounted, variable-depth operating mechanisms and Bulletin 1494V flange-mounted variable-depth operating mechanisms for circuit breakers
  - ABB Controls (Disconnect switches up to 200 amp and operators for ABB circuit breakers up to 800 amp)
  - Eaton Cutler-Hammer (Variable-depth disconnect switches up to 200 amp, operators for circuit breakers up to 600 amp, and FLEX SHAFT® handle mechanisms for circuit breakers)
  - General Electric (Type TDA variable-depth mechanisms for disconnect switches up to 200 amp, and operator mechanisms or SPECTRA FLEX® cable operator for circuit breakers up to 600 amp)
  - Siemens ITE (MAX-FLEX flange-mounted, variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches)
  - Schneider Square D (Class 9422 disconnect switches up to 200 amp with variable-depth or cable mechanisms for 30, 60 or 100 amp, and circuit breakers with variable-depth operators or cable mechanisms up to 400 amp)

Note: There are PROLINE G2 Disconnect Door options with a larger cutout for use with higher amp disconnect switches.

FINISH

- Frame, Doors, Tops, Covers - polyester powder paint; RAL 7035 textured light gray standard; custom colors available
- Mounting Subpanel - galvanized steel
- Gland Plate - galvanized steel

ACCESSORIES

Disconnect Doors, page 488
Barrier Panel, page 502
Barrier Panel, page 502
Grid Strap Network (Rail System), page 551
Partial Subpanel and Side-Mount Panel, page 544
Frame Joining Kits, page 527
Flush Swing Handles, page 496
PROLINE Grounding Kit, page 550

BULLETIN: P41

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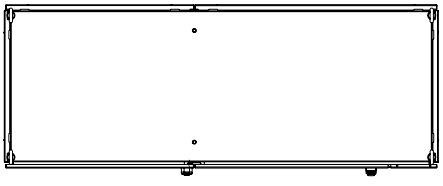
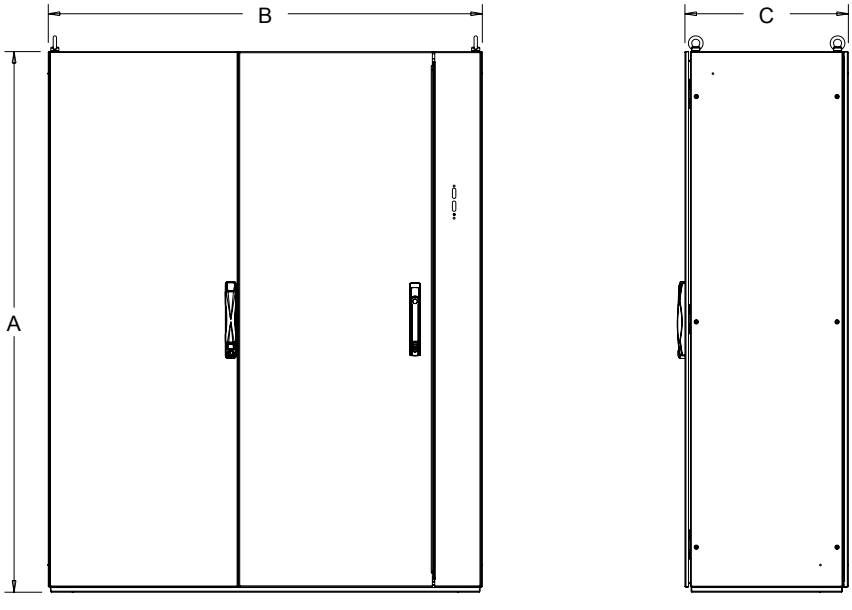
Standard Product

Catalog Number	AxBxC mm	AxBxC in.	H (mm)	H (in.)	W (mm)	W (in.)	D (mm)	D (in.)	Maximum Subpanel HxW (mm)	Maximum Subpanel HxW (in.)	No. of Doors	Max. Rack Mount Units	Type
P2KDL1684	1602 x 808 x 405	63.07 x 31.80 x 15.94	1600	63.0	800	31.5	400	15.7	1506x728	59.3x28.7	1	33	Left Mullion
P2KDR1684	1602 x 808 x 405	63.07 x 31.80 x 15.94	1600	63.0	800	31.5	400	15.7	1506x728	59.3x28.7	1	33	Right Mullion
P2KDL1685	1602 x 808 x 505	63.07 x 31.81 x 19.88	1600	63.0	800	31.5	500	19.7	1506x728	59.3x28.7	1	33	Left Mullion
P2KDR1685	1602 x 808 x 505	63.07 x 31.81 x 19.88	1600	63.0	800	31.5	500	19.7	1506x728	59.3x28.7	1	33	Right Mullion
P2KDL1686	1602 x 808 x 605	63.07 x 31.80 x 23.82	1600	63.0	800	31.5	600	23.6	1506x728	59.3x28.7	1	33	Left Mullion
P2KDR1686	1602 x 808 x 605	63.07 x 31.80 x 23.82	1600	63.0	800	31.5	600	23.6	1506x728	59.3x28.7	1	33	Right Mullion
P2KDL16104	1602 x 1008 x 405	63.07 x 39.67 x 15.94	1600	63.0	1000	39.4	400	15.7	1506x928	59.3x36.5	2	33	Left Mullion
P2KDR16104	1602 x 1008 x 405	63.07 x 39.67 x 15.94	1600	63.0	1000	39.4	400	15.7	1506x928	59.3x36.5	2	33	Right Mullion
P2KDL16106	1602 x 1008 x 605	63.07 x 39.67 x 23.82	1600	63.0	1000	39.4	600	23.6	1506x928	59.3x36.5	2	33	Left Mullion
P2KDR16106	1602 x 1008 x 605	63.07 x 39.67 x 23.82	1600	63.0	1000	39.4	600	23.6	1506x928	59.3x36.5	2	33	Right Mullion
P2KDL16124	1602 x 1208 x 405	63.07 x 47.54 x 15.94	1600	63.0	1200	47.2	400	15.7	1506x1128	59.3x44.4	2	33	Left Mullion
P2KDR16124	1602 x 1208 x 405	63.07 x 47.54 x 15.94	1600	63.0	1200	47.2	400	15.7	1506x1128	59.3x44.4	2	33	Right Mullion
P2KDL16125	1602 x 1208 x 505	63.07 x 47.56 x 19.88	1600	63.0	1200	47.2	500	19.7	1506x1128	59.3x44.4	2	33	Left Mullion
P2KDR16125	1602 x 1208 x 505	63.07 x 47.56 x 19.88	1600	63.0	1200	47.2	500	19.7	1506x1128	59.3x44.4	2	33	Right Mullion
P2KDL16126	1602 x 1208 x 605	63.07 x 47.54 x 23.82	1600	63.0	1200	47.2	600	23.6	1506x1128	59.3x44.4	2	33	Left Mullion
P2KDR16126	1602 x 1208 x 605	63.07 x 47.54 x 23.82	1600	63.0	1200	47.2	600	23.6	1506x1128	59.3x44.4	2	33	Right Mullion
P2KDL16164	1602 x 1608 x 405	63.07 x 63.29 x 15.94	1600	63.0	1600	63.0	400	15.7	1506x1528	59.3x60.2	2	33	Left Mullion
P2KDR16164	1602 x 1608 x 405	63.07 x 63.29 x 15.94	1600	63.0	1600	63.0	400	15.7	1506x1528	59.3x60.2	2	33	Right Mullion
P2KDL16165	1602 x 1608 x 505	63.07 x 63.31 x 19.88	1600	63.0	1600	63.0	500	19.7	1506x1528	59.3x60.2	2	33	Left Mullion
P2KDR16165	1602 x 1608 x 505	63.07 x 63.31 x 19.88	1600	63.0	1600	63.0	500	19.7	1506x1528	59.3x60.2	2	33	Right Mullion
P2KDL16166	1602 x 1608 x 605	63.07 x 63.29 x 23.82	1600	63.0	1600	63.0	600	23.6	1506x1528	59.3x60.2	2	33	Left Mullion
P2KDR16166	1602 x 1608 x 605	63.07 x 63.29 x 23.82	1600	63.0	1600	63.0	600	23.6	1506x1528	59.3x60.2	2	33	Right Mullion
P2KDL1885	1802 x 808 x 505	70.94 x 31.80 x 19.88	1800	70.9	800	31.5	500	19.7	1706x728	67.2x28.7	1	38	Left Mullion
P2KDR1885	1802 x 808 x 505	70.94 x 31.80 x 19.88	1800	70.9	800	31.5	500	19.7	1706x728	67.2x28.7	1	38	Right Mullion
P2KDL1886	1802 x 808 x 605	70.94 x 31.80 x 23.82	1800	70.9	800	31.5	600	23.6	1706x728	67.2x28.7	1	38	Left Mullion
P2KDR1886	1802 x 808 x 605	70.94 x 31.80 x 23.82	1800	70.9	800	31.5	600	23.6	1706x728	67.2x28.7	1	38	Right Mullion
P2KDL18105	1802 x 1008 x 505	70.94 x 39.67 x 19.88	1800	70.9	1000	39.4	500	19.7	1706x928	67.2x36.5	1	38	Left Mullion
P2KDR18105	1802 x 1008 x 505	70.94 x 39.67 x 19.88	1800	70.9	1000	39.4	500	19.7	1706x928	67.2x36.5	1	38	Right Mullion
P2KDL18106	1802 x 1008 x 605	70.94 x 39.67 x 23.82	1800	70.9	1000	39.4	600	23.6	1706x928	67.2x36.5	1	38	Left Mullion
P2KDR18106	1802 x 1008 x 605	70.94 x 39.67 x 23.82	1800	70.9	1000	39.4	600	23.6	1706x928	67.2x36.5	1	38	Right Mullion
P2KDL18124	1802 x 1208 x 405	70.94 x 47.54 x 15.94	1800	70.9	1200	47.2	400	15.7	1706x1128	67.2x44.4	2	38	Left Mullion
P2KDR18124	1802 x 1208 x 405	70.94 x 47.54 x 15.94	1800	70.9	1200	47.2	400	15.7	1706x1128	67.2x44.4	2	38	Right Mullion
P2KDL18125	1802 x 1208 x 505	70.94 x 47.56 x 19.88	1800	70.9	1200	47.2	500	19.7	1706x1128	67.2x44.4	2	38	Left Mullion
P2KDR18125	1802 x 1208 x 505	70.94 x 47.56 x 19.88	1800	70.9	1200	47.2	500	19.7	1706x1128	67.2x44.4	2	38	Right Mullion
P2KDL18126	1802 x 1208 x 605	70.94 x 47.54 x 23.82	1800	70.9	1200	47.2	600	23.6	1706x1128	67.2x44.4	2	38	Left Mullion
P2KDR18126	1802 x 1208 x 605	70.94 x 47.54 x 23.82	1800	70.9	1200	47.2	600	23.6	1706x1128	67.2x44.4	2	38	Right Mullion
P2KDL18164	1802 x 1608 x 405	70.94 x 63.29 x 15.94	1800	70.9	1600	63.0	400	15.7	1706x1528	67.2x60.2	2	38	Left Mullion
P2KDR18164	1802 x 1608 x 405	70.94 x 63.29 x 15.94	1800	70.9	1600	63.0	400	15.7	1706x1528	67.2x60.2	2	38	Right Mullion
P2KDL18165	1802 x 1608 x 505	70.94 x 63.31 x 19.88	1800	70.9	1600	63.0	500	19.7	1706x1528	67.2x60.2	2	38	Left Mullion
P2KDR18165	1802 x 1608 x 505	70.94 x 63.31 x 19.88	1800	70.9	1600	63.0	500	19.7	1706x1528	67.2x60.2	2	38	Right Mullion
P2KDL18166	1802 x 1608 x 605	70.94 x 63.29 x 23.82	1800	70.9	1600	63.0	600	23.6	1706x1528	67.2x60.2	2	38	Left Mullion
P2KDR18166	1802 x 1608 x 605	70.94 x 63.29 x 23.82	1800	70.9	1600	63.0	600	23.6	1706x1528	67.2x60.2	2	38	Right Mullion
P2KDL18184	1802 x 1808 x 405	70.94 x 71.17 x 15.94	1800	70.9	1800	70.9	400	15.7	1706x1728	67.2x68	2	38	Left Mullion
P2KDR18184	1802 x 1808 x 405	70.94 x 71.17 x 15.94	1800	70.9	1800	70.9	400	15.7	1706x1728	67.2x68	2	38	Right Mullion
P2KDL18185	1802 x 1808 x 505	70.94 x 71.18 x 19.88	1800	70.9	1800	70.9	500	19.7	1706x1728	67.2x68	2	38	Left Mullion
P2KDR18185	1802 x 1808 x 505	70.94 x 71.18 x 19.88	1800	70.9	1800	70.9	500	19.7	1706x1728	67.2x68	2	38	Right Mullion
P2KDL18186	1802 x 1808 x 605	70.94 x 71.17 x 23.82	1800	70.9	1800	70.9	600	23.6	1706x1728	67.2x68	2	38	Left Mullion
P2KDR18186	1802 x 1808 x 605	70.94 x 71.17 x 23.82	1800	70.9	1800	70.9	600	23.6	1706x1728	67.2x68	2	38	Right Mullion
P2KDL2085	2002 x 808 x 505	78.82 x 31.80 x 19.88	2000	78.7	800	31.5	500	19.7	1906x728	75x28.7	1	42	Left Mullion
P2KDR2085	2002 x 808 x 505	78.82 x 31.80 x 19.88	2000	78.7	800	31.5	500	19.7	1906x728	75x28.7	1	42	Right Mullion
P2KDL2086	2002 x 808 x 605	78.82 x 31.80 x 23.82	2000	78.7	800	31.5	600	23.6	1906x728	75x28.7	1	42	Left Mullion
P2KDR2086	2002 x 808 x 605	78.82 x 31.80 x 23.82	2000	78.7	800	31.5	600	23.6	1906x728	75x28.7	1	42	Right Mullion
P2KDL2088	2002 x 808 x 805	78.80 x 31.80 x 31.70	2000	78.7	800	31.5	800	31.5	1906x728	75x28.7	1	42	Left Mullion
P2KDR2088	2002 x 808 x 805	78.80 x 31.80 x 31.70	2000	78.7	800	31.5	800	31.5	1906x728	75x28.7	1	42	Right Mullion
P2KDL20105	2002 x 1008 x 505	78.82 x 39.67 x 19.88	2000	78.7	1000	39.4	500	19.7	1906x928	75x36.5	1	42	Left Mullion
P2KDR20105	2002 x 1008 x 505	78.82 x 39.67 x 19.88	2000	78.7	1000	39.4	500	19.7	1906x928	75x36.5	1	42	Right Mullion
P2KDL20106	2002 x 1008 x 605	78.82 x 39.67 x 23.82	2000	78.7	1000	39.4	600	23.6	1906x928	75x36.5	1	42	Left Mullion
P2KDR20106	2002 x 1008 x 605	78.82 x 39.67 x 23.82	2000	78.7	1000	39.4	600	23.6	1906x928	75x36.5	1	42	Right Mullion
P2KDL20124	2002 x 1208 x 405	78.82 x 47.54 x 15.94	2000	78.7	1200	47.2	400	15.7	1906x1128	75x44.4	2	42	Left Mullion
P2KDR20124	2002 x 1208 x 405	78.82 x 47.54 x 15.94	2000	78.7	1200	47.2	400	15.7	1906x1128	75x44.4	2	42	Right Mullion
P2KDL20125	2002 x 1208 x 505	78.82 x 47.56 x 19.88	2000	78.7	1200	47.2	500	19.7	1906x1128	75x44.4	2	42	Left Mullion
P2KDR20125	2002 x 1208 x 505	78.82 x 47.56 x 19.88	2000	78.7	1200	47.2	500	19.7	1906x1128	75x44.4	2	42	Right Mullion
P2KDL20126	2002 x 1208 x 605	78.82 x 47.54 x 23.82	2000	78.7	1200	47.2	600	23.6	1906x1128	75x44.4	2	42	Left Mullion
P2KDR20126	2002 x 1208 x 605	78.82 x 47.54 x 23.82	2000	78.7	1200	47.2	600	23.6	1906x1128	75x44.4	2	42	Right Mullion
P2KDL20164	2002 x 1608 x 405	78.82 x 63.29 x 15.94	2000	78.7	1600	63.0	400	15.7	1906x1528	75x60.2	2	42	Left Mullion
P2KDR20164	2002 x 1608 x 405	78.82 x 63.29 x 15.94	2000	78.7	1600	63.0	400	15.7	1906x1528	75x60.2	2	42	Right Mullion
P2KDL20165	2002 x 1608 x 505	78.82 x 63.31 x 19.88	2000	78.7	1600	63.0	500	19.7	1906x1528	75x60.2	2	42	Left Mullion
P2KDR20165	2002 x 1608 x 505	78.82 x 63.31 x 19.88	2000	78.7	1600	63.0	500	19.7	1906x1528	75x60.2	2	42	Right Mullion
P2KDL20166	2002 x 1608 x 605	78.82 x 63.29 x 23.82	2000	78.7	1600	63.0	600	23.6	1906x1528	75x60.2	2	42	Left Mullion
P2KDR20166	2002 x 1608 x 605	78.82 x 63.29 x 23.82	2000	78.7	1600	63.0	600	23.6	1906x1528	75x60.2	2	42	Right Mullion
P2KDL20184	2002 x 1808 x 405	78.82 x 71.17 x 15.94	2000	78.7	1800	70.9	400	15.7	1906x1728	75x68	2	42	Left Mullion
P2KDR20184	2002 x 1808 x 405	78.82 x 71.17 x 15.94	2000	78.7	1800	70.9	400	15.7	1906x1728	75x68	2	42	Right Mullion
P2KDL20185	2002 x 1808 x 505	78.82 x 71.18 x 19.88	2000	78.7	1800	70.9	500	19.7	1906x1728	75x68	2	42	Left Mullion
P2KDR20185	2002 x 1808 x 505	78.82 x 71.18 x 19.88	2000	78.7	1800	70.9	500	19.7	1906x1728	75x68	2	42	Right Mullion
P2KDL20186	2002 x 1808 x 605	78.82 x 71.17 x 23.82	2000	78.7	1800	70.9	600	23.6	1906x1728	75x68	2	42	Left Mullion
P2KDR20186	2002 x 1808 x 605	78.82 x 71.17 x 23.82	2000	78.7	1800	70.9	600	23.6	1906x1728	75x68	2	42	Right Mullion
P2KDL2285	2202 x 808 x 505	86.69 x 31.80 x 19.88	2200	86.6	800	31.5	500	19.7	2106x728	82.9x28.7	1	47	Left Mullion

Catalog Number	AxBxC mm	AxBxC in.	H (mm)	H (in.)	W (mm)	W (in.)	D (mm)	D (in.)	Maximum Subpanel HxW (mm)	Maximum Subpanel HxW (in.)	No. of Doors	Max. Rack Mount Units	Type
P2KDR2285	2202 x 808 x 505	86.69 x 31.80 x 19.88	2200	86.6	800	31.5	500	19.7	2106x728	82.9x28.7	1	47	Right Mullion
P2KDL2286	2202 x 808 x 605	86.69 x 31.80 x 23.82	2200	86.6	800	31.5	600	23.6	2106x728	82.9x28.7	1	47	Left Mullion
P2KDR2286	2202 x 808 x 605	86.69 x 31.80 x 23.82	2200	86.6	800	31.5	600	23.6	2106x728	82.9x28.7	1	47	Right Mullion
P2KDL22105	2202 x 1008 x 505	86.69 x 39.67 x 19.88	2200	86.6	1000	39.4	500	19.7	2106x928	82.9x36.5	1	47	Left Mullion
P2KDR22105	2202 x 1008 x 505	86.69 x 39.67 x 19.88	2200	86.6	1000	39.4	500	19.7	2106x928	82.9x36.5	1	47	Right Mullion
P2KDL22106	2202 x 1008 x 605	86.69 x 39.67 x 23.82	2200	86.6	1000	39.4	600	23.6	2106x928	82.9x36.5	1	47	Left Mullion
P2KDR22106	2202 x 1008 x 605	86.69 x 39.67 x 23.82	2200	86.6	1000	39.4	600	23.6	2106x928	82.9x36.5	1	47	Right Mullion
P2KDL22124	2202 x 1208 x 405	86.69 x 47.54 x 15.94	2200	86.6	1200	47.2	400	15.7	2106x1128	82.9x44.4	2	47	Left Mullion
P2KDR22124	2202 x 1208 x 405	86.69 x 47.54 x 15.94	2200	86.6	1200	47.2	400	15.7	2106x1128	82.9x44.4	2	47	Right Mullion
P2KDL22125	2202 x 1208 x 505	86.69 x 47.56 x 19.88	2200	86.6	1200	47.2	500	19.7	2106x1128	82.9x44.4	2	47	Left Mullion
P2KDR22125	2202 x 1208 x 505	86.69 x 47.56 x 19.88	2200	86.6	1200	47.2	500	19.7	2106x1128	82.9x44.4	2	47	Right Mullion
P2KDL22126	2202 x 1208 x 605	86.69 x 47.54 x 23.82	2200	86.6	1200	47.2	600	23.6	2106x1128	82.9x44.4	2	47	Left Mullion
P2KDR22126	2202 x 1208 x 605	86.69 x 47.54 x 23.82	2200	86.6	1200	47.2	600	23.6	2106x1128	82.9x44.4	2	47	Right Mullion
P2KDL22164	2202 x 1608 x 405	86.69 x 63.29 x 15.94	2200	86.6	1600	63.0	400	15.7	2106x1528	82.9x60.2	2	47	Left Mullion
P2KDR22164	2202 x 1608 x 405	86.69 x 63.29 x 15.94	2200	86.6	1600	63.0	400	15.7	2106x1528	82.9x60.2	2	47	Right Mullion
P2KDL22165	2202 x 1608 x 505	86.69 x 63.31 x 19.88	2200	86.6	1600	63.0	500	19.7	2106x1528	82.9x60.2	2	47	Left Mullion
P2KDR22165	2202 x 1608 x 505	86.69 x 63.31 x 19.88	2200	86.6	1600	63.0	500	19.7	2106x1528	82.9x60.2	2	47	Right Mullion
P2KDL22166	2202 x 1608 x 605	86.69 x 63.29 x 23.82	2200	86.6	1600	63.0	600	23.6	2106x1528	82.9x60.2	2	47	Left Mullion
P2KDR22166	2202 x 1608 x 605	86.69 x 63.29 x 23.82	2200	86.6	1600	63.0	600	23.6	2106x1528	82.9x60.2	2	47	Right Mullion
P2KDL22184	2202 x 1808 x 405	86.69 x 71.17 x 15.94	2200	86.6	1800	70.9	400	15.7	2106x1728	82.9x68	2	47	Left Mullion
P2KDR22184	2202 x 1808 x 405	86.69 x 71.17 x 15.94	2200	86.6	1800	70.9	400	15.7	2106x1728	82.9x68	2	47	Right Mullion
P2KDL22185	2202 x 1808 x 505	86.69 x 71.18 x 19.88	2200	86.6	1800	70.9	500	19.7	2106x1728	82.9x68	2	47	Left Mullion
P2KDR22185	2202 x 1808 x 505	86.69 x 71.18 x 19.88	2200	86.6	1800	70.9	500	19.7	2106x1728	82.9x68	2	47	Right Mullion
P2KDL22186	2202 x 1808 x 605	86.69 x 71.17 x 23.82	2200	86.6	1800	70.9	600	23.6	2106x1728	82.9x68	2	47	Left Mullion
P2KDR22186	2202 x 1808 x 605	86.69 x 71.17 x 23.82	2200	86.6	1800	70.9	600	23.6	2106x1728	82.9x68	2	47	Right Mullion

HxWxD dimensions are nominal.





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Model	Component	Type	Height	Width	Depth	Specialty		Catalog Number
P2	K	DR	20	8	6	Blank	=	P2KDR2086
PROLINE G2	Industrial Package/Kit	Blank = single door OD = overlapping double door DR = disconnect right DL = disconnect left	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600	mm 18 = 1800 16 = 1600 12 = 1200 10 = 1000 8 = 800	mm 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

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FRAMES

APPLICATION

The PROLINE G2 frame is the foundational design element that protects the components inside this modular enclosure. The frame was designed to withstand heavier load requirements and to maintain a solid square structure - a solid foundation for the electrical enclosure.

FEATURES

- Superior performance under load: 12 gauge (2.5 mm) roll-formed steel frame with welded corners, hybrid frame profile
- Wide range of standard options: 114 frame sizes; disconnect options, custom sizes on request
- Easy to assemble and use: 25 mm hole pattern on horizontal and vertical frame members, wide door opening, removable rear centerpost for frames greater than 1200 mm wide

SPECIFICATIONS

- Welded corners with steel corner blocks
- 12 gauge (2.5 mm), roll-formed steel frame sections
- Hybrid frame profile
- Flange trough collar on door and side openings deflect dust and debris away from the enclosure interior
- Integral frame channels support the full weight of the mounting subpanel
- Frames greater than 1200 mm wide have a removable rear centerpost, and cross-members in the center top and center bottom; no front center post facilitates component installation
- Accommodates 25-mm DIN standard; rectangular frame holes designed for BV-M6 fastener or metric cage nut fasteners; round frame holes accommodate M5 self-tapping screws and allow numerous grounding locations using M5 thread-forming screws
- Uniform internal frame width to simplify component installation; universal frame member used for both horizontal and vertical frame sections to simplify component installation
- Simple means for joining frames to create multiple-bay enclosures
- Provisions for mounting subpanel, rack mounting and grid/rail system mounting

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available
- EMC-protected frames: plated (not painted) to provide corrosion resistance while maintaining a metal-to-metal contact with the metal fiber gasket used in PROLINE G2 EMC Industrial Packages

LOAD RATING

- 3500 lb (1587kg), safety factor 1.5; frame size: 2000x600x800 mm (load ratings vary by frame size)

ACCESSORIES

Solid Doors (Single or Overlapping Double), page 482
Solid Top, page 506
Gland Plate, page 514
Side Cover, page 498
Frame Joining Kits, page 527
Grid Strap Network (Rail System), page 551
Lifting Eyes, page 511
Fastener Packages, page 470
Full Subpanel (Rear or Side), page 540
Partial Subpanel and Side-Mount Panel, page 544
Panel Support Bracket, page 550
19-Inch Rack Angles, page 554
Center Upright, page 558

BULLETIN: P40

Standard Product

Catalog Number	AxBxC mm	AxBxC in.	H x W x D (mm)	Maximum Subpanel Size (mm)	Maximum Subpanel Size (in.)	Maximum Rack Mount Units
P2F664	599 x 599 x 394	23.59 x 23.57 x 15.52	600 x 600 x 400	506x528	19.9x20.8	8
P2F666	599 x 599 x 594	23.59 x 23.57 x 23.39	600 x 600 x 600	506x528	19.9x20.8	8
P2F688	599 x 799 x 794	23.59 x 31.45 x 31.26	600 x 800 x 800	506x728	19.9x28.7	8
P2F864	799 x 599 x 394	31.46 x 23.57 x 15.52	800 x 600 x 400	706x528	27.8x20.8	13
P2F866	799 x 599 x 594	31.46 x 23.57 x 23.39	800 x 600 x 600	706x528	27.8x20.8	13
P2F888	799 x 799 x 794	31.46 x 31.45 x 31.26	800 x 800 x 800	706x728	27.8x28.7	13
P2F1064	999 x 599 x 394	39.34 x 23.57 x 15.52	1000 x 600 x 400	906x528	35.7x20.8	18
P2F1065	999 x 599 x 494	39.34 x 23.57 x 19.45	1000 x 600 x 500	906x528	35.7x20.8	18
P2F1066	999 x 599 x 594	39.34 x 23.57 x 23.39	1000 x 600 x 600	906x528	35.7x20.8	18
P2F1085	999 x 799 x 494	39.34 x 31.45 x 19.45	1000 x 800 x 500	906x728	35.7x28.7	18
P2F1086	999 x 799 x 594	39.34 x 31.45 x 23.39	1000 x 800 x 600	906x728	35.7x28.7	18
P2F1088	999 x 799 x 794	39.34 x 31.45 x 31.26	1000 x 800 x 800	906x728	35.7x28.7	18
P2F10125	999 x 1199 x 494	39.34 x 47.20 x 19.45	1000 x 1200 x 500	906x1128	35.7x44.4	18
P2F1264	1199 x 599 x 394	47.21 x 23.57 x 15.52	1200 x 600 x 400	1106x528	43.5x20.8	23
P2F1265	1199 x 599 x 494	47.21 x 23.57 x 19.45	1200 x 600 x 500	1106x528	43.5x20.8	23
P2F1266	1199 x 599 x 594	47.21 x 23.57 x 23.39	1200 x 600 x 600	1106x528	43.5x20.8	23
P2F1285	1199 x 799 x 494	47.21 x 31.45 x 19.45	1200 x 800 x 500	1106x728	43.5x28.7	23
P2F1286	1199 x 799 x 594	47.21 x 31.45 x 23.39	1200 x 800 x 600	1106x728	43.5x28.7	23
P2F1288	1199 x 799 x 794	47.21 x 31.45 x 31.26	1200 x 800 x 800	1106x728	43.5x28.7	23
P2F12125	1199 x 1199 x 494	47.21 x 47.20 x 19.45	1200 x 1200 x 500	1106x1128	43.5x44.4	23
P2F1465	1399 x 599 x 494	55.09 x 23.57 x 19.45	1400 x 600 x 500	1306x528	51.4x20.8	28
P2F1466	1399 x 599 x 594	55.09 x 23.57 x 23.39	1400 x 600 x 600	1306x528	51.4x20.8	28
P2F1485	1399 x 799 x 494	55.09 x 31.45 x 19.45	1400 x 800 x 500	1306x728	51.4x28.7	28

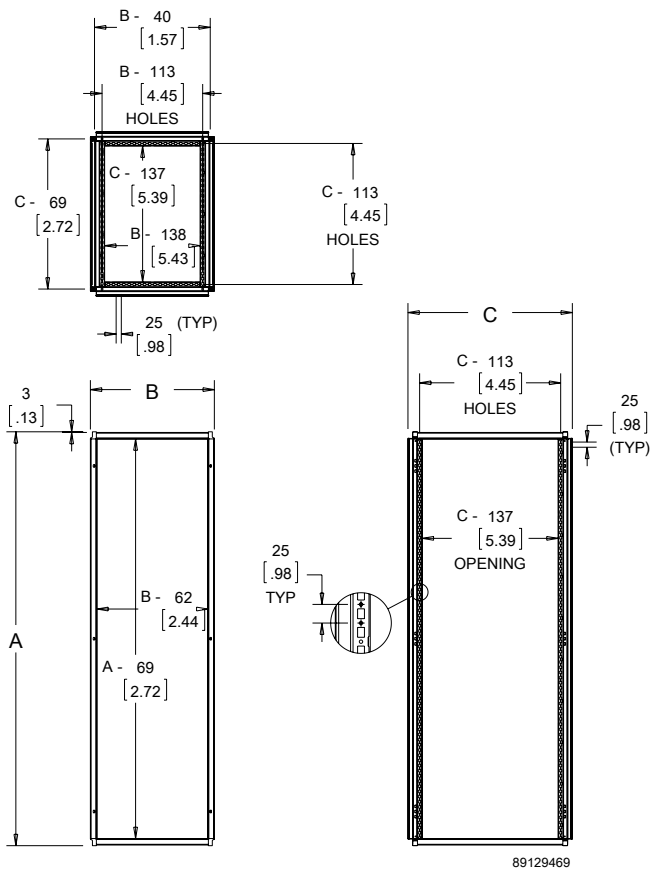
Catalog Number	AxBxC mm	AxBxC in.	H x W x D (mm)	Maximum Subpanel Size (mm)	Maximum Subpanel Size (in.)	Maximum Rack Mount Units
P2F1486	1399 x 799 x 594	55.09 x 31.45 x 23.39	1400 x 800 x 600	1306x728	51.4x28.7	28
P2F1488	1399 x 799 x 794	55.09 x 31.45 x 31.26	1400 x 800 x 800	1306x728	51.4x28.7	28
P2F14125	1399 x 1199 x 494	55.09 x 47.20 x 19.45	1400 x 1200 x 500	1306x1128	51.4x44.4	28
P2F1664	1599 x 599 x 394	62.96 x 23.57 x 15.52	1600 x 600 x 400	1506x528	59.3x20.8	33
P2F1665	1599 x 599 x 494	62.96 x 23.57 x 19.45	1600 x 600 x 500	1506x528	59.3x20.8	33
P2F1666	1599 x 599 x 594	62.96 x 23.57 x 23.39	1600 x 600 x 600	1506x528	59.3x20.8	33
P2F1668	1599 x 599 x 794	62.96 x 23.57 x 31.26	1600 x 600 x 800	1506x528	59.3x20.8	33
P2F1684	1599 x 799 x 394	62.96 x 31.45 x 15.52	1600 x 800 x 400	1506x728	59.3x28.7	33
P2F1685	1599 x 799 x 494	62.96 x 31.45 x 19.45	1600 x 800 x 500	1506x728	59.3x28.7	33
P2F1686	1599 x 799 x 594	62.96 x 31.45 x 23.39	1600 x 800 x 600	1506x728	59.3x28.7	33
P2F1688	1599 x 799 x 794	62.96 x 31.45 x 31.26	1600 x 800 x 800	1506x728	59.3x28.7	33
P2F16104	1599 x 999 x 394	62.96 x 39.32 x 15.52	1600 x 1000 x 400	1506x928	59.3x36.5	33
P2F16106	1599 x 999 x 494	62.96 x 39.32 x 19.45	1600 x 1000 x 600	1506x928	59.3x36.5	33
P2F16124	1599 x 1199 x 394	62.96 x 47.20 x 15.52	1600 x 1200 x 400	1506x1128	59.3x44.4	33
P2F16125	1599 x 1199 x 494	62.96 x 47.20 x 19.45	1600 x 1200 x 500	1506x1128	59.3x44.4	33
P2F16126	1599 x 1199 x 594	62.96 x 47.20 x 23.39	1600 x 1200 x 600	1506x1128	59.3x44.4	33
P2F16128	1599 x 1199 x 794	62.96 x 47.20 x 31.26	1600 x 1200 x 800	1506x1128	59.3x44.4	33
P2F16164	1599 x 1599 x 394	62.96 x 62.94 x 15.52	1600 x 1600 x 400	1506x1528	59.3x60.2	33
P2F16165	1599 x 1599 x 494	62.96 x 62.94 x 19.45	1600 x 1600 x 500	1506x1528	59.3x60.2	33
P2F16166	1599 x 1599 x 594	62.96 x 62.94 x 23.39	1600 x 1600 x 600	1506x1528	59.3x60.2	33
P2F16168	1599 x 1599 x 794	62.96 x 62.94 x 31.26	1600 x 1600 x 800	1506x1528	59.3x60.2	33
P2F1845	1799 x 399 x 494	70.83 x 15.70 x 19.45	1800 x 400 x 500	1706x328	67.2x12.9	38
P2F1846	1799 x 399 x 594	70.83 x 15.70 x 23.39	1800 x 400 x 600	1706x328	67.2x12.9	38
P2F1864	1799 x 599 x 394	70.83 x 23.57 x 15.52	1800 x 600 x 400	1706x528	67.2x20.8	38
P2F1865	1799 x 599 x 494	70.83 x 23.57 x 19.45	1800 x 600 x 500	1706x528	67.2x20.8	38
P2F1866	1799 x 599 x 594	70.83 x 23.57 x 23.39	1800 x 600 x 600	1706x528	67.2x20.8	38
P2F1884	1799 x 799 x 394	70.83 x 31.45 x 15.52	1800 x 800 x 400	1706x728	67.2x28.7	38
P2F1885	1799 x 799 x 494	70.83 x 31.45 x 19.45	1800 x 800 x 500	1706x728	67.2x28.7	38
P2F1886	1799 x 799 x 594	70.83 x 31.45 x 23.39	1800 x 800 x 600	1706x728	67.2x28.7	38
P2F1888	1799 x 799 x 794	70.83 x 31.45 x 31.26	1800 x 800 x 800	1706x728	67.2x28.7	38
P2F18104	1799 x 999 x 394	70.83 x 39.32 x 15.52	1800 x 1000 x 400	1706x928	67.2x36.5	38
P2F18105	1799 x 999 x 494	70.83 x 39.32 x 19.45	1800 x 1000 x 500	1706x928	67.2x36.5	38
P2F18106	1799 x 999 x 594	70.83 x 39.32 x 23.39	1800 x 1000 x 600	1706x928	67.2x36.5	38
P2F18124	1799 x 1199 x 394	70.83 x 47.20 x 15.52	1800 x 1200 x 400	1706x1128	67.2x44.4	38
P2F18125	1799 x 1199 x 494	70.83 x 47.20 x 19.45	1800 x 1200 x 500	1706x1128	67.2x44.4	38
P2F18126	1799 x 1199 x 594	70.83 x 47.20 x 23.39	1800 x 1200 x 600	1706x1128	67.2x44.4	38
P2F18128	1799 x 1199 x 794	70.83 x 47.20 x 31.26	1800 x 1200 x 800	1706x1128	67.2x44.4	38
P2F18164	1799 x 1599 x 394	70.83 x 62.94 x 15.52	1800 x 1600 x 400	1706x1528	67.2x60.2	38
P2F18165	1799 x 1599 x 494	70.83 x 62.94 x 19.45	1800 x 1600 x 500	1706x1528	67.2x60.2	38
P2F18166	1799 x 1599 x 594	70.83 x 62.94 x 23.39	1800 x 1600 x 600	1706x1528	67.2x60.2	38
P2F18168	1799 x 1599 x 794	70.83 x 62.94 x 31.26	1800 x 1600 x 800	1706x1528	67.2x60.2	38
P2F18185	1799 x 1799 x 494	70.83 x 70.82 x 19.45	1800 x 1800 x 500	1706x1728	67.2x68.0	38
P2F18186	1799 x 1799 x 594	70.83 x 70.82 x 23.39	1800 x 1800 x 600	1706x1728	67.2x68.0	38
P2F18188	1799 x 1799 x 794	70.83 x 70.82 x 31.26	1800 x 1800 x 800	1706x1728	67.2x68.0	38
P2F2045	1999 x 399 x 494	78.71 x 15.70 x 19.45	2000 x 400 x 500	1906x328	75.0x12.9	42
P2F2046	1999 x 399 x 594	78.71 x 15.70 x 23.39	2000 x 400 x 600	1906x328	75.0x12.9	42
P2F2064	1999 x 599 x 394	78.71 x 23.57 x 15.52	2000 x 600 x 400	1906x528	75.0x20.8	42
P2F2065	1999 x 599 x 494	78.71 x 23.57 x 19.45	2000 x 600 x 500	1906x528	75.0x20.8	42
P2F2066	1999 x 599 x 594	78.71 x 23.57 x 23.39	2000 x 600 x 600	1906x528	75.0x20.8	42
P2F2084	1999 x 799 x 394	78.71 x 31.45 x 15.52	2000 x 800 x 400	1906x728	75.0x28.7	42
P2F2085	1999 x 799 x 494	78.71 x 31.45 x 19.45	2000 x 800 x 500	1906x728	75.0x28.7	42
P2F2086	1999 x 799 x 594	78.71 x 31.45 x 23.39	2000 x 800 x 600	1906x728	75.0x28.7	42
P2F20810	1999 x 799 x 994	78.71 x 31.45 x 39.14	2000 x 800 x 1000	1906x728	75.0x28.7	42
P2F20104	1999 x 999 x 394	78.71 x 39.32 x 15.52	2000 x 1000 x 400	1906x928	75.0x36.5	42
P2F20105	1999 x 999 x 494	78.71 x 39.32 x 19.45	2000 x 1000 x 500	1906x928	75.0x36.5	42
P2F20106	1999 x 999 x 594	78.71 x 39.32 x 23.39	2000 x 1000 x 600	1906x928	75.0x36.5	42
P2F20108	1999 x 999 x 794	78.71 x 39.32 x 31.26	2000 x 1000 x 800	1906x928	75.0x36.5	42
P2F20124	1999 x 1199 x 394	78.71 x 47.20 x 15.52	2000 x 1200 x 400	1906x1128	75.0x44.4	42
P2F20125	1999 x 1199 x 494	78.71 x 47.20 x 19.45	2000 x 1200 x 500	1906x1128	75.0x44.4	42
P2F20126	1999 x 1199 x 594	78.71 x 47.20 x 23.39	2000 x 1200 x 600	1906x1128	75.0x44.4	42
P2F20128	1999 x 1199 x 794	78.71 x 47.20 x 31.26	2000 x 1200 x 800	1906x1128	75.0x44.4	42
P2F20165	1999 x 1599 x 494	78.71 x 62.94 x 19.45	2000 x 1600 x 500	1906x1528	75.0x60.2	42
P2F20166	1999 x 1599 x 594	78.71 x 62.94 x 23.39	2000 x 1600 x 600	1906x1528	75.0x60.2	42
P2F20168	1999 x 1599 x 794	78.71 x 62.94 x 31.26	2000 x 1600 x 800	1906x1528	75.0x60.2	42
P2F20185	1999 x 1799 x 494	78.71 x 70.82 x 19.45	2000 x 1800 x 500	1906x1728	75.0x68.0	42
P2F20186	1999 x 1799 x 594	78.71 x 70.82 x 23.39	2000 x 1800 x 600	1906x1728	75.0x68.0	42
P2F20188	1999 x 1799 x 794	78.71 x 70.82 x 31.26	2000 x 1800 x 800	1906x1728	75.0x68.0	42
P2F2265	2199 x 599 x 494	86.58 x 23.57 x 19.45	2200 x 600 x 500	2106x528	82.9x20.8	47
P2F2266	2199 x 599 x 594	86.58 x 23.57 x 23.39	2200 x 600 x 600	2106x528	82.9x20.8	47
P2F2285	2199 x 799 x 494	86.58 x 31.45 x 19.45	2200 x 800 x 500	2106x728	82.9x28.7	47
P2F2286	2199 x 799 x 594	86.58 x 31.45 x 23.39	2200 x 800 x 600	2106x728	82.9x28.7	47
P2F22810	2199 x 799 x 994	86.58 x 31.45 x 39.14	2200 x 800 x 1000	2106x728	82.9x28.7	47
P2F22105	2199 x 999 x 494	86.58 x 39.32 x 19.45	2200 x 1000 x 500	2106x928	82.9x36.5	47
P2F22106	2199 x 999 x 594	86.58 x 39.32 x 23.39	2200 x 1000 x 600	2106x928	82.9x36.5	47
P2F22108	2199 x 999 x 794	86.58 x 39.32 x 31.26	2200 x 1000 x 800	2106x928	82.9x36.5	47
P2F22125	2199 x 1199 x 494	86.58 x 47.20 x 19.45	2200 x 1200 x 500	2106x1128	82.9x44.4	47
P2F22126	2199 x 1199 x 594	86.58 x 47.20 x 23.39	2200 x 1200 x 600	2106x1128	82.9x44.4	47
P2F22128	2199 x 1199 x 794	86.58 x 47.20 x 31.26	2200 x 1200 x 800	2106x1128	82.9x44.4	47

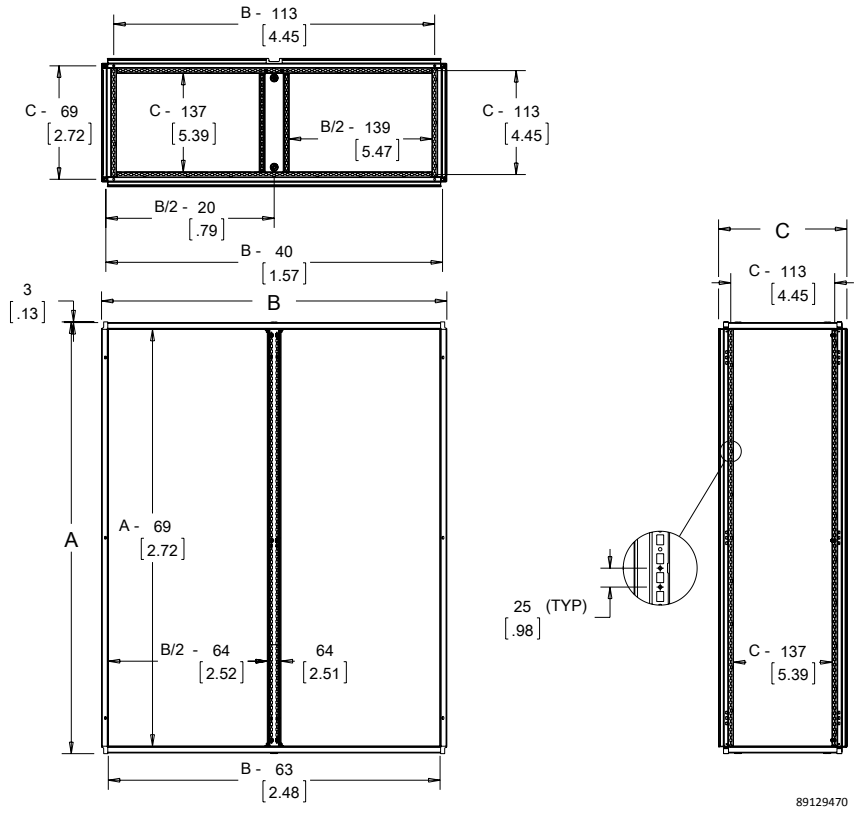
Catalog Number	AxBxC mm	AxBxC in.	H x W x D (mm)	Maximum Subpanel Size (mm)	Maximum Subpanel Size (in.)	Maximum Rack Mount Units
P2F22165	2199 x 1599 x 494	86.58 x 62.94 x 19.45	2200 x 1600 x 500	2106x1528	82.9x60.2	47
P2F22166	2199 x 1599 x 594	86.58 x 62.94 x 23.39	2200 x 1600 x 600	2106x1528	82.9x60.2	47
P2F22168	2199 x 1599 x 794	86.58 x 62.94 x 31.26	2200 x 1600 x 800	2106x1528	82.9x60.2	47
P2F22185	2199 x 1799 x 494	86.58 x 70.82 x 19.45	2200 x 1800 x 500	2106x1728	82.9x68.0	47
P2F22186	2199 x 1799 x 594	86.58 x 70.82 x 23.39	2200 x 1800 x 600	2106x1728	82.9x68.0	47
P2F22188	2199 x 1799 x 794	86.58 x 70.82 x 31.26	2200 x 1800 x 800	2106x1728	82.9x68.0	47

HxWxD are nominial height, width and depth dimensions.

Model	Component	Type	Height	Width	Depth	Specialty		Catalog Number
P2	F	Blank	20	8	6	Blank	=	P2F2086
PROLINE G2	Frame	Blank = standard D = disconnect	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.





Frame Size Matrix

Nominal Height (mm)	Nominal Width (mm)	Nominal Depth (mm)*
600	600, 800	400, 600, 800
800	600, 800	400, 600, 800
1000	600, 800, 1200	400, 500, 600, 800
1200	600, 800, 1200	400, 500, 600, 800
1400	600, 800, 1200	500, 600, 800
1600	600, 800, 1200	500, 600, 800
1800	600, 800, 1200, 1600	400, 500, 600, 800
2000	400, 600, 800, 1000, 1200, 1600, 1800	400, 500, 600, 800, 1000
2200	400, 600, 800, 1000, 1200, 1600, 1800	400, 500, 600, 800, 1000

* Not every depth is available for each width

Custom sizes available upon request

Door Selection Matrix

Nominal Width (mm)	1 Door*	2 Door**
600	•	
800	•	•
1000	•	•
1200 or greater		•

* Reversible hinging

** Overlapping double door; reversible hinging

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DISCONNECT FRAMES

APPLICATION

PROLINE G2 Disconnect Frames can be used with PROLINE G2 Disconnect Doors and Disconnect components to configure a custom Disconnect Enclosure Solution from standard modular enclosure components.

FEATURES

- Required for disconnect enclosure greater than 1000 mm wide
- Includes two removable center uprights (front and rear) which are offset 100 mm from the center of the frame
- Superior performance under load: 12 gauge (2.5 mm) roll-formed steel frame

SPECIFICATIONS

- Welded corners with steel corner blocks
- 12 gauge, roll-formed steel frame sections
- Hybrid frame profile
- Flange trough collar on door and side openings deflect dust and debris away from the enclosure interior
- Integral frame channels support the full weight of the mounting subpanel
- Accommodates 25-mm DIN standard; rectangular frame holes designed for BV-M6 fastener or metric cage nut fasteners; round frame holes accommodate M5 self-tapping screws and allow numerous grounding locations using M5 thread-forming screws

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

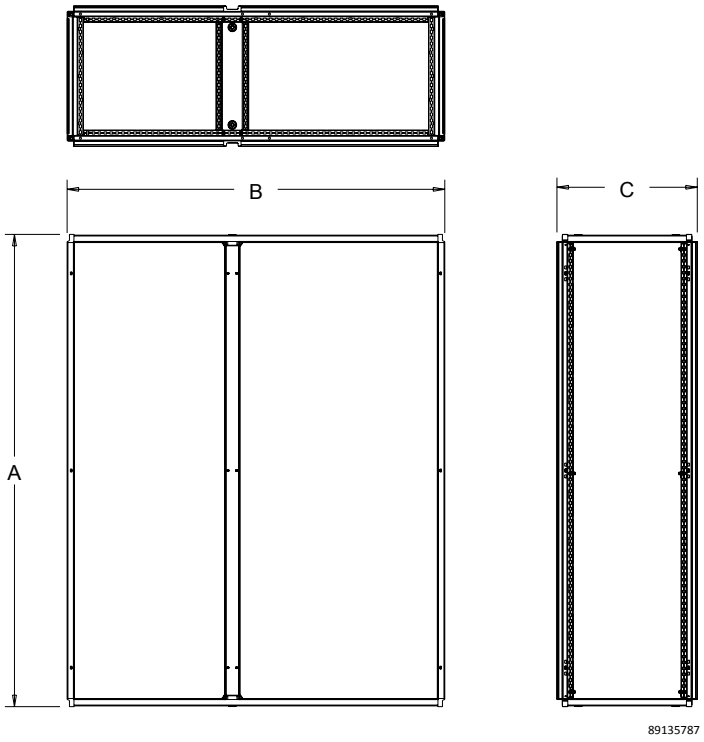
Disconnect Doors, page 488
Disconnect Components, page 529
Barrier Panel, page 502
Side Cover, page 498
Lifting Eyes, page 511
Frame Joining Kits, page 527
Fastener Packages, page 470
Full Subpanel (Rear or Side), page 540
Partial Subpanel and Side-Mount Panel, page 544
Panel Support Bracket, page 550
Grid Strap Network (Rail System), page 551

BULLETIN: P40

Standard Product

Catalog Number	AxBxC mm	AxBxC in.	HxWxD (mm)	Maximum Subpanel Size (mm)	Maximum Subpanel Size (in.)	Maximum Rack Mount Units
P2FD16124	1599 x 1199 x 394	62.95 x 47.20 x 15.51	1600x1200x400	1506x1128	59.3x44.4	33
P2FD16126	1599 x 1199 x 594	62.95 x 47.20 x 23.39	1600x1200x600	1506x1128	59.3x44.4	33
P2FD16164	1599 x 1599 x 394	62.95 x 62.95 x 15.51	1600x1600x400	1506x1528	59.3x60.2	33
P2FD16166	1599 x 1599 x 594	62.95 x 62.95 x 23.39	1600x1600x600	1506x1528	59.3x60.2	33
P2FD18124	1799 x 1199 x 394	70.83 x 47.20 x 15.51	1800x1200x400	1706x1128	67.2x44.4	38
P2FD18126	1799 x 1199 x 594	70.83 x 47.20 x 23.39	1800x1200x600	1706x1128	67.2x44.4	38
P2FD18164	1799 x 1599 x 394	70.83 x 62.95 x 15.51	1800x1600x400	1706x1528	67.2x60.2	38
P2FD18166	1799 x 1599 x 594	70.83 x 62.95 x 23.39	1800x1600x600	1706x1528	67.2x60.2	38
P2FD18184	1799 x 1799 x 394	70.83 x 70.83 x 15.51	1800x1800x400	1706x1728	67.2x68.0	38
P2FD18186	1799 x 1799 x 594	70.83 x 70.83 x 23.39	1800x1800x600	1706x1728	67.2x68.0	38
P2FD20124	1999 x 1199 x 394	78.70 x 47.20 x 15.51	2000x1200x400	1906x1128	75.0x44.4	42
P2FD20126	1999 x 1199 x 594	78.70 x 47.20 x 23.39	2000x1200x600	1906x1128	75.0x44.4	42
P2FD20164	1999 x 1599 x 394	78.70 x 62.95 x 15.51	2000x1600x400	1906x1528	75.0x60.2	42
P2FD20166	1999 x 1599 x 594	78.70 x 62.95 x 23.39	2000x1600x600	1906x1528	75.0x60.2	42
P2FD20184	1999 x 1799 x 394	78.70 x 70.83 x 15.51	2000x1800x400	1906x1728	75.0x68.0	42
P2FD20186	1999 x 1799 x 594	78.70 x 70.83 x 23.39	2000x1800x600	1906x1728	75.0x68.0	42
P2FD22124	2199 x 1199 x 394	86.57 x 47.20 x 15.51	2200x1200x400	2106x1128	82.9x44.4	47
P2FD22126	2199 x 1199 x 594	86.57 x 47.20 x 23.39	2200x1200x600	2106x1128	82.9x44.4	47
P2FD22164	2199 x 1599 x 394	86.57 x 62.95 x 15.51	2200x1600x400	2106x1528	82.9x60.2	47
P2FD22166	2199 x 1599 x 594	86.57 x 62.95 x 23.39	2200x1600x600	2106x1528	82.9x60.2	47
P2FD22184	2199 x 1799 x 394	86.57 x 70.83 x 15.51	2200x1800x400	2106x1728	82.9x68.0	47
P2FD22186	2199 x 1799 x 594	86.57 x 70.83 x 23.39	2200x1800x600	2106x1728	82.9x68.0	47

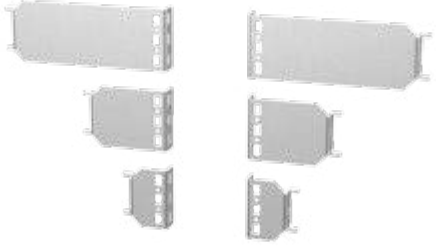
HxWxD are nominal height, width and depth dimensions.



Model	Component	Type	Height	Width	Depth	Specialty	Catalog Number
P2	F	D	20	18	6	Blank	= P2FD20186
PROLINE G2	Frame	Blank = standard D = disconnect	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600	mm 18 = 1800 16 = 1600 12 = 1200	mm 6 = 600 4 = 400	Blank = standard	

NOTE: Not every combination is available as a standard product.

FRAME REDUCING BRACKETS



APPLICATION

- Frame-Reducing Brackets are used to reduce wider frames to 600mm, allowing 19-in. rack angles to fit
- Brackets can also be used to left- or right- justify rack-mounted equipment

SPECIFICATIONS

- Furnished in sets of four
- 14 gauge (1.75 mm) steel
- Mounting hardware included

FINISH

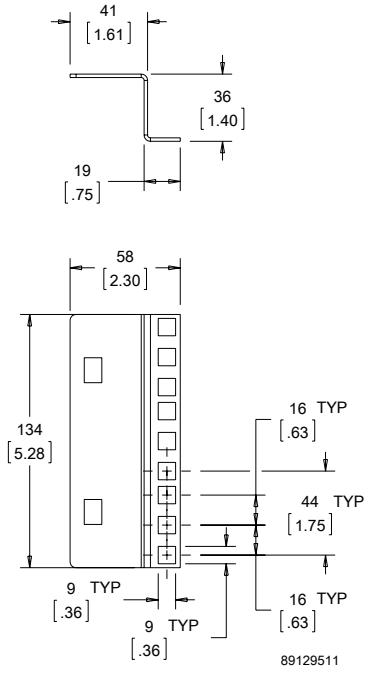
Plated

BULLETIN: P40

Catalog Number	D (mm)	D (in.)	Converts Frame Width (mm)
P2AFRB50	50	2.0	From 800 to 700
P2AFRB100	100	3.9	From 800 to 600
P2AFRB200	200	7.9	From 1000 to 600

FRAME ACCESSORY BRACKETS

Catalog Number	Description
P2AFB19	19-in. Frame Accessory Bracket



APPLICATION

Frame Accessory Brackets mount directly to the PROLINE G2 frame and are used in place of rack angles to mount rack accessories such as shelves and pull-out shelves.

SPECIFICATIONS

- Furnished in sets of four
- 14-gauge (1.75 mm) steel
- Mounting hardware included

FINISH

Plated

BULLETIN: P40

TOUCH-UP PAINT

For repairing the finish of any painted parts.

BULLETIN: DACCY, P20

Catalog Number	Description
ATPG7035	RAL 7035 Gray
ATPB9005	RAL 9005 Black

FASTENER PACKAGES

PROLINE G2 Fastener Packages can be ordered if extra or alternate fasteners are required.

P2ABVM6FP includes (10) BV-M6 fasteners (Blind, Variable M6 screw-based fastener), an innovative alternative to cage nuts or self-tapping screws that can cause stripped holes. The fastener combines a screw and nut in one easy-to-handle package. With the BV-M6 there's no need to access the back of the fastener to tighten, and the thickness of the item being attached need not be predefined. When the BV-M6 is tightened, the embedded nut engages and moves up the screw thread to fasten.

P2ACNFP can be used instead of the BV-M6 fastener to mount components directly to the rectangular holes on the frame or grid straps.

P2ASTXFP can be used to mount components directly to the round holes on the frame or grid straps.

BULLETIN: P40

Catalog Number	Description
P2ABVM6FP	(10) BV-M6 fasteners
P2ACNFP	(20) front-loading M6 clip nuts and (20) M6 Torx head screws
P2ASTXFP	(20) self-tapping, M5 Torx head screws

FRAME FLOOR-MOUNTING BRACKET

APPLICATION

Provides a structural method of bolting a PROLINE G2 frame to the floor.

SPECIFICATIONS

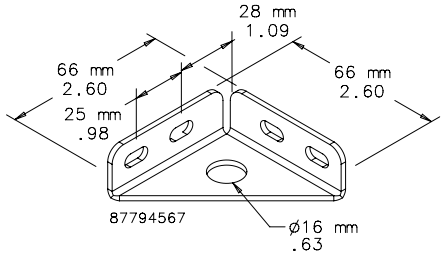
- Fits all frame sizes
- Kit includes four brackets and mounting hardware
- 12-gauge (2.5mm) mild steel
- Not for use on Colocation Frames (Networking product group), which include welded-in, floor mounting brackets

FINISH

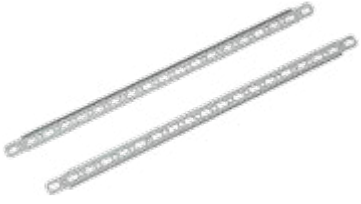
- Plated finish

BULLETIN: P40

Catalog Number
P2AFMK

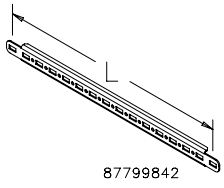


WIRE MANAGEMENT RAILS



Wire Management Rails are 14 gauge steel with a plated finish. They feature a unique hole pattern that allows either wire ties or fasteners to secure wires in place. Frame-mounting hardware is included. One package contains 20 rails.

BULLETIN: P40



Catalog Number	L mm/in.	Fits Frame Depth mm
P2AWMR4	304 12.0	400
P2AWMR5	404 15.9	500
P2AWMR6	504 19.8	600
P2AWMR8	704 27.7	800
P2AWMR10	904 35.6	1000

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CABLE ENTRY CABINET

APPLICATION

The Cable Entry Cabinet is a narrow, full-height cabinet that attaches to the side of a modular enclosure frame for cable management. The full-height side opening can be covered with a solid door or side cover. Closure plates are available to seal the top and bottom of the cable entry cabinet.

FEATURES

- Cable Entry Cabinets provide a clean solution for cable management, allowing more space inside the enclosure for electronics
- The full-height side opening can be covered with a solid door or side cover (not included)
- Cabinets have foam-in-place gasket and optional accessories to maintain enclosure environmental integrity

SPECIFICATIONS

- Open top and bottom of cabinet provide cable access and management
- Closure plates, available as optional accessories, seal the open ends of the cabinet
- 14 gauge (1.75mm) mild steel

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

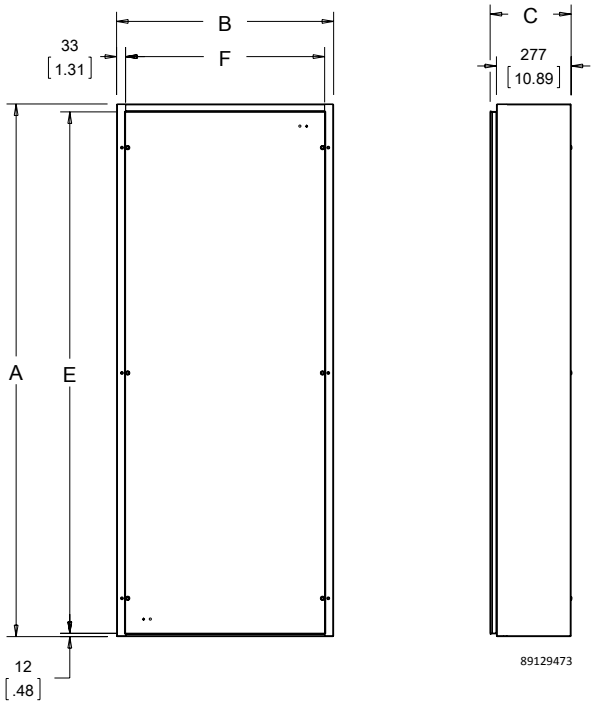
ACCESSORIES

Closure Plates, page 474
Side Cover, page 498
Solid Doors (Single or Overlapping Double), page 482
Window Doors, page 485

BULLETIN: P40

Standard Product

Catalog Number	AxBxC mm	AxBxC in.	Fits Frame H x D (mm)	E (mm)	E (in.)	F (mm)	F (in.)	J (mm)	J (in.)
P2FC125	1173 x 504 x 300	46.18 x 19.84 x 11.81	1200 x 500	1131	44.53	437	17.20	428	16.85
P2FC126	1173 x 604 x 300	46.18 x 23.78 x 11.81	1200 x 600	1131	44.53	537	21.14	528	20.79
P2FC128	1173 x 804 x 300	46.18 x 31.65 x 11.81	1200 x 800	1131	44.53	737	29.03	728	28.66
P2FC145	1373 x 504 x 300	54.06 x 19.84 x 11.81	1400 x 500	1331	52.41	437	17.20	428	16.85
P2FC148	1373 x 804 x 300	54.06 x 31.65 x 11.81	1400 x 800	1331	52.41	737	29.03	728	28.66
P2FC164	1573 x 404 x 300	61.93 x 15.91 x 11.81	1600 x 400	1531	60.28	337	13.27	328	12.91
P2FC165	1573 x 504 x 300	61.93 x 19.84 x 11.81	1600 x 500	1531	60.28	437	17.20	428	16.85
P2FC166	1573 x 604 x 300	61.93 x 23.78 x 11.81	1600 x 600	1531	60.28	537	21.14	528	20.79
P2FC168	1573 x 804 x 300	61.93 x 31.65 x 11.81	1600 x 800	1531	60.28	737	29.03	728	28.66
P2FC184	1773 x 404 x 300	69.80 x 15.91 x 11.81	1800 x 400	1731	68.15	337	13.27	328	12.91
P2FC185	1773 x 504 x 300	69.80 x 19.84 x 11.81	1800 x 500	1731	68.15	437	17.20	428	16.85
P2FC186	1773 x 604 x 300	69.80 x 23.78 x 11.81	1800 x 600	1731	68.15	537	21.14	528	20.79
P2FC188	1773 x 804 x 300	69.80 x 31.65 x 11.81	1800 x 800	1731	68.15	737	29.03	728	28.66
P2FC204	1973 x 404 x 300	77.68 x 15.91 x 11.81	2000 x 400	1931	76.04	337	13.27	328	12.91
P2FC205	1973 x 504 x 300	77.68 x 19.84 x 11.81	2000 x 500	1931	76.04	437	17.20	428	16.85
P2FC206	1973 x 604 x 300	77.68 x 23.78 x 11.81	2000 x 600	1931	76.04	537	21.14	528	20.79
P2FC208	1973 x 804 x 300	77.68 x 31.65 x 11.81	2000 x 800	1931	76.04	737	29.03	728	28.66
P2FC2010	1973 x 1004 x 300	77.68 x 39.53 x 11.81	2000 x 1000	1931	76.04	937	36.89	928	36.54
P2FC225	2173 x 504 x 300	85.55 x 19.84 x 11.81	2200 x 500	2131	83.91	437	17.20	428	16.85
P2FC226	2173 x 604 x 300	85.55 x 23.78 x 11.81	2200 x 600	2131	83.91	537	21.14	528	20.79
P2FC228	2173 x 804 x 300	85.55 x 31.65 x 11.81	2200 x 800	2131	83.91	737	29.03	728	28.66
P2FC2210	2173 x 1004 x 300	85.55 x 39.53 x 11.81	2200 x 1000	2131	83.91	937	36.89	928	36.54



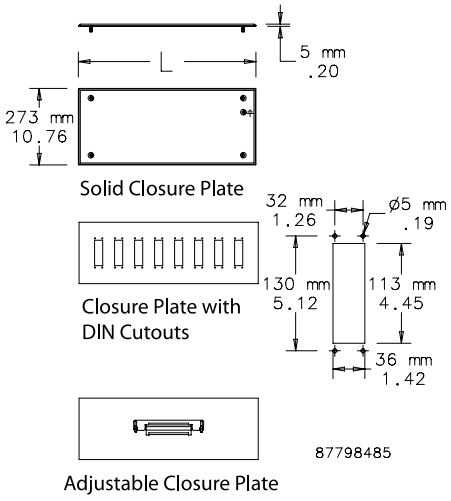
Model	Component	Type	Height	Depth		Catalog Number
P2	F	C	20	6	=	P2FC206
PROLINE G2	Frame	Blank = standard bay D = disconnect C = cable entry cabinet	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400		

NOTE: Not every combination is available as a standard product.

CLOSURE PLATES

Closure Plates seal the ends of the Cable Entry Cabinet. Made from 14 gauge steel and finished with RAL 7035 textured gray polyester powder paint.

BULLETIN: P20, P40



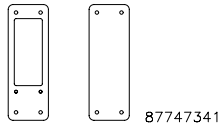
Catalog Number	Description	L mm/in.	Number of DIN Cutouts
PCECGPD5	With DIN cutouts - Fits 500-mm wide cable entry cabinets	497 19.57	5
PCECGPD8	With DIN cutouts - Fits 800-mm wide cable entry cabinets	797 31.38	8
PCEGPA6	Adjustable - Fits 600-mm wide cable entry cabinets	597 23.51	—
PCEGPA8	Adjustable - Fits 800-mm wide cable entry cabinets	797 31.38	—
P2FCP4	Solid - Fits 400-mm wide cable entry cabinets	397 15.63	—
P2FCP5	Solid - Fits 500-mm wide cable entry cabinets	497 19.57	—
P2FCP6	Solid - Fits 600-mm wide cable entry cabinets	597 23.51	—
P2FCP8	Solid - Fits 800-mm wide cable entry cabinets	797 31.38	—
P2FCP10	Solid - Fits 1000-mm wide cable entry cabinets	997 39.26	—

CLOSURE PLATE ADAPTERS FOR CUTOUTS

Adapters are used with closure plates containing cutouts. Made from 12 gauge steel and finished with RAL 7035 textured gray polyester powder paint. Allows the option of adapting from 24-pin to 16-pin, 24-pin to 10-pin, 24-pin to 6-pin and 24-pin to no pins (blank).

BULLETIN: P20

Closure Plate Adapters

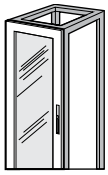


Catalog Number	Description	Adapter Qty./Package
PAD240	From 24-pin to blank solid cover	1
PAD2416	From 24-pin to 16-pin	1
PAD2410	From 24-pin to 10-pin	1
PAD246	From 24-pin to 6-pin	1

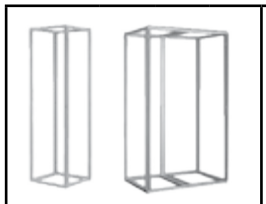
Adapters fit all cable entry cabinets and barriers with 24-pin DIN connector cutouts.

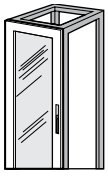
Notes

SELECTION MATRIX: DOORS, COVERS AND SIDES



Frame	A	B	C	Solid Side	Solid Cover	Solid Single Door	Overlapping Solid Doors	Polycarbonate Window Door	Safety Glass Window Door	Overlapping Safety Glass Window Door	Overlapping Polycarbonate Window Door	Dress Frame
P2F664	600	600	400	P2CS64	P2C66	P2D66	N/A	P2DW66	P2DWG66	N/A	N/A	P2DF66
P2F666	600	600	600	P2CS66	P2C66	P2D66	N/A	P2DW66	P2DWG66	N/A	N/A	P2DF66
P2F688	600	800	800	P2CS68	P2C68	P2D68	P2DO68	P2DW68	P2DWG68	N/A	N/A	P2DF68
P2F864	800	600	400	P2CS84	P2C86	P2D86	N/A	P2DW86	P2DWG86	N/A	N/A	P2DF86
P2F866	800	600	600	P2CS86	P2C86	P2D86	N/A	P2DW86	P2DWG86	N/A	N/A	P2DF86
P2F888	800	800	800	P2CS88	P2C88	P2D88	P2DO88	P2DW88	P2DWG88	N/A	N/A	P2DF88
P2F1064	1000	600	400	P2CS104	P2C106	P2D106	N/A	P2DW106	P2DWG106	N/A	N/A	P2DF106
P2F1065	1000	600	500	P2CS105	P2C106	P2D106	N/A	P2DW106	P2DWG106	N/A	N/A	P2DF106
P2F1066	1000	600	600	P2CS106	P2C106	P2D106	N/A	P2DW106	P2DWG106	N/A	N/A	P2DF106
P2F1085	1000	800	500	P2CS105	P2C108	P2D108	P2DO108	P2DW108	P2DWG108	N/A	N/A	P2DF108
P2F1086	1000	800	600	P2CS106	P2C108	P2D108	P2DO108	P2DW108	P2DWG108	N/A	N/A	P2DF108
P2F1088	1000	800	800	P2CS108	P2C108	P2D108	P2DO108	P2DW108	P2DWG108	N/A	N/A	P2DF108
P2F10125	1000	1200	500	P2CS105	P2C106 (2)	N/A	P2DO1012	N/A	N/A	P2DWOG1012	P2DWO1012	N/A
P2F1264	1200	600	400	P2CS124	P2C126	P2D126	N/A	P2DW126	P2DWG126	N/A	N/A	P2DF126
P2F1265	1200	600	500	P2CS125	P2C126	P2D126	N/A	P2DW126	P2DWG126	N/A	N/A	P2DF126
P2F1266	1200	600	600	P2CS126	P2C126	P2D126	N/A	P2DW126	P2DWG126	N/A	N/A	P2DF126
P2F1285	1200	800	500	P2CS125	P2C128	P2D128	P2DO128	P2DW128	P2DWG128	N/A	N/A	P2DF128
P2F1286	1200	800	600	P2CS126	P2C128	P2D128	P2DO128	P2DW128	P2DWG128	N/A	N/A	P2DF128
P2F1288	1200	800	800	P2CS128	P2C128	P2D128	P2DO128	P2DW128	P2DWG128	N/A	N/A	P2DF128
P2F12125	1200	1200	500	P2CS125	P2C126 (2)	N/A	P2DO1212	N/A	N/A	P2DWOG1212	P2DWO1212	N/A
P2F1465	1400	600	500	P2CS145	P2C146	P2D146	N/A	P2DW146	P2DWG146	N/A	N/A	P2DF146
P2F1466	1400	600	600	P2CS146	P2C146	P2D146	N/A	P2DW146	P2DWG146	N/A	N/A	P2DF146
P2F1468	1400	600	800	P2CS148	P2C146	P2D146	N/A	P2DW146	P2DWG146	N/A	N/A	P2DF146
P2F1485	1400	800	500	P2CS145	P2C148	P2D148	P2DO148	P2DW148	P2DWG148	N/A	N/A	P2DF148
P2F1486	1400	800	600	P2CS146	P2C148	P2D148	P2DO148	P2DW148	P2DWG148	N/A	N/A	P2DF148
P2F1488	1400	800	800	P2CS148	P2C148	P2D148	P2DO148	P2DW148	P2DWG148	N/A	N/A	P2DF148
P2F14125	1400	1200	500	P2CS145	P2C146 (2)	N/A	P2DO1412	N/A	N/A	P2DWOG1412	P2DWO1412	N/A
P2F1664	1600	600	400	P2CS164	P2C166	P2D166	N/A	P2DW166	P2DWG166	N/A	N/A	P2DF166
P2F1665	1600	600	500	P2CS165	P2C166	P2D166	N/A	P2DW166	P2DWG166	N/A	N/A	P2DF166
P2F1666	1600	600	600	P2CS166	P2C166	P2D166	N/A	P2DW166	P2DWG166	N/A	N/A	P2DF166
P2F1668	1600	600	800	P2CS168	P2C166	P2D166	N/A	P2DW166	P2DWG166	N/A	N/A	P2DF166
P2F1684	1600	800	400	P2CS164	P2C168	P2D168	P2DO168	P2DW168	P2DWG168	N/A	N/A	P2DF168
P2F1685	1600	800	500	P2CS165	P2C168	P2D168	P2DO168	P2DW168	P2DWG168	N/A	N/A	P2DF168
P2F1686	1600	800	600	P2CS166	P2C168	P2D168	P2DO168	P2DW168	P2DWG168	N/A	N/A	P2DF168
P2F1688	1600	800	800	P2CS168	P2C168	P2D168	P2DO168	P2DW168	P2DWG168	N/A	N/A	P2DF168
P2F16104	1600	1000	400	P2CS164	P2C1610	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P2F16106	1600	1000	600	P2CS166	P2C1610	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P2F16124	1600	1200	400	P2CS164	P2C166 (2)	N/A	P2DO1612	N/A	N/A	P2DWOG1612	P2DWO1612	N/A
P2F16125	1600	1200	500	P2CS165	P2C166 (2)	N/A	P2DO1612	N/A	N/A	P2DWOG1612	P2DWO1612	N/A
P2F16126	1600	1200	600	P2CS166	P2C166 (2)	N/A	P2DO1612	N/A	N/A	P2DWOG1612	P2DWO1612	N/A





Frame	A	B	C	Solid Side	Solid Cover	Solid Single Door	Overlapping Solid Doors	Polycarbonate Window Door	Safety Glass Window Door	Overlapping Safety Glass Window Door	Overlapping Polycarbonate Window Door	Dress Frame
P2F16128	1600	1200	800	P2CS168	P2C166 (2)	N/A	P2DO1612	N/A	N/A	P2DWOG1612	P2DWO1612	N/A
P2F16164	1600	1600	400	P2CS164	P2C168 (2)	N/A	P2DO1616	N/A	N/A	P2DWOG1616	P2DWO1616	N/A
P2F16165	1600	1600	500	P2CS165	P2C168 (2)	N/A	P2DO1616	N/A	N/A	P2DWOG1616	P2DWO1616	N/A
P2F16166	1600	1600	600	P2CS166	P2C168 (2)	N/A	P2DO1616	N/A	N/A	P2DWOG1616	P2DWO1616	N/A
P2F16168	1600	1600	800	P2CS168	P2C168 (2)	N/A	P2DO1616	N/A	N/A	P2DWOG1616	P2DWO1616	N/A
P2F1845	1800	400	500	P2CS185	P2C184	P2D184	N/A	P2DW184	P2DWG184	N/A	N/A	P2DF184
P2F1846	1800	400	600	P2CS186	P2C184	P2D184	N/A	P2DW184	P2DWG184	N/A	N/A	P2DF184
P2F1864	1800	600	400	P2CS184	P2C186	P2D186	N/A	P2DW186	P2DWG186	N/A	N/A	P2DF186
P2F1865	1800	600	500	P2CS185	P2C186	P2D186	N/A	P2DW186	P2DWG186	N/A	N/A	P2DF186
P2F1866	1800	600	600	P2CS186	P2C186	P2D186	N/A	P2DW186	P2DWG186	N/A	N/A	P2DF186
P2F1868	1800	600	800	P2CS188	P2C186	P2D186	N/A	P2DW186	P2DWG186	N/A	N/A	P2DF186
P2F1884	1800	800	400	P2CS184	P2C188	P2D188	P2DO188	P2DW188	P2DWG188	N/A	N/A	P2DF188
P2F1885	1800	800	500	P2CS185	P2C188	P2D188	P2DO188	P2DW188	P2DWG188	N/A	N/A	P2DF188
P2F1886	1800	800	600	P2CS186	P2C188	P2D188	P2DO188	P2DW188	P2DWG188	N/A	N/A	P2DF188
P2F1888	1800	800	800	P2CS188	P2C188	P2D188	P2DO188	P2DW188	P2DWG188	N/A	N/A	P2DF188
P2F18104	1800	1000	400	P2CS184	P2C1810	P2D1810	P2DO1810	P2DW1810	P2DWG1810	N/A	N/A	N/A
P2F18105	1800	1000	500	P2CS185	P2C1810	P2D1810	P2DO1810	P2DW1810	P2DWG1810	N/A	N/A	N/A
P2F18106	1800	1000	600	P2CS186	P2C1810	P2D1810	P2DO1810	P2DW1810	P2DWG1810	N/A	N/A	N/A
P2F18108	1800	1000	800	P2CS188	P2C1810	P2D1810	P2DO1810	P2DW1810	P2DWG1810	N/A	N/A	N/A
P2F18124	1800	1200	400	P2CS184	P2C186 (2)	N/A	P2DO1812	N/A	N/A	P2DWOG1812	P2DWO1812	N/A
P2F18125	1800	1200	500	P2CS185	P2C186 (2)	N/A	P2DO1812	N/A	N/A	P2DWOG1812	P2DWO1812	N/A
P2F18126	1800	1200	600	P2CS186	P2C186 (2)	N/A	P2DO1812	N/A	N/A	P2DWOG1812	P2DWO1812	N/A
P2F18128	1800	1200	800	P2CS188	P2C186 (2)	N/A	P2DO1812	N/A	N/A	P2DWOG1812	P2DWO1812	N/A
P2F18164	1800	1600	400	P2CS184	P2C188 (2)	N/A	P2DO1816	N/A	N/A	P2DWOG1816	P2DWO1816	N/A
P2F18165	1800	1600	500	P2CS185	P2C188 (2)	N/A	P2DO1816	N/A	N/A	P2DWOG1816	P2DWO1816	N/A
P2F18166	1800	1600	600	P2CS186	P2C188 (2)	N/A	P2DO1816	N/A	N/A	P2DWOG1816	P2DWO1816	N/A
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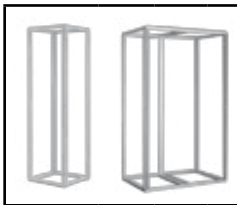
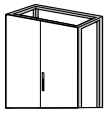
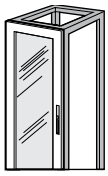
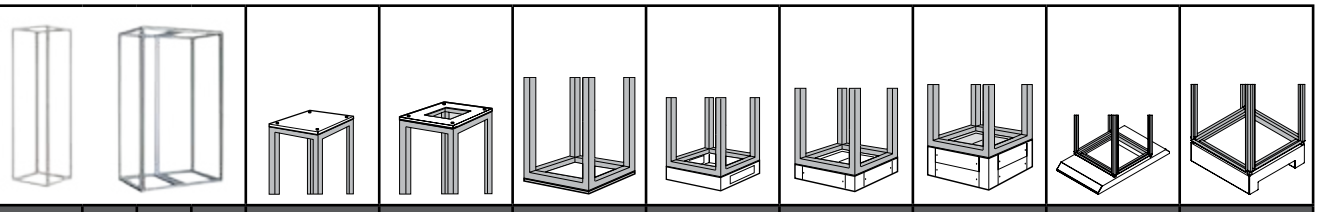
P2F18185	1800	1800	500	P2CS185	P2C189 (2)	N/A	P2DO1818	N/A	N/A	P2DWOG1818	P2DWO1818	N/A
P2F18186	1800	1800	600	P2CS186	P2C189 (2)	N/A	P2DO1818	N/A	N/A	P2DWOG1818	P2DWO1818	N/A
P2F18188	1800	1800	800	P2CS188	P2C189 (2)	N/A	P2DO1818	N/A	N/A	P2DWOG1818	P2DWO1818	N/A
P2F2045	2000	400	500	P2CS205	P2C204	P2D204	N/A	P2DW204	P2DWG204	N/A	N/A	P2DF204
P2F2046	2000	400	600	P2CS206	P2C204	P2D204	N/A	P2DW204	P2DWG204	N/A	N/A	P2DF204
P2F2064	2000	600	400	P2CS204	P2C206	P2D206	N/A	P2DW206	P2DWG206	N/A	N/A	P2DF206
P2F2065	2000	600	500	P2CS205	P2C206	P2D206	N/A	P2DW206	P2DWG206	N/A	N/A	P2DF206
P2F2066	2000	600	600	P2CS206	P2C206	P2D206	N/A	P2DW206	P2DWG206	N/A	N/A	P2DF206
P2F2068	2000	600	800	P2CS208	P2C206	P2D206	N/A	P2DW206	P2DWG206	N/A	N/A	P2DF206
P2F2084	2000	800	400	P2CS204	P2C208	P2D208	P2DO208	P2DW208	P2DWG208	N/A	N/A	P2DF208
P2F2085	2000	800	500	P2CS205	P2C208	P2D208	P2DO208	P2DW208	P2DWG208	N/A	N/A	P2DF208
P2F2086	2000	800	600	P2CS206	P2C208	P2D208	P2DO208	P2DW208	P2DWG208	N/A	N/A	P2DF208
P2F2088	2000	800	800	P2CS208	P2C208	P2D208	P2DO208	P2DW208	P2DWG208	N/A	N/A	P2DF208
P2F20810	2000	800	1000	P2CS2010	P2C208	P2D208	P2DO208	P2DW208	P2DWG208	N/A	N/A	P2DF208
P2F20105	2000	1000	500	P2CS205	P2C2010	P2D2010	P2DO2010	P2DW2010	P2DWG2010	N/A	N/A	N/A



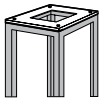
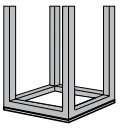
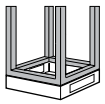
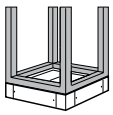
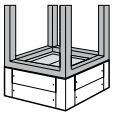
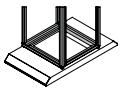
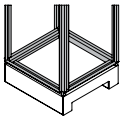



Frame	A	B	C	Solid Side	Solid Cover	Solid Single Door	Overlapping Solid Doors	Polycarbonate Window Door	Safety Glass Window Door	Overlapping Safety Glass Window Door	Overlapping Polycarbonate Window Door	Dress Frame
P2F20106	2000	1000	600	P2CS206	P2C2010	P2D2010	P2DO2010	P2DW2010	P2DWG2010	N/A	N/A	N/A
P2F20108	2000	1000	800	P2CS208	P2C2010	P2D2010	P2DO2010	P2DW2010	P2DWG2010	N/A	N/A	N/A
P2F20124	2000	1200	400	P2CS204	P2C206 (2)	N/A	P2DO2012	N/A	N/A	P2DWOG2012	P2DWO2012	N/A
P2F20125	2000	1200	500	P2CS205	P2C206 (2)	N/A	P2DO2012	N/A	N/A	P2DWOG2012	P2DWO2012	N/A
P2F20126	2000	1200	600	P2CS206	P2C206 (2)	N/A	P2DO2012	N/A	N/A	P2DWOG2012	P2DWO2012	N/A
P2F20128	2000	1200	800	P2CS208	P2C206 (2)	N/A	P2DO2012	N/A	N/A	P2DWOG2012	P2DWO2012	N/A
P2F20165	2000	1600	500	P2CS205	P2C208 (2)	N/A	P2DO2016	N/A	N/A	P2DWOG2016	P2DWO2016	N/A
P2F20166	2000	1600	600	P2CS206	P2C208 (2)	N/A	P2DO2016	N/A	N/A	P2DWOG2016	P2DWO2016	N/A
P2F20168	2000	1600	800	P2CS208	P2C208 (2)	N/A	P2DO2016	N/A	N/A	P2DWOG2016	P2DWO2016	N/A
P2F20185	2000	1800	500	P2CS206	P2C209 (2)	N/A	P2DO2018	N/A	N/A	P2DWOG2018	P2DWO2018	N/A
P2F20186	2000	1800	600	P2CS208	P2C209 (2)	N/A	P2DO2018	N/A	N/A	P2DWOG2018	P2DWO2018	N/A
P2F20188	2000	1800	800	P2CS208	P2C209 (2)	N/A	P2DO2018	N/A	N/A	P2DWOG2018	P2DWO2018	N/A
P2F2265	2200	600	500	P2CS225	P2C225	P2D226	N/A	P2DW226	P2DWG226	N/A	N/A	P2DF226
P2F2266	2200	600	600	P2CS226	P2C226	P2D226	N/A	P2DW226	P2DWG226	N/A	N/A	P2DF226
P2F2268	2200	600	800	P2CS228	P2C226	P2D226	N/A	P2DW226	P2DWG226	N/A	N/A	P2DF226
P2F2285	2200	800	500	P2CS225	P2C228	P2D228	P2DO228	P2DW228	P2DWG228	N/A	N/A	P2DF228
P2F2286	2200	800	600	P2CS226	P2C228	P2D228	P2DO228	P2DW228	P2DWG228	N/A	N/A	P2DF228
P2F2288	2200	800	800	P2CS228	P2C228	P2D228	P2DO228	P2DW228	P2DWG228	N/A	N/A	P2DF228
P2F22810	2200	800	1000	P2CS2210	P2C228	P2D228	P2DO228	P2DW228	P2DWG228	N/A	N/A	P2DF228
P2F22105	2200	1000	500	P2CS225	P2C2210	P2D2210	P2DO2210	P2DW2210	P2DWG2210	N/A	N/A	N/A
P2F22106	2200	1000	600	P2CS226	P2C2210	P2D2210	P2DO2210	P2DW2210	P2DWG2210	N/A	N/A	N/A
P2F22108	2200	1000	800	P2CS228	P2C2210	P2D2210	P2DO2210	P2DW2210	P2DWG2210	N/A	N/A	N/A
P2F22125	2200	1200	500	P2CS225	P2C226 (2)	N/A	P2DO2212	N/A	N/A	P2DWOG2212	P2DWO2212	N/A
P2F22126	2200	1200	600	P2CS226	P2C226 (2)	N/A	P2DO2212	N/A	N/A	P2DWOG2212	P2DWO2212	N/A
P2F22128	2200	1200	800	P2CS228	P2C226 (2)	N/A	P2DO2212	N/A	N/A	P2DWOG2212	P2DWO2212	N/A
P2F22165	2200	1600	500	P2CS225	P2C228 (2)	N/A	P2DO2216	N/A	N/A	P2DWOG2216	P2DWO2216	N/A
P2F22166	2200	1600	600	P2CS226	P2C228 (2)	N/A	P2DO2216	N/A	N/A	P2DWOG2216	P2DWO2216	N/A
P2F22168	2200	1600	800	P2CS228	P2C228 (2)	N/A	P2DO2216	N/A	N/A	P2DWOG2216	P2DWO2216	N/A
P2F22185	2200	1800	500	P2CS225	P2C229 (2)	N/A	P2DO2218	N/A	N/A	P2DWOG2218	P2DWO2218	N/A
P2F22186	2200	1800	600	P2CS226	P2C229 (2)	N/A	P2DO2218	N/A	N/A	P2DWOG2218	P2DWO2218	N/A
P2F22188	2200	1800	800	P2CS228	P2C229 (2)	N/A	P2DO2218	N/A	N/A	P2DWOG2218	P2DWO2218	N/A

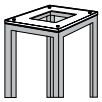
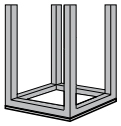
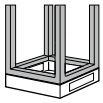
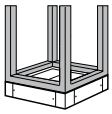
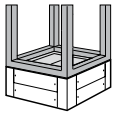
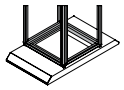
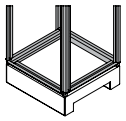
SELECTION MATRIX: TOPS AND BASES



Frame	A	B	C	Solid Top	Pagoda Top	Solid Base (0mm)	Fully-Sealed Plinth Base	Plinth Base 100mm	Plinth Base 200mm	Transportation Base	Mobile Base
P2F664	600	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F666	600	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F688	600	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F864	800	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F866	800	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F888	800	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F1064	1000	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F1065	1000	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F1066	1000	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F1085	1000	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F1086	1000	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F1088	1000	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F10125	1000	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F1264	1200	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F1265	1200	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F1266	1200	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F1285	1200	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F1286	1200	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F1288	1200	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F12125	1200	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F1465	1400	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F1466	1400	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F1468	1400	600	800	P2T68	P2TP68	P2B068	P2B168	P2BP168	P2BP268	P2BT68	P2BM68
P2F1485	1400	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F1486	1400	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F1488	1400	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F14125	1400	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F1664	1600	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F1665	1600	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F1666	1600	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F1668	1600	600	800	P2T68	P2TP68	P2B068	P2B168	P2BP168	P2BP268	P2BT68	P2BM68
P2F1684	1600	800	400	P2T84	P2TP84	P2B084	P2B184	P2BP184	P2BP284	P2BT84	P2BM84
P2F1685	1600	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F1686	1600	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F1688	1600	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F16104	1600	1000	400	P2T104	P2TP104	P2B0104	P2B0104	P2BP1104	P2BP2104	P2BT104	N/A
P2F16106	1600	1000	600	P2T106	P2TP106	P2B0106	P2B0106	P2BP1106	P2BP2106	P2BT106	N/A
P2F16124	1600	1200	400	P2T124	P2TP124	P2B0124	P2B0124	P2BP1124	P2BP2124	P2BT124	P2BM64 (2)
P2F16125	1600	1200	500	P2T125	P2TP125	P2B0125	P2B0125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F16126	1600	1200	600	P2T126	P2TP126	P2B0126	P2B0126	P2BP1126	P2BP2126	P2BT126	P2BM66 (2)
P2F16128	1600	1200	800	P2T128	P2TP128	P2B0128	P2B0128	P2BP1128	P2BP2128	P2BT128	P2BM68 (2)

Frame	A	B	C	Solid Top	Pagoda Top	Solid Base (0mm)	Fully-Sealed Plinth Base	Plinth Base 100mm	Plinth Base 200mm	Transportation Base	Mobile Base
P2F16164	1600	1600	400	P2T164	P2TP164	P2B0164	P2B0164	P2BP1164	P2BP2164	P2BT164	P2BM84 (2)
P2F16165	1600	1600	500	P2T165	P2TP165	P2B0165	P2B0165	P2BP1165	P2BP2165	P2BT165	P2BM85 (2)
P2F16166	1600	1600	600	P2T166	P2TP166	P2B0166	P2B0166	P2BP1166	P2BP2166	P2BT166	P2BM86 (2)
P2F16168	1600	1600	800	P2T168	P2TP168	P2B0168	P2B0168	P2BP1168	P2BP2168	P2BT168	P2BM88 (2)
P2F1845	1800	400	500	P2T45	P2TP45	P2B045	P2B145	P2BP145	P2BP245	P2BT45	P2BM45
P2F1846	1800	400	600	P2T46	P2TP46	P2B046	P2B146	P2BP146	P2BP246	P2BT46	P2BM46
P2F1864	1800	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F1865	1800	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F1866	1800	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F1868	1800	600	800	P2T68	P2TP68	P2B068	P2B168	P2BP168	P2BP268	P2BT68	P2BM68
P2F1884	1800	800	400	P2T84	P2TP84	P2B084	P2B184	P2BP184	P2BP284	P2BT84	P2BM84
P2F1885	1800	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F1886	1800	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F1888	1800	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F18104	1800	1000	400	P2T104	P2TP104	P2B0104	P2B1104	P2BP1104	P2BP2104	P2BT104	N/A
P2F18105	1800	1000	500	P2T105	P2TP105	P2B0105	P2B1105	P2BP1105	P2BP2105	P2BT105	N/A
P2F18106	1800	1000	600	P2T106	P2TP106	P2B0106	P2B1106	P2BP1106	P2BP2106	P2BT106	N/A
P2F18108	1800	1000	800	P2T108	P2TP108	P2B0108	P2B1108	P2BP1108	P2BP2108	P2BT108	N/A
P2F18124	1800	1200	400	P2T124	P2TP124	P2B0124	P2B1124	P2BP1124	P2BP2124	P2BT124	P2BM64 (2)
P2F18125	1800	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F18126	1800	1200	600	P2T126	P2TP126	P2B0126	P2B1126	P2BP1126	P2BP2126	P2BT126	P2BM66 (2)
P2F18128	1800	1200	800	P2T128	P2TP128	P2B0128	P2B1128	P2BP1128	P2BP2128	P2BT128	P2BM68 (2)
P2F18164	1800	1600	400	P2T164	P2TP164	P2B0164	P2B1164	P2BP1164	P2BP2164	P2BT164	P2BM84 (2)
P2F18165	1800	1600	500	P2T165	P2TP165	P2B0165	P2B1165	P2BP1165	P2BP2165	P2BT165	P2BM85 (2)
P2F18166	1800	1600	600	P2T166	P2TP166	P2B0166	P2B1166	P2BP1166	P2BP2166	P2BT166	P2BM86 (2)
P2F18168	1800	1600	800	P2T168	P2TP168	P2B0168	P2B1168	P2BP1168	P2BP2168	P2BT168	P2BM88 (2)
P2F18185	1800	1800	500	P2T185	P2TP185	P2B0185	P2B1185	P2BP1185	P2BP2185	P2BT185	N/A
P2F18186	1800	1800	600	P2T186	P2TP186	P2B0186	P2B1186	P2BP1186	P2BP2186	P2BT186	N/A
P2F18188	1800	1800	800	P2T188	P2TP188	P2B0188	P2B1188	P2BP1188	P2BP2188	P2BT188	N/A
P2F2045	2000	400	500	P2T45	P2TP45	P2B045	P2B145	P2BP145	P2BP245	P2BT45	P2BM45
P2F2046	2000	400	600	P2T46	P2TP46	P2B046	P2B146	P2BP146	P2BP246	P2BT46	P2BM46
P2F2064	2000	600	400	P2T64	P2TP64	P2B064	P2B164	P2BP164	P2BP264	P2BT64	P2BM64
P2F2065	2000	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F2066	2000	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F2068	2000	600	800	P2T68	P2TP68	P2B068	P2B168	P2BP168	P2BP268	P2BT68	P2BM68
P2F2084	2000	800	400	P2T84	P2TP84	P2B084	P2B184	P2BP184	P2BP284	P2BT84	P2BM84
P2F2085	2000	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F2086	2000	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F2088	2000	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F20810	2000	800	1000	P2T810	P2TP810	P2B0810	P2B1810	P2BP1810	P2BP2810	P2BT810	P2BM810
P2F20105	2000	1000	500	P2T105	P2TP105	P2B0105	P2B1105	P2BP1105	P2BP2105	P2BT105	N/A
P2F20106	2000	1000	600	P2T106	P2TP106	P2B0106	P2B1106	P2BP1106	P2BP2106	P2BT106	N/A
P2F20108	2000	1000	800	P2T108	P2TP108	P2B0108	P2B1108	P2BP1108	P2BP2108	P2BT108	N/A

Frame	A	B	C	Solid Top	Pagoda Top	Solid Base (0mm)	Fully-Sealed Plinth Base	Plinth Base 100mm	Plinth Base 200mm	Transportation Base	Mobile Base
P2F20124	2000	1200	400	P2T124	P2TP124	P2B0124	P2B1124	P2BP1124	P2BP2124	P2BT124	P2BM64 (2)
P2F20125	2000	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F20126	2000	1200	600	P2T126	P2TP126	P2B0126	P2B1126	P2BP1126	P2BP2126	P2BT126	P2BM66 (2)
P2F20128	2000	1200	800	P2T128	P2TP128	P2B0128	P2B1128	P2BP1128	P2BP2128	P2BT128	P2BM68 (2)
P2F20165	2000	1600	500	P2T165	P2TP165	P2B0165	P2B1165	P2BP1165	P2BP2165	P2BT165	P2BM85 (2)
P2F20166	2000	1600	600	P2T166	P2TP166	P2B0166	P2B1166	P2BP1166	P2BP2166	P2BT166	P2BM86 (2)
P2F20168	2000	1600	800	P2T168	P2TP168	P2B0168	P2B1168	P2BP1168	P2BP2168	P2BT168	P2BM88 (2)
P2F20185	2000	1800	500	P2T185	P2TP185	P2B0185	P2B1185	P2BP1185	P2BP2185	P2BT185	N/A
P2F20186	2000	1800	600	P2T186	P2TP186	P2B0186	P2B1186	P2BP1186	P2BP2186	P2BT186	N/A
P2F20188	2000	1800	800	P2T188	P2TP188	P2B0188	P2B1188	P2BP1188	P2BP2188	P2BT188	N/A
P2F2265	2200	600	500	P2T65	P2TP65	P2B065	P2B165	P2BP165	P2BP265	P2BT65	P2BM65
P2F2266	2200	600	600	P2T66	P2TP66	P2B066	P2B166	P2BP166	P2BP266	P2BT66	P2BM66
P2F2268	2200	600	800	P2T68	P2TP68	P2B068	P2B168	P2BP168	P2BP268	P2BT68	P2BM68
P2F2285	2200	800	500	P2T85	P2TP85	P2B085	P2B185	P2BP185	P2BP285	P2BT85	P2BM85
P2F2286	2200	800	600	P2T86	P2TP86	P2B086	P2B186	P2BP186	P2BP286	P2BT86	P2BM86
P2F2288	2200	800	800	P2T88	P2TP88	P2B088	P2B188	P2BP188	P2BP288	P2BT88	P2BM88
P2F22810	2200	800	1000	P2T810	P2TP810	P2B0810	P2B1810	P2BP1810	P2BP2810	P2BT810	P2BM810
P2F22105	2200	1000	500	P2T105	P2TP105	P2B0105	P2B1105	P2BP1105	P2BP2105	P2BT105	N/A
P2F22106	2200	1000	600	P2T106	P2TP106	P2B0106	P2B1106	P2BP1106	P2BP2106	P2BT106	N/A
P2F22108	2200	1000	800	P2T108	P2TP108	P2B0108	P2B1108	P2BP1108	P2BP2108	P2BT108	N/A
P2F22125	2200	1200	500	P2T125	P2TP125	P2B0125	P2B1125	P2BP1125	P2BP2125	P2BT125	P2BM65 (2)
P2F22126	2200	1200	600	P2T126	P2TP126	P2B0126	P2B1126	P2BP1126	P2BP2126	P2BT126	P2BM66 (2)
P2F22128	2200	1200	800	P2T128	P2TP128	P2B0128	P2B1128	P2BP1128	P2BP2128	P2BT128	P2BM68 (2)
P2F22165	2200	1600	500	P2T165	P2TP165	P2B0165	P2B1165	P2BP1165	P2BP2165	P2BT165	P2BM85 (2)
P2F22166	2200	1600	600	P2T166	P2TP166	P2B0166	P2B1166	P2BP1166	P2BP2166	P2BT166	P2BM86 (2)
P2F22168	2200	1600	800	P2T168	P2TP168	P2B0168	P2B1168	P2BP1168	P2BP2168	P2BT168	P2BM88 (2)
P2F22185	2200	1800	500	P2T185	P2TP185	P2B0185	P2B1185	P2BP1185	P2BP2185	P2BT185	N/A
P2F22186	2200	1800	600	P2T186	P2TP186	P2B0186	P2B1186	P2BP1186	P2BP2186	P2BT186	N/A
P2F22188	2200	1800	800	P2T188	P2TP188	P2B0188	P2B1188	P2BP1188	P2BP2188	P2BT188	N/A

SOLID DOORS (SINGLE OR OVERLAPPING DOUBLE)

APPLICATION

PROLINE G2 Solid Doors (Single or Overlapping Double) feature a solid swing and a high load capacity. The Smooth Glide latching system is made from quality components and incorporates an innovative timed latch action, ensuring a solid door seal with a low closure force. Sold individually.

FEATURES

- Smooth Glide latching system – for a smooth, reliable and repeatable door close over enclosure lifetime
- Low-profile Swing Handle with key lock; other options available
- Seamless polyurethane gasket (UL Component Recognized) provides a watertight, dust-tight seal against moisture and contaminants

SPECIFICATIONS

- Single doors available for frames up to 1000 mm wide
- Overlapping double doors available for frames 800 mm wide and greater
- Door bar system on all doors
- Timed latch engagement to ensure top and bottom of door catch reliably
- Durable, double-flanged latch rod and three Delrin® rollers to prevent metal-on-metal grinding
- 3-point latch system for doors 1000 mm or greater in height
- Key lock handle standard; other options available
- Single doors can be hinged on left or right (default left); overlapping double doors can have the primary door as the left or right door (default right)
- 14 gauge (1.75 mm) mild steel
- 140-degree hinging standard (180-degree hinge option available)
- Door can be reversed without removing the side covers
- Can be used on front or rear of enclosure; can be used on the sides of enclosure with side door adapter (not included)
- Two grounding studs
- All mounting hardware included
- Sold individually

Overlapping Double Doors – Additional Specifications

- Primary door with Smooth Glide latching system
- Secondary door has two latch points with a center lever to ensure secure door closure

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

- 250/113kg, safety factor 1.5; frame size: 2000x600x800 mm (load ratings vary by frame size)

ACCESSORIES

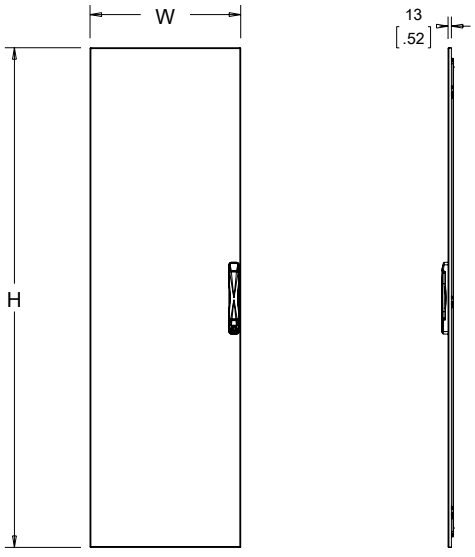
PROLINE Grounding Kit, page 550
Door Stop Kit, page 491
180-Degree Hinge Kit, page 492
Side Door Adapter, page 490
Flush Swing Handles, page 496
L Handle, page 496
Flush Bezels, page 496
Small Flush Swing Handle, page 497
Steel Data Pocket, page 495
Thermoplastic Data Pocket, page 494
Door Bar Grid Straps, page 495
Door Support Roller Kit, page 492

BULLETIN: P40

Standard Product **Single Door**

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW (mm)
P2D64	583	23.0	398	15.7	600x400
P2D66	583	23.0	598	23.5	600x600
P2D68	583	23.0	798	31.4	600x800
P2D86	783	30.8	598	23.5	800x600
P2D88	783	30.8	798	31.4	800x800
P2D105	983	38.7	498	19.6	1000x500
P2D106	983	38.7	598	23.5	1000x600
P2D108	983	38.7	798	31.4	1000x800
P2D125	1183	46.6	498	19.6	1200x500
P2D126	1183	46.6	598	23.5	1200x600
P2D128	1183	46.6	798	31.4	1200x800
P2D145	1383	54.4	498	19.6	1400x500
P2D146	1383	54.4	598	23.5	1400x600
P2D164	1583	62.3	398	15.7	1600x400
P2D165	1583	62.3	498	19.6	1600x500
P2D166	1583	62.3	598	23.5	1600x600
P2D168	1583	62.3	798	31.4	1600x800
P2D184	1783	70.2	398	15.7	1800x400
P2D185	1783	70.2	498	19.6	1800x500
P2D186	1783	70.2	598	23.5	1800x600
P2D187	1783	70.2	698	27.5	1800x700
P2D188	1783	70.2	798	31.4	1800x800
P2D189	1783	70.2	898	35.4	1800x900
P2D1810	1783	70.2	998	39.3	1800x1000
P2D205	1983	78.1	498	19.6	2000x500
P2D206	1983	78.1	598	23.5	2000x600

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW (mm)
P2D207	1983	78.1	698	27.5	2000x700
P2D208	1983	78.1	798	31.4	2000x800
P2D2010	1983	78.1	998	39.3	2000x1000
P2D225	2183	85.9	498	19.6	2200x500
P2D226	2183	85.9	598	23.5	2200x600
P2D227	2183	85.9	698	27.5	2200x700
P2D228	2183	85.9	798	31.4	2200x800
P2D2210	2183	85.9	998	39.3	2200x1000



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Model	Component	Type	Height	Width*	Specialty		Catalog Number
P2	D	Blank	20	8	Blank	=	P2D208

Model: P2 = PROLINE G2

Component: D = Door

Type:
- Blank = single door
- O = overlapping double door
- W = window door, single, polycarbonate
- WG = window door, single, safety glass
- WO = window door, overlapping double, polycarbonate
- WOG = window door, overlapping double, safety glass
- A = side door adapter
- DR = disconnect right
- DL = disconnect left
- DR2 = disconnect right large cutout
- F = dress frame

Height: mm
22 = 2200
20 = 2000
18 = 1800
16 = 1600
14 = 1400
12 = 1200
10 = 1000
8 = 800
6 = 600

Width*: mm
18 = 1800
16 = 1600
12 = 1200
10 = 1000
9 = 900
8 = 800
7 = 700
6 = 600
5 = 500
4 = 400

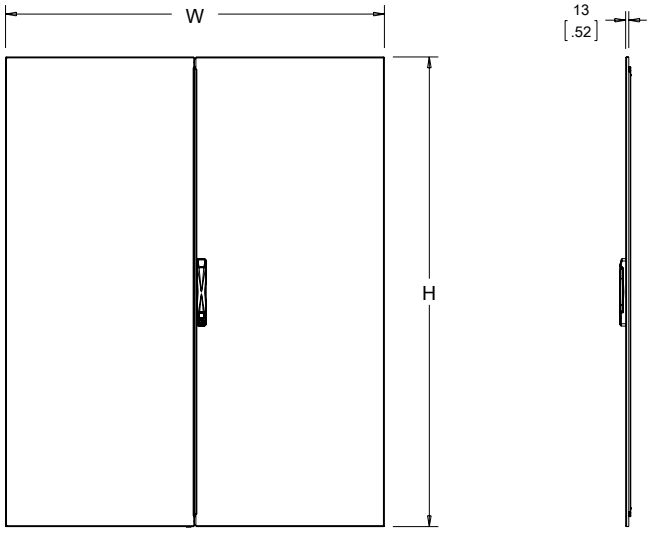
Specialty:
- Blank = standard
- HF = EMC protected

*Side Door Adapters use Depth instead of Width

NOTE: Not every combination is available as a standard product.

Standard Product **Overlapping Doors**

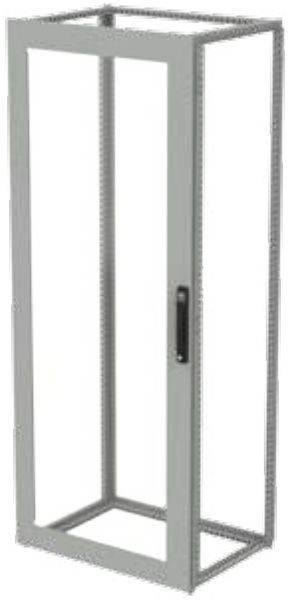
Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW mm	Description
P2D068	583	23.0	798	31.4	600x800	Painted
P2D088	783	30.8	798	31.4	800x800	Painted
P2D0108	983	38.7	798	31.4	1000x800	Painted
P2D01012	983	38.7	1198	47.2	1000x1200	Painted
P2D0128	1183	46.6	798	31.4	1200x800	Painted
P2D01212	1183	46.6	1198	47.2	1200x1200	Painted
P2D0148	1383	54.4	798	31.4	1400x800	Painted
P2D01412	1383	54.4	1198	47.2	1400x1200	Painted
P2D0168	1583	62.3	798	31.4	1600x800	Painted
P2D01612	1583	62.3	1198	47.2	1600x1200	Painted
P2D01616	1583	62.3	1598	62.9	1600x1600	Painted
P2D0188	1783	70.2	798	31.4	1800x800	Painted
P2D01810	1783	70.2	998	39.3	1800x1000	Painted
P2D01816	1783	70.2	1598	62.9	1800x1600	Painted
P2D01818	1783	70.2	1798	70.8	1800x1800	Painted
P2D0208	1983	78.1	798	31.4	2000x800	Painted
P2D02012	1983	78.1	1198	47.2	2000x1200	Painted
P2D02016	1983	78.1	1598	62.9	2000x1600	Painted
P2D02018	1983	78.1	1798	70.8	2000x1800	Painted
P2D0228	2183	85.9	798	31.4	2200x800	Painted
P2D02212	2183	85.9	1198	47.2	2200x1200	Painted
P2D02216	2183	85.9	1598	62.9	2200x1600	Painted
P2D02218	2183	85.9	1798	70.8	2200x1800	Painted



Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	D	O	20	10	Blank	=	P2DO2010
PROLINE G2	Door	Blank = single door O = overlapping double door W = window door, single, polycarbonate WG = window door, single, safety glass WO = window door, overlapping double, polycarbonate WOG = window door, overlapping double, safety glass A = side door adapter DR = disconnect right DL = disconnect left DR2 = disconnect right large cutout F = dress frame	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 12 = 1200 10 = 1000 8 = 800	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

WINDOW DOORS



APPLICATION

PROLINE G2 Window Doors can be used to enable viewing of electronic equipment. Featuring clean contemporary lines, they are available in clear safety glass or polycarbonate and include a standard door bar system for easy accessory attachment. The Smooth Glide latching system is made from high-quality components and features an innovative timed latch action which ensures a solid door seal with a low closure force.

FEATURES

- Safety glass or polycarbonate (for food and beverage applications)
- Smooth Glide latching system – for a smooth, reliable and repeatable door close over enclosure lifetime
- Clean contemporary design

SPECIFICATIONS

- Single Window doors available for frames up to 1000 mm wide
- 0.25 in. (6.35 mm) thick window to provide maximum protection and viewing area
- Standard door bar system on all window doors for easy accessories attachment
- Low-profile Swing Handle with key lock; other options available
- Seamless polyurethane gasket (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants
- Timed latch engagement to ensure top and bottom of door catch reliably
- Durable, double-flanged latch rod and three Delrin® rollers to prevent metal-on-metal grinding
- 3-point latch system for doors 1000mm or greater in height
- Doors can be hinged on left or right (default left)
- 14-degree hinging standard (180-degree hinge option available)
- Door can be reversed without removing the side covers
- Can be used on front or rear of the PROLINE G2 frame; can be used on the sides with side door adapter (not included)
- Two grounding studs
- All mounting hardware included

FINISH

- Clear safety glass or smoke-grey tinted polycarbonate
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

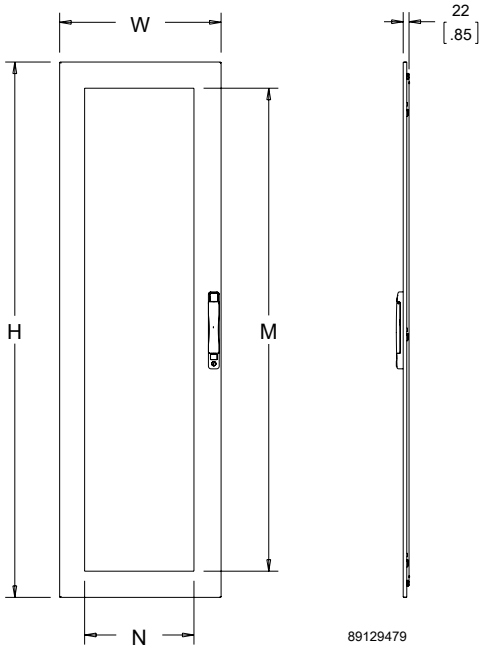
PROLINE Grounding Kit, page 550
Door Stop Kit, page 491
180-Degree Hinge Kit, page 492
Side Door Adapter, page 490
Flush Swing Handles, page 496
L Handle, page 496
Flush Bezels, page 496
Small Flush Swing Handle, page 497
Door Support Roller Kit, page 492

BULLETIN: P40

Standard Product **Window Door**

Catalog Number	H mm/in.	W mm/in.	M mm/in.	N mm/in.	Fits Frame HxW mm	Description
P2DW64	583 23.0	398 15.7	389 15.3	205 8.1	600x400	Polycarbonate window
P2DWG64	583 23.0	398 15.7	389 15.3	205 8.1	600x400	Safety glass window
P2DW66	583 23.0	598 23.5	389 15.3	405 15.9	600x600	Polycarbonate
P2DWG66	583 23.0	598 23.5	389 15.3	405 15.9	600x600	Safety glass window
P2DW68	583 23.0	798 31.4	389 15.3	605 23.8	600x800	Polycarbonate
P2DWG68	583 23.0	798 31.4	389 15.3	605 23.8	600x800	Safety glass window
P2DW86	783 30.8	598 23.5	589 23.2	405 15.9	800x600	Polycarbonate
P2DWG86	783 30.8	598 23.5	589 23.2	405 15.9	800x600	Safety glass window
P2DW88	783 30.8	798 31.4	589 23.2	605 23.8	800x800	Polycarbonate
P2DWG88	783 30.8	798 31.4	589 23.2	605 23.8	800x800	Safety glass window
P2DW106	983 39.0	598 23.5	789 31.1	405 15.9	1000x600	Polycarbonate
P2DWG106	983 39.0	598 23.5	789 31.1	405 15.9	1000x600	Safety glass window
P2DW108	983 39.0	798 31.4	789 31.1	605 23.8	1000x800	Polycarbonate
P2DWG108	983 39.0	798 31.4	789 31.1	605 23.8	1000x800	Safety glass window
P2DW126	1183 46.6	598 23.5	989 38.9	405 15.9	1200x600	Polycarbonate
P2DWG126	1183 46.6	598 23.5	989 38.9	405 15.9	1200x600	Safety glass window
P2DW128	1183 46.6	798 31.4	989 38.9	605 23.8	1200x800	Polycarbonate
P2DWG128	1183 46.6	798 31.4	989 38.9	605 23.8	1200x800	Safety glass window
P2DW146	1383 54.4	598 23.5	1189 46.8	405 15.9	1400x600	Polycarbonate
P2DWG146	1383 54.4	598 23.5	1189 46.8	405 15.9	1400x600	Safety glass window
P2DW148	1383 54.4	798 31.4	1189 46.8	605 23.8	1400x800	Polycarbonate
P2DWG148	1383 54.4	798 31.4	1189 46.8	605 23.8	1400x800	Safety glass window
P2DW166	1583 62.3	598 23.5	1389 54.7	405 15.9	1600x600	Polycarbonate
P2DWG166	1583 62.3	598 23.5	1389 54.7	405 15.9	1600x600	Safety glass window
P2DW168	1583 62.3	798 31.4	1389 54.7	605 23.8	1600x800	Polycarbonate
P2DWG168	1583 62.3	798 31.4	1389 54.7	605 23.8	1600x800	Safety glass window
P2DW184	1783 70.2	398 15.7	1589 62.6	205 8.1	1800x400	Polycarbonate
P2DWG184	1783 70.2	398 15.7	1589 62.6	205 8.1	1800x400	Safety glass window
P2DW186	1783 70.2	598 23.5	1589 62.6	405 15.9	1800x600	Polycarbonate
P2DWG186	1783 70.2	598 23.5	1589 62.6	405 15.9	1800x600	Safety glass window
P2DW188	1783 70.2	798 31.4	1589 62.6	605 23.8	1800x800	Polycarbonate
P2DWG188	1783 70.2	798 31.4	1589 62.6	605 23.8	1800x800	Safety glass window
P2DW1810	1783 70.2	998 39.2	1589 62.6	805 31.7	1800x1000	Polycarbonate
P2DWG1810	1783 70.2	998 39.2	1589 62.6	805 31.7	1800x1000	Safety glass window
P2DW204	1983 78.1	398 15.7	1789 70.4	205 8.1	2000x400	Polycarbonate
P2DWG204	1983 78.1	398 15.7	1789 70.4	205 8.1	2000x400	Safety glass window
P2DW206	1983 78.1	598 23.5	1789 70.4	405 15.9	2000x600	Polycarbonate
P2DWG206	1983 78.1	598 23.5	1789 70.4	405 15.9	2000x600	Safety glass window

Catalog Number	H mm/in.	W mm/in.	M mm/in.	N mm/in.	Fits Frame HxW mm	Description
P2DW208	1983 78.1	798 31.4	1789 70.4	605 23.8	2000x800	Polycarbonate
P2DWG208	1983 78.1	798 31.4	1789 70.4	605 23.8	2000x800	Safety glass window
P2DW2010	1983 78.1	998 39.2	1789 70.4	805 31.7	2000x1000	Polycarbonate
P2DWG2010	1983 78.1	998 39.2	1789 70.4	805 31.7	2000x1000	Safety glass window
P2DW226	2183 85.9	598 23.5	1989 78.3	405 15.9	2200x600	Polycarbonate
P2DWG226	2183 85.9	598 23.5	1989 78.3	405 15.9	2200x600	Safety glass window
P2DW228	2183 85.9	798 31.4	1989 78.3	605 23.8	2200x800	Polycarbonate
P2DWG228	2183 85.9	798 31.4	1989 78.3	605 23.8	2200x800	Safety glass window
P2DW2210	2183 85.9	998 39.2	1989 78.3	805 31.7	2200x1000	Polycarbonate
P2DWG2210	2183 85.9	998 39.2	1989 78.3	805 31.7	2200x1000	Safety glass window



Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	D	W	20	8	Blank	=	P2DW208
PROLINE G2	Door	Blank = single door O = overlapping double door W = window door, single, polycarbonate WG = window door, single, safety glass WO = window door, overlapping double, polycarbonate WOG = window door, overlapping double, safety glass A = side door adapter DR = disconnect right DL = disconnect left DR2 = disconnect right large cutout F = dress frame	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

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DISCONNECT DOORS

APPLICATION

PROLINE G2 Disconnect Doors include a hinged mullion with a cutout which accommodates a wide variety of flange-mount disconnect devices, and an interlock system from the enclosure doors to the disconnect mullion. A hinged disconnect mullion provides unobstructed access to the interior and maximum access to the Full Mounting Subpanel (Mounting Plate).

FEATURES

- Interlock from enclosure doors to mullion
- Includes a hinged mullion with a cutout, which accommodates a wide variety of flange-mount disconnect devices
- Standard options: right standard cutout, right large cutout, left standard cutout
- Mullion is opened via two quarter-turn cams

SPECIFICATIONS

- Integrated interlock system from the doors to the disconnect mullion
- Interlock must be defeated to unlock either door
- The primary door must be in the open position to open the secondary door
- The primary door must be in the open position to open mullion
- Right-hand disconnects have the mullion on the right; left-hand disconnects have the mullion on the left
- Doors swing to the left for right-hand disconnects; doors swing to the right for left-hand disconnects
- Two-door disconnect packages (if used) have a center mullion, and both doors swing in the same direction (not overlapping)
- A low profile flush swing handle with key lock (other options available) operates an internal 3-point latch system on the door
- Door bar system on all doors (not on disconnect mullion)
- Doors are 14 gauge (1.65 mm), mild steel with Smooth Glide Latching system for a solid seal with a low closure force
- Two grounding studs on each door
- The disconnect mullion and doors include 140-degree hinges and are gasketed to maintain enclosure integrity
- Seamless polyurethane gasket (UL component recognized, CSA compliant) provides a water-tight, dust-tight seal against moisture and contaminants
- Removable door bars on doors (not on mullion)
- Standard right or left cutouts will accept the following types of flange-mounted disconnect devices:
  - Allen-Bradley (Bulletin 1494V disconnect switches with flange-mounted, variable-depth operating mechanisms, Bulletin 1494V flange-mounted variable-depth operating mechanisms for circuit breakers and 140U flexible cable operating mechanisms for 140U molded case circuit breakers)
  - ABB Controls (Disconnect switches up to 200 amp and operators for ABB circuit breakers up to 800 amp)
  - Eaton Cutler-Hammer (variable-depth disconnect switches up to 200 amp, operators for circuit breakers up to 600 amp, and FLEX SHAFT® handle mechanisms for circuit breakers)
  - General Electric (Type TDA variable-depth mechanisms for disconnect switches up to 200 amp, and operator mechanisms or SPECTRA FLEX® cable operator for circuit breakers up to 600 amp)
  - Siemens ITE (MAX-FLEX flange-mounted, variable-depth operating handle for disconnect switches and circuit breakers as well as some fixed-depth operators for disconnect switches
  - Schneider Square D (Class 9422 disconnect switches =200 amp with variable-depth or cable mechanisms for 30, 60 or 100 amp, and circuit breakers with variable-depth operators or cable mechanisms up to 400 amp)
- Right large cutout with a larger cutout for use with the following higher amp disconnect switches:
  - Allen-Bradley 1494V-H2 handle used with 400 amp or 600 amp Allen-Bradley disconnect switches
  - Siemens ITE MAX-FLEX FHOHN handle used with MD 800 amp, ND (1200amp), PD (1600 amp) and RD (2000 amp)

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

PROLINE Grounding Kit, page 550
Door Stop Kit, page 491
180-Degree Hinge Kit, page 492
Side Door Adapter, page 490
Steel Data Pocket, page 495
Thermoplastic Data Pocket, page 494
Door Bar Grid Straps, page 495
Door Support Roller Kit, page 492

BULLETIN: P40

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Standard Product

Catalog Number	Fits Frame HxW (mm)	Height (mm)	Height (in.)	Width (mm)	Width (in.)	No. of Doors	Type	Cut-out
P2DDR168	1600x800	1583	62.3	798	31.4	1	Right Mullion	Standard
P2DDL168	1600x800	1583	62.3	798	31.4	1	Left Mullion	Standard
P2DDRL168	1600x800	1583	62.3	798	31.4	1	Right Mullion	Large
P2DDR1610	1600x1000	1583	62.3	998	39.3	1	Right Mullion	Standard
P2DDL1610	1600x1000	1583	62.3	998	39.3	1	Left Mullion	Standard
P2DDRL1610	1600x1000	1583	62.3	998	39.3	1	Right Mullion	Large
P2DDR1612	1600x1200	1583	62.3	1198	47.2	2	Right Mullion	Standard
P2DDL1612	1600x1200	1583	62.3	1198	47.2	2	Left Mullion	Standard
P2DDRL1612	1600x1200	1583	62.3	1198	47.2	2	Right Mullion	Large
P2DDR1616	1600x1600	1583	62.3	1598	62.9	2	Right Mullion	Standard
P2DDL1616	1600x1600	1583	62.3	1598	62.9	2	Left Mullion	Standard
P2DDRL1616	1600x1600	1583	62.3	1598	62.9	2	Right Mullion	Large
P2DDR188	1800x800	1783	70.2	798	31.4	1	Right Mullion	Standard
P2DDL188	1800x800	1783	70.2	798	31.4	1	Left Mullion	Standard
P2DDRL188	1800x800	1783	70.2	798	31.4	1	Right Mullion	Large
P2DDR1810	1800x1000	1783	70.2	998	39.3	1	Right Mullion	Standard
P2DDL1810	1800x1000	1783	70.2	998	39.3	1	Left Mullion	Standard
P2DDRL1810	1800x1000	1783	70.2	998	39.3	1	Right Mullion	Large
P2DDR1812	1800x1200	1783	70.2	1198	47.2	2	Right Mullion	Standard
P2DDL1812	1800x1200	1783	70.2	1198	47.2	2	Left Mullion	Standard
P2DDRL1812	1800x1200	1783	70.2	1198	47.2	2	Right Mullion	Large
P2DDR1816	1800x1600	1783	70.2	1598	62.9	2	Right Mullion	Standard
P2DDL1816	1800x1600	1783	70.2	1598	62.9	2	Left Mullion	Standard
P2DDRL1816	1800x1600	1783	70.2	1598	62.9	2	Right Mullion	Large
P2DDR1818	1800x1800	1783	70.2	1798	70.8	2	Right Mullion	Standard
P2DDL1818	1800x1800	1783	70.2	1798	70.8	2	Left Mullion	Standard
P2DDRL1818	1800x1800	1783	70.2	1798	70.8	2	Right Mullion	Large
P2DDR208	2000x800	1983	78.1	798	31.4	1	Right Mullion	Standard
P2DDL208	2000x800	1983	78.1	798	31.4	1	Left Mullion	Standard
P2DDRL208	2000x800	1983	78.1	798	31.4	1	Right Mullion	Large
P2DDR2010	2000x1000	1983	78.1	998	39.3	1	Right Mullion	Standard
P2DDL2010	2000x1000	1983	78.1	998	39.3	1	Left Mullion	Standard
P2DDRL2010	2000x1000	1983	78.1	998	39.3	1	Right Mullion	Large
P2DDR2012	2000x1200	1983	78.1	1198	47.2	2	Right Mullion	Standard
P2DDL2012	2000x1200	1983	78.1	1198	47.2	2	Left Mullion	Standard
P2DDRL2012	2000x1200	1983	78.1	1198	47.2	2	Right Mullion	Large
P2DDR2016	2000x1600	1983	78.1	1598	62.9	2	Right Mullion	Standard
P2DDL2016	2000x1600	1983	78.1	1598	62.9	2	Left Mullion	Standard
P2DDRL2016	2000x1600	1983	78.1	1598	62.9	2	Right Mullion	Large
P2DDR2018	2000x1800	1983	78.1	1798	70.8	2	Right Mullion	Standard
P2DDL2018	2000x1800	1983	78.1	1798	70.8	2	Left Mullion	Standard
P2DDRL2018	2000x1800	1983	78.1	1798	70.8	2	Right Mullion	Large
P2DDR228	2200x800	2183	85.9	798	31.4	1	Right Mullion	Standard
P2DDL228	2200x800	2183	85.9	798	31.4	1	Left Mullion	Standard
P2DDRL228	2200x800	2183	85.9	798	31.4	1	Right Mullion	Large
P2DDR2210	2200x1000	2183	85.9	998	39.3	1	Right Mullion	Standard
P2DDL2210	2200x1000	2183	85.9	998	39.3	1	Left Mullion	Standard
P2DDRL2210	2200x1000	2183	85.9	998	39.3	1	Right Mullion	Large
P2DDR2212	2200x1200	2183	85.9	1198	47.2	2	Right Mullion	Standard
P2DDL2212	2200x1200	2183	85.9	1198	47.2	2	Left Mullion	Standard
P2DDRL2212	2200x1200	2183	85.9	1198	47.2	2	Right Mullion	Large
P2DDR2216	2200x1600	2183	85.9	1598	62.9	2	Right Mullion	Standard
P2DDL2216	2200x1600	2183	85.9	1598	62.9	2	Left Mullion	Standard
P2DDRL2216	2200x1600	2183	85.9	1598	62.9	2	Right Mullion	Large
P2DDR2218	2200x1800	2183	85.9	1798	70.8	2	Right Mullion	Standard
P2DDL2218	2200x1800	2183	85.9	1798	70.8	2	Left Mullion	Standard
P2DDRL2218	2200x1800	2183	85.9	1798	70.8	2	Right Mullion	Large

HxW dimensions are in mm.

Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	D	DR	20	10	Blank	=	P2DDR2010
PROLINE G2	Door	DR = disconnect right DL = disconnect left DR2 = disconnect right large cutout	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 12 = 1200 10 = 1000 8 = 800	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

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SIDE DOOR ADAPTER

APPLICATION

PROLINE G2 Side Door Adapters allow the mounting of a standard door to the side of the enclosure. When mounted to the enclosure, they maintain enclosure environmental integrity.

SPECIFICATIONS

- 14 gauge (1.75 mm) steel
- All mounting hardware included

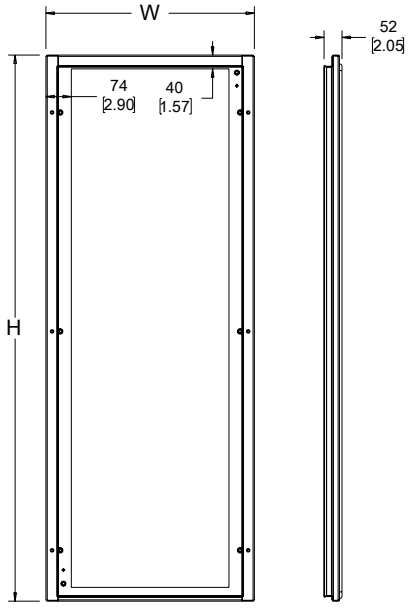
FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Standard Product

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW (mm)
P2DA125	1183	46.6	504	19.8	1200 x 500
P2DA126	1183	46.6	604	23.8	1200 x 600
P2DA128	1183	46.6	804	31.7	1200 x 800
P2DA145	1383	54.4	504	19.8	1400 x 500
P2DA148	1383	54.4	804	31.7	1400 x 800
P2DA164	1583	62.3	404	15.9	1600 x 400
P2DA165	1583	62.3	504	19.8	600 x 500
P2DA166	1583	62.3	604	23.8	1600 x 600
P2DA168	1583	62.3	804	31.7	1600 x 800
P2DA184	1783	70.2	404	15.9	1800 x 400
P2DA185	1783	70.2	504	19.8	1800 x 500
P2DA186	1783	70.2	604	23.8	1800 x 600
P2DA188	1783	70.2	804	31.7	1800 x 800
P2DA204	1983	78.1	404	15.9	2000 x 400
P2DA205	1983	78.1	504	19.8	2000 x 500
P2DA206	1983	78.1	604	23.8	2000 x 600
P2DA208	1983	78.1	804	31.7	2000 x 800
P2DA2010	1983	78.1	1004	39.5	2000 x 1000
P2DA225	2183	85.9	504	19.8	2200 x 500
P2DA226	2183	85.9	604	23.8	2200 x 600
P2DA228	2183	85.9	804	31.7	2200 x 800
P2DA2210	2183	85.9	1004	39.5	2200 x 1000



Model	Component	Type	Height	Depth	Specialty		Catalog Number
P2	D	A	20	6	Blank	=	P2DA206
PROLINE G2	Door	Blank = single door O = double door W = window door A = side door adapter DR = disconnect right DL = disconnect left DR2 = disconnect right large cutout F = dress frame	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

DOOR STOP KIT

APPLICATION

The Door Stop Kit is used for modular enclosures and holds doors open at 130 degrees.

FEATURES

- High-performance, 3/8-in. (9.5 mm) aluminum stop arm
- DELRIN® gliders for smooth actuation
- BV-M6 fasteners to attach the door stop to the frame and door

SPECIFICATIONS

- 10 gauge (3.0 mm) steel slotted slider bracket
- Mounts without drilling
- Kit includes a slotted slider bracket that mounts to the top or bottom of the door and a stop arm that attaches to the frame
- All necessary mounting hardware included

BULLETIN: P40

Catalog Number	Description
P2ADSK	PROLINE G2 Door Stop Kit

180-DEGREE HINGE KIT

Hinge option for modular enclosure doors to provide up to a 260-degree door opening on single-door enclosures.

BULLETIN: P40

Catalog Number	Description
P2AH180	PROLINE G2 180-Degree Hinge Kit

REMOTE DOOR SWITCHES

- The remote door switch can activate a light or other electrical component when the enclosure door is opened
- Mounts on enclosure frame and includes mounting hardware
- Mounting plate is 14 gauge steel with a plated finish
- Can be hard-wired to the PANELITE LED or Fluorescent light or connected via the PANELITE Door Switch Cable

BULLETIN: A80LT, P20

Catalog Number	Description
ALFSWD	Door switch assembly (order connection cable separately)
PLFSWD	Door switch assembly for PROLINE and PROLINE G2 (order connection cable separately)

TOUCH-SAFE UL LIGHT SWITCH

APPLICATION

The Touch-Safe light switch is designed to be used with Hoffman light kits (AC and DC). It provides a UL listed touch-safe switch that can be used on many enclosure types and includes hardware for most applications. The light switch maintains enclosure overall rating up to UL 508A Type 4X or 12.

FEATURES

- UL listed for a touch-safe wire connection
- Easily mounted to various enclosure types; common bracket and hardware included for many enclosure types (NEMA, CONCEPT/FUSION G7, PROLINE, Free-Stand Type 12)
- Cable PG compression hub
- Wide operating temperature range: -49°F to +158°F (-45°C to 70°C)
- Rugged die-cast anodized zinc construction
- Connection 3 cage clamps for solid and stranded wire AWG 20-14 (0.5-2.5mm²)
- Protection class I (grounded)

BULLETIN: A80LT

Catalog Number	Max. Cable Dia.	Max. Voltage
LDSWITCH	.375 in.	250 AC / 48 DC

DOOR SUPPORT ROLLER KIT

The PROLINE G2 Door Support Roller Kit supports and aligns heavy doors. It is suitable for all solid and window doors.

BULLETIN: P40

Catalog Number	Description
P2ADRK	PROLINE G2 Door Support Roller Kit

ELECTRICAL INTERLOCK

INDUSTRY STANDARDS

UL Component Recognized

CSA Certified

APPLICATION

Provides positive internal safety lockout on electrical enclosures while the equipment is energized. Catalog numbers AEK115, AEK230 and AEK460 are used with standard Hoffman door latching mechanisms. When energized, these interlocks prevent the door handle from being turned to open the door. The interlock fits either clockwise or counterclockwise handles in the following enclosures:

1. All two-door Type 4 and 12 enclosures
2. All Type 4X with 3-point latch enclosures
3. Free-stand Type 12 enclosures
4. All single-door Type 12 enclosures with latch kits installed

The above interlocks will fit the following enclosures, but modifications are required. Consult the factory for more information.

1. Two-Door Enclosures for Flange-Mounted Disconnects, Type 12
2. Heavy Duty Free-Stand Enclosures for Flange-Mounted Disconnects, Type 12
3. Modular Enclosures for Flange-Mounted Disconnects, Type 12
4. Multi-Door Enclosures, Type 12

The interlocks will also fit most Hoffman custom enclosures with door latching mechanisms similar to the mechanisms used on the preceding enclosures.

Non-NDH style electrical interlocks will not fit CONCEPT Enclosures or Bulletin A25 and A26 Enclosures. Interlocks are not designed to be used in place of the standard door or cover latch. Catalog numbers AEK115NDH, AEK230NDH and AEK460NDH are designed to be used on some Hoffman enclosures and boxes which have exterior latching only. When energized, these interlocks will prevent the enclosure door from being opened. They fit on the door or cover of the following enclosures:

1. One-door Type 4 and 4X enclosures
2. Two-door Type 4 and 4X enclosures
3. One-door Type 12 enclosures
4. Larger sizes of junction boxes
5. Type 1 and large Type 1 enclosures

The above interlocks also fit in most Hoffman custom enclosures and boxes which have doors or covers hinged similar to doors or covers on the preceding enclosures.

Installation

Interlock mounts on bracket attached to door bar on inside of enclosure door.

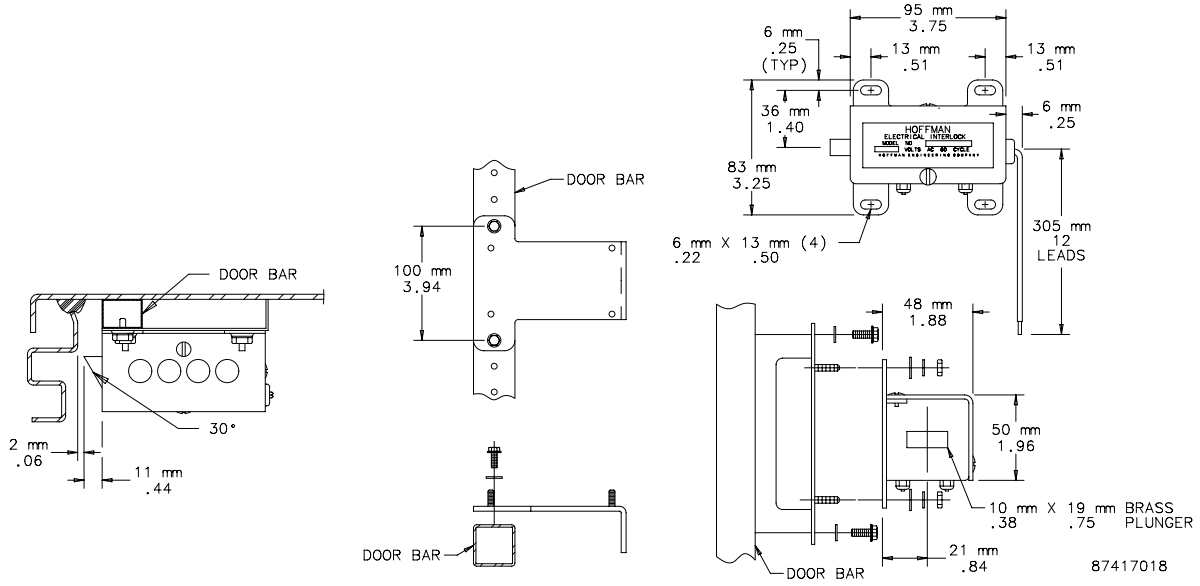
SPECIFICATIONS

- Rugged steel construction and plated finish. Solenoids are rated for continuous duty and will stand up under heavy industrial use.
- Packaged complete with a solenoid assembly, mounting bracket and instructions for field installation.

Door handles and latching mechanisms are not included.

BULLETIN: P20DC

Catalog Number	A @ 120 V/60 Hz Normal/Inrush	A @ 240 V/60 Hz Normal/Inrush	A @ 480 V/60 Hz Normal/Inrush	A @ 110 V/50 Hz Normal/Inrush	A @ 220 V/50 Hz Normal/Inrush	A @ 440 V/50 Hz Normal/Inrush
PEK115NDH	.100/.63			.120/.69		
PEK230NDH		.050/.32			.060/.35	
PEK460NDH			.025/.16			.030/.18



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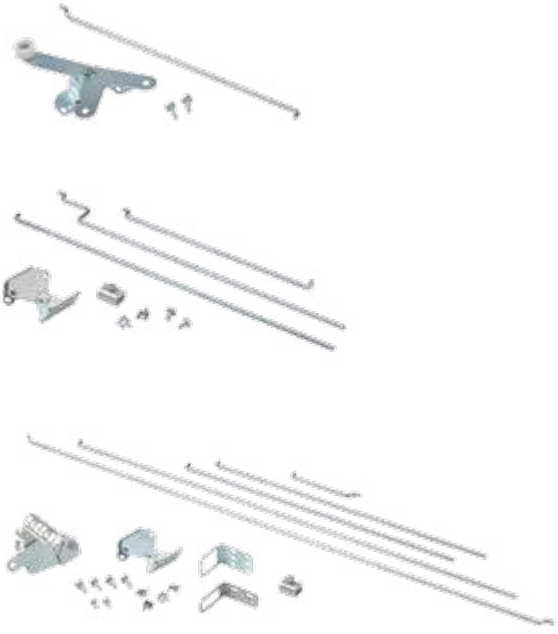
PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

MECHANICAL INTERLOCK



Mechanical Interlock
The PROLINE and PROLINE G2 Mechanical Interlock can be actuated by any PROLINE or PROLINE G2 solid or disconnect door in a multiple-bay enclosure system. Up to ten doors, including window doors, can be interlocked.
The interlock device engages the door at the center to provide maximum security. The master door can be positioned in any location. Only after the master door is opened can slave doors be opened. The interlock system is modular and easy to assemble; no drilling or layout work is required to install. Brackets, rods and fasteners are heavy gauge steel. Meets interlocking requirements established by General Motors, Ford and Chrysler.

Front-to-Back Interlock
The Front-to-Back Interlock is used to interlock the rear doors of an enclosure in conjunction with a Master Door Actuator Kit and a Slave Door Kit. When the Master Door Actuator Kit on the front of the enclosure is activated (by a solid or disconnect master door) and the Front-to-Back Kit linkage is in place, the pivot bracket is pulled, which activates the Slave Door Kit to interlock the back doors of the enclosure with the front doors.

BULLETIN: P20

Catalog Number	Description
PMLMAK	Master Door Activator Kit
PMLSK	Door Slave Kit
PMLEK	Extension Kit
PMLFB	Front-to-Back Kit

For Catalog No. PMLMAK, order 1 for master door.

For Catalog No. PMLSK, order 1 for each slave door (will accommodate single door, window door and overlapping door).

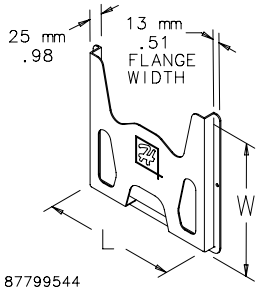
THERMOPLASTIC DATA POCKET

APPLICATION
Provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure.

SPECIFICATIONS
- Adhesive-backed pockets mount inside the solid enclosure cover
- Mounting hardware included
- Thermoplastic pockets are dark gray and have cut-away areas for easy inspection of contents

BULLETIN: A80DP

Catalog Number	Description	L mm/in.	W mm/in.
ADP1	Small Thermoplastic Data Pocket	152 6.0	152 6.0
ADP2	Large Thermoplastic Data Pocket	305 12.0	305 12.0



STEEL DATA POCKET

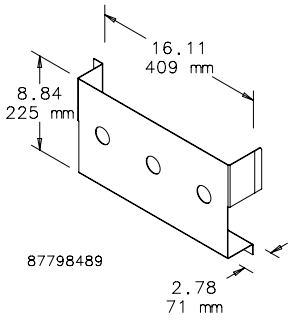
APPLICATION
Provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure.

SPECIFICATIONS
- Steel Data Pocket fastens to the bottom of the door
- Door Bar Grid Straps (purchased separately) must be used to change the vertical mounting position of the data pocket

FINISH
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Catalog Number	Description
P2ADPS1	Steel Data Pocket



FOLDING SHELF

APPLICATION
The folding shelf can be used on the exterior or the interior of a door to provide a convenient surface for computers, tools or paperwork.

SPECIFICATIONS
- Mounts to door using Door Bar Grid Straps (sold separately)
- Locks in two positions - 90 degrees as a shelf and 15 degrees as a writing surface.
- Holds up to 30lb (13.6kg)
- 16 gauge steel with 12 gauge brackets

FINISH
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P20

Catalog Number	Description
PSHDM	Fits door widths 600, 700, 800 and 1000 mm

DOOR BAR GRID STRAPS

APPLICATION
The PROLINE G2 Door Bar Grid Straps are used to mount accessories to the door.

SPECIFICATIONS
- Straps mount to the door bar
- Load rating: 100 lbs (45.4 kg)
- 16 gauge (1.5 mm), mild steel

FINISH
- Plated

BULLETIN: P40

Catalog Number	W mm/in.	Fits Frame Width mm
P2GD4	308 12.1	400
P2GD5	408 16.1	500
P2GD6	508 20.0	600
P2GD7	608 23.9	700
P2GD8	708 27.9	800
P2GD9	808 31.8	900
P2GD10	908 35.7	1000

Frame Width dimensions are nominal mm.

FLUSH SWING HANDLES

Flush Handles are optional for any solid, window or disconnect door greater than 600mm in height, except Voice/Data and Colocation cabinets. They are ergonomically designed to provide style and function in a low profile. The handle is die-cast zinc finished with RAL 9005 textured black polyester powder paint. Provision to add your logo is included. Handle can be installed to rotate either clockwise or counterclockwise.

Handle with Screwdriver Defeater
Enclosure security is provided by the integrated tool-to-open feature that releases the handle when rotated, allowing access to the enclosure.
Handle with Keylock
Keylock feature locks the handle to provide security for the enclosure. When the key is in the unlocked position, the pushbutton releases the handle to provide access to the enclosure. Two keys are furnished.
Handle for Padlock
Padlocking Handle provides security when using up to a 5/16-in. padlock shackle. Pushbutton releases the handle to provide access to the enclosure.
Handle with DIN Profile Provision
DIN Flush Handle is provided with the option to add your DIN profile lock or to accept Hoffman DIN profile lock PDKL (order separately).

BULLETIN: P20

Catalog Number	Description
PFHDF	Flush Handle with Defeater
PFHKBL	Keylocking Flush Handle
PFHPBL	Padlocking Flush Handle
PFHDBL	DIN Profile Flush Handle

L HANDLE

The L Handle is a stylish option for any solid, window or disconnect door, except Voice/Data or Colocation cabinets. It can be installed to rotate either clockwise or counterclockwise. Handle comes with a bezel, includes keylocking provision and is finished with RAL 9005 textured black polyester powder paint. Two keys are included. The bezel permits your logo to be inserted.

BULLETIN: P20

Catalog Number	Description
PLHK	L Handle with 2 keys and logo slot, key code 333

FLUSH BEZELS

Bezel with Insert
Can be used on any solid, window or disconnect door when a low-profile, tool-to-open operating mechanism is needed. Bezel is RAL 9005 textured black plastic. Provision to add your logo is included. Flush bezels are provided with screwdriver slot insert. Other key inserts are available to fit the flush bezel (order separately).
Small Bezel with Insert
Can be used in place of the small Flush Swing Handle when a low-profile, tool-to-open operating mechanism is needed. Bezel is RAL 9005 textured black plastic. Provision to add your logo is included. Small flush bezels are furnished with a screwdriver slot insert. Other key inserts are available to fit the small flush bezel (order separately).

BULLETIN: P20, P20S

Catalog Number	Description
PFBS	Flush Bezel with Insert
PSFBS	Small Flush Bezel with Insert
PFBSSS	Large Flush Bezel with Stainless Steel Insert

SMALL FLUSH SWING HANDLE

Small Flush Swing Handles are used on smaller doors (doors less than 800mm in height that have two-point latching). Handles are ergonomically designed to provide style and function in a low profile. They can be installed to rotate either clockwise or counterclockwise. The shape of the design provides aesthetic compatibility with the Flush Swing Handles. This handle includes keylocking provision, two keys, provision to add your logo and is furnished in RAL 9005 textured black polyester powder paint.

BULLETIN: P20

Catalog Number	Description
PSHKBL	One handle and two keys

KEY INSERTS

Key Inserts are used with Flush Bezels. Optional for any solid, window and disconnect door. Key Inserts are zinc die-cast. A matching key is included.

BULLETIN: P20, P20S

Catalog Number	Description
PKOTM7	7-mm triangle
PKOTM8	8-mm triangle
PKOTM65	CNOMO
PKOSM7	7-mm square
PKOSM8	8-mm square
PKODBK3	Double-bit with 3-mm pin
PKODBK3SS	Double-bit insert

PADLOCK KIT

The kit adds a padlocking capability to any of the Flush Swing Handles (except for Small Flush Swing Handle). Field modification of the flush handle is required. Includes a stainless steel locking post that will accommodate up to a 5/16-in. padlock shackle.

BULLETIN: P20

Catalog Number	Description
PFHPK	Padlock Kit

DIN LOCK INSERTS (FOR DIN PROFILE HANDLE ONLY)

The DIN profile keylock provides keylocking security for the Flush Swing Handle with DIN provision. Includes profile lock and two keys. Order one profile lock for each handle.
DIN Lock Kit for PROLINE DataCom doors includes two locks keyed alike with one of 100 different key codes and two keys (master key available).
All DIN Lock Inserts are zinc die-cast.

BULLETIN: DPY, P20

Catalog Number	Description
PKOSLFH	Slotted insert profile cylinder
PKOTM7FH	7-mm triangle insert profile cylinder
PKOSM7FH	7-mm square insert profile cylinder
PKOTM8FH	8-mm triangle insert profile cylinder
PKODBK3FH	Double-bit 3-mm insert profile cylinder
PDKL	DIN keylock, 2 keys included, key code 333
PDKLRKPR	DIN Lock Kit for PROLINE DataCom doors

DIN profile inserts are used with DIN flush swing handles. One key is included (except for slotted insert).

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SIDE COVER

SPECIFICATIONS

- Attach to enclosure frame with low-profile, flat head screws
- Door can be reversed without removing the side covers
- Used on the sides of the PROLINE G2 frame
- Depths greater than 800 mm are 14 gauge (1.75 mm) mild steel; depths less than or equal to 800 mm are 16 gauge (1.5 mm)
- Not suitable as a barrier between enclosures (instead use the PROLINE G2 barrier panel)
- Two grounding studs
- All mounting hardware included

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

- 300/136kg, safety factor 1.5; frame size: 2000x600x800 mm (load ratings vary by frame size)

ACCESSORIES

Support Bracket Kit, page 512

BULLETIN: P40

APPLICATION

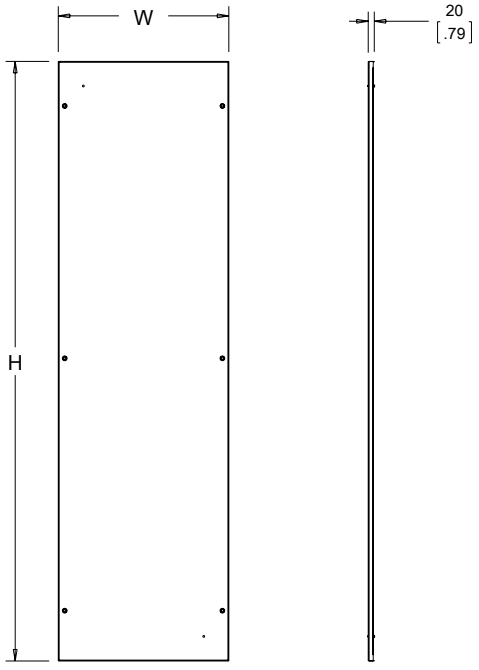
PROLINE G2 Solid Sides enclose the open sides of the modular enclosure frame and have innovative design elements incorporated to ensure fast installation and enhanced structural support.

FEATURES

- Hinge hanger on top for easy alignment
- Formed steel hems on the sides of the covers for enhanced structural support and to protect user from sharp edges
- Seamless polyurethane gasket (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants

Standard Product

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Gauge	Fits Frame HxW (mm)
P2CS64	583	23.0	364	14.3	16	600x400
P2CS66	583	23.0	564	22.2	16	600x600
P2CS68	583	23.0	764	30.1	16	600x800
P2CS84	783	30.8	364	14.3	16	800x400
P2CS86	783	30.8	564	22.2	16	800x600
P2CS88	783	30.8	764	30.1	16	800x800
P2CS104	983	38.7	364	14.3	16	1000x400
P2CS105	983	38.7	464	18.3	16	1000x500
P2CS106	983	38.7	564	22.2	16	1000x600
P2CS108	983	38.7	764	30.1	16	1000x800
P2CS124	1183	46.6	364	14.3	16	1200x400
P2CS125	1183	46.6	464	18.3	16	1200x500
P2CS126	1183	46.6	564	22.2	16	1200x600
P2CS128	1183	46.6	764	30.1	16	1200x800
P2CS145	1383	54.4	464	18.3	16	1400x500
P2CS146	1383	54.4	564	22.2	16	1400x600
P2CS164	1583	62.3	364	14.3	16	1600x400
P2CS165	1583	62.3	464	18.3	16	1600x500
P2CS166	1583	62.3	564	22.2	16	1600x600
P2CS168	1583	62.3	764	30.1	16	1600x800
P2CS184	1783	70.2	364	14.3	16	1800x400
P2CS185	1783	70.2	464	18.3	16	1800x500
P2CS186	1783	70.2	564	22.2	16	1800x600
P2CS204	1983	78.1	364	14.3	16	2000x400
P2CS205	1983	78.1	464	18.3	16	2000x500
P2CS206	1983	78.1	564	22.2	16	2000x600
P2CS2010	1983	78.1	964	38.0	14	2000x1000
P2CS224	2183	85.9	364	14.3	16	2200x400
P2CS225	2183	85.9	464	18.3	16	2200x500
P2CS226	2183	85.9	564	22.2	16	2200x600
P2CS2210	2183	85.9	964	38.0	14	2200x1000



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Model	Component	Type	Height	Depth	Specialty		Catalog Number
P2	C	S	20	6	Blank	=	P2CS206
PROLINE G2	Cover	Blank = cover S = side cover B = barrier panel	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

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SOLID COVER (FRONT OR REAR)

APPLICATION

Covers on the front or rear of the enclosure frame can substitute for a door, and they have innovative design elements incorporated to ensure fast installation and enhanced structural support.

FEATURES

- Hinge hanger on top for easy alignment
- Formed steel hems on the sides of the covers for enhanced structural support and to protect user from sharp edges
- Seamless, polyurethane gasket (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants

SPECIFICATIONS

- Attach to enclosure frame with low-profile, flat head screws
- Used on the front or rear of the PROLINE G2 frame
- Widths greater than 600 mm are 14 gauge (1.75 mm) mild steel; widths less than or equal to 600 mm are 16 gauge (1.5 mm)
- Not suitable as a barrier between enclosures (instead use the PROLINE G2 Barrier Panel)
- Two grounding studs
- All mounting hardware included

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

- 300/136kg, safety factor 1.5; frame size: 2000x600x800 mm (load ratings vary by frame size)

ACCESSORIES

Support Bracket Kit, page 512

BULLETIN: P40

Standard Product

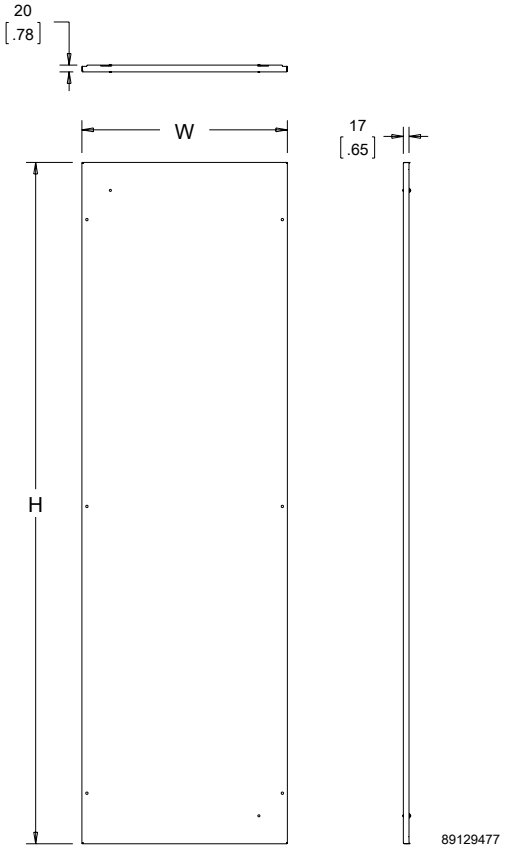
Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Gauge	Fits Frame Height x Width mm
P2C64	583	23.0	398	15.7	16	600x400
P2C66	583	23.0	598	23.5	16	600x600
P2C68	583	23.0	789	31.4	14	600x800
P2C86	783	30.8	598	23.5	16	800x600
P2C88	783	30.8	798	31.4	14	800x800 800x1600 (qty 2)
P2C106	983	38.7	598	23.5	16	1000x600
P2C108	983	38.7	798	31.4	14	1000x800 1000x1600 (qty 2)
P2C1012	983	38.7	1198	47.2	14	1000X1200
P2C126	1183	46.6	598	23.5	16	1200x600
P2C128	1183	46.6	798	31.4	14	1200x800 1200x1600 (qty 2)
P2C1212	1183	46.6	1198	47.2	14	1200X1200
P2C146	1383	54.4	598	23.5	16	1400x600
P2C1412	1383	54.5	1198	47.2	14	1400X1200
P2C165	1583	62.3	498	19.6	16	1600x500
P2C166	1583	62.3	598	23.5	16	1600x600
P2C167	1583	62.3	698	27.5	14	1600x700 1600x1400 (qty 2)
P2C168	1583	62.3	798	31.4	14	1600x800 1600x1600 (qty 2)
P2C169	1583	62.3	898	35.4	14	1600x900 1600x1800 (qty 2)
P2C1610	1583	62.3	998	39.3	14	1600x1000
P2C1612	1583	62.3	1198	47.2	14	1600X1200
P2C184	1783	70.2	398	15.7	16	1800x400
P2C185	1783	70.2	498	19.6	16	1800x500
P2C186	1783	70.2	598	23.5	16	1800x600
P2C188	1783	70.2	798	31.4	14	1800x800 1800x1600 (qty 2)
P2C189	1783	70.2	898	35.4	14	1800x900 1800x1800 (qty 2)
P2C1810	1783	70.2	998	39.3	14	1800x1000

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Gauge	Fits Frame Height x Width mm
P2C204	1983	78.1	398	15.7	16	2000x400
P2C205	1983	78.1	498	19.6	16	2000x500
P2C206	1983	78.1	598	23.5	16	2000x600
P2C208	1983	78.1	798	31.4	14	2000x800 2000x1600 (qty 2)
P2C2010	1983	78.1	998	39.3	14	2000x1000
P2C2012	1983	78.1	1198	47.2	14	2000X1200
P2C225	2183	85.9	498	19.6	16	2000x500
P2C226	2183	85.9	598	23.5	16	2200x600
P2C228	2183	85.9	798	31.4	14	2200x800 2200x1600 (qty 2)
P2C2210	2183	85.9	998	39.3	14	2200x1000
P2C2212	2183	85.9	1198	47.2	14	2200X1200

Model	Component	Type	Height	Width/Depth*	Specialty		Catalog Number
P2	C	Blank	20	8	Blank	=	P2C208
PROLINE G2	Cover	Blank = cover S = side cover B = barrier panel	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	Blank = standard HF = EMC protected		

*Width used for covers; depth used for side covers and barrier pannels

NOTE: Not every combination is available as a standard product.



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BARRIER PANEL

APPLICATION

Barrier Panels are designed to be used as buffers between joined or ganged enclosure systems. When mounted to the enclosure, they maintain enclosure environmental integrity.

FEATURES

- Barrier between joined or ganged enclosure

SPECIFICATIONS

- 16 gauge steel
- All mounting hardware included

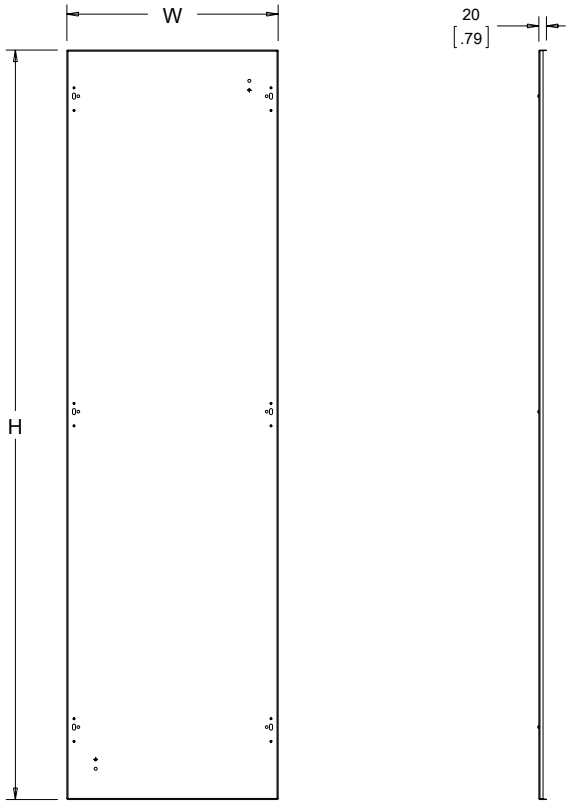
FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Standard Product

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW (mm)
P2CB125	1183	46.6	459	18.1	1200x500
P2CB126	1183	46.6	559	22.0	1200x600
P2CB128	1183	46.6	759	29.9	1200x800
P2CB145	1383	54.4	459	18.1	1400x500
P2CB148	1383	54.4	759	29.9	1400x800
P2CB164	1583	62.3	359	14.1	1600x400
P2CB165	1583	62.3	459	18.1	1600x500
P2CB166	1583	62.3	559	22.0	1600x600
P2CB168	1583	62.3	759	29.9	1600x800
P2CB184	1783	70.2	359	14.1	1800x400
P2CB185	1783	70.2	459	18.1	1800x500
P2CB186	1783	70.2	559	22.0	1800x600
P2CB188	1783	70.2	759	29.9	1800x800
P2CB204	1983	78.1	359	14.1	2000x400
P2CB205	1983	78.1	459	18.1	2000x500
P2CB206	1983	78.1	559	22.0	2000x600
P2CB208	1983	78.1	759	29.9	2000x800
P2CB2010	1983	78.1	959	37.8	2000x1000
P2CB225	2183	85.9	459	18.1	2200x500
P2CB226	2183	85.9	559	22.0	2200x600
P2CB228	2183	85.9	759	29.9	2200x800
P2CB2210	2183	85.9	959	37.8	2200x1000



Model	Component	Type	Height	Depth	Specialty		Catalog Number
P2	C	B	20	6	Blank	=	P2CB206
PROLINE G2	Cover	Blank = cover S = side cover B = barrier panel	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

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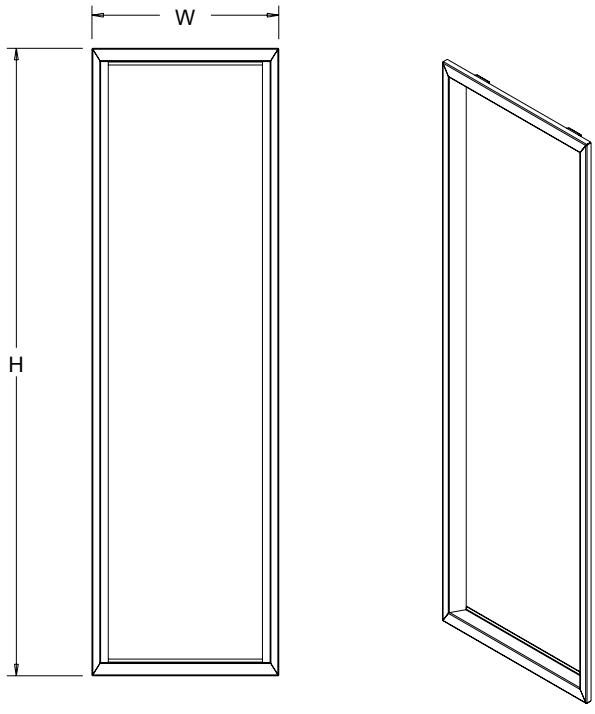
DRESS FRAME



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APPLICATION

A PROLINE G2 Dress Frame provides a decorative trim when a front door or cover is not used. It is frequently used for open rack applications.

SPECIFICATIONS

- Provides a clean, finished aesthetic for open rack applications
- Snap-in design for easy, tool-free installation

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

19-Inch Rack Angles, page 554
Rack Panels, page 559
Rack-Mount Fixed Shelf, page 564
Rack Mount Pull-Out Shelf, page 563
Guides, page 565
Slides, page 566
Rack-Angle Mounted Drawer, page 564
Writing Surface, page 564

BULLETIN: P40

Standard Product

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame Height x Width mm
P2DF126	1192	46.9	593	23.4	1200x600
P2DF146	1392	54.8	593	23.4	1400x600
P2DF148	1392	54.8	793	31.2	1400x800
P2DF166	1592	62.7	593	23.4	1600x600
P2DF168	1592	62.7	793	31.2	1600x800
P2DF186	1792	70.6	593	23.4	1800x600
P2DF188	1792	70.6	793	31.2	1800x800
P2DF206	1992	78.4	593	23.4	2000x600
P2DF208	1992	78.4	793	31.2	2000x800
P2DF226	2192	86.3	593	23.4	2200x600
P2DF228	2192	86.3	793	31.2	2200x800

Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	D	F	20	8	Blank	=	P2DF208
PROLINE G2	Door	Blank = single door O = double door W = window door A = side door adapter DR = disconnect right DL = disconnect left DR2 = disconnect right large cutout F = dress frame	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 8 = 800 6 = 600	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

Notes

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SOLID TOP

APPLICATION

PROLINE G2 Solid tops are used to close the top opening on an enclosure frame.

FEATURES

- Lifting eyes can be used to attach the solid top, in place of the included hardware
- Seamless polyurethane gasket (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants

SPECIFICATIONS

- 16 gauge (1.5 mm) steel
- Additional support provisions need to be made to support top-mount air conditioners or other top-mount accessories
- Includes four M12 hex bolts for installation

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

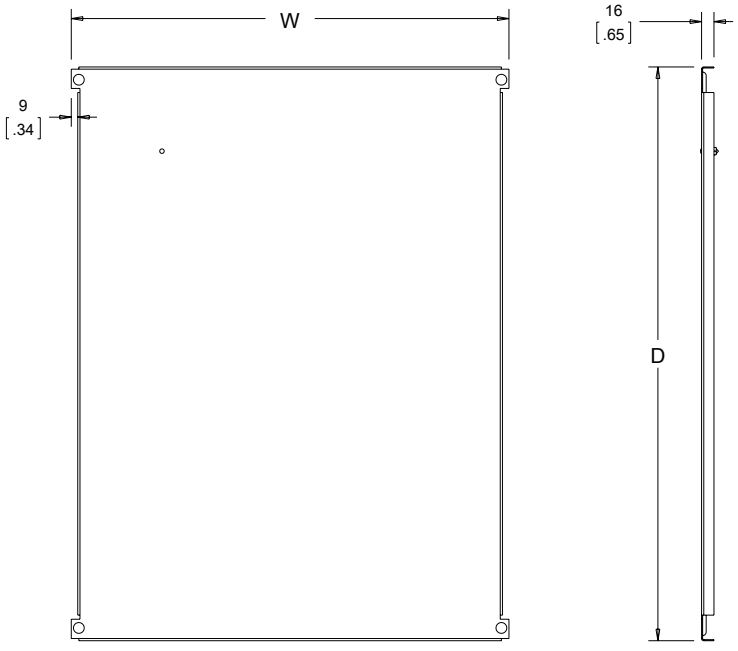
ACCESSORIES

Lifting Eyes, page 511
Lifting Bars, page 512
Lifting Angles, page 511
Support Bracket Kit, page 512

BULLETIN: P40

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Gauge	Fits Frame WxD (mm)
P2T45	379	14.9	459	18.1	16	400x500
P2T46	379	14.9	559	22.0	16	400x600
P2T64	579	22.8	359	14.1	16	600x400
P2T65	579	22.8	459	18.1	16	600x500
P2T66	579	22.8	559	22.0	16	600x600
P2T68	579	22.8	759	29.9	16	600x800
P2T84	779	30.7	359	14.1	16	800x400
P2T85	779	30.7	459	18.1	16	800x500
P2T86	779	30.7	559	22.0	16	800x600
P2T88	779	30.7	759	29.9	16	800x800
P2T810	779	30.7	959	37.8	16	800x1000
P2T104	979	38.5	359	14.1	16	1000x400
P2T105	979	38.5	459	18.1	16	1000x500
P2T106	979	38.5	559	22.0	16	1000x600
P2T108	979	38.5	759	29.9	16	1000x800
P2T124	1179	46.4	359	14.1	16	1200x400
P2T125	1179	46.4	459	18.1	16	1200x500
P2T126	1179	46.4	559	22.0	16	1200x600
P2T128	1179	46.4	759	29.9	16	1200x800
P2T164	1579	62.2	359	14.1	16	1600x400
P2T165	1579	62.2	459	18.1	16	1600x500
P2T166	1579	62.2	559	22.0	16	1600x600
P2T168	1579	62.2	759	29.9	16	1600x800
P2T185	1779	70.0	459	18.1	16	1800x500
P2T186	1779	70.0	559	22.0	16	1800x600
P2T188	1779	70.0	759	29.9	16	1800x800



Model	Component	Type	Width	Depth	Specialty		Catalog Number
P2	T	Blank	8	6	Blank	=	P2T86

Model: PROLINE G2

Component: Top

Type:
- Blank = solid top
- P = pagoda top
- PH = top with cutout for high-performance pagoda vent

Width: mm
- 18 = 1800
- 16 = 1600
- 14 = 1400
- 12 = 1200
- 10 = 1000
- 8 = 800
- 6 = 600
- 4 = 400

Depth: mm
- 10 = 1000
- 8 = 800
- 6 = 600
- 5 = 500
- 4 = 400

Specialty:
- Blank = standard
- HF = EMC protected

NOTE: Not every combination is available as a standard product.

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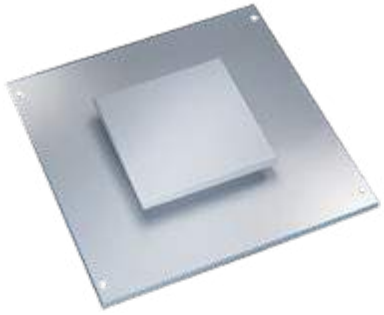
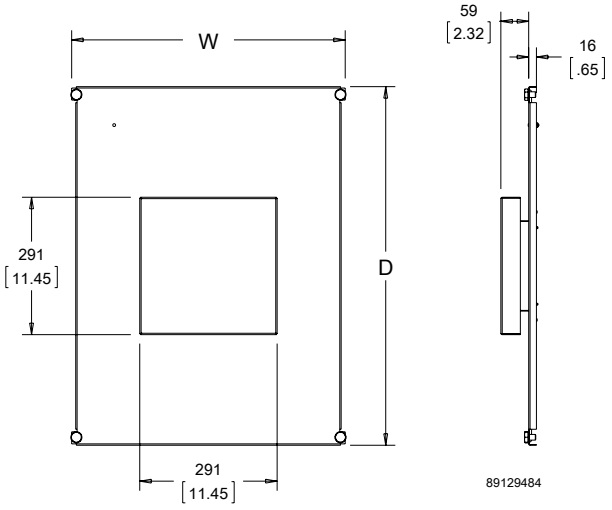
PAGODA TOP





APPLICATION

Pagoda tops can be used on the top of a modular enclosure for active cooling. The design features a drip-proof raised pagoda vent with a 115-volt integral axial exhaust fan, and includes gasket seals to maintain a NEMA 12 enclosure rating.

FEATURES

- Maintains NEMA 12 Type rating on enclosure when installed
- Drip-protected, raised pagoda vent
- Integral axial exhaust fan for active cooling

SPECIFICATIONS

- 14-gauge (1.75 mm) steel
- Pagoda Tops 1200 mm and greater in width have one drip-protected, raised pagoda vent opening positioned over one side that can be oriented for right or left ventilation
- Seamless polyeurethane gasket between top and frame (UL component recognized) provides a water-tight, dust-tight seal against moisture and contaminants
- Includes four M12 hex bolts for installation
- Lifting eyes (not included) can be used instead of bolts

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

Lifting Eyes, page 511

BULLETIN: P40

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2TP45	379	14.9	459	18.1	400x500
P2TP46	379	14.9	559	22.0	400x600
P2TP64	579	22.8	359	14.1	600x400
P2TP65	579	22.8	459	18.1	600x500
P2TP66	579	22.8	559	22.0	600x600
P2TP68	579	22.8	759	29.9	600x800
P2TP84	779	30.7	359	14.1	800x400
P2TP85	779	30.7	459	18.1	800x500
P2TP86	779	30.7	559	22.0	800x600
P2TP88	779	30.7	759	29.9	800x800
P2TP810	779	30.7	959	37.8	800x1000
P2TP104	979	38.5	359	14.1	1000x400
P2TP105	979	38.5	459	18.1	1000x500
P2TP106	979	38.5	559	22.0	1000x600
P2TP108	979	38.5	759	29.9	1000x800
P2TP124	1179	46.4	359	14.1	1200x400
P2TP125	1179	46.4	459	18.1	1200x500
P2TP126	1179	46.4	559	22.0	1200x600
P2TP128	1179	46.4	759	29.9	1200x800
P2TP164	1579	62.2	359	14.1	1600x400
P2TP165	1579	62.2	459	18.1	1600x500
P2TP166	1579	62.2	559	22.0	1600x600
P2TP168	1579	62.2	759	29.9	1600x800
P2TP185	1779	70.0	459	18.1	1800x500
P2TP186	1779	70.0	559	22.0	1800x600
P2TP188	1779	70.0	759	29.9	1800x800

Model	Component	Type	Width	Depth	Specialty	Catalog Number
P2	T	P	8	6	Blank	= P2TP86
PROLINE G2	Top	Blank = solid top P = pagoda top PH = top with cutout for high-performance pagoda vent	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected	

NOTE: Not every combination is available as a standard product.

PAGODA EXHAUST VENT

APPLICATION

Pagoda Exhaust Vents can be field-installed on any PROLINE or PROLINE G2 solid top to provide active enclosure cooling.

FEATURES

- Axial fan and finger guard mounted in housing
- Drip-protected, raised cover is removable from the inside of the enclosure

SPECIFICATIONS

- 14-gauge (1.75 mm) steel
- 115V or 230V versions with lead wires
- 115V power cord option
- Rated UL Type 1; installing this component on an enclosure brings the enclosure rating to UL Type 1
- Includes gasket and mounting hardware

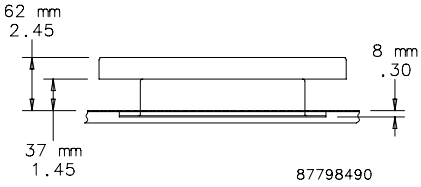
FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

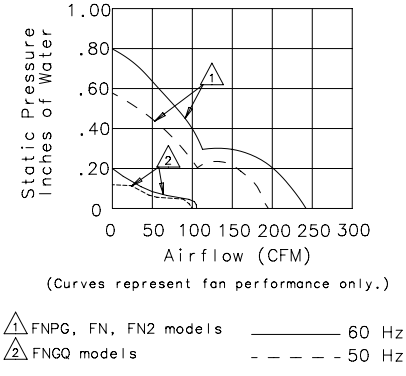
BULLETIN: P20

Standard Product

Catalog Number	Descriptioin	Volts	Hz
PPT1	LEADWIRE 115V,50/60Hz	115	50/60
PPT2	LEADWIRE	230	60



Performance Curve: 6 in. Fans



(Curves represent fan performance only.)

1 FNPG, FN, FN2 models ———— 60 Hz
2 FNGQ models - - - - - 50 Hz

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HIGH-PERFORMANCE PAGODA EXHAUST VENT

APPLICATION

High-Performance Pagoda Exhaust Vents can be installed on any PROLINE or PROLINE G2 solid top.

FEATURES

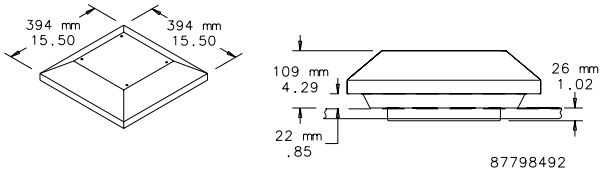
- Integral centrifugal blower mounted in a protective housing
- Can be installed on any PROLINE or PROLINE G2 solid top

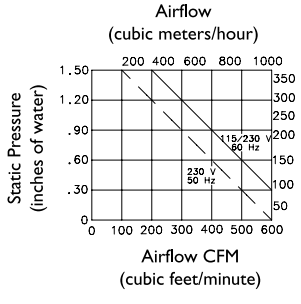
SPECIFICATIONS

- Drip-protected, raised cover is removable from the inside of the enclosure
- Housing includes a drip-proof removable hood, wire mesh finger guard and perimeter gasket
- Lead wire or power cord options
- 115V or 230V versions
- Rated UL Type 1; installing this component on an enclosure brings the enclosure rating to UL Type 1
- Installation hardware is included

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available





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BULLETIN: P20

Standard Product

Catalog Number	Description	Volts	Hz	Full Load Amps	Use with
PPTHP1	LEADWIRE	115	60	1.7	Top with high-performance pagoda vent cutout
PPTHP2	LEADWIRE	230	60	0.9	Top with high-performance pagoda vent cutout

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HIGH-PERFORMANCE PAGODA EXHAUST VENT CUTOUT TOP

APPLICATION

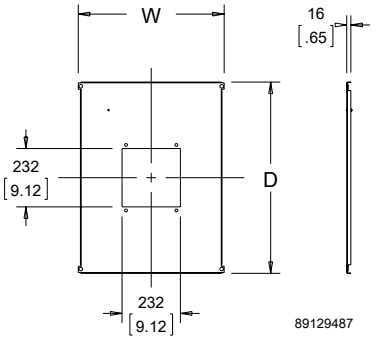
The High-Performance Pagoda Exhaust Vent Cutout Top has a cutout that accepts one high-performance pagoda vent.

SPECIFICATIONS

- Cutout top for High-Performance, Pagoda Exhaust Vents
- Bolts are furnished to hold top in position (lifting eyes can be used in place of bolts)
- Seamless, polyurethane gasket between top and frame (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants
- Ground studs are included
- Note: A High Performance Pagoda Exhaust Vent can be used with any PROLINE G2 solid top by requesting a cutout modification

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available



BULLETIN: P40

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Gauge	Fits Frame WxD (mm)
P2TPH66	592	23.30	599	23.57	16	600 x 600
P2TPH68	592	23.30	799	31.45	14	600 x 800
P2TPH86	792	31.17	599	23.57	16	800 x 600
P2TPH88	792	31.17	799	31.45	14	800 x 800

LIFTING EYES

APPLICATION

Lifting Eyes are used for lifting PROLINE G2 modular frames and for fastening PROLINE G2 top accessories to the frame.

FEATURES

- Designed for overhead lifting in conjunction with shackles and a spreader bar
- Thread into corner blocks in a frame

SPECIFICATIONS

- Furnished in sets of four
- Use of shackles instead of hooks is preferred
- The angle between the top of the enclosure and the cable or chain must be at least 45 degrees
- Use only slings and spreader bars that are designed for the specific application and are in compliance with regulations established by OSHA, ASME, ISA, ASTM and other governing agencies

FINISH

- Plated

LOAD RATING

- 750 lb (340 kg) per lifting eye, straight vertical pull
- 500 lb (226 kg) per lifting eye. 45 degree pull

BULLETIN: P40

Catalog Number	Description
P2ALE	Lifting Eyes, Qty 4

LIFTING ANGLES

APPLICATION

Lifting Eyes thread into the steel corner blocks of a modular enclosure to facilitate overhead lifting.

FEATURES

- Set of two angles, mounting hardware included
- Used to provide best load distribution while lifting two or three joined/ganged enclosures with up to 1000 lb (453 kg) of equipment and cabling in each bay
- Angles mount to top of enclosure frame corner blocks and do not require removal of top cover for installation

SPECIFICATIONS

- Lifting Angles are designed for overhead lifting in conjunction with shackles and a spreader bar
- Use of shackles instead of hooks is preferred
- The angle between the top of the enclosure and the cable or chain must be at least 45 degrees
- 10 gauge (3.0mm), mild steel
- Use only slings and spreader bars that are designed for the specific application and are in compliance with regulations established by OSHA, ASME, ISA, ASTM and other governing agencies

FINISH

- Plated

LOAD RATING

1500 lb (680 kg) per angle
3000 lb (1360 kg) set of 2

BULLETIN: P40

Catalog Number	Description
P2ALAFB	Front-to-Back Lifting Angles
P2ALASS	Side-to-Side Lifting Angles

LIFTING BARS

APPLICATION

Lifting Bars provide the best load distribution while lifting joined enclosures, each containing up to 3000 lbs. per bay of equipment and cabling. Bars mount to top of enclosure frame corner blocks and do not require removal of top cover for installation. Kit consists of two bars, bolts and washers.

FEATURES

- Set of two bars
- Can be used to lift joined enclosures up to 6 bays
- Load rating: 3000 lbs. (1360 kg) per bay

SPECIFICATIONS

- Mounts to top of frame corner blocks
- Does not require removal of top
- Consists of two bars, bolts and washers
- Designed for overhead lifting in conjunction with shackles and spreader bars. Use of shackles instead of hooks is preferred
- Use only spreader bars that are in compliance with regulations established by OSHA, ASME, ISA, ASTM or other governing agencies
- Angle between top of enclosure and the cable or chain greater than or equal to 45 degrees

FINISH

Clear zinc coated steel

LOAD RATING

- Load rating: 3000 lb (1360 kg) per bay
- Can be used to lift joined enclosures up to 6 bays

BULLETIN: P40

Catalog Number	Description
P2ALB12	LIFTING BARS 1200mm SET OF 2
P2ALB14	LIFTING BARS 1400mm SET OF 2
P2ALB16	LIFTING BARS 1600mm SET OF 2
P2ALB18	LIFTING BARS 1800mm SET OF 2
P2ALB20	LIFTING BARS 2000mm SET OF 2
P2ALB22	LIFTING BARS 2200mm SET OF 2
P2ALB24	LIFTING BARS 2400mm SET OF 2
P2ALB26	LIFTING BARS 2600mm SET OF 2
P2ALB28	LIFTING BARS 2800mm SET OF 2
P2ALB30	LIFTING BARS 3000mm SET OF 2

FRAME LIFTING ACCESSORIES LOAD CHART

Item	Load Rating* (lb/kg)	Recommended no. of Enclosures
Lifting Eyes	2000/907 (set of 4) 500/226 (per eye)	1-2
Lifting Angles	3000/1360	2-3
Lifting Bar	3000/1360	3-6

* Specified at a 45 degree lift angle

SUPPORT BRACKET KIT

APPLICATION

Support Brackets cross the depth of a modular enclosure and can be used for additional support for heavy devices mounted on the sides or tops.

FEATURES

- Brackets provide additional support for large air conditioners or other heavy devices that can be mounted on PROLINE G2 sides or tops
- Can be positioned at various heights to accommodate any size air conditioner or device

SPECIFICATIONS

- Support brackets fit on the sides, top or base (along the depth) to provide two horizontal rigid supports
- 14 gauge (1.75 mm) steel
- Furnished in pairs
- Installation hardware included

FINISH

Plated

BULLETIN: P40

Catalog Number	Length mm/in.	Fits Frame Depth mm
P2ACB4	256 10.0	400
P2ACB5	356 14.0	500
P2ACB6	456 18.0	600
P2ACB8	656 25.8	800
P2ACB10	856 33.7	1000

DRIP SHIELD

APPLICATION

The PROLINE G2 Drip Shield is used on the inside of the door to provide additional protection from liquid and contaminants. The frame of the PROLINE G2 includes a flange trough collar to protect the interior from dust and debris settling on the top of the enclosure. The Drip Shield effectively increases the depth of the trough, and provides additional protection for Type 3R applications.

SPECIFICATIONS

- Provides additional protection from liquid contaminants and debris
- Mounted inside the door cover; directly on the top through the M12 mounting holes.
- Can be mounted on either the front or rear of the enclosure (running left-to-right only).
- All mounting hardware included
- 16 gauge mild steel

FINISH

- Polyester powder paint
- RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Catalog Number	Length (mm)	Length (in.)
P2ADS4	379	14.9
P2ADS6	579	22.8
P2ADS8	779	30.7
P2ADS10	979	38.5
P2ADS12	1179	46.4
P2ADS16	1579	62.2
P2ADS18	1779	70.0

DUST COVER

APPLICATION

The PROLINE G2 Dust Cover can be used across the top of joined enclosures to provide a finished appearance. The Dust Cover is not required to maintain a Type 12 rating. It is purely for enhanced aesthetics.

SPECIFICATIONS

- Provides a finished appearance across the top of the joined enclosures
- Not required to maintain Type 12 rating
- 16 gauge mild steel

FINISH

- Polyester powder paint
- RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Catalog Number	Length (mm)	Length (in.)
P2ADC4	364	14.3
P2ADC5	464	18.3
P2ADC6	564	22.2
P2ADC8	764	30.1
P2ADC10	964	38.0

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GLAND PLATE

APPLICATION

Gland plates are used with a plinth base to provide cable management solutions while maintaining a NEMA 12 rating. PROLINE G2's unique Duro-Stand Gland Plate was designed to bear the weight of a person, making it easier to work on the enclosure when the gland plate is installed.

FEATURES

- Consists of a base mounting surface and adjustable foam-gasketed gland plates that permit cable entry
- Sturdy, adjustable gland plates designed to bear the weight of a person
- Number of plates varies with depth: 400 mm and 500 mm (3 plates); 600 mm (4 plates); 800 mm (6 plates); 1000 mm (8 plates)

SPECIFICATIONS

- Galvanized or painted versions
- Sealed to maintain NEMA Type 12 rating
- 14-gauge (1.75 mm) mild steel or galvanized
- Can be used with Plinth Base (100 mm or 200 mm), 100 mm Solid Plinth Base, Mobile Base or Transportation Base
- Can be used without a base if casters, levelers or frame feet are installed
- Can be rotated 180 degrees for front or rear cable entry
- Installation hardware included
- Includes additional foam gasketing which can be applied to reposition the gasketed opening towards the center of the cabinet or to create two independent access points

FINISH

For painted versions:

- Polyester powder paint; RAL 7035 textured light grey standard
- Custom colors available

ACCESSORIES

Plinth Base, page 517
Fully-Sealed Plinth Base, page 520
Caster Kit, page 573
Levelers, page 525
Frame Feet, page 525

BULLETIN: P40

Standard Product

Catalog Number	Fits Frame Width x Depth (mm)	Finish	No. of Plates
P2BGP45	400 x 500	Painted	3
P2BGP45G	400 x 500	Plated	3
P2BGP46	400 x 600	Painted	4
P2BGP46G	400 x 600	Plated	4
P2BGP64	600 x 400	Painted	3
P2BGP64G	600 x 400	Plated	3
P2BGP65	600 x 500	Painted	3
P2BGP65G	600 x 500	Plated	3
P2BGP66	600 x 600	Painted	4
P2BGP66G	600 x 600	Plated	4
P2BGP68	600 x 800	Painted	6
P2BGP68G	600 x 800	Plated	6
P2BGP84	800 x 400	Painted	3
P2BGP84G	800 x 400	Plated	3
P2BGP85	800 x 500	Painted	3
P2BGP85G	800 x 500	Plated	3
P2BGP86	800 x 600	Painted	4
P2BGP86G	800 x 600	Plated	4
P2BGP88	800 x 800	Painted	6
P2BGP88G	800 x 800	Plated	6
P2BGP810	800 x 1000	Painted	8
P2BGP810G	800 x 1000	Plated	8
P2BGP104	1000 x 400	Painted	3
P2BGP104G	1000 x 400	Plated	3
P2BGP105	1000 x 500	Painted	3
P2BGP105G	1000 x 500	Plated	3
P2BGP106	1000 x 600	Painted	4
P2BGP108	1000 x 600	Painted	4
P2BGP106G	1000 x 600	Plated	4
P2BGP108G	1000 x 800	Plated	6
P2BGP124	1200 x 400	Painted	3
P2BGP124G	1200 x 400	Plated	3
P2BGP125	1200 x 500	Painted	3
P2BGP125G	1200 x 500	Plated	3
P2BGP126	1200 x 600	Painted	4
P2BGP126G	1200 x 600	Plated	4
P2BGP128	1200 x 800	Painted	6
P2BGP128G	1200 x 800	Plated	6
P2BGP164	1600 x 400	Painted	3
P2BGP164G	1600 x 400	Plated	3
P2BGP165	1600 x 500	Painted	3
P2BGP165G	1600 x 500	Plated	3
P2BGP166	1600 x 600	Painted	4
P2BGP166G	1600 x 600	Plated	4
P2BGP168	1600 x 800	Painted	6
P2BGP168G	1600 x 800	Plated	6
P2BGP185	1800 x 500	Painted	3
P2BGP185G	1800 x 500	Plated	3
P2BGP186	1800 x 600	Painted	4
P2BGP186G	1800 x 600	Plated	4
P2BGP188	1800 x 800	Painted	6
P2BGP188G	1800 x 800	Plated	6

Model	Component	Type	Width	Depth	Specialty		Catalog Number
P2	B	GP	8	6	G	=	P2BGP86G
PROLINE G2	Base	0 = solid base 0mm 1 = fully-sealed plinth P1 = plinth base 100mm P2 = plinth base 200mm GP = gland plate T = transportation base M = mobile base	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected G = Galvanized steel		

NOTE: Not every combination is available as a standard product.

0-MM SOLID BASE

SPECIFICATIONS

- 16-gauge (1.5 mm) steel
- Includes four M12 hex bolts for installation

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

ACCESSORIES

Caster Kit, page 573
Levelers, page 525
Frame Feet, page 525
[s-74730]

BULLETIN: P40

APPLICATION

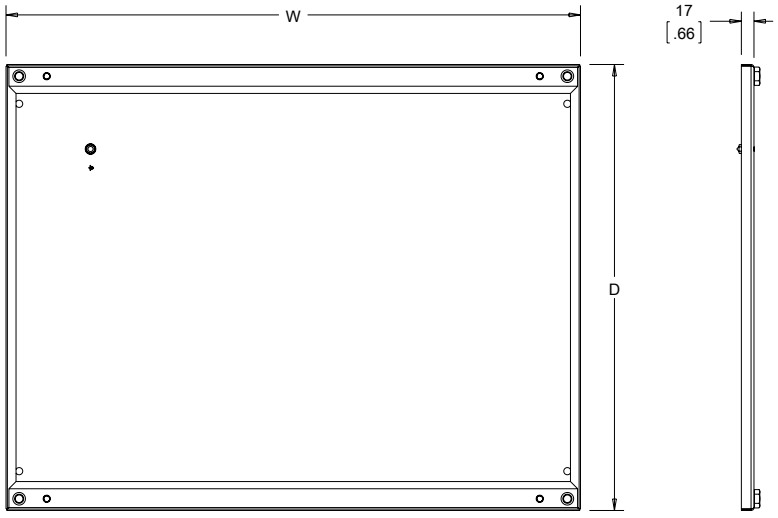
PROLINE G2 0-mm Solid Bases are used to close the bottom opening on an enclosure frame.

FEATURES

- Casters or levelers can be used to attach the solid base, in place of the included hardware
- Seamless polyurethane gasket (UL component recognized) provides a water-tight, dust-tight seal against moisture and contaminants

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2B045	390	15.4	460	18.1	400X500
P2B046	390	15.4	560	22.0	400X600
P2B064	590	23.2	360	14.2	600X400
P2B065	590	23.2	460	18.1	600X500
P2B066	590	23.2	560	22.0	600X600
P2B068	590	23.2	760	29.9	600X800
P2B084	790	31.1	360	14.2	800X400
P2B085	790	31.1	460	18.1	800X500
P2B086	790	31.1	560	22.0	800X600
P2B088	790	31.1	760	29.9	800X800
P2B0810	790	31.1	960	37.8	800X1000
P2B0104	990	39.0	360	14.2	1000X400
P2B0105	990	39.0	460	18.1	1000X500
P2B0108	990	39.0	760	29.9	1000X800
P2B0106	990	39.0	560	22.0	1000X600
P2B0124	1190	46.9	360	14.2	1200X400
P2B0125	1190	46.9	460	18.1	1200X500
P2B0126	1190	46.9	560	22.0	1200X600
P2B0128	1190	46.9	760	29.9	1200X800
P2B0164	1590	62.6	360	14.2	1600X400
P2B0165	1590	62.6	460	18.1	1600X500
P2B0166	1590	62.6	560	22.0	1600X600
P2B0168	1590	62.6	760	29.9	1600X800
P2B0185	1790	70.5	460	18.1	1800X500
P2B0186	1790	70.5	560	22.0	1800X600
P2B0188	1790	70.5	760	29.9	1800X800



Model	Component	Type	Width	Depth	Specialty		Catalog Number
P2	B	0	8	6	Blank	=	P2B086
PROLINE G2	Base	0 = solid base 0mm 1 = fully-sealed plinth P1 = plinth base 100mm P2 = plinth base 200mm GP = gland plate T = transportation base M = mobile base	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected G = Galvanized steel		

NOTE: Not every combination is available as a standard product.

PLINTH BASE

APPLICATION

PROLINE G2 Plinth Bases install under an enclosure to provide space for cables to enter from below.

FEATURES

- Four access panels for cable management options at the base of the enclosure
- Sturdy cast aluminum corner supports for superior performance under load
- Corner blocks can be installed onto the base of the frame independent of the cover plates, enabling the cover plates to be attached after integration and just prior to shipment.

SPECIFICATIONS

- Stackable up to 400mm in height using Plinth Base Stacking Kit (not included)
- 100 mm or 200 mm options
- To maintain a NEMA Type 12 environmental rating, gland plate must also be used in the base of the enclosure
- Installation hardware included
- Cover plates are 16-gauge (1.5 mm) steel

FINISH

- Polyester powder paint; RAL 9005 textured black standard
- Custom colors available

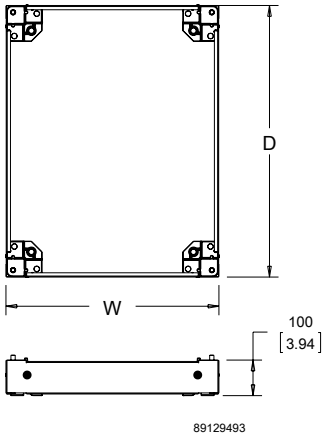
ACCESSORIES

Gland Plate, page 514
Plinth Base Stacking Kit, page 519

BULLETIN: P40

Standard Product **100 mm, For Frame Width Less Than 1200 mm**

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame Width x Depth mm
P2BP145	399	15.71	464	18.27	400 x 500
P2BP146	399	15.71	564	22.21	400 x 600
P2BP164	599	23.58	364	14.33	600 x 400
P2BP165	599	23.58	464	18.27	600 x 500
P2BP166	599	23.58	564	22.21	600 x 600
P2BP168	599	23.58	764	30.08	600 x 800
P2BP184	799	31.46	364	14.33	800 x 400
P2BP185	799	31.46	464	18.27	800 x 500
P2BP186	799	31.46	564	22.21	800 x 600
P2BP188	799	31.46	764	30.08	800 x 800
P2BP1810	799	31.46	964	37.95	800 x 1000
P2BP1104	999	39.33	364	14.33	1000 x 400
P2BP1105	999	39.33	464	18.27	1000 x 500
P2BP1106	999	39.33	564	22.21	1000 x 600
P2BP1108	999	39.33	764	30.08	1000 x 800



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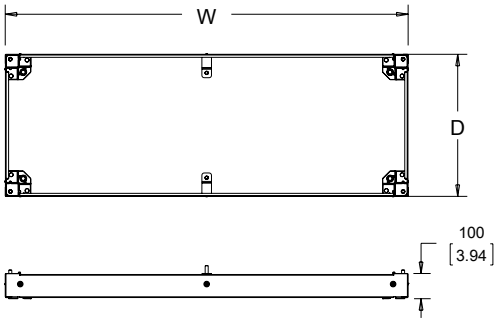
Standard Product **100 mm, For Frame Width 1200 mm and Greater**

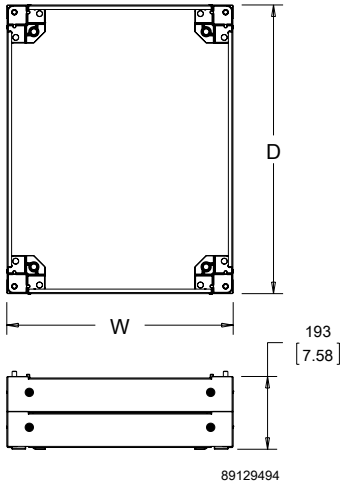
Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame Width x Depth mm
P2BP1124	1199	47.21	364	14.33	1200 x 400
P2BP1125	1199	47.21	464	18.27	1200 x 500
P2BP1126	1199	47.21	564	22.21	1200 x 600
P2BP1128	1199	47.21	764	30.07	1200 x 800
P2BP1164	1599	62.95	364	14.33	1600 x 400
P2BP1165	1599	62.95	464	18.27	1600 x 500
P2BP1166	1599	62.95	564	22.21	1600 x 600
P2BP1168	1599	62.95	764	30.07	1600 x 800
P2BP1185	1799	70.83	464	18.27	1800 x 500
P2BP1184	1799	70.83	364	14.33	1800 x 400
P2BP1186	1799	70.83	564	22.21	1800 x 600
P2BP1188	1799	70.83	764	30.07	1800 x 800



89131514

Standard Product **200 mm, For Frame Width Less Than 1200 mm**

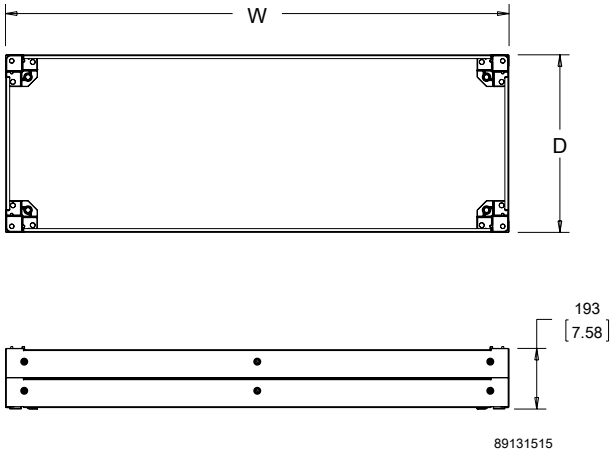
Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame Width x Depth mm
P2BP245	399	15.71	464	18.27	400 x 500
P2BP246	399	15.71	564	22.21	400 x 600
P2BP264	599	23.58	364	14.33	600 x 400
P2BP265	599	23.58	464	18.27	600 x 500
P2BP266	599	23.58	564	22.21	600 x 600
P2BP284	799	31.46	364	14.33	800 x 400
P2BP268	599	23.58	764	30.07	600x800
P2BP285	799	31.46	464	18.27	800 x 500
P2BP286	799	31.46	564	22.21	800 x 600
P2BP288	799	31.46	764	30.07	800 x 800
P2BP2810	999	39.33	964	37.95	800 x 1000
P2BP2104	999	39.33	364	14.33	1000 x 400
P2BP2105	999	39.33	464	18.27	1000 x 500
P2BP2106	999	39.33	564	22.21	1000 x 600
P2BP2108	999	39.33	764	30.07	1000 x 800



89129494

Standard Product **200 mm, For Frame Width 1200 mm and Greater**

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame Width x Depth mm
P2BP2124	1199	47.21	364	14.33	1200 x 400
P2BP2125	1199	47.21	464	18.27	1200 x 500
P2BP2126	1199	47.21	564	22.21	1200 x 600
P2BP2128	1199	47.21	764	31.08	1200 x 800
P2BP2164	1599	62.95	364	14.33	1600 x 400
P2BP2165	1599	62.95	464	18.27	1600 x 500
P2BP2166	1599	62.95	564	22.21	1600 x 600
P2BP2168	1599	62.95	764	31.08	1600 x 800
P2BP2185	1799	70.83	464	18.27	1800 x 500
P2BP2184	1799	70.83	364	14.33	1800 x 400
P2BP2186	1799	70.83	564	22.21	1800 x 600
P2BP2188	1799	70.83	764	31.08	1800 x 800



Model	Component	Type	Width	Depth	Specialty	Catalog Number
P2	B	P1	8	6	Blank	= P2BP186
PROLINE G2	Base	0 = solid base 0mm 1 = fully-sealed plinth P1 = plinth base 100mm P2 = plinth base 200mm P1D= plinth base 100mm disconnect GP = gland plate T = transportation base M = mobile base	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected G = Galvanized steel (gland plate only)	

NOTE: Not every combination is available as a standard product.

PLINTH BASE STACKING KIT

The Plinth Base Stacking Kit is used to stack plinth bases up to 400 mm high. Kit consists of eight bolts and nuts and eight each of two types of washers.

BULLETIN: P20

Standard Product

Catalog Number	Description
PPBSK	Plinth Base Stacking Kit

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FULLY-SEALED PLINTH BASE

APPLICATION

No need to use a gland plate in the base of the enclosure with the Fully-Sealed Plinth Base (100mm Solid Base), which includes fully-sealed gland plates on the sides. Solid bases can easily be joined, for convenient cable management in joined/ganged enclosures while maintaining Type 12 environmental rating.

FEATURES

- Maintains NEMA 12 rating without requiring gland plate
- Two side gland plates for cable management options
- Seamless polyurethane gasket (UL component recognized) provides a watertight, dust-tight seal against moisture and contaminants

SPECIFICATIONS

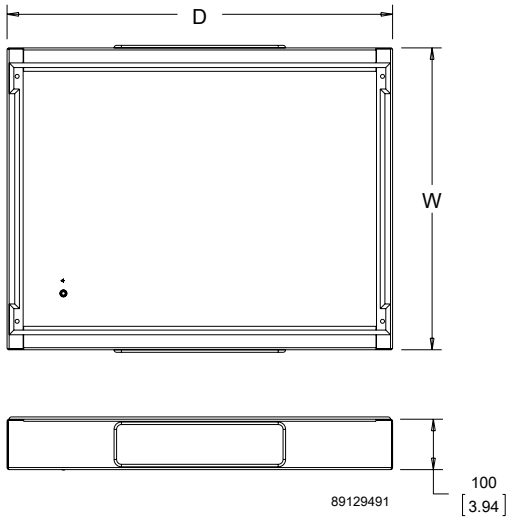
- Optional Cable Entry Gland Plate for additional cable management solutions
- Widths greater than 800 mm are 14 gauge (1.75 mm); widths of 800 mm or less are 16 gauge (1.5 mm) steel
- Welded corners
- Drill points for locating casters (not included)
- Installation hardware included

FINISH

- Polyester powder paint; RAL 9005 textured black standard
- Custom colors available

ACCESSORIES

Cable Entry Gland Plate, page 521
Gland Plate, page 514
Fully-Sealed Plinth Base Joining Kit, page 527



BULLETIN: P40

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)
P2B145	465	18.3	399	15.7
P2B146	565	22.2	399	15.7
P2B164	365	14.4	599	23.6
P2B165	465	18.3	599	23.6
P2B166	565	22.2	599	23.6
P2B168	765	30.1	599	23.6
P2B184	365	14.4	799	31.5
P2B185	465	18.3	799	31.5
P2B186	565	22.2	799	31.5
P2B188	765	30.1	799	31.5
P2B1810	965	38.0	799	31.5
P2B1104	365	14.4	999	39.3
P2B1105	465	18.3	999	39.3
P2B1106	565	22.2	999	39.3
P2B1108	765	30.1	999	39.9
P2B1124	365	14.4	1199	47.2
P2B1125	465	18.3	1199	47.2
P2B1126	565	22.2	1199	47.2
P2B1128	765	30.1	1199	47.2
P2B1164	365	14.4	1599	63.0
P2B1165	465	18.3	1599	63.0
P2B1166	565	22.2	1599	63.0
P2B1168	765	30.1	1599	63.0
P2B1184	365	14.4	1799	70.8
P2B1185	465	18.3	1799	70.8
P2B1186	565	22.2	1799	70.8
P2B1188	765	30.1	1799	70.8

Model	Component	Type	Width	Depth	Specialty		Catalog Number
P2	B	1	8	6	Blank	=	P2B186
PROLINE G2	Base	0 = solid base 0mm 1 = fully-sealed plinth P1 = plinth base 100mm P2 = plinth base 200mm GP = gland plate T = transportation base M = mobile base	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400	Blank = standard HF = EMC protected		

NOTE: Not every combination is available as a standard product.

CABLE ENTRY GLAND PLATE

APPLICATION

Cable Entry Gland Plates can be used instead of the solid gland plates on the Fully Sealed Plinth Base (100mm Solid Base) to provide additional cable management solutions.

SPECIFICATIONS

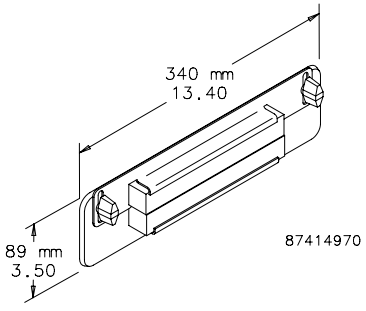
- Can be used in place of solid gland plates in Fully Sealed Plinth Base (100mm Solid Base)
- Adjustable opening
- Foam lined to maintain a dust-tight seal
- 14 gauge (1.75) mild steel

FINISH

- Polyester powder paint; RAL 9005 textured black standard
- Custom colors available

BULLETIN: P40

Catalog Number	Kit Qty.
P2ACEGP	1



FULLY-SEALED PLINTH BASE JOINING KIT

APPLICATION

The Fully-Sealed Plinth Base Joining Kit provides a seal between the side gland plate openings on adjacent Fully-Sealed Plinth Bases in joined bay configurations. Used in combination with the PROLINE G2 side-to-side joining kit.

FEATURES

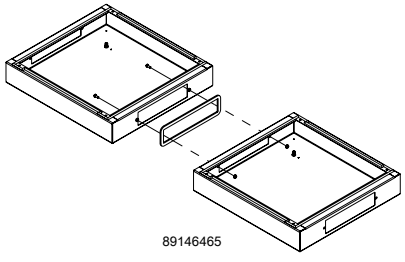
- Maintains NEMA 12 rating between Fully-Sealed Plinth bases
- Allows for sealed cable routing between joined cabinets

SPECIFICATIONS

- Includes nylon wire edge protector to prevent wear and abrasion of wires and cables
- Gasket and installation hardware included

BULLETIN: P40

Catalog Number	Description
P2AJSB	Joining Kit, Sealed Plinth Base



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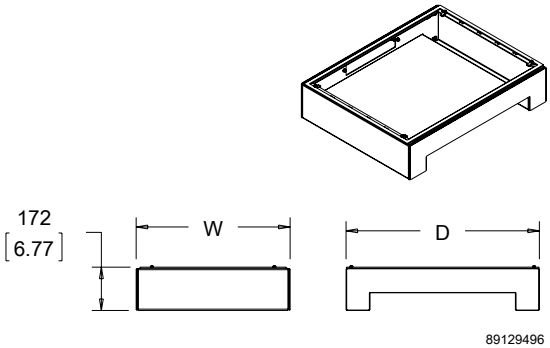
TRANSPORTATION BASE



APPLICATION

PROLINE G2 Transportation Bases provide enhanced stability and forklift provisions for modular enclosures up to a maximum of 3000 mm (118.11) total width in a multiple-bay system.

FEATURES

- Can be used across bayed enclosures up to a maximum of 300mm (118.11in.) total width
- Maintains NEMA 12 rating without requiring gland plate
- Removable side cover plates allows wire access between bases

SPECIFICATIONS

- 10 gauge (3 mm), mild steel
- Can be configured in a variety of combinations
- Unique design allows forklift access from each end
- Gasket and installation hardware included

FINISH

- Polyester powder paint; RAL 9005 textured black standard
- Custom colors available

ACCESSORIES

Transportation Base Joining Kit, Side-to-Side, page 528

BULLETIN: P40

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2BT45	411	16.2	467	18.4	400 x 500
P2BT46	411	16.2	567	22.3	400 x 600
P2BT64	611	24.1	367	14.4	600 x 400
P2BT65	611	24.1	467	18.4	600 x 500
P2BT66	611	24.1	567	22.3	600 x 600
P2BT68	611	24.1	767	30.2	600 x 800
P2BT84	811	31.9	367	14.4	800 x 400
P2BT85	811	31.9	467	18.4	800 x 500
P2BT86	811	31.9	567	22.3	800 x 600
P2BT88	811	31.9	767	30.2	800 x 800
P2BT810	811	31.9	967	38.1	800 x 1000
P2BT104	1011	39.8	367	14.4	1000 x 400
P2BT105	1011	39.8	467	18.4	1000 x 500
P2BT106	1011	39.8	567	22.3	1000 x 600
P2BT108	1011	39.8	767	30.2	1000 x 800
P2BT124	1216	47.9	367	14.4	1200 x 400
P2BT125	1216	47.9	467	18.4	1200 x 500
P2BT126	1216	47.9	567	22.3	1200 x 600
P2BT128	1216	47.9	767	30.2	1200 x 800
P2BT164	1616	63.6	367	14.4	1600 x 400
P2BT165	1616	63.6	467	18.4	1600 x 500
P2BT166	1616	63.6	567	22.3	1600 x 600
P2BT168	1616	63.6	767	30.2	1600 x 800
P2BT185	1816	71.5	467	18.4	1800 x 500
P2BT186	1816	71.5	567	22.3	1800 x 600
P2BT188	1816	71.5	767	30.2	1800 x 800

Model	Component	Type	Width	Depth		Catalog Number
P2	B	T	8	6	=	P2BT86
PROLINE G2	Base	T = transportation base	mm 18 = 1800 16 = 1600 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400		

NOTE: Not every combination is available as a standard product.

TRANSPORTATION BASE JOINING KIT, SIDE-TO-SIDE

APPLICATION

The PROLINE G2 Transportation Base Joining Kit, Side-to-Side interconnects transportation bases while maintaining the NEMA Type 12 rating.

FEATURES

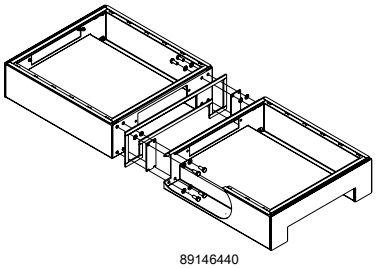
- Maintains NEMA 12 rating between Fully-Sealed Plinth bases
- Allows for sealed cable routing between joined cabinets

SPECIFICATIONS

- Gasket and installation hardware included
- Furnished grommet applied to edge of wire feed

BULLETIN: P40

Catalog Number	Description
P2AJT	Transportation Base Joining Kit, Side-to-Side



89146440

TRANSFORMER RAILS

APPLICATION

Transformer Rails are used to mount heavy components and transformers in the bottom of an enclosure.

FEATURES

- Installed side-to-side in the frame for component mounting
- Includes four M10 clamping nuts and bolts to attach equipment to rails

SPECIFICATIONS

- Rails slotted to fit the integral mounting holes in the frame
- All mounting hardware included

FINISH

Plated

BULLETIN: P20

Catalog Number	Length (mm)	Length (in.)	Fits Frame Width (mm)
PTR6	534	21.02	600
PTR8	734	28.90	800
PTR12	1134	44.65	1200

MOBILE BASE

APPLICATION

Mobile bases include casters and extend beyond the front and rear of 600- and 800-mm wide modular enclosures to provide enhanced stability.

FEATURES

- The front and rear top surfaces of the base are trimmed with 3-mm thick black rubber mats
- Four non-locking casters provide a maximum load-bearing capacity of 1000 lb. (453.6 kg)

SPECIFICATIONS

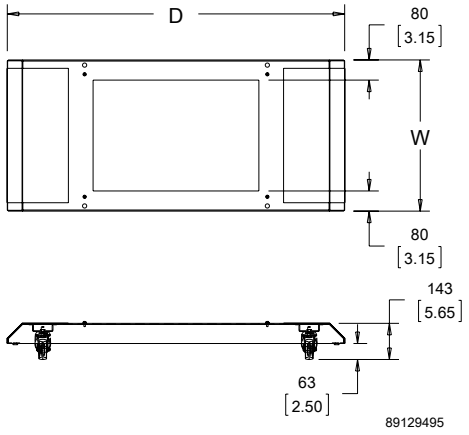
- Available as standard product for 600- and 800-mm wide frames
- The base fastens to the underside of the frame and provides integral mounting of furnished casters
- Casters and mounting hardware are furnished
- Exercise care when using casters to move the enclosure
- Avoid tipping and damage to the enclosure and its contents by slowly moving the enclosure on its casters across smooth, flat flooring
- Avoid large cracks, floor displacement, seams, gravel and any other obstruction
- Never use casters while transporting an enclosure by truck on roadways
- Contact Hoffman for more information

FINISH

- Polyester powder paint; RAL 9005 textured black standard
- Custom colors available

ACCESSORIES

Mobile Base Leveling Kit, page 524



BULLETIN: P40

Standard Product

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2BM64	600	23.6	939	37.0	600 x 400
P2BM65	600	23.6	1039	40.9	600 x 500
P2BM66	600	23.6	1139	44.8	600 x 600
P2BM68	600	23.6	1339	52.7	600 x 800
P2BM84	800	31.5	939	37.0	800 x 400
P2BM85	800	31.5	1039	40.9	800 x 500
P2BM86	800	31.5	1139	44.8	800 x 600
P2BM88	800	31.5	1339	52.7	800 x 800
P2BM810	800	31.5	1539	60.6	800 x 1000

Model	Component	Type	Width	Depth		Catalog Number
P2	B	M	8	6	=	P2BM86
PROLINE G2	Base	0 = solid base 0mm 1 = fully sealed plinth P1 = plinth base 100mm P2 = plinth base 200mm GP = gland plate T = transportation base M = mobile base	mm 8 = 800 6 = 600	mm 10 = 1000 8 = 800 6 = 600 5 = 500 4 = 400		

NOTE: Not every combination is available as a standard product.

MOBILE BASE LEVELING KIT

Levelers mount in the outer corners of the Mobile Base, providing load-bearing capacity of 1000 lb. (453.6 kg).

BULLETIN: P20

Catalog Number	Description	Use with
PMBLM12	Mobile Base Leveling Kit	Mobile Base

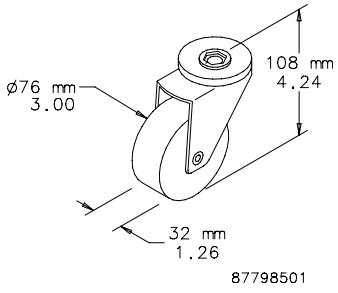
CASTER KIT

A set of four casters (two locking, two non-locking) that mount directly to the bottom of a PROLINE frame, 0-mm or 100-mm Solid Base or a Console. **(Do not use on plinth bases.)** Casters elevate the enclosure 110 mm (4.33) when installed. Caster frames are plated steel with ball-bearing pivots. Caster wheels are made of a black polyamide material. Kit includes M12 mounting hardware. Order separately.
Casters Maximum Load: 1000 lb. (453 kg)
Exercise care when using casters to move the cabinet. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring.

NOTE: Avoid large cracks, floor displacement, seams, gravel and any other obstructions.
Never use casters while transporting a cabinet by truck on roadways.
Contact Hoffman if further information is needed.

BULLETIN: P20

Catalog Number	Description
PC1M12	Set of 4 Casters

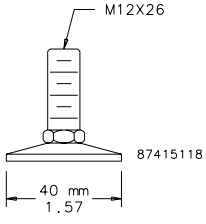


LEVELERS

Four post-type levelers allow adjustment for uneven floors. Levelers can be attached to the bottom of a frame or to a 0-mm solid base. Levelers are plated and the leveler base is capped with plastic to provide resistance to marring. Adjustable for 17-mm to 35-mm height. Ball and socket construction. Four levelers will support a maximum of 453.6 kg (1000 lb.).

BULLETIN: P20

Catalog Number	Description
PLM12	Post-type Levelers

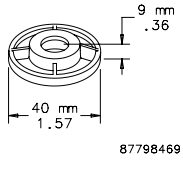


FRAME FEET

Four die-cast feet for use on the bottom of PROLINE frames that raise the frame 9 mm.

BULLETIN: P20

Catalog Number	Description
PFFM12	Frame Feet



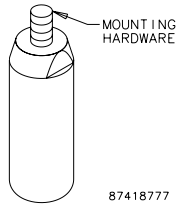
STAINLESS STEEL LEGS

Legs mount to the bottom of a solid base to elevate the enclosure 4 in. (100 mm) from the floor. The legs are made of Type 304 stainless steel and are appropriate for hose-down applications. Mounting hardware is included.

NOTE: These legs will not fit on the PROLINE G2 Fully-Sealed Plinth Base.

BULLETIN: P20S

Catalog Number	Description
PLEGSS	(4) Stainless Steel Legs



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JOINING SUBPANEL

APPLICATION

The PROLINE G2 Joining Subpanel provides a continuous panel surface in multiple-bay enclosures. The joining subpanel is inserted between full subpanels of equal height. It can be installed from front or rear.

FEATURES

- Provides a continuous panel surface in multiple bay enclosures
- Can be inserted between full mounting subpanels of equal height
- Painted or galvanized options

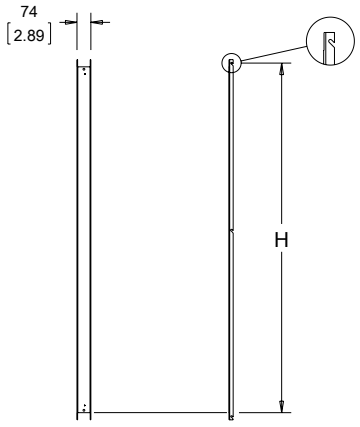
SPECIFICATIONS

- Can be installed from front or rear
- Subpanels can be mounted at any depth in 25-mm increments (front to back)
- Heights greater than or equal to 1400 mm are 10 gauge (3.0 mm) mild steel; heights less than 1400mm are 12 gauge (2.5 mm)

FINISH

For painted versions:

- Painted polyester powder paint; white
- Custom colors available



BULLETIN: P40

Catalog Number	H (mm)	H (in.)	Fits Frame Height mm	Description
P2PJ6	506	19.9	600	Painted
P2PJ6G	506	19.9	600	Conductive
P2PJ8	706	27.8	800	Painted
P2PJ8G	706	27.8	800	Conductive
P2PJ10	906	35.7	1000	Painted
P2PJ10G	906	35.7	1000	Conductive
P2PJ12	1106	43.5	1200	Painted
P2PJ12G	1106	43.5	1200	Conductive
P2PJ14	1306	51.4	1400	Painted
P2PJ14G	1306	51.4	1400	Conductive
P2PJ16	1506	59.3	1600	Painted
P2PJ16G	1506	59.3	1600	Conductive
P2PJ18	1706	67.2	1800	Painted
P2PJ18G	1706	67.2	1800	Conductive
P2PJ20	1906	75.0	2000	Painted
P2PJ20G	1906	75.0	2000	Conductive
P2PJ22	2106	82.9	2200	Painted
P2PJ22G	2106	82.9	2200	Conductive

Model	Component	Type	Height	Specialty		Catalog Number
P2	P	J	20	G	=	P2PJ208G
PROLINE G2	Mounting Subpanel	Blank = full subpanel SM = full, side-mount J = joining P = partial PSM = partial, side-mount SO = swing-out	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	Blank = painted G = galvanized		

NOTE: Not every combination is available as a standard product.

FRAME JOINING KITS

APPLICATION

The PROLINE G2 Frame Joining Kit permits joining two enclosure frames while maintaining an environmental seal. A newly-designed gasket and hardware kit ensures the joining kit is easy to use, sturdy, and maintains a dust-tight and watertight seal between joined frames.

FEATURES

- Permits joining two enclosure frames while maintaining an environmental seal
- A newly-designed gasket which is easier to install
- Sturdy connecting hardware for superior performance under load
- Includes a compression stop spacer

SPECIFICATIONS

- Kits for joining PROLINE G2 to a PROLINE G2 side-to-side or front-to-back
- Kit to join a PROLINE G2 to a PROLINE (Gen 1)
- Kit to join a PROLINE G2 to a modular enclosure that has a 'closed' profile frame
- Consists of six frame nuts and screws, a compression spacer, L-shaped gasket (for the top and bottom of the frame), and flat gasket (for the sides of the frame)

BULLETIN: P40

Catalog Number	Descripton
P2AJ	Joining Kit, G2 to G2, Side-to-Side
P2AJR	Joining Kit, G2 to R
P2AJF	Joining Kit, G2 to G2, Front-to-Back
P2AJP	Joining Kit, G2 to PROLINE

FULLY-SEALED PLINTH BASE JOINING KIT

APPLICATION

The Fully-Sealed Plinth Base Joining Kit provides a seal between the side gland plate openings on adjacent Fully-Sealed Plinth Bases in joined bay configurations. Used in combination with the PROLINE G2 side-to-side joining kit.

FEATURES

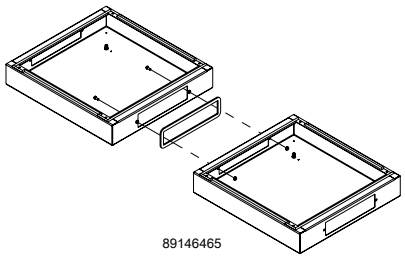
- Maintains NEMA 12 rating between Fully-Sealed Plinth bases
- Allows for sealed cable routing between joined cabinets

SPECIFICATIONS

- Includes nylon wire edge protector to prevent wear and abrasion of wires and cables
- Gasket and installation hardware included

BULLETIN: P40

Catalog Number	Description
P2AJSB	Joining Kit, Sealed Plinth Base



TRANSPORTATION BASE JOINING KIT, SIDE-TO-SIDE

APPLICATION

The PROLINE G2 Transportation Base Joining Kit, Side-to-Side interconnects transportation bases while maintaining the NEMA Type 12 rating.

FEATURES

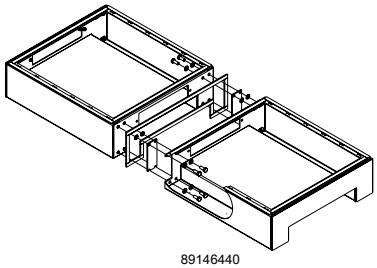
- Maintains NEMA 12 rating between Fully-Sealed Plinth bases
- Allows for sealed cable routing between joined cabinets

SPECIFICATIONS

- Gasket and installation hardware included
- Furnished grommet applied to edge of wire feed

BULLETIN: P40

Catalog Number	Description
P2AJT	Transportation Base Joining Kit, Side-to-Side



89146440

JOINING KIT SUPPORT BRACKET

APPLICATION

The PROLINE G2 Joining Kit Support Bracket is used in conjunction with the standard joining kit if additional support is desired. The kit includes a quantity of 8, 12 gauge, mild steel brackets with mounting hardware. The brackets span the joined frames and can be placed as needed.

SPECIFICATIONS

- Provides additional support for joined enclosures
- Includes (8) brackets with (32) M5 Thread Forming, Torx-Head Screws

FINISH

- Polyester powder paint
- RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Catalog Number	Bracket Qty.	Screws Qty.
P2AJKSB	8	32

DISCONNECT COMPONENTS

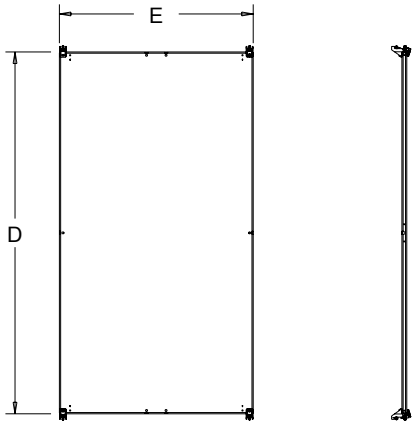
PROLINE G2 Disconnect Components are used with PROLINE G2 Disconnect Frames and Doors to configure a custom Disconnect Enclosure Solution for widths greater than 1000 mm wide. These components are identical to the standard PROLINE G2 components (i.e. PROLINE G2 Solid Tops, Gland Plates, Mounting Subpanel, Plinth Base) with the exception that the center support is offset 100mm (to accommodate the hinged mullion).

BULLETIN: P40

Standard Product **Disconnect Mounting Subpanels**

Catalog Number	D (mm)	D (in.)	E (mm)	E (in.)	Fits Frame HxW (mm)
P2PD1612G	1506	59.3	1128	44.4	1600 x 1200
P2PD1616G	1506	59.3	1528	60.2	1600 x 1600
P2PD1812G	1706	67.2	1128	44.4	1800 x 1200
P2PD1816G	1706	67.2	1528	60.2	1800 x 1600
P2PD1818G	1706	67.2	1728	68.0	1800 x 1800
P2PD2010G	1906	75.0	928	36.5	2000 x 1000
P2PD2012G	1906	75.0	1128	44.4	2000 x 1200
P2PD2016G	1906	75.0	1528	60.2	2000 x 1600
P2PD2018G	1906	75.0	1728	68.0	2000 x 1800
P2PD2212G	2106	82.9	1128	44.4	2200 x 1200
P2PD2216G	2106	82.9	1528	60.2	2200 x 1600
P2PD2218G	2106	82.9	1728	68.0	2200 x1800

Frame HxW dimensions are nominal mm.



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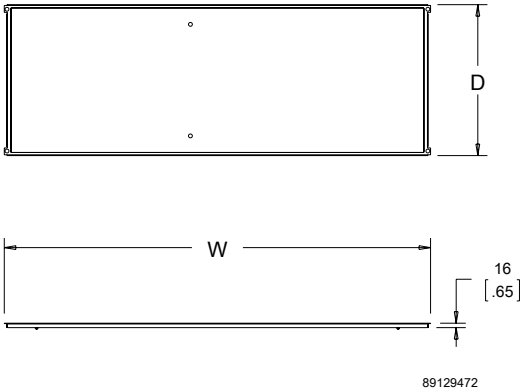
Standard Product **Disconnect Solid Tops**

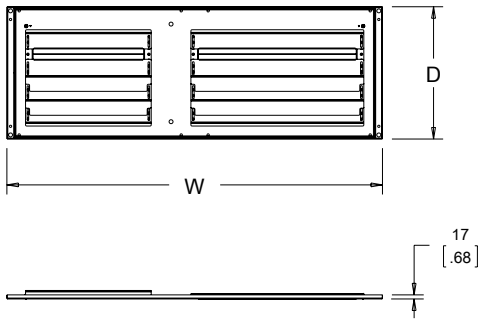
Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2TD124	1179	46.4	359	14.1	1200 x 400
P2TD126	1179	46.4	559	22.0	1200 x 600
P2TD164	1579	62.2	359	14.1	1600 x 400
P2TD166	1579	62.2	559	22.0	1600 x 600
P2TD184	1779	70.0	359	14.1	1800 x 400
P2TD186	1779	70.0	559	22.0	1800 x 600



89129472

Standard Product **Disconnect Gland Plates**

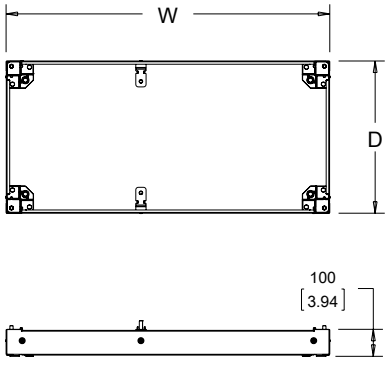
Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2BGPD124G	1190	46.85	360	14.17	1200 x 400
P2BGPD126G	1190	46.85	560	22.05	1200 x 600
P2BGPD164G	1590	62.60	360	14.17	1600 x 400
P2BGPD166G	1590	62.60	560	22.05	1600 x 600
P2BGPD184G	1790	70.47	360	14.17	1800 x 400
P2BGPD186G	1790	70.47	560	22.05	1800 x 600



89129486

Standard Product **Disconnect Plinth Base, 100mm**

Catalog Number	W (mm)	W (in.)	D (mm)	D (in.)	Fits Frame WxD (mm)
P2BP1D124	1199	47.21	364	14.33	1200 x 400
P2BP1D125	1199	47.21	464	18.27	1200 x 500
P2BP1D126	1199	47.21	564	22.21	1200 x 600
P2BP1D164	1599	62.95	364	14.33	1600 x 400
P2BP1D165	1599	62.95	464	18.27	1600 x 500
P2BP1D166	1599	62.95	564	22.21	1600 x 600
P2BP1D184	1799	70.83	364	14.33	1800 x 400
P2BP1D185	1799	70.83	464	18.27	1800 x 500
P2BP1D186	1799	70.83	564	22.21	1800 x 600
P2BP1D188	1799	70.83	794	31.08	1800 x 800



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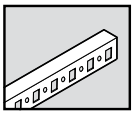
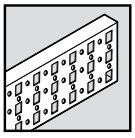
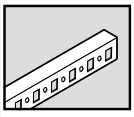
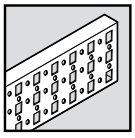
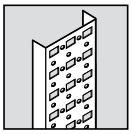
SELECTION MATRIX: PANEL AND GRID MOUNTING

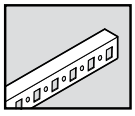
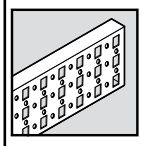
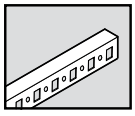
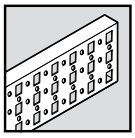
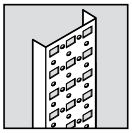
Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Full Subpanel (Painted)	Full Subpanel (Galvanized)	Full Side-Mount Subpanel (Painted)	Full Side-Mount Subpanel (Galvanized)	Joining Subpanel (Painted)	Joining Subpanel (Galvanized)	Swing-Out Subpanel (Painted)	Swing-Out Subpanel (Galvanized)
P2F664	600	600	400	Single	P2P66	P2P66G	P2PSM64	P2PSM64G	P2PJ6	P2PJ6G	P2PSO66	P2PSO66G
P2F666	600	600	600	Single	P2P66	P2P66G	P2PSM66	P2PSM66G	P2PJ6	P2PJ6G	P2PSO66	P2PSO66G
P2F688	600	800	800	Single	P2P68	P2P68G	P2PSM68	P2PSM68G	P2PJ6	P2PJ6G	P2PSO68	P2PSO68G
P2F864	800	600	400	Single	P2P86	P2P86G	N/A	N/A	P2PJ8	P2PJ8G	P2PSO86	P2PSO86G
P2F866	800	600	600	Single	P2P86	P2P86G	P2PSM86	P2PSM86G	P2PJ8	P2PJ8G	P2PSO86	P2PSO86G
P2F888	800	800	800	Single	P2P88	P2P88G	P2PSM88	P2PSM88G	P2PJ8	P2PJ8G	P2PSO88	P2PSO88G
P2F1064	1000	600	400	Single	P2P106	P2P106G	N/A	N/A	P2PJ10	P2PJ10G	P2PSO106	P2PSO106G
P2F1065	1000	600	500	Single	P2P106	P2P106G	P2PSM105	P2PSM105G	P2PJ10	P2PJ10G	P2PSO106	P2PSO106G
P2F1066	1000	600	600	Single	P2P106	P2P106G	P2PSM106	P2PSM106G	P2PJ10	P2PJ10G	P2PSO106	P2PSO106G
P2F1085	1000	800	500	Single	P2P108	P2P108G	P2PSM105	P2PSM105G	P2PJ10	P2PJ10G	P2PSO108	P2PSO108G
P2F1086	1000	800	600	Single	P2P108	P2P108G	P2PSM106	P2PSM106G	P2PJ10	P2PJ10G	P2PSO108	P2PSO108G
P2F1088	1000	800	800	Single	P2P108	P2P108G	P2PSM108	P2PSM108G	P2PJ10	P2PJ10G	P2PSO108	P2PSO108G
P2F10125	1000	1200	500	Double	P2P1012	P2P1012G	P2PSM105	P2PSM105G	P2PJ10	P2PJ10G	N/A	N/A
P2F1264	1200	600	400	Single	P2P126	P2P126G	N/A	N/A	P2PJ12	P2PJ12G	P2PSO126	P2PSO126G
P2F1265	1200	600	500	Single	P2P126	P2P126G	P2PSM125	P2PSM125G	P2PJ12	P2PJ12G	P2PSO126	P2PSO126G
P2F1266	1200	600	600	Single	P2P126	P2P126G	P2PSM126	P2PSM126G	P2PJ12	P2PJ12G	P2PSO126	P2PSO126G
P2F1285	1200	800	500	Single	P2P128	P2P128G	P2PSM125	P2PSM125G	P2PJ12	P2PJ12G	P2PSO128	P2PSO128G
P2F1286	1200	800	600	Single	P2P128	P2P128G	P2PSM126	P2PSM126G	P2PJ12	P2PJ12G	P2PSO128	P2PSO128G
P2F1288	1200	800	800	Single	P2P128	P2P128G	P2PSM128	P2PSM128G	P2PJ12	P2PJ12G	P2PSO128	P2PSO128G
P2F12125	1200	1200	500	Double	P2P1212	P2P1212G	P2PSM125	P2PSM125G	P2PJ12	P2PJ12G	N/A	N/A
P2F1465	1400	600	500	Single	P2P146	P2P146G	P2PSM145	P2PSM145G	P2PJ14	P2PJ14G	P2PSO146	P2PSO146G
P2F1466	1400	600	600	Single	P2P146	P2P146G	P2PSM146	P2PSM146G	P2PJ14	P2PJ14G	P2PSO146	P2PSO146G
P2F1468	1400	600	800	Single	P2P146	P2P146G	P2PSM148	P2PSM148G	P2PJ14	P2PJ14G	P2PSO146	P2PSO146G
P2F1485	1400	800	500	Single	P2P148	P2P148G	P2PSM145	P2PSM145G	P2PJ14	P2PJ14G	P2PSO148	P2PSO148G
P2F1486	1400	800	600	Single	P2P148	P2P148G	P2PSM146	P2PSM146G	P2PJ14	P2PJ14G	P2PSO148	P2PSO148G
P2F1488	1400	800	800	Single	P2P148	P2P148G	P2PSM148	P2PSM148G	P2PJ14	P2PJ14G	P2PSO148	P2PSO148G
P2F14125	1400	1200	500	Double	P2P1412	P2P1412G	P2PSM145	P2PSM145G	P2PJ14	P2PJ14G	N/A	N/A
P2F1664	1600	600	400	Single	P2P166	P2P166G	P2PSM164	P2PSM164G	P2PJ16	P2PJ16G	P2PSO166	P2PSO166G
P2F1665	1600	600	500	Single	P2P166	P2P166G	P2PSM165	P2PSM165G	P2PJ16	P2PJ16G	P2PSO166	P2PSO166G
P2F1666	1600	600	600	Single	P2P166	P2P166G	P2PSM166	P2PSM166G	P2PJ16	P2PJ16G	P2PSO166	P2PSO166G
P2F1668	1600	600	800	Single	P2P166	P2P166G	P2PSM168	P2PSM168G	P2PJ16	P2PJ16G	P2PSO166	P2PSO166G
P2F1684	1600	800	400	Single	P2P168	P2P168G	P2PSM164	P2PSM164G	P2PJ16	P2PJ16G	P2PSO168	P2PSO168G
P2F1685	1600	800	500	Single	P2P168	P2P168G	P2PSM165	P2PSM165G	P2PJ16	P2PJ16G	P2PSO168	P2PSO168G
P2F1686	1600	800	600	Single	P2P168	P2P168G	P2PSM166	P2PSM166G	P2PJ16	P2PJ16G	P2PSO168	P2PSO168G
P2F1688	1600	800	800	Single	P2P168	P2P168G	P2PSM168	P2PSM168G	P2PJ16	P2PJ16G	P2PSO168	P2PSO168G
P2F16104	1600	1000	400	Single	P2P1610	P2P1610G	P2PSM164	P2PSM164G	P2PJ16	P2PJ16G	N/A	N/A
P2F16106	1600	1000	600	Single	P2P1610	P2P1610G	P2PSM166	P2PSM166G	P2PJ16	P2PJ16G	N/A	N/A
P2F16124	1600	1200	400	Double	P2P1612	P2P1612G	P2PSM164	P2PSM164G	P2PJ16	P2PJ16G	N/A	N/A
P2F16125	1600	1200	500	Double	P2P1612	P2P1612G	P2PSM165	P2PSM165G	P2PJ16	P2PJ16G	N/A	N/A

Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Full Subpanel (Painted)	Full Subpanel (Galvanized)	Full Side-Mount Subpanel (Painted)	Full Side-Mount Subpanel (Galvanized)	Joining Subpanel (Painted)	Joining Subpanel (Galvanized)	Swing-Out Subpanel (Painted)	Swing-Out Subpanel (Galvanized)
P2F16126	1600	1200	600	Double	P2P1612	P2P1612G	P2PSM166	P2PSM166G	P2PJ16	P2PJ16G	N/A	N/A
P2F16128	1600	1200	800	Double	P2P1612	P2P1612G	P2PSM168	P2PSM168G	P2PJ16	P2PJ16G	N/A	N/A
P2F16164	1600	1600	400	Double	P2P1616	P2P1616G	P2PSM164	P2PSM164G	P2PJ16	P2PJ16G	N/A	N/A
P2F16165	1600	1600	500	Double	P2P1616	P2P1616G	P2PSM165	P2PSM165G	P2PJ16	P2PJ16G	N/A	N/A
P2F16166	1600	1600	600	Double	P2P1616	P2P1616G	P2PSM166	P2PSM166G	P2PJ16	P2PJ16G	N/A	N/A
P2F16168	1600	1600	800	Double	P2P1616	P2P1616G	P2PSM168	P2PSM168G	P2PJ16	P2PJ16G	N/A	N/A
P2F1845	1800	400	500	Single	P2P184	P2P184G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	N/A	N/A
P2F1846	1800	400	600	Single	P2P184	P2P184G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	N/A	N/A
P2F1864	1800	600	400	Single	P2P186	P2P186G	P2PSM184	P2PSM184G	P2PJ18	P2PJ18G	P2PSO186	P2PSO186G
P2F1865	1800	600	500	Single	P2P186	P2P186G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	P2PSO186	P2PSO186G
P2F1866	1800	600	600	Single	P2P186	P2P186G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	P2PSO186	P2PSO186G
P2F1868	1800	600	800	Single	P2P186	P2P186G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	P2PSO186	P2PSO186G
P2F1884	1800	800	400	Single	P2P188	P2P188G	P2PSM184	P2PSM184G	P2PJ18	P2PJ18G	P2PSO188	P2PSO188G
P2F1885	1800	800	500	Single	P2P188	P2P188G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	P2PSO188	P2PSO188G
P2F1886	1800	800	600	Single	P2P188	P2P188G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	P2PSO188	P2PSO188G
P2F1888	1800	800	800	Single	P2P188	P2P188G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	P2PSO188	P2PSO188G
P2F18104	1800	1000	400	Single	P2P1810	P2P1810G	P2PSM184	P2PSM184G	P2PJ18	P2PJ18G	N/A	N/A
P2F18105	1800	1000	500	Single	P2P1810	P2P1810G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	N/A	N/A
P2F18106	1800	1000	600	Single	P2P1810	P2P1810G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	N/A	N/A
P2F18108	1800	1000	800	Single	P2P1810	P2P1810G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	N/A	N/A
P2F18124	1800	1200	400	Double	P2P1812	P2P1812G	P2PSM184	P2PSM184G	P2PJ18	P2PJ18G	N/A	N/A
P2F18125	1800	1200	500	Double	P2P1812	P2P1812G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	N/A	N/A
P2F18126	1800	1200	600	Double	P2P1812	P2P1812G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	N/A	N/A
P2F18128	1800	1200	800	Double	P2P1812	P2P1812G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	N/A	N/A
P2F18164	1800	1600	400	Double	P2P1816	P2P1816G	P2PSM184	P2PSM184G	P2PJ18	P2PJ18G	N/A	N/A
P2F18165	1800	1600	500	Double	P2P1816	P2P1816G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	N/A	N/A
P2F18166	1800	1600	600	Double	P2P1816	P2P1816G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	N/A	N/A
P2F18168	1800	1600	800	Double	P2P1816	P2P1816G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	N/A	N/A
P2F18185	1800	1800	500	Double	P2P1818	P2P1818G	P2PSM185	P2PSM185G	P2PJ18	P2PJ18G	N/A	N/A
P2F18186	1800	1800	600	Double	P2P1818	P2P1818G	P2PSM186	P2PSM186G	P2PJ18	P2PJ18G	N/A	N/A
P2F18188	1800	1800	800	Double	P2P1818	P2P1818G	P2PSM188	P2PSM188G	P2PJ18	P2PJ18G	N/A	N/A
P2F2045	2000	400	500	Single	P2P204	P2P204G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	N/A	N/A
P2F2046	2000	400	600	Single	P2P204	P2P204G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	N/A	N/A
P2F2064	2000	600	400	Single	P2P206	P2P206G	P2PSM204	P2PSM204G	P2PJ20	P2PJ20G	P2PSO206	P2PSO206G
P2F2065	2000	600	500	Single	P2P206	P2P206G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	P2PSO206	P2PSO206G
P2F2066	2000	600	600	Single	P2P206	P2P206G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	P2PSO206	P2PSO206G
P2F2068	2000	600	800	Single	P2P206	P2P206G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	P2PSO206	P2PSO206G
P2F2084	2000	800	400	Single	P2P208	P2P208G	P2PSM204	P2PSM204G	P2PJ20	P2PJ20G	P2PSO208	P2PSO208G
P2F2085	2000	800	500	Single	P2P208	P2P208G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	P2PSO208	P2PSO208G
P2F2086	2000	800	600	Single	P2P208	P2P208G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	P2PSO208	P2PSO208G
P2F2088	2000	800	800	Single	P2P208	P2P208G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	P2PSO208	P2PSO208G
P2F20810	2000	800	1000	Single	P2P208	P2P208G	P2PSM2010	P2PSM2010G	P2PJ20	P2PJ20G	P2PSO208	P2PSO208G

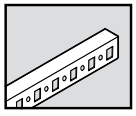
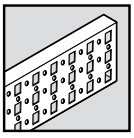
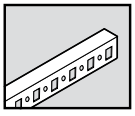
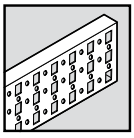
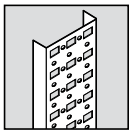
Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Full Subpanel (Painted)	Full Subpanel (Galvanized)	Full Side-Mount Subpanel (Painted)	Full Side-Mount Subpanel (Galvanized)	Joining Subpanel (Painted)	Joining Subpanel (Galvanized)	Swing-Out Subpanel (Painted)	Swing-Out Subpanel (Galvanized)
P2F20105	2000	1000	500	Single	P2P2010	P2P2010G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	N/A	N/A
P2F20106	2000	1000	600	Single	P2P2010	P2P2010G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	N/A	N/A
P2F20108	2000	1000	800	Single	P2P2010	P2P2010G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	N/A	N/A
P2F20124	2000	1200	400	Double	P2P2012	P2P2012G	P2PSM204	P2PSM204G	P2PJ20	P2PJ20G	N/A	N/A
P2F20125	2000	1200	500	Double	P2P2012	P2P2012G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	N/A	N/A
P2F20126	2000	1200	600	Double	P2P2012	P2P2012G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	N/A	N/A
P2F20128	2000	1200	800	Double	P2P2012	P2P2012G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	N/A	N/A
P2F20165	2000	1600	500	Double	P2P2016	P2P2016G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	N/A	N/A
P2F20166	2000	1600	600	Double	P2P2016	P2P2016G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	N/A	N/A
P2F20168	2000	1600	800	Double	P2P2016	P2P2016G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	N/A	N/A
P2F20185	2000	1800	500	Double	P2P2018	P2P2018G	P2PSM205	P2PSM205G	P2PJ20	P2PJ20G	N/A	N/A
P2F20186	2000	1800	600	Double	P2P2018	P2P2018G	P2PSM206	P2PSM206G	P2PJ20	P2PJ20G	N/A	N/A
P2F20188	2000	1800	800	Double	P2P2018	P2P2018G	P2PSM208	P2PSM208G	P2PJ20	P2PJ20G	N/A	N/A
P2F2265	2200	600	500	Single	P2P226	P2P226G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	P2PSO226	P2PSO226G
P2F2266	2200	600	600	Single	P2P226	P2P226G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	P2PSO226	P2PSO226G
P2F2285	2200	800	500	Single	P2P228	P2P228G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	P2PSO228	P2PSO228G
P2F2286	2200	800	600	Single	P2P228	P2P228G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	P2PSO228	P2PSO228G
P2F2288	2200	800	800	Single	P2P228	P2P228G	P2PSM228	P2PSM228G	P2PJ22	P2PJ22G	P2PSO228	P2PSO228G
P2F22810	2200	800	1000	Single	P2P228	P2P228G	P2PSM2210	P2PSM2210G	P2PJ22	P2PJ22G	P2PSO228	P2PSO228G
P2F22105	2200	1000	500	Single	P2P2210	P2P2210G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	N/A	N/A
P2F22106	2200	1000	600	Single	P2P2210	P2P2210G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	N/A	N/A
P2F22108	2200	1000	800	Single	P2P2210	P2P2210G	P2PSM228	P2PSM228G	P2PJ22	P2PJ22G	N/A	N/A
P2F22125	2200	1200	500	Double	P2P2212	P2P2212G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	N/A	N/A
P2F22126	2200	1200	600	Double	P2P2212	P2P2212G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	N/A	N/A
P2F22128	2200	1200	800	Double	P2P2212	P2P2212G	P2PSM228	P2PSM228G	P2PJ22	P2PJ22G	N/A	N/A
P2F22165	2200	1600	500	Double	P2P2216	P2P2216G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	N/A	N/A
P2F22166	2200	1600	600	Double	P2P2216	P2P2216G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	N/A	N/A
P2F22168	2200	1600	800	Double	P2P2216	P2P2216G	P2PSM228	P2PSM228G	P2PJ22	P2PJ22G	N/A	N/A
P2F22185	2200	1800	500	Double	P2P2218	P2P2218G	P2PSM225	P2PSM225G	P2PJ22	P2PJ22G	N/A	N/A
P2F22186	2200	1800	600	Double	P2P2218	P2P2218G	P2PSM226	P2PSM226G	P2PJ22	P2PJ22G	N/A	N/A
P2F22188	2200	1800	800	Double	P2P2218	P2P2218G	P2PSM228	P2PSM228G	P2PJ22	P2PJ22G	N/A	N/A

Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Center Upright	Grid Strap 1 Row (width)	Grid Strap 3 Row (width)	Grid Strap 1 Row (depth)	Grid Strap 3 Row (depth)	Vertical Grid Strap	Frame Shelf
P2F664	600	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R6	P2ASHF64
P2F666	600	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R6	P2ASHF66
P2F688	600	800	800	Single	P2ACU6	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R6	P2ASHF88
P2F864	800	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R8	P2ASHF64
P2F866	800	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R8	P2ASHF66
P2F888	800	800	800	Single	P2ACU8	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R8	P2ASHF88
P2F1064	1000	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R10	P2ASHF64
P2F1065	1000	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R10	P2ASHF65
P2F1066	1000	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R10	P2ASHF66
P2F1085	1000	800	500	Single	P2ACU10	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R10	P2ASHF85
P2F1086	1000	800	600	Single	P2ACU10	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R10	P2ASHF86
P2F1088	1000	800	800	Single	P2ACU10	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R10	P2ASHF88
P2F10125	1000	1200	500	Double	P2ACU10	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R10	N/A
P2F1264	1200	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R12	P2ASHF64

Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Center Upright	Grid Strap 1 Row (width)	Grid Strap 3 Row (width)	Grid Strap 1 Row (depth)	Grid Strap 3 Row (depth)	Vertical Grid Strap	Frame Shelf
P2F1265	1200	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R12	P2ASHF65
P2F1266	1200	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R12	P2ASHF66
P2F1285	1200	800	500	Single	P2ACU12	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R12	P2ASHF85
P2F1286	1200	800	600	Single	P2ACU12	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R12	P2ASHF86
P2F1288	1200	800	800	Single	P2ACU12	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R12	P2ASHF88
P2F12125	1200	1200	500	Double	P2ACU12	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R12	N/A
P2F1465	1400	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R14	P2ASHF65
P2F1466	1400	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R14	P2ASHF66
P2F1468	1400	600	800	Single	N/A	P2G1R7	P2G3R7	P2G1R8	P2G3R8	P2GV3R14	P2ASHF68
P2F1485	1400	800	500	Single	P2ACU14	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R14	P2ASHF85
P2F1486	1400	800	600	Single	P2ACU14	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R14	P2ASHF86
P2F1488	1400	800	800	Single	P2ACU14	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R14	P2ASHF88
P2F14125	1400	1200	500	Double	P2ACU14	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R14	N/A
P2F1664	1600	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R16	P2ASHF64
P2F1665	1600	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R16	P2ASHF65
P2F1666	1600	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R16	P2ASHF66
P2F1668	1600	600	800	Single	N/A	P2G1R7	P2G3R7	P2G1R8	P2G3R8	P2GV3R16	P2ASHF68
P2F1684	1600	800	400	Single	P2ACU16	P2G1R9	P2G3R9	P2G1R4	P2G3R4	P2GV3R16	P2ASHF84
P2F1685	1600	800	500	Single	P2ACU16	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R16	P2ASHF85
P2F1686	1600	800	600	Single	P2ACU16	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R16	P2ASHF86
P2F1688	1600	800	800	Single	P2ACU16	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R16	P2ASHF88
P2F16104	1600	1000	400	Single	P2ACU16	P2G1R11	P2G3R11	P2G1R4	P2G3R4	P2GV3R16	P2ASHF104
P2F16106	1600	1000	600	Single	P2ACU16	P2G1R11	P2G3R11	P2G1R6	P2G3R6	P2GV3R16	P2ASHF106
P2F16124	1600	1200	400	Double	P2ACU16	P2G1R13	P2G3R13	P2G1R4	P2G3R4	P2GV3R16	N/A
P2F16125	1600	1200	500	Double	P2ACU16	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R16	N/A
P2F16126	1600	1200	600	Double	P2ACU16	P2G1R13	P2G3R13	P2G1R6	P2G3R6	P2GV3R16	N/A
P2F16128	1600	1200	800	Double	P2ACU16	P2G1R13	P2G3R13	P2G1R8	P2G3R8	P2GV3R16	N/A
P2F16164	1600	1600	400	Double	P2ACU16	P2G1R17	P2G3R17	P2G1R4	P2G3R4	P2GV3R16	N/A
P2F16165	1600	1600	500	Double	P2ACU16	P2G1R17	P2G3R17	P2G1R5	P2G3R5	P2GV3R16	N/A
P2F16166	1600	1600	600	Double	P2ACU16	P2G1R17	P2G3R17	P2G1R6	P2G3R6	P2GV3R16	N/A
P2F16168	1600	1600	800	Double	P2ACU16	P2G1R17	P2G3R17	P2G1R8	P2G3R8	P2GV3R16	N/A
P2F1845	1800	400	500	Single	N/A	P2G1R5	P2G3R5	P2G1R5	P2G3R5	P2GV3R18	P2ASHF45
P2F1846	1800	400	600	Single	N/A	P2G1R5	P2G3R5	P2G1R6	P2G3R6	P2GV3R18	P2ASHF46
P2F1864	1800	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R18	P2ASHF64
P2F1865	1800	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R18	P2ASHF65
P2F1866	1800	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R18	P2ASHF66
P2F1868	1800	600	800	Single	N/A	P2G1R7	P2G3R7	P2G1R8	P2G3R8	P2GV3R18	P2ASHF68
P2F1884	1800	800	400	Single	P2ACU18	P2G1R9	P2G3R9	P2G1R4	P2G3R4	P2GV3R18	P2ASHF84
P2F1885	1800	800	500	Single	P2ACU18	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R18	P2ASHF85
P2F1886	1800	800	600	Single	P2ACU18	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R18	P2ASHF86

Frame Catalog No.	H (mm)	W (mm)	D (mm)	Bay Count	Center Upright	Grid Strap 1 Row (width)	Grid Strap 3 Row (width)	Grid Strap 1 Row (depth)	Grid Strap 3 Row (depth)	Vertical Grid Strap	Frame Shelf
P2F1888	1800	800	800	Single	P2ACU18	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R18	P2ASHF88
P2F18104	1800	1000	400	Single	P2ACU18	P2G1R11	P2G3R11	P2G1R4	P2G3R4	P2GV3R18	P2ASHF104
P2F18105	1800	1000	500	Single	P2ACU18	P2G1R11	P2G3R11	P2G1R5	P2G3R5	P2GV3R18	P2ASHF105
P2F18106	1800	1000	600	Single	P2ACU18	P2G1R11	P2G3R11	P2G1R6	P2G3R6	P2GV3R18	P2ASHF106
P2F18108	1800	1000	800	Single	P2ACU18	P2G1R11	P2G3R11	P2G1R8	P2G3R8	P2GV3R18	P2ASHF108
P2F18124	1800	1200	400	Double	P2ACU18	P2G1R13	P2G3R13	P2G1R4	P2G3R4	P2GV3R18	N/A
P2F18125	1800	1200	500	Double	P2ACU18	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R18	N/A
P2F18126	1800	1200	600	Double	P2ACU18	P2G1R13	P2G3R13	P2G1R6	P2G3R6	P2GV3R18	N/A
P2F18128	1800	1200	800	Double	P2ACU18	P2G1R13	P2G3R13	P2G1R8	P2G3R8	P2GV3R18	N/A
P2F18164	1800	1600	400	Double	P2ACU18	P2G1R17	P2G3R17	P2G1R4	P2G3R4	P2GV3R18	N/A
P2F18165	1800	1600	500	Double	P2ACU18	P2G1R17	P2G3R17	P2G1R5	P2G3R5	P2GV3R18	N/A
P2F18166	1800	1600	600	Double	P2ACU18	P2G1R17	P2G3R17	P2G1R6	P2G3R6	P2GV3R18	N/A
P2F18168	1800	1600	800	Double	P2ACU18	P2G1R17	P2G3R17	P2G1R8	P2G3R8	P2GV3R18	N/A
P2F18185	1800	1800	500	Double	P2ACU18	P2G1R19	P2G3R19	P2G1R5	P2G3R5	P2GV3R18	N/A
P2F18186	1800	1800	600	Double	P2ACU18	P2G1R19	P2G3R19	P2G1R6	P2G3R6	P2GV3R18	N/A
P2F18188	1800	1800	800	Double	P2ACU18	P2G1R19	P2G3R19	P2G1R8	P2G3R8	P2GV3R18	N/A
P2F2045	2000	400	500	Single	N/A	P2G1R5	P2G3R5	P2G1R5	P2G3R5	P2GV3R20	P2ASHF45
P2F2046	2000	400	600	Single	N/A	P2G1R5	P2G3R5	P2G1R6	P2G3R6	P2GV3R20	P2ASHF46
P2F2064	2000	600	400	Single	N/A	P2G1R7	P2G3R7	P2G1R4	P2G3R4	P2GV3R20	P2ASHF64
P2F2065	2000	600	500	Single	N/A	P2G1R7	P2G3R7	P2G1R5	P2G3R5	P2GV3R20	P2ASHF65
P2F2066	2000	600	600	Single	N/A	P2G1R7	P2G3R7	P2G1R6	P2G3R6	P2GV3R20	P2ASHF66
P2F2068	2000	600	800	Single	N/A	P2G1R7	P2G3R7	P2G1R8	P2G3R8	P2GV3R20	P2ASHF68
P2F2084	2000	800	400	Single	P2ACU20	P2G1R9	P2G3R9	P2G1R4	P2G3R4	P2GV3R20	P2ASHF84
P2F2085	2000	800	500	Single	P2ACU20	P2G1R9	P2G3R9	P2G1R5	P2G3R5	P2GV3R20	P2ASHF85
P2F2086	2000	800	600	Single	P2ACU20	P2G1R9	P2G3R9	P2G1R6	P2G3R6	P2GV3R20	P2ASHF86
P2F2088	2000	800	800	Single	P2ACU20	P2G1R9	P2G3R9	P2G1R8	P2G3R8	P2GV3R20	P2ASHF88
P2F20810	2000	800	1000	Single	P2ACU20	P2G1R9	P2G3R9	P2G1R10	P2G3R10	P2GV3R20	P2ASHF810
P2F20105	2000	1000	500	Single	P2ACU20	P2G1R11	P2G3R11	P2G1R5	P2G3R5	P2GV3R20	P2ASHF105
P2F20106	2000	1000	600	Single	P2ACU20	P2G1R11	P2G3R11	P2G1R6	P2G3R6	P2GV3R20	P2ASHF106
P2F20108	2000	1000	800	Single	P2ACU20	P2G1R11	P2G3R11	P2G1R8	P2G3R8	P2GV3R20	P2ASHF108
P2F20124	2000	1200	400	Double	P2ACU20	P2G1R13	P2G3R13	P2G1R4	P2G3R4	P2GV3R20	N/A
P2F20125	2000	1200	500	Double	P2ACU20	P2G1R13	P2G3R13	P2G1R5	P2G3R5	P2GV3R20	N/A
P2F20126	2000	1200	600	Double	P2ACU20	P2G1R13	P2G3R13	P2G1R6	P2G3R6	P2GV3R20	N/A
P2F20128	2000	1200	800	Double	P2ACU20	P2G1R13	P2G3R13	P2G1R8	P2G3R8	P2GV3R20	N/A
P2F20165	2000	1600	500	Double	P2ACU20	P2G1R17	P2G3R17	P2G1R5	P2G3R5	P2GV3R20	N/A
P2F20166	2000	1600	600	Double	P2ACU20	P2G1R17	P2G3R17	P2G1R6	P2G3R6	P2GV3R20	N/A
P2F20168	2000	1600	800	Double	P2ACU20	P2G1R17	P2G3R17	P2G1R8	P2G3R8	P2GV3R20	N/A
P2F20185	2000	1800	500	Double	P2ACU20	P2G1R19	P2G3R19	P2G1R5	P2G3R5	P2GV3R20	N/A
P2F20186	2000	1800	600	Double	P2ACU20	P2G1R19	P2G3R19	P2G1R6	P2G3R6	P2GV3R20	N/A
P2F20188	2000	1800	800	Double	P2ACU20	P2G1R19	P2G3R19	P2G1R8	P2G3R8	P2GV3R20	N/A

nVent | HOFFMAN

SELECTION MATRIX: RACK MOUNTING

Frame Catalog Number	H (mm)	W (mm)	D (mm)	Bay Count	19-inch Rack Angle (Square Hole)	19-inch Rack Angle (Tapped Hole)	Adjustable Rack-Mount Rails	Frame Reducing Bracket 19-inch Centered	Frame Reducing Bracket 19-inch Justified	Frame Accessory Bracket
P2F664	600	600	400	Single	P2RA19S6	P2RA19T6	P2GARA4	N/A	N/A	P2AFB19
P2F666	600	600	600	Single	P2RA19S6	P2RA19T6	P2GARA6	N/A	N/A	P2AFB19
P2F688	600	800	800	Single	P2RA19S6	P2RA19T6	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F864	800	600	400	Single	P2RA19S8	P2RA19T8	P2GARA4	N/A	N/A	P2AFB19
P2F866	800	600	600	Single	P2RA19S8	P2RA19T8	P2GARA6	N/A	N/A	P2AFB19
P2F888	800	800	800	Single	P2RA19S8	P2RA19T8	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F1064	1000	600	400	Single	P2RA19S10	P2RA19T10	P2GARA4	N/A	N/A	P2AFB19
P2F1065	1000	600	500	Single	P2RA19S10	P2RA19T10	P2GARA5	N/A	N/A	P2AFB19
P2F1066	1000	600	600	Single	P2RA19S10	P2RA19T10	P2GARA6	N/A	N/A	P2AFB19
P2F1085	1000	800	500	Single	P2RA19S10	P2RA19T10	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F1086	1000	800	600	Single	P2RA19S10	P2RA19T10	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F1088	1000	800	800	Single	P2RA19S10	P2RA19T10	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F10125	1000	1200	500	Double	P2RA19S10	P2RA19T10	P2GARA5	N/A	N/A	P2AFB19
P2F1264	1200	600	400	Single	P2RA19S12	P2RA19T12	P2GARA4	N/A	N/A	P2AFB19
P2F1265	1200	600	500	Single	P2RA19S12	P2RA19T12	P2GARA5	N/A	N/A	P2AFB19
P2F1266	1200	600	600	Single	P2RA19S12	P2RA19T12	P2GARA6	N/A	N/A	P2AFB19
P2F1285	1200	800	500	Single	P2RA19S12	P2RA19T12	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F1286	1200	800	600	Single	P2RA19S12	P2RA19T12	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F1288	1200	800	800	Single	P2RA19S12	P2RA19T12	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F12125	1200	1200	500	Double	P2RA19S12	P2RA19T12	P2GARA5	N/A	N/A	P2AFB19
P2F1465	1400	600	500	Single	P2RA19S14	P2RA19T14	P2GARA5	N/A	N/A	P2AFB19
P2F1466	1400	600	600	Single	P2RA19S14	P2RA19T14	P2GARA6	N/A	N/A	P2AFB19
P2F1468	1400	600	800	Single	P2RA19S14	P2RA19T14	P2GARA8	N/A	N/A	P2AFB19
P2F1485	1400	800	500	Single	P2RA19S14	P2RA19T14	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F1486	1400	800	600	Single	P2RA19S14	P2RA19T14	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F1488	1400	800	800	Single	P2RA19S14	P2RA19T14	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F14125	1400	1200	500	Double	P2RA19S14	P2RA19T14	P2GARA5	N/A	N/A	P2AFB19
P2F1664	1600	600	400	Single	P2RA19S16	P2RA19T16	P2GARA4	N/A	N/A	P2AFB19
P2F1665	1600	600	500	Single	P2RA19S16	P2RA19T16	P2GARA5	N/A	N/A	P2AFB19
P2F1666	1600	600	600	Single	P2RA19S16	P2RA19T16	P2GARA6	N/A	N/A	P2AFB19
P2F1668	1600	600	800	Single	P2RA19S16	P2RA19T16	P2GARA8	N/A	N/A	P2AFB19
P2F1684	1600	800	400	Single	P2RA19S16	P2RA19T16	P2GARA4	P2AFRB100	P2AFRB200	P2AFB19
P2F1685	1600	800	500	Single	P2RA19S16	P2RA19T16	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F1686	1600	800	600	Single	P2RA19S16	P2RA19T16	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F1688	1600	800	800	Single	P2RA19S16	P2RA19T16	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F16104	1600	1000	400	Single	P2RA19S16	P2RA19T16	P2GARA4	P2AFRB200	N/A	P2AFB19
P2F16106	1600	1000	600	Single	P2RA19S16	P2RA19T16	P2GARA6	P2AFRB200	N/A	P2AFB19
P2F16124	1600	1200	400	Double	P2RA19S16	P2RA19T16	P2GARA4	N/A	N/A	P2AFB19
P2F16125	1600	1200	500	Double	P2RA19S16	P2RA19T16	P2GARA5	N/A	N/A	P2AFB19

Frame Catalog Number	H (mm)	W (mm)	D (mm)	Bay Count	19-inch Rack Angle (Square Hole)	19-inch Rack Angle (Tapped Hole)	Adjustable Rack-Mount Rails	Frame Reducing Bracket 19-inch Centered	Frame Reducing Bracket 19-inch Justified	Frame Accessory Bracket
P2F16126	1600	1200	600	Double	P2RA19S16	P2RA19T16	P2GARA6	N/A	N/A	P2AFB19
P2F16128	1600	1200	800	Double	P2RA19S16	P2RA19T16	P2GARA8	N/A	N/A	P2AFB19
P2F16164	1600	1600	400	Double	P2RA19S16	P2RA19T16	P2GARA4	N/A	N/A	P2AFB19
P2F16165	1600	1600	500	Double	P2RA19S16	P2RA19T16	P2GARA5	N/A	N/A	P2AFB19
P2F16166	1600	1600	600	Double	P2RA19S16	P2RA19T16	P2GARA6	N/A	N/A	P2AFB19
P2F16168	1600	1600	800	Double	P2RA19S16	P2RA19T16	P2GARA8	N/A	N/A	P2AFB19
P2F1845	1800	400	500	Single	N/A	N/A	N/A	N/A	N/A	P2AFB19
P2F1846	1800	400	600	Single	N/A	N/A	N/A	N/A	N/A	P2AFB19
P2F1864	1800	600	400	Single	P2RA19S18	P2RA19T18	P2GARA4	N/A	N/A	P2AFB19
P2F1865	1800	600	500	Single	P2RA19S18	P2RA19T18	P2GARA5	N/A	N/A	P2AFB19
P2F1866	1800	600	600	Single	P2RA19S18	P2RA19T18	P2GARA6	N/A	N/A	P2AFB19
P2F1868	1800	600	800	Single	P2RA19S18	P2RA19T18	P2GARA8	N/A	N/A	P2AFB19
P2F1884	1800	800	400	Single	P2RA19S18	P2RA19T18	P2GARA4	P2AFRB100	P2AFRB200	P2AFB19
P2F1885	1800	800	500	Single	P2RA19S18	P2RA19T18	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F1886	1800	800	600	Single	P2RA19S18	P2RA19T18	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F1888	1800	800	800	Single	P2RA19S18	P2RA19T18	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F18104	1800	1000	400	Single	P2RA19S18	P2RA19T18	P2GARA4	P2AFRB200	N/A	P2AFB19
P2F18105	1800	1000	500	Single	P2RA19S18	P2RA19T18	P2GARA5	P2AFRB200	N/A	P2AFB19
P2F18106	1800	1000	600	Single	P2RA19S18	P2RA19T18	P2GARA6	P2AFRB200	N/A	P2AFB19
P2F18108	1800	1000	800	Single	P2RA19S18	P2RA19T18	P2GARA8	P2AFRB200	N/A	P2AFB19
P2F18124	1800	1200	400	Double	P2RA19S18	P2RA19T18	P2GARA4	N/A	N/A	P2AFB19
P2F18125	1800	1200	500	Double	P2RA19S18	P2RA19T18	P2GARA5	N/A	N/A	P2AFB19
P2F18126	1800	1200	600	Double	P2RA19S18	P2RA19T18	P2GARA6	N/A	N/A	P2AFB19
P2F18128	1800	1200	800	Double	P2RA19S18	P2RA19T18	P2GARA8	N/A	N/A	P2AFB19
P2F18164	1800	1600	400	Double	P2RA19S18	P2RA19T18	P2GARA4	N/A	N/A	P2AFB19
P2F18165	1800	1600	500	Double	P2RA19S18	P2RA19T18	P2GARA5	N/A	N/A	P2AFB19
P2F18166	1800	1600	600	Double	P2RA19S18	P2RA19T18	P2GARA6	N/A	N/A	P2AFB19
P2F18168	1800	1600	800	Double	P2RA19S18	P2RA19T18	P2GARA8	N/A	N/A	P2AFB19
P2F18185	1800	1800	500	Double	P2RA19S18	P2RA19T18	P2GARA5	N/A	N/A	P2AFB19
P2F18186	1800	1800	600	Double	P2RA19S18	P2RA19T18	P2GARA6	N/A	N/A	P2AFB19
P2F18188	1800	1800	800	Double	P2RA19S18	P2RA19T18	P2GARA8	N/A	N/A	P2AFB19
P2F2045	2000	400	500	Single	N/A	N/A	N/A	N/A	N/A	P2AFB19
P2F2046	2000	400	600	Single	N/A	N/A	N/A	N/A	N/A	P2AFB19
P2F2064	2000	600	400	Single	P2RA19S20	P2RA19T20	P2GARA4	N/A	N/A	P2AFB19
P2F2065	2000	600	500	Single	P2RA19S20	P2RA19T20	P2GARA5	N/A	N/A	P2AFB19
P2F2066	2000	600	600	Single	P2RA19S20	P2RA19T20	P2GARA6	N/A	N/A	P2AFB19
P2F2068	2000	600	800	Single	P2RA19S20	P2RA19T20	P2GARA8	N/A	N/A	P2AFB19
P2F2084	2000	800	400	Single	P2RA19S20	P2RA19T20	P2GARA4	P2AFRB100	P2AFRB200	P2AFB19
P2F2085	2000	800	500	Single	P2RA19S20	P2RA19T20	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19

Frame Catalog Number	**H (mm)**	**W (mm)**	**D (mm)**	**Bay Count**	**19-inch Rack Angle (Square Hole)**	**19-inch Rack Angle (Tapped Hole)**	**Adjustable Rack-Mount Rails**	**Frame Reducing Bracket 19-inch Centered**	**Frame Reducing Bracket 19-inch Justified**	**Frame Accessory Bracket**
P2F2086	2000	800	600	Single	P2RA19S20	P2RA19T20	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F2088	2000	800	800	Single	P2RA19S20	P2RA19T20	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F20810	2000	800	1000	Single	P2RA19S20	P2RA19T20	P2GARA10	P2AFRB100	P2AFRB200	P2AFB19
P2F20105	2000	1000	500	Single	P2RA19S20	P2RA19T20	P2GARA5	P2AFRB200	N/A	P2AFB19
P2F20106	2000	1000	600	Single	P2RA19S20	P2RA19T20	P2GARA6	P2AFRB200	N/A	P2AFB19
P2F20108	2000	1000	800	Single	P2RA19S20	P2RA19T20	P2GARA8	P2AFRB200	N/A	P2AFB19
P2F20124	2000	1200	400	Double	P2RA19S20	P2RA19T20	P2GARA4	N/A	N/A	P2AFB19
P2F20125	2000	1200	500	Double	P2RA19S20	P2RA19T20	P2GARA5	N/A	N/A	P2AFB19
P2F20126	2000	1200	600	Double	P2RA19S20	P2RA19T20	P2GARA6	N/A	N/A	P2AFB19
P2F20128	2000	1200	800	Double	P2RA19S20	P2RA19T20	P2GARA8	N/A	N/A	P2AFB19
P2F20165	2000	1600	500	Double	P2RA19S20	P2RA19T20	P2GARA5	N/A	N/A	P2AFB19
P2F20166	2000	1600	600	Double	P2RA19S20	P2RA19T20	P2GARA6	N/A	N/A	P2AFB19
P2F20168	2000	1600	800	Double	P2RA19S20	P2RA19T20	P2GARA8	N/A	N/A	P2AFB19
P2F20185	2000	1800	500	Double	P2RA19S20	P2RA19T20	P2GARA5	N/A	N/A	P2AFB19
P2F20186	2000	1800	600	Double	P2RA19S20	P2RA19T20	P2GARA6	N/A	N/A	P2AFB19
P2F20188	2000	1800	800	Double	P2RA19S20	P2RA19T20	P2GARA8	N/A	N/A	P2AFB19
P2F2265	2200	600	500	Single	P2RA19S22	P2RA19T22	P2GARA5	N/A	N/A	P2AFB19
P2F2266	2200	600	600	Single	P2RA19S22	P2RA19T22	P2GARA6	N/A	N/A	P2AFB19
P2F2268	2200	600	800	Single	P2RA19S22	P2RA19T22	P2GARA8	N/A	N/A	P2AFB19
P2F2285	2200	800	500	Single	P2RA19S22	P2RA19T22	P2GARA5	P2AFRB100	P2AFRB200	P2AFB19
P2F2286	2200	800	600	Single	P2RA19S22	P2RA19T22	P2GARA6	P2AFRB100	P2AFRB200	P2AFB19
P2F2288	2200	800	800	Single	P2RA19S22	P2RA19T22	P2GARA8	P2AFRB100	P2AFRB200	P2AFB19
P2F22810	2200	800	1000	Single	P2RA19S22	P2RA19T22	P2GARA10	P2AFRB100	P2AFRB200	P2AFB19
P2F22105	2200	1000	500	Single	P2RA19S22	P2RA19T22	P2GARA5	P2AFRB200	N/A	P2AFB19
P2F22106	2200	1000	600	Single	P2RA19S22	P2RA19T22	P2GARA6	P2AFRB200	N/A	P2AFB19
P2F22108	2200	1000	800	Single	P2RA19S22	P2RA19T22	P2GARA8	P2AFRB200	N/A	P2AFB19
P2F22125	2200	1200	500	Double	P2RA19S22	P2RA19T22	P2GARA5	N/A	N/A	P2AFB19
P2F22126	2200	1200	600	Double	P2RA19S22	P2RA19T22	P2GARA6	N/A	N/A	P2AFB19
P2F22128	2200	1200	800	Double	P2RA19S22	P2RA19T22	P2GARA8	N/A	N/A	P2AFB19
P2F22165	2200	1600	500	Double	P2RA19S22	P2RA19T22	P2GARA5	N/A	N/A	P2AFB19
P2F22166	2200	1600	600	Double	P2RA19S22	P2RA19T22	P2GARA6	N/A	N/A	P2AFB19
P2F22168	2200	1600	800	Double	P2RA19S22	P2RA19T22	P2GARA8	N/A	N/A	P2AFB19
P2F22185	2200	1800	500	Double	P2RA19S22	P2RA19T22	P2GARA5	N/A	N/A	P2AFB19
P2F22186	2200	1800	600	Double	P2RA19S22	P2RA19T22	P2GARA6	N/A	N/A	P2AFB19
P2F22188	2200	1800	800	Double	P2RA19S22	P2RA19T22	P2GARA8	N/A	N/A	P2AFB19

Rack Accessories, 19-inch

Accessory	Fits Frame Depth (mm)	Fits Accessory	Rack Units Required
Drawer			
P19DR1US	600-1000		1U
P19DR2US	600-1000		2U
P19DR3US	600-1000		3U
Writing Surface			
P19WS		Drawer	
Pull-Out Shelf			
P19SHP68	600-1000		2U
P19SHP810	800-1000		2U
Screw Package			
AS1032		Rack Angles	
ASM5		Rack Angles	
Cage Nut Package			
P1032CN		Rack Angles	
PM5CN		Rack Angles	
Fixed Shelf			
P2RSH4	400-1000		1U
P2RSH5	500-1000		1U
P2RSH6	600-1000		1U
P2RSH8	800-1000		1U
P2RSH10	1000		1U
Guides			
P2RG4	400		1U
P2RG5	500		1U
P2RG5	600		1U
P2RG8	800		1U
P2RG10	1000		1U
Slides			
A16SL2U	600-1000		3U

Rack Accessories, 19-inch

Accessory	Fits Frame Depth (mm)	Fits Accessory	Rack Units Required
Rack Panels Aluminum			
P19RP1UA			1U
P19RP2UA			2U
P19RP3UA			3U
P19RP4UA			4U
P19RP5UA			5U
P19RP6UA			6U
P19RP7UA			7U
P19RP8UA			8U
P19RP9UA			9U
P19RP10UA			10U
P19RP11UA			11U
P19RP12UA			12U
P19RP16A			16U
Rack Panels, Painted Steel			
P19RP1UP			1U
P19RP2UP			2U
P19RP3UP			3U
P19RP4UP			4U
P19RP5UP			5U
P19RP6UP			6U
P19RP7UP			7U
P19RP8UP			8U
P19RP9UP			9U
P19RP10UP			10U
P19RP11UP			11U
P19RP12UP			12U
P19RP16UP			16U
Filler Panel			
PFP19RA		Rack Angles	
Keyboard Compartment			
A19KBC2			2U
Fan Tray			
A19FT3			1U
A19FT6			1U

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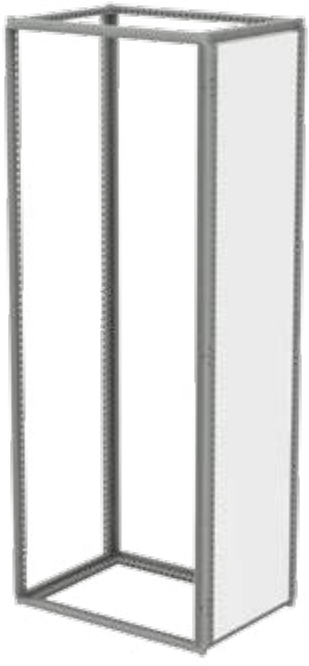
FULL SUBPANEL (REAR OR SIDE)



APPLICATION

The PROLINE G2 Subpanel is part of the new patent pending EZ-Load Mounting System which was designed to maximize space utilization and to make loading the subpanel faster and safer by providing a variety of loading options. The EZ-Load Glide Blocks can be used to load a subpanel vertically from the front, rear or side. Additionally, they can be used to load the subpanel horizontally—a new method for a more controlled option to load a subpanel into a modular enclosure.

FEATURES

- Accommodates five loading options: vertical front, vertical side, vertical rear, horizontal front (frame over subpanel), horizontal rear (subpanel lowered into frame)
- Large mounting subpanel; maximum internal space efficiency
- Mounting subpanel is securely fastened at the top and bottom of the enclosure

SPECIFICATIONS

- Subpanels systems less than 1200mm wide include four sets of EZ-Load Glide Blocks, four BV-M6 fasteners (block to frame) and four M12 Hex Bolts (subpanel to block)
- Subpanel systems 1200mm and greater include eight sets of EZ Load Glide Blocks, eight BV-M6 fasteners (block to frame) and eight M12 Hex Bolts (subpanel to block) to ensure wider subpanels are well supported
- Subpanels can be mounted at any depth in 25-mm increments (front to back)
- Accommodates back-to-back subpanels and fully recessed rear position
- Panels can be installed in the rearmost position, or positioned so joined enclosures provide a continuous mounting surface without requiring joining panels
- High space efficiency ratio (HxW of subpanel)/(HxW of frame) of 84 percent
- Side-mount panels must be used for the sides of the enclosure; they can be installed on the interior sides of frames
- Widths of 1200 mm are 10 gauge (3.0 mm) mild steel; widths less than 1200 mm are 12 gauge (2.5 mm)
- Conductive (galvanized/plated) or painted options
- Optional panel support bracket available for applications requiring more support in the center of the subpanel; this is required if the enclosure will be tipped in transit or if the panel is not located at the bottom of the enclosure on the glide blocks
- Optional panel support brace for the bottom of the enclosure provides additional support for heavy loads

FINISH

- Painted polyester powder paint; white
- Custom colors available

LOAD RATING

- 2000 lbs (907 kg), safety factor 2.5; frame size: 2000x600x800 mm (load ratings vary by frame size)

ACCESSORIES

Joining Subpanel, page 549
Panel Support Bracket, page 550
Panel Support Brace, page 550

BULLETIN: P40

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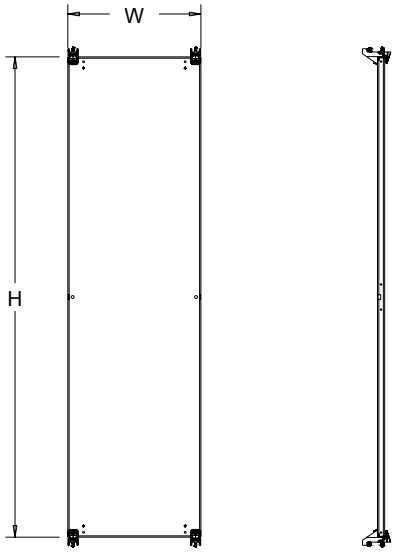
Standard Product **Rear Mount**

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Gauge	Fits Frame H x W (mm)	Description
P2P66	506	19.9	528	20.8	12	600x600	Painted
P2P66G	506	19.9	528	20.8	12	600x600	Conductive
P2P68	506	19.9	728	28.7	12	600x800	Painted
P2P68G	506	19.9	728	28.7	12	600x800	Conductive
P2P86	706	27.8	528	20.8	12	800x600	Painted
P2P86G	706	27.8	528	20.8	12	800x600	Conductive
P2P88	706	27.8	728	28.7	12	800x800	Painted
P2P88G	706	27.8	728	28.7	12	800x800	Conductive
P2P106	906	35.7	528	20.8	12	1000x600	Painted
P2P106G	906	35.7	528	20.8	12	1000x600	Conductive
P2P108	906	35.7	728	28.7	12	1000x800	Painted
P2P108G	906	35.7	728	28.7	12	1000x800	Conductive
P2P1012	906	35.7	1128	44.4	10	1000x1200	Painted
P2P1012G	906	35.7	1128	44.4	10	1000x1200	Conductive
P2P126	1106	43.6	528	20.8	12	1200x600	Painted
P2P126G	1106	43.6	528	20.8	12	1200x600	Conductive
P2P128	1106	43.6	728	28.7	12	1200x800	Painted
P2P128G	1106	43.6	728	28.7	12	1200x800	Conductive
P2P1212	1106	43.6	1128	44.4	10	1200x1200	Painted
P2P1212G	1106	43.6	1128	44.4	10	1200x1200	Conductive
P2P146	1306	51.4	528	20.8	12	1400x600	Painted
P2P146G	1306	51.4	528	20.8	12	1400x600	Conductive
P2P148	1306	51.4	728	28.7	12	1400x800	Painted
P2P148G	1306	51.4	728	28.7	12	1400x800	Conductive
P2P1412	1306	51.4	1128	44.4	10	1400x1200	Painted
P2P1412G	1306	51.4	1128	44.4	10	1400x1200	Conductive
P2P166	1506	59.3	528	20.8	12	1600x600	Painted
P2P166G	1506	59.3	528	20.8	12	1600x600	Conductive
P2P168	1506	59.3	728	28.7	12	1600x800	Painted
P2P168G	1506	59.3	728	28.7	12	1600x800	Conductive
P2P1610	1506	59.3	928	36.5	12	1600x1000	Painted
P2P1610G	1506	59.3	928	36.5	12	1600x1000	Conductive
P2P1612	1506	59.3	1128	44.4	10	1600x1200	Painted
P2P1612G	1506	59.3	1128	44.4	10	1600x1200	Conductive
P2P1616	1506	59.3	1528	60.2	10	1600x1600	Painted
P2P1616G	1506	59.3	1528	60.2	10	1600x1600	Conductive
P2P184	1706	67.2	328	12.9	12	1800x400	Painted
P2P184G	1706	67.2	328	12.9	12	1800x400	Conductive
P2P186	1706	67.2	528	20.8	12	1800x600	Painted
P2P186G	1706	67.2	528	20.8	12	1800x600	Conductive
P2P188	1706	67.2	728	28.7	12	1800x800	Painted
P2P188G	1706	67.2	728	28.7	12	1800x800	Conductive
P2P1810	1706	67.2	928	36.5	12	1800x1000	Painted
P2P1810G	1706	67.2	928	36.5	12	1800x1000	Conductive
P2P1812	1706	67.2	1128	44.4	10	1800x1200	Painted
P2P1812G	1706	67.2	1128	44.4	10	1800x1200	Conductive
P2P1816	1706	67.2	1528	60.2	10	1800x1600	Painted
P2P1816G	1706	67.2	1528	60.2	10	1800x1600	Conductive
P2P1818	1706	67.2	1728	68.0	10	1800x1800	Painted
P2P1818G	1706	67.2	1728	68.0	10	1800x1800	Conductive
P2P204	1906	75.1	328	12.9	12	2000x400	Painted
P2P204G	1906	75.1	328	12.9	12	2000x400	Conductive
P2P206	1906	75.1	528	20.8	12	2000x600	Painted
P2P206G	1906	75.1	528	20.8	12	2000x600	Conductive
P2P208	1906	75.1	728	28.7	12	2000x800	Painted
P2P208G	1906	75.1	728	28.7	12	2000x800	Conductive
P2P2010	1906	75.1	928	36.5	12	2000x1000	Painted
P2P2010G	1906	75.1	928	36.5	12	2000x1000	Conductive
P2P2012	1906	75.1	1128	44.4	10	2000x1200	Painted
P2P2012G	1906	75.1	1128	44.4	10	2000x1200	Conductive
P2P2016	1906	75.1	1528	60.2	10	2000x1600	Painted
P2P2016G	1906	75.1	1528	60.2	10	2000x1600	Conductive
P2P2018	1906	75.1	1728	68.0	10	2000x1800	Painted
P2P2018G	1906	75.1	1728	68.0	10	2000x1800	Conductive
P2P226	2106	82.9	528	20.8	12	2200x600	Painted
P2P226G	2106	82.9	528	20.8	12	2200x600	Conductive
P2P228	2106	82.9	728	28.7	12	2200x800	Painted
P2P228G	2106	82.9	728	28.7	12	2200x800	Conductive
P2P2210	2106	82.9	928	36.5	12	2200x1000	Painted
P2P2210G	2106	82.9	928	36.5	12	2200x1000	Conductive
P2P2212	2106	82.9	1128	44.4	10	2200x1200	Painted
P2P2212G	2106	82.9	1128	44.4	10	2200x1200	Conductive
P2P2216	2106	82.9	1528	60.2	10	2200x1600	Painted
P2P2216G	2106	82.9	1528	60.2	10	2200x1600	Conductive
P2P2218	2106	82.9	1728	68.0	10	2200x1800	Painted
P2P2218G	2106	82.9	1728	68.0	10	2200x1800	Conductive

Standard Product **Side Mount**

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Gauge	Fits Frame H x W	Description
P2PSM64	527	20.7	253	10.0	12	600x400	Painted
P2PSM64G	527	20.7	253	10.0	12	600x400	Conductive
P2PSM66	527	20.7	453	17.8	12	600x600	Painted
P2PSM66G	527	20.7	453	17.8	12	600x600	Conductive
P2PSM68	527	20.7	653	25.7	12	600x800	Painted
P2PSM68G	527	20.7	653	25.7	12	600x800	Conductive
P2PSM86	727	28.6	453	17.8	12	800x600	Painted
P2PSM86G	727	28.6	453	17.8	12	800x600	Conductive
P2PSM88	727	28.6	653	25.7	12	800x800	Painted
P2PSM88G	727	28.6	653	25.7	12	800x800	Conductive
P2PSM105	927	36.5	353	13.9	12	1000x500	Painted
P2PSM105G	927	36.5	353	13.9	12	1000x500	Conductive
P2PSM106	927	36.5	453	17.8	12	1000x600	Painted
P2PSM106G	927	36.5	453	17.8	12	1000x600	Conductive
P2PSM108	927	36.5	653	25.7	12	1000x800	Painted
P2PSM108G	927	36.5	653	25.7	12	1000x800	Conductive
P2PSM125	1127	44.4	353	13.9	12	1200x500	Painted
P2PSM125G	1127	44.4	353	13.9	12	1200x500	Conductive
P2PSM126	1127	44.4	453	17.8	12	1200x600	Painted
P2PSM126G	1127	44.4	453	17.8	12	1200x600	Conductive
P2PSM128	1127	44.4	653	25.7	12	1200x800	Painted
P2PSM128G	1127	44.4	653	25.7	12	1200x800	Conductive
P2PSM145	1327	52.2	353	13.9	12	1400x500	Painted
P2PSM145G	1327	52.2	353	13.9	12	1400x500	Conductive
P2PSM146	1327	52.2	453	17.8	12	1400x600	Painted
P2PSM146G	1327	52.2	453	17.8	12	1400x600	Conductive
P2PSM148	1327	52.2	653	25.7	12	1400x800	Painted
P2PSM148G	1327	52.2	653	25.7	12	1400x800	Conductive
P2PSM164	1527	60.1	253	10.0	12	1600x400	Painted
P2PSM164G	1527	60.1	253	10.0	12	1600x400	Conductive
P2PSM165	1527	60.1	353	13.9	12	1600x500	Painted
P2PSM165G	1527	60.1	353	13.9	12	1600x500	Conductive
P2PSM166	1527	60.1	453	17.8	12	1600x600	Painted
P2PSM166G	1527	60.1	453	17.8	12	1600x600	Conductive
P2PSM168	1527	60.1	653	25.7	12	1600x800	Painted
P2PSM168G	1527	60.1	653	25.7	12	1600x800	Conductive
P2PSM184	1727	68.0	253	10.0	12	1800x400	Painted
P2PSM184G	1727	68.0	253	10.0	12	1800x400	Conductive
P2PSM185	1727	68.0	353	13.9	12	1800x500	Painted
P2PSM185G	1727	68.0	353	13.9	12	1800x500	Conductive
P2PSM186	1727	68.0	453	17.8	12	1800x600	Painted
P2PSM186G	1727	68.0	453	17.8	12	1800x600	Conductive
P2PSM188	1727	68.0	653	25.7	12	1800x800	Painted
P2PSM188G	1727	68.0	653	25.7	12	1800x800	Conductive
P2PSM204	1927	75.9	253	10.0	12	2000x400	Painted
P2PSM204G	1927	75.9	253	10.0	12	2000x400	Conductive
P2PSM205	1927	75.9	353	13.9	12	2000x500	Painted
P2PSM205G	1927	75.9	353	13.9	12	2000x500	Conductive
P2PSM206	1927	75.9	453	17.8	12	2000x600	Painted
P2PSM206G	1927	75.9	453	17.8	12	2000x600	Conductive
P2PSM208	1927	75.9	653	25.7	12	2000x800	Painted
P2PSM208G	1927	75.9	653	25.7	12	2000x800	Conductive
P2PSM2010	1927	75.9	853	33.6	12	2000x1000	Painted
P2PSM2010G	1927	75.9	853	33.6	12	2000x1000	Conductive
P2PSM224	2127	83.7	253	10.0	12	2200x400	Painted
P2PSM224G	2127	83.7	253	10.0	12	2200x400	Conductive
P2PSM225	2127	83.7	353	13.9	12	2200x500	Painted
P2PSM225G	2127	83.7	353	13.9	12	2200x500	Conductive
P2PSM226	2127	83.7	453	17.8	12	2200x600	Painted
P2PSM226G	2127	83.7	453	17.8	12	2200x600	Conductive
P2PSM228	2127	83.7	653	25.7	12	2200x800	Painted
P2PSM228G	2127	83.7	653	25.7	12	2200x800	Conductive
P2PSM2210	2127	83.7	853	33.6	12	2200x1000	Painted
P2PSM2210G	2127	83.7	853	33.6	12	2200x1000	Conductive



Model	Component	Type	Height	Width/Depth*	Specialty		Catalog Number
P2	P	Blank	20	8	G	=	P2P208G

Model: PROLINE G2

Component: Mounting Subpanel

Type:
- Blank = full subpanel
- SM = full, side-mount
- J = joining
- P = partial
- PSM = partial, side-mount
- SO = swing-out

Height: mm
- 22 = 2200
- 20 = 2000
- 18 = 1800
- 16 = 1600
- 14 = 1400
- 12 = 1200
- 10 = 1000
- 8 = 800
- 6 = 600

Width/Depth*: mm
- 18 = 1800
- 16 = 1600
- 14 = 1400
- 12 = 1200
- 10 = 1000
- 8 = 800
- 6 = 600
- 4 = 400

Specialty:
- Blank = painted
- G = galvanized

*Width used for full subpanels, partial and swing-out panels; depth used for side mount and partial side mount subpanels; joining subpanels only use height (not width or depth)

NOTE: Not every combination is available as a standard product.

EZ-LOAD GLIDE BLOCKS

APPLICATION

A complete set of PROLINE G2 EZ-Load Glide Blocks is included with every PROLINE G2 Full Mounting Subpanel and PROLINE G2 Industrial Packages. This set of four additional blocks can be used if a replacement set is needed.

FEATURES

- Can be used to load a subpanel vertically from the front, rear or side.
- Can be used to load a subpanel while it is horizontal (i.e. on a table).
- Ensures subpanel is securely bolted to the frame in all four corners.

SPECIFICATIONS

- For vertical front loading, the front glide blocks use the frame rails as a guide. Shaped to fit over the frame rails, the glide blocks ensure the subpanel inserts smoothly and easily into the desired location within the enclosure.
- The rear glide blocks can be attached to the enclosure prior to the subpanel insertion, so the end position of the subpanel can easily and accurately predetermined.
- For horizontal loading, the frame can be lowered over the mounting subpanel . In this configuration the load of the subpanel is in a safe, static state. The EZ-Load Glide Blocks can then be easily fastened to the frame and subpanel.
- If the subpanel is used in the rearmost position, the rear glide blocks will not be used.
- If two subpanels are used in the enclosure in a back-to-back position the rear glide blocks will not be used.
- Made from a high performing glass re-enforced polymer
- Attaches to the frame using BV-M6 fasteners; attaches to the subpanel using hex bolts.
- Mounting hardware included

BULLETIN: P40

Catalog Number	Description	Pkg. Qty.
P2AGBHK	EZ-LOAD Glide Blocks	4

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PARTIAL SUBPANEL AND SIDE-MOUNT PANEL

APPLICATION

Partial Subpanels can be used on the sides of a modular enclosure or placed at any depth in 25-mm increments.

FEATURES

- 12 gauge (2.5mm), mild steel or galvanized steel
- Flanges on all four sides

SPECIFICATIONS

- Partial subpanels can be placed in the rearmost position of the enclosure at any vertical height in 25-mm increments, or placed at any depth using grid straps (not included)
- Side-mount partial subpanels can be placed on either side at any vertical height in 25-mm increments.
- All necessary mounting hardware is included

FINISH

- Painted polyester powder paint; white
- Custom colors available

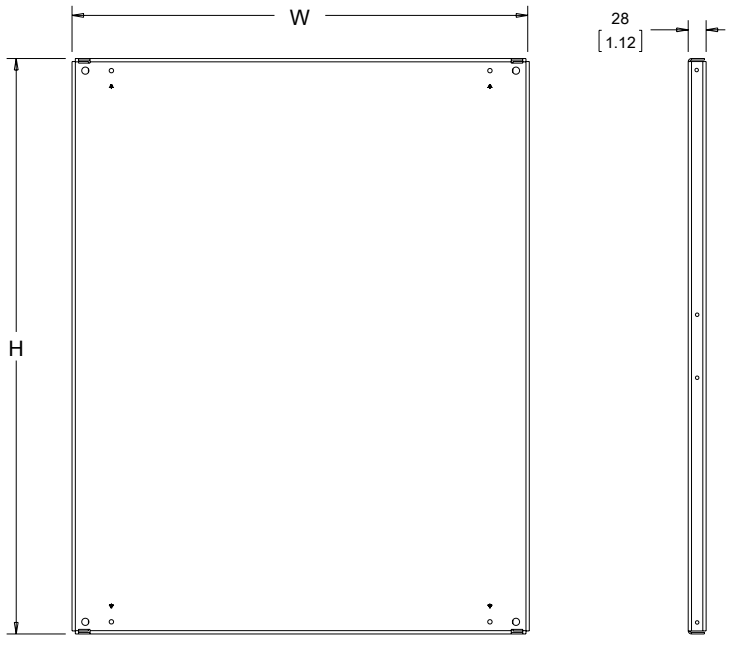
BULLETIN: P40

Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	P	P	9	8	G	=	P2PP98G
PROLINE G2	Mounting Subpanel	Blank = full subpanel SM = full, side-mount J = joining P = partial PSM = partial, side-mount SO = swing-out	mm 11 = 1100 9 = 900 7 = 700 5 = 500	mm 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	Blank = painted G = galvanized		

NOTE: Not every combination is available as a standard product.

Standard Product **Front- or Rear-Mount Partial Subpanels**

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame HxW (mm)	Description
P2PP54	514	20.2	326	12.8	500x400	Painted
P2PP54G	514	20.2	326	12.8	500x400	Conductive
P2PP56	514	20.2	526	20.7	500x600	Painted
P2PP56G	514	20.2	526	20.7	500x600	Conductive
P2PP58	514	20.2	726	28.6	500x800	Painted
P2PP58G	514	20.2	726	28.6	500x800	Conductive
P2PP510	514	20.2	926	36.5	500x1000	Painted
P2PP510G	514	20.2	926	36.5	500x1000	Conductive
P2PP512	514	20.2	1126	44.3	500x1200	Painted
P2PP512G	514	20.2	1126	44.3	500x1200	Conductive
P2PP74	714	28.1	326	12.8	700x400	Painted
P2PP74G	714	28.1	326	12.8	700x400	Conductive
P2PP76	714	28.1	526	20.7	700x600	Painted
P2PP76G	714	28.1	526	20.7	700x600	Conductive
P2PP78	714	28.1	726	28.6	700x800	Painted
P2PP78G	714	28.1	726	28.6	700x800	Conductive
P2PP710	714	28.1	926	36.5	700x1000	Painted
P2PP710G	714	28.1	926	36.5	700x1000	Conductive
P2PP712	714	28.1	1126	44.3	700x1200	Painted
P2PP712G	714	28.1	1126	44.3	700x1200	Conductive
P2PP94	914	36.0	326	12.8	900x400	Painted
P2PP94G	914	36.0	326	12.8	900x400	Conductive
P2PP96	914	36.0	526	20.7	900x600	Painted
P2PP96G	914	36.0	526	20.7	900x600	Conductive
P2PP98	914	36.0	726	28.6	900x800	Painted
P2PP98G	914	36.0	726	28.6	900x800	Conductivev
P2PP910	914	36.0	926	36.5	900x1000	Painted
P2PP910G	914	36.0	926	36.5	900x1000	Conductive
P2PP912	914	36.0	1126	44.3	900x1200	Painted
P2PP912G	914	36.0	1126	44.3	900x1200	Conductive
P2PP114	1114	43.8	326	12.8	1100x400	Painted
P2PP114G	1114	43.8	326	12.8	1100x400	Conductive
P2PP116	1114	43.8	526	20.7	1100x600	Painted
P2PP116G	1114	43.8	526	20.7	1100x600	Conductive
P2PP118	1114	43.8	726	28.6	1100x800	Painted
P2PP118G	1114	43.8	726	28.6	1100x800	Conductive
P2PP1110	1114	43.8	926	36.5	1100x1000	Painted
P2PP1110G	1114	43.8	926	36.5	1100x1000	Conductive
P2PP1112	1114	43.8	1126	44.3	1100x1200	Painted
P2PP1112G	1114	43.8	1126	44.3	1100x1200	Conductive



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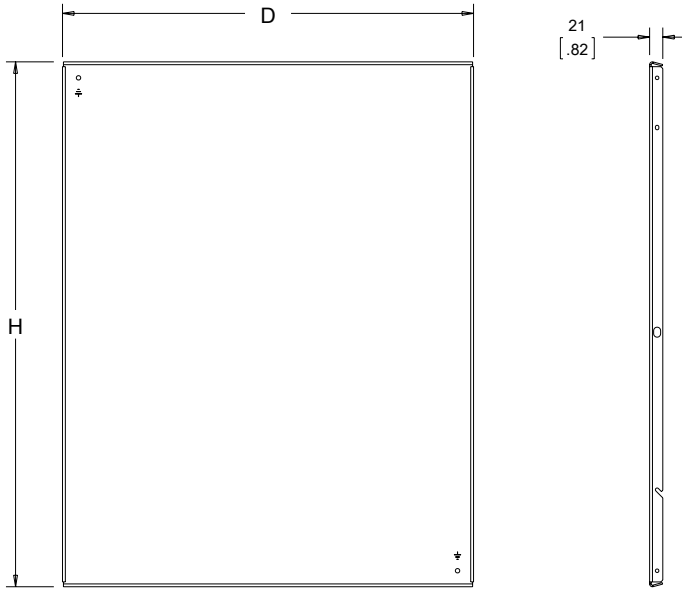
Standard Product **Side-Mount Partial Subpanels**

Catalog Number	H (mm)	H (in.)	D (mm)	D (in.)	Fits Frame HxD (mm)	Description
P2PPSM54	433	17.0	253	10.0	500x400	Painted
P2PPSM54G	433	17.0	253	10.0	500x400	Conductive
P2PPSM55	433	17.0	353	13.9	500x500	Painted
P2PPSM55G	433	17.0	353	13.9	500x500	Conductive
P2PPSM56	433	17.0	453	17.8	500x600	Painted
P2PPSM56G	433	17.0	453	17.8	500x600	Conductive
P2PPSM58	433	17.0	653	25.7	500x800	Painted
P2PPSM58G	433	17.0	653	25.7	500x800	Conductive
P2PPSM510	433	17.0	853	33.6	500x1000	Painted
P2PPSM510G	433	17.0	853	33.6	500x1000	Conductive
P2PPSM74	633	24.9	253	10.0	700x400	Painted
P2PPSM74G	633	24.9	253	10.0	700x400	Conductive
P2PPSM75	633	24.9	353	13.9	700x500	Painted
P2PPSM75G	633	24.9	353	13.9	700x500	Conductive
P2PPSM76	633	24.9	453	17.8	700x600	Painted
P2PPSM76G	633	24.9	453	17.8	700x600	Conductive
P2PPSM78	633	24.9	653	25.7	700x800	Painted
P2PPSM78G	633	24.9	653	25.7	700x800	Conductive
P2PPSM710	633	24.9	853	33.6	700x1000	Painted
P2PPSM710G	633	24.9	853	33.6	700x1000	Conductive
P2PPSM94	833	32.8	253	10.0	900x400	Painted
P2PPSM94G	833	32.8	253	10.0	900x400	Conductive
P2PPSM95	833	32.8	353	13.9	900x500	Painted
P2PPSM95G	833	32.8	353	13.9	900x500	Conductive
P2PPSM96	833	32.8	453	17.8	900x600	Painted
P2PPSM96G	833	32.8	453	17.8	900x600	Conductive
P2PPSM98	833	32.8	653	25.7	900x800	Painted
P2PPSM98G	833	32.8	653	25.7	900x800	Conductive
P2PPSM910	833	32.8	853	33.6	900x1000	Painted
P2PPSM910G	833	32.8	853	33.6	900x1000	Conductive
P2PPSM114	1033	40.7	253	10.0	1100x400	Painted
P2PPSM114G	1033	40.7	253	10.0	1100x400	Conductive
P2PPSM115	1033	40.7	353	13.9	1100x500	Painted
P2PPSM115G	1033	40.7	353	13.9	1100x500	Conductive
P2PPSM116	1033	40.7	453	17.8	1100x600	Painted
P2PPSM116G	1033	40.7	453	17.8	1100x600	Conductive
P2PPSM118	1033	40.7	653	25.7	1100x800	Painted
P2PPSM118G	1033	40.7	653	25.7	1100x800	Conductive
P2PPSM1110	1033	40.7	853	33.6	1100x1000	Painted
P2PPSM1110G	1033	40.7	853	33.6	1100x1000	Conductive



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SWING-OUT PANEL

APPLICATION

The PROLINE G2 Swing-Out Mounting Subpanel (Mounting Plate) allows a front-mounted subpanel to pivot out of a modular enclosure frame opening.

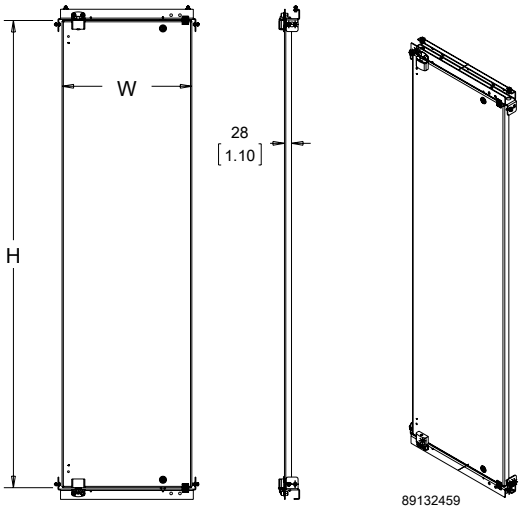
FEATURES

- Panels provide 170 degrees of rotation, with capability to hinge from the right or left side
- Spring-loaded pivot post allows for easy installation
- Conductive or painted versions available

FINISH

Painted versions:

- Painted polyester powder paint; white
- Custom colors available



BULLETIN: P40

Standard Product

Catalog Number	H mm/in.	W mm/in.	Fits Frame HxW mm	Finish
P2PS0126	1145 45.1	547 21.5	1200 x 600	Painted
P2PS0126G	1145 45.1	547 21.5	1200 x 600	Conductive
P2PS0128	1145 45.1	747 29.4	1200 x 800	Painted
P2PS0128G	1145 45.1	747 29.4	1200 x 800	Conductive
P2PS0146	1345 53.0	547 21.5	1400 x 600	Painted
P2PS0146G	1345 53.0	547 21.5	1400 x 600	Conductive
P2PS0148	1345 53.0	747 29.4	1400 x 800	Painted
P2PS0148G	1345 53.0	747 29.4	1400 x 800	Conductive
P2PS0166	1545 60.8	547 21.5	1600 x 600	Painted
P2PS0166G	1545 60.8	547 21.5	1600 x 600	Conductive
P2PS0168	1545 60.8	747 29.4	1600 x 800	Painted
P2PS0168G	1545 60.8	747 29.4	1600 x 800	Conductive
P2PS0186	1745 68.7	547 21.5	1800 x 600	Painted
P2PS0186G	1745 68.7	547 21.5	1800 x 600	Conductive
P2PS0188	1745 68.7	747 29.4	1800 x 800	Painted
P2PS0188G	1745 68.7	747 29.4	1800 x 800	Conductive
P2PS0206	1945 76.6	547 21.5	2000 x 600	Painted

Catalog Number	H mm/in.	W mm/in.	Fits Frame HxW mm	Finish
P2PSO206G	1945 76.6	547 21.5	2000 x 600	Conductive
P2PSO208	1945 76.6	747 29.4	2000 x 800	Painted
P2PSO208G	1945 76.6	747 29.4	2000 x 800	Conductive
P2PSO226	2145 84.5	547 21.5	2200 x 600	Painted
P2PSO226G	2145 84.5	547 21.5	2200 x 600	Conductive
P2PSO228	2145 84.5	747 29.4	2200 x 800	Painted
P2PSO228G	2145 84.5	747 29.4	2200 x 800	Conductive

Model	Component	Type	Height	Width	Specialty		Catalog Number
P2	P	SO	20	8	G	=	P2PSO208G
PROLINE G2	Mounting Subpanel	Blank = full subpanel SM = full, side-mount J = joining P = partial PSM = partial, side-mount SO = swing-out	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	mm 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600 4 = 400	Blank = painted G = galvanized		

JOINING SUBPANEL

APPLICATION

The PROLINE G2 Joining Subpanel provides a continuous panel surface in multiple-bay enclosures. The joining subpanel is inserted between full subpanels of equal height. It can be installed from front or rear.

FEATURES

- Provides a continuous panel surface in multiple bay enclosures
- Can be inserted between full mounting subpanels of equal height
- Painted or galvanized options

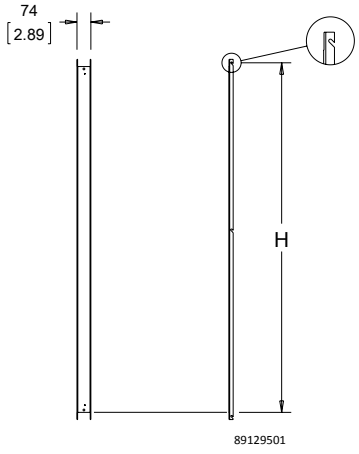
SPECIFICATIONS

- Can be installed from front or rear
- Subpanels can be mounted at any depth in 25-mm increments (front to back)
- Heights greater than or equal to 1400 mm are 10 gauge (3.0 mm) mild steel; heights less than 1400mm are 12 gauge (2.5 mm)

FINISH

For painted versions:

- Painted polyester powder paint; white
- Custom colors available



BULLETIN: P40

Catalog Number	H (mm)	H (in.)	Fits Frame Height mm	Description
P2PJ6	506	19.9	600	Painted
P2PJ6G	506	19.9	600	Conductive
P2PJ8	706	27.8	800	Painted
P2PJ8G	706	27.8	800	Conductive
P2PJ10	906	35.7	1000	Painted
P2PJ10G	906	35.7	1000	Conductive
P2PJ12	1106	43.5	1200	Painted
P2PJ12G	1106	43.5	1200	Conductive
P2PJ14	1306	51.4	1400	Painted
P2PJ14G	1306	51.4	1400	Conductive
P2PJ16	1506	59.3	1600	Painted
P2PJ16G	1506	59.3	1600	Conductive
P2PJ18	1706	67.2	1800	Painted
P2PJ18G	1706	67.2	1800	Conductive
P2PJ20	1906	75.0	2000	Painted
P2PJ20G	1906	75.0	2000	Conductive
P2PJ22	2106	82.9	2200	Painted
P2PJ22G	2106	82.9	2200	Conductive

Model	Component	Type	Height	Specialty		Catalog Number
P2	P	J	20	G	=	P2PJ208G
PROLINE G2	Mounting Subpanel	Blank = full subpanel SM = full, side-mount J = joining P = partial PSM = partial, side-mount SO = swing-out	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600	Blank = painted G = galvanized		

NOTE: Not every combination is available as a standard product.

PANEL SUPPORT BRACKET

APPLICATION

The panel support bracket can be used in the vertical center sides of the PROLINE G2 Mounting Subpanel to provide additional subpanel support.

SPECIFICATIONS

- Set of 2 brackets
- Attaches to frame using BV-M6 fastener
- Attaches to subpanel using a hex bolt
- Mounting hardware included
- Galvanized steel

BULLETIN: P40

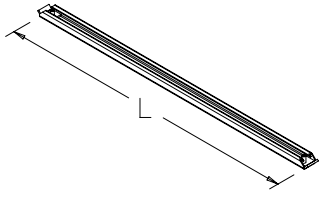
Catalog Number	Description	Qty.
P2APSB	Panel Support Bracket	2

PANEL SUPPORT BRACE

Panel Support Braces give additional support to single- and double-bay panels in heavy loading applications and minimize the vibration created by components mounted on the panel. Braces can be installed on existing systems without removing the panel. Panel support braces are furnished in pairs. Braces are unpainted galvanized steel.

BULLETIN: P20

Catalog Number	L (mm)	L (in.)	Fits Panel Width (mm)
PSB10	911	35.87	1000
PSB12	1111	43.74	1200
PSB16	1511	59.49	1600
PSB18	1711	67.36	1800



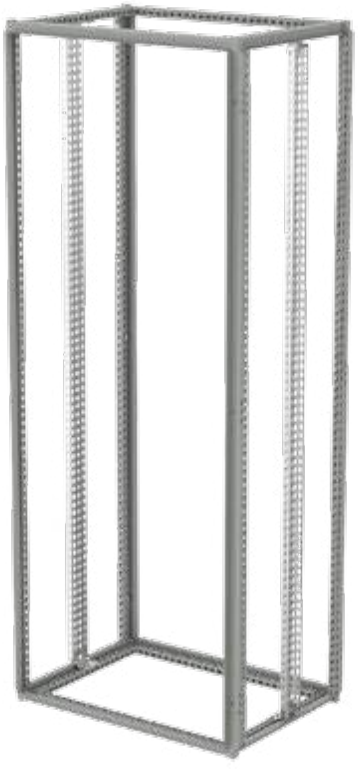
PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

GRID STRAP NETWORK (RAIL SYSTEM)



APPLICATION

PROLINE G2, EZ-Install Grid Straps (Punched Sections) and Full-Height Vertical Grid Straps can be used to form an internal framework in a modular enclosure so that essentially anything can be mounted securely inside—analogous to an industrial 'erector set'. Electrical equipment, shelves, keyboard compartments and cable management accessories can all be mounted easily on the grid strap network, which is created by combining vertically- and horizontally-mounted grid straps.

Includes the BV-M6 fastener (Blind, Variable M6 screw-based fastener), an innovative alternative to cage nuts or self-tapping screws that can cause stripped holes. The fastener combines a screw and nut in one easy-to-handle package. With the BV-M6, you don't need to access the back of the fastener to tighten and the thickness of the item you are attaching need not be predefined. When the BV-M6 is tightened, the embedded nut engages and moves up the screw thread to tighten.

FEATURES

- Quick installation using the patent pending, front load BV-M6 fastener
- Grid strap hooks onto the included brackets and snaps into place for easy installation
- Each bracket can be installed with one BV-M6 fastener (or front-loading cage nut) per side, and one additional BV-M6 fastener per side to secure
- Available with either one row or three rows of holes

SPECIFICATIONS

- Rectangular mounting holes are provided with 25-mm spacing (center-to-center)
- Mounting holes designed to allow the use of BV-M6 fasteners or front-loading cage nuts
- Furnished in pairs with brackets and installation hardware included
- 14 gauge (1.75 mm) steel
- Can be mounted front-to-back, horizontally (depth) across the sides, bottom or top of the frame, or to already-installed grid straps
- Can be mounted left-to-right, horizontally (width) to the frame or to already-installed grid straps.
- Can be mounted vertically between horizontally-mounted grid straps
- Full-Height Vertical Grid Straps can be used to span the full height of the enclosure

FINISH

Plated

ACCESSORIES

Center Upright, page 558
Fastener Packages, page 470

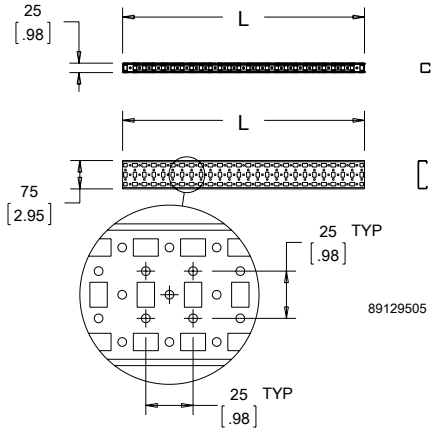
ORDERING

Reference the model key graphic.
Front-to-Back (Depth): When ordering Grid Straps to be used front-to-back, the last digit of the Grid Strap catalog number will be the depth of the enclosure divided by 100.
Side-to-Side (Width): When ordering Grid Straps to be used side-to-side, the last digit of the Grid Strap catalog number will be the width of the enclosure PLUS 100, then divided by 100.

BULLETIN: P40

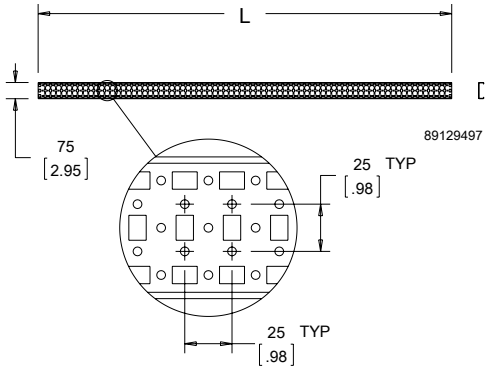
Standard Product **Horizontal Grid Straps**

Catalog Number	L (mm)	L (in.)	Description	Fits Frame Width (mm)	Fits Frame Depth (mm)
P2G1R4	240	9.4	1-Row	---	400
P2G1R5	340	13.4	1-Row	400	500
P2G1R6	440	17.3	1-Row	500	600
P2G1R7	540	21.3	1-Row	600	---
P2G1R8	640	25.2	1-Row	---	800
P2G1R9	740	29.1	1-Row	800	---
P2G1R10	840	33.1	1-Row	---	1000
P2G1R11	940	37.0	1-Row	1000	---
P2G1R13	1140	44.9	1-Row	1200	---
P2G1R15	1340	52.8	1-Row	1400	---
P2G1R17	1540	60.6	1-Row	1600	---
P2G1R19	1740	68.5	1-Row	1800	---
P2G3R4	240	9.4	3-Row	---	400
P2G3R5	340	13.4	3-Row	400	500
P2G3R6	440	17.3	3-Row	500	600
P2G3R7	540	21.3	3-Row	600	---
P2G3R8	640	25.2	3-Row	---	800
P2G3R9	740	29.1	3-Row	800	---
P2G3R10	840	33.1	3-Row	---	1000
P2G3R11	940	37.0	3-Row	1000	---
P2G3R13	1140	44.9	3-Row	1200	---
P2G3R15	1340	52.8	3-Row	1400	---
P2G3R17	1540	60.6	3-Row	1600	---
P2G3R19	1740	68.5	3-Row	1800	---



Standard Product **Vertical Grid Straps**

Catalog Number	L (mm)	L (in.)	Fits Frame (mm) Height
P2GV3R6	515	20.3	600
P2GV3R8	715	28.1	800
P2GV3R10	915	36.0	1000
P2GV3R12	1115	43.9	1200
P2GV3R14	1315	51.8	1400
P2GV3R16	1515	59.6	1600
P2GV3R18	1715	67.5	1800
P2GV3R20	1915	75.4	2000
P2GV3R22	2115	83.3	2200



Model	Component	Type	Length	Catalog Number
P2	G	3R	7	= P2G3R7
PROLINE G2	Grid Accessory	1R = 1 Row 3R = 3 Row AR = Adjustable Rack Mounting Rails	mm 22 = 2200 21 = 2100 20 = 2000 19 = 1900 18 = 1800 17 = 1700 16 = 1600 15 = 1500 14 = 1400 12 = 1200	mm 13 = 1300 12 = 1200 11 = 1100 10 = 1000 9 = 900 8 = 800 7 = 700 6 = 600 5 = 500 4 = 400

NOTE: Not every combination is available as a standard product.

RACK ANGLES OVERVIEW

All Rack Angles have two mounting surfaces that serve as mounts for both rack equipment and rack accessories. Rack Angles are furnished in pairs and are available with tapped holes that directly accommodate 10-32 screws or square holes for use with cage nuts and M5, M6 or 10-32 screws. Rack Angles comply with ANSI/EIA RS-310-D rack mounting standards.

Rack Angles can be mounted directly to the enclosure frame or on grid system straps at almost any depth location. Rack Angles are plated. All mounting hardware to install Rack Angles is included. (Order cage nuts for square hole Rack Angles separately.)

- The standard rack angle position is 44 mm behind the door opening. Rack Angles can be moved forward if desired. Deeper positions require the use of Grid Straps. 1200-mm and 1600-mm wide frames require center uprights to mount Rack Angles in right bay or left bay.
- Shelves, drawer, guides and pull-out shelves require two sets of Rack Angles or frame accessory brackets installed in the frame.

Static Load Notes

It is important to comply with manufacturers' recommendations for rack mounting support.
Follow mounting directions for individual equipment.
Max. 20 lb. (9.1 kg) per rack unit for equipment under 20 in. (508 mm) deep.
Equipment over 20 in. (508 mm) deep or over 20 lb. (9.1 kg) per rack unit requires rear support.

19-INCH RACK ANGLES

APPLICATION

19-in. Rack Angles can easily be mounted in a modular enclosure. Furnished in pairs, Rack Angles have two mounting surfaces (left and right) that serve as mounts for both rack equipment and rack accessories. Rack Angles can be attached to the frame in the front and/or the back. Adjustable Rack-Mounting Rails can be used to position Rack Angles anywhere within the modular enclosure frame.

FEATURES

- Comply with ANSI/EI A RS-310-D rack mounting standards
- Can be mounted directly to the enclosure frame or in almost any location using Adjustable Rack-Mounting Rails or Grid Straps.
- Furnished in pairs and are available with tapped holes that directly accommodate 10-32 screws or square holes for use with cage nuts and M5, M6 or 10-32 screws

SPECIFICATIONS

- Tapped Rack Angles are 12 gauge (2.5mm) steel with 10-32 tapped holes
- Square-Hole Rack Angles are 14 gauge (1.75 mm) steel designed to accept metric or English cage nuts
- Attach directly into a 600-mm wide enclosure frame
- To mount in 800-mm wide frames, use frame reducing brackets (not included) or Adjustable Rack-Mounting Rails
- 1200-mm wide frames require center uprights (not included) to mount in right or left section; 1600-mm wide frames require both center uprights and two sets of Frame Reducing Brackets or Adjustable Rack-Mounting Rails
- Optional rack mounted shelves, drawers, guides and pull-out shelves require two sets of Rack Angles or Frame Accessory Brackets installed in the frame
- All mounting hardware to install Rack Angles to the frame is included (Hardware to attach items to the Rack Angles are either included with the item or purchased separately if necessary)

FINISH

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LOAD RATING

- 20 lbs. (9.1 kg) per rack unit for equipment under 20 in. (508 mm) deep
- Equipment over 20 in. (508 mm) deep or over 20 lb. (9.1 kg) per rack unit requires rear support

ACCESSORIES

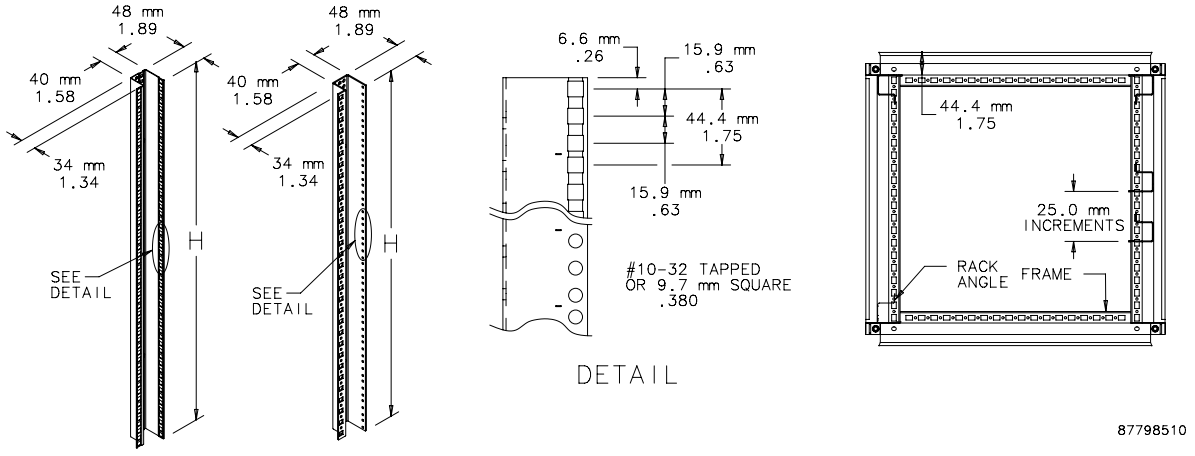
Frame Reducing Brackets, page 556
Adjustable Rack-Mounting Rails, page 556
Frame Accessory Brackets, page 565
Rack Angle Adapter Bracket, page 557
Center Upright, page 558
Filler Panel Kit, page 562
Screw Package, page 559
Cage Nut Package, page 559

BULLETIN: P40

Standard Product

Catalog Number	Hole Type	H (mm)	H (in.)	Fits Frame Height (mm)	Rack Units
P2RA19S6	Square	490	19.3	600	11
P2RA19T6	Tapped	490	19.3	600	11
P2RA19S8	Square	667	26.3	800	15
P2RA19T8	Tapped	667	26.3	800	15
P2RA19S10	Square	890	35.0	1000	20
P2RA19T10	Tapped	890	35.0	1000	20
P2RA19S12	Square	1067	42.0	1200	24
P2RA19T12	Tapped	1067	42.0	1200	24
P2RA19S14	Square	1290	50.8	1400	29
P2RA19T14	Tapped	1290	50.8	1400	29
P2RA19S16	Square	1467	57.8	1600	33
P2RA19T16	Tapped	1467	57.8	1600	33
P2RA19S18	Square	1690	66.5	1800	38
P2RA19T18	Tapped	1690	66.5	1800	38
P2RA19S20	Square	1867	73.5	2000	42
P2RA19T20	Tapped	1867	73.5	2000	42
P2RA19S22	Square	2090	82.3	2200	47
P2RA19T22	Tapped	2090	82.3	2200	47

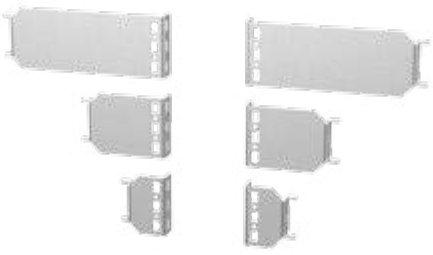
Frame height dimensions are nominal mm.



Model	Component	Type	Specialty	Height		Catalog Number
P2	R	A19	S	20	=	P2RA19S20
PROLINE G2	Rack Accessory	A19 = 19" rack angle SFH = swing frame, heavy-duty	Blank = standard S = square *(19" rack angle only)* T = tapped *(19" rack angle only)*	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 12 = 1200 10 = 1000 8 = 800 6 = 600		

NOTE: Not every combination is available as a standard product.

FRAME REDUCING BRACKETS



APPLICATION

- Frame-Reducing Brackets are used to reduce wider frames to 600mm, allowing 19-in. rack angles to fit
- Brackets can also be used to left- or right- justify rack-mounted equipment

SPECIFICATIONS

- Furnished in sets of four
- 14 gauge (1.75 mm) steel
- Mounting hardware included

FINISH

Plated

BULLETIN: P40

Catalog Number	D (mm)	D (in.)	Converts Frame Width (mm)
P2AFRB50	50	2.0	From 800 to 700
P2AFRB100	100	3.9	From 800 to 600
P2AFRB200	200	7.9	From 1000 to 600

ADJUSTABLE RACK-MOUNTING RAILS

APPLICATION

PROLINE G2 Adjustable Rack-Mounting Rails allow 19-in. Rack Angles to be positioned anywhere within the modular enclosure frame.

SPECIFICATIONS

- Includes two right-hand and two left-hand mounting rails
- 12 gauge (2.5 mm) steel
- Mounting hardware is included

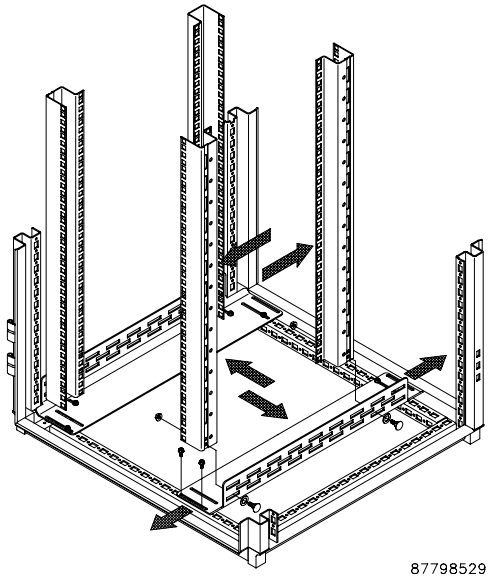
FINISH

Plated

BULLETIN: P40

Catalog Number	Fits Frame Depth mm/in.
P2GARA4	400
P2GARA5	500
P2GARA6	600
P2GARA8	800
P2GARA10	1000

Frame Depth dimensions are nominal mm.



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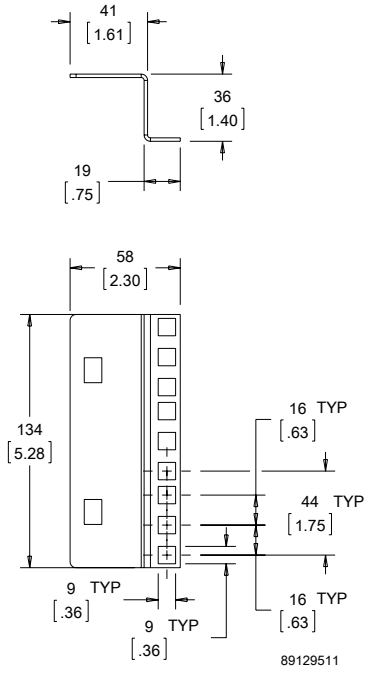
FRAME ACCESSORY BRACKETS

Catalog Number	Description
P2AFB19	19-in. Frame Accessory Bracket



APPLICATION

Frame Accessory Brackets mount directly to the PROLINE G2 frame and are used in place of rack angles to mount rack accessories such as shelves and pull-out shelves.

SPECIFICATIONS

- Furnished in sets of four
- 14-gauge (1.75 mm) steel
- Mounting hardware included

FINISH

Plated

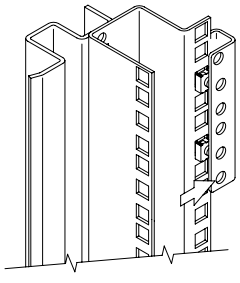
BULLETIN: P40

RACK ANGLE ADAPTER BRACKET

Rack Angle Adapter Brackets mount to PROLINE and PROLINE G2 Rack Angles. They bring out the rear leg mounting surface to allow traditional Rack Mount Slides (A16SL2U, sold separately) to be used. Fits tapped or through-hole PROLINE and PROLINE G2 Rack Angles. Rack Angle Adapter Brackets come in a quantity of four and are 14 gauge steel. They have a plated finish.

BULLETIN: P20

Catalog Number	Gauge	Use With
PBRAA	14	Rack-Mount Slides A16SL2U



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CENTER UPRIGHT

APPLICATION

Center Uprights are vertical channels that attach to the frame (top and bottom). They are frequently used in wider frames to facilitate the installation of 19-in. rack accessories.

FEATURES

- The vertical hole pattern matches the vertical hole pattern in the frame
- Sold individually and include mounting hardware

SPECIFICATIONS

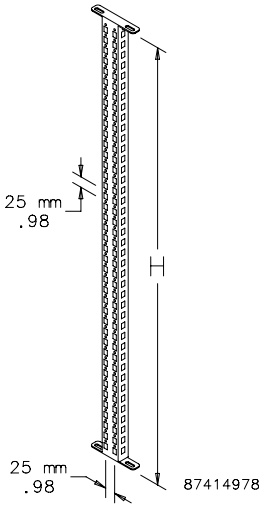
- Can be used in 800-, 1000-, 1200- and 1600-mm wide frames to facilitate the installation of accessories for 600-mm wide frames and 19-in. rack accessories
- 12-gauge (2.5 mm) mild steel

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

BULLETIN: P40

Catalog Number	H (mm)	H (in.)	Fits Frame Height (mm)
P2ACU6	544	21.4	600
P2ACU8	744	29.3	800
P2ACU10	944	37.2	1000
P2ACU12	1144	45.0	1200
P2ACU14	1344	52.9	1400
P2ACU16	1544	60.8	1600
P2ACU18	1744	68.7	1800
P2ACU20	1944	76.5	2000
P2ACU22	2144	84.4	2200



RACK PANELS

Rack Panels are available in aluminum and painted steel. Aluminum Rack Panels are .125-in.-thick 5052-H32 alloy. Steel Rack Panels are 12 gauge steel and finished in RAL 7035 textured light-gray polyester powder paint. All panels are flat with oblong holes positioned at EIA standard spacing. Mounting hardware is sold separately.

BULLETIN: P20

Catalog Number	Material	Rack Angle Size	Rack Units
P19RP1UA	Aluminum	19 in.	1
P19RP1UP	Steel	19 in.	1
P19RP2UA	Aluminum	19 in.	2
P19RP2UP	Steel	19 in.	2
P19RP3UA	Aluminum	19 in.	3
P19RP3UP	Steel	19 in.	3
P19RP4UA	Aluminum	19 in.	4
P19RP4UP	Steel	19 in.	4
P19RP5UA	Aluminum	19 in.	5
P19RP5UP	Steel	19 in.	5
P19RP6UP	Steel	19 in.	6
P19RP6UA	Aluminum	19 in.	6
P19RP7UA	Aluminum	19 in.	7
P19RP7UP	Steel	19 in.	7
P19RP8UA	Aluminum	19 in.	8
P19RP8UP	Steel	19 in.	8
P19RP9UA	Aluminum	19 in.	9
P19RP9UP	Steel	19 in.	9
P19RP10UA	Aluminum	19 in.	10
P19RP10UP	Steel	19 in.	10
P19RP11UA	Aluminum	19 in.	11
P19RP11UP	Steel	19 in.	11
P19RP12UA	Aluminum	19 in.	12
P19RP12UP	Steel	19 in.	12
P19RP16UA	Aluminum	19 in.	16
P19RP16UP	Steel	19 in.	16

CAGE NUT PACKAGE

Twenty plated cage nuts are included in each package. Available in #10-32, #12-24, M5 and M6, these cage nuts fit all PROLINE and PROLINE G2 rack angles with square holes.

BULLETIN: DACCY

Catalog Number	Description	Pkg. Qty.
P1032CN	10-32 thread	20
P1224CN	12-24 thread	20
PM5CN	Metric M5 thread	20
PM6CN	Metric M6 thread	20

SCREW PACKAGE

Twenty plated screws are included in each package. Screws attach rack panels to rack mounting angles. Available in #10-32, #12-24, M5 and M6.

BULLETIN: A80, DACCY

Catalog Number	Description	Pkg. Qty.
AS1032	10-32 x .75	20
ES1224	12-24 x .5	20
ASM5	Metric M5 x 20	20
ASM6	Metric M6 x 16	20
ASM6250	Metric M6 x 16	250

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HEAVY-DUTY SWING-OUT RACK FRAME

APPLICATION

The PROLINE G2 Heavy-Duty Swing-Out Rack Frame allows 19-in. rack equipment or rack panels to pivot for better accessibility. New center pivot option allows 350-degree rotation with a 400 lb. (181 kg) load rating. Left or right offset option allows the frame to pivot out of the enclosure and is capable of 140-degree rotation. Hinges that provide 170-degree rotation are an optional accessory.

FEATURES

- Three pivot options for maximum flexibility (center, left, right)
- Complies with ANSI/EI A RS-310-D rack-mounting standards
- Mounts to inside of frame at any vertical location; can be located at any depth using grid straps/rail system. Deeper mounting affects the degree of opening of swing-out frame

SPECIFICATIONS

- Rack Frames are available for 600- and 800-mm wide enclosure frames
- For 600-mm wide enclosures, the rack frame uses the full width
- For 800-mm wide enclosures, there is 200-mm extra width and the rack frame can be installed on either side or in the center.
- Can be installed in right, left or both bays of 1200-mm wide frames using center uprights. Frame reducing brackets may also be used to accommodate a variety of frame widths.
- Center pivot option allows 350-degree rotation; left or right offset option allows 140-degree rotation and swings frame partially out of outer frame; optional hinges allow 170-degree rotation and swing frame completely out of outer frame
- Has cutouts to mount Frame Tie-Down Brackets (not included) for cable management
- Full-height swing-out rack frames are mounted to the top and bottom of the enclosure frame; smaller swing-out rack frames can be mounted to the vertical frame members or to the grid straps (order separately)
- Furnished with quarter-turn latch, mounting hardware and mounting brackets
- Mounting holes accommodate either English or metric cage nuts, which are ordered separately

FINISH

- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

Maximum equipment load is 400 lbs (181 kg) if center pivot is used; 125 lbs (56 kg) if an offset pivot is used (1.5 safety factor in either case).

ACCESSORIES

Rack Panels, page 559
170-Degree Hinge Kit, page 562
Screw Package, page 559
Cage Nut Package, page 559

BULLETIN: P40

Standard Product

Catalog Number	Height mm/in.	Width mm/in.	Fits Frame HxW mm	Rack Units
P2RSFH146	1345 53.0	546 21.5	1400 x 600	25
P2RSFH148	1345 53.0	746 29.4	1400 x 800	25
P2RSFH166	1545 60.8	546 21.5	1600 x 600	30
P2RSFH168	1545 60.8	746 29.4	1600 x 800	30
P2RSFH186	1745 68.7	546 21.5	1800 x 600	34
P2RSFH188	1745 68.7	746 29.4	1800 x 800	34
P2RSFH206	1945 76.6	546 21.5	2000 x 600	39
P2RSFH208	1945 76.6	746 29.4	2000 x 800	39
P2RSFH226	2145 84.5	546 21.5	2200 x 600	43
P2RSFH228	2145 84.5	746 29.4	2200 x 800	43

Model	Component	Type	Height	Width		Catalog Number
P2	R	SFH	20	6	=	P2RSFH206
PROLINE G2	Rack Accessory	A19 = 19-in. rack angle SFH = swing-out frame, heavy-duty	mm 22 = 2200 20 = 2000 18 = 1800 16 = 1600 14 = 1400 8 = 800	mm 8 = 800 6 = 600		

NOTE: Not every combination is available as a standard product.

PARTIAL SWING-OUT RACK FRAME

APPLICATION

This 19-in. Rack Frame is used when a smaller, medium-duty swing-out frame is desired. Light-weight rack equipment fits nicely into this 800-mm tall swing-out frame, providing 90 degrees of rotation and increased accessibility.

FEATURES

- Side hinge brackets are used to mount the swing frame, allowing free access above and below the swing frame
- Used with any height enclosure and hinged on the right or left

SPECIFICATIONS

- Furnished with hinges, two quarter-turn latches and mounting hardware
- Complies with ANSI/EIA RS-310-D rack mounting standards
  1. Swing-Out Rack Frame assemblies are supplied with mounting supports. Swing-Out Rack Frames can also be installed in right, left or both bays of 1200-mm wide frames using center uprights.
  2. Swing-out mounting supports mount to inside of frame at any vertical location.
  3. Mounting supports and swing-out frame can be located deeper into frame using grid system straps. Deeper mounting affects the degree of opening of swing-out frame.

FINISH

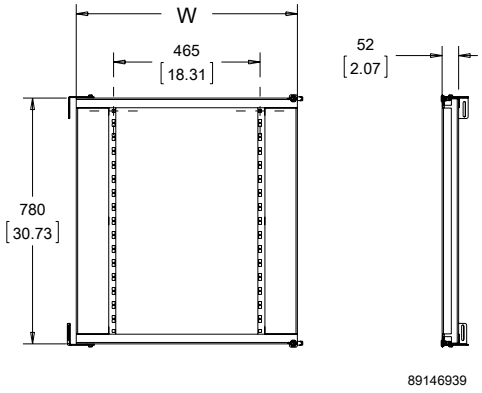
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

Maximum load rating is 100 lb (45 kg)

BULLETIN: P20

Catalog Number	W (mm)	W (in.)	Fits Frame Width (mm)	Rack Units
PSF6	507	20.0	600	16
PSF8	697	27.4	800	16

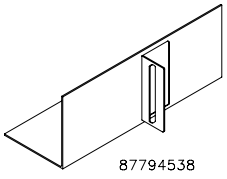


SWING-OUT GUIDES

Guides can be mounted to a Heavy-Duty Swing-Out Rack Frame to provide extra support for rack equipment. Plated steel guides are furnished in pairs with mounting hardware included.

BULLETIN: P20

Catalog Number	Description
PSFG	Swing-Out Guides



170-DEGREE HINGE KIT

Use this kit in conjunction with the Heavy-Duty Swing-Out Rack Frame to provide increased accessibility to the back of rack equipment.

BULLETIN: P40

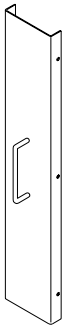
Catalog Number	Fits Frame
P2ARF170K	All

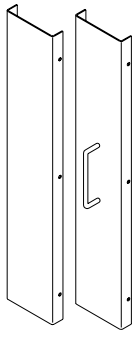
FILLER PANEL KIT

Catalog Number	Swing Frame Height mm	Enclosure Width mm	Mounting
PFPK77LR	700	700	Left or Right
PFPK78C	700	800	Center
PFPK147LR	1400	700	Left or Right
PFPK148C	1400	800	Center
PFPK167LR	1600	700	Left or Right
PFPK168LR	1600	800	Left or Right
PFPK168C	1600	800	Center
PFPK187LR	1800	700	Left or Right
PFPK188LR	1800	800	Left or Right
PFPK188C	1800	800	Center
PFPK208LR	2000	800	Left or Right
PFPK208C	2000	800	Center
PFPK227LR	2200	700	Left or Right
PFPK228LR	2200	800	Left or Right
PFPK228C	2200	800	Center

Used when mounting the PROLINE G2 Heavy-Duty Swing-Out Rack Frames in 800-mm wide frames. The Filler Panel occupies the extra space between the frame and the swing frame. Includes a handle and all the hardware for mounting to the Swing-Out Rack Frame.

BULLETIN: P20





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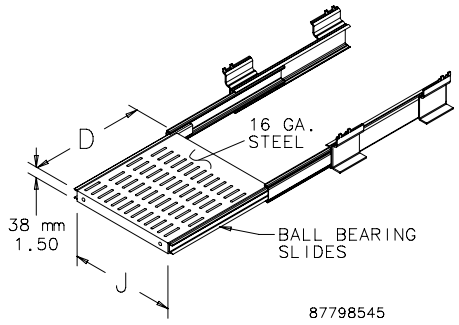
RACK MOUNT PULL-OUT SHELF

The Rack Mount Pull-Out Shelf allows easy access to shelf-mounted devices. Shelf is 16-gauge steel with 12-gauge steel supports. The entire assembly is finished with RAL 7035 textured light-gray polyester powder paint. The shelf mounts to the front surface of front and back rack angles.
When mounted directly to a frame, load rating is 150 lb. (68 kg) with four rack angle mountings and 75 lb. (34 kg) with front rack angle mounting.
Rack accessories that are shorter than the enclosure depth can be mounted to rack angles or frame accessory brackets attached to grid straps. Order these items separately.

BULLETIN: P20



Catalog Number	D mm/in.	J mm/in.	Shelf Extension mm/in.	Fits Rack Width
P19SHP68	661 26.02	403 15.87	670 26.50	19 in.
P19SHP810	761 29.96	403 15.87	770 30.00	19 in.

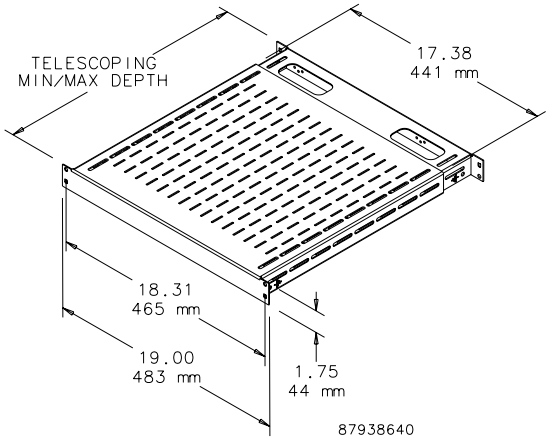
TOOL-LESS SHELF

An easy-to-install tool-less vented 19-in. shelf. Mounts onto rack angles that have EIA-spaced square holes (.375 in.). Shelf slides open and provides a variable-sized, continuous surface for equipment. Back of shelf has oval cutouts for power and data cables. Accessory hole patterns at back of shelf fit small and large D-rings to help manage cable. Made of steel with a 150 lb. (68 kg) static load rating. Available with RAL 9005 black or RAL 7035 gray polyester powder coat finish.
Note: For square-hole rack angles only!

BULLETIN: DACCY

Catalog Number	Description	Finish	Minimum Depth mm/in.	Maximum Depth mm/in.	Rack Angle Type
D19FVT69G	Shelf, vented, 19 in. tool-less	Gray	495 19.50	851 33.50	Square hole only
D19FVT912G	Shelf, vented, 19 in. tool-less	Gray	792 31.20	1151 45.30	Square hole only

Minimum and maximum depth measured from rack angle to rack angle.



RACK-MOUNT FIXED SHELF

APPLICATION

The PROLINE G2 Rack Mount Frame Shelf mounts to the front and rear rack angles to provide a stationary surface for equipment.

SPECIFICATIONS

- Mounts to front and rear rack angles
- Ventilation slots in shelf surface
- 14-guage (1.75mm) steel shelf with 12-gauge (2.5mm) supports
- Adjustable to fit multi-depth enclosures or rack angle placements
- Mounting hardware included

FINISH

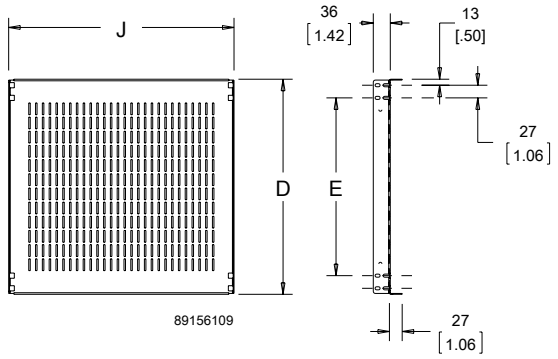
- Polyester powder paint; RAL 7035 textured light gray standard
- Custom colors available

LOAD RATING

150 lb. (68 kg)

BULLETIN: P40

Catalog Number	D (mm)	D (in.)	E (mm)	E (in.)	J (mm)	J (in.)	Fits Rack Width
P2RSH4	255	10.05	175	6.89	477	18.78	19 in.
P2RSH5	355	13.99	303	11.93	477	18.78	19 in.
P2RSH6	455	17.92	376	14.81	477	18.78	19 in.
P2RSH8	655	25.80	576	22.69	477	18.78	19 in.
P2RSH10	855	33.67	776	30.56	477	18.78	19 in.

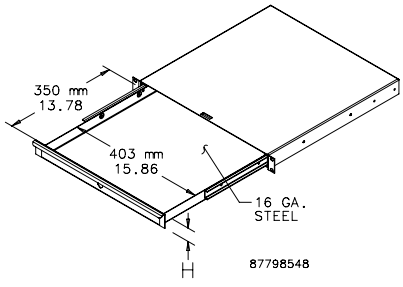


RACK-ANGLE MOUNTED DRAWER

Steel drawer for 19-in. rack-angle mounting. Mounts to the front surface of the rack angles. Integral steel box contains the drawer and protects surrounding internal equipment. Extends 13 in. (330 mm) on ball bearing slides. Front includes handle and key lock. Finish is RAL 7035 textured light-gray polyester powder paint. Mounting hardware is included.

BULLETIN: P20

Catalog Number	H (mm)	H (in.)	Fits Rack Width	Rack Units
P19DR1US	43	1.69	19 in.	1
P19DR2US	88	3.47	19 in.	2
P19DR3US	132	5.20	19 in.	3

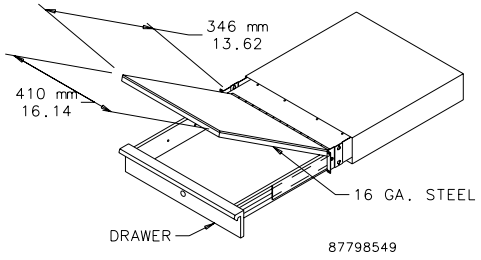


WRITING SURFACE

A 16-gauge steel cover mounts on top of the drawer to serve as a writing surface and drawer cover. Finish is RAL 7035 textured light-gray polyester powder paint.

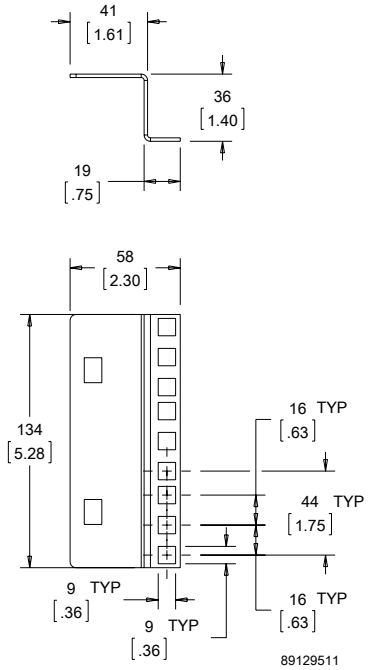
BULLETIN: P20

Catalog Number	Fits
P19WS	Drawer



FRAME ACCESSORY BRACKETS

Catalog Number	Description
P2AFB19	19-in. Frame Accessory Bracket



APPLICATION

Frame Accessory Brackets mount directly to the PROLINE G2 frame and are used in place of rack angles to mount rack accessories such as shelves and pull-out shelves.

SPECIFICATIONS

- Furnished in sets of four
- 14-gauge (1.75 mm) steel
- Mounting hardware included

FINISH

Plated

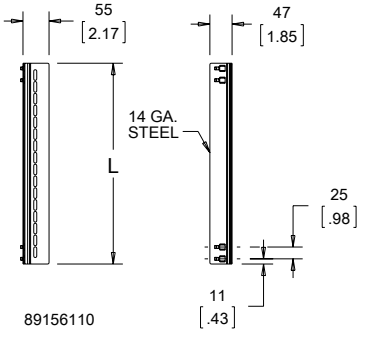
BULLETIN: P40

GUIDES

Catalog Number	L mm/in.	Frame Depth mm/in.
P2RG4	225 8.86	400 15.75
P2RG5	325 12.80	500 19.68
P2RG6	425 16.73	600 23.62
P2RG8	625 24.51	800 31.49
P2RG10	825 32.48	1000 39.37

Equipment Guides help support rack-mounted equipment during installation. Guides mount between two pairs of rack angles. Slotted holes are provided for vertical or lateral adjustment. Furnished in pairs. Guides have plated finish. Mounting hardware included.
Rack accessories that are shorter than the enclosure depth can be mounted to rack angles using Adjustable Rack-Mount Rails or Grid Straps. Order these items separately.

BULLETIN: P40



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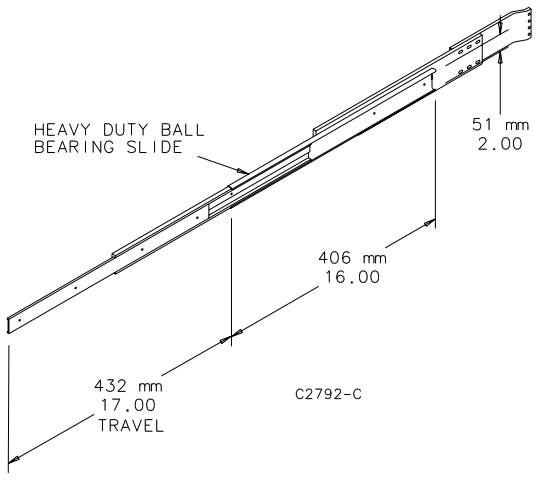
SLIDES

Heavy-duty ball bearing, plated, three-section Slides are 16-in. (406-mm) long and allow 17-in. (423-mm) extension. They are attached to supports that mount between two pairs of rack-mounting angles that have accessory mounting legs. Mounting hardware is furnished. Equipment 16.75-in. (425-mm) wide can be mounted between Slide assemblies installed on 19-in. rack angles. A pair of Slides can support up to 160 lb. (73 kg) at the extended position when load is distributed evenly along the 16-in. (406-mm) Slide length. Requires Rack Angle Adapter Bracket to fit PROLINE. *Needs to be used with the Rack Angle Adapter Bracket (PBRAA, PBRAA19 or PBRAA24).*

BULLETIN: P20



Catalog Number	Quantity
A16SL2U	2

FRAME SHELF

APPLICATION
The PROLINE G2 Frame Shelf mounts to the vertical hole pattern on a frame and provides a stationary surface for equipment.

SPECIFICATIONS
- 16-gauge (1.5 mm) steel

FINISH
- Painted polyester powder paint; RAL 7035 Light Gray
- Custom colors available

LOAD RATING
- 400 lb. (181 kg)

BULLETIN: P40

Catalog Number	Width (mm)	Width (in.)	Depth (mm)	Depth (in.)	Fits Frame Width x Depth mm
P2ASHF45	348	13.7	407	16.0	400x500
P2ASHF46	348	13.7	507	20.0	400x600
P2ASHF64	548	21.6	307	16.0	600x400
P2ASHF65	548	21.6	407	16.0	600x500
P2ASHF66	548	21.6	507	20.0	600x600
P2ASHF68	548	21.6	707	27.8	600x800
P2ASHF84	748	29.4	307	16.0	800x400
P2ASHF85	748	29.4	407	16.0	800x500
P2ASHF86	748	29.4	507	20.0	800x600
P2ASHF88	748	29.4	707	27.8	800x800
P2ASHF810	748	29.4	907	25.7	800x1000
P2ASHF104	948	37.3	307	16.0	1000x400
P2ASHF105	948	37.3	407	16.0	1000x500
P2ASHF106	948	37.3	507	20.0	1000x600
P2ASHF108	948	37.3	707	27.8	1000x800

WxD dimensions are in mm.

FRAME PULL-OUT SHELF

APPLICATION
PROLINE G2 Frame Pull-Out Shelf allows easy access to shelf-mounted devices.

SPECIFICATIONS
- Mounts to the front and rear frame uprights
- The shelf is 16-gauge (1.5-mm) steel with 12-gauge (2.5-mm) steel supports

FINISH
- Painted polyester powder paint; RAL 7035 Light Gray
- Custom colors available

LOAD RATING
110 lb. (50 kg)

BULLETIN: P40

Catalog Number	Fits Frame Width mm	Width mm/in.	Depth mm/in.	Pull-Out mm/in.
P2ASHFP6	600	557 21.9	505 19.9	450 17.7
P2ASHFP8	800	757 29.8	505 19.9	450 17.7
P2ASHFP6EXT	600	557 21.9	705 27.8	670 26.4
P2ASHFP8EXT	800	757 29.8	705 27.8	670 26.4

FRAME PRINTER SHELF

APPLICATION
The PROLINE G2 Frame Printer Shelf mounts directly to a modular frame and can be used for supporting a continuous feed printer or other applications where multiple pull-out shelves are desired.

SPECIFICATIONS
- Lower shelves are vertically adjustable
- The entire unit slides out 17 in. (431 mm) from the enclosure, allowing easy accessibility
- Fits 600- or 800-mm wide frames that are 600 mm deep or greater

FINISH
- Painted polyester powder paint; RAL 7035 Light Gray
- Custom colors available

BULLETIN: P40

Catalog Number	Width mm/in.	Depth mm/in.	Fits Frame Width mm
P2ASHP6	547 21.6	506 19.9	600
P2ASHP8	747 29.4	506 19.9	800

Frame Width dimensions are in mm.

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GOLD SERIES DESK CONSOLE, TYPE 12

APPLICATION

The PROLINE Gold Series Desk Console provides an ideal surface for mounting HMI controls such as keyboards, switches, lights or dials, and it is ergonomically designed so operators can sit or stand while working. The console can be configured in an arc by using the wedge accessory.

SPECIFICATIONS

- 14 gauge steel body
- 14 and 16 gauge steel doors
- 25-degree sloped top
- Seams continuously welded and ground smooth
- Top door prop allows for single-handed operation
- Built-in top door handle
- Quarter-turn latches hold top door securely closed
- PROLINE latching system and keylocking swing handles on front doors and on rear doors of dual-access enclosures
- Internal rails on dual-access enclosures facilitate mounting of PROLINE internal components
- Full access provides maximum mounting space and easy access to interior components

FINISH

Finish is RAL 7035 textured light-gray polyester powder paint.

ACCESSORIES

Wedge Consoles, page 572
Joining Kit, page 572
Full Back Panel, page 572
Side-Mount Panel, page 573
Caster Kit, page 573

BULLETIN: P11

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
IEC 60529, IP55, IP66

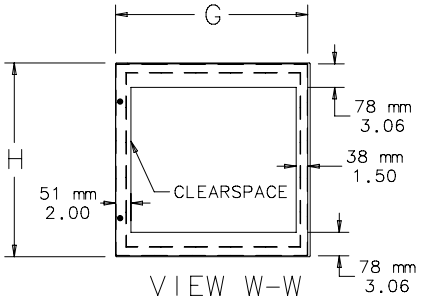
Standard Product **Gold Series Desk Console**

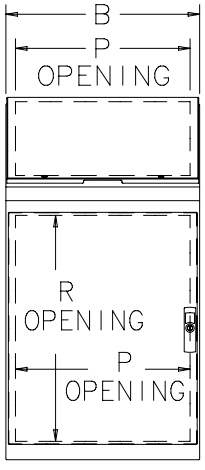
Catalog Number	AxBxC mm/in.	D mm/in.	E mm/in.	F mm/in.	G mm/in.	H mm/in.	N mm/in.	P mm/in.	R mm/in.
PGLD1074DC	1013 x 641 x 393	777	541	393	635	560	485	569	612
	39.87 x 25.23 x 15.47	30.60	21.29	15.47	25.00	22.03	19.10	22.40	24.11
PGLD10104DC	1013 x 946 x 393	777	541	393	940	560	485	874	612
	39.87 x 37.24 x 15.47	30.60	21.29	15.47	37.00	22.03	19.10	34.41	24.11
PGLD1275DC	1175 x 641 x 469	905	616	469	635	634	569	569	739
	46.27 x 25.23 x 18.47	35.62	24.26	18.46	25.00	25.33	22.41	22.40	29.09
PGLD12105DC	1175 x 946 x 469	905	616	469	940	634	569	874	739
	46.27 x 37.24 x 18.47	35.62	24.26	18.46	37.00	25.33	22.41	34.41	29.09

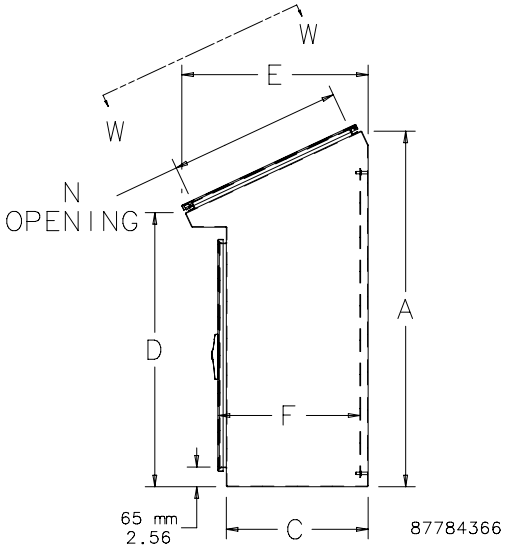
Standard Product **Single-Bay Dual-Access Consoles**

Catalog Number	AxBxC mm/in.	D mm/in.	E mm/in.	G mm/in.	H mm/in.	N mm/in.	P mm/in.	R mm/in.	S mm/in.
PGLD1265DC	1176 x 608 x 469	905	607	602	636	569	536	739	998
	46.28 x 23.94 x 18.47	35.62	24.28	23.70	25.02	22.41	21.11	29.09	39.27
PGLD1285DC	1176 x 808 x 469	905	607	802	636	569	736	739	998
	46.28 x 31.81 x 18.47	35.62	24.28	31.57	25.02	22.41	28.98	29.09	39.27

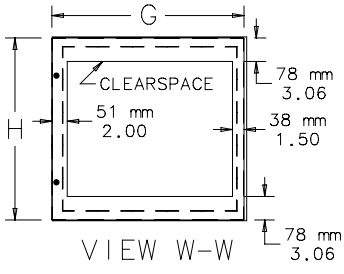
Gold Series Desk Console

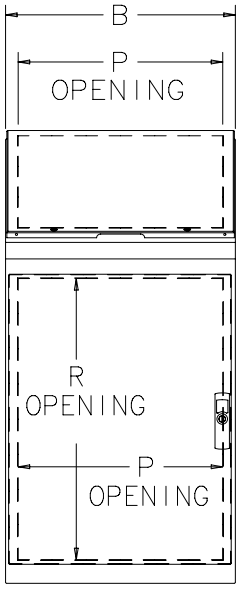


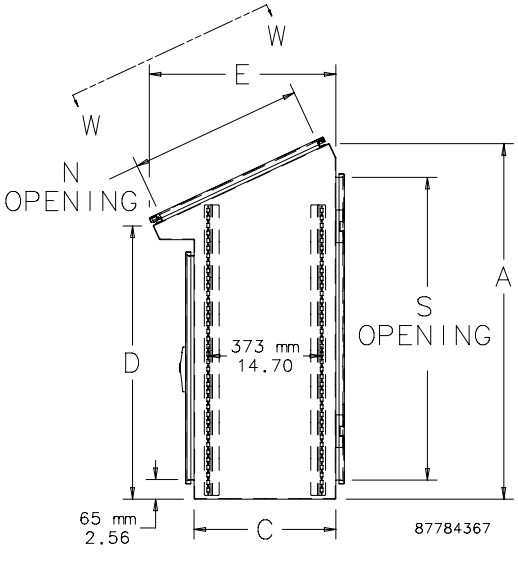




Single-Bay Dual-Access Consoles







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GOLD SERIES DOUBLE-BAY DESK CONSOLE, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No 94; File No. E61997

NEMA/EEMAC Type 12
IEC 60529, IP 55

APPLICATION

The PROLINE Gold Series Double-Bay Desk Console provides a large space for mounting internal components and controls and can be configured in an arc by using the wedge accessory.

SPECIFICATIONS

- 14 gauge steel body
- 14 and 16 gauge steel doors
- 25-degree sloped top
- Seams continuously welded and ground smooth
- Top door prop allows for single-handed operation
- Built-in top door handle
- Quarter-turn latches hold top door securely closed
- PROLINE latching system and keylocking swing handles on front doors and on rear doors of dual-access enclosures
- Internal rails on dual-access enclosures facilitate mounting of PROLINE internal components
- Full access provides maximum mounting space and easy access to interior components

FINISH

Finish is RAL 7035 textured light-gray polyester powder paint.

ACCESSORIES

Wedge Consoles, page 572
Joining Kit, page 572
Full Back Panel, page 572
Side-Mount Panel, page 573
Caster Kit, page 573

BULLETIN: P11

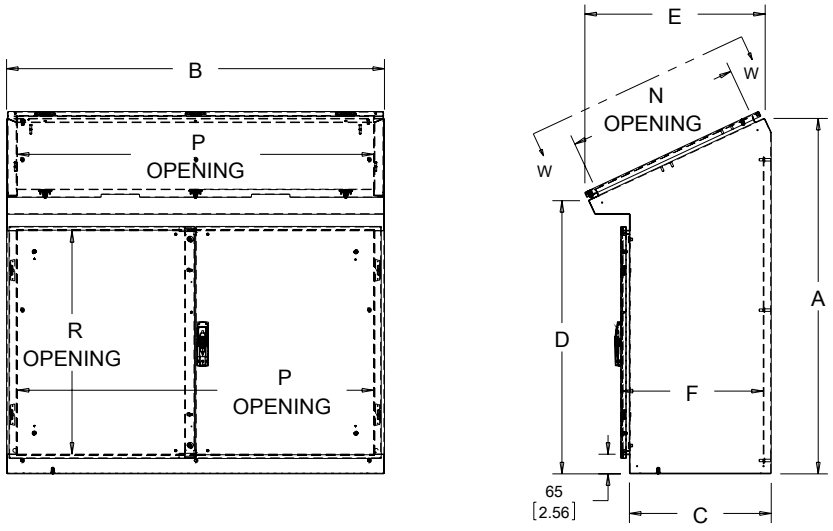
Standard Product **Double-Bay Desk Console**

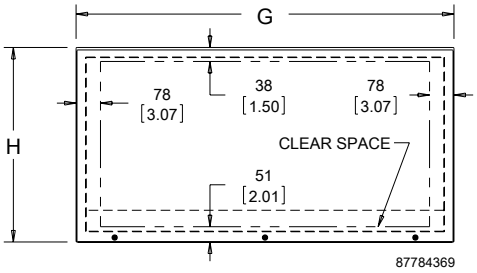
Catalog Number	AxBxC mm/in.	D mm/in.	E mm/in.	F mm/in.	G mm/in.	H mm/in.	N mm/in.	P mm/in.	R mm/in.
PGLD12135DC	1175 x 1250 x 469	904	616	469	1244	636	569	1178	739
	46.27 x 49.20 x 18.47	35.61	24.26	18.47	48.97	25.02	22.41	46.38	29.09
PGLD12165DC	1175 x 1555 x 469	904	616	469	1549	636	569	1483	739
	46.27 x 61.21 x 18.47	35.61	24.26	18.47	60.98	25.02	22.41	58.38	29.09

Standard Product **Double-Bay Dual-Access Desk Consoles**

Catalog Number	AxBxC mm/in.	D mm/in.	E mm/in.	G mm/in.	H mm/in.	N mm/in.	P mm/in.	R mm/in.	S mm/in.	T mm/in.
PGLD12125DC	1176 x 1208 x 469	905	616	1202	636	569	536	739	997	1136
	46.29 x 47.56 x 18.47	35.62	24.25	47.32	25.02	22.41	21.11	29.09	39.27	44.73

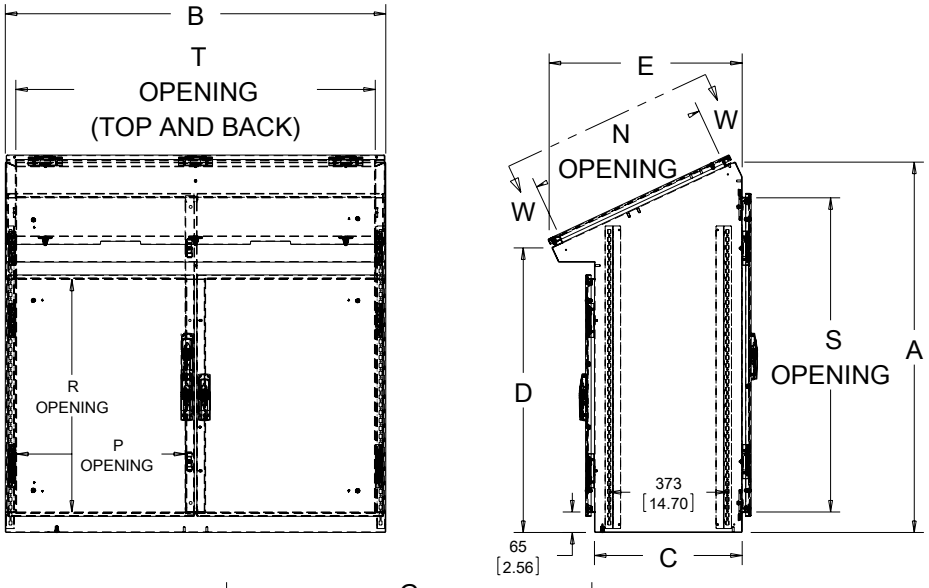
Double-Bay
Desk Console

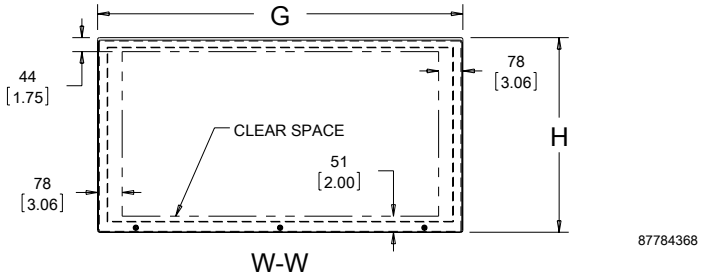




W-W

Double-Bay
Dual-Access
Desk Consoles





W-W

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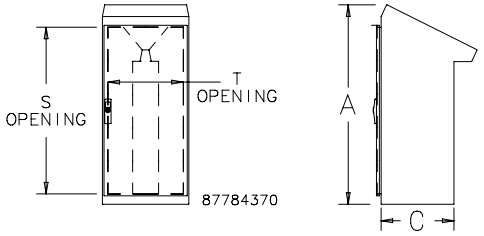
WEDGE CONSOLES

Optional Wedge Consoles can be positioned between desk consoles. The wedge console top has a 25-degree slope. Optional levelers or casters can be attached by drilling holes at pre-marked locations in the console bottom. Hinged rear access door is standard.

BULLETIN: P11

Catalog Number	A mm/in.	C mm/in.	S mm/in.	T mm/in.
PGLD45DC	1198 47.17	443 17.06	997 39.27	446 17.54



JOINING KIT

Optional Joining Kit provides a means for joining desk consoles or wedges together side to side. Kit includes six bolts, sealing washers and nuts. Two Joining Kits are required for a wedge console. Order separately.

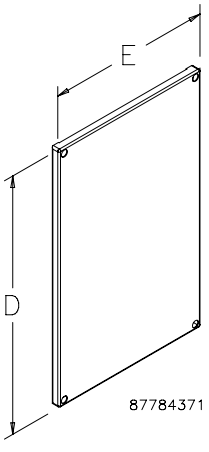
BULLETIN: P20

Catalog Number	Description
PJKDC	PROLINE Desk Console Joining Kit

FULL BACK PANEL

Optional Full Back Panel is 12 gauge galvanized steel. Mounting hardware is included with the enclosure. Order separately.

BULLETIN: P20



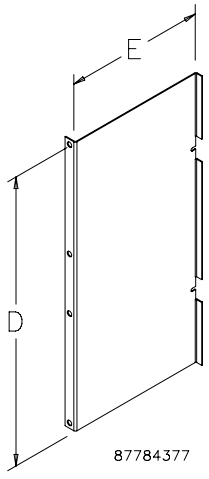
Catalog Number	D mm/in.	E mm/in.	Enclosure
PP96G	869 34.20	564 22.20	PGLD1074DC
PP99G	869 34.20	869 34.20	PGLD10104DC
PP116G	1021 40.20	564 22.20	PGLD1275DC
PP119G	1021 40.20	869 34.20	PGLD12105DC
PP1112G	1021 40.20	1173 46.20	PGLD12135DC
PP1115G	1021 40.20	1478 58.20	PGLD12165DC
PPP96G	835 32.87	530 20.87	PGLD1265DC
PPP98G	835 32.87	730 28.74	PGLD1285DC
PPP812G	835 32.87	1130 44.49	PGLD12125DC

SIDE-MOUNT PANEL

Optional Side-Mount Panel is 12 gauge galvanized steel. Mounting hardware is included with the panel. Order separately.

BULLETIN: P20

Catalog Number	D (mm)	D (in.)	E (mm)	E (in.)
PPSM64G	627	24.70	343	13.63
PPSM84G	807	31.77	422	16.62



CASTER KIT

A set of four casters (two locking, two non-locking) that mount directly to the bottom of a PROLINE frame, 0-mm or 100-mm Solid Base or a Console. **(Do not use on plinth bases.)** Casters elevate the enclosure 110 mm (4.33) when installed. Caster frames are plated steel with ball-bearing pivots. Caster wheels are made of a black polyamide material. Kit includes M12 mounting hardware. Order separately.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring.

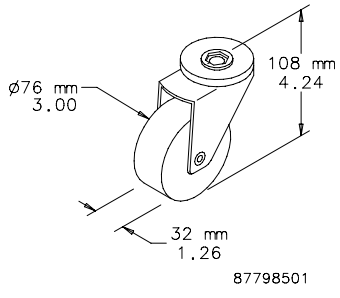
NOTE: Avoid large cracks, floor displacement, seams, gravel and any other obstructions.

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

BULLETIN: P20

Catalog Number	Description
PC1M12	Set of 4 Casters



GOLD SERIES COMPUTER WORKSTATION, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
IEC 60529, IP55

APPLICATION

The PROLINE Gold Series Computer Workstation is a full-featured, off-the-shelf solution for protecting PC computer systems. Made with sturdy unibody construction, the enclosure accommodates a complete range of accessories.

SPECIFICATIONS

- 14 gauge steel body
- 14 and 16 gauge steel doors and covers
- Seams continuously welded and ground smooth
- Seamless foam-in-place gasket on all doors and covers
- Smoke gray 0.25-in.-thick polycarbonate window on upper front door
- Quarter-turn latches on upper front door for 1400-mm tall cabinets
- PROLINE latching system and keylocking swing door handles on upper front door for 1600- and 1800-mm tall cabinets
- Solid lower front and full rear doors with keylocking swing door handles
- Internal rails facilitate mounting of PROLINE internal components
- Options include solid upper front door and solid front and rear covers with screw fasteners
- Full rear opening provides maximum mounting space and easy access to interior components
- Optional partial subpanel
- Hinges on bottom for 1400-mm tall enclosures

FINISH

Cabinet finish is RAL 7035 textured light-gray polyester powder paint. Keyboard door finish is RAL 9005 textured black polyester powder paint.

ACCESSORIES

Caster Kit, page 573
Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Compact Axial Fans, page 1202
Flush Swing Handles, page 496
Key Inserts, page 497
Perforated Panels, page 1328
Touch-Up Paint, page 1379

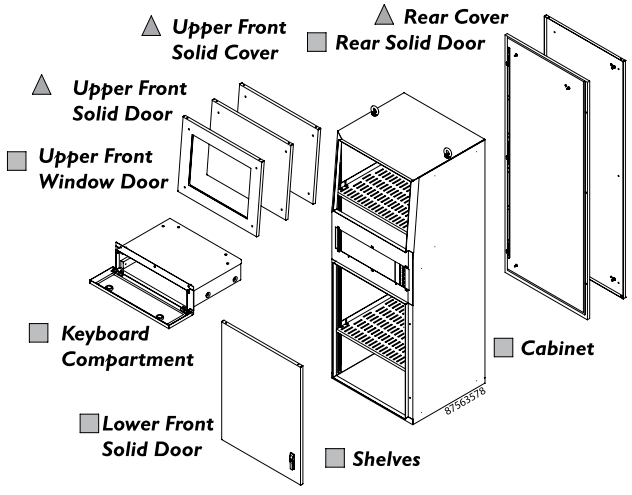
BULLETIN: P10

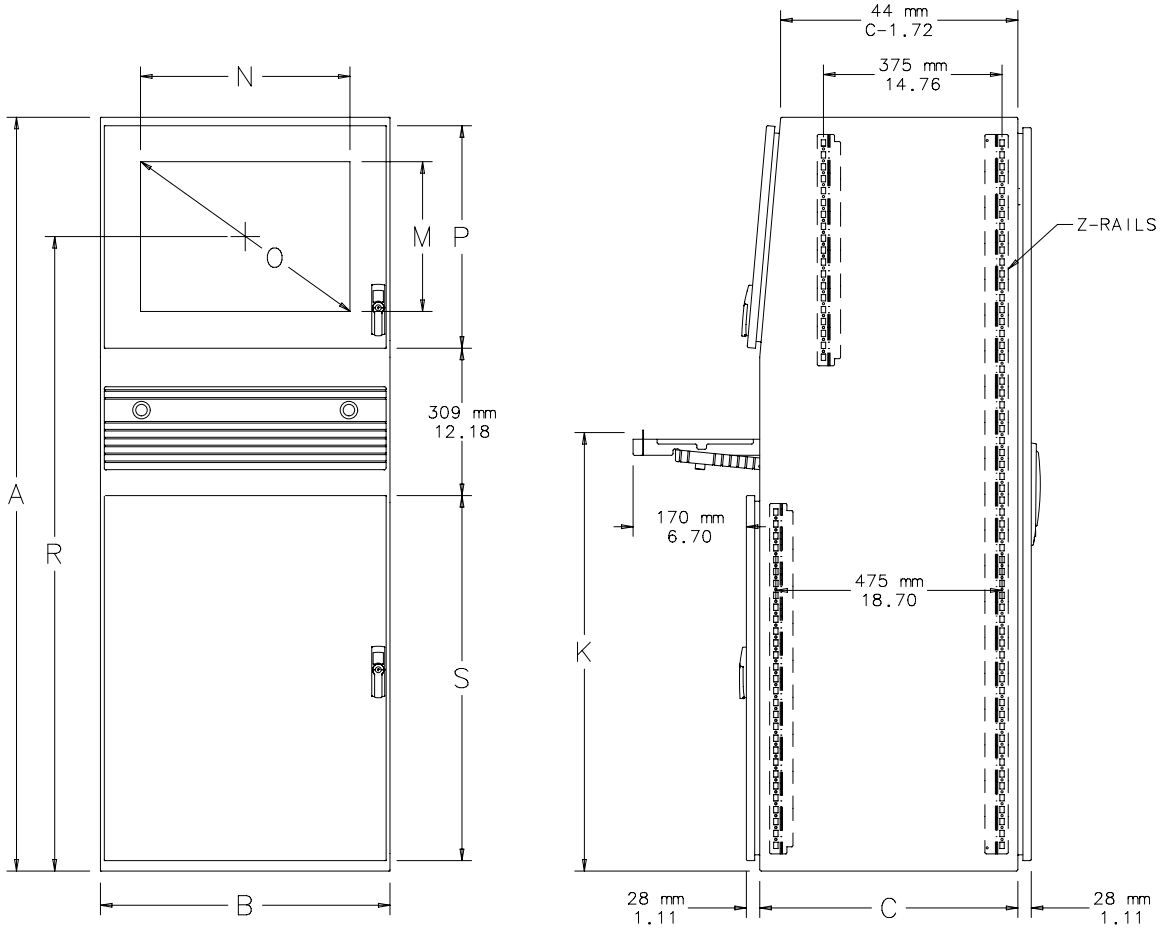
Standard Product **Computer Workstation, Type 12**

Catalog Number	AxBxC mm/in.	Nominal Size Height	Nominal Size Width	Nominal Size Depth	K mm/in.	M mm/in.	N mm/in.	O mm/in.	P mm/in.	R mm/in.	S mm/in.	Top Door Opening Height mm/in.	Top Door Opening Width mm/in.	Bottom Door Opening Height mm/in.	Bottom Door Opening Width mm/in.	Rear Door Opening Height mm/in.	Rear Door Opening Width mm/in.
PGLD1466CWS	1400 x 600 x 600 55.12 x 23.62 x 23.62	1400	600	600	886 34.88	319 12.56	440 17.32	544 21.42	471 18.54	1288 50.71	759 29.88	406 16.00	536 21.10	709 27.91	536 21.10	1454 57.25	536 21.10
PGLD1468CWS	1400 x 600 x 800 55.12 x 23.62 x 31.50	1400	600	800	886 34.88	319 12.56	440 17.32	544 21.42	471 18.54	1288 50.71	759 29.88	406 16.00	536 21.10	709 27.91	536 21.10	1454 57.25	536 21.10
PGLD1486CWS	1400 x 800 x 600 55.12 x 31.50 x 23.62	1400	800	600	886 34.88	319 12.56	640 25.20	715 28.15	471 18.54	1288 50.71	759 29.88	406 16.00	736 28.98	709 27.91	736 28.98	1454 57.25	736 28.98
PGLD1666CWS	1600 x 600 x 600 62.99 x 23.62 x 23.62	1600	600	600	916 36.06	316 12.44	440 17.32	542 21.34	468 18.43	1331 52.40	766 30.16	436 17.17	536 21.10	739 29.09	536 21.10	1511 59.49	536 21.10
PGLD1668CWS	1600 x 600 x 800 62.99 x 23.62 x 31.50	1600	600	800	916 36.06	316 12.44	440 17.32	542 21.34	468 18.43	1331 52.40	766 30.16	436 17.17	536 21.10	739 29.09	536 21.10	1511 59.49	536 21.10
PGLD1686CWS	1583 x 808 x 542 62.32 x 31.81 x 21.34	1600	800	600	916 36.06	316 12.44	640 25.20	714 28.11	468 18.43	1331 52.40	766 30.16	436 17.17	736 28.98	739 29.09	736 28.98	1511 59.49	736 28.98
PGLD1866CWS	1785 x 608 x 552 70.19 x 23.94 x 21.74	1800	600	600	916 36.06	517 20.35	440 17.32	679 26.73	669 26.34	1431 56.34	766 30.16	637 25.08	536 21.10	739 29.09	536 21.10	1711 67.36	536 21.10
PGLD1868CWS	1800 x 600 x 800 70.87 x 23.62 x 31.50	1800	600	800	916 36.06	517 20.35	440 17.32	679 26.73	669 26.34	1431 56.34	766 30.16	637 25.08	536 21.10	739 29.09	536 21.10	1711 67.36	536 21.10
PGLD1886CWS	1800 x 800 x 600 70.87 x 31.50 x 23.62	1800	800	600	916 36.06	517 20.35	640 25.20	823 32.40	669 26.34	1431 56.34	766 30.16	637 25.08	736 28.98	739 29.09	736 28.98	1711 67.36	736 29.98

Standard Configuration
Cabinet
Keyboard compartment
Shelf (2)
Upper front window door
Lower front solid door
Rear solid door
Lifting eyes

Optional Components
Upper front solid door
Upper front solid cover
Rear Cover





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Standard Product **1200-mm Enclosure**

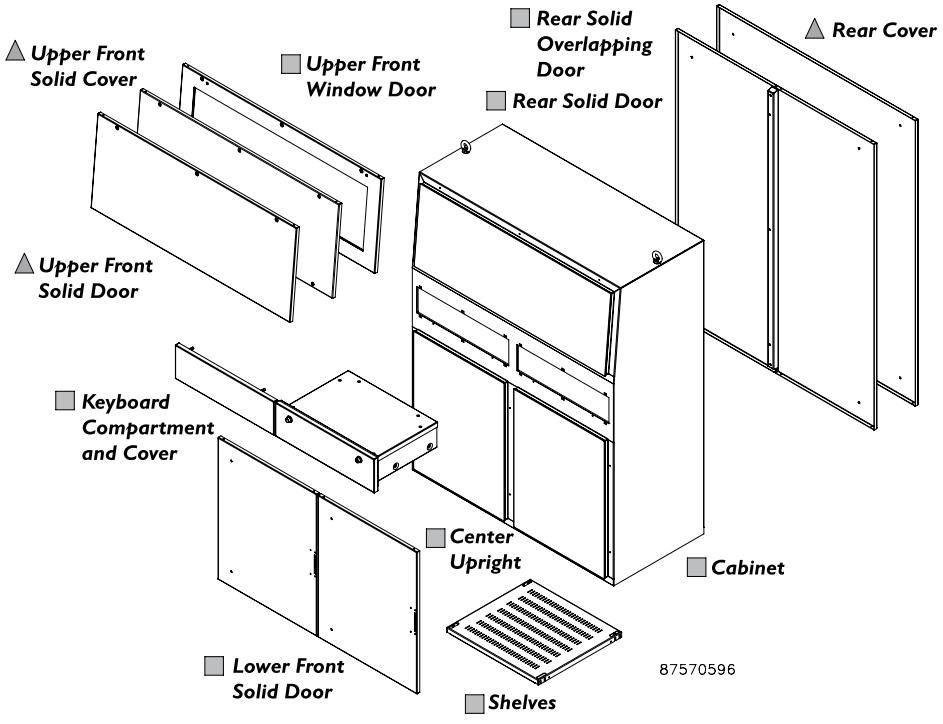
Catalog Number	AxBxC mm/in.	Nominal Size Height	Nominal Size Width	Nominal Size Depth	K mm/in.	M mm/in.	N mm/in.	O mm/in.	P mm/in.	R mm/in.	S mm/in.	Top Door Opening Height mm/in.	Top Door Opening Width mm/in.	Bottom Door Opening Height mm/in.	Bottom Door Opening Width mm/in.	Rear Door Opening Height mm/in.	Rear Door Opening Width mm/in.
PGLD14126CWS	1400 x 1200 x 600 55.12 x 47.24 x 23.62	1400	1200	600	886 34.88	319 12.56	1040 40.94	1088 42.83	471 18.54	1288 50.71	759 29.88	406 16.00	1136 44.72	709 27.91	536 21.10	1454 57.25	1136 44.72

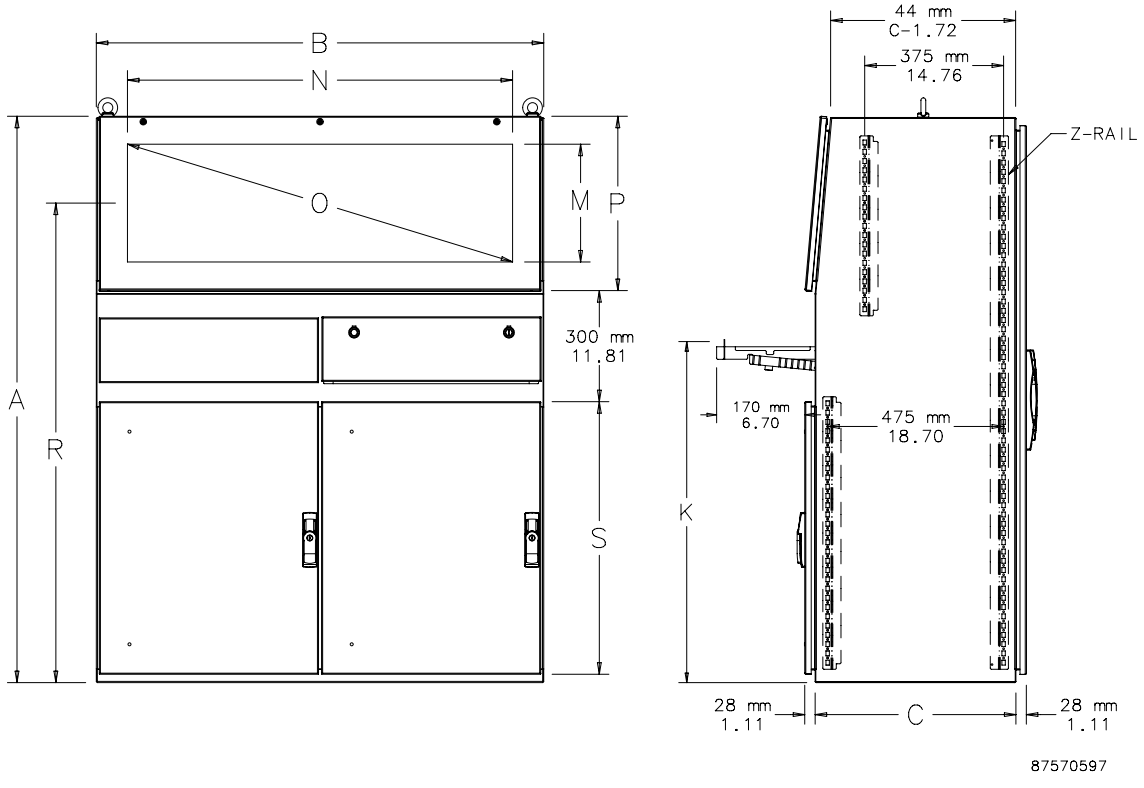
Standard Configuration

- Cabinet
- Keyboard compartment
- Keyboard compartment is on the right side and cover is on the left side
- Shelf (4)
- Upper front window door
- Lower front solid door
- Rear solid overlapping door
- Center upright
- Lifting eyes

Optional Components

- △ Upper front solid door
- △ Upper front solid cover
- △ Rear Cover





PROLINE-PC, TYPE 12

APPLICATION

PROLINE-PC Modular Enclosures are ideal for applications that require housing standard PCs and keyboards. A modular system, these enclosures provide multiple configuration possibilities—simply add components to the frame to create a single enclosure, or gang multiple enclosures for larger or more complex applications.

FEATURES

- The frame is enclosed with solid sides, a solid top and a 100-mm solid base.
- Three doors, two in front and one in back, provide convenient access
- The sealed keyboard compartment maintains enclosure integrity when the compartment door is opened
- The 19-in. diagonal top window door, hinged on the left, offers viewing access for a variety of monitor sizes and has a small flush swing handle with keylock for system security
- The vented frame shelf in the top compartment is constructed of 14 gauge steel and is painted with RAL 7035 textured light-gray polyester powder paint
- The PROLINE keyboard compartment includes a locking feature, an angled palm rest, a cable access port for wiring and integral mouse pad holders for both left-handed and right-handed people
- The accessory front opening accommodates a number of optional components, such as keyboard shelves and control compartments. See the attached drawing for dimensions and the Accessory Front Options section for available accessories.
- The bottom compartment includes a solid door hinged on the left that has a small flush swing handle with key lock. This compartment can be used to install computer equipment, panel-mounted equipment or rack mounted control systems.

BULLETIN: P20PC

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC Type 12
CSA File Number 42186: Type 12
VDE IP55
IEC 60529, IP55

Standard Product

Catalog Number	AxBxC mm/in.	M mm/in.	N mm/in.	P mm/in.	R mm/in.	Top Door Opening, Height mm/in.	Top Door Opening, Width mm/in.	Bottom Door Opening, Height mm/in.	Bottom Door Opening, Width mm/in.
PPC1666	1600 x 600 x 600	343	366	586	1363	558	536	739	536
	62.99 x 23.62 x 23.62	13.50	14.41	23.07	53.66	21.97	21.10	29.09	21.10
PPC1668	1600 x 600 x 800	343	366	586	1363	558	536	739	536
	62.99 x 23.62 x 31.50	13.50	14.41	23.07	53.66	21.97	21.10	29.09	21.10
PPC1686	1600 x 800 x 600	343	566	586	1363	558	736	739	736
	62.99 x 31.50 x 23.62	13.50	22.28	23.07	53.66	21.97	28.98	29.09	28.98
PPC1866	1800 x 600 x 600	343	366	786	1463	758	536	739	536
	70.87 x 23.62 x 23.62	13.50	14.41	30.94	57.60	29.84	21.10	29.09	21.10
PPC1868	1800 x 600 x 800	343	366	786	1563	958	536	739	536
	70.87 x 23.62 x 31.50	13.50	14.41	30.94	61.54	37.72	21.10	29.09	21.10
PPC1886	1800 x 800 x 600	343	566	786	1563	958	536	739	536
	70.87 x 31.50 x 23.62	13.50	22.28	30.94	61.54	37.72	21.10	29.09	21.10
PPC2066	2000 x 600 x 600	343	366	986	1563	958	736	739	736
	78.74 x 23.62 x 23.62	13.50	14.41	38.82	61.54	37.72	28.98	29.09	28.98
PPC2068	2000 x 600 x 800	343	366	986	1563	958	736	739	736
	78.74 x 23.62 x 31.50	13.50	14.41	38.82	61.54	37.72	28.98	29.09	28.98
PPC2086	2000 x 800 x 600	343	566	986	1563	958	736.1	738.9	736.1
	78.74 x 31.50 x 23.62	13.50	22.28	38.82	61.54	37.72	28.98	29.09	28.98
PPC2088	2000 x 800 x 800	343	566	986	1563	958	736.1	738.9	736.1
	78.74 x 31.50 x 31.50	13.50	22.28	38.82	61.54	37.72	28.98	29.09	28.98

100-mm solid base is included in the A dimension.

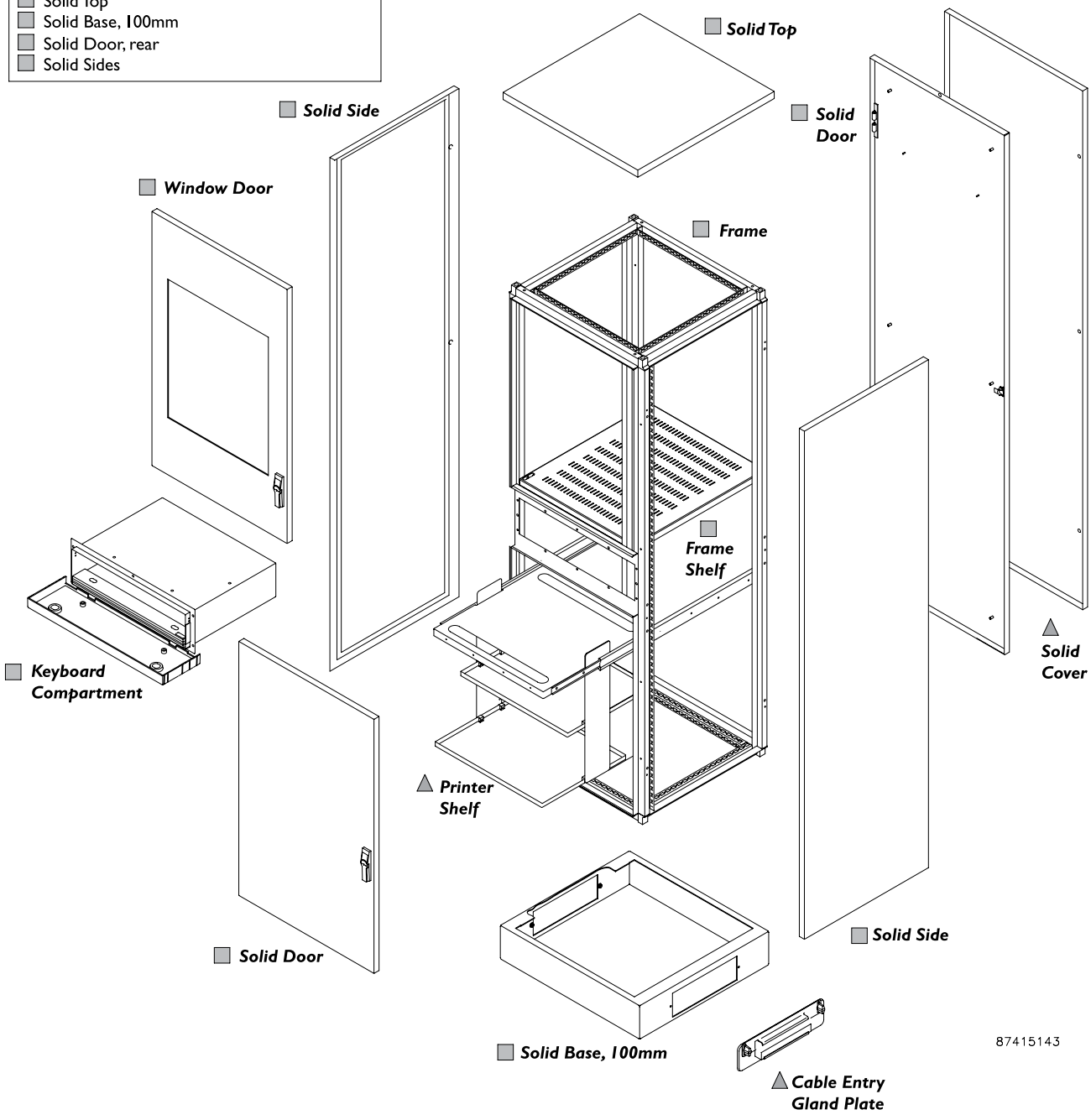
Standard Configuration

- Frame
- Frame Shelf, top compartment
- Keyboard Compartment
- Window Door, top front
- Solid Door, bottom front
- Solid Top
- Solid Base, 100mm
- Solid Door, rear
- Solid Sides

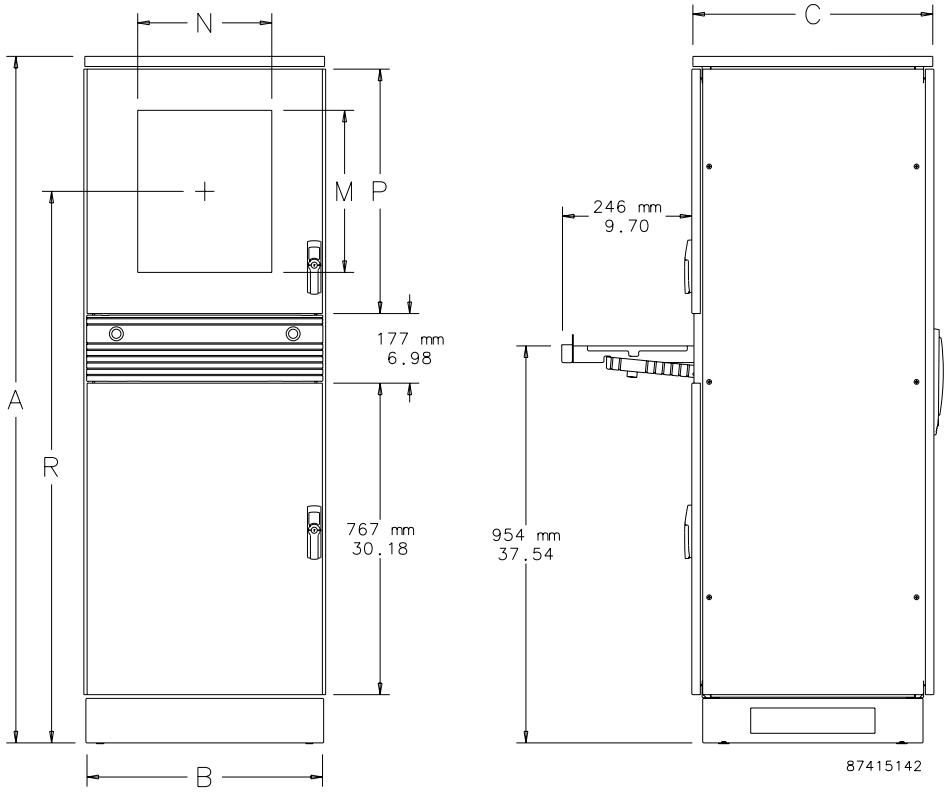
Optional Components

Optional components may be ordered separately.

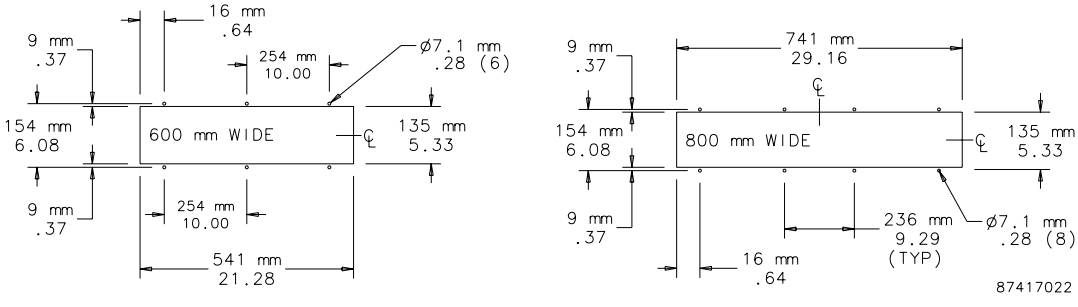
NOTE:
PFPC_____ frames have three front openings for top, center, and bottom modular components.



PROLINE-PC Modular Enclosure



Accessory Front Opening Mounting Cutout

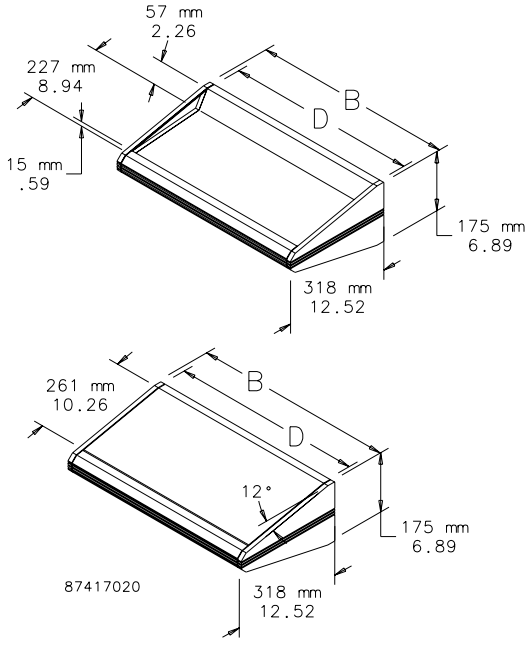


PROLINE-PC KEYBOARD SHELF

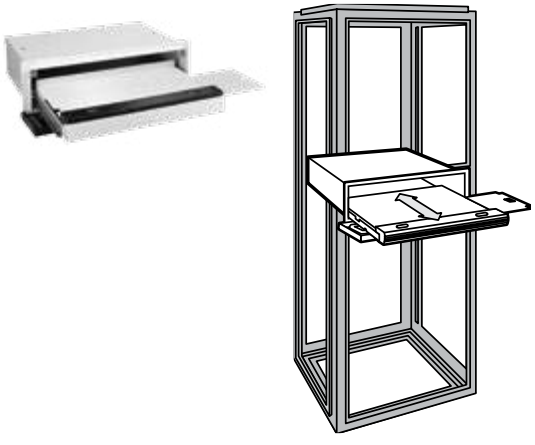
The stylized Keyboard Shelf is reversible, allowing two options for mounting keyboards. A standard keyboard can be placed in the recessed side. The recess is 5-degrees from horizontal and contains a knockout to allow the keyboard cord into the shelf interior. The flush side of the shelf provides a 12-degree mounting surface for membrane-type keyboards. Hole and grommet in rear surface of shelf provide keyboard cable access into the enclosure. Shelf has aluminum die-cast ends and an aluminum extrusion across the front edge to add styling detail and function as a palm rest for ergonomic keyboard orientation. Rear mounting surface is gasketed to maintain the UL and CSA integrity of the enclosure. Shelf is 14-gauge steel and finished with RAL 7035 textured, light-gray, polyester powder paint. Aluminum trim and die-cast sides are finished with RAL 9005 textured, black, polyester powder paint.

BULLETIN: P20PC

Catalog Number	Clear Space D (mm)	Clear Space D (in.)
PKBS6	563	22.17
PKBS8	763	30.04



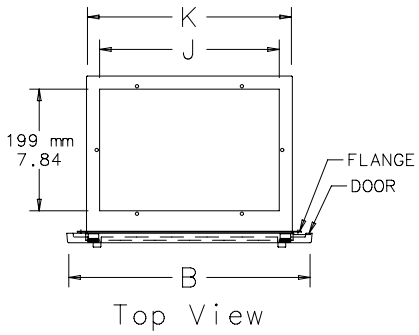
PROLINE-PC KEYBOARD COMPARTMENT



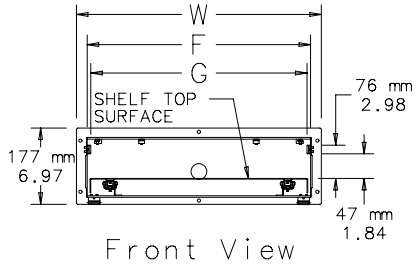
The Keyboard Compartment is a self-contained, sealed module that mounts to an accessory front opening. The lockable die-cast aluminum door is hinged along bottom edge and has pushbutton latches. PC keyboard rests on a ball-bearing glide shelf with a soft palm-rest. For PKBC6R, tray for mouse slides out from under the shelf. Seamless foam-in-place gasket on door assures a dust-tight seal. Door locks in position under extended shelf to secure shelf in open position. Hole and grommet in rear of compartment provide keyboard cable access into enclosure.
Compartment is finished with RAL 7035 textured, light-gray, polyester powder paint. Door is finished with RAL 9005 textured, black, polyester powder paint.

BULLETIN: P20

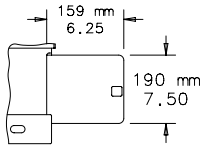
Catalog Number	F mm/in.	G mm/in.	J mm/in.	K mm/in.	M mm/in.	W mm/in.
PKBC6R	519	478	439	520	525	575
	20.43	18.83	17.29	20.49	20.68	22.62
PKBC8R	722	678	639	720	725	774
	28.42	26.70	25.16	28.36	28.55	30.49



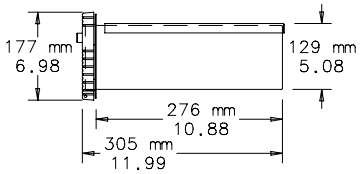
Top View



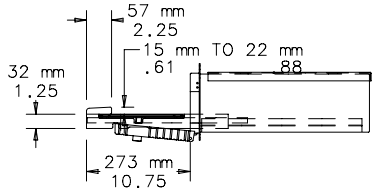
Front View



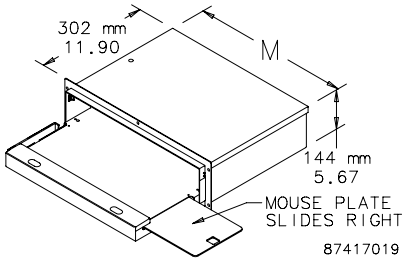
Detail Mouse Tray



Side View Compartment Closed



Side View Compartment Open

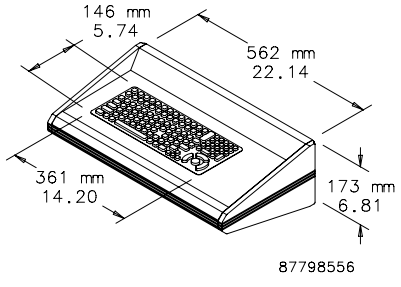


PROLINE-PC INTEGRATED KEYBOARD/MOUSE SHELVES

An elastomer keyboard/mouse combination is integrated into the keyboard shelf. The keyboard has 101 keys and the cables supplied are compatible with USB connections. The keyboard shelf is made of 14-gauge steel with RAL 7035 textured, light-gray, polyester powder paint. Rear surface is gasketed to maintain both UL and CSA integrity of the enclosure.

BULLETIN: P20

Catalog Number	Material	Description
PEKBMC6	Steel	Keyboard shelf with integrated keyboard and mouse

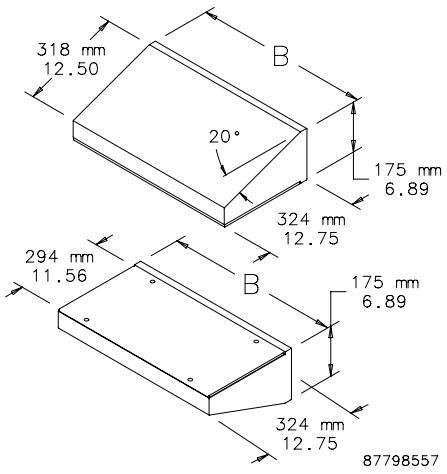


PROLINE-PC 20-DEGREE CONTROL COMPARTMENT

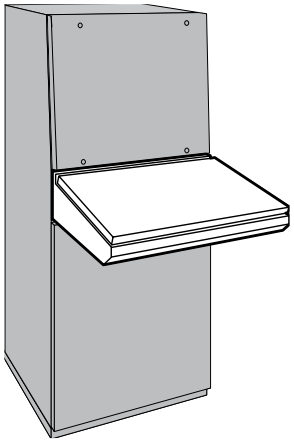
Reversible design provides 20-degree angled surface for mounting operator controls. Smaller angle maximizes mounting space available. The keyboard shelf is made of 14-gauge steel with RAL 7035 textured, light-gray, polyester powder paint. Screw cover on the flat side allows easy access inside compartment. Screw cover has foam-in-place gasketing. Compartment is gasketed around the open rear surface to extend the UL and CSA rating to the control compartment interior. Ground stud and mounting hardware included.

BULLETIN: P20

Catalog Number	Fits Frame Width
PC20A6	600 mm
PC20A8	800 mm



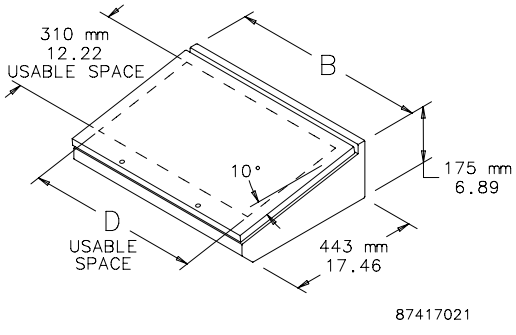
PROLINE-PC CONSOLET COMPARTMENT



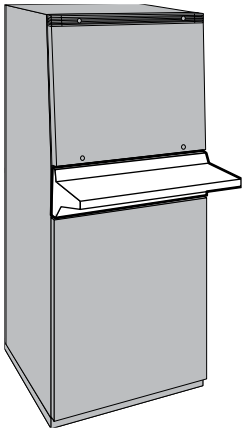
Provides sealed compartment for keyboard storage or protection for controls. Hinged door allows easy access to compartment. Door support holds door open at 90 degrees. Two quarter-turn integral latches are incorporated into the front edge of steel compartment doors. Foam-in-place gasket on door and gasket around open rear surface extend the UL and CSA rating to the consolet compartment interior. Compartment is Type 304 stainless steel or 14-gauge steel finished with RAL 7035 textured, light-gray, polyester powder paint. Ground studs and mounting hardware included.
The Flush Keylock (PSTLO) is available as an accessory.

BULLETIN: P20

Catalog Number	Material	Clear Space D mm/in.	Fits Frame Width
PCC6	Steel	525 20.66	600 mm
PCC8	Steel	725 28.54	800 mm



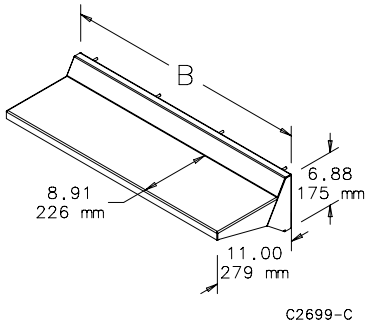
PROLINE-PC WRITING DESK



Provides a horizontal writing surface. Constructed of 14-gauge steel with RAL 7035 textured, light-gray, polyester powder paint finish. Rear surface is closed and gasketed to maintain both the UL and CSA integrity of the enclosure.

BULLETIN: P20PC

Catalog Number	Description	B mm/in.
PWD6	Writing Desk	592 23.30
PWD8	Writing Desk	792 31.17



Notes

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PROLINE-SY, TYPE 12

APPLICATION

Traditional PROLINE-SY Modular Enclosures are designed to protect many kinds of HMI systems, including panel- or rack-mount flat screens and control panels. There are multiple configuration possibilities—simply add components to the frame to create an enclosure that meets design requirements.

FEATURES

- The top compartment is open and can accommodate a variety of front cover, door and window door options
- Solid covers with prefabricated operator interface cutouts are available
- Internal grid straps are factory installed in top compartment to provide support for operator interfaces
- Two doors, one on the lower front and one on the back of the enclosure, provide convenient access and additional protection
- The bottom door is hinged on the left and has an attractive Keylocking Flush Swing Handle
- The solid rear door permits rear access to equipment and wiring and includes a keylocking pushbutton handle
- Standard external components include solid sides, solid top and a 100-mm solid base

NOTES

Top and bottom door opening size:
29.09 x 21.11 (739 x 536) on 600 mm wide
29.09 x 28.98 (739 x 736) on 800 mm wide

BULLETIN: P20SY

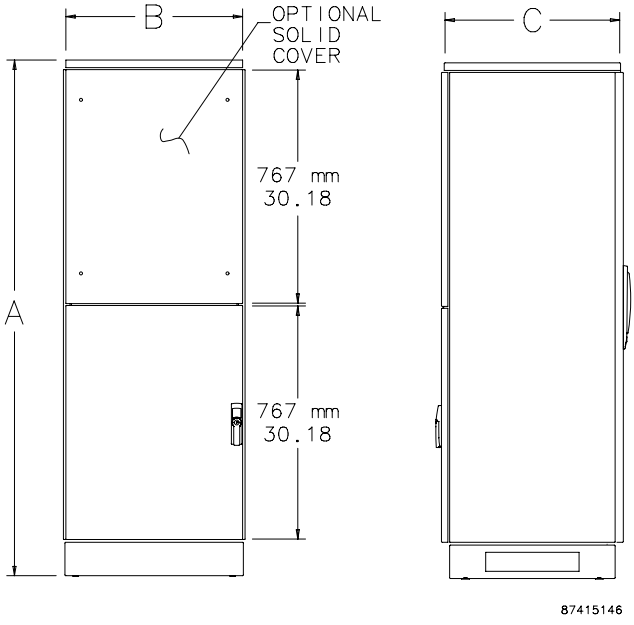
INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC Type 12
CSA File Number 42186: Type 12
VDE IP55
IEC 60529, IP55

Standard Product

Catalog Number	AxBxC mm	AxBxC in.
PSY1666	1600 x 600 x 600	62.99 x 23.62 x 23.62
PSY1686	1600 x 800 x 600	62.99 x 31.50 x 23.62



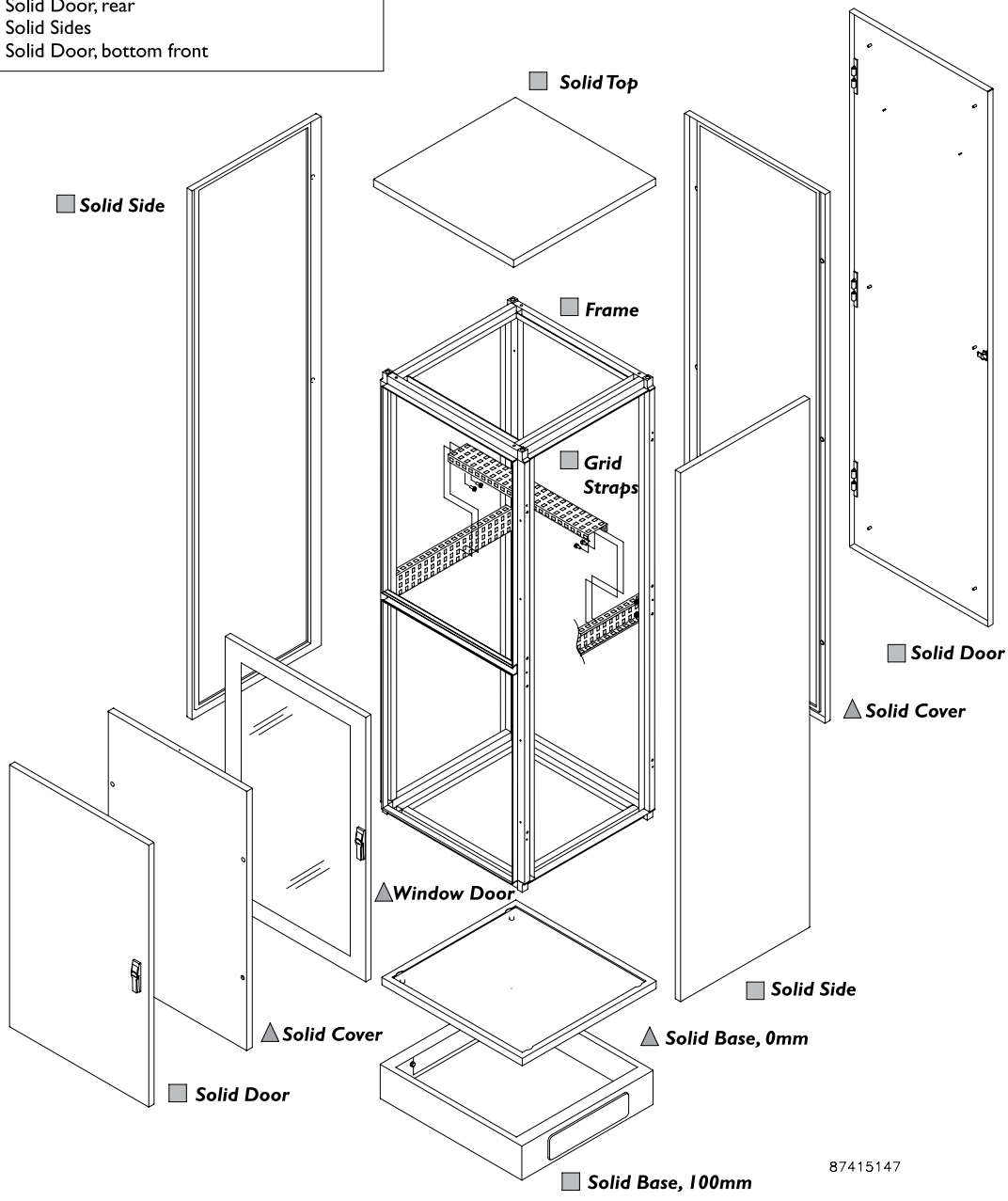
Standard Configuration

- Frame
- Grid Straps, top compartment
- Solid Top
- Solid Base, 100mm
- Solid Door, rear
- Solid Sides
- Solid Door, bottom front

Optional Components

Optional components may be ordered separately.

NOTE:
PFSY_____ frames have two front openings for top and bottom modular components.



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CHAPTER 7
HMI (HUMAN-MACHINE INTERFACE)

SYSPEND VL-MOTION ARM, TYPE 4

Vertical motion pendant arm effortlessly lifts, lowers and repositions HMI enclosures in NEMA Type 4 and 12 environments. Gas spring counterbalance can be adjusted for loads of 30-100 lb. Release handle and locking mechanism are ideal for applications where machine vibration is a concern.

SYSPEND MONITOR AND KEYBOARD ARM (NOVASTAR)

Support arm for monitor and keyboard
- Static load-carrying capacity 3–7 kg
- Support arm for mounting of monitor, keyboard and mouse on cabinet
- Fixing is to the side of the heavy duty rack (height adjustable)
- Suitable for industrial applications
- Integrated cable routing
- Support arm height - adjustable 300 mm angle of rotation on cabinet 180 ° Monitor rotation angle 340° (fitted on cabinet 270°)

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HMI PRODUCT SELECTION GUIDE

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			No Enclosure (Flatscreen monitor)	INLINE HMI	CONCEPT HMI	SYSPEND Aluminum HMI
SYSPEND Monitor & Keyboard Arm		Provides vertical height adjustment for flat screen monitors	•			
SYSPEND VL-Motion Arm		Provides vertical height adjustment for loads up to 100 lbs in NEMA Type 4 and 12 environments			•	•
SYSPEND VHD-Motion Arm		Provides vertical height adjustment for loads up to 125 lbs. in NEMA Type 4 and 12 environments			•	•
SYSPEND VHDS-Motion Arm		Provides vertical height adjustment for loads up to 125 lbs. in NEMA Type 4 environments				•
COMPACT Series 1		Provides vertical height adjustment for small enclosures/components up to 30 lbs in NEMA Type 12 environments		•		
COMPACT Series 2		Supports loads up to 101 lbs. in NEMA Type 12 environments		•	•	•
SYSPEND 180-MAX		Supports loads up to 180 lbs. in NEMA Type 12 environments	•	•	•	•
SYSPEND 281-MAX		Supports loads up to 281 lbs. in NEMA Type 12 environments			•	•
COMPACT Series 4 System 80		Supports loads up to 337 lbs. in NEMA Type 12 environments				•
CS480		Supports loads up to 89 lbs. in NEMA Type 4X environments				
CS600		Supports loads up to 134 lbs. in NEMA Type 4X environments				
4x4 Pedestals		Straight, angled, bolt-down and pedestals with legs		•	•	•
6x6 Pedestals		Straight and angled pedestals.				
8x8 Pedestals		Straight, angled, bolt-down and pedestals with legs				
8x8 Stainless Steel Pedestal		Straight pedestal with legs				

Stainless Steel HMI (CS480)	Stainless Steel HMI (CS600)	Consolets	PROLINE Sloped Front
	•		
		•	
		•	
		•	
			•
•			
	•		
		•	
		•	
			•
			•

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INLINE HMI, TYPE 4

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

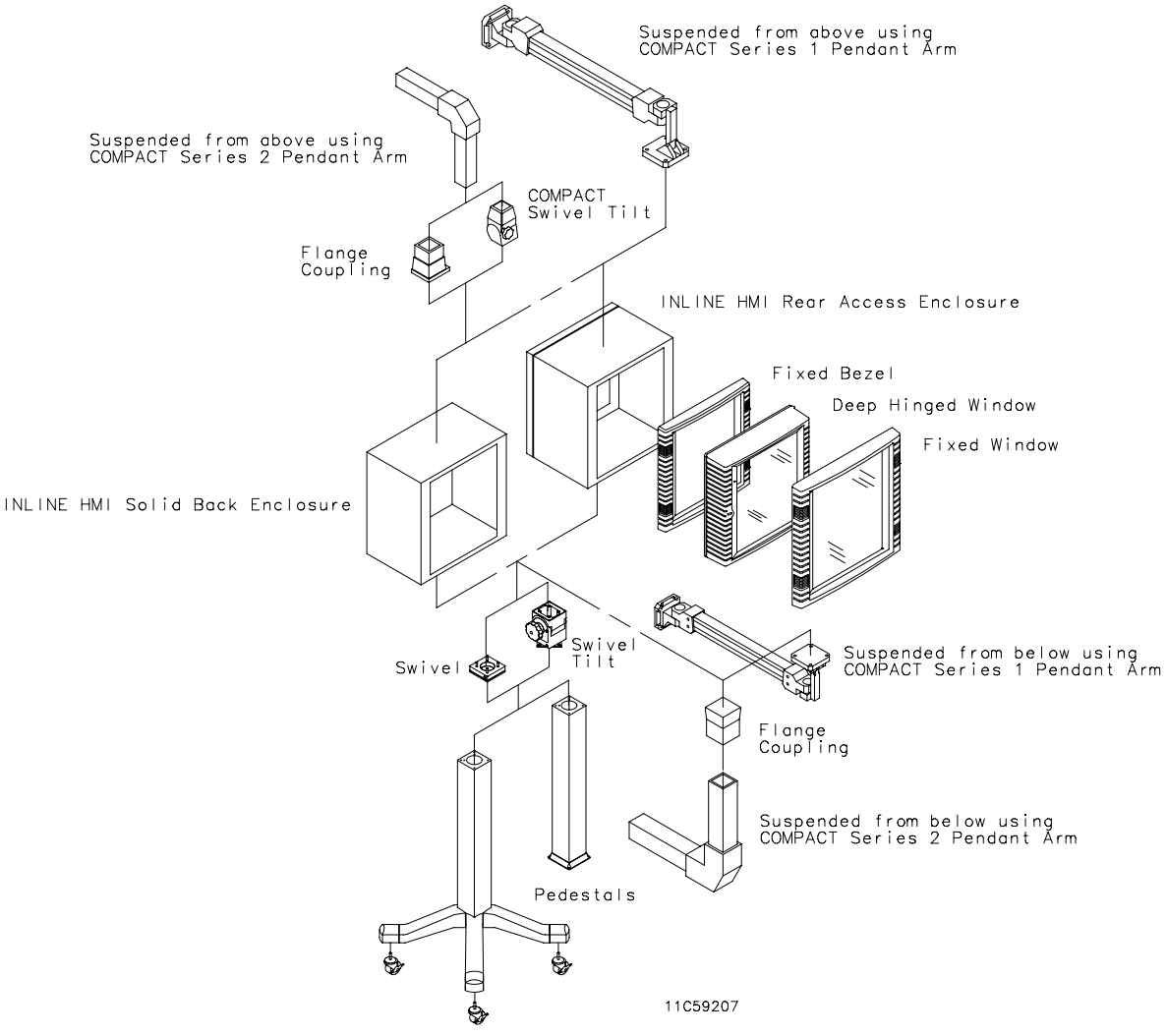
NEMA/EEMAC Type 4, 12
CSA File Number 42186: Type 4, 12
IEC 60529, IP66

APPLICATION

Practical functionality is the signature feature of all INLINE HMI enclosures. With multiple options that allow for many different configurations, these enclosures are highly adaptable and useful in applications where a protective housing is required for small HMI devices.

FINISH

RAL 7035 textured light-gray polyester powder paint inside and out over pretreated surfaces. Optional panels are white.

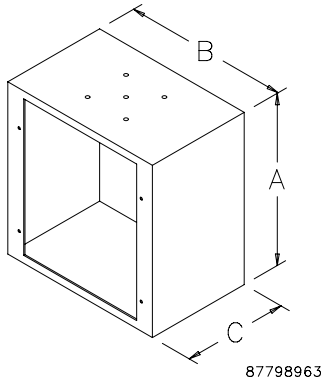


SOLID-BACK BODY

Solid-Back Body is 16 gauge steel with open front. Front is configured to install optional fixed bezel, deep-hinged window or fixed window. Panels or DIN rails mount on studs in the rear of the enclosure. Ground stud furnished. Drill points on enclosure mark location for pendant or pedestal mounting.

BULLETIN: C3

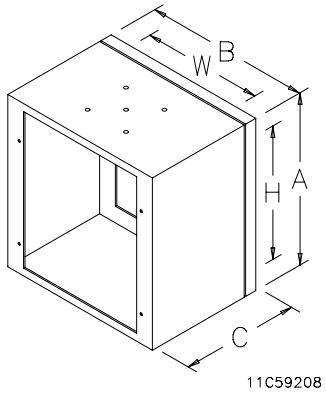
Catalog Number	AxBxC mm/in.	Description	Product Weight (lb.)
LLB161612	166 x 160 x 102 6.54 x 6.30 x 4.00	Solid-Back Body	2.7
LLB252512	250 x 250 x 102 9.84 x 9.84 x 4.02	Solid-Back Body	5.0



REAR-ACCESS BODY

Enclosure body is 16 gauge steel with rear-access door. Open front is configured to install optional fixed bezel, deep-hinged window or fixed window. Rear door, furnished with foam-in-place gasket and quarter-turn latch (standard slotted insert), accepts most INLINE door accessories. Ground stud furnished. Drill points on enclosure mark location for pendant or pedestal mounting.

BULLETIN: C3



Catalog Number	AxBxC mm/in.	Description	Rear Door Opening mm/in.	Product Weight (lb.)
LLBR161612	166 x 160 x 120 6.54 x 6.30 x 4.72	Rear Access Body	148 x 142 5.82 x 5.58	3.4
LLBR252512	250 x 250 x 120 9.84 x 9.84 x 4.72	Rear Access Body	232 x 232 9.13 x 9.13	5.7

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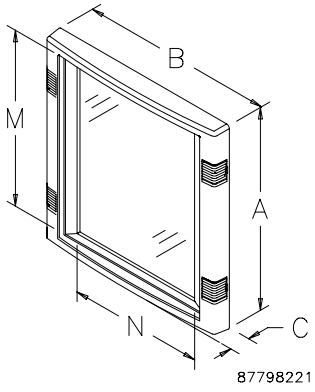
FIXED-WINDOW KIT

Aesthetic die-cast frame has .125-in.-thick clear polycarbonate window. Preassembled kit is secured to front opening of enclosure by mounting screws. Window frame caps conceal mounting screws. Frame has RAL 7035 light-gray textured polyester powder paint finish.

BULLETIN: C3

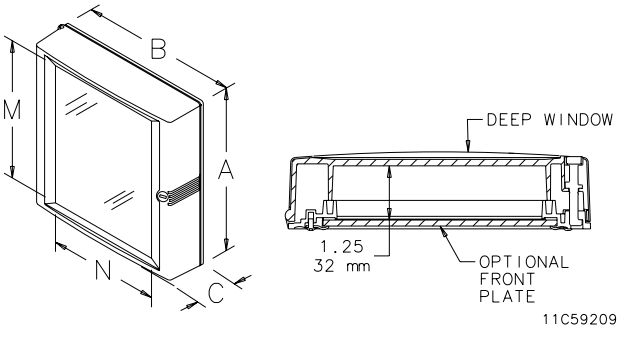


Catalog Number	AxBxC mm/in.	Window Size M x N mm/in.	Product Weight (lb.)
LWF2525	250 x 250 x 17 9.84 x 9.84 x 0.67	220 X 200 8.65 X 7.84	2.7

DEEP-HINGED WINDOW

Clear molded polycarbonate window has a 31.8-mm (1.25-in.) clear space between enclosure front opening and window surface. Space also accommodates equipment mounted on optional front plate. Window kit is hinged on left side with a 140-degree door opening and a quarter-turn slotted latch. Includes mounting hardware for window and optional front plate. Die-cast backing plate has a black polyester powder finish. This kit can be used as an accessory window kit on other Hoffman enclosures.

BULLETIN: C3



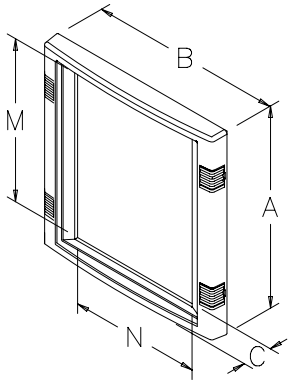
Catalog Number	AxBxC mm/in.	Window Size M x N mm/in.	Accepts Front Plate	Product Weight (lb.)
LWHD1616	166 x 160 x 41 6.54 x 6.30 x 1.64	139 x 112 5.47 x 4.43	LFP1616	1.5
LWHD2525	250 x 250 x 41 9.84 x 9.84 x 1.64	223 x 202 8.78 x 7.97	LFP2525	2.8

Purchase front plate separately.

FIXED HMI BEZEL

Aesthetic die-cast bezel frame accepts front plate or plates with HMI cutout. Includes gasket and mounting hardware. Furnished frame caps conceal mounting screws. Bezel has RAL 7035 light-gray textured polyester powder paint finish.

BULLETIN: C3



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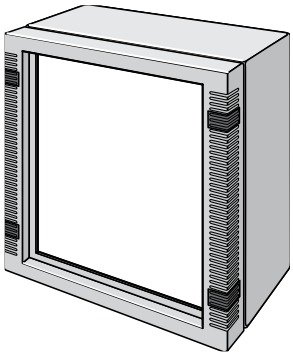
Catalog Number	AxBxC mm/in.	Window Size M x N mm/in.	Accepts Front Plate	Product Weight (lb.)
LBF1616	166 x 160 x 17 6.54 x 6.30 x 0.67	136 x 109 5.35 x 4.30	LFP1616	1.4
LBF2525	250 x 250 x 17 9.84 x 9.84 x 0.67	220 x 200 8.65 x 7.84	LFP2525	2.4

Purchase front plate separately.

FRONT PLATE, INLINE

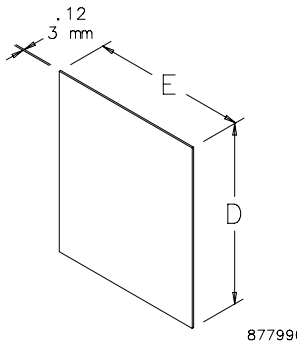


Aluminum plate is .125-in. thick. Front Plate mounts to inside of bezel or deep-hinged window. Order blank or pre-cut for HMI. (Gasket and mounting hardware are included with bezel.)
Hoffman can provide pre-configured front plates to meet your specific requirements. Contact your local Hoffman Sales Representative for more information.

BULLETIN: C3

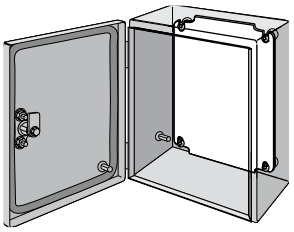
Catalog Number	D mm/in.	E mm/in.	Fits Bezel	Fits Deep Window	Product Weight (lb.)
LFP1616	149 5.85	122 4.80	LBF1616	LWHD1616	0.5
LFP2525	233 9.16	212 8.34	LBF2525	LWHD2525	1.1

Purchase deep window separately.



87799030

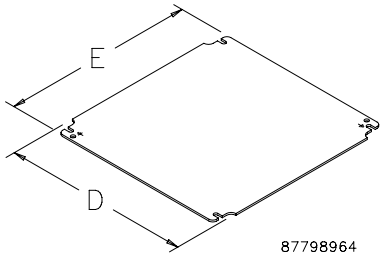
PANEL



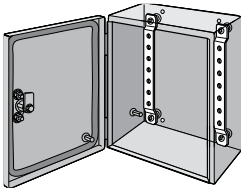
Panel is 12 gauge steel and fits solid back body enclosures only. Panels are painted white.

BULLETIN: A54P

Catalog Number	D mm/in.	E mm/in.	Fits INLINE HMI Enclosure	Product Weight (lb.)
LP1515	131 5.16	131 5.16	LLB161612	0.7
LP2520	231 9.09	181 7.13	LLB252512	1.8



DIN RAIL OR PANEL MOUNTING BRACKETS



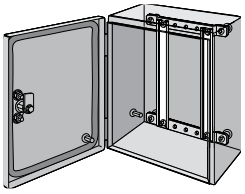
Brackets provide a mounting framework for installing DIN rails or a panel. Rails (or panel) attach to the brackets and the brackets are bolted directly to the enclosure. Brackets are offset to permit additional space in front of or behind mounted equipment. Brackets are plated 12 gauge steel.

BULLETIN: A54Y

Catalog Number	Fits INLINE HMI Enclosure	Product Weight (lb.)
LMK15	LLB161612	0.5
LMK20	LLB252512	0.6
LMK25	LLB252512	0.7

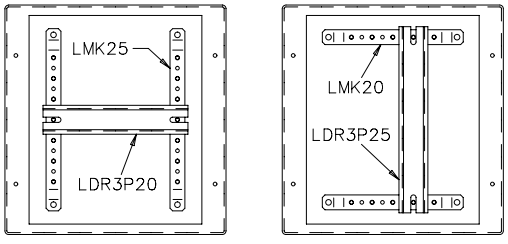
LMK20 fits horizontally. LMK25 fits vertically.

DIN TYPE RAILS



Rails furnish mounting surfaces for DIN3 mount snap-on devices. Rails attach vertically or horizontally to mounting brackets. Kit includes 4 rails, mounting hardware and installation instructions.

BULLETIN: A54Y



Catalog Number	Fits INLINE HMI Enclosure	Product Weight (lb.)
LDR3P15	LLB161612	0.4
LDR3P20	LLB252512	0.5
LDR3P25	LLB252512	0.7

LDR3P20 fits horizontally. LDR3P25 fits vertically.

LOCK INSERTS

Lock Inserts can replace the standard slotted quarter-turn latch. Key included.

BULLETIN: A54SY, A54Y

Catalog Number	Description
LLKSM7	Square 7 mm, Chrome Finish
LLKSM7SS	Square 7 mm, Type 316L Stainless Steel
LLKSM8	Square 8 mm, Chrome Finish
LLKDB	Daimler Benz, Chrome Finish
LLKDBM3	Double bit 3 mm, Chrome Finish
LLKSS	Slotted screw, Chrome Finish

WING KNOB LATCH

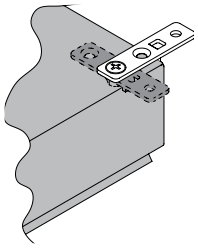
Wing Knob Latch can replace the standard slotted, quarter-turn latch on all hinged-cover and window-cover enclosures. Latch is black die-cast zinc. Includes two keys and installation instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLKWK	0.2 lb.

Reduces UL Type rating from 4 or 4X to 12.

MOUNTING BRACKET KIT, PLATED AND 316



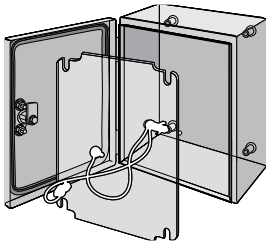
Kit is field-installable on all solid-back-body enclosures. Hardware included. Four brackets per kit.

BULLETIN: A54SY, A54Y

Catalog Number	Description
LMFK	Plated steel mounting-bracket kit
LMFKSS	Type 316L stainless steel mounting-bracket kit

Use of LMFKSS recommended to maintain Type 4X rating.

GROUNDING KIT



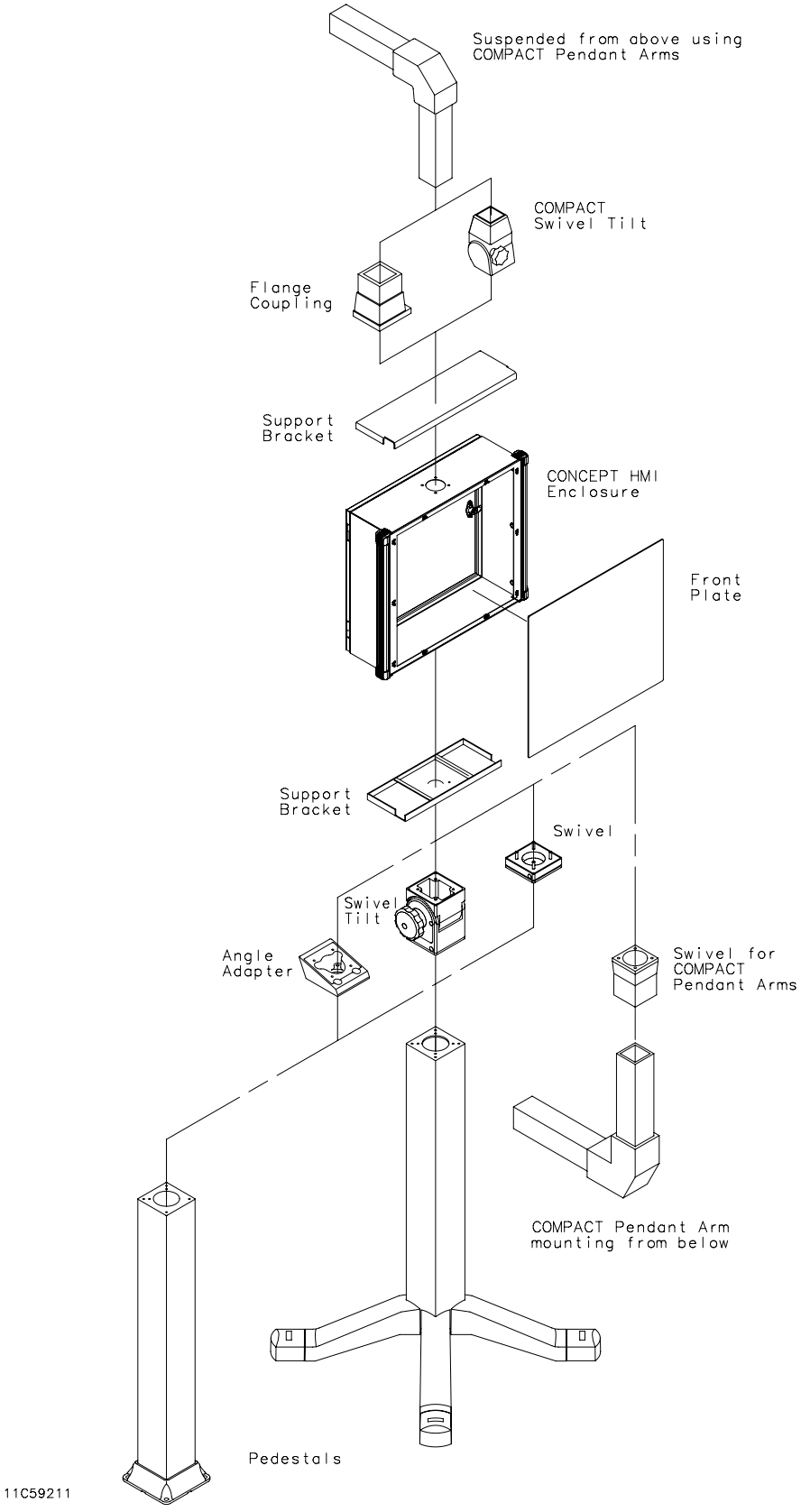
Grounding Kit provides means to attach a grounding conductor to the enclosure. Kit includes two insulated copper wires with a ring terminal at each end, all installation hardware and instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLGK	0.2 lb.

CONCEPT HMI OVERVIEW

These human-machine interface (HMI) enclosures are appropriate for applications incorporating flat-screen devices, pushbuttons and other similar devices. Available in three depths, the system's capability for pendent or pedestal mounting offers exceptional design flexibility.


Suspended from above using COMPACT Pendant Arms
COMPACT Swivel Tilt
Flange Coupling
Support Bracket
CONCEPT HMI Enclosure
Front Plate
Support Bracket
Swivel
Swivel Tilt
Angle Adapter
Swivel for COMPACT Pendant Arms
COMPACT Pendant Arm mounting from below
Pedestals
11C59211

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CONCEPT HMI, TYPE 4

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File Number E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA Type 4, 12
IEC 60529, IP66

APPLICATION

A traditional landscape-oriented HMI enclosure made of light-gray steel, the CONCEPT HMI is unique among HMI enclosure systems when you need a range of customization options. This pendant- or pedestal-mounted system has many possible configurations and modifications, including a removable front plate that makes it easy to install HMI components and the ability to accommodate cutouts anywhere on the enclosure.

FEATURES

- Predrilled hole in top for pendant arm mounting
- Pedestal mounting when enclosure is inverted
- Integral handle extrusions have a comfort grip that extends the length of the profile; standard color black
- Blue integral handle extrusions and end caps are also available
- Hinged rear corner-formed door has a single-point latch, seamless foam-in-place gasket and panel studs
- Aluminum front plate

SPECIFICATIONS

- Body manufactured from 14 gauge steel
- Front plate is .125-in. aluminum
- Grounding stud on body; bonding provision on door
- Simple easy-to-remove and install hinge pins with built-in captive clip
- High-torque threadless studs and fasteners on door

FINISH

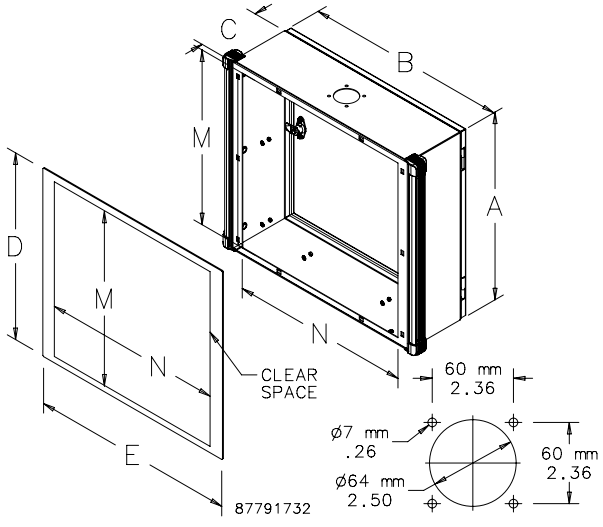
Enclosure body and front plate have RAL 7035 light-gray polyester powder paint finish. Standard handle extrusions and end caps have RAL 9005 black polyester powder paint finish.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Thermoplastic Data Pocket, page 1353
Electric Heaters, page 1236
Compact Axial Fans, page 1202
Touch-Up Paint, page 1379

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.



BULLETIN: C2

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Standard Product **CONCEPT HMI Enclosures with Black Extrusions**

Catalog Number	AxBxC mm	AxBxC in.	Front Opening M (mm)	Front Opening M (in.)	Front Opening N (mm)	Front Opening N (in.)	Front Plate D (mm)	Front Plate D (in.)	Front Plate E (mm)	Front Plate E (in.)	Product Weight (lb.)
CP253512	250 x 350 x 120	9.84 x 13.78 x 4.72	210	8.27	280	11.02	250	9.86	361	14.22	10.5
CP304012	300 x 400 x 120	11.81 x 15.75 x 4.72	260	10.24	330	12.99	300	11.83	411	16.19	14.9
CP323512	320 x 350 x 120	12.60 x 13.78 x 4.72	285	11.22	280	11.02	325	12.81	361	14.22	16.5
CP354512	350 x 450 x 120	13.78 x 17.72 x 4.72	310	12.20	380	14.96	350	13.79	461	18.16	20.0
CP354518	350 x 450 x 180	13.78 x 17.72 x 7.09	310	12.20	380	14.96	350	13.79	461	18.16	22.3
CP354530	350 x 450 x 300	13.78 x 17.72 x 11.80	310	12.20	380	14.96	350	13.79	461	18.16	26.9
CP374012	370 x 400 x 120	14.57 x 15.75 x 4.72	335	13.19	330	12.99	375	14.78	411	16.19	20.0
CP405012	400 x 500 x 120	15.75 x 19.69 x 4.72	360	14.17	430	16.93	400	15.76	511	20.13	24.3
CP405018	400 x 500 x 180	15.75 x 19.69 x 7.09	360	14.17	430	16.93	400	15.76	511	20.13	26.5
CP405030	400 x 500 x 300	15.75 x 19.69 x 11.80	360	14.17	430	16.93	400	15.76	511	20.13	30.9
CP424512	420 x 450 x 120	16.54 x 17.72 x 4.72	385	15.16	380	14.96	425	16.75	461	18.16	23.9
CP424518	420 x 450 x 180	16.54 x 17.72 x 7.09	385	15.16	380	14.96	425	16.75	461	18.16	25.8
CP424530	425 x 450 x 300	16.73 x 17.72 x 11.80	385	15.16	380	14.96	425	16.75	461	18.16	30.2
CP455512	450 x 550 x 120	17.72 x 21.65 x 4.72	410	16.14	480	18.90	450	17.73	561	22.10	28.6
CP455518	450 x 550 x 180	17.72 x 21.65 x 7.09	410	16.14	480	18.90	450	17.73	561	22.10	31.0
CP455530	450 x 550 x 300	17.72 x 21.65 x 11.80	410	16.14	480	18.90	450	17.73	561	22.10	35.8
CP475012	470 x 500 x 120	18.50 x 19.69 x 4.72	435	17.13	430	16.93	475	18.72	511	20.13	28.0
CP475018	470 x 500 x 180	18.50 x 19.69 x 7.09	435	17.13	430	16.93	475	18.72	511	20.13	30.2
CP475030	475 x 500 x 300	18.70 x 19.69 x 11.80	435	17.13	430	16.93	475	18.72	511	20.13	34.6
CP486012	480 x 600 x 120	18.90 x 23.62 x 4.72	440	17.32	530	20.87	480	18.90	611	24.06	32.2
CP486018	480 x 600 x 180	18.90 x 23.62 x 7.09	440	17.32	530	20.87	480	18.90	611	24.06	34.6
CP486030	480 x 600 x 300	18.90 x 23.62 x 11.80	440	17.32	530	20.87	480	18.90	611	24.06	39.4
CP525512	520 x 550 x 120	20.47 x 21.65 x 4.72	485	19.09	480	18.90	525	20.68	561	22.10	32.5
CP525518	520 x 550 x 180	20.47 x 21.65 x 7.09	485	19.09	480	18.90	525	20.68	561	22.10	34.9
CP525530	525 x 550 x 300	20.67 x 21.65 x 11.80	485	19.09	480	18.90	525	20.68	561	22.10	39.7
CP556012	550 x 600 x 120	21.65 x 23.62 x 4.72	515	20.28	530	20.87	555	21.86	611	24.06	36.8
CP556018	550 x 600 x 180	21.65 x 23.62 x 7.09	515	20.28	530	20.87	555	21.86	611	24.06	38.8
CP556030	555 x 600 x 300	21.85 x 23.62 x 11.80	515	20.28	530	20.87	555	21.86	611	24.06	43.6

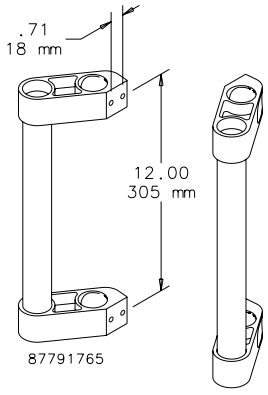
Standard Product **CONCEPT HMI Enclosures with Blue Extrusions**

Catalog Number	AxBxC mm	AxBxC in.	Front Opening M (mm)	Front Opening M (in.)	Front Opening N (mm)	Front Opening N (in.)	Front Plate D (mm)	Front Plate D (in.)	Front Plate E (mm)	Front Plate E (in.)	Product Weight (lb.)
CP253512B	250 x 350 x 120	9.84 x 13.78 x 4.72	210	8.27	280	11.02	250	9.86	361	14.22	10.5
CP304012B	300 x 400 x 120	11.81 x 15.75 x 4.72	260	10.24	330	12.99	330	12.99	411	16.19	14.9
CP323512B	320 x 350 x 120	12.60 x 13.78 x 4.72	285	11.22	280	11.02	325	12.81	361	14.22	16.5
CP354512B	350 x 450 x 120	13.78 x 17.72 x 4.72	310	12.20	380	14.96	350	13.79	461	18.16	20.0
CP354518B	350 x 450 x 180	13.78 x 17.72 x 7.09	310	12.20	380	14.96	350	13.79	461	18.16	22.3
CP354530B	350 x 450 x 300	13.78 x 17.72 x 11.80	310	12.20	380	14.96	350	13.79	461	18.16	26.9
CP374012B	370 x 400 x 120	14.57 x 15.75 x 4.72	335	13.19	330	12.99	375	14.78	411	16.19	20.0
CP405012B	400 x 500 x 120	15.75 x 19.69 x 4.72	360	14.17	430	16.93	400	15.76	511	20.13	24.3
CP405018B	400 x 500 x 180	15.75 x 19.69 x 7.09	360	14.17	430	16.93	400	15.76	511	20.13	26.5
CP405030B	400 x 500 x 300	15.75 x 19.69 x 11.80	360	14.17	430	16.93	400	15.76	511	20.13	30.9
CP424512B	420 x 450 x 120	16.54 x 17.72 x 4.72	385	15.16	380	14.96	425	16.75	461	18.16	23.9
CP424518B	420 x 450 x 180	16.54 x 17.72 x 7.09	385	15.16	380	14.96	425	16.75	461	18.16	25.8
CP424530B	425 x 450 x 300	16.73 x 17.72 x 11.80	385	15.16	380	14.96	425	16.75	461	18.16	30.2
CP455512B	450 x 550 x 120	17.72 x 21.65 x 4.72	410	16.14	480	18.90	450	17.73	561	22.10	28.6
CP455518B	450 x 550 x 180	17.72 x 21.65 x 7.09	410	16.14	480	18.90	450	17.73	561	22.10	31.0
CP455530B	450 x 550 x 300	17.72 x 21.65 x 11.80	410	16.14	480	18.90	450	17.73	561	22.10	35.8
CP475012B	470 x 500 x 120	18.50 x 19.69 x 4.72	435	17.13	430	16.93	475	18.72	511	20.13	28.0
CP475018B	470 x 500 x 180	18.50 x 19.69 x 7.09	435	17.13	430	16.93	475	18.72	511	20.13	30.2
CP475030B	475 x 500 x 300	18.70 x 19.69 x 11.80	435	17.13	430	16.93	475	18.72	511	20.13	34.6
CP486012B	480 x 600 x 120	18.90 x 23.62 x 4.72	440	17.32	530	20.87	480	18.90	611	24.06	32.2
CP486018B	480 x 600 x 180	18.90 x 23.62 x 7.09	440	17.32	530	20.87	480	18.90	611	24.06	34.6
CP486030B	480 x 600 x 300	18.90 x 23.62 x 11.80	440	17.32	530	20.87	480	18.90	611	24.06	39.4
CP525512B	520 x 550 x 120	20.47 x 21.65 x 4.72	485	19.09	480	18.90	525	20.68	561	22.10	32.5
CP525518B	520 x 550 x 180	20.47 x 21.65 x 7.09	485	19.09	480	18.90	525	20.68	561	22.10	34.9
CP525530B	525 x 550 x 300	20.67 x 21.65 x 11.80	485	19.09	480	18.90	525	20.68	561	22.10	39.7
CP556012B	550 x 600 x 120	21.65 x 23.62 x 4.72	515	20.28	530	20.87	555	21.86	611	24.06	36.8
CP556018B	550 x 600 x 180	21.65 x 23.62 x 7.09	515	20.28	530	20.87	555	21.86	611	24.06	38.8
CP556030B	555 x 600 x 300	21.85 x 23.62 x 11.80	515	20.28	530	20.87	555	21.86	611	24.06	43.6

ACCESSORY HANDLE KIT

Install handles on the integral handle extrusions or the bottom of the enclosure. Handle is 13.40-in. long and can be cut down to fit smaller enclosure sizes. Aluminum tube has RAL 9005 black polyester powder paint finish. Plastic ends are RAL 9005 black. Kit includes one pair of handles and all mounting hardware.

BULLETIN: C2

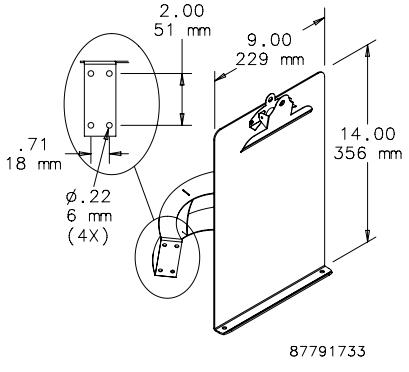


Catalog Number	Description	Product Weight (lb.)
CHDLK	One pair of handles and mounting hardware	1.7

CLIPBOARD/WHITE BOARD

The Clipboard/White Board can be installed on either handle extrusion. All mounting hardware and installation instructions are included. Finished with white paint. Dry-erase markers can be used on the front writing surface.

BULLETIN: C2

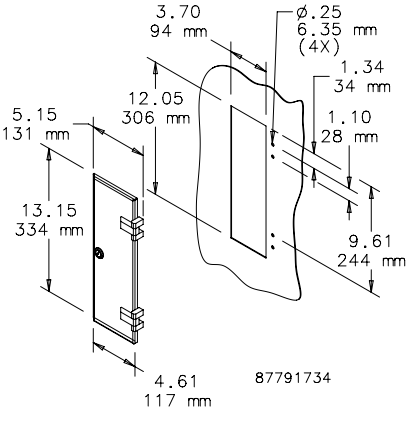


Catalog Number	Description	Product Weight (lb.)
CCLPBRD	Clipboard and mounting hardware	2

DRIVE ACCESS DOOR

Drive door can be installed only on enclosures to access internal disk drives. Key-locking latch is included. An installation template is included in the installation instructions. All installation hardware is included. RAL 7035 light-gray polyester powder paint finish. Hinges have RAL 9005 black polyester powder paint finish. Maintains NEMA Type 12 rating. Cannot be used on 120-mm deep enclosures.

BULLETIN: C2

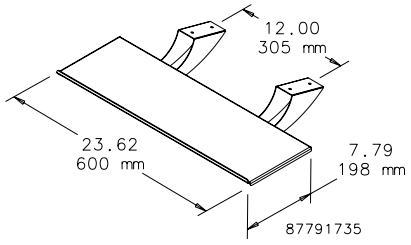


Catalog Number	Description	Product Weight (lb.)
CDACCDR	Door and installation hardware	1.7

KEYBOARD TRAY

The Keyboard Tray mounts under the enclosure for a keyboard and mouse. All mounting hardware is included. The tray has RAL 7035 light-gray polyester powder paint finish.

BULLETIN: C2

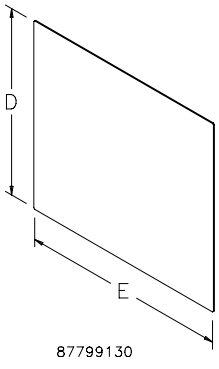


Catalog Number	Description	Product Weight (lb.)
CKBT	Keyboard tray and mounting hardware	3.2

REPLACEMENT FRONT PLATE

Aluminum plate is .125-in. thick. Finish is RAL 7035 light-gray polyester powder paint. Mounting hardware is included.

BULLETIN: C2



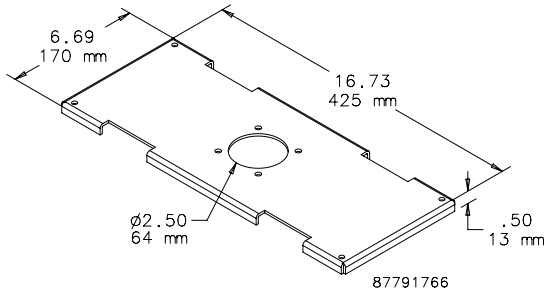
Catalog Number	D mm/in.	E mm/in.	Fits Enclosure A x B mm/in.	Product Weight (lb.)
CPFP2535	250 9.84	361 14.22	250 x 350 9.84 x 13.78	1.7
CPFP3040	300 11.81	411 16.19	300 x 400 11.81 x 15.75	2.4
CPFP3235	325 12.80	361 14.22	325 x 350 12.80 x 13.78	2.3
CPFP3545	350 13.78	461 18.16	350 x 450 13.78 x 17.72	3.1
CPFP3740	375 14.76	411 16.19	375 x 400 14.76 x 15.75	3.0
CPFP4050	400 15.75	511 20.13	400 x 500 15.75 x 19.68	3.9
CPFP4245	425 16.73	461 18.16	425 x 450 16.73 x 17.72	3.8
CPFP4555	450 17.72	561 22.10	450 x 550 17.72 x 21.65	4.8
CPFP4750	475 18.70	511 20.13	475 x 500 18.70 x 19.68	4.7
CPFP4860	480 18.90	611 24.06	480 x 600 18.90 x 23.62	5.6
CPFP5255	525 20.67	561 22.10	525 x 550 20.67 x 21.65	5.6
CPFP5560	555 21.85	611 24.06	555 x 600 21.85 x 23.62	6.5

SUPPORT BRACKET

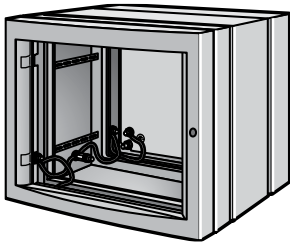
Support Bracket provides extra rigidity in 180-mm-deep enclosures that are either pendant- or pedestal-mounted. The bracket mounts in the top or bottom of the enclosure; drilling is required (drill points included on enclosure). The support bracket is not required for 120-mm-deep enclosures.

BULLETIN: C2

Catalog Number	Description	Product Weight (lb.)
CSB180	One bracket per package	1.8



GROUNDING KIT



Kit provides a means of attaching a grounding conductor to an enclosure. Kit consists of two insulated copper wires with all installation hardware and instructions included.

BULLETIN: C2

Catalog Number
CCGK

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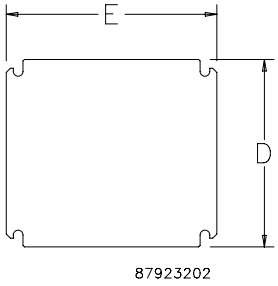
DOOR PANELS

Use CONCEPT HMI Door Panels for mounting in the rear door of a CONCEPT HMI enclosure. Constructed of 14 gauge steel and painted white; conductive panels have a galvanized finish.

BULLETIN: C2



Catalog Number	Type	Gauge	D (mm)	D (in.)	E (mm)	E (in.)
CP2535	Steel	14	131	5.18	232	9.14
CP2535G	Conductive	12	131	5.18	232	9.14
CP3040	Steel	14	181	7.15	282	11.11
CP3040G	Conductive	12	181	7.15	282	11.11
CP3235	Steel	14	206	8.13	232	9.14
CP3235G	Conductive	12	206	8.13	232	9.14
CP3545	Steel	14	232	9.12	332	13.08
CP3545G	Conductive	12	232	9.12	332	13.08
CP3740	Steel	14	256	10.10	282	11.11
CP3740G	Conductive	12	256	10.10	282	11.11
CP4050	Steel	12	281	11.09	382	15.04
CP4050G	Conductive	12	281	11.09	382	15.04
CP4245	Steel	12	306	12.07	332	13.08
CP4245G	Conductive	12	306	12.07	332	13.08
CP4555	Steel	12	331	13.05	432	17.01
CP4555G	Conductive	12	331	13.05	432	17.01
CP4750	Steel	12	356	14.04	382	15.04
CP4750G	Conductive	12	356	14.04	382	15.04
CP4860	Steel	12	361	14.23	482	18.98
CP4860G	Conductive	12	361	14.23	482	18.98
CP5255	Steel	12	407	16.01	432	17.01
CP5255G	Conductive	12	407	16.01	432	17.01
CP5560	Steel	12	436	17.19	482	18.98
CP5560G	Conductive	12	436	17.19	482	18.98

Notes

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STAINLESS STEEL HMI ENCLOSURES, TYPE 4X

APPLICATION

These stainless steel, front-door control enclosures are ideal for applications that require corrosion resistance and the suspension of process and control equipment for easy cleaning.

Use these enclosures with the CS480 and CS600 Pendant Arm Systems.

SPECIFICATIONS

- Enclosure constructed of 1.5-mm Type 304 stainless steel
- Front door constructed of 1.5-mm Type 304 stainless steel
- Polyurethane foam gaskets
- Front door hinged on side
- Facilities for installing mounting plates
- Stainless steel safety latch mounted at side, away from protected space
- Can be mounted from top or bottom

BULLETIN: CCR6

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12; File No. E61997

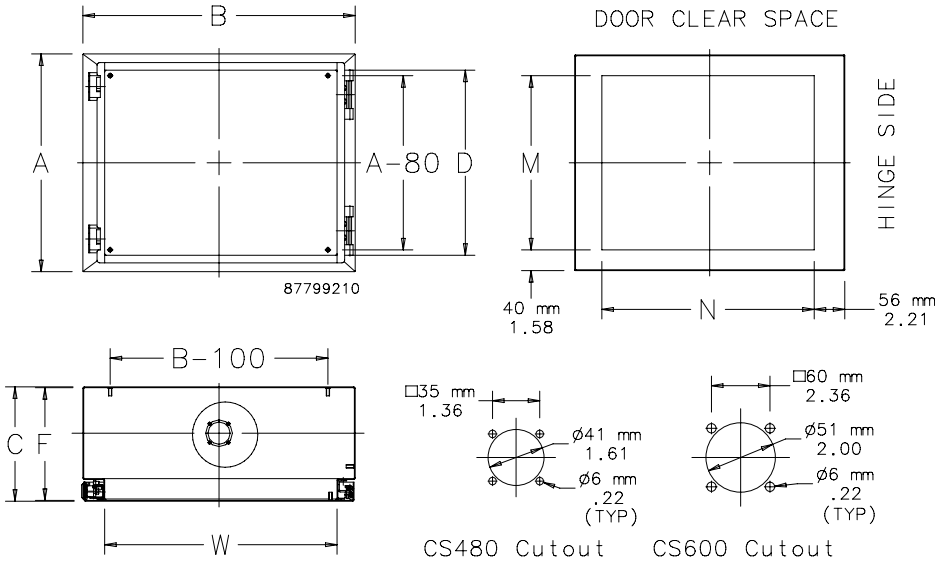
IEC 60529, IP66

Standard Product

Catalog Number	AxBxC mm	AxBxC in.	Use with Pendant Arm System	D (mm)	D (in.)	W (mm)	W (in.)	F (mm)	F (in.)	Door Clear Space M x N (mm)	Door Clear Space M x N (in.)	Mounting Plate
CCC48S302513	300 x 250 x 130	11.81 x 9.84 x 5.12	CS480	240	9.45	177	6.96	125	4.90	220 x 140	8.66 x 5.51	CCCP3025
CCC48S303513	300 x 350 x 130	11.81 x 13.78 x 5.12	CS480	240	9.45	277	10.86	125	4.90	220 x 240	8.66 x 9.45	CCCP3035
CCC48S354016	350 x 400 x 160	13.78 x 15.75 x 6.30	CS480	290	11.42	327	12.86	155	6.08	270 x 290	10.63 x 11.42	CCCP3540
CCC60S354016	350 x 400 x 160	13.78 x 15.75 x 6.30	CS600	290	11.42	327	12.86	155	6.08	270 x 290	10.63 x 11.42	CCCP3540
CCC48S404016	400 x 400 x 160	15.75 x 15.75 x 6.30	CS480	340	13.39	327	12.86	155	6.08	320 x 290	12.59 x 11.42	CCCP4040
CCC60S404016	400 x 400 x 160	15.75 x 15.75 x 6.30	CS600	340	13.39	327	12.86	155	6.08	320 x 290	12.59 x 11.42	CCCP4040
CCC48S405021	400 x 500 x 210	15.75 x 19.69 x 8.27	CS480	340	13.39	427	16.80	205	8.05	320 x 390	12.59 x 15.35	CCCP4050
CCC60S405021	400 x 500 x 210	15.75 x 19.69 x 8.27	CS600	340	13.39	427	16.80	205	8.05	320 x 390	12.59 x 15.35	CCCP4050
CCC48S455521	450 x 550 x 210	17.72 x 21.65 x 8.27	CS480	390	15.35	477	18.77	205	8.05	370 x 440	14.57 x 17.32	CCCP4555
CCC60S455521	450 x 550 x 210	17.72 x 21.65 x 8.27	CS600	390	15.35	477	18.77	205	8.05	370 x 440	14.57 x 17.32	CCCP4555
CCC48S505521	500 x 550 x 210	19.69 x 21.65 x 8.27	CS480	440	17.32	477	18.77	205	8.05	420 x 440	16.54 x 17.32	CCCP5055
CCC60S505521	500 x 550 x 210	19.69 x 21.65 x 8.27	CS600	440	17.32	477	18.77	205	8.05	420 x 440	16.54 x 17.32	CCCP5055
CCC48S605521	600 x 550 x 210	23.62 x 21.65 x 8.27	CS480	540	21.26	477	18.77	205	8.05	520 x 440	20.47 x 17.32	CCCP6055
CCC60S605521	600 x 550 x 210	23.62 x 21.65 x 8.27	CS600	540	21.26	477	18.77	205	8.05	520 x 440	20.47 x 17.32	CCCP6055
CCC60S605530	600 x 550 x 300	23.62 x 21.65 x 11.81	CS600	540	21.26	477	18.77	295	11.60	520 x 440	20.47 x 17.32	CCCP6055

Pendant Cutout

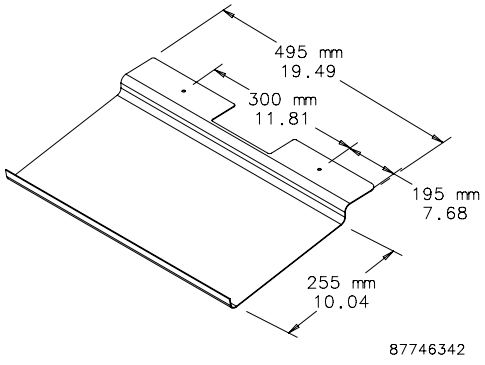
Catalog Numbers	Pendant Cutout	Weight (lb.)	Weight (kg)
CS480			
CCC48S302513	CS480	14.00	6.4
CCC48S303513	CS480	14.00	6.4
CCC48S354016	CS480	16.00	7.3
CCC48S404016	CS480	20.00	9.1
CCC48S405021	CS480	26.00	11.8
CCC48S455521	CS480	28.00	12.7
CCC48S505521	CS480	30.00	13.6
CCC48S605521	CS480	32.00	14.5
CS600			
CCC60S354016	CS600	16.00	7.3
CCC60S404016	CS600	20.00	9.1
CCC60S405021	CS600	26.00	11.8
CCC60S455521	CS600	28.00	12.7
CCC60S505521	CS600	30.00	13.6
CCC60S605521	CS600	32.00	14.5
CCC60S605530	CS600	36.00	16.3



KEYBOARD SHELF

Shelf is for 350-mm and wider enclosures. Stainless steel. 10-degree slope. Mounting hardware included. Enclosure machining required.

BULLETIN: CCR6Y



Catalog Number	Description	Weight (lb.)
CCSSKBT	Keyboard shelf	4.9

MOUNTING PLATE

Plate is for mounting equipment on the rear panel. Made of 3-mm plated steel. Mounted using pins on the rear panel.

BULLETIN: CCR6Y

Catalog Number	Height (mm)	Height (in.)	Width (mm)	Width (in.)	Weight (lb.)
CCCP3025	230	9.06	170	6.69	2.0
CCCP3035	230	9.06	270	10.63	2.0
CCCP3540	280	11.02	320	12.60	3.0
CCCP4040	330	12.99	320	12.60	3.0
CCCP4050	330	12.99	420	16.54	4.0
CCCP4555	380	14.96	470	18.50	5.0
CCCP5055	430	16.93	470	18.50	6.0
CCCP6055	530	20.87	470	18.50	7.0

HANDLES

Handles are stainless steel for mounting on enclosure sides. Mounting hardware included. Enclosure machining required. (Handles are not required to use the SYSPEND VHDS-Motion Arm.)

BULLETIN: CCR6Y

Catalog Number	Description	Weight (lb.)
CCSSHDL	Handles for CC480/600 enclosures	5.0

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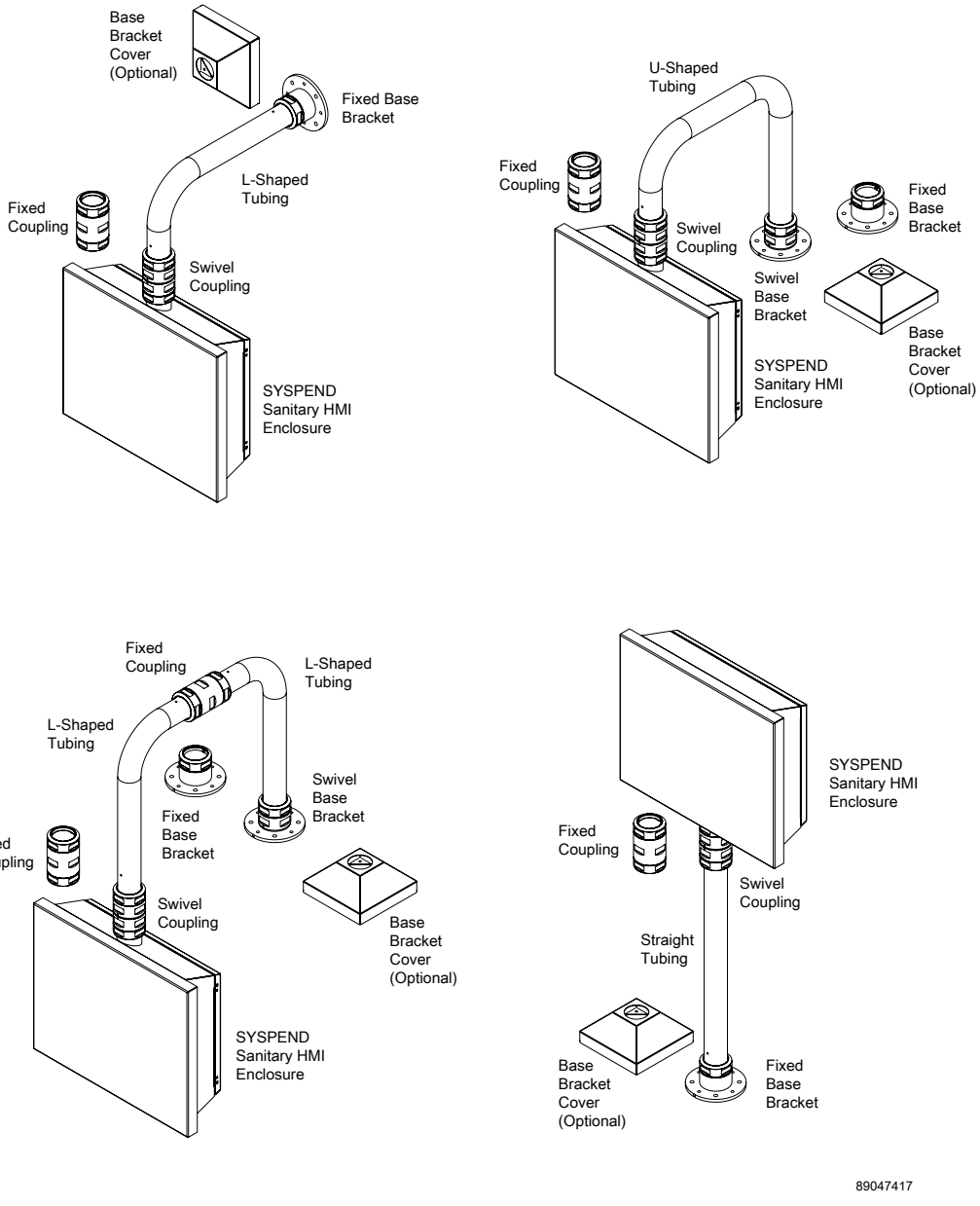
SYSPEND HMI SANITARY SYSTEM OVERVIEW

The SYSPEND Sanitary HMI (Human-Machine Interface) System is a Type 304 stainless steel enclosure series and suspension system designed to enclose, protect and suspend lightweight HMI devices up to a maximum load of 90 lb. (40.8 kg) in NEMA Type 4X environments.

The system features a modular design for application versatility and is specifically designed to meet the demanding needs of sanitary environments. The entire system meets Type 4X and IP69K requirements for high-pressure, high-temperature washdown applications.


Base Bracket Cover (Optional)
Fixed Base Bracket
L-Shaped Tubing
Fixed Coupling
Swivel Coupling
SYSPEND Sanitary HMI Enclosure
U-Shaped Tubing
Fixed Coupling
Swivel Coupling
Fixed Base Bracket
Swivel Base Bracket
Base Bracket Cover (Optional)
SYSPEND Sanitary HMI Enclosure
Fixed Coupling
L-Shaped Tubing
L-Shaped Tubing
Swivel Base Bracket
Fixed Base Bracket
Fixed Coupling
Swivel Coupling
Base Bracket Cover (Optional)
SYSPEND Sanitary HMI Enclosure
SYSPEND Sanitary HMI Enclosure
Fixed Coupling
Swivel Coupling
Straight Tubing
Base Bracket Cover (Optional)
Fixed Base Bracket
89047417

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SYSPEND HMI SANITARY ENCLOSURE, TYPE 4X

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
CSA File No. 42186; Type 4, 4X, 12
IEC 60529, IP66, IP69K

APPLICATION

Specifically designed to house process control equipment in sanitary washdown environments, particularly food and beverage manufacturing. The enclosure features many clean design elements and meets Type 4X and IP69K requirements for high-pressure, high-temperature washdown applications.

FEATURES

- Enclosure provides modern, flat-screen monitor-style aesthetics
- Integrated side handles allow for easy repositioning of enclosure
- Fully concealed gasket area provides complete protection in washdown environments
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits the placement of objects on the top of the enclosure
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Enclosure can be flipped for either pendant or pedestal mounting
- Hinges are shielded by door
- Suspension arm adapter provided with enclosure; provides means of attachment to the SYSPEND Sanitary Suspension System and SYSPEND VHDS-Motion Arm
- Suspension arm adapter can be installed backwards to provide 40-degree tilt for pedestal applications
- Internal support plate included with each enclosure provides extra rigidity for suspension mounting
- Flat area provided for installing optional H2OMIT Vent Drain to provide means of removing condensed moisture from the enclosure
- Optional adapter available for mounting enclosure to the SYSPEND VHDS-Motion arm

SPECIFICATIONS

- Constructed from 1.2-mm thick (18 gauge) Type 304 stainless steel
- Seams continuously welded and ground smooth
- One-piece, closed-cell silicone gasket
- Bonding provision on door; grounding stud on body
- Door secured with two stainless steel quarter-turn latches with flush slotted insert
- Panel studs on door fit optional NEMA-style panels
- Furnished hardware kit consists of illustrated instruction sheet, grounding hardware, internal support plate, suspension arm adapter and hardware for attaching the support plate and adapter

FINISH

External surfaces have a #3 brushed finish

MODIFICATION AND CUSTOMIZATION

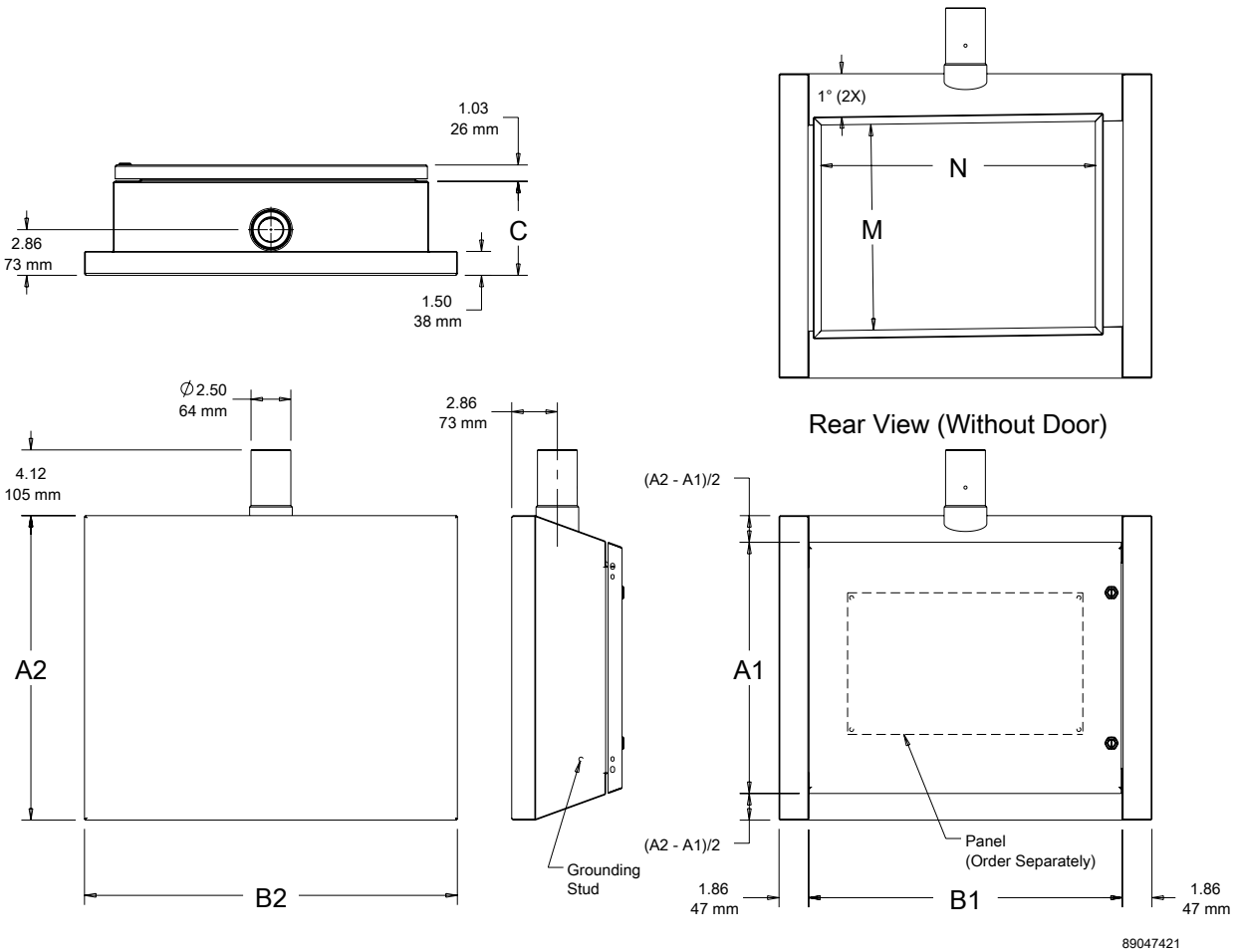
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: VM9

Standard Product

Catalog Number	AxBxC mm/in.	A1 mm/in.	B1 mm/in.	A2 mm/in.	B2 mm/in.	M x N mm/in.	Steel Panel	Product Weight (kg)	Product Weight (lb.)
S303015SS	300 x 300 x 150 11.81 x 11.81 x 5.91	300 11.81	300 11.81	385 15.17	394 15.53	228 x 238 8.97 x 9.35	A8P6	6.9	15.3
S304015SS	300 x 400 x 150 11.81 x 15.75 x 5.91	300 11.81	400 15.75	385 15.17	494 19.46	228 x 338 8.97 x 13.29	A10P8	8.0	17.7
S404015SS	400 x 400 x 150 15.75 x 15.75 x 5.91	400 15.75	400 15.75	485 19.11	494 19.46	328 x 337 12.92 x 13.26	A12P10	9.4	20.7
S405015SS	400 x 500 x 150 15.75 x 19.68 x 5.91	400 15.75	500 19.68	485 19.11	594 23.40	323 x 437 12.92 x 17.20	A16P10	10.7	23.6
S505015SS	500 x 500 x 150 19.68 x 19.68 x 5.91	500 19.68	500 19.68	585 23.04	585 23.40	428 x 48 16.87 x 17.25	A16P10	12.2	27.0
S506015SS	500 x 600 x 150 19.68 x 23.62 x 5.91	500 16.68	600 23.62	585 23.04	694 27.34	428 x 538 16.87 x 21.19	A18P16	13.7	30.2
S303020SS	300 x 300 x 200 11.81 x 11.81 x 7.87	300 11.81	300 11.81	421 16.59	394 15.53	233 x 237 9.15 x 9.33	A8P6	7.8	17.2
S304020SS	300 x 400 x 200 11.81 x 15.75 x 7.87	300 11.81	400 15.75	421 16.59	494 19.46	233 x 337 9.15 x 13.26	A10P8	9.0	19.9
S404020SS	400 x 400 x 200 15.75 x 15.75 x 7.87	400 15.75	400 15.75	521 20.52	494 19.46	332 x 338 13.09 x 13.29	A12P10	10.5	23.1
S405020SS	400 x 500 x 200 15.75 x 19.68 x 7.87	400 15.375	500 19.68	521 20.52	594 23.40	332 x 438 13.09 x 17.23	A16P10	11.9	26.2
S505020SS	500 x 500 x 200 19.68 x 19.68 x 7.87	500 19.68	500 19.68	621 24.46	594 23.40	432 x 438 17.01 x 17.23	A16P10	13.5	29.8
S506020SS	500 x 600 x 200 19.68 x 23.62 x 7.87	500 19.68	600 23.62	621 24.46	694 27.34	432 x 538 17.01 x 21.17	A18P16	15.1	33.3

Enclosure dimensions are based upon the rear door; non-usable space on front face provides required area for heat dissipation.



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SYSPEND ALUMINUM HMI ENCLOSURES, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA/EEMAC Type 12
IEC 60529; IP 65

APPLICATION

The SYSPEND Aluminum HMI enclosure is designed to accommodate modern touch-screen HMI devices and can be pendant- or pedestal-mounted. Extruded aluminum sides provide enhanced usability with internal mounting channels. The single-walled aluminum reduces the overall weight of the enclosure, eliminating strain during installation and use. The integrated side handles provide enhanced ergonomics. The SYSPEND Aluminum HMI enclosure's aesthetics are clean and modern and the life of the HMI system is extended due to increased heat dissipation.

FEATURES

- **Extruded, single-walled aluminum construction** for enhanced ergonomics and heat dissipation
- **Anodized and RAL 7035 sections**
- **Two body style options** for a variety of configurations
- **Integrated side handles** for clean appearance and ease of operation
- **Integrated mounting extrusions** for installing components or din rail directly inside the enclosure using brackets or spring nuts
- **Anodized aluminum front plate** installed into enclosure
- **Pre-cut mounting holes** compatible with support arm systems; pedestal mounting when enclosure is inverted

SPECIFICATIONS

- Extruded channels inside enclosure
- Seamless integrated handles
- Body is available hinged or solid with hinged back-plate
- Single-walled aluminum body
- Oil-resistant gasket attached with oil-resistant adhesive

FINISH

Enclosure vertical components are clear anodized aluminum; horizontal components are painted RAL 7035 light gray aluminum. Rear covers and front plates have a clear anodized aluminum finish.

BULLETIN: VMA

Standard Product **Hinged Back Plate**

Catalog Number	AxBxC mm/in.	X mm/in.	Y mm/in.	Z mm/in.	Weight (kg)	Weight (lb.)	Compatibility	Replacement Front Plate
SY222266A	336 x 350 x 80 13.23 x 13.78 x 3.15	225 8.86	225 8.86	66 2.60	5.27	11.62	COMPACT Series 2 Flange Coupling, SYSPEND 180-MAX*	SY2222AFP
SY273066A	386 x 425 x 80 15.20 x 16.73 x 3.15	275 10.83	300 11.81	66 2.60	6.84	15.08	COMPACT Series 2 Flange Coupling, SYSPEND 180-MAX*	SY2730AFP
SY322266A	436 x 350 x 80 17.17 x 13.78 x 3.15	325 12.80	225 8.86	66 2.60	6.30	13.89	COMPACT Series 2 Flange Coupling, SYSPEND 180-MAX*	SY3222AFP
SY323518A	436 x 475 x 200 17.17 x 18.70 x 7.87	325 12.80	350 13.78	186 7.32	13.27	29.26	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3235AFP
SY353718A	461 x 500 x 200 18.15 x 19.69 x 7.87	350 13.78	375 14.76	186 7.32	14.29	31.50	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3537AFP
SY405018A	511 x 625 x 200 20.12 x 24.61 x 7.87	400 15.75	500 19.69	186 7.32	18.03	39.75	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY4050AFP
SY455218A	561 x 650 x 200 22.09 x 25.59 x 7.87	450 17.72	525 20.67	186 7.32	19.78	43.61	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY4552AFP
SY605018A	711 x 625 x 200 27.99 x 24.61 x 7.87	600 23.62	500 19.69	186 7.32	22.76	50.18	Compact Series 4, System 80 **	SY6050AFP
SY505018A	611 x 625 x 200 24.06 x 24.61 x 7.87	500 19.69	500 19.69	186 7.32	20.39	44.95	Compact Series 4, System 80 **	SY5050AFP

XxYxZ dimensions refer to usable space (height x width x depth)

All enclosures come with front plates installed.

* Can be used with an adapter to accommodate the SYSPEND 180-MAX.

** Includes strengthening for pendant arm system due to dimensions.

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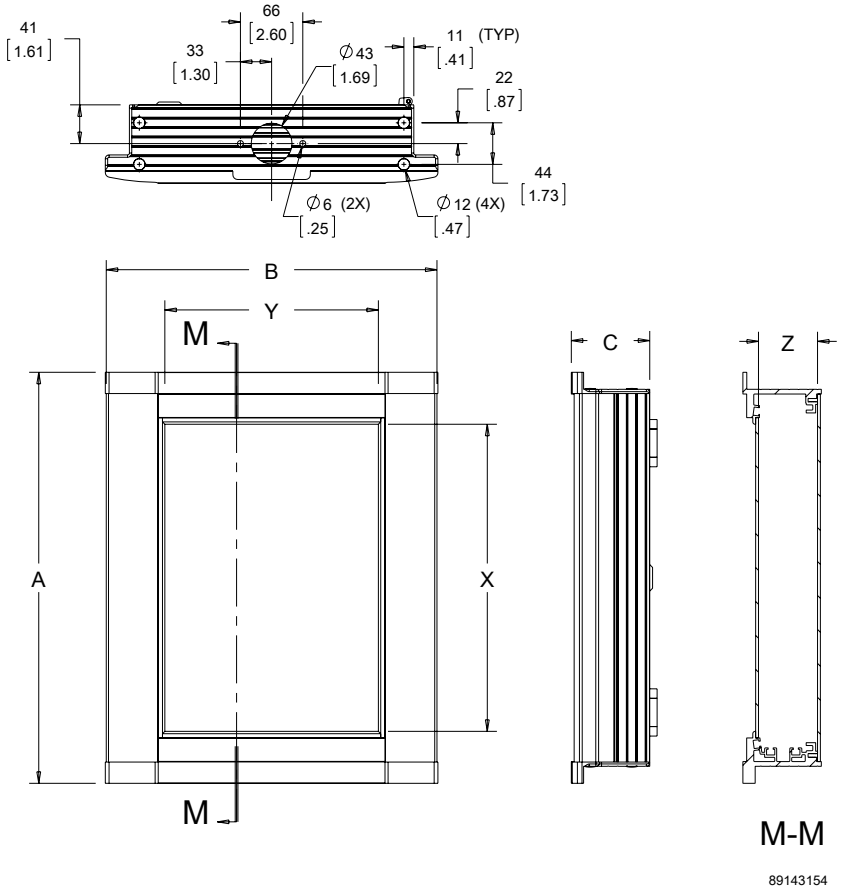
Standard Product **Hinged Door**

Catalog Number	AxBxC mm/in.	X mm/in.	Y mm/in.	Z mm/in.	Weight (kg)	Weight (lbs.)	Compatibility	Replacement Front Plate
SY252516A	361 x 375 x 180 14.21 x 14.76 x 7.09	250 9.84	250 9.84	166 6.54	9.63	21.23	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY2525AFP
SY323716A	436 x 500 x 180 17.17 x 19.69 x 7.09	325 12.80	375 14.76	166 6.54	13.52	29.81	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3237AFP
SY374216A	486 x 550 x 180 19.13 x 21.65 x 7.09	375 14.76	425 16.73	166 6.54	15.61	34.41	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3742AFP
SY303016A	411 x 425 x 180 16.18 x 16.73 x 7.09	300 11.81	300 11.81	166 6.54	11.50	25.35	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3030AFP
SY322516A	436 x 375 x 180 17.17 x 14.76 x 7.09	325 12.80	250 9.84	166 6.54	10.90	24.03	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3225AFP
SY353516A	461 x 475 x 180 18.15 x 18.70 x 7.09	350 13.78	350 13.78	166 6.54	13.47	29.70	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3535AFP
SY354516A	461 x 575 x 180 18.15 x 22.64 x 7.09	350 13.78	450 17.72	166 6.54	15.62	34.44	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3545AFP
SY404016A	511 x 525 x 180 20.12 x 20.67 x 7.09	400 15.75	400 15.75	166 6.54	15.57	34.33	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY4040AFP
SY454716A	561 x 600 x 180 22.09 x 23.62 x 7.09	450 17.72	475 18.70	166 6.54	18.36	40.48	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY4547AFP
SY505216A	611 x 650 x 180 24.06 x 25.59 x 7.09	500 19.69	525 20.67	166 6.54	20.71	45.66	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY5052AFP
SY353726A	461 x 500 x 280 18.15 x 19.69 x 11.02	350 13.78	375 14.76	266 10.47	18.48	40.74	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY3537AFP
SY405026A	511 x 625 x 280 20.12 x 24.61 x 11.02	400 15.75	500 19.69	266 10.47	23.19	51.13	Compact Series 2, SYSPEND 180-MAX, SYSPEND 281-MAX	SY4050AFP
SY605026A	711 x 625 x 280 27.99 x 24.61 x 11.02	600 23.62	500 19.69	266 10.47	28.74	63.36	Compact Series 4, System 80 **	SY6050AFP
SY505026A	611 x 625 x 280 24.06 x 24.61 x 11.02	500 19.69	500 19.69	266 10.47	25.97	57.25	Compact Series 4, System 80 **	SY5050AFP

XxYxZ dimensions refer to usable space (height x width x depth)

All enclosures come with front plates installed.

** Includes strengthening for pendant arm system due to dimensions.



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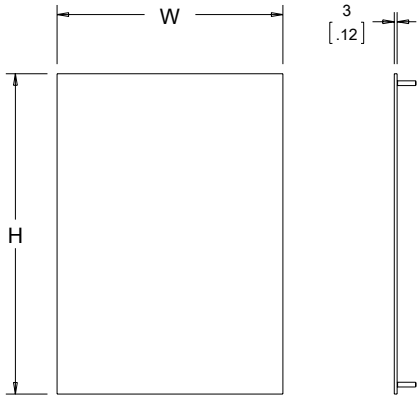
REPLACEMENT FRONT PLATE



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Front plates are 14 gauge aluminum with clear anodized brushed finish. Mounting hardware included.

BULLETIN: VMY

Standard Product

Catalog Number	AxB mm/in.	Fits Enclosure H x W mm	H mm/in.	W mm/in.	Weight (kg)	Weight (lb.)
SY2222AFP	239 x 239 9.41 x 9.41	225 x 225	239 9041	239 9.41	.59	1.30
SY2730AFP	389 x 314 11.38 x 12.36	275 x 300	389 11.38	314 12.36	.86	1.90
SY3222AFP	339 x 239 13.35 x 9.41	325 x 225	339 13.35	239 9.41	.78	1.72
SY3235AFP	339 x 364 13.35 x 14.33	325 x 350	339 13.35	364 14.33	1.12	2.47
SY3537AFP	364 x 389 14.33 x 15.32	350 x 375	364 14.33	389 15.32	1.27	2.80
SY4050AFP	414 x 514 16.30 x 20.24	400 x 500	414 16.30	514 20.24	1.85	4.08
SY4552AFP	464 x 539 18.27 x 21.22	450 x 525	464 18.27	539 21.22	2.15	4.74
SY6050AFP	614 x 514 24.17 x 20.24	600 x 500	614 24.17	514 20.24	2.68	5.91
SY5050AFP	514 x 514 20.24 x 20.24	500 x 500	514 20.24	514 20.24	2.26	4.99
SY2525AFP	264 x 264 10.39 x 10.39	250 x 250	264 10.39	264 10.39	.69	1.52
SY3237AFP	339 x 389 13.35 x 15.32	325 x 375	339 13.35	389 15.32	1.19	2.63
SY3742AFP	389 x 439 15.32 x 17.28	375 x 425	389 15.32	439 17.28	1.51	3.32
SY3030AFP	314 x 314 12.36 x 12.36	300 x 300	314 12.36	314 12.36	.92	2.04
SY3225AFP	339 x 264 13.35 x 10.39	325 x 250	339 13.35	264 10.39	.85	1.87
SY3535AFP	364 x 364 14.33 x 14.33	350 x 350	364 14.33	364 14.33	1.20	2.64
SY3545AFP	364 x 464 14.33 x 18.27	350 x 450	364 14.33	464 18.27	1.49	3.29
SY4040AFP	414 x 414 16.30 x 16.30	400 x 400	414 16.30	414 16.30	1.51	3.34
SY4547AFP	464 x 489 18.27 x 19.25	450 x 475	464 18.27	489 19.25	1.96	4.33
SY5052AFP	514 x 539 20.24 x 21.22	500 x 525	514 20.24	239 21.22	2.37	5.22

STEEL MOUNTING BRACKETS

Steel mounting brackets for installing components or DIN rails directly inside the enclosure.

BULLETIN: VMY

Catalog Number	Description
SYMBRK	Aluminum HMI Mounting Brackets

STEEL SPRING NUTS

No drilling required when using steel spring nuts to mount into enclosure. Package includes (10) M5 spring nuts.

BULLETIN: VMY

Catalog Number	Description
SYSPN	Aluminum HMI Spring Nuts

REPLACEMENT GROUNDING KIT

Grounding kit includes spring nuts for installation into mounting extrusions.

BULLETIN: VMY

Catalog Number	Description
SYAGK	Replacement Grounding Kit

REPLACEMENT KEY

Metallic 3-mm double-bit key.

BULLETIN: VMY

Standard Product

Catalog Number	Description
SYARK	Replacement Key

SYSPEND USB PORT

The interface allows access to programmable components installed inside the enclosure without opening the door. It can also be used as a keyboard or mouse connection.

BULLETIN: CC3

Catalog Number	Description
CCUSB	USB Data Port

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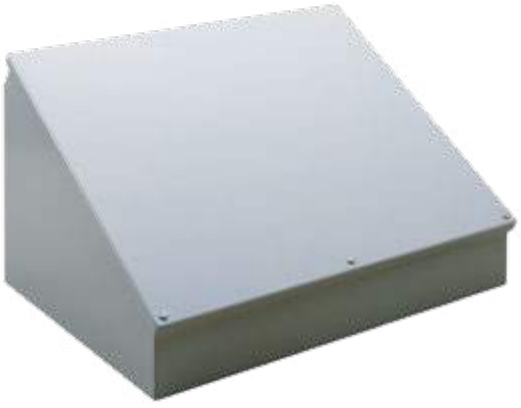
MILD STEEL CONSOLETS



APPLICATION

Consolets are ideal for mounting small control or instrumentation devices where the desirable access requires a 30- or 60-degree surface. These enclosures can be mounted on either of two sides for placement on desktops, pedestals or other flat surfaces.

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth; no holes or knockouts
- Captivated cover screws thread into sealed wells
- Bonding provision on cover
- Oil-resistant gasket and adhesive
- Control panel attached with continuous hinge along bottom edge

FINISH

ANSI 61 gray polyester powder paint inside and out over pretreated surfaces.

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12, 13
CSA File Number 42186: Type 12
IEC 60529, IP65

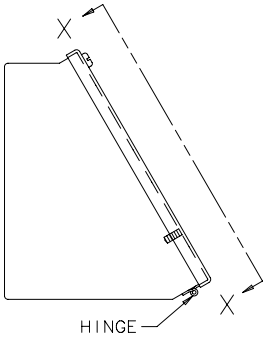
ACCESSORIES

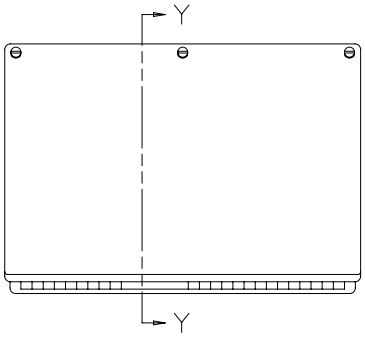
Industrial Corrosion Inhibitors, page 1378
HOL-SEALERS Hole Seals, page 1374
Latch Kits for Type 4 and 12 Enclosures, page 1369
Mounting Bracket Kits (DMFK), page 1402
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

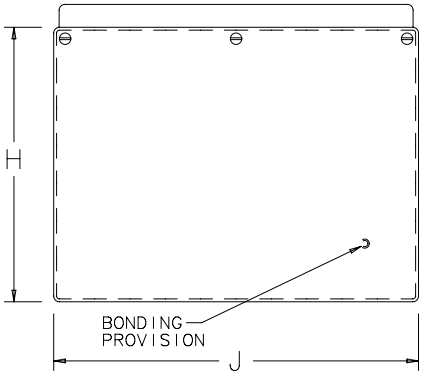
BULLETIN: C5, P1

Standard Product **Consolets**

Catalog Number	AxBxC in./mm	E in./mm	H in./mm	J in./mm	K in./mm	L in./mm	N in./mm
C8C8	8.00 x 8.00 x 7.09 203 x 203 x 180	5.62 143	8.28 210	8.28 210	7.50 191	6.62 168	7.44 189
C8C12	8.00 x 12.00 x 7.09 203 x 305 x 180	5.62 143	8.28 210	12.28 312	11.50 292	6.62 168	7.44 189
C8C16	8.00 x 16.00 x 7.09 203 x 406 x 180	5.62 143	8.28 210	16.28 414	15.50 394	6.62 168	7.44 189
C8C20	8.00 x 20.00 x 7.09 203 x 508 x 180	5.62 143	8.28 210	20.28 515	19.50 495	6.62 168	7.44 189
C12C12	12.00 x 12.00 x 9.09 305 x 305 x 231	7.62 194	12.28 312	12.28 312	11.50 292	10.62 270	10.91 277
C12C16	12.00 x 16.00 x 9.09 305 x 406 x 231	7.62 194	12.28 312	16.28 414	15.50 394	10.62 270	10.91 277
C12C20	12.00 x 20.00 x 9.09 305 x 508 x 231	7.62 194	12.28 312	20.28 515	19.50 495	10.62 270	10.91 277
C12C24	12.00 x 24.00 x 9.09 305 x 610 x 231	7.62 194	12.28 312	24.28 617	23.50 597	10.62 270	10.91 277
C16C16	16.00 x 16.00 x 11.09 406 x 406 x 282	9.62 244	16.28 414	16.28 414	15.50 394	14.62 371	14.38 365
C16C20	16.00 x 20.00 x 11.09 406 x 508 x 282	9.62 244	16.28 414	20.28 515	19.50 495	14.62 371	14.38 365
C16C24	16.00 x 24.00 x 11.09 406 x 610 x 282	9.62 244	16.28 414	24.28 617	23.50 597	14.62 371	14.38 365
C16C30	16.00 x 30.00 x 11.09 406 x 762 x 282	9.62 244	16.28 414	30.28 769	29.50 749	14.62 371	14.38 365
C16C36	16.00 x 36.00 x 11.09 406 x 914 x 282	9.62 244	16.28 414	36.28 922	35.50 902	14.62 371	14.38 365
C20C20	20.00 x 20.00 x 13.09 508 x 508 x 332	11.62 295	20.28 515	20.28 515	18.62 473	18.62 473	17.84 453
C20C24	20.00 x 24.00 x 13.09 508 x 610 x 332	11.62 295	20.28 515	24.28 617	22.62 575	18.62 473	17.84 453
C20C30	20.00 x 30.00 x 13.09 508 x 762 x 332	11.62 295	20.28 515	30.28 769	28.62 727	18.62 473	17.84 453







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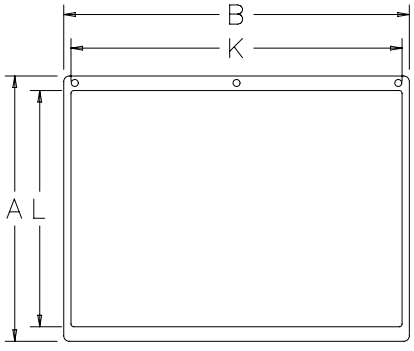
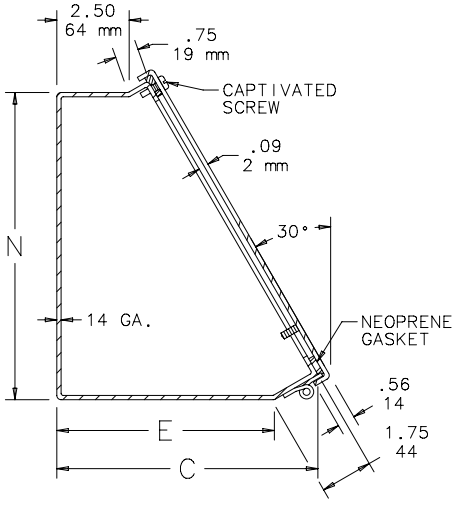


VIEW X–X
with cover removed



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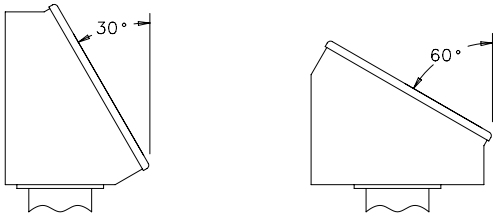

C2760-C

Standard Product **Pedestal Columns and Bases for Consolets**

Catalog Number	AxBxC in./mm	Description
A44CCOL	35.00 x 4.00 x 4.00 889 x 102 x 102	Straight Pedestal Column
A66CCOL	35.00 x 6.00 x 6.00 889 x 152 x 152	Straight Pedestal Column
A18SBASE	18.00 x 18.00 457 x 457	Pedestal Base
A24SBASE	24.00 x 24.00 610 x 610	Pedestal Base

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STAINLESS STEEL CONSOLETS, TYPE 12

APPLICATION

Consolets are ideal for mounting small control or instrumentation devices where the desirable access requires a 30- or 60-degree surface. These enclosures can be mounted on either of two sides for placement on desktops, pedestals or other flat surfaces.

SPECIFICATIONS

- Type 304 stainless steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Cover attached with continuous hinge
- Oil-resistant gasket
- Bonding provision on door

FINISH

Cover and sides of body have smooth #4 brushed finish.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346
Stainless Steel Pedestal, page 747
HOL-SEALERS Hole Seals, page 1374

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: C5S

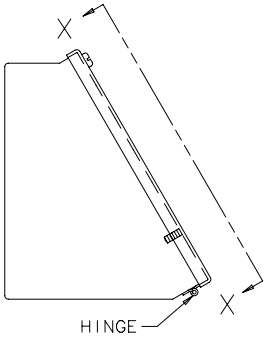
INDUSTRY STANDARDS

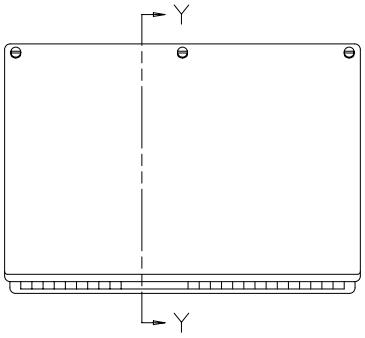
UL 508A Listed; Type 12, 13; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 12, 13; File Number E61997

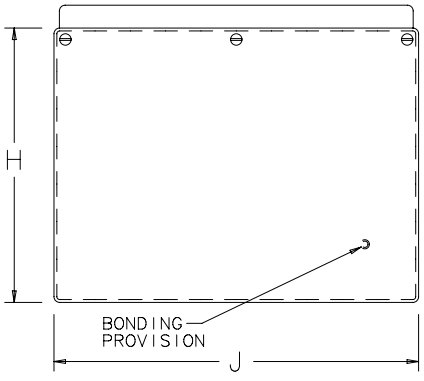
NEMA/EEMAC Type 12
CSA File Number 42186: Type 12
IEC 60529, IP65

Standard Product

Catalog Number	AxBxC in./mm	E in./mm	H in./mm	J in./mm	K in./mm	L in./mm	N in./mm
C8C8SS	8.00 x 8.00 x 7.09	5.62	8.28	8.28	7.50	6.62	7.44
	203 x 203 x 180	143	210	210	191	168	189
C8C12SS	8.00 x 12.00 x 7.09	5.62	8.28	12.28	11.50	6.62	7.44
	203 x 305 x 180	143	210	312	292	168	189
C8C16SS	8.00 x 16.00 x 7.09	5.62	8.28	16.28	15.50	6.62	7.44
	203 x 406 x 180	143	210	414	394	168	189
C8C20SS	8.00 x 20.00 x 7.09	5.62	8.28	20.28	19.50	6.62	7.44
	203 x 508 x 180	143	210	515	495	168	189
C12C12SS	12.00 x 12.00 x 9.09	7.62	12.28	12.28	11.50	10.62	10.91
	305 x 305 x 231	194	312	312	292	270	277
C12C16SS	12.00 x 16.00 x 9.09	7.62	12.28	16.28	15.50	10.62	10.91
	305 x 406 x 231	194	312	414	394	270	277
C12C20SS	12.00 x 20.00 x 9.09	7.62	12.28	20.28	19.50	10.62	10.91
	305 x 508 x 231	194	312	515	495	270	277
C12C24SS	12.00 x 24.00 x 9.09	7.62	12.28	24.28	23.50	10.62	10.91
	305 x 610 x 231	194	312	617	597	270	277
C16C16SS	16.00 x 16.00 x 11.09	9.62	16.28	16.28	15.50	14.62	14.38
	406 x 406 x 282	244	414	414	394	371	365
C16C20SS	16.00 x 20.00 x 11.09	9.62	16.28	20.28	19.50	14.62	14.38
	406 x 508 x 282	244	414	515	495	371	365
C16C24SS	16.00 x 24.00 x 11.09	9.62	16.28	24.28	23.50	14.62	14.38
	406 x 610 x 282	244	414	617	597	371	365
C16C30SS	16.00 x 30.00 x 11.09	9.62	16.28	30.28	29.50	14.62	14.38
	406 x 762 x 282	244	414	769	749	371	365
C16C36SS	16.00 x 36.00 x 11.09	9.62	16.28	36.28	35.50	14.62	14.38
	406 x 914 x 282	244	414	922	902	371	365
C20C20SS	20.00 x 20.00 x 13.09	11.62	20.28	20.28	18.62	18.62	17.84
	508 x 508 x 332	295	515	515	473	473	453
C20C24SS	20.00 x 24.00 x 13.09	11.62	20.28	24.28	22.62	18.62	17.84
	508 x 610 x 332	295	515	617	575	473	453
C20C30SS	20.00 x 30.00 x 13.09	11.62	20.28	30.28	28.62	18.62	17.84
	508 x 762 x 332	295	515	769	727	473	453







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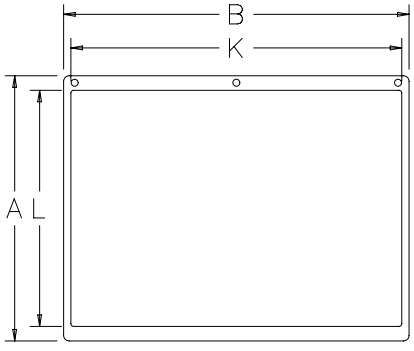

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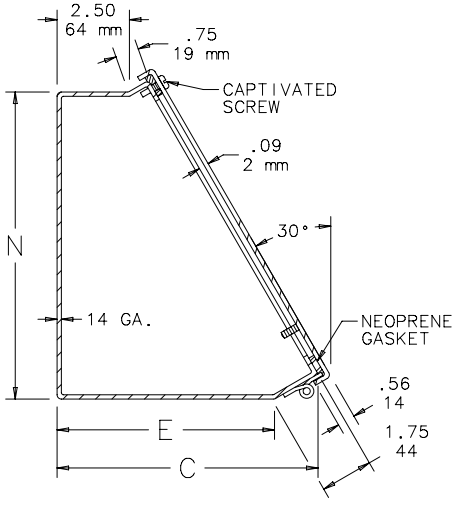
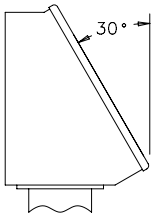
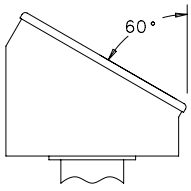


SECTION Y–Y





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CONCEPT CONSOLE, TYPE 4X

APPLICATION

Sloped CONCEPT Consoles provide a convenient surface for mounting and monitoring components. Ergonomically designed so users can sit or stand while working, consoles feature a large internal capacity for mounting components and controls.

SPECIFICATIONS

- 14 gauge Type 304 stainless steel
- Ergonomically designed for sitting or standing operation
- Solid bottom
- Corner-formed doors
- External-formed 90-degree body flange
- 20-degree sloped-top cover for 38.00-in. (965-mm) tall console or 30-degree top cover for 48.00-in. (1219-mm) console
- Quarter-turn stainless steel latches hold top cover securely closed
- Door props hold top cover open at 90-degrees
- Integral water-shedding trough
- Collar studs for optional back panel
- Optional side panels (mounted to collar studs) expand equipment mounting space
- Tool-to-open 3-point latch on front access door; door is removable and reversible; 170-degree full-access opening
- Seamless foam-in-place gasket
- Bonding provision on door; grounding stud on body
- Provision for data pocket on lower front door
- Easy-to-remove clip-style hinge pins

FINISH

Doors and body have smooth #4 brushed finish.

ACCESSORIES

Caster Kit, page 619
Side Panels, page 619

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: C1S

INDUSTRY STANDARDS

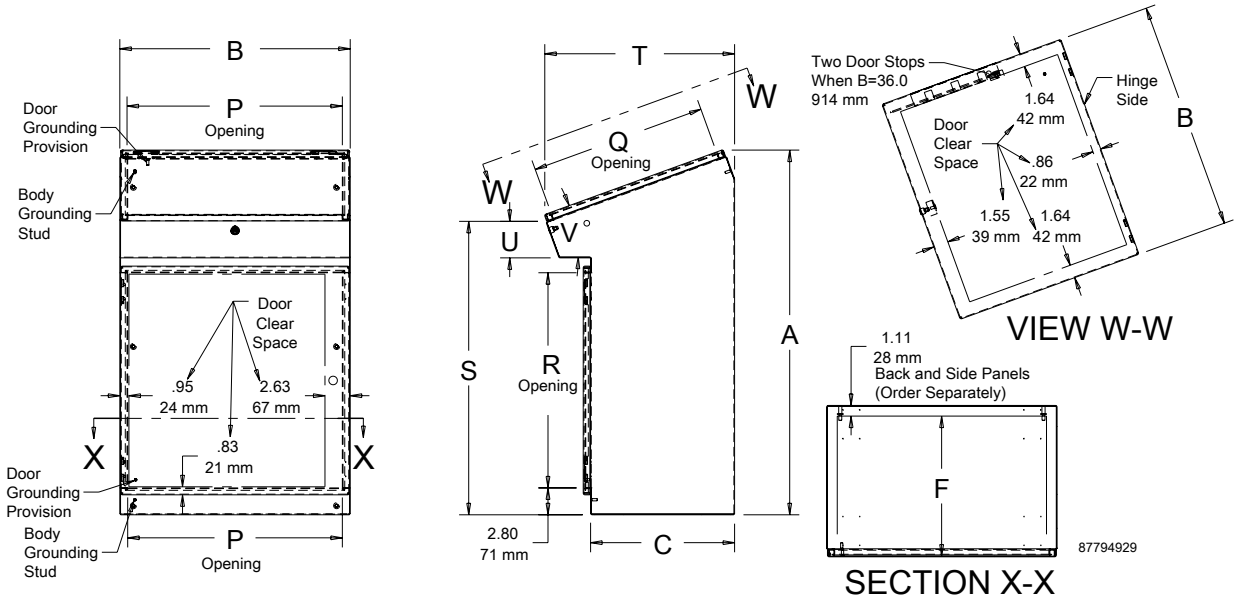
UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA Type 3R, 4, 4X, 12, 13
CSA File No. 42186: Type 4, 4X, 12
Meets NEMA Type 3RX requirements

Standard Product

Catalog Number	AxBxC in./mm	Back Panel	Conductive Panel	Back Panel Height x Width in./mm	F in./mm	P in./mm	Q in./mm	R in./mm	S in./mm	T in./mm	U in./mm	V	W in./mm	Data Pocket
CFC382416SS	38.00 x 24.00 x 15.00 965 x 610 x 381	CP3624	CP3624G	34.20 x 22.20 869 x 564	14.57 370	22.40 569	18.40 467	22.37 568	30.44 773	19.82 503	3.79 96	20°	20.00 508	Small
CFC383616SS	38.00 x 36.00 x 15.00 965 x 914 x 381	CP3636	CP3636G	34.20 x 34.20 869 x 869	14.57 370	34.40 874	18.40 467	22.37 568	30.44 773	19.82 503	3.79 96	20°	20.00 508	Large
CFC482423SS	48.00 x 24.00 x 18.00 1219 x 610 x 457	CP2442	CP2442G	40.20 x 22.20 1021 x 564	17.57 446	22.40 569	23.36 593	28.35 720	35.35 898	23.84 606	2.54 64	30°	24.00 610	Large
CFC483623SS	48.00 x 36.00 x 18.00 1219 x 914 x 457	CP4236	CP4236G	40.20 x 34.20 1021 x 869	17.57 446	34.40 874	23.36 593	28.35 720	35.35 898	23.84 606	2.54 64	30°	24.00 610	Large

Order Back Panel and Data Pocket separately.



CASTER KIT

Order two swivel caster kits or one swivel caster kit plus one stationary caster kit.
Height = 3.72 in. (94 mm)
Wheel diameter = 3.00 in. (76 mm)
Load rating each = 210 lb. (95 kg)

BULLETIN: C1

Catalog Number	Description
AC4M6ST	Caster kit, stationary (2 casters per kit)
AC4M6SV	Caster lit, swivel (2 casters per kit)
CCPK18	Caster plate kit, 18 in., (2 plates per kit)

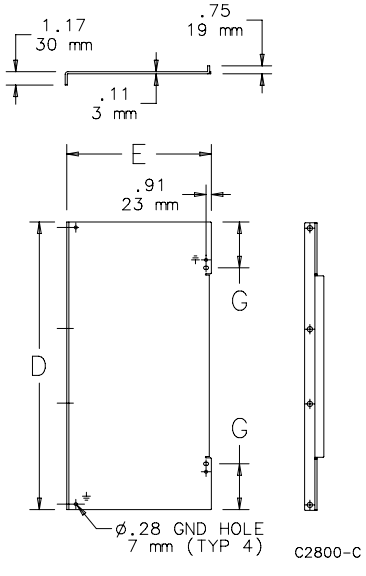
Order two swivel caster kits or one swivel caster kit plus one stationary caster kit.

SIDE PANELS

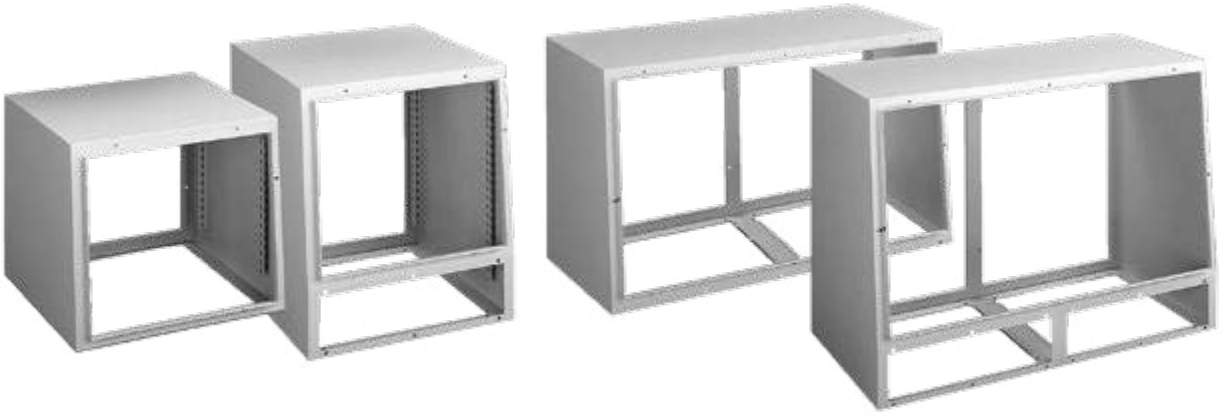
One panel per kit. Two kits required if a panel is needed on each side.

BULLETIN: C1

Catalog Number	D in./mm	E in./mm	G in./mm
CPC3816	27.15 690	13.65 347	4.33 110
CPC4823	31.57 802	16.65 423	3.54 40



PROLINE SLOPED-FRONT HMI, TYPE 4, 4X, 12



INDUSTRY STANDARDS

Painted versions:

UL 508A Listed; Type 12: File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12: File No. E61997

NEMA/EEMAC Type 12
IEC 60529, IP55

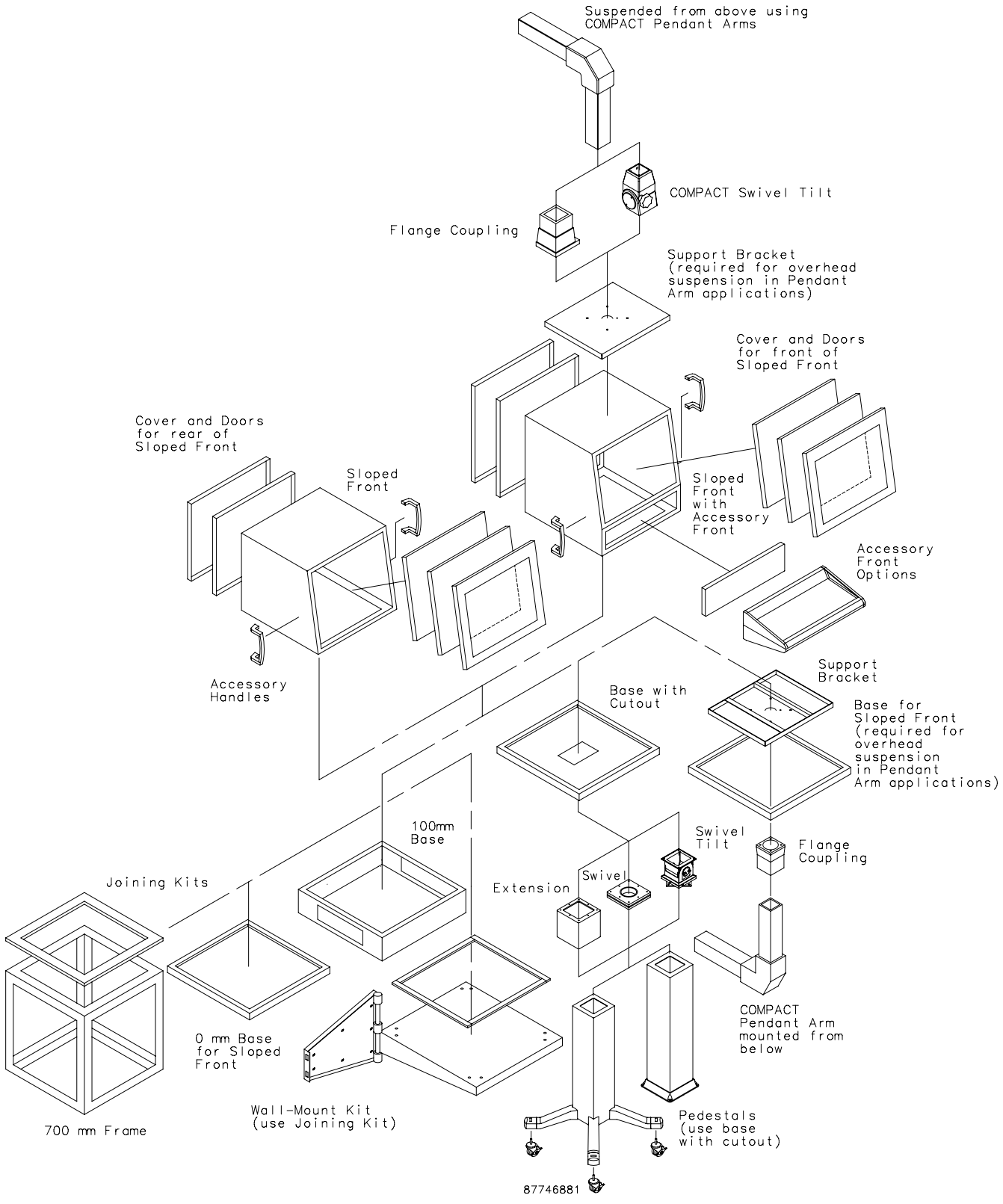
Stainless steel versions:

UL 508A Listed; Type 4, 4X, 12: File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12: File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

A truly modular, build-your-own system for CRT monitors and keyboards, the PROLINE Sloped-Front HMI System's foundation is extremely adaptable for nearly any application. Add one or more of the many possible fronts, backs, mounting options, doors and bases to the core frame to build an enclosure that meets your design specifications.

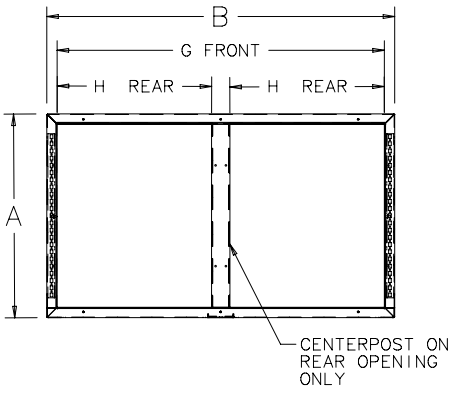

Suspended from above using COMPACT Pendant Arms
COMPACT Swivel Tilt
Flange Coupling
Support Bracket (required for overhead suspension in Pendant Arm applications)
Cover and Doors for front of Sloped Front
Cover and Doors for rear of Sloped Front
Sloped Front
Sloped Front with Accessory Front
Accessory Front Options
Accessory Handles
Base with Cutout
Support Bracket
Base for Sloped Front (required for overhead suspension in Pendant Arm applications)
100mm Base
Swivel Tilt
Flange Coupling
Joining Kits
Extension
Swivel
COMPACT Pendant Arm mounted from below
0 mm Base for Sloped Front
Wall-Mount Kit (use Joining Kit)
700 mm Frame
Pedestals (use base with cutout)
87746881

SLOPED FRONT

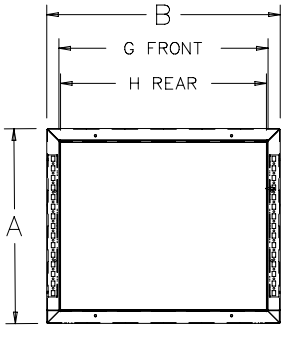
Enclosure is available in three heights—400, 500 and 700 mm. Full-front opening for door/cover options has a 5-degree slope. Rear opening(s) for door and cover options. Optional PROLINE Frame Shelf or PROLINE Grid System is recommended to provide a stationary platform for supporting deep equipment. The open bottom is suitable for joining the top to a 700-mm-tall PROLINE frame. The bottom of the 600 x 600-mm sizes can be joined through a cutout base to a pedestal or pendant arm system. A support bracket accessory allows the 600 x 600-mm sizes to be suspended from an overhanging pendant arm. Sloped-front enclosures are Type 304 stainless steel or 14 gauge steel with a RAL 7035 light-gray textured polyester powder paint finish.

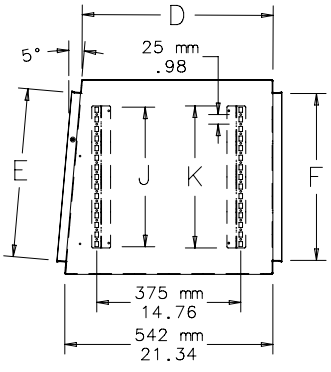
BULLETIN: P9, P9S

Catalog Number	AxBxC mm/in.	D mm/in.	Description	Nominal Size A x B x C mm/in.	Front Opening E x G mm/in.	Rear Opening F x H mm/in.	Internal Mounting J mm/in.	Internal Mounting K mm/in.	Product Weight (lb.)
PST466	400 x 600 x 600 15.75 x 23.62 x 23.62	507 19.96	Steel	400 x 600 x 600	339 x 536 13.36 x 21.11	336 x 564 13.21 x 21.11	225 8.86	225 8.86	44.0
PST566	500 x 600 x 600 19.69 x 23.62 x 23.62	498 19.61	Steel	500 x 600 x 600	440 x 536 17.31 x 21.11	435 x 536 17.13 x 21.11	325 12.80	325 12.80	46.7
PST766	700 x 600 x 600 27.56 x 23.62 x 23.62	481 18.92	Steel	700 x 600 x 600	641 x 536 25.22 x 21.11	636 x 536 25.02 x 21.11	525 20.67	525 20.67	59.9
PST766SS	707 x 608 27.85 x 23.94	481 18.92	Stainless Steel	700 x 600 x 600	641 x 536 25.22 x 21.11	636 x 536 25.02 x 21.11	525 20.67	525 20.67	68.0
PST786	700 x 800 x 600 27.56 x 31.50 x 23.62	481 18.92	Steel	700 x 800 x 600	640 x 736 25.22 x 28.98	636 x 736 25.02 x 28.98	525 20.67	525 20.67	66.0
PST7126	700 x 1200 x 600 27.56 x 47.24 x 23.62	481 18.92	Steel	700 x 1200 x 600	641 x 1136 25.22 x 44.73	636 x 536 25.02 x 21.11	525 20.67	525 20.67	82.0



1200 mm wide





800 mm wide

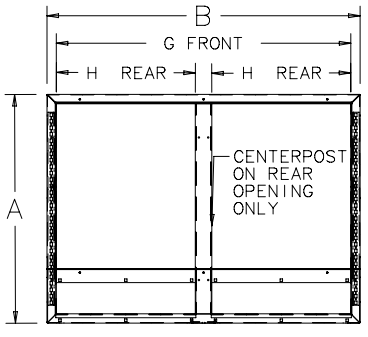
87746882

SLOPED FRONT WITH ACCESSORY OPENING

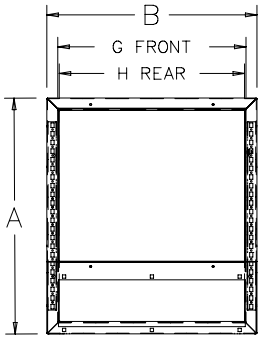
Enclosure is available in two heights: 500 mm and 700 mm. Upper front opening for door/cover options has a 5-degree slope. Lower section is suitable for keyboard or other front options. Rear opening(s) for door and cover options. The internal mounting hole pattern accommodates most PROLINE internal accessories. Optional PROLINE Frame Shelf or PROLINE Grid System provides a stationary platform for supporting deep equipment. The open bottom is suitable for joining the top to a 700-mm PROLINE frame. The bottom of the 600 x 600-mm sizes can be joined through a cutout base to a pedestal or pendant arm system. A support bracket accessory allows the 600 x 600-mm size to be suspended from an overhanging pendant arm. Sloped fronts with accessory opening are Type 304 stainless steel or 14 gauge steel with RAL 7035 textured light-gray polyester powder paint finish.

BULLETIN: P9

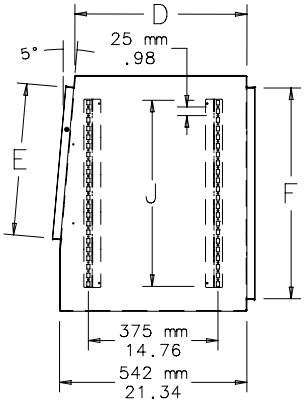
Catalog Number	AxBxC mm/in.	D mm/in.	Description	Nominal Size A x B x C mm/in.	Front Opening E x G mm/in.	Rear Opening F x H mm/in.	Internal Mounting J mm/in.	Internal Mounting K mm/in.	Product Weight (lb.)
PST5A66	500 x 600 x 600 19.69 x 23.62 x 23.62	498 19.61	Steel	500A x 600 x 600	440 x 536 17.31 x 21.11	611 x 536 24.04 x 21.11	500 19.69	500 19.69	59.0
PST5A86	500 x 800 x 600 19.69 x 31.50 x 23.62	498 19.61	Steel	500A x 800 x 600	440 x 736 17.31 x 28.98	611 x 736 24.04 x 28.98	500 19.69	500 19.69	64.0
PST5A126	500 x 1200 x 600 19.69 x 47.24 x 23.62	498 19.61	Steel	500A x 1200 x 600	440 x 1136 17.31 x 44.73	611 x 536 24.04 x 21.11	500 19.69	500 19.69	86.0
PST7A66	700 x 600 x 600 27.56 x 23.62 x 23.62	481 18.92	Steel	700A x 600 x 600	641 x 536 25.22 x 21.11	811 x 536 31.91 x 21.11	700 27.56	700 27.56	70.0
PST7A86	700 x 800 x 600 27.56 x 31.50 x 23.62	481 18.92	Steel	700A x 800 x 600	641 x 736 25.22 x 28.98	811 x 736 31.91 x 28.98	700 27.56	700 27.56	73.0
PST7A126	700 x 1200 x 600 27.56 x 47.24 x 23.62	481 18.92	Steel	700A x 1200 x 600	641 x 1136 25.22 x 44.73	811 x 536 31.91 x 21.11	700 27.56	700 27.56	111.0



1200 mm wide Sloped Top with Accessory Front

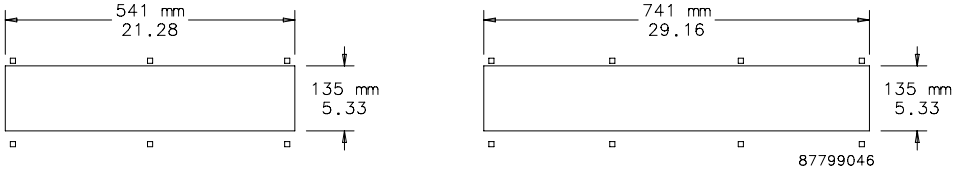


600 mm wide Sloped Top with Accessory Front



87799045

Accessory Front Opening Dimensions



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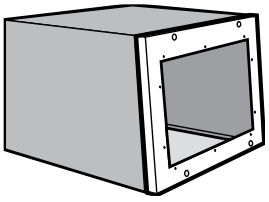
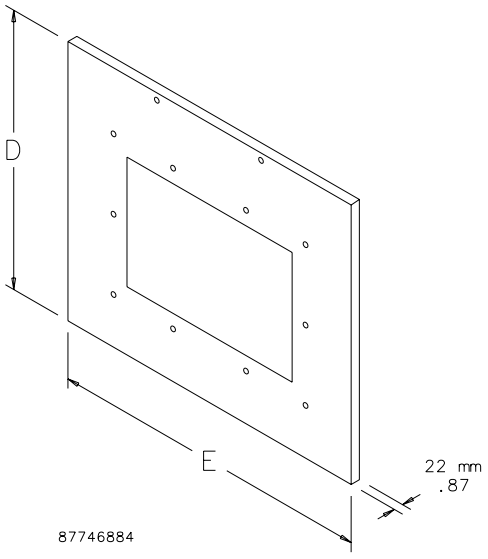
COVERS WITH HMI CUTOUT FOR UPPER FRONT OF SLOPED FRONTS



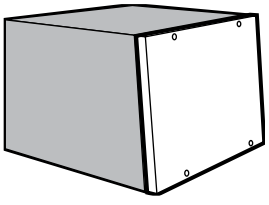
Covers with HMI cutouts are secured to the front opening of a PROLINE Sloped Front with semi-flush cover screws along the top and bottom cover edges. Use PROLINE Frame Shelf or PROLINE Grid Straps and Plates to support human-machine interface. Ground stud and mounting hardware are included. Seamless foam-in-place gasket assures a watertight and dust-tight seal. 16 gauge steel cover finish is RAL 7035 textured light-gray polyester powder paint. Optional tamper-resistant cover screws are available. *Hoffman can provide preconfigured covers to meet your specific requirements. Contact your local Hoffman sales office or distributor for more information.*

BULLETIN: P9



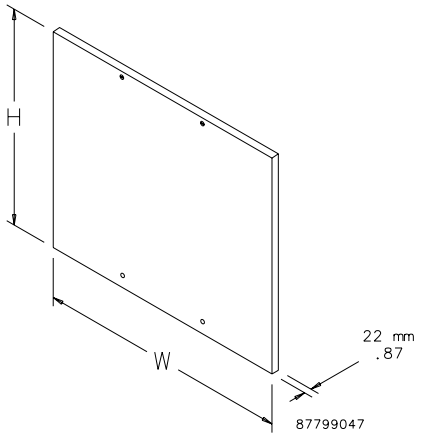
Catalog Number	Manufacturer	Model for Manufacturer	Approx. HMI Weight (lb.)	Approx. HMI Weight (kg)	D x E mm/in.	Fits Sloped front	Product Weight (lb.)
PCSK56F6	Allen-Bradley	PanelView 1200e/1400e Keypad	46	20.9	504 x 592 19.86 x 23.30	500 x 600 and 500A x 600	13.0

COVERS FOR UPPER FRONT OF SLOPED FRONTS



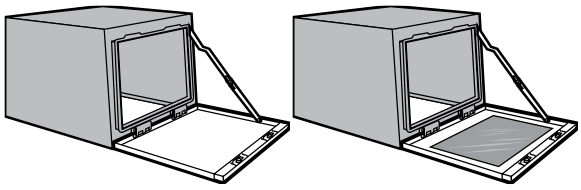
Solid 16 gauge steel covers are secured to the front opening of a PROLINE Sloped Front with semi-flush cover screws along the top and bottom cover edges. Ground stud and mounting hardware are included. Seamless foam-in-place gasket assures a watertight and dust-tight seal. Covers are Type 304 stainless steel or 16 gauge steel with a RAL 7035 light-gray textured polyester powder paint finish. Optional tamper-resistant cover screws are available.

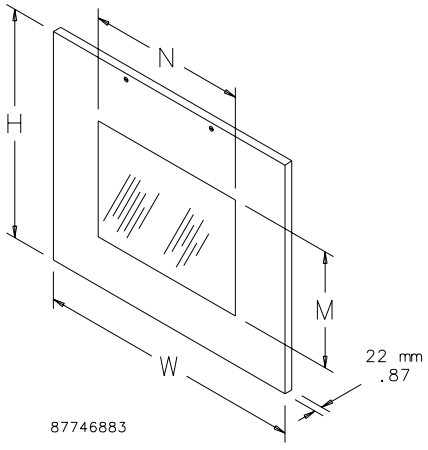
BULLETIN: P9, P9S



Catalog Number	Description	Cover Size H x W (mm)	Cover Size H x W (in.)	Product Weight (lb.)
PCS46F	Steel	406 x 592	15.98 x 23.30	13.0
PCS56F	Steel	506 x 592	19.93 x 23.30	14.0
PCS58F	Steel	506 x 792	19.93 x 31.17	17.0
PCS58FSS	Stainless Steel	506 x 792	19.93 x 31.17	23.0
PCS512F	Steel	507 x 1192	19.93 x 46.92	25.0
PCS76F	Steel	707 x 592	27.84 x 23.30	15.5
PCS76FSS	Stainless Steel	707 x 592	27.84 x 23.30	19.5
PCS78F	Steel	707 x 792	27.84 x 31.17	20.5
PCS712F	Steel	707 x 1192	27.84 x 46.92	30.0

DOORS FOR UPPER FRONT OF PROLINE SLOPED FRONTS





Solid 16 gauge steel doors are available with or without windows. Doors are hinged at lower edge and have quarter-turn latches. A stop arm assembly holds the door at 95 degrees (horizontal) from its closed position. Standard latch and insert options are available. Ground stud and mounting hardware are included. Seamless polyurethane foam-in-place gasket assures watertight and dust-tight seal.
Window doors feature a maximum size .25-in.-thick polycarbonate window with a smoke-gray tint. Window is field-replaceable. Finish is RAL 7035 textured light-gray polyester powder paint or Type 304 stainless steel.

BULLETIN: P9, P9S

Solid Doors for Upper Front

Catalog Number	Description	Door Size H x W (mm)	Door Size H x W (in.)	Product Weight (lb.)
PDS46F	Steel	404 x 592	15.91 x 23.30	14.0
PDS56F	Steel	504 x 592	19.86 x 23.30	15.0
PDS56FSS	Stainless Steel	504 x 592	19.86 x 23.30	21.5
PDS58F	Steel	504 x 792	19.86 x 31.17	18.0
PDS58FSS	Stainless Steel	504 x 792	19.86 x 31.17	24.0
PDS512F	Steel	504 x 1192	19.86 x 46.92	26.0
PDS76F	Steel	705 x 592	27.77 x 23.30	16.5
PDS76FSS	Stainless Steel	705 x 592	27.77 x 23.30	20.5
PDS78F	Steel	705 x 792	27.77 x 31.17	21.5
PDS712F	Steel	705 x 1192	27.77 x 46.92	31.0

Window Doors for Upper Front

Catalog Number	Description	Door Size H x W (mm)	Door Size H x W (in.)	Window Size M x N (mm)	Window Size M x N (in.)	Product Weight (lb.)
PDW46F	Steel	404 x 592	15.91 x 23.30	254 x 432	10.00 x 17.00	14.0
PDW56F	Steel	504 x 592	19.86 x 23.30	362 x 432	14.25 x 17.00	15.0
PDW56W16	Steel	504 x 592	19.86 x 23.30	254 x 318	10.00 x 12.50	15.0
PDW58F	Steel	504 x 792	19.86 x 31.17	362 x 635	14.25 x 25.00	18.0
PDW58FSS	Stainless Steel	504 x 792	19.86 x 31.17	362 x 635	14.25 x 25.00	24.0
PDW76F	Steel	705 x 592	27.77 x 23.30	559 x 432	22.00 x 17.00	16.5
PDW76W21	Steel	705 x 592	27.77 x 23.30	330 x 432	13.00 x 17.00	16.5

UPPER FRONT DOOR ACCESSORIES

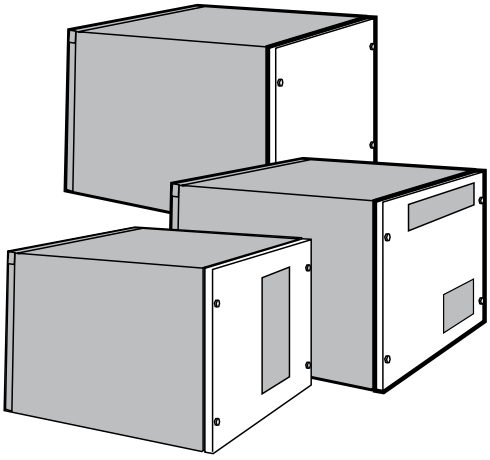
These accessories provide a variety of latch configurations for PROLINE sloped front doors.

BULLETIN: A54Y, P9

Catalog Number	Description
LLKSM7	7-mm-square key insert
LLKSM8	8-mm-square key insert
LLKDBM3	Double-bit key insert with 3mm pin
LLKDB	Daimler Benz key insert
LLKSS	Slotted key insert
LLKWK	One wing knob latch and two keys
PSTLO	One flush key lock and two keys

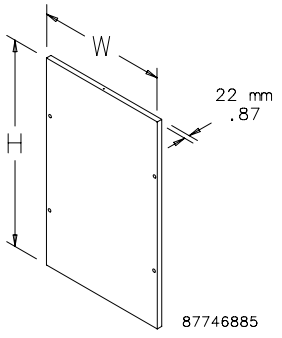
nVent | HOFFMAN

COVERS FOR REAR OF SLOPED FRONTS



Use PROLINE Frame Shelf or PROLINE Grid Straps to support the operator interface. Seamless foam-in-place gasket assures watertight and dust-tight seal. Ground stud and mounting hardware are included. Optional tamper-resistant screws are available. Covers are Type 304 stainless steel or 16 gauge steel finished with RAL 7035 textured light-gray polyester powder paint.

BULLETIN: P9, P9S



Cover fits rear opening of PROLINE Sloped Fronts and is secured with semi-flush cover screws along right and left cover edges.

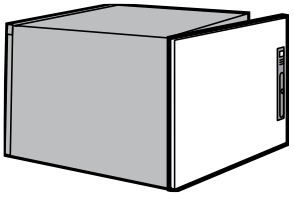
Solid Covers

Catalog Number	Description	Cover Size H x W (mm)	Cover Size H x W (in.)	Product Weight (lb.)
PCS46R	Steel	405 x 596	15.96 x 23.47	13.0
PCS56R	Steel	506 x 596	19.92 x 23.47	14.0
PCS76R	Steel	596 x 706	23.47 x 27.79	17.0
PCS76RSS	Stainless steel	596 x 706	23.47 x 27.79	23.0
PCS78R	Steel	706 x 796	27.79 x 31.35	20.5
PCS5A6R	Steel	679 x 597	26.75 x 23.51	15.0
PCS5A6RSS	Stainless steel	679 x 597	26.75 x 23.51	21.0
PCS5A8R	Steel	679 x 796	26.75 x 31.35	19.0
PCS7A6R	Steel	879 x 596	34.62 x 23.47	18.0
PCS7A8R	Steel	879 x 796	34.62 x 31.35	24.0

Covers with Cutouts for Hoffman Side Mount 13 Series Air Conditioner

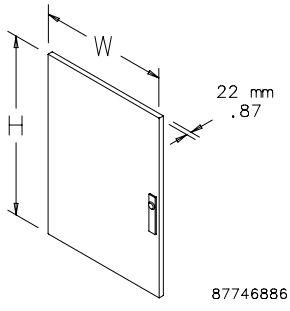
Catalog Number	Description	Cover Size H x W (mm)	Cover Size H x W (in.)	Product Weight (lb.)
PCSK7A6ACR	Steel	879 x 596	34.62 x 23.47	18.0

DOORS FOR REAR OF PROLINE SLOPED TOPS



Rear doors are side-hinged. The hinges are hidden and provide 130-degree door swing. Optional PROLINE 180-Degree Hinge Kit is available (see PROLINE Solid Rear Door Accessories in this section). Doors can be hinged from left or right. Door includes two-point latching with a flush slotted quarter-turn insert. Standard PROLINE handle and insert options are available for retrofit (see PROLINE Solid Rear Door Accessories in this section). Use PROLINE Frame Shelf or PROLINE Grid Straps to support the operator interface. Ground stud and mounting hardware are included. Seamless foam-in-place gasket assures a watertight and dust-tight seal. Covers are Type 304 stainless steel or 16 gauge steel finished with RAL 7035 textured light-gray polyester powder paint.

BULLETIN: P9, P9S



Catalog Number	Description	Door Size H x W (mm)	Door Size H x W (in.)	Product Weight (lb.)
PDS46R	Steel	405 x 592	15.96 x 23.30	10.0
PDS56R	Steel	506 x 592	19.91 x 23.30	12.0
PDS76STR	Steel	706 x 592	27.79 x 23.30	15.0
PDS76RSS	Stainless Steel	706 x 592	27.79 x 23.30	19.5
PDS78STR	Steel	706 x 792	27.79 x 31.17	19.5
PDS5A6R	Steel	679 x 592	26.75 x 23.30	14.5
PDS5A8R	Steel	679 x 792	26.75 x 31.17	19.0
PDS7A6R	Steel	879 x 592	34.62 x 23.30	18.0
PDS7A8R	Steel	879 x 792	34.62 x 31.17	24.0

SOLID REAR DOOR ACCESSORIES

Accessories listed here are designed for use with PROLINE Sloped Front Rear Doors.

See PROLINE Accessories in the Modular Enclosure Systems chapter.

BULLETIN: A80DP, P20

Key Inserts

Catalog Number	Description
PK0TM7	7-mm triangle
PK0TM8	8-mm triangle
PK0TM65	CNOMO
PK0SM7	7-mm square
PK0SM8	8-mm square
PK0DBK3	Double-bit with 3mm pin

Flush Handle

Catalog Number	Description
PSHKBL	One handle and two keys

Data Pockets

Catalog Number	Description
ADP1	Small data pocket
ADP2	Large data pocket

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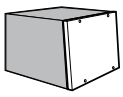
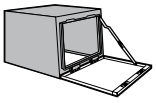
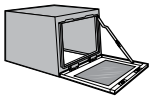
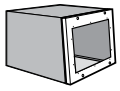
PROLINE SLOPED-FRONT HMI ENCLOSURE SYSTEM SELECTION MATRIX: FRONT AND REAR OPTIONS

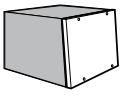
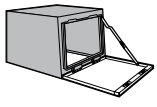
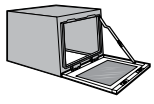
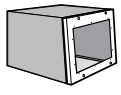
SELECTION MATRIX: FRONT OPTIONS

FRONT OPTIONS

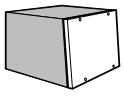
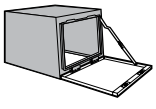
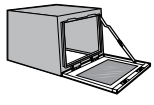
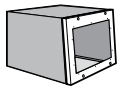
SLOPED FRONT A	B	C	SOLID COVER (STEEL)	SOLID COVER (STAINLESS STEEL)	SOLID DOOR (STEEL)	SOLID COVER (STAINLESS STEEL)	WINDOW DOOR (STEEL)	WINDOW DOOR (STAINLESS STEEL)	COVER WITH HMI CUTOUT
400	600	600	PCS46F		PDS46F		PDW46F		
500	600	600	PCS56F	PCS56FSS	PDS56F	PDS56FSS	PDW56F OR PDW56W16	PDW56FSS	PCSK56F6
700	600	600	PCS76F	PCS76FSS	PDS76F	PDS76FSS	PDW76F OR PDW76W21	PDW76FSS	PCSK76F6
700	800	600	PCS78F		PDS78F				

FRONT OPTIONS

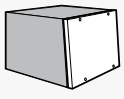
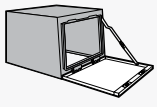
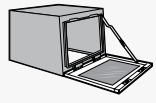
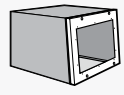
1200-MM SLOPED FRONT A	B	C	SOLID COVER (STEEL)	SOLID COVER (STAINLESS STEEL)	SOLID DOOR (STEEL)	SOLID COVER (STAINLESS STEEL)	WINDOW DOOR (STEEL)	WINDOW DOOR (STAINLESS STEEL)	COVER WITH HMI CUTOUT
700	1200	600	PCS712F		PDS712F				

FRONT OPTIONS

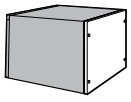
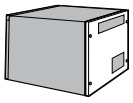
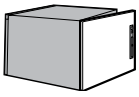
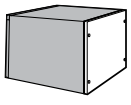
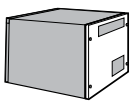
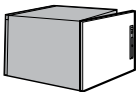
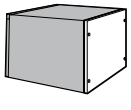
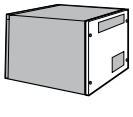
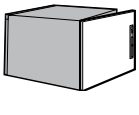
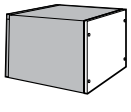
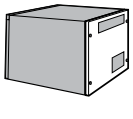
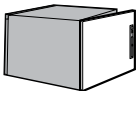
SLOPED FRONT WITH ACCY. FRONT OPENING A	B	C	SOLID COVER (STEEL)	SOLID COVER (STAINLESS STEEL)	SOLID DOOR (STEEL)	SOLID COVER (STAINLESS STEEL)	WINDOW DOOR (STEEL)	WINDOW DOOR (STAINLESS STEEL)	COVER WITH HMI CUTOUT
500A	600	600	PCS56F	PCS56FSS	PDS56F	PDS56FSS	PDW56F OR PDW56W16	PDW56FSS	
500A	800	600	PCS58F	PCS58FSS	PDS58F	PDS58FSS	PDWS58F	PDW58FSS	PCSK56F6
700A	600	600	PCS76F	PCS76FSS	PDS76F	PDS76FSS	PDW76F OR PDW76W21	PDW76FSS	PCSK76F6
700A	800	600	PCS78F		PDS78F				

FRONT OPTIONS

1200-MM SLOPED FRONT WITH ACCY. FRONT OPENING A	B	C	SOLID COVER (STEEL)	SOLID COVER (STAINLESS STEEL)	SOLID DOOR (STEEL)	SOLID COVER (STAINLESS STEEL)	WINDOW DOOR (STEEL)	WINDOW DOOR (STAINLESS STEEL)	COVER WITH HMI CUTOUT
500A	1200	600	PCS512F		PDS512F				
700A	1200	600	PCS712F		PDS712F				

SELECTION MATRIX: REAR OPTIONS

REAR OPTIONS 							
SOLID COVER (STEEL)	**SOLID COVER (STAINLESS STEEL)**	**COVER WITH AIR CONDITIONER CUTOUT [a]**	**DOOR WITH SIDE HINGE (STEEL)**	**DOOR WITH SIDE HINGE (STAINLESS STEEL)**	**SLOPED FRONT A**	**B**	**C**
PCS46R			PDS46R[b]		400	600	600
PCS56R			PDS56R[b]		500	600	600
PCS76R	PCS76RSS	PCSK7A6ACR	PDS76STR[b]	PDS76RSS[b]	700	600	600
PCS78R			PDS78STR[b]		700	800	600
REAR OPTIONS 							
SOLID COVER (STEEL)	**SOLID COVER (STAINLESS STEEL)**	**COVER WITH AIR CONDITIONER CUTOUT [a]**	**DOOR WITH SIDE HINGE (STEEL)**	**DOOR WITH SIDE HINGE (STAINLESS STEEL)**	**1200-MM SLOPED FRONT A**	**B**	**C**
PCS76R	PCS76RSS	PCSK7A6ACR	PDS76STR[b]	PDS76RSS[b]	700	1200	600
REAR OPTIONS 							
SOLID COVER (STEEL)	**SOLID COVER (STAINLESS STEEL)**	**COVER WITH AIR CONDITIONER CUTOUT [a]**	**DOOR WITH SIDE HINGE (STEEL)**	**DOOR WITH SIDE HINGE (STAINLESS STEEL)**	**SLOPED FRONT WITH ACCY. FRONT OPENING A**	**B**	**C**
PCS5A6R	PCS5A6RSS		PDS5A6R[b]	PDS5A6RSS[b]	500A	600	600
PCS5A8R			PDS5A8R[b]		500A	800	600
PCS7A6R	PCS7A6RSS	PCSK7A6ACR	PDS7A6R[b]	PDS7A6RSS[b]	700A	600	600
PCS7A8R			PDS7A8R[b]		700A	800	600
REAR OPTIONS 							
SOLID COVER (STEEL)	**SOLID COVER (STAINLESS STEEL)**	**COVER WITH AIR CONDITIONER CUTOUT [a]**	**DOOR WITH SIDE HINGE (STEEL)**	**DOOR WITH SIDE HINGE (STAINLESS STEEL)**	**1200-MM SLOPED FRONT WITH ACCY. FRONT OPENING A**	**B**	**C**
PCS5A6R	PCS5A6RSS		PDS5A6R[b]	PDS5A6RSS[b]	500A	1200	600
PCS7A6R	PCS7A6RSS	PCSK7A6ACR	PDS7A6R[b]	PDS7A6RSS[b]	700A	1200	600

[a] For Hoffman Side-Mount 13 Series air conditioners.

[b] Door hinged on side. Two-point latching with slotted insert. Other handle options are available. See Accessories for Sloped Front HMI Enclosures in this section.

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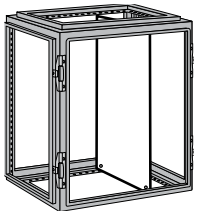
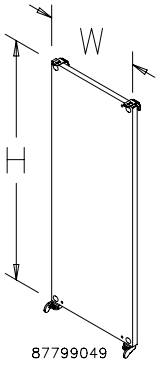
FULL SUBPANELS



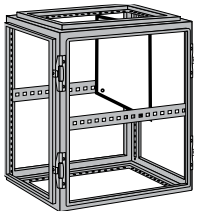
Subpanels are 12 gauge steel, have flanges on all sides and are painted white (conductive panels are plated). They can be mounted in PROLINE frame bases and HMI sloped fronts at any depth in 25-mm increments using optional grid straps. All mounting hardware is included.

BULLETIN: P20



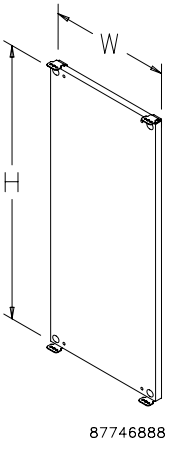
Catalog Number	Conductive Panel	H (mm)	H (in.)	W (mm)	W (in.)	Fits
PPF76	PPF76G	585	23.03	530	20.87	500A x 600 and 700 x 600
PPF78	PPF78G	585	23.03	730	28.74	500A x 800 and 700 x 800
PPF712	—	585	23.03	1130	44.49	500A x 1200 and 700 x 1200

PARTIAL SUBPANELS



Partial Subpanels are 12 gauge steel, have flanges on all sides and are painted white (conductive panels are plated). They can be positioned vertically in .88-in. increments and can also be positioned in PROLINE frame bases and HMI sloped fronts at 25-mm increments using optional grid straps. All mounting hardware is included.

BULLETIN: P20



Catalog Number	Conductive Panel	H (mm)	H (in.)	W (mm)	W (in.)	Fits
PPP46	PPP46G	360	14.17	530	20.87	All 600-mm-wide HMIs
PPP48	PPP48G	360	14.17	730	28.74	All 800-mm-wide HMIs
PPP412	PPP412G	360	14.17	1130	44.49	All 1200-mm-wide HMIs

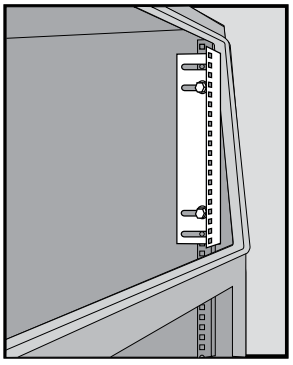
PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

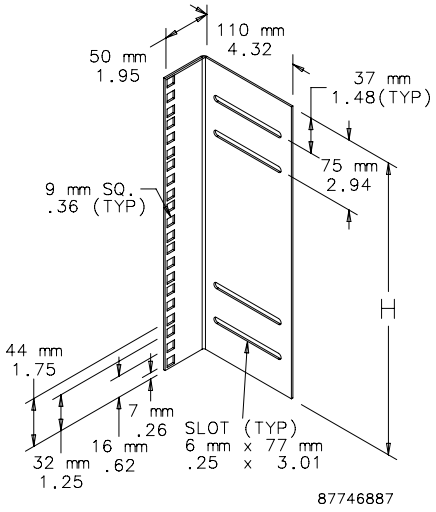
Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

RACK ANGLES FOR SLOPED FRONTS



Symmetrical Rack Angles have through-holes in mounting surfaces for mounting rack equipment. Angles are 14 gauge plated steel. Rack Angles with through-holes accommodate either English or metric cage nuts. Rack Angles are furnished in pairs and comply with ANSI/EIA RS310 rack mounting standards.

BULLETIN: P9



Catalog Number	Units	H (mm)	H (in.)	Description	Product Weight (lb.)
PRA5TH	5	223	8.77	General Purpose Short Section	2.5
PRA7TH	7	312	12.27	Fits Front a back of 400-mm-high HMI	3.5
PRA9TH	9	401	15.77	Fits front of 500/500A and back of 700/500A	4.5
PRA13TH	13	578	22.77	Fits front of 500/500A and back of 700/500A	6.5
PRA17TH	17	756	29.77	Fits back of 700A	8.0

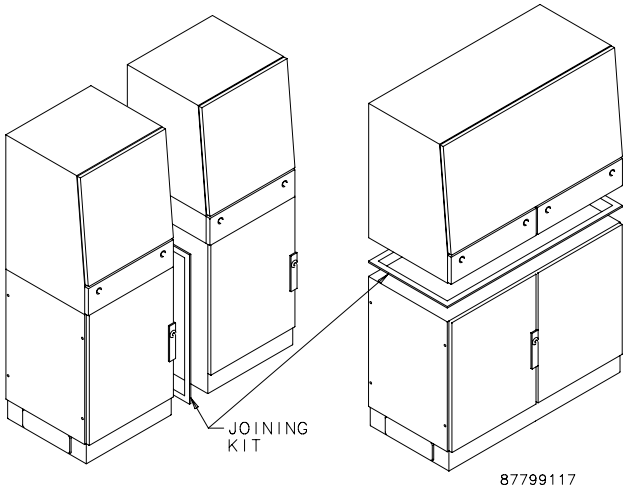
One unit = 1.75 inches (44.4mm).

JOINING KITS

Joining Kits permit joining two 700-mm frames while maintaining an environmental seal. Joining Kit for Side-to-Side Applications (PJ2FW7) fits on either side of the frame.
Top-to-frame Joining Kits permit joining two 700-mm frames while maintaining an environmental seal. Joining Kit for Side-to-Side Applications (PJ2FW7) fits on either side of the frame, allowing sloped fronts to be attached to 700-mm PROLINE frames or to wall-mount kit. Kits available for one sloped front and one frame or one 1200-mm wide sloped front on two joined frames. Kits include gasket and mounting hardware.

BULLETIN: P9

Catalog Number	Description
PJ2FW7	Joins frames side-to-side under HMI Sloped fronts
PJSTF6	Joins HMI sloped front to 600 x 600-mm frame
PJSTF8	Joins HMI sloped front to 800 x 600-mm frame
PJSTF12	Joins HMI sloped front to 1200 x 600-mm frame



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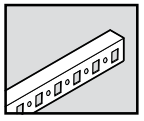
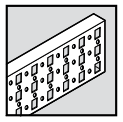
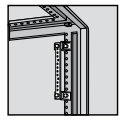
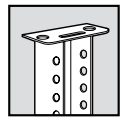
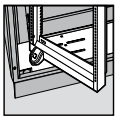
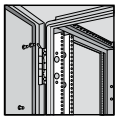
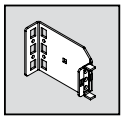
PROLINE SLOPED-FRONT HMI ENCLOSURE SYSTEM SELECTION MATRIX: INTERNAL COMPONENTS

INTERNAL COMPONENTS FOR SLOPED-FRONT FRAME BASE

	FULL SUBPANEL (See Modular Enclosures)			PARTIAL SUBPANEL (See Modular Enclosures)			SWING-OUT PANEL KIT (See Modular Enclosures)		 GRID STRAP ONE ROW (See Modular Enclosures)				 GRID STRAP THREE ROW (See Modular Enclosures)				 GROUNDING BAR SYSTEM (See Modular Enclosures)		 CENTER UPRIGHT (See Modular Enclosures)
Sloped Front Frame Bases	PDF76 / PPF76G	PDF78 / PPF78G	PDF712 / PPF712G	PDP46 / PPP46G	PDP468/ PPP48G	PDP4612/ PPP412G	PSP76	PSP78	PGH1S6	PGH1S7	PGH1S9	PGH1S13	PGH3S6	PGH3S7	PGH3S9	PGH3S12	PGS2K	PGS4K	PCU7
PF766	•			•			•		•	•			•	•			•	•	
PF786		•			•			•	•		•		•		•		•	•	
PF7126			•			•			•			•	•			•	•	•	•

INTERNAL COMPONENTS FOR SLOPED-FRONT FRAME BASE

							
SWING-OUT RACK FRAME (See Modular Enclosures)		**RACK ANGLES (See Modular Enclosures)**		**FRAME SHELF (See Modular Enclosures)**		**FRAME REDUCING BRACKETS (See Modular Enclosures)**	
PSF76	PSF78	PRA197TH / TP	PRA247TH / TP	PFSH66	PFSH86	PRB50	**SLOPED FRONT FRAME BASES**
•				•			PF766
•	•	•	•		•	•	PF786
•							PF7126

ACCESSORIES FOR SWING-OUT RACK FRAME INCLUDE:	
Guides	PSFG
Rack Panels	A19RP____(23 models)
Screw Package	AS1032 or PSM5
Clip Nut Packages	AN1032 or PSM5

ACCESSORIES FOR RACK ANGLES INCLUDE:	
Drawers	A19DR2U and A19DR4U
Drawer Writing Surface	A19WSDR
Guides	PSFG, AG1U5 and AG1U6
Slides	A16SL2U
Fixed Shelf	A19SH5 and A19SH6
Pull-Out Shelf	A19SHP6
Rack Panels	A19RP____ (23 models)
Screw Packages	AS1032 or PSM5
Clip Nut Packages	AN1032 or PNM5

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ACCESSORY FRONT OPTIONS

A variety of keyboard compartments and shelves, control compartments and writing surfaces is available in steel finished with RAL 7035 light-gray polyester powder paint or Type 304 stainless steel. Each one is designed to fit into the accessory front opening of the PROLINE HMI Sloped Front. An access cover is available for applications not requiring a keyboard or controls. An integrated elastomer keyboard/mouse combination is available on some models of the keyboard shelf accessory. The keyboard has 101 keys. Supplied cables are compatible with USB connections. *See Modular Enclosure Systems chapter for keyboard accessory dimensions.*

BULLETIN: P20, P20PC

Access Covers

Catalog Number	Description	Fits	Product Weight (lb.)
PCS6	Steel	600	7.3
PCS8	Steel	800	7.9

Consolet Compartments

Catalog Number	Description	Fits	Product Weight (lb.)
PCC6	Steel	600	30.0
PCC8	Steel	800	35.0

PCDS6SS - See previous table for information on this compartment.

20-Degree Control Compartments

Catalog Number	Description	Fits	Product Weight (lb.)
PC20A6	Steel	600	21.0
PC20A8	Steel	800	26.0

Keyboard Compartments

Catalog Number	Description	Fits	Product Weight (lb.)
PKBC6R	Steel	600	42.0
PKBC8R	Steel	800	48.0

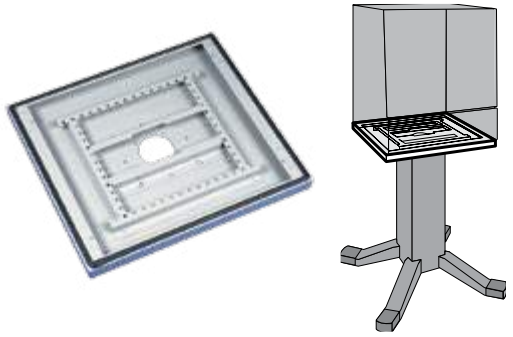
Keyboard Shelves

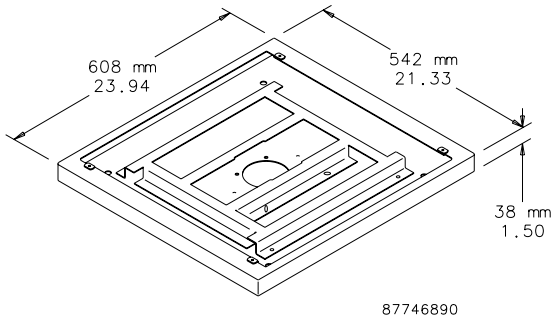
Catalog Number	Description	Fits	Product Weight (lb.)
PKBS6	Steel	600	20.0
PKBS8	Steel	800	24.0

Keyboard Shelves with Integrated Keyboard/Mouse

Catalog Number	Description	Fits	Product Weight (lb.)
PEKBMC6	Steel with keyboard	600	21.0

BASE WITH CUTOUT FOR SLOPED FRONT



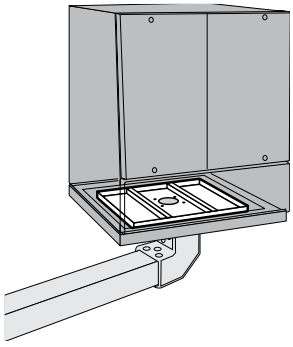


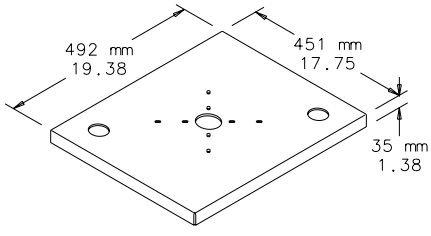
Closes off open bottom of sloped-front enclosures. Also fits COMPACT Series 4 Pendant Arm Flange Coupling Systems 80 and 80/140. The 14 gauge steel base has a stiffener framework attached to the inside and mounting holes that provide a rigid mounting means for 8.00 x 8.00-in. pedestal, pedestal extension, swivel tilt or angle adapter. Base has foam-in-place gasket and RAL 7035 textured light-gray polyester powder paint finish. Mounting hardware is furnished.

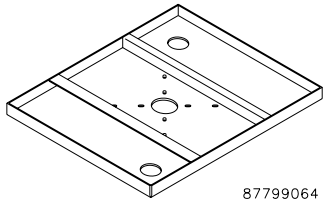
BULLETIN: P9, P9S

Catalog Number	Description
PBSK66	Steel
PBSK66SS	Stainless Steel

SUPPORT BRACKET







A Support Bracket is required when suspending a 600-mm wide sloped-front enclosure from above. The rigid bracket mounts inside the enclosure to stiffen its top. Bracket has prepunched holes to fit COMPACT Pendant Arm Series 4 Systems 50, 60 and 80 flange couplings as well as swivel tilts. Bracket is used as a template to drill holes in sloped front. Bracket is .125-inch-thick aluminum and is furnished with mounting bolts and seals. A support bracket can also be used inside a base for Series 4 System 50, 60 and 80 sloped fronts when mounting from below.

BULLETIN: P9

Catalog Number	Description
PTS66	Support Bracket

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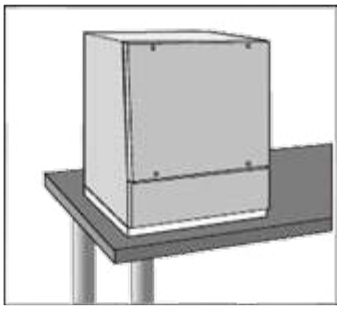
BASES FOR SLOPED FRONT

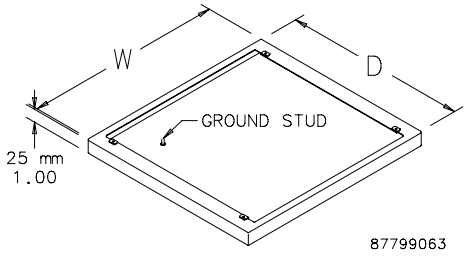


Closes off open bottom of sloped-front enclosures that are table-top mounted or suspended from overhead. Base is 14 gauge steel and has a ground stud provided. Foam-in-place gasket assures a water-tight and dust-tight seal. Steel bases are finished with RAL 7035 textured light-gray polyester powder paint. A top support bracket can be installed inside a 600-mm wide base for reinforcement when a COMPACT Pendant Arm Series 4 System 50, 60 or 80 is attached from below.

BULLETIN: P20, P20S, P9

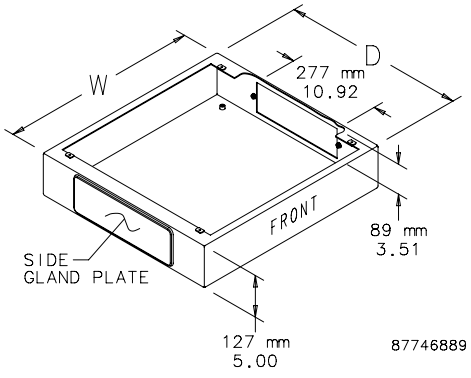
0-mm Base

Catalog Number	Description	D mm/in.	W mm/in.
PBS66	Steel	542 21.34	608 23.94
PBS86	Steel	542 21.34	808 31.81
PBS126	Steel	542 21.34	1208 47.56

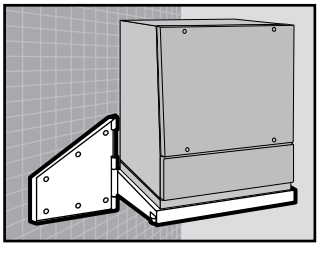


100-mm Base

Catalog Number	Description	D mm/in.	W mm/in.
PB166	Steel	559 22.01	599 23.58
PB166SS	Stainless Steel	559 22.01	599 23.58
PB186	Steel	759 29.88	599 23.58

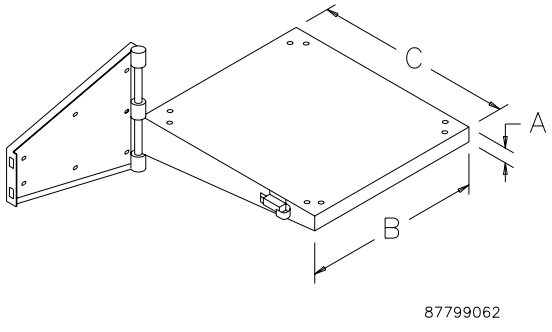


WALL-MOUNT KIT



Hinged platform for a PROLINE sloped-front enclosure pivots 90 degrees from wall bracket, allowing complete access to rear of the sloped-front enclosure. The kit can be installed to pivot left or right and locks securely in position against a wall. Pivot pin is removable. Platform can support equipment weighing up to 300 lb. and includes holes to mount 600-mm wide sloped fronts in two positions. RAL 7035 textured light-gray polyester powder paint finish. Includes Top-Unit-to-Frame Joining Kit (catalog number PJSTF6) to provide a watertight and dusttight seal to the sloped front.

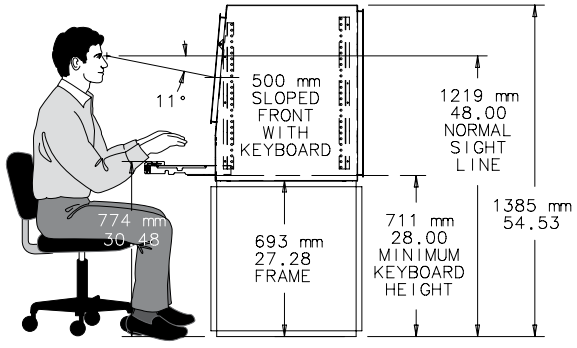
BULLETIN: P9

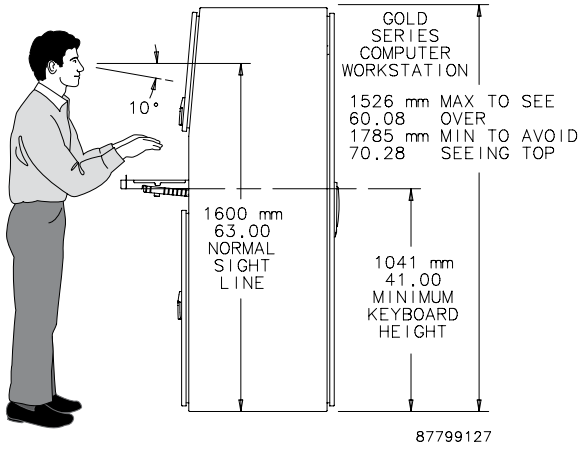


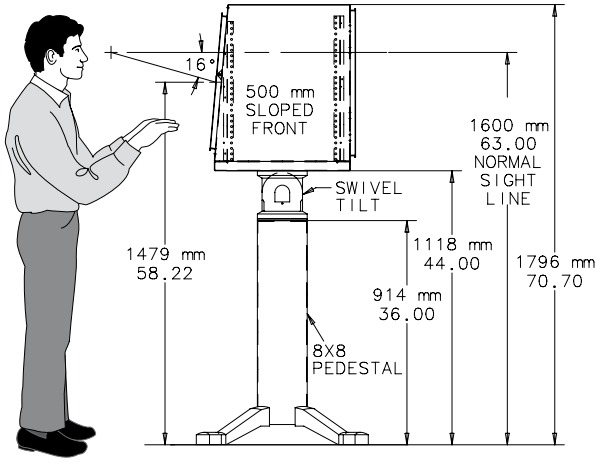
Catalog Number	AxBxC in./mm	Description
PWMK66	23.90 x 23.62 x 26.88 607 x 600 x 683	Steel

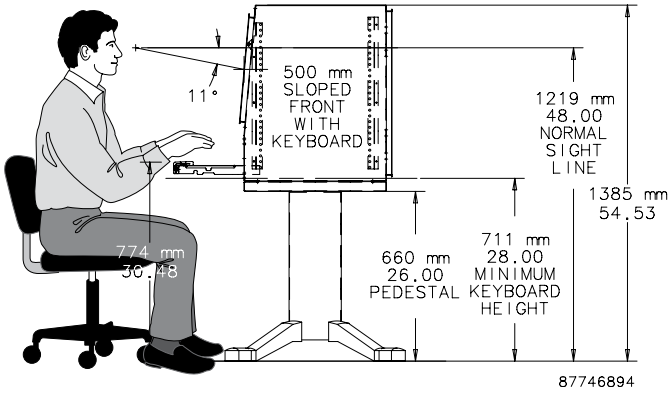
ERGONOMIC DESIGN

To order the HMI enclosure and accessories that provide an optimum ergonomic design for your operators, we've developed the Ergonomics Reference Guide below. By knowing the height of each piece that is part of the Human-Machine Interface Enclosure System, you can design a workstation that provides optimum effectiveness and safety. The adjustable keyboard and swivel/tilt accessories provide additional ergonomic solutions.









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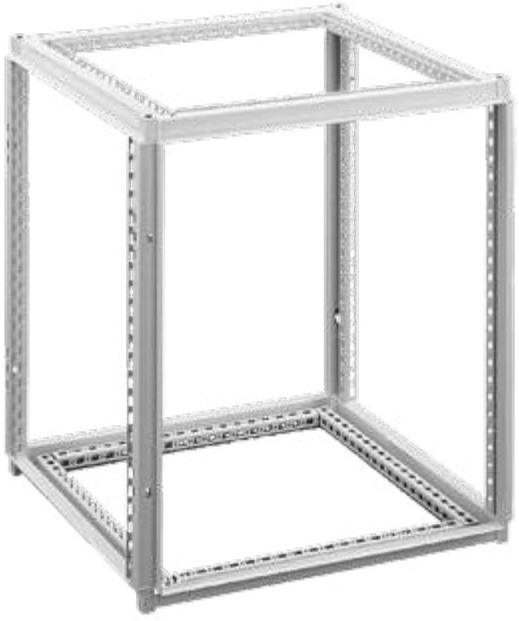
FRAME BASE FOR SLOPED-FRONT HMI



Frames are 700-mm tall and sized to allow installation of sloped fronts on top and other equipment below, thus configuring a console suitable for sitting or standing operators. The frame provides joining capability and means for rack, subpanel or grid-system mounting of any type of equipment inside. Frames are available 600-, 800- and 1200-mm wide to fit 600-, 800- and 1200-mm wide sloped fronts. All frames have two latch/hinge blocks per vertical unit. Requires appropriate frame joining kit. Finish is RAL 7035 textured light-gray polyester powder paint. See Modular Enclosure Systems for additional frame sizes.

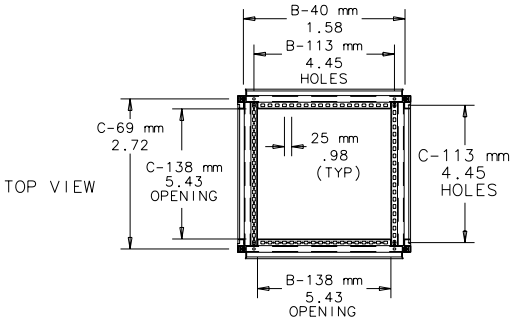
A 1200-mm wide sloped front will accommodate two 600-mm wide frames only if frame joining kit PJ2FW7 is used.

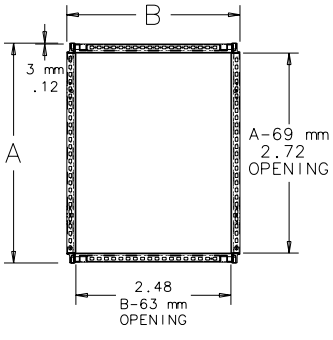
When used in conjunction with sloped fronts, PROLINE frames provide an excellent solution for configuring and joining multiple consoles into a large control installation. Joining enclosures frame-to-frame provides uninterrupted space for wiring and additional equipment. The sloped front and frame can also be used individually as a stand-alone console.

The modular design of the frames provides maximum mounting flexibility. Choose from a variety of door and cover options. A full range of accessories is also available.

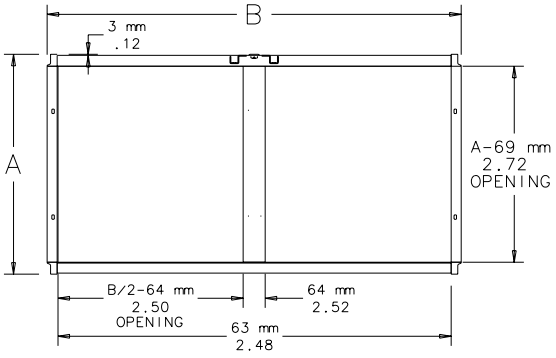
BULLETIN: P20, P20EM

Catalog Number	AxBxC mm/in.	Nominal Frame Size	Maximum Subpanel Size mm/in.	Maximum Rack Mounting Space
PF766	680 x 599 x 588 26.77 x 23.58 x 23.15	700 x 600 x 600	585 x 530 23.03 x 20.87	13U
PF786	700 x 800 x 600 27.56 x 31.50 x 23.62	700 x 800 x 600	585 x 530 23.03 x 20.87	13U
PF786HF	700 x 800 x 600 27.56 x 31.50 x 23.62	700 x 800 x 600	585 x 530 23.03 x 20.87	13U
PF7126	700 x 1200 x 600 27.56 x 47.24 x 23.62	700 x 1200 x 600	585 x 1130 23.03 x 44.49	13U x 2

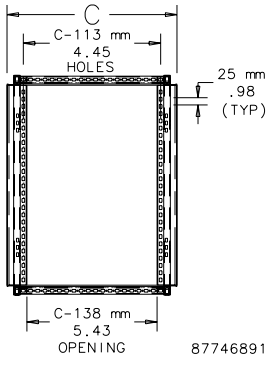




600 mm/800 mm WIDE FRAME

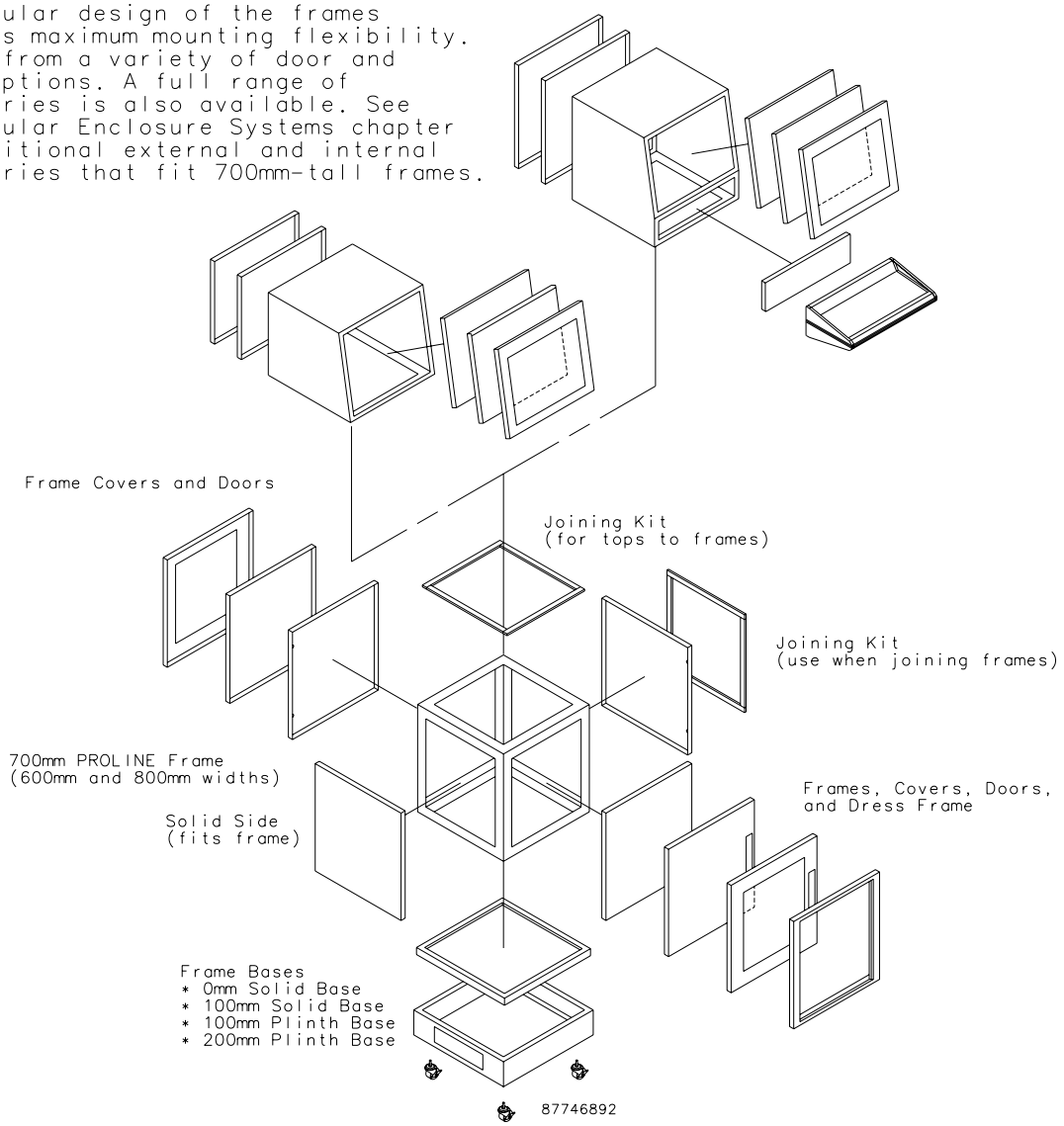


1200 mm WIDE FRAME



SIDE VIEW

When used in conjunction with sloped tops, PROLINE frames provide an excellent solution for configuring and joining multiple consoles into a large control installation. Joining enclosures frame-to-frame provides uninterrupted space for wiring and additional equipment. The sloped top and frame can also be used individually as a stand-alone console.
The modular design of the frames provides maximum mounting flexibility. Choose from a variety of door and cover options. A full range of accessories is also available. See the Modular Enclosure Systems chapter for additional external and internal accessories that fit 700mm-tall frames.



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SYSPEND MONITOR AND KEYBOARD ARM

APPLICATION

Vertical motion pendant arm for mounting a flat screen monitor, keyboard and mouse in industrial environments. Opens up plant floor space by locating the display where it is convenient for the operator. Display and keyboard can be raised and lowered with one hand. Keyboard folds up when not in use.

FEATURES

- Supports 6-15 lb. loads with an internal gas spring counterbalance
- Provides 12 in. of vertical height adjustment
- Toggle lever locks arm in place when repositioned vertically
- 3 x 3-in. and 4 x-4 in. VESA mounting pattern fits most flat screen monitors
- Arm swivels 340 degrees at monitor end and 180 degrees at mounting end
- Display tilts forward 15 degrees and back 45 degrees to reduce glare
- Folds up within 5 in. of the wall
- Display and keyboard stay level as they travel vertically
- Side cable manager protects cables and cords from pulling or chafing
- Easily installs on a wall or vertical surface
- VELCRO® included to affix keyboard to mounting surface
- Monitor, keyboard and mouse are not included

VELCRO is a trademark of Velcro Industries B.V.

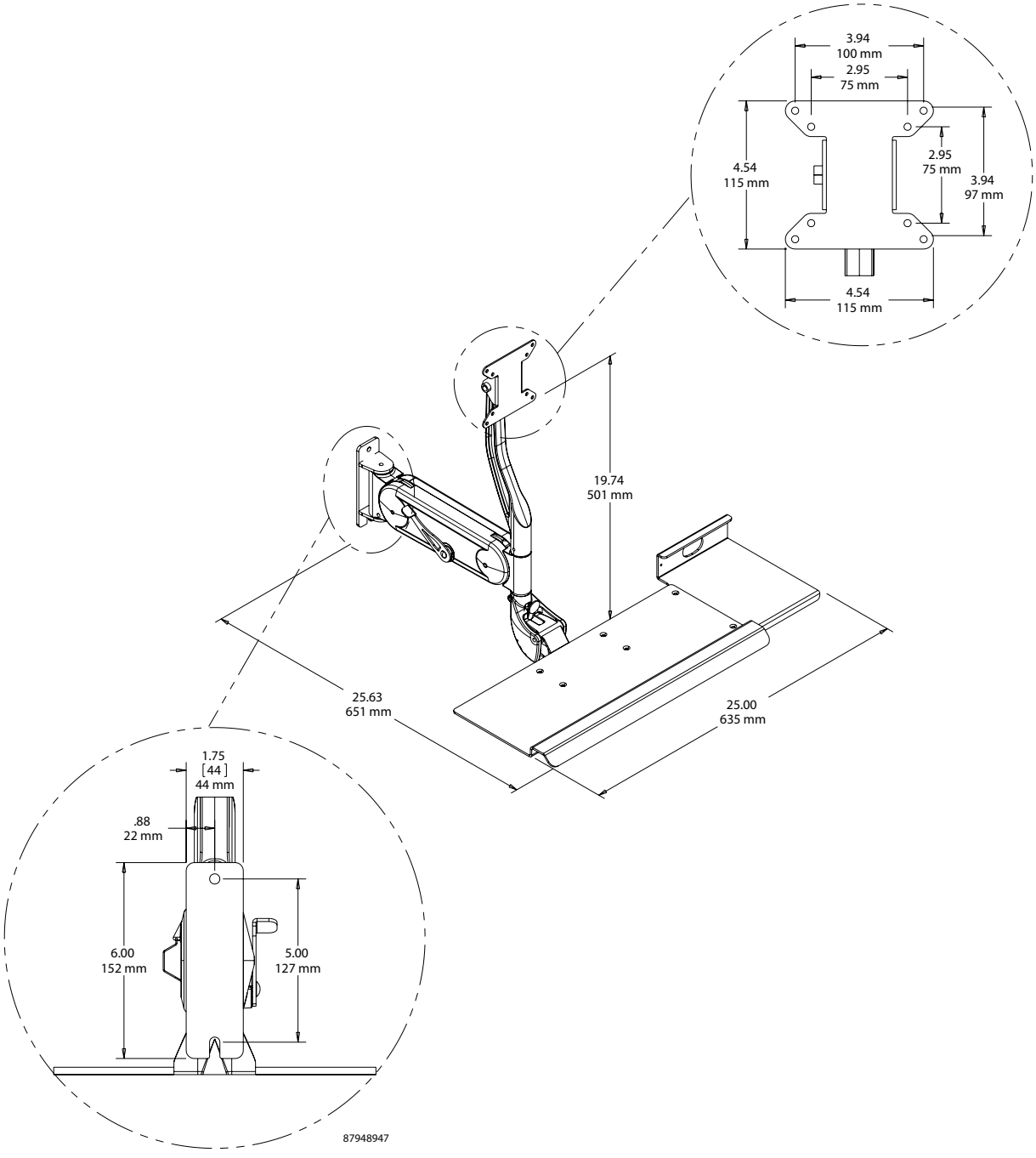
SPECIFICATIONS

- Aluminum construction
- RAL 7035 light-gray finish
- Gas spring counterbalance

BULLETIN: VM5

Standard Product

Catalog Number	AxBxC in./mm	Description	Arm Weight (lb.)	Arm Weight (kg)
VAMONITOR	21.22 x 25.00 x 25.63 539 x 635 x 651	SYSPEND Monitor and Keyboard Arm	20.0	9.07


3.94
100 mm
2.95
75 mm
4.54
115 mm
2.95
75 mm
3.94
97 mm
4.54
115 mm
19.74
501 mm
25.63
651 mm
25.00
635 mm
1.75
[44]
44 mm
.88
22 mm
6.00
152 mm
5.00
127 mm
87948947

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SYSPEND VL-MOTION ARM, TYPE 4

INDUSTRY STANDARDS

Maintains NEMA Type 4 and 12 and IEC IP66 enclosure rating when properly installed per Hoffman instructions.

APPLICATION

Vertical motion pendant arm effortlessly lifts, lowers and repositions HMI enclosures in NEMA Type 4 and 12 environments. Gas spring counterbalance can be adjusted for loads of 30-100 lb. Release handle and locking mechanism are ideal for applications where machine vibration is a concern.

FEATURES

- Field-adjustable gas-spring counterbalance supports loads of 30-100 lbs.
- Gas springs are set to maximum pressure (100 lb. load) and lifting force can be reduced through a sealed access cap in the top of the arm *(Lifting force cannot be increased once spring pressure is reduced.)*
- Provides 13 in. of vertical height adjustment
- Release handle (included with arm) automatically locks arm in place when repositioned vertically (release handle is required to operate the arm)
- Easily interfaces with Hoffman HMI enclosures using a 60-x-60-mm enclosure mounting pattern (enclosure must be ordered separately)
- 1.4-in. internal cable pathway maintains NEMA Type 4 and 12 enclosure rating and protects wires and cables
- Gasketed mounting surfaces at both ends of arm maintain seal integrity
- Enclosure and arm can be swiveled 320 degrees
- Wall-mount, machine-top-mount and post-top-mount options available
- Optional floorpost available

SPECIFICATIONS

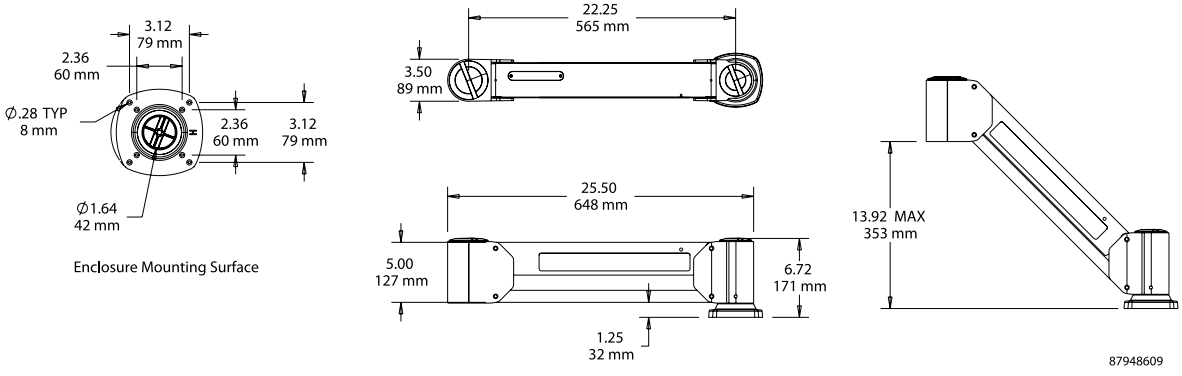
- Aluminum construction
- RAL 7035 light-gray finish
- Gas spring counterbalance

BULLETIN: VM4

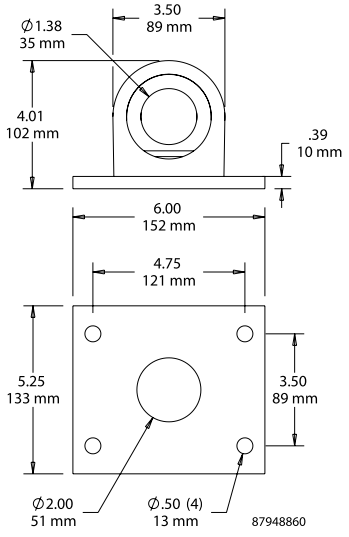
Standard Product

Catalog Number	AxBxC in./mm	Description[a]	Wall-Mount Adapter	Post-Top-Mount Adapter	Machine-Top-Mount Adapter	Load Capacity (lbs.)	Load Capacity (kg)	Arm Weight (lb.)	Arm Weight (kg)
VL22	6.72 x 25.50 x 3.50 171 x 648 x 89	VL-Motion Arm, 22-in.	VLWALL	VLPOST	VLMACHINE	30-100	14-45	20.0	9.07

[a]Mounting adapter required. Order separately.
Release handle included with arm.



WALL-MOUNT ADAPTER



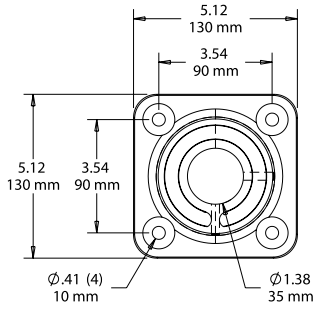
Order separately to install the SYSPEND VL-Motion Arm on a wall or vertical surface.

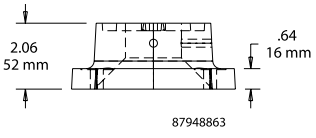
- RAL 7035 light-gray polyester powder paint finish
- Includes hardware to mount the adapter to the arm
- Hardware for mounting to the wall is not included

BULLETIN: VM4

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VLWALL	5.25 x 6.00 x 4.01 133 x 152 x 102	VL-Motion Arm Wall-Mount Adapter	8.0	3.63

MACHINE-TOP-MOUNT ADAPTER





Order separately to install the SYSPEND VL-Motion Arm on a machine top or horizontal surface.

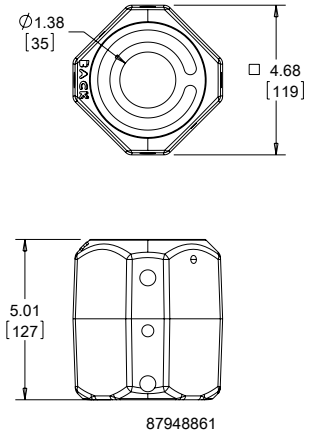
- RAL 7035 light-gray polyester powder paint finish
- Includes hardware to mount the adapter to the arm
- Hardware for mounting to a horizontal surface is not included

BULLETIN: VM4

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VLMACHINE	5.12 x 5.12 x 2.06 130 x 130 x 52	VL-Motion Arm Machine-Top-Mount Adapter	8.0	3.63

POST-MOUNT ADAPTER

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VLPOST	5.01 x 4.68 x 4.68 127 x 119 x 119	VL-Motion Arm Post-Mount Adapter	8.0	3.63



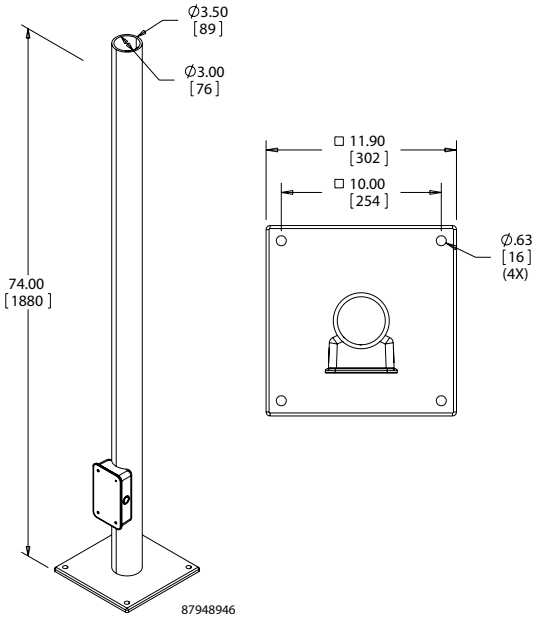
Order separately to install the SYSPEND VL-Motion Arm on a 3.5-in. OD tube.

- RAL 7035 light-gray polyester powder paint finish
- Includes hardware to mount the adapter to the arm and set screws to attach to a tube

BULLETIN: VM4

FLOORPOST WITH JUNCTION BOX

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
FLOORPOST	11.90 x 11.90 x 74.00 302 x 302 x 1880	Floorpost with Junction Box	65.0	29.48



Provides method for mounting the SYSPEND VL and VHD Motion Arms when a structural surface is not available.

- Heavy-wall 3.5-in. structural tube welded to a 12 x 12 x 3/8-in.-thick baseplate
- Provides a "rough-in" point and pull box for power and network field wiring
- Includes internal CAT5 coupler and finger-safe power terminals
- Two conduit knock-outs can be opened to either 1/2 in. or 3/4 in.
- Fully gasketed 16 gauge cover panel on junction box can be used for additional conduit attachment
- Tough, molded ABS junction box is contoured to fit the post and is fluted into the post to protect cables

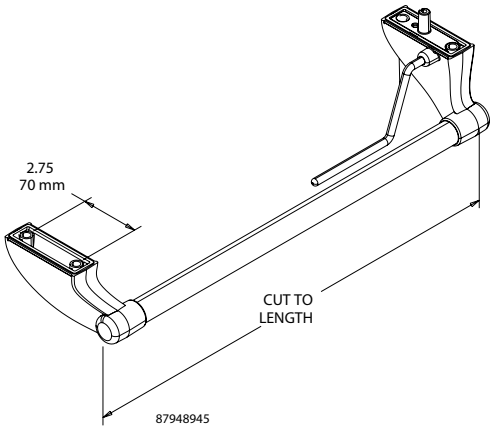
BULLETIN: VM4

REPLACEMENT RELEASE HANDLE

Replacement release handle for use with the SYSPEND VL-Motion Arm. (Handle is included with the VL-Motion Arm.)
Includes handle end supports with 491 mm (19.3 in.) tube that can be easily cut to length to fit the enclosure.

BULLETIN: HB1

Catalog Number	AxBxC in./mm	Description
VLHANDLE	3.88 x 1.38 x 19.30 99 x 35 x 490	Replacement Release Handle for VL-Motion Arm

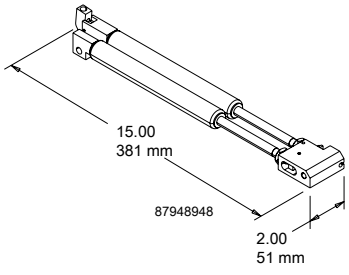


REPLACEMENT GAS SPRINGS

Includes instructions for field replacement of gas springs for the SYSPEND VL-Motion Arm.

BULLETIN: HB1

Catalog Number	AxB in./mm	Description
VLSPRINGS	2.00 x 15.00 51 x 381	Replacement Gas Springs for VL-Motion Arm



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SYSPEND VHD-MOTION ARM, TYPE 4

INDUSTRY STANDARDS

Maintains NEMA Type 4 and 12 and IEC IP66 enclosure rating when properly installed per Hoffman instructions.

APPLICATION

Heavy-duty vertical motion pendant arm effortlessly lifts, lowers and repositions HMI enclosures in NEMA Type 4 and 12 environments. Two arm lengths are available with field-adjustable counterbalances to support loads up to 125 lb. No release handle is required to operate the arm.

FEATURES

- 26-in. arm supports loads of 45-125 lb. with 13-in. of vertical height adjustment
- 36-in. arm supports loads of 25-75 lb. with 20-in. of vertical height adjustment
- Field-adjustable gas spring counterbalance allows the user to adjust lifting force by turning an adjustment mechanism under the arm
- Angle of gas springs is adjustable (not the pressure); allows lifting force to be increased or decreased at any time for changes in load
- Tension adjustment at front of the arm provides additional fine-tuning of lifting force
- No locking enclosure handle required; enclosure stays in place after repositioning
- Easily interfaces with Hoffman HMI enclosures using a 60-x-60-mm enclosure mounting pattern (enclosure must be ordered separately)
- 1.3-in. internal cable pathway maintains NEMA Type 4 and 12 enclosure rating and protects wires and cables
- Gasketed mounting surfaces at both ends of arm maintain seal integrity
- Enclosure and arm can be swiveled 330 degrees with swivel stops available in 30-degree increments
- Standard models are available with machine-top mounting (wall-mount and post-mount adapters sold separately)
- Optional floorpost available

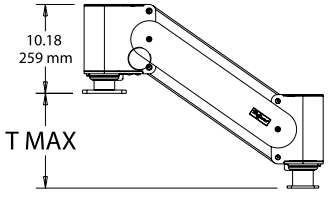
SPECIFICATIONS

- Mild steel construction
- RAL 7035 light-gray finish with black end supports
- Gas spring counterbalance

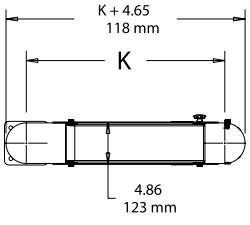
BULLETIN: DMID, VM2

Standard Product

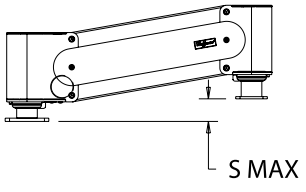
Catalog Number	AxBxC in./mm	Description	Wall-Mount Adapter	Post-Mount Adapter	Load Capacity (lb.)	Load Capacity (kg)	Arm Length mm/in.	Arm Weight (lbs.)	K in./mm	S in./mm	T in./mm
VHD26	10.18 x 30.65 x 4.86 259 x 779 x 123	VHD-Motion Arm, 26-in. Machine-Top Mount	VHDWALL	VHDPOST	45-125	20-57	25	54	26.00 660	3.00 76	10.00 254
VHD36	10.18 x 40.65 x 4.86 259 x 1033 x 123	VHD-Motion Arm, 36-in. Machine-Top Mount	VHDWALL	VHDPOST	25-75	11-37	27	60	36.00 914	4.00 102	16.00 406



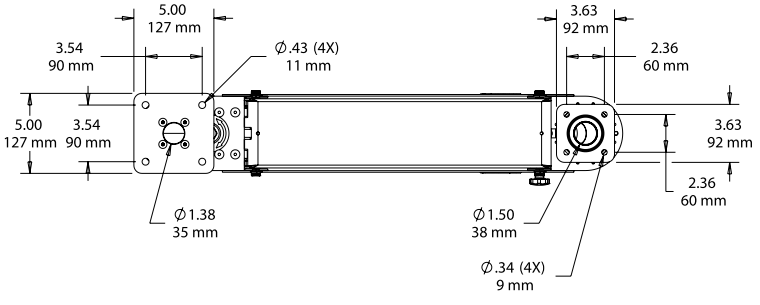
DOWNWARD TRAVEL



TOP VIEW

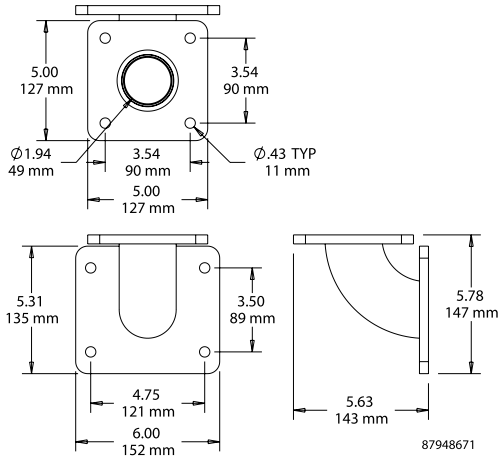


UPWARD TRAVEL



BOTTOM VIEW

WALL-MOUNT ADAPTER



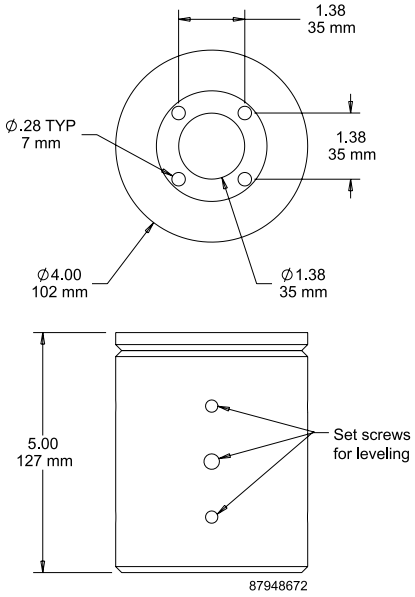
Order separately when installing the SYSPEND VHD-Motion Arm to a wall or vertical surface.

- RAL 7035 light-gray polyester powder paint finish
- Includes hardware to mount the adapter to the arm
- Hardware for mounting to the wall is not included

BULLETIN: VM2

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VHDWALL	5.78 x 5.63 x 5.00 147 x 143 x 127	VHD-Motion Arm Wall-Mount Adapter	10.0	4.54

POST-MOUNT ADAPTER



Order separately when installing the SYSPEND VHD-Motion Arm to a 3.5-in. OD tube.

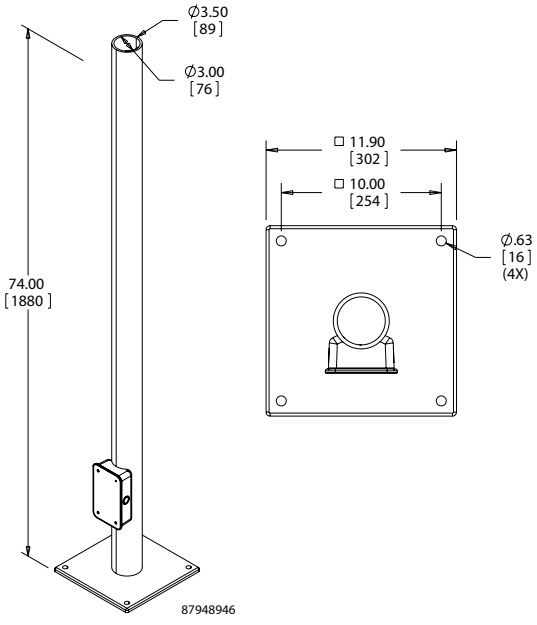
- RAL 7035 light-gray polyester powder paint finish
- Includes hardware to mount the adapter to the arm and setscrews for mounting to a tube

BULLETIN: VM2

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VHDPOST	5.00 x 4.00 x 4.00 127 x 102 x 102	VHD-Motion Arm Post-Mount Adapter	6.5	2.95

FLOORPOST WITH JUNCTION BOX

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
FLOORPOST	11.90 x 11.90 x 74.00 302 x 302 x 1880	Floorpost with Junction Box	65.0	29.48



Provides method for mounting the SYSPEND VL and VHD Motion Arms when a structural surface is not available.

- Heavy-wall 3.5-in. structural tube welded to a 12 x 12 x 3/8-in.-thick baseplate
- Provides a "rough-in" point and pull box for power and network field wiring
- Includes internal CAT5 coupler and finger-safe power terminals
- Two conduit knock-outs can be opened to either 1/2 in. or 3/4 in.
- Fully gasketed 16 gauge cover panel on junction box can be used for additional conduit attachment
- Tough, molded ABS junction box is contoured to fit the post and is fluted into the post to protect cables

BULLETIN: VM4

HANDLES

Accessory handle kits are available to allow for easy repositioning of the enclosure. Handles attach inside enclosure with provided hardware. Handles are not required to use the SYSPEND VHD-Motion Arm.

BULLETIN: C2, CC3

Catalog Number	Description	Weight (lb.)
CHDLK	One pair of handles and mounting hardware	1.7

SYSPEND VHDS-MOTION ARM, TYPE 4X

INDUSTRY STANDARDS

Maintains NEMA Type 4, 4X and 12 and IEC IP 66 enclosure ratings when properly installed per Hoffman instructions.

APPLICATION

Heavy-duty, stainless steel vertical motion pendant arm provides corrosion resistance and suspends process and control equipment for easy cleaning. Operators in NEMA Type 4X environments can effortlessly lift, lower and reposition HMI enclosures using the pendant arm's field-adjustable counterbalance.

FEATURES

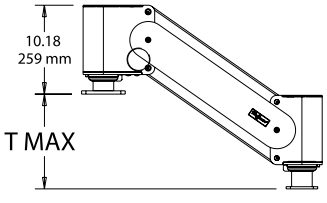
- Corrosion resistant stainless steel housing with provisions for water drainage from arm
- 26-in. arm supports loads of 45-125 lb. with 13-in. of vertical height adjustment
- 36-in. arm supports loads of 25-75 lb. with 20-in. of vertical height adjustment
- Field-adjustable gas spring counterbalance allows the user to adjust lifting force by turning an adjustment mechanism under the arm
- Angle of gas springs is adjustable (not the pressure); allows lifting force to be increased or decreased at any time for changes in load
- Tension adjustment at front of the arm provides additional fine-tuning of lifting force
- No locking enclosure handle required; enclosure stays in place when repositioned
- Easily interfaces with Hoffman HMI enclosures using a 60-x-60-mm enclosure mounting pattern (enclosure must be ordered separately; not for use with CS480 enclosures)
- 1.25-in. internal cable pathway maintains Type 4, 4X and 12 enclosure rating and protects wires and cables
- Gasketed mounting surfaces at both ends of arm maintain seal integrity
- Enclosure and arm can be swiveled 330 degrees with swivel stops available in 30-degree increments
- Standard models are available with machine-top mounting (wall-mount and post-mount adapters sold separately)
- Optional floorpost available

SPECIFICATIONS

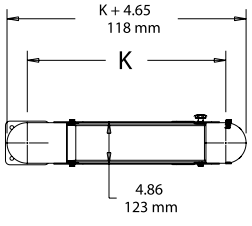
- Type 304 stainless steel construction
- Gas spring counterbalance

BULLETIN: DBB, VM3

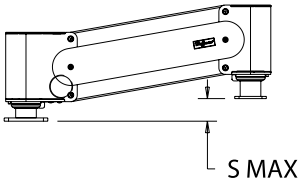
Catalog Number	AxBxC in./mm	Description	Wall-Mount Adapter	Post-Mount Adapter	Load Capacity (lb.)	Load Capacity (kg)	Arm Weight (lb.)	Arm Weight (kg)	K in./mm	S in./mm	T in./mm
VHDS26	10.18 x 30.65 x 4.86 259 x 779 x 123	VHDS-Motion Arm, 26-in. Machine-Top Mount	VHDSWALL	VHDSPOST	45-125	20-57	54	25	26.00 660	3.00 76	10.00 254
VHDS36	10.18 x 40.65 x 4.86 259 x 1033 x 123	VHDS-Motion Arm, 36-in. Machine-Top Mount	VHDSWALL	VHDSPOST	25-75	11-37	60	27	36.00 914	4.00 102	16.00 406



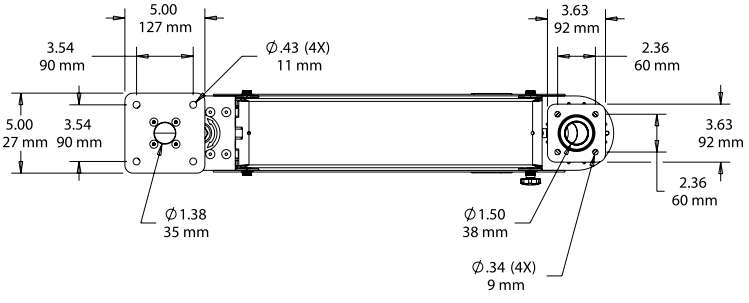
DOWNWARD TRAVEL



TOP VIEW



UPWARD TRAVEL



BOTTOM VIEW

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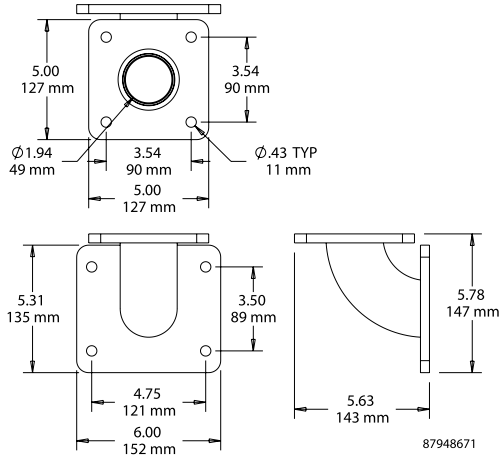
WALL-MOUNT ADAPTER



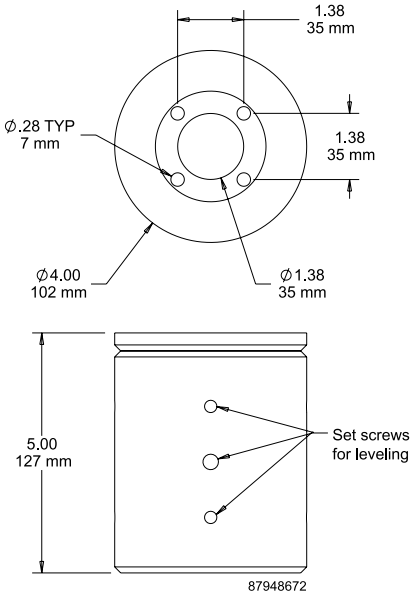
Order separately to install the SYSPEND VHDS-Motion Arm on a wall or vertical surface.

- Type 304 stainless steel
- Includes hardware to mount the adapter to the arm
- Hardware for mounting to the wall is not included

BULLETIN: VM3

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VHDSWALL	5.78 x 5.63 x 5.00 147 x 143 x 127	VHDS-Motion Arm Wall-Mount Adapter	10.0	4.54

POST-MOUNT ADAPTER



Order separately when installing the SYSPEND VHDS-Motion Arm to a 3.5-in. OD tube.

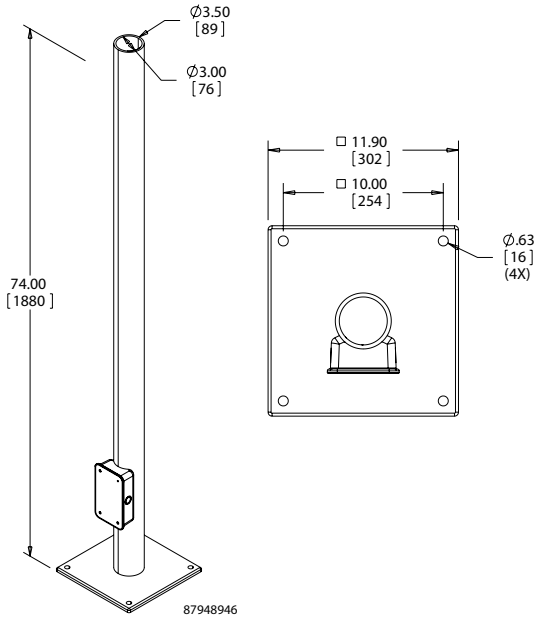
- Type 304 stainless steel
- Includes hardware to mount the adapter to the arm and setscrews for mounting to a tube

BULLETIN: VM3

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
VHDSPOST	5.00 x 4.00 x 4.00 127 x 102 x 102	VHDS-Motion Arm Post-Mount Adapter	7.0	3.18

STAINLESS STEEL FLOORPOST WITH JUNCTION BOX

Catalog Number	AxBxC in./mm	Description	Weight (lb.)	Weight (kg)
FLOORPOSTSS	11.90 x 11.90 x 74.00 302 x 302 x 1880	Stainless Steel Floorpost with Junction Box	70	31.75



Provides method for mounting the SYSPEND VHDS-Motion Arm when a structural surface is not available.

- Heavy-wall 3.5-in. structural tube welded to a 12 x 12 x 3/8-in.-thick baseplate
- Provides a "rough-in" point and pull box for power and network field wiring
- Includes internal CAT5 coupler and finger-safe power terminals
- Two conduit knock-outs can be opened to either 1/2 in. or 3/4 in.
- Fully gasketed 16 gauge cover panel on junction box can be used for additional conduit attachment
- Tough, molded ABS junction box is contoured to fit the post and is fluted into the post to protect cables

BULLETIN: VM3

HANDLES

Handles are stainless steel for mounting on enclosure sides. Mounting hardware included. Enclosure machining required. (Handles are not required to use the SYSPEND VHDS-Motion Arm.)

BULLETIN: CCR6Y

Catalog Number	Description	Weight (lb.)
CCSSHDL	Handles for CC480/600 enclosures	5.0

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COMPACT PENDANT ARM SERIES 1, TYPE 12

APPLICATION

The Series 1 COMPACT Pendant Arm provides a flexible and easy-to-use method for mounting and positioning small or lightweight HMI controls and instruments, up to 30 lbs. The COMPACT Pendant Arm is easily attached to a machine or wall and moves both horizontally and vertically to suit the user's needs and preferences.

SPECIFICATIONS

- Cast aluminum and extruded aluminum tube
- Four pre-assembled models. One model capable of horizontal and vertical motion. One model capable of horizontal motion. Either model is available in two lengths, 500 mm or 800 mm.
- Internal braking mechanism (vertical motion only) prevents downward "free-fall" motion when locked
- Easily removable snap-on cover provides access to wire containment channel
- Adjustable enclosure mounting. Arm can be configured to mount to top, bottom or back of an enclosure.
- Enclosure mounting plate can be rotated, tilted and locked into desired position
- Handle available as option

INDUSTRY STANDARDS

NEMA/EEMAC Type 12
IEC 60529, IP65
DIN 40050

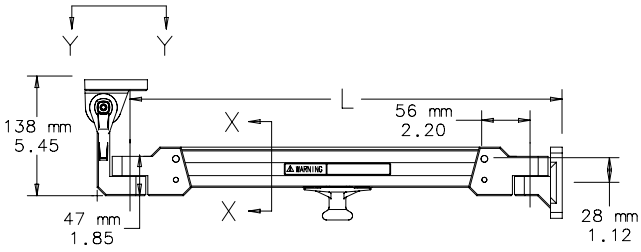
FINISH

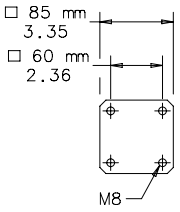
Tube is anodized. Color is silver. Fittings and snap-on cover are RAL 7035 light-gray polyester powder paint.

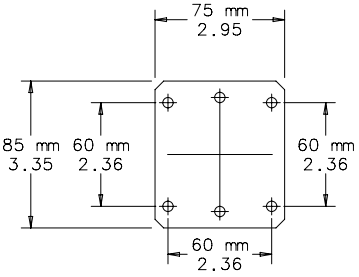
BULLETIN: CS4

Standard Product

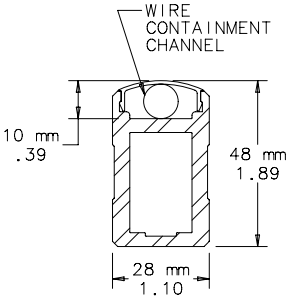
Catalog Number	Description	L	Maximum Load
CCS1H5V	Vertical and horizontal motion	500 mm	30 lbs.
CCS1H8V	Vertical and horizontal motion	800 mm	15 lbs.
CCS1H5	Horizontal motion	500 mm	30 lbs.
CCS1H8	Horizontal motion	800 mm	15 lbs.



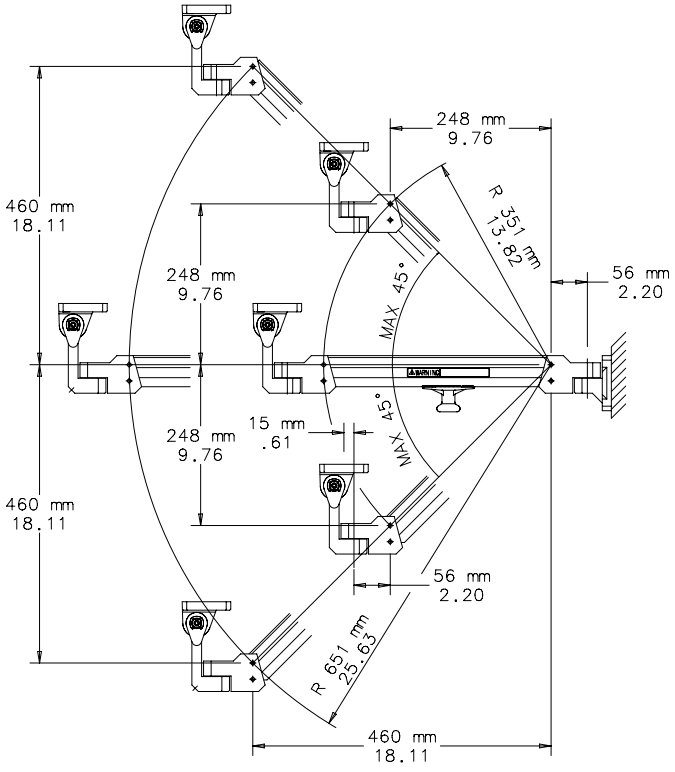




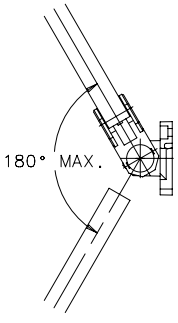
DETAIL Y-Y



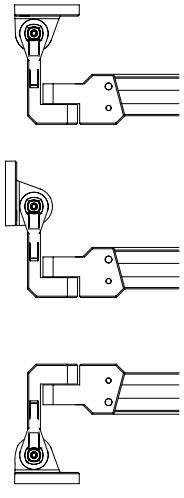
SECTION X-X



VERTICAL ROTATION



HORIZONTAL ROTATION



ENCLOSURE MOUNTING POSITIONS

87799131

HANDLE

Mounts to end of arm in pre-threaded hole.

BULLETIN: CS4

Catalog Number	Color
CCS1HDL	Black

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COMPACT PENDANT ARM SERIES 2, TYPE 12

APPLICATION

COMPACT Series 2 Pendant Arms allow operators to easily move controls into and out of position as needed, and they are easily mounted to a machine, wall or floor. Offering both superior load-bearing capacity and functional reliability, the COMPACT Series 2 Pendant Arm has a maximum load of 101 lb. (45.8 kg) at 3.3 ft. (1 m) and is recommended for use with INLINE, CC2000, CC4000 and CONCEPT HMI enclosures as well as Consolets.

SPECIFICATIONS

- Cast aluminum couplings and extruded aluminum tubing. Series components provide excellent structural strength.
- Multiple coupling types and three standard tube lengths (500, 1000 and 1500 mm) combine to form numerous configurations as conduits for equipment wiring (see configuration guide)
- Removable access plates simplify cable installation inside fittings
- Heavy duty bearings in all movable joints for convenient, smooth operation and enhanced durability
- Deep tube fittings in all couplings
- Adjustable set screws allow accurate alignment of supporting tubes
- Oil-resistant neoprene gasket

FINISH

Couplings and access plates have RAL 7035 light-gray polyester powder paint finish. Tubing is anodized aluminum.

INDUSTRY STANDARDS

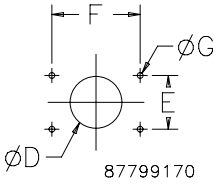
NEMA/EEMAC Type 12
IEC 60529, IP55
DIN 40050

Standard Cutout for Mounting

Dimensions for Cutout	Set-Up Joint in./mm	Vertical or Horizontal Wall Joint in./mm	Flange or Flange Elbow Coupling/Swivel Tilt Straight or 90° Elbow in./mm	Wall Flange or Base Bracket in./mm	Rotational Base in./mm
ØD	1.58 40	2.76 70	1.58 40	— —	1.58 40
E	3.54 90	3.54 90	2.36 60	3.54 90	3.54 90
F	3.54 90	4.33 110	2.36 60	3.54 90	3.54 90
ØG	0.35 9	0.35 9	0.26 7	0.35 9	0.35 9

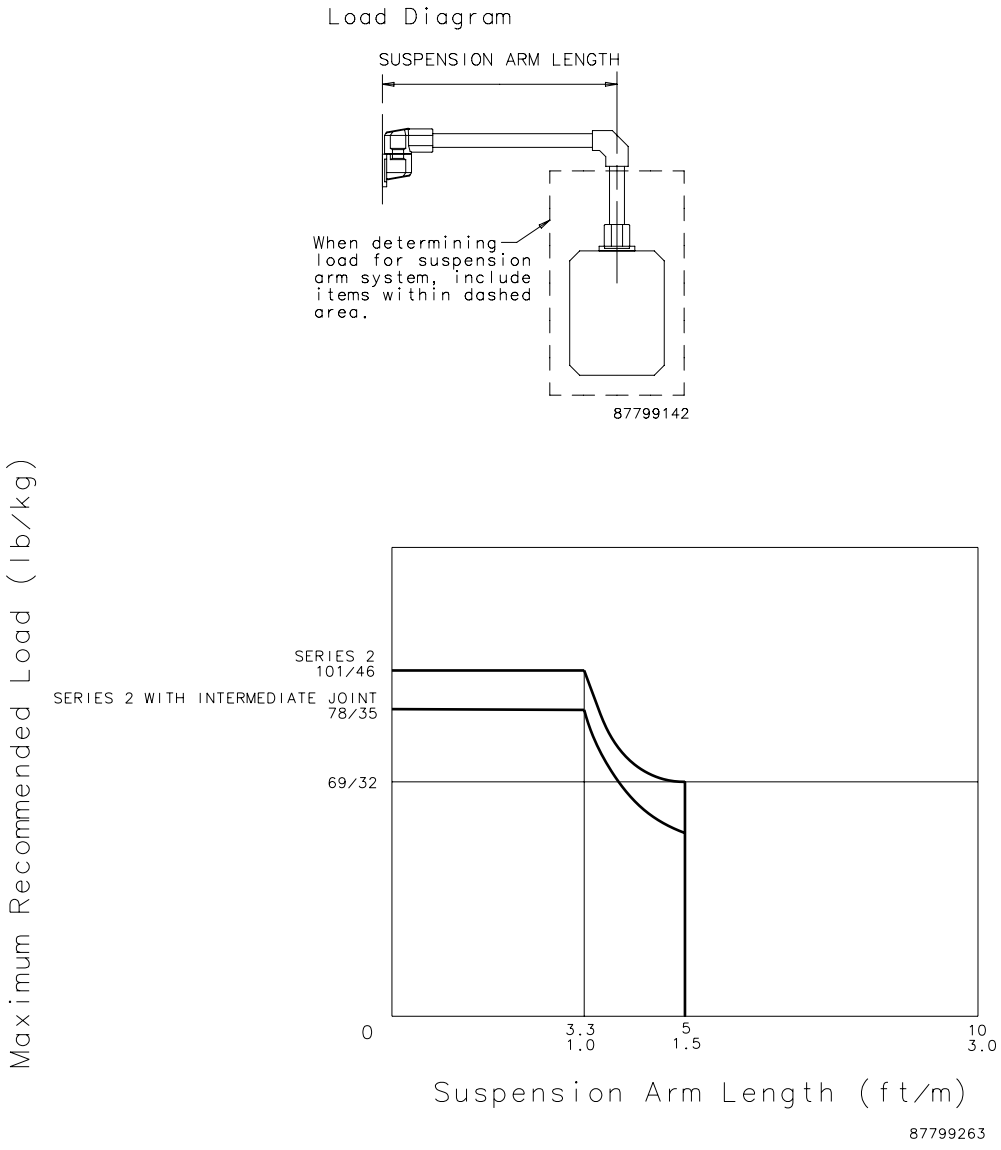
See product drawings for alternate shallow enclosure mounting.

Standard Cutout for Mounting



SYSTEM LOAD CAPACITY

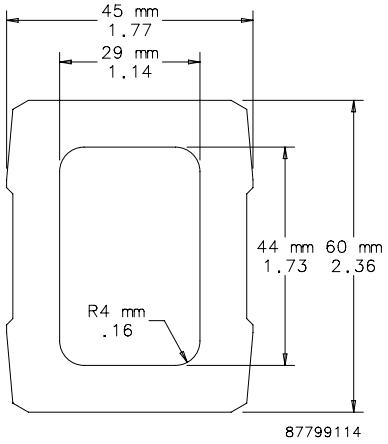
The Series 2 pendant arm load graph is the result of load capacity tests. Please contact Hoffman for specific application information.



TUBES

Hollow aluminum extrusion available in 500-, 1000- and 1500-mm lengths. Connection components fastened to support arm with set screws. DIN 59411 and 2395.

BULLETIN: CS4

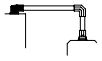


Catalog Number	AxBxC in./mm	Length in./mm	External Dimensions in./mm	Wall Thickness Dimensions in./mm	Inside Cross Section (cm^2)	Inside Cross Section ($in.^2$)	Weight (lb.)
CCS2T5	19.68 x 1.77 x 2.36 500 x 45 x 60	19.68 500	1.77 x 2.36 45 x 60	0.31 8	12.65	1.96	4.5
CCS2T10	39.37 x 1.77 x 2.36 1000 x 45 x 60	39.37 1000	1.77 x 2.36 45 x 60	0.31 8	12.65	1.96	9.0
CCS2T20	59.06 x 1.77 x 2.36 1500 x 45 x 60	59.06 1500	1.77 x 2.36 45 x 60	0.31 8	12.65	1.96	14.0

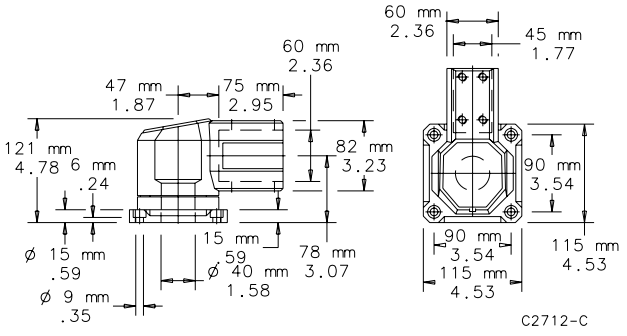
SET-UP JOINT

Joint includes access plate for easy wire installation. Turning range of 300 degrees. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Setscrews, gasket and removable access plate included. Mounting fasteners are not provided.

BULLETIN: CS4



Catalog Number	Weight (lb.)
CCS2SJLG	4.0

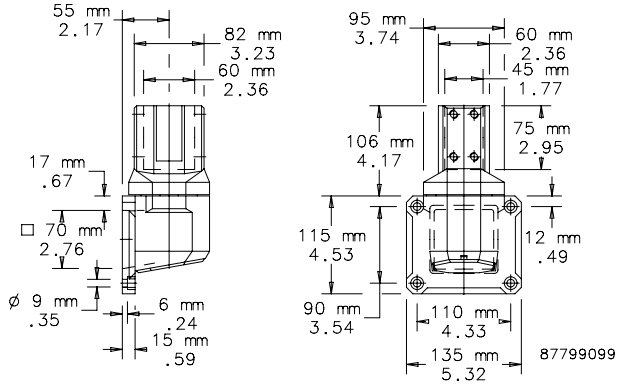


WALL JOINT (VERTICAL)

Vertical joint includes access plate for easy wire installation. Turning range of 300 degrees. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Setscrews, gasket and removable access plate included. Mounting fasteners are not provided.

BULLETIN: CS4

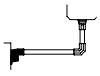
Catalog Number	Weight (lb.)
CCS2WJVLG	5.0



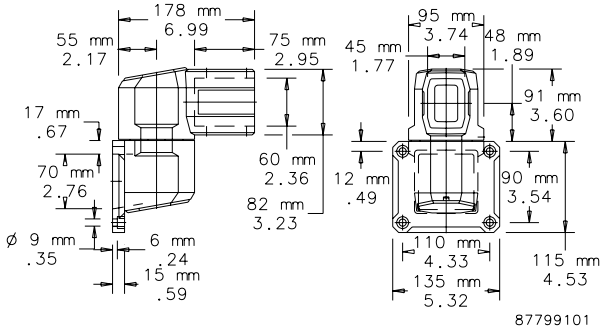
WALL JOINT (HORIZONTAL)

Includes access plates for easy wire installation. Turning range of 300 degrees. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Setscrews, gasket and removable access plates included. Mounting fasteners not provided.

BULLETIN: CS4



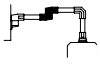
Catalog Number	Weight (lb.)
CCS2WJHLG	5.0



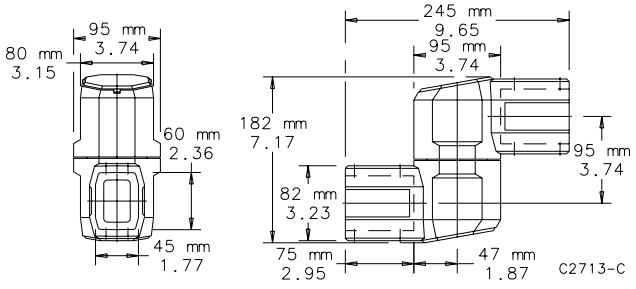
INTERMEDIATE JOINT

Joint is cast aluminum with RAL 7035 light-gray polyester powder paint finish. Turning range is 360 degrees with stop. Includes access plates for easy wire installation, installation hardware and gasket. Use of the intermediate joint reduces pendant arm load capacity by 43 percent.

BULLETIN: CS4



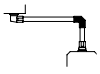
Catalog Number	Weight (lb.)
CCS2IJLG	5.0



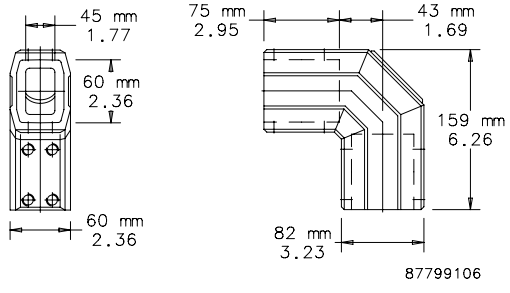
HEAVY DUTY ELBOW

Elbow is made of aluminum with increased wall thickness for additional strength and support. Setscrews for tube adjustment. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. All installation hardware and gasket included.

BULLETIN: CS4



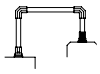
Catalog Number	Weight (lb.)
CCS2EHDLG	3.0



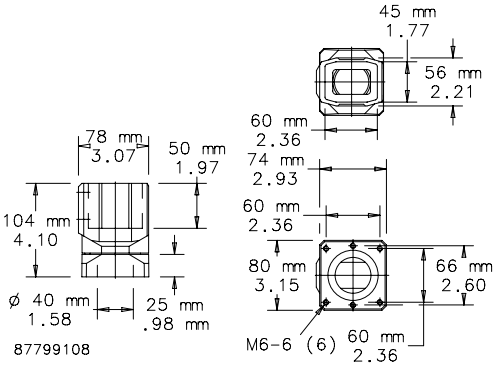
FLANGE COUPLING

Coupling can rotate 300 degrees. Maintenance-free bearing is steel and polyamide. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Installation hardware, mounting fasteners and gasket included.

BULLETIN: CS4



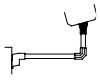
Catalog Number	Weight (lb.)
CCS2FCLG	2.5



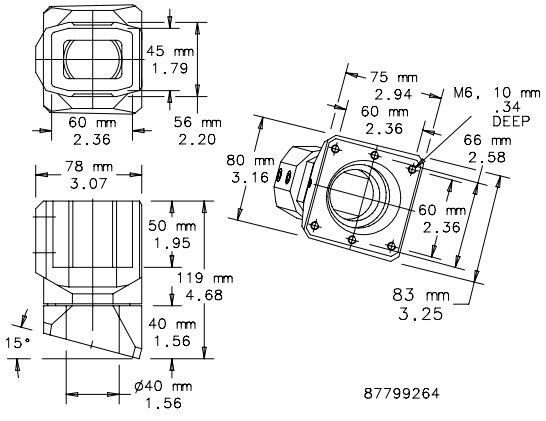
FLANGE COUPLING, 15-DEGREE

Coupling can rotate 300 degrees. Maintenance-free bearing is steel and polyamide. Enclosure is mounted at a 15-degree incline angle. Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Installation hardware, mounting fasteners and gaskets included.

BULLETIN: CS4



Catalog Number	Product Weight (lb.)
CCS2FC15LG	2.5

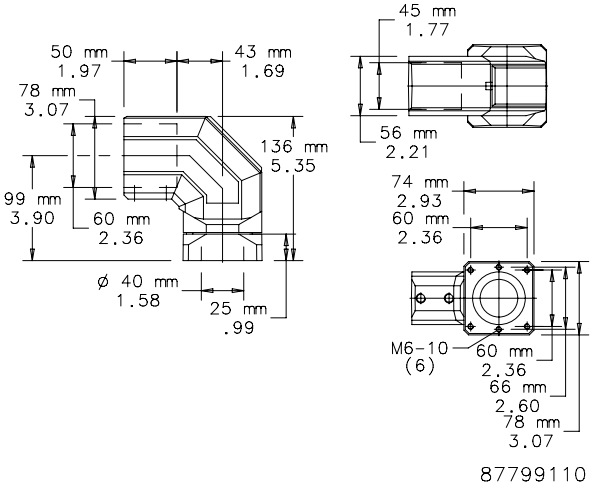


FLANGE ELBOW COUPLING

Turning range of 300 degrees. Maintenance-free bearing is steel and polyamide. Includes access plate for easy wire installation. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Installation hardware, mounting fasteners and gasket included.

BULLETIN: CS4

Catalog Number	Weight (lb.)
CCS2FECLG	3.0

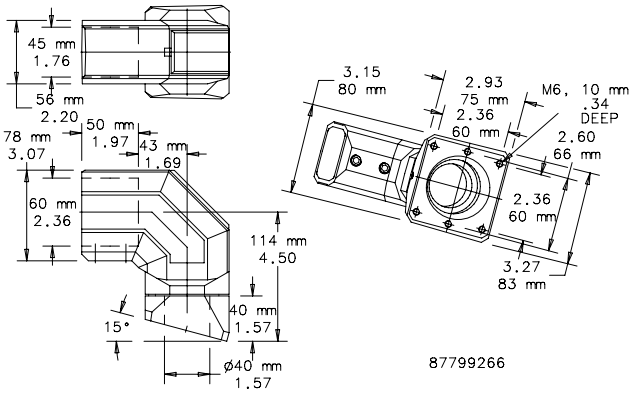


FLANGE ELBOW COUPLING, 15-DEGREE

Turning range of 300 degrees. Maintenance-free bearing is steel and polyamide. Access plate included for easy wire installation. Enclosure is mounted at a 15-degree incline angle. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Installation hardware, mounting fasteners and gaskets included.

BULLETIN: CS4

Catalog Number	Product Weight (lb.)
CCS2FEC15LG	3.1

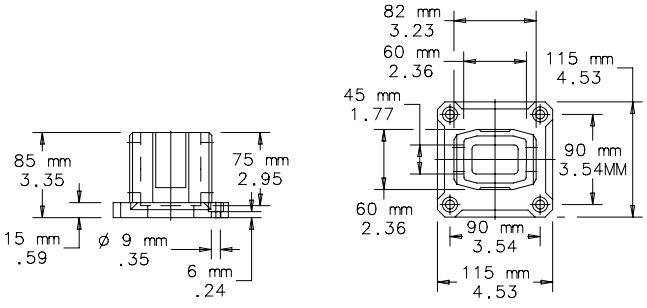


BASE BRACKET/WALL FLANGE

Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Set screws and gasket are included. Mounting fasteners are not provided.

BULLETIN: CS4

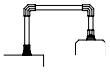
Catalog Number	Weight (lb.)
CCS2WFBLG	2.5



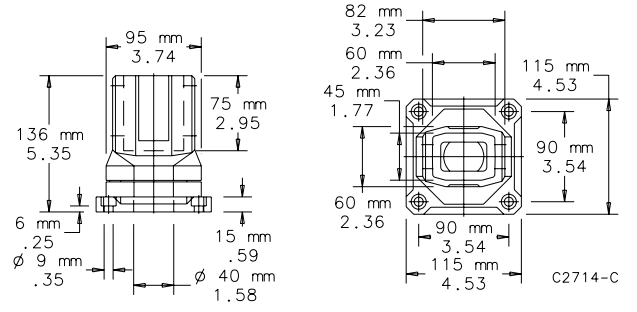
ROTATIONAL BASE

Turning range of 300 degrees. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Setscrews and gasket are included. Mounting fasteners are not provided.

BULLETIN: CS4



Catalog Number	Weight (lb.)
CCS2RBLG	3.5

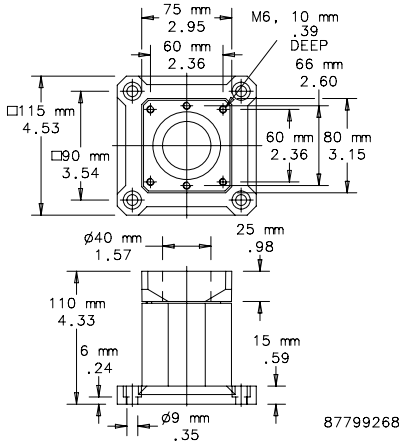


ROTATIONAL BASE BRACKET

Turning range of 300 degrees. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Setscrews and gaskets are included. Mounting fasteners are not provided.

BULLETIN: CS4

Catalog Number	Product Weight (lb.)
CCS2RBBLG	2.7

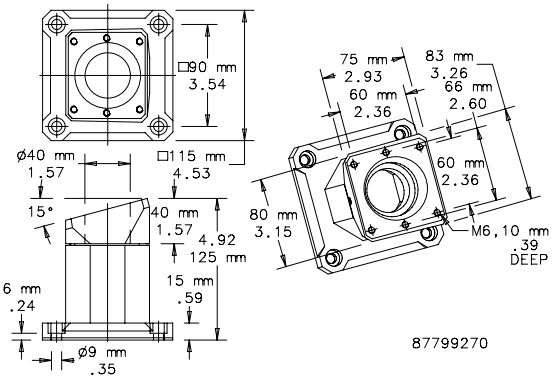


ROTATIONAL BASE BRACKET, 15-DEGREE

Turning range of 300 degrees. Enclosure is mounted at a 15-degree incline angle. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Setscrews and gaskets are included. Mounting fasteners are not provided.

BULLETIN: CS4

Catalog Number	Product Weight (lbs.)
CCS2RBB15LG	2.7



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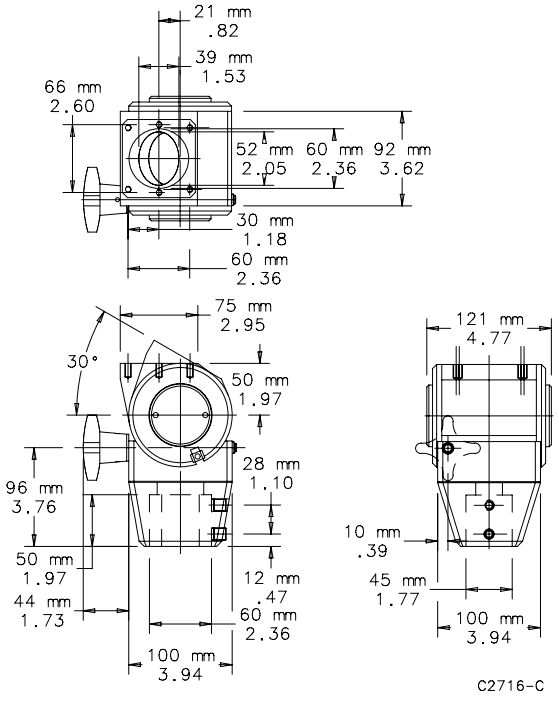
SWIVEL TILT STRAIGHT

Mounts between pendant arm and HMI enclosure to provide both swivel and tilt options for the machine operator. Swivel allows 300-degree maximum rotation. Tilt allows infinite adjustment from horizontal to 30 degrees. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Installation hardware, mounting fasteners and gasket included.
Maximum load is 66 lb. (30 kg).

BULLETIN: CS4

Catalog Number	Weight (lb.)
CCS2STLG	7.0

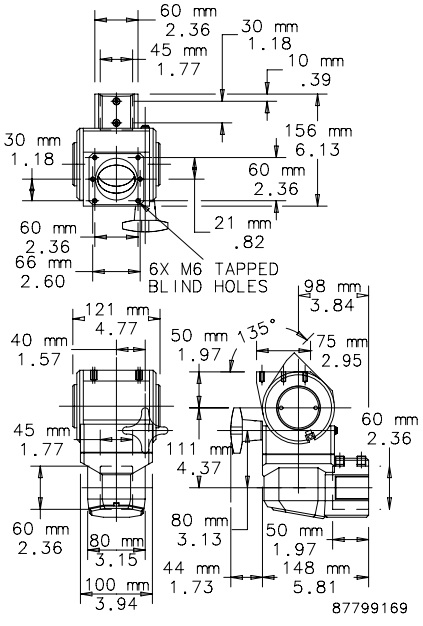


SWIVEL TILT 90-DEGREE ELBOW

Mounts between pendant arm and HMI enclosure to provide both swivel and tilt options for the machine operator. A 90-degree elbow is incorporated into this design. Swivel allows 300-degree maximum rotation. Tilt allows infinite adjustment from horizontal to 30 degrees. Cast aluminum finished in RAL 7035 light-gray polyester powder paint. Installation hardware, mounting fasteners and gasket are included.
Maximum load is 66 lb. (30 kg).

BULLETIN: CS4

Catalog Number	Weight (lb.)
CCS2ESTLG	7.5



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PEDESTAL BASE

Base is cast aluminum one-piece construction finished with RAL 7035 light-gray textured polyester powder paint. Includes all hardware for attaching tubes.

BULLETIN: CC3

Catalog Number
CCS2PB

MONITOR PLATFORM

Platform attaches to pendant arm to provide a surface for a monitor. Adjustable stops hold monitor securely in place. Aluminum construction finished with RAL 7042 gray polyester powder paint. Order Monitor Platform, Keyboard Tray and Keyboard Frame separately.

BULLETIN: CS4

Catalog Number	Description
CCS1MP	Monitor Platform (Does not include Keyboard Frame or Keyboard Tray)

KEYBOARD FRAME

Mounts to monitor platform. Frame locks at desired position by tightening knobs. Chrome plated finish. Order Monitor Platform, Keyboard Tray and Keyboard Frame separately.

BULLETIN: CS4

Catalog Number	Description
CCS1KBF	Keyboard Frame only

KEYBOARD TRAY

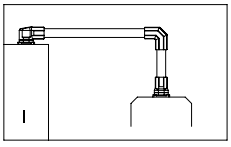
Tray attaches to keyboard frame. Provides a surface for a PC mouse as well as a platform for a keyboard. Aluminum construction finished with RAL 7042 gray polyester powder paint. Order Monitor Platform, Keyboard Tray and Keyboard Frame separately.

BULLETIN: CS4

Catalog Number	Description
CCS1KBT	Keyboard Tray only

SYSTEM CONFIGURATIONS

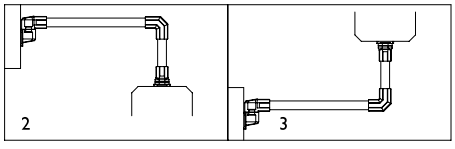
Note to Specifier:
Select suspension system sizing using the Compact Series 2 load capacity chart.
1. Tube catalog numbers are not included in configuration tables.
2. There are multiple configurations possible with many of the options shown. Components can be inverted. For illustration purposes, configurations may show how components can be inverted or used with varying enclosure couplings.



87799173

1

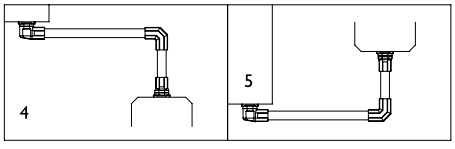
Description	Qty.	Catalog Number
Set up joint	1	CCS2JLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799174

2 AND 3

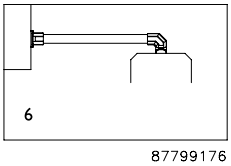
Description	Qty.	Catalog Number
Wall joint (horizontal)	1	CCS2WJHLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt or Flange coupling 15º	1 1 1	CCS2FCLG CCS2STLG CCS2FC15LG



87799175

4 AND 5

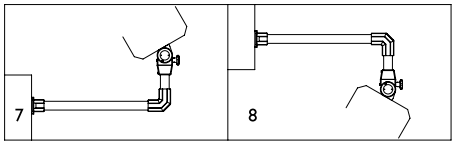
Description	Qty.	Catalog Number
Set up joint	1	CCS2SJLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799176

6

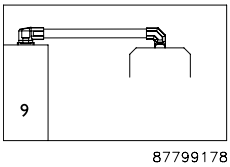
Description	Qty.	Catalog Number
Wall flange/base bracket	1	CCS2WFBLG
Flange elbow coupling or 90º Swivel tilt or Flange elbow coupling 15º	1 1 1	CCS2FECLG CCS2ESTLG CCS2FEC15LG



87799177

7 AND 8

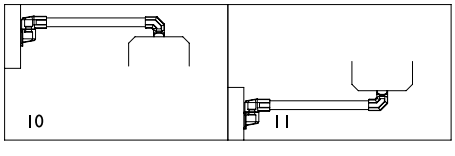
Description	Qty.	Catalog Number
Wall flange/base bracket	1	CCS2WFBLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799178

9

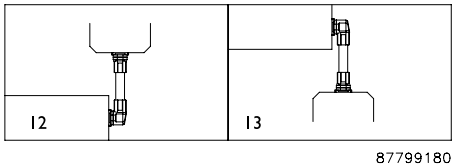
Description	Qty.	Catalog Number
Set-up joint	1	CCS2SJLG
Flange elbow coupling or 90º Swivel tilt	1 1	CCS2FECLG CCS2ESTLG



87799179

10 AND 11

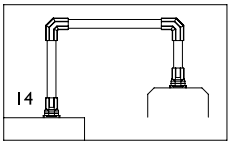
Description	Qty.	Catalog Number
Wall joint (horizontal)	1	CCS2WJHLG
Flange elbow coupling or 90º Swivel tilt	1 1	CCS2FECLG CCS2ESTLG



87799180

12 AND 13

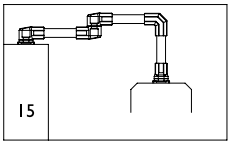
Description	Qty.	Catalog Number
Wall joint (vertical)	1	CCS2WJVLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799181

14

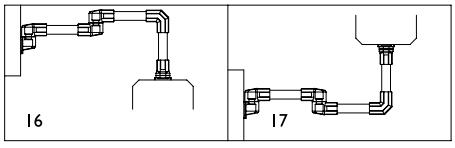
Description	Qty.	Catalog Number
Rotational base	1	CCS2RBLG
Heavy duty elbow	2	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799182

15

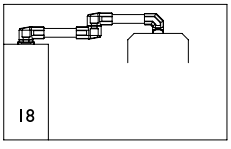
Description	Qty.	Catalog Number
Set up joint	1	CCS2SJLG
Intermediate joint	1	CCS2IJLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799183

16 AND 17

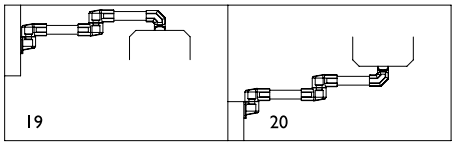
Description	Qty.	Catalog Number
Wall Joint (horizontal)	1	CCS2WJHLG
Intermediate joint	1	CCS2IJLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG



87799184

18

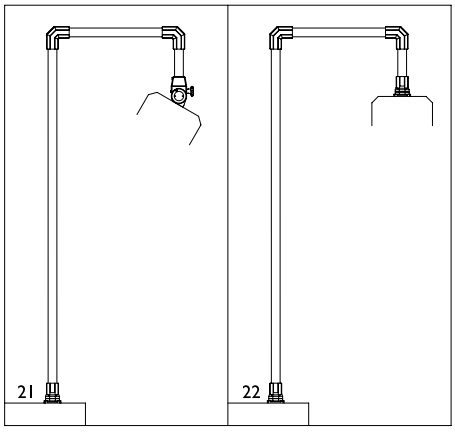
Description	Qty.	Catalog Number
Set up joint	1	CCS2SJLG
Intermediate joint	1	CCS2IJLG
Flange elbow coupling or 90° Swivel tilt	1 1	CCS2FECLG CCS2ESTLG



87799185

19 AND 20

Description	Qty.	Catalog Number
Wall joint (horizontal)	1	CCS2WJHLG
Intermediate joint	1	CCS2IJLG
Flange elbow coupling or 90° Swivel tilt	1 1	CCS2FECLG CCS2ESTLG



C2802-C

21 AND 22

Description	Qty.	Catalog Number
Wall flange/base bracket	1	CCS2WFBLG
Heavy duty elbow	1	CCS2EHDLG
Flange coupling or Swivel tilt	1 1	CCS2FCLG CCS2STLG

Note to the Specifier:

1. Select pendant system sizing using the COMPACT Series 2 load capacity chart.
2. Tube catalog numbers are not included in configuration tables.

Notes

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SYSPEND 180-MAX SUSPENSION SYSTEM, TYPE 12

INDUSTRY STANDARDS

Maintains NEMA Type 12 and IEC IP55 enclosure rating when properly installed per Hoffman instructions.

APPLICATION

The SYSPEND 180-MAX is a modular enclosure suspension system designed for modern industrial aesthetics, excellent ergonomics and multiple component combinations. The easy-to-install components can be configured in a variety of ways to get the right combination for any application. At 3.3 ft. (1 m) the system supports up to 180 lb. (81.6 kg). Recommended for use with CC2000, CC4000, and CONCEPT HMI enclosures.

FEATURES

- System supports up to 180 lb. (82 kg) and allows operators to easily move controls in and out of position
- Multiple modular components available to provide ergonomic, fatigue-free operation
- Clean lines and smooth transitions between tubes and system components provide attractive aesthetics and allow for ease of cleaning
- Tubing provides structural integrity and acts as equipment wiring conduit
- Secure attachment with sixfold positive connection between tubes and components along with recessed mounting areas in components; no additional safety drilling required
- Secure connections and easy adjustment of system alignment using tube setscrews coated with thread sealer
- System design allows for user friendly readjustment and leveling without disassembling the complete system or additional kits
- Multiple tube lengths offer system design versatility
- Heavy-duty bearings in all movable joints for convenient, smooth operation and enhanced durability to withstand stresses of repeated use
- Variable torque adjustment available for all rotating components; general adjustment at bearing with locking handle adjustment on enclosure couplings
- Panel couplings allow for connection at the rear of displays or monitors with VESA mounting
- System can be combined with the SYSPEND 281-MAX using the Reduction Elbow to achieve a higher load rating

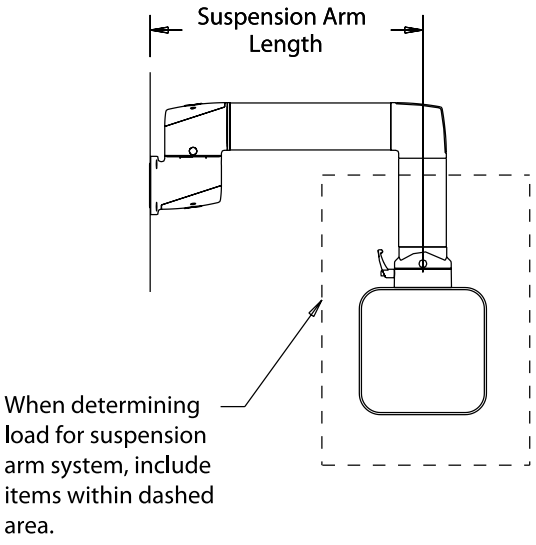
SPECIFICATIONS

- Anodized aluminum tubes
- Choice of RAL 9005 black or RAL 7035 light-gray die-cast aluminum components
- RAL 9006 white aluminum cable access caps
- Oil-resistant neoprene gaskets

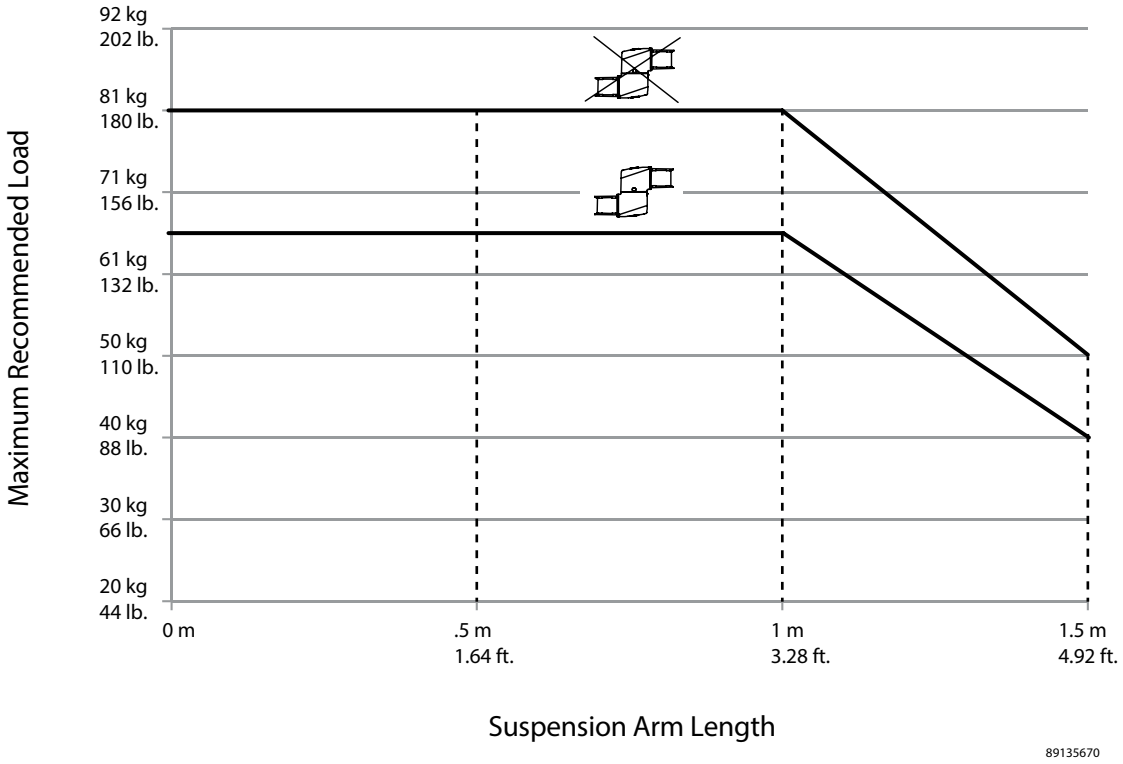
SYSTEM LOAD CAPACITY

The SYSPEND 180-MAX load graph is the result of load capacity tests. Please contact Hoffman for specific application information.

Load Diagram



Load Diagram for Static Load Capacity



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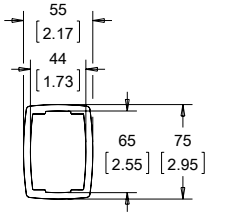
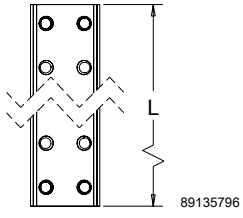
TUBES

Aluminum tubes provide structural integrity and act as conduit for equipment wiring. Tubes attach to system components with 6 setscrews on each end of the tube. Setscrews are provided with system couplings, not the tubes. Setscrews allow for easy adjustment and leveling of the system. Setscrews are provided with thread sealer providing secure connections. Available in 6 standard lengths ranging from 250 mm (9.84) to 1500 mm (59.05). Tubes 750 mm (29.53) and longer include drilling template to assist with drilling and tapping the holes when tube is cut to length.

BULLETIN: CS5

Catalog Number	Color	L mm/in.	Weight (lb.)	Weight (kg)
S1MT250	Anodized	250 9.84	1.75	.79
S1MT500	Anodized	500 19.68	3.50	1.59
S1MT750	Anodized	750 29.53	5.25	2.38
S1MT1000	Anodized	1000 39.37	7.00	3.18
S1MT1250	Anodized	1250 49.21	8.75	3.97
S1MT1500	Anodized	1500 59.05	10.50	4.76

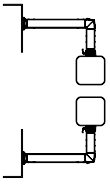




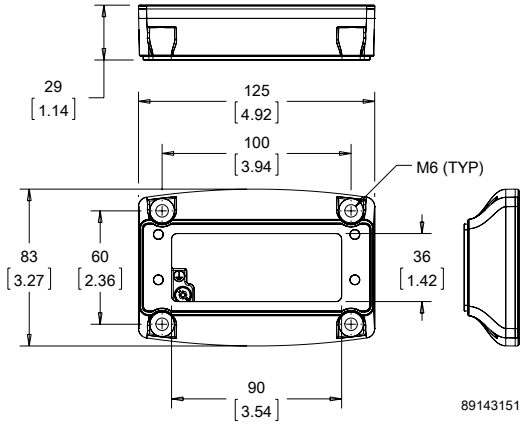
NARROW ADAPTER

The Narrow Adapter can be attached to the Flange Coupling and Flange Elbow Coupling to create a narrower connection to an enclosure. Specifically designed for use with the SYSPEND ALUMINUM HMI Enclosures that have 66mm of usable space. Does not inhibit coupling functionality. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and mounting hardware.

BULLETIN: CS5



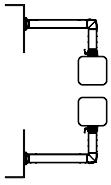
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MA	RAL 9005, Black	0.5	0.25
S1MAG	RAL 7035, Light Gray	0.5	0.25



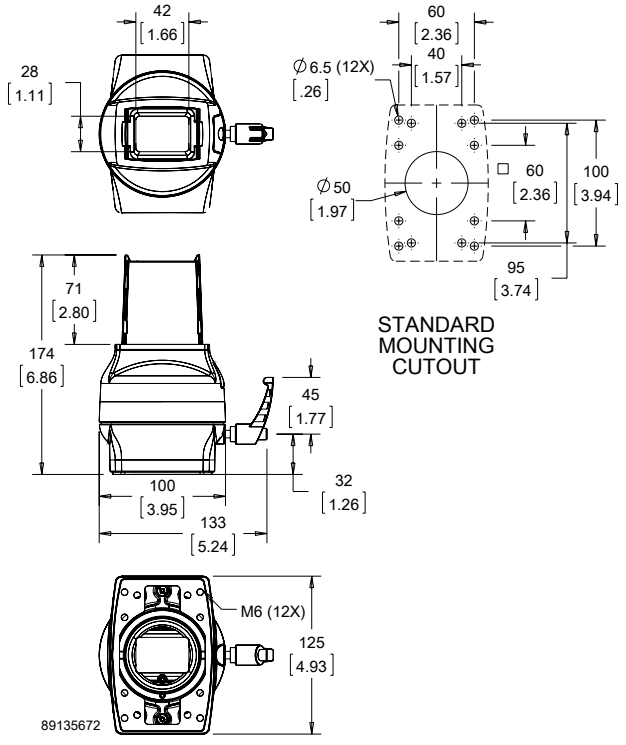
FLANGE COUPLING

The flange coupling attaches a tube to the enclosure, enabling 300-degree enclosure rotation and can be locked into a given position. The flange coupling has a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MFC	RAL 9005, Black	3.50	1.59
S1MFCG	RAL 7035, Light Gray	3.50	1.59

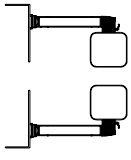


STANDARD MOUNTING CUTOUT

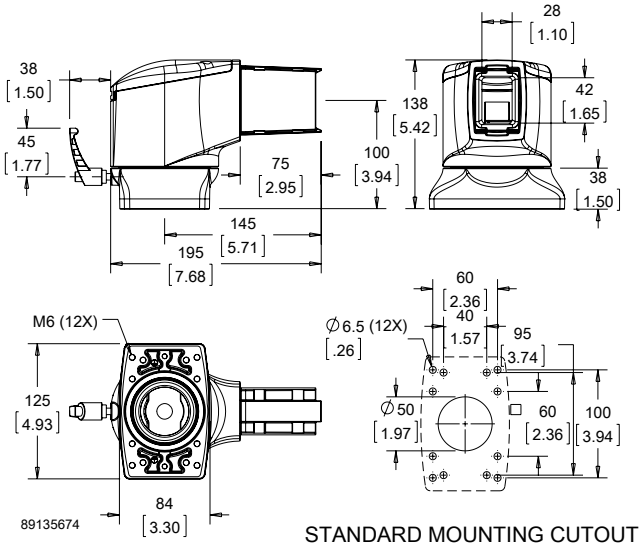
FLANGE ELBOW COUPLING

The flange elbow coupling attaches directly to the enclosure for applications where a vertical tube is not required. It enables the enclosure to rotate 300 degrees and can be locked into a given position. The flange elbow coupling has a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MFEC	RAL 9005, Black	4.50	2.04
S1MFECG	RAL 7035, Light Gray	4.50	2.04



STANDARD MOUNTING CUTOUT

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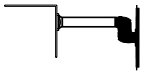
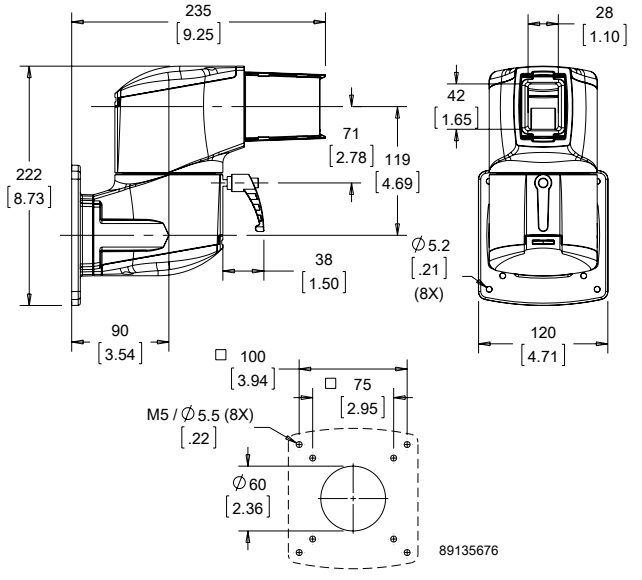
HORIZONTAL PANEL COUPLING

The horizontal panel coupling mounts a horizontal tube to the back of an enclosure or screen using Video Electronics Standards Association (VESA) mounting. The coupling has mounting holes drilled for standard VESA 75 and 100 flange sizes. It enables the enclosure to rotate 300 degrees and can be locked into a given position. The horizontal panel coupling has a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MPCH	RAL 9005, Black	6.50	2.95
S1MPCHG	RAL 7035, Light Gray	6.50	2.95

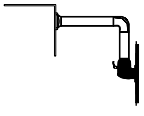


STANDARD MOUNTING CUTOUT

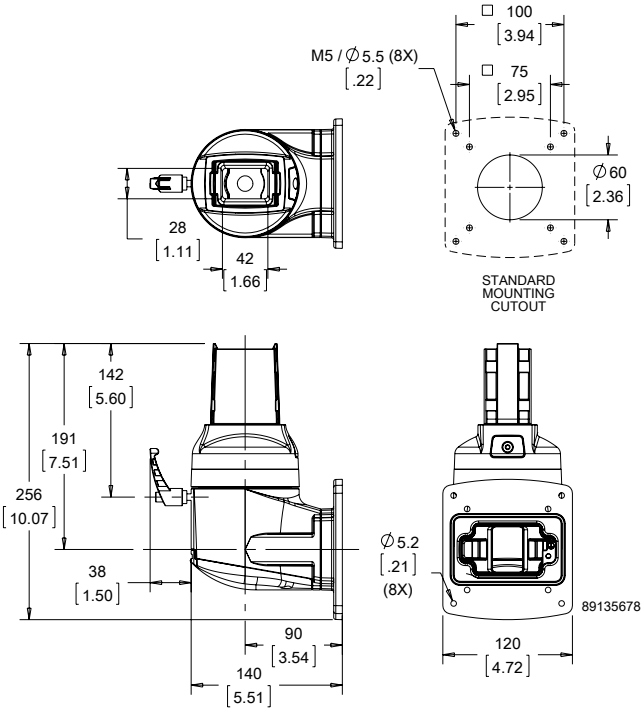
VERTICAL PANEL COUPLING

The vertical panel coupling mounts a vertical tube to the back of an enclosure or screen using Video Electronics Standards Association (VESA) mounting. The coupling has mounting holes drilled for standard VESA 75 and 100 flange sizes. It enables the enclosure to rotate 300 degrees and can be locked into a given position. The vertical panel coupling has a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MPCV	RAL 9005, Black	5.50	2.49
S1MPCVG	RAL 7035, Light Gray	5.50	2.49



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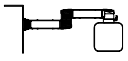
7

INTERMEDIATE JOINT

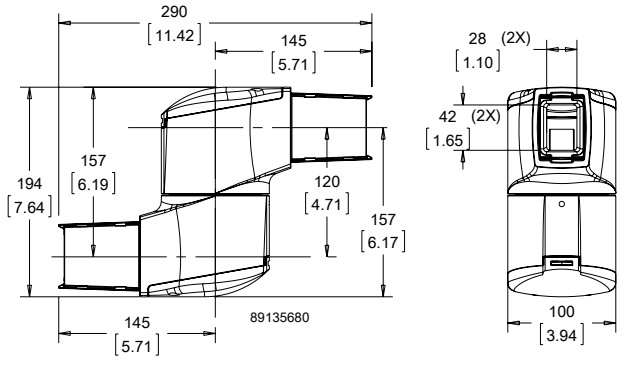
Use an intermediate joint to join two horizontal tubes together for a longer length. The arm can be rotated 300 degrees. Includes safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews.

Use of the intermediate joint reduces the system load rating capacity to 146 lb. (66 kg) at 3.3 ft. (1 m).

BULLETIN: CS5



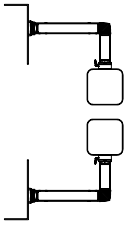
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MIJ	RAL 9005, Black	6.00	2.72
S1MIJG	RAL 7035, Light Gray	6.00	2.72



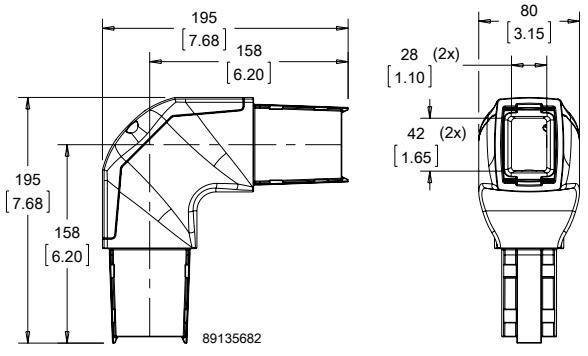
ELBOW

The elbow provides a 90-degree bend in the suspension system. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews.

BULLETIN: CS5



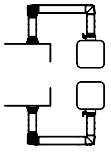
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1ME	RAL 9005, Black	2.75	1.25
S1MEG	RAL 7035, Light Gray	2.75	1.25



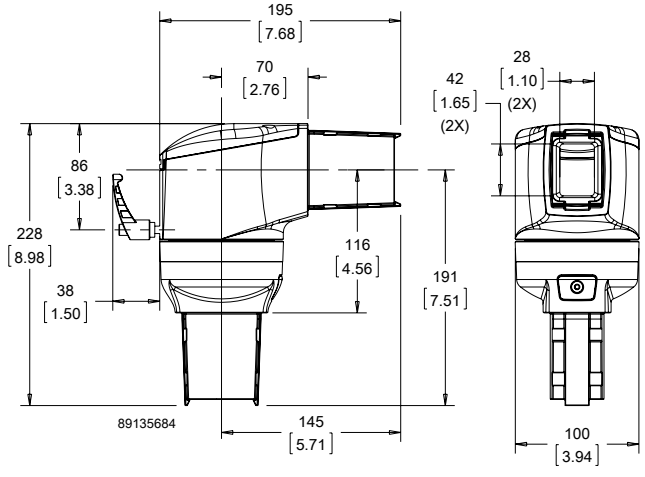
ROTATABLE ELBOW

The rotatable elbow provides a 90-degree bend in the suspension system and allows the vertical tube to rotate 300 degrees. Includes safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MER	RAL 9005, Black	5.00	2.27
S1MERG	RAL 7035, Light Gray	5.00	2.27



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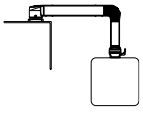
REDUCTION ELBOW

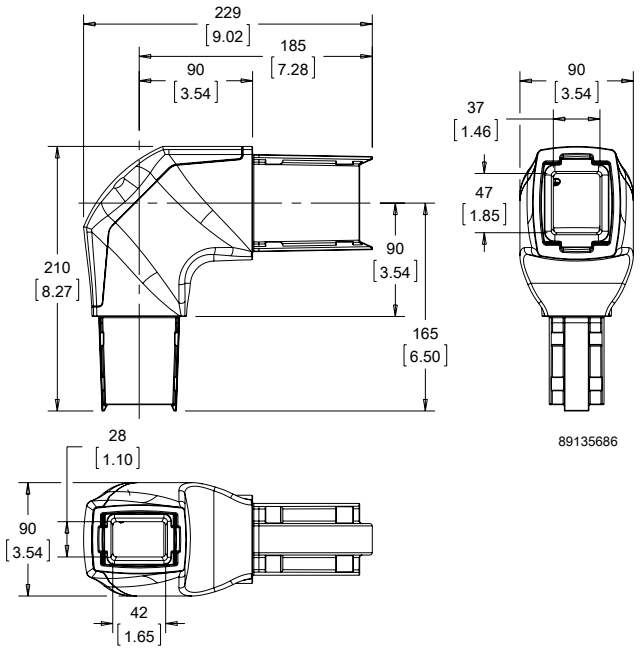
The reduction elbow provides a 90-degree bend in the suspension system between the horizontal tube and base connection of the SYSPEND 281-MAX system and the vertical components of the SYSPEND 180-MAX system. Die-cast aluminum construction. Available in RAL 9005 black finish only. Includes installation instructions, gaskets, and tube setscrews.

Use of the reduction elbow with the SYSPEND 281-MAX base and tube increases the system load rating to 281 lb. (127 kg) at 3.3 ft. (1 m).

BULLETIN: CS5



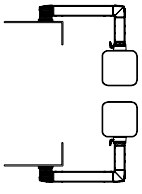
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MRE	RAL 9005, Black	4.00	1.81



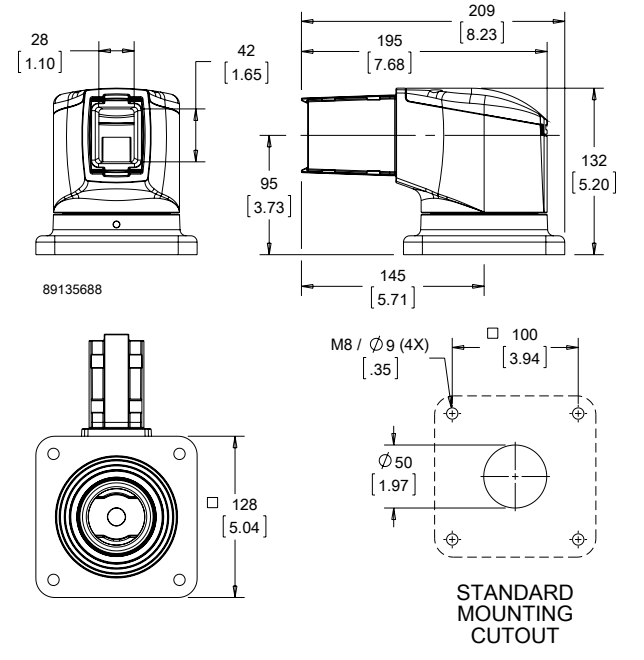
SET-UP JOINT

The set-up joint mounts the suspension system to a horizontal surface. The arm can be rotated 300 degrees. Includes a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS5



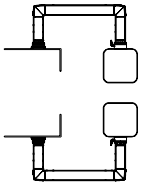
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MSJ	RAL 9005, Black	4.75	2.15
S1MSJG	RAL 7035, Light Gray	4.75	2.15



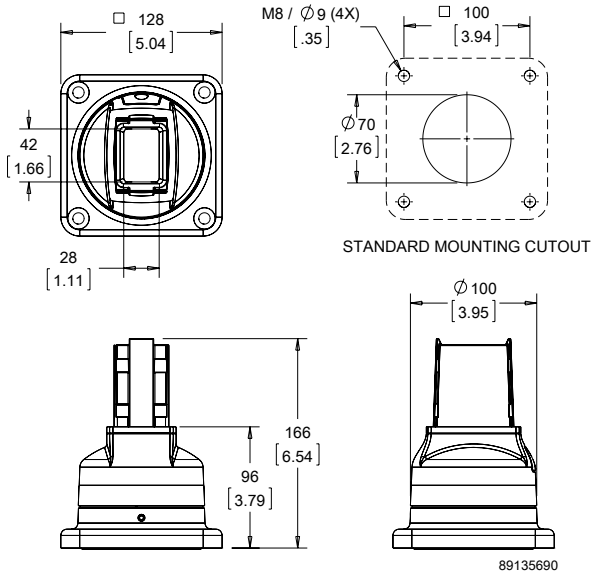
ROTARY BASE

The rotatable base bracket allows the entire suspension system to rotate at the point of attachment on a horizontal surface. The arm can be rotated 300 degrees. Includes a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS5



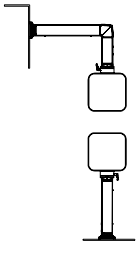
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MTBB	RAL 9005, Black	3.75	1.70
S1MTBBG	RAL 7035, Light Gray	3.75	1.70



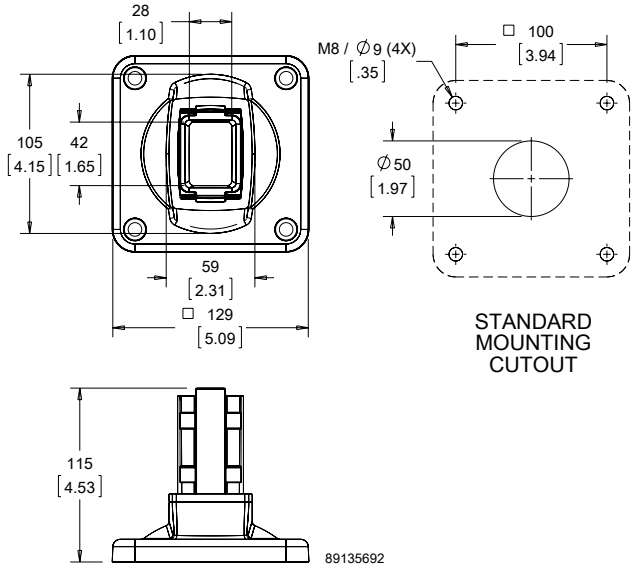
WALL FLANGE

The wall flange allows for fixed positioning on a horizontal or vertical surface when rotation is not needed. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS5



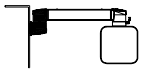
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MWF	RAL 9005, Black	2.00	.91
S1MWFG	RAL 7035, Light Gray	2.00	.91



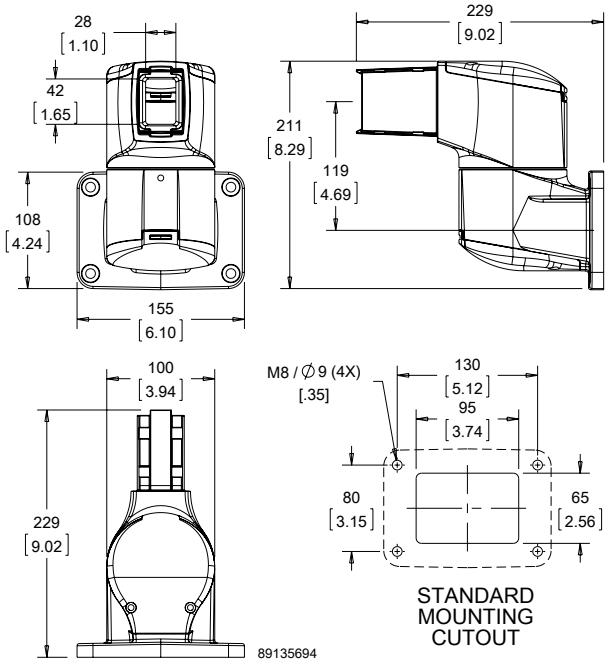
HORIZONTAL WALL JOINT

The horizontal wall joint mounts the suspension system to a vertical surface, allowing the tube to extend horizontally. The arm can be rotated 300 degrees. Includes a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS5



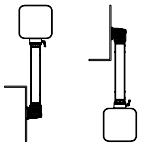
Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MWJH	RAL 9005, Black	6.50	2.95
S1MWJHG	RAL 7035, Light Gray	6.50	2.95



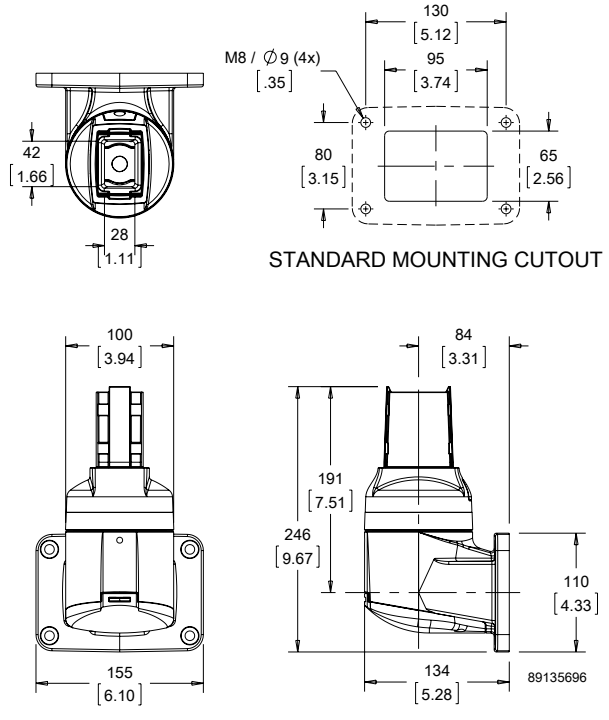
VERTICAL WALL JOINT

The vertical wall joint mounts the suspension system to a vertical surface, allowing the tube to extend vertically. The arm can be rotated 300 degrees. Includes a safety stop and maintenance-free bearings. Die-cast aluminum construction. Choice of RAL 9005 black or RAL 7035 light gray finish. Includes installation instructions, gaskets, and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS5



Catalog Number	Color	Weight (lb.)	Weight (kg)
S1MWJV	RAL 9005, Black	5.50	2.49
S1MWJVG	RAL 7035, Light Gray	5.50	2.49



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7

ROTATION LIMITER

Rotation limiters are a retrofit option to limit the rotation of couplings and joints which normally rotate 300 degrees. Each block limits rotation 30 degrees. Kit includes six rotation limiting blocks and installation instructions.

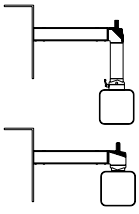
BULLETIN: CS5

Catalog Number	Qty.
S1MRL	6

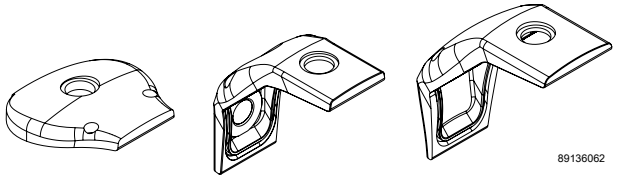
SIGNAL LIGHT ADAPTERS

The signal light adapters are available in either round, elbow and reduction elbow cover versions and provide a means for attaching signal lights. Signal lights are not included. Aluminum caps are finished in RAL 9006 white aluminum powder paint. Includes caps, gasket, attachment hardware, and post.

BULLETIN: CS5



Catalog Number	Description	Color	Weight (lb.)	Weight (kg)
S1MSLAR	Round Cap	RAL 9006, White Aluminum	.53	.24
S1MSLAA	Angled Cap	RAL 9006, White Aluminum	.58	.26
S1MSLARE	Reduction Elbow Cap	RAL 9006, White Aluminum	.74	.34



S1MSLAR S1MSLAA S1MSLARE

REPLACEMENT CAPS

Replacement Caps for SYSPEND 180-MAX couplings are available in either round, elbow or reduction elbow versions. The hardware is included. The caps are aluminum finished in RAL 9006 white aluminum powder paint.

BULLETIN: CS5

Catalog Number	Description	Color	Weight (lb.)	Weight (kg)
S1MRCRK	Round Cap	RAL 9006 White Aluminum	.40	.18
S1MRCAK	Angled Cap	RAL 9006 White Aluminum	.40	.18
S1MRCREK	Reduction Elbow Cap	RAL 9006 White Aluminum	.40	.18

REPLACEMENT HARDWARE KIT

The replacement hardware kit includes spare parts necessary within the SYSPEND 180-MAX system.
Kit Includes:

- 1 lock actuator
- 1 lever clamp
- 1 coupling gasket
- 2 flat small gaskets
- 4 M6 allen head screws
- 4 M6 lock washers
- 12 M10 headless setscrews
- 1 flat large gasket
- 6 M12 headless setscrews
- .5 meters of 3mm cord gasket

BULLETIN: CS5

Catalog Number	Weight (lb.)	Weight (kg)
S1MRHK	.15	.07

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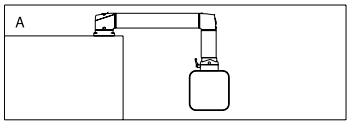
SYSPEND 180-MAX SUSPENSION SYSTEM CONFIGURATIONS

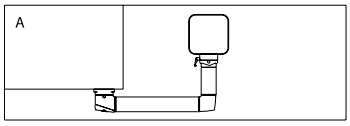
Note to Specifier:

Select suspension system sizing using the SYSPEND 180-MAX load capacity chart.

1. Tube catalog numbers are not included in configuration tables.
2. The catalog numbers for both RAL 9005 black and RAL 7035 light gray are given. Please select one catalog number per line, making sure to keep the color choice consistent throughout the system for a cohesive appearance.
3. There are multiple configurations possible with many of the options shown. Components can be inverted. For illustration purposes, configuration A shows how components can be inverted.



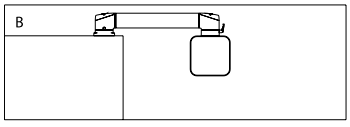
87956903



87956961

A

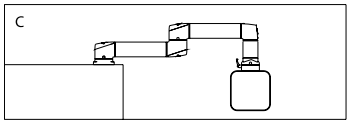
Description	Qty.	Catalog Number
Set-up Joint	1	S1MSJ S1MSJG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956965

B

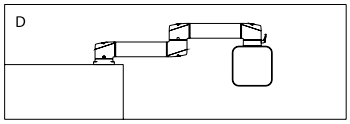
Description	Qty.	Catalog Number
Set-up Joint	1	S1MSJ S1MSJG
Flange Elbow Coupling	1	S1MFEC S1MFECG



87956966

C

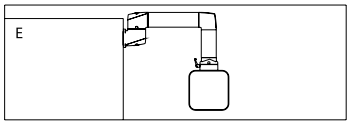
Description	Qty.	Catalog Number
Set-up Joint	1	S1MSJ S1MSJG
Intermediate Joint	1	S1MIJ S1MIJG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956967

D

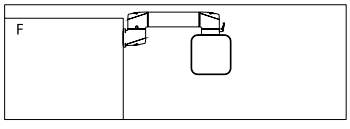
Description	Qty.	Catalog Number
Set-up Joint	1	S1MSJ S1MSJG
Intermediate Joint	1	S1MIJ S1MIJG
Flange Elbow Coupling	1	S1MFEC S1MFECG



87956969

E

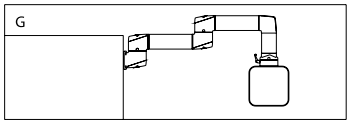
Description	Qty.	Catalog Number
Horizontal Wall Joint	1	S1MWJH S1MWJHG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956970

F

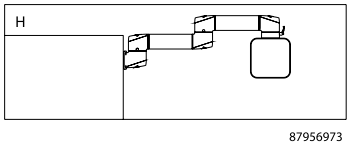
Description	Qty.	Catalog Number
Horizontal Wall Joint	1	S1MWJH S1MWJHG
Flange Elbow Coupling	1	S1MFEC S1MFECG



87956971

G

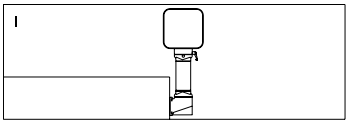
Description	Qty.	Catalog Number
Horizontal Wall Joint	1	S1MWJH S1MWJHG
Intermediate Joint	1	S1MIJ S1MIJG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956973

H

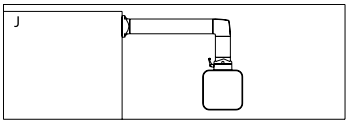
Description	Qty.	Catalog Number
Horizontal Wall Joint	1	S1MWJH S1MWJHG
Intermediate Joint	1	S1MIJ S1MIJG
Flange Elbow Coupling	1	S1MFEC S1MFECG



87956974

I

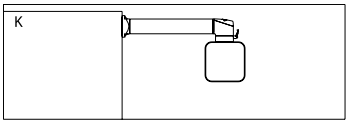
Description	Qty.	Catalog Number
Vertical Wall Joint	1	S1MVWJ S1MVWJG
Flange Coupling	1	S1MFC S1MFCG



87956975

J

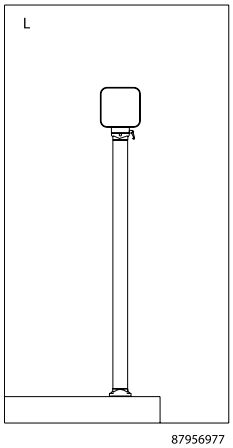
Description	Qty.	Catalog Number
Wall Flange	1	S1MWF S1MWFG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956976

K

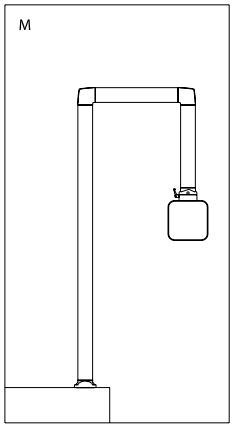
Description	Qty.	Catalog Number
Wall Flange	1	S1MWF S1MWFG
Flange Elbow Coupling	1	S1MFEC S1MFECG



87956977

L

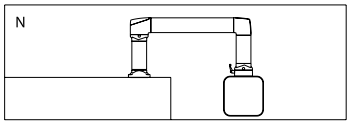
Description	Qty.	Catalog Number
Wall Flange	1	S1MWF S1MWFG
Flange Coupling	1	S1MFC S1MFCG



87956979

M

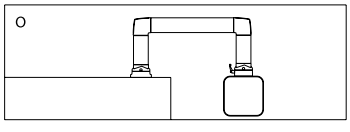
Description	Qty.	Catalog Number
Wall Flange	1	S1MWF S1MWFG
Elbow	2	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956980

N

Description	Qty.	Catalog Number
Wall Flange	1	S1MWF S1MWFG
Rotatable Elbow	1	S1MER S1MERG
Elbow	1	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG



87956981

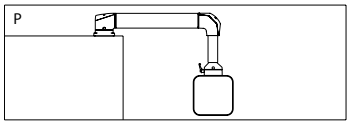
O

Description	Qty.	Catalog Number
Rotary Base	1	S1MTBB S1MTBBG
Elbow	2	S1ME S1MEG
Flange Coupling	1	S1MFC S1MFCG

Note to Specifier:

The Following Images show how you can combine the SYSPEND 281-MAX and SYSPEND 180-MAX systems using the Reduction Elbow. The Length of the system will need to come from the SYSPEND 281-MAX and the connection to the enclosure will be the SYSPEND 180-MAX. The following charts will include the number of tubes necessary for each system as well as the couplings.

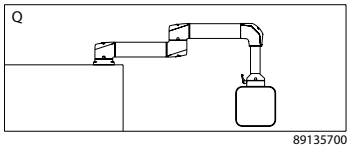
Please note that all of the possible length options for tubes are given for your reference and only select the total number of parts listed in the table Qty. column.



89135699

P

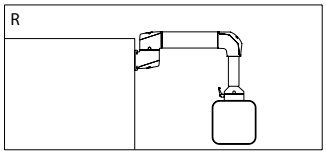
Description	Qty.	Catalog Number
281-MAX Set-up Joint	1	S2MSJ
281-MAX Tube	1	S2MT250 S2MT500 S2MT750 S2MT1000 S2MT1250 S2MT1500 S2MT1750 S2MT2000
281-MAX to 180-MAX Reduction Elbow	1	S1MRE
180-MAX Tube	1	S1MT250 S1MT500 S1MT750 S1MT1000 S1MT1250 S1MT1500
180-MAX Flange Coupling	1	S1MFC



89135700

Q

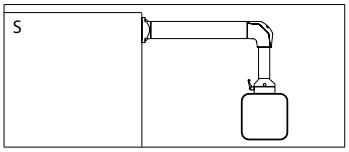
Description	Qty.	Catalog Number
281-MAX Set-up Joint	1	S2MSJ
281-MAX Tubes	2	S2MT250 S2MT500 S2MT750 S2MT1000 S2MT1250 S2MT1500 S2MT1750 S2MT2000
281-MAX Intermediate Joint	1	S2MIJ
281-MAX to 180-MAX Reduction Elbow	1	S1MRE
180-MAX Tube	1	S1MT250 S1MT500 S1MT750 S1MT1000 S1MT1250 S1MT1500
180-MAX Flange Coupling	1	S1MFC



89135701

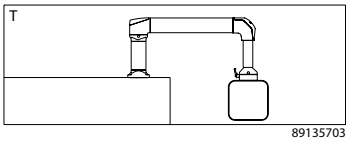
R

Description	Qty.	Catalog Number
281-MAX Horizontal Wall Joint	1	S2MWJH
281-MAX Tube	1	S2MT250 S2MT500 S2MT750 S2MT1000 S2MT1250 S2MT1500 S2MT1750 S2MT2000
281-MAX to 180-MAX Reduction Elbow	1	S1MRE
180-MAX Tube	1	S1MT250 S1MT500 S1MT750 S1MT1000 S1MT1250 S1MT1500
180-MAX Flange Coupling	1	S1MFC



S

Description	Qty.	Catalog Number
281-MAX Wall Flange	1	S2MWF
281-MAX Tube	1	S2MT250 S2MT500 S2MT750 S2MT1000 S2MT1250 S2MT1500 S2MT1750 S2MT2000
281-MAX to 180-MAX Reduction Elbow	1	S1MRE
180-MAX Tube	1	S1MT250 S1MT500 S1MT750 S1MT1000 S1MT1250 S1MT1500
180-MAX Flange Coupling	1	S1MFC



T

Description	Qty.	Catalog Number
281-MAX Wall Flange	1	S2MWF
281-MAX Rotatable Elbow	1	S2MER
281-MAX Tubes	2	S2MT250 S2MT500 S2MT750 S2MT1000 S2MT1250 S2MT1500 S2MT1750 S2MT2000
281-MAX to 180-MAX Reduction Elbow	1	S1MRE
180-MAX Tube	1	S1MT250 S1MT500 S1MT750 S1MT1000 S1MT1250 S1MT1500
180-MAX Flange Coupling	1	S1MFC

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SYSPEND 281-MAX SUSPENSION SYSTEM, TYPE 12

INDUSTRY STANDARDS

Maintains NEMA Type 12 and IEC IP55 enclosure rating when properly installed per Hoffman instructions.

APPLICATION

Variability in system configuration, advanced design and ease of assembly are key requirements when specifying an enclosure suspension system. The SYSPEND 281-MAX features a modern industrial design, excellent ergonomics and multiple component combinations for an innovative system solution on a modular platform. At 3.3 ft. (1 m) the system supports up to 281 lb. (127.7 kg). Recommended for use with CC2000, CC4000 and CONCEPT HMI enclosures.

FEATURES

- System supports up to 281 lb. and allows operators to easily move controls into and out of position
- Multiple modular components available to provide ergonomic, fatigue-free operation
- Clean lines and smooth transitions between tubes and system components provide attractive aesthetics and allow for ease of cleaning
- Tubing provides structural integrity and acts as equipment wiring conduit
- Vertical motion pedestal tubes provide versatile, height-adjustable solutions for pedestal mounting
- Secure attachment with sixfold positive connection between tubes and components along with recessed mounting areas in components; no additional safety drilling required
- Secure connections and easy adjustment of system alignment using tube setscrews, coated with LOCTITE, that seal threaded holes
- System design allows for user friendly readjustment at any time without disassembling the complete system
- Cable access covers available on all components
- Multiple tube lengths offer system design versatility
- Heavy-duty bearings in all movable joints for convenient, smooth operation and enhanced durability to withstand stresses of repeated use
- Variable torque adjustment available for all rotating components; general adjustment at the bearing with locking handle adjustment on enclosure couplings

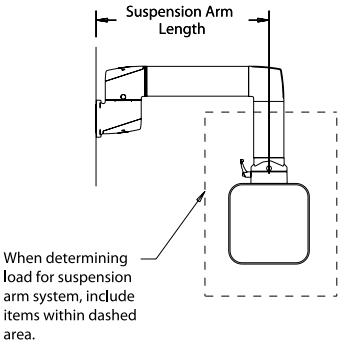
SPECIFICATIONS

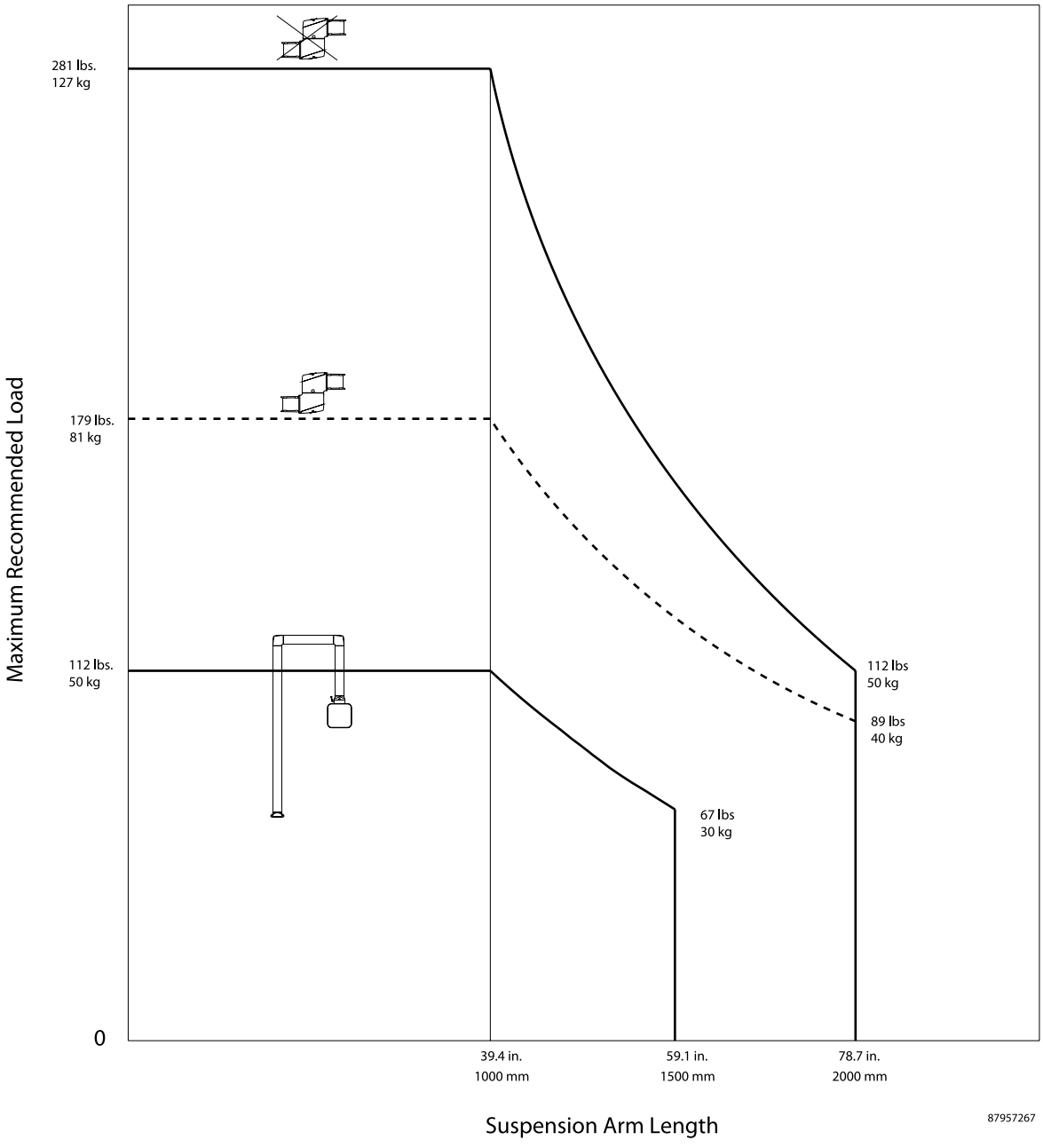
- Silver anodized aluminum tubes
- RAL 9005 black die-cast aluminum components
- Gray composite cable access covers
- Oil-resistant neoprene gaskets

SYSTEM LOAD CAPACITY

The SYSPEND 281-MAX load graph is the result of load capacity tests. Please contact Hoffman for specific application information.

Load Diagram





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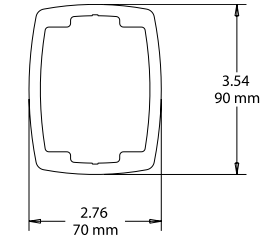
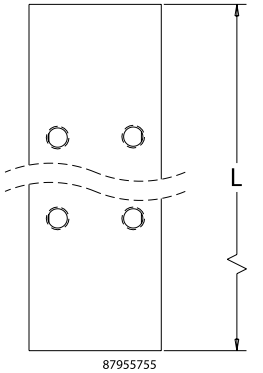
TUBES

Angled aluminum tubes provide structural integrity and act as conduit for equipment wiring. Tubes attach to system components with 6 setscrews on each end of the tube. (Setscrews are provided with the mating system components, not the tubes.) Setscrews allow for easy adjustment and leveling of the system. Setscrews are provided with LOCTITE to seal threaded holes and provide secure connections. Available in 8 standard lengths ranging from 250 mm to 2000 mm. Tubes 750 mm and longer include drilling template to assist with drilling and tapping the holes when the tube is cut to length.

BULLETIN: CS4

Catalog Number	L (mm)	L (in.)	Weight
S2MT250	250	9.84	2.8 lb.
S2MT500	500	19.68	5.4 lb.
S2MT750	750	29.53	8.2 lb.
S2MT1000	1000	39.37	11.0 lb.
S2MT1250	1250	49.21	13.7 lb.
S2MT1500	1500	59.05	16.5 lb.
S2MT1750	1750	68.90	19.3 lb.
S2MT2000	2000	78.74	22.0 lb.



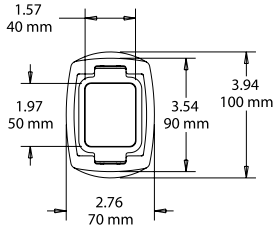


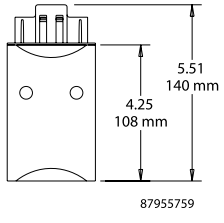
TUBE ADAPTER

Use a Tube Adapter when the tube is cut to length and it is not desirable to drill and tap new holes in the tube. Adapter attaches to the tube with internal setscrews and provides mounting holes at the end where the tube was cut. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gasket and hardware for attaching to the tube.

BULLETIN: CS4

Catalog Number	Weight
S2MTA	1.6 lb.

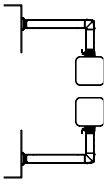




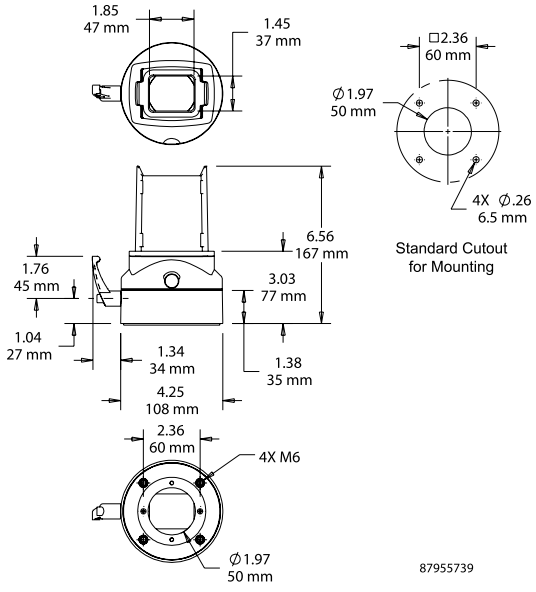
FLANGE COUPLING

Flange Coupling attaches a tube to the enclosure, enabling 300-degree enclosure rotation. Enclosure can be locked in position. Flange Coupling has safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS4



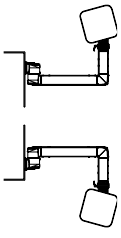
Catalog Number	Weight
S2MFC	3.2 lb.



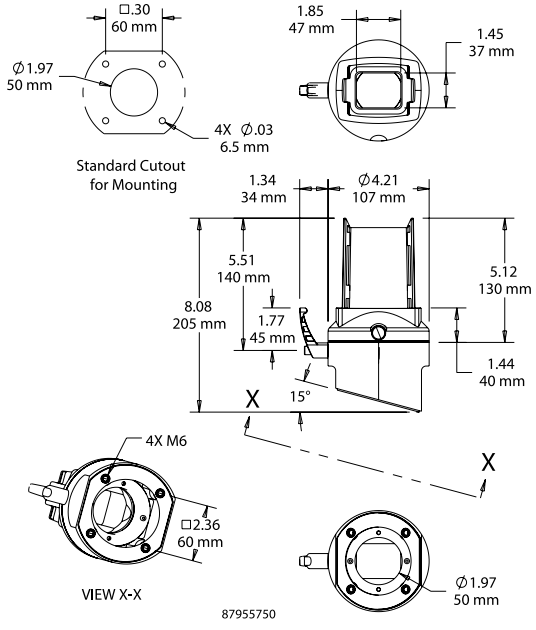
ANGLED COUPLING TILTED BACK

Use Angled Coupling Tilted Backward to mount enclosure at a 15-degree backward angle. Enclosure can be rotated 300 degrees and locked in position. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS4



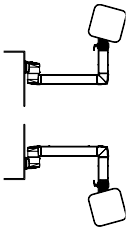
Catalog Number	Weight
S2MACB	3.7 lb.



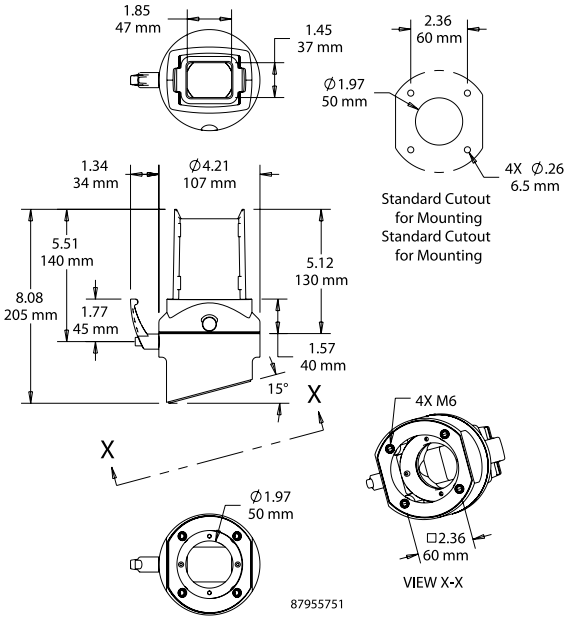
ANGLED COUPLING TILTED FORWARD

Use Angled Coupling Tilted Forward to mount enclosure at a 15-degree forward angle. Enclosure can be rotated 300 degrees and locked in position. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS4



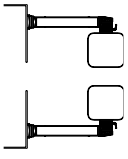
Catalog Number	Weight
S2MACF	3.7 lb.



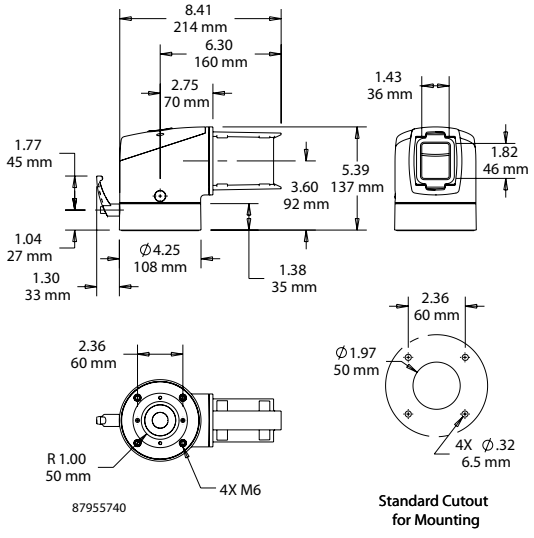
FLANGE ELBOW COUPLING

Flange Elbow Coupling attaches directly to the enclosure for applications where a vertical tube is not required. Enables enclosure to be rotated 300 degrees and locked in position. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes cable access cover, installation instructions, gaskets, tube setscrews and enclosure mounting hardware.

BULLETIN: CS4



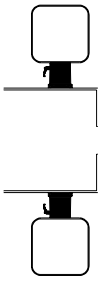
Catalog Number	Weight
S2MFEC	4.6 lb.



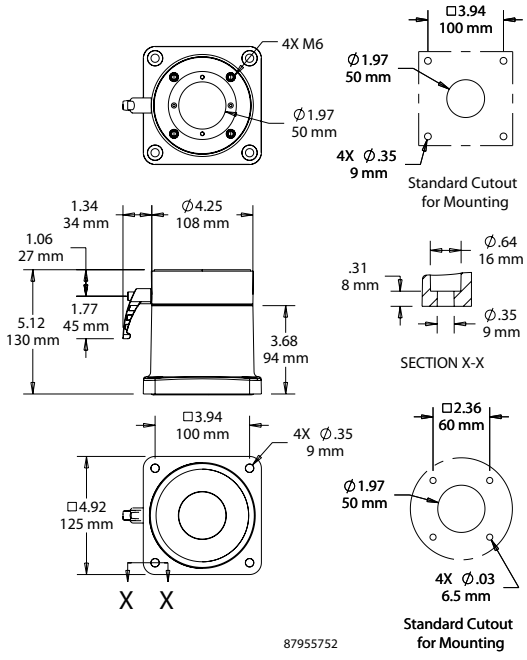
BASE COUPLING

Base Coupling attaches the enclosure directly to a horizontal surface. Enclosure can be rotated 300 degrees and locked in position. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets and enclosure mounting hardware. Surface mounting hardware not provided.

BULLETIN: CS4



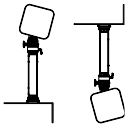
Catalog Number	Weight
S2MBC	4.7 lb.



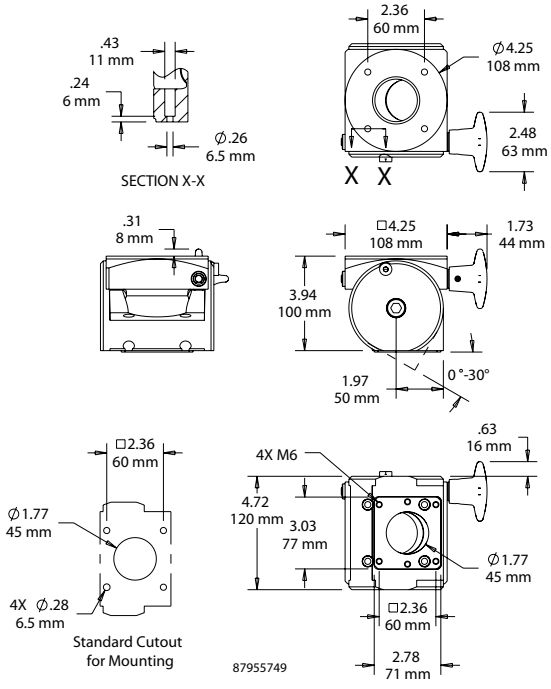
ANGLED ADAPTER, STEPLESS 30 DEGREES

Angled Adapter must be used in conjunction with a coupling (not compatible with S2MFC48). Enclosure angle can be adjusted forward or backward up to 30 degrees. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gasket and enclosure mounting hardware.
Maximum load bearing capacity is 67 lb. (30.4 kg).

BULLETIN: CS4



Catalog Number	Weight
S2MAA	4.1 lb.



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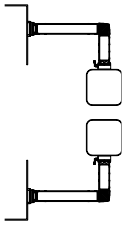
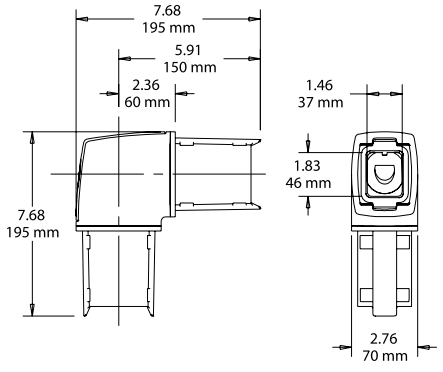
ELBOW

Elbow provides a 90-degree bend in the suspension system. RAL 9005 black finish. Die-cast aluminum construction. Includes removable cable access cover, installation instructions, gaskets and tube setscrews.

BULLETIN: CS4



Catalog Number	Weight
S2ME	3.7 lb.

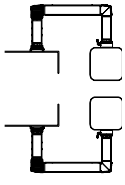


87955746

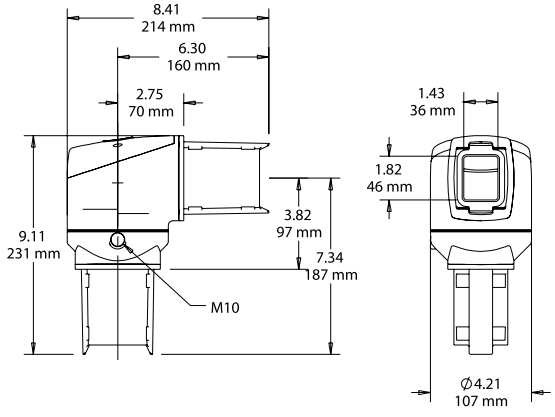
ROTATABLE ELBOW

Rotatable elbow provides a 90-degree bend in the suspension system and allows the vertical tube to rotate 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes removable cable access cover, installation instructions, gaskets and tube setscrews.

BULLETIN: CS4



Catalog Number	Weight
S2MER	5.4 lb.

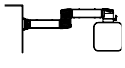


87955747

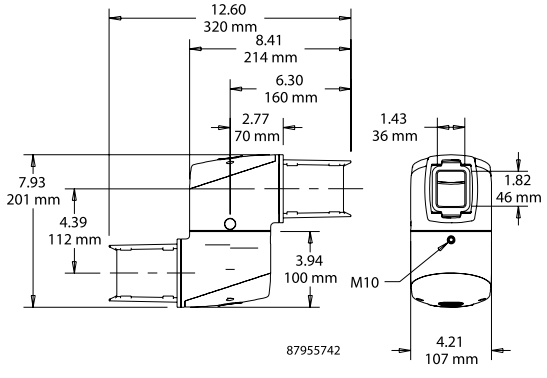
INTERMEDIATE JOINT

Use Intermediate Joint to join two horizontal tubes together for a longer run. Arm can be rotated or turned 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes two removable cable access covers, installation instructions, gaskets and tube setscrews.
Use of the Intermediate Joint reduces the system load capacity to 179 lb. (81.2 kg) at 3.3 ft. (1 m).

BULLETIN: CS4



Catalog Number	Weight
S2M1J	6.5 lb.

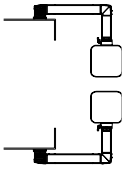


87955742

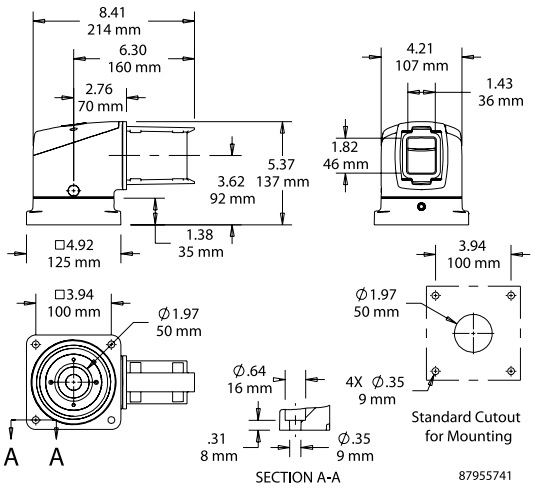
SET-UP JOINT

Set-Up Joint mounts suspension system to a horizontal surface. Arm can be rotated or turned 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes removable cable access cover, installation instructions, gaskets and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS4



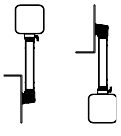
Catalog Number	Weight
S2MSJ	5.0 lb.



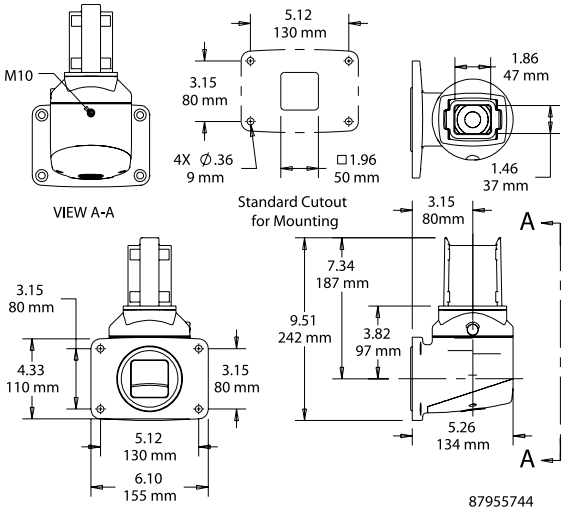
VERTICAL WALL JOINT

Vertical Wall Joint mounts suspension system to vertical surface and allows tube to extend vertically. Enables arm to be rotated or turned 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes removable cable access cover, installation instructions, gaskets and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS4



Catalog Number	Weight
S2MWJV	5.4 lb.



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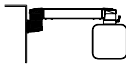
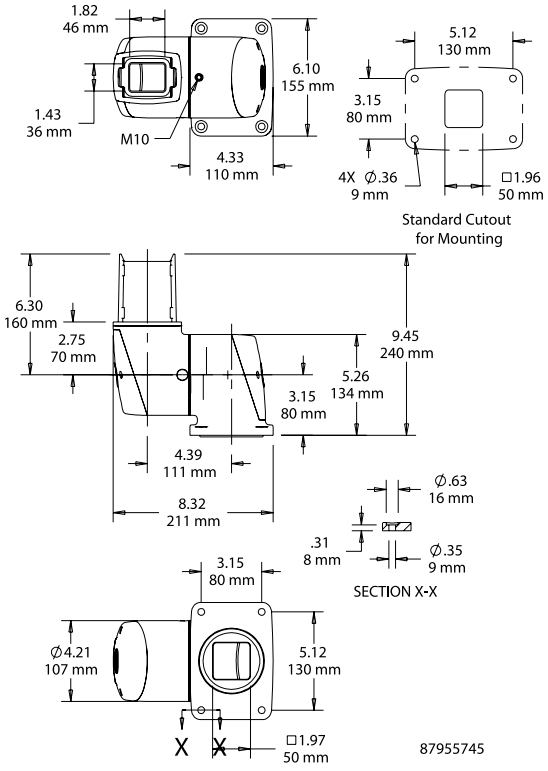
HORIZONTAL WALL JOINT

Horizontal Wall Joint mounts suspension system to vertical surface, allowing tube to extend horizontally. Arm can be rotated or turned 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes two removable cable access covers, installation instructions, gaskets and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS4



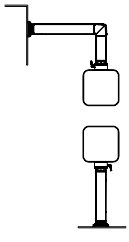
Catalog Number	Weight
S2MWJH	6.4 lb.



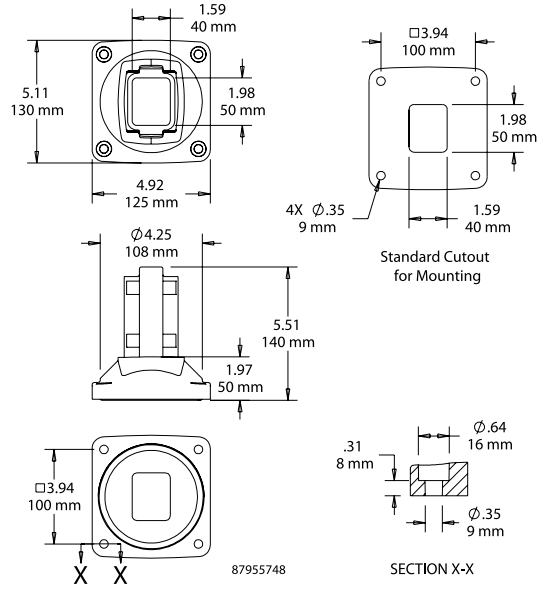
WALL FLANGE

Wall Flange allows for fixed positioning on a horizontal or vertical surface when rotation is not needed. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS4



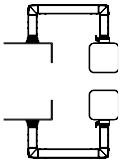
Catalog Number	Weight
S2MWF	2.8 lb.



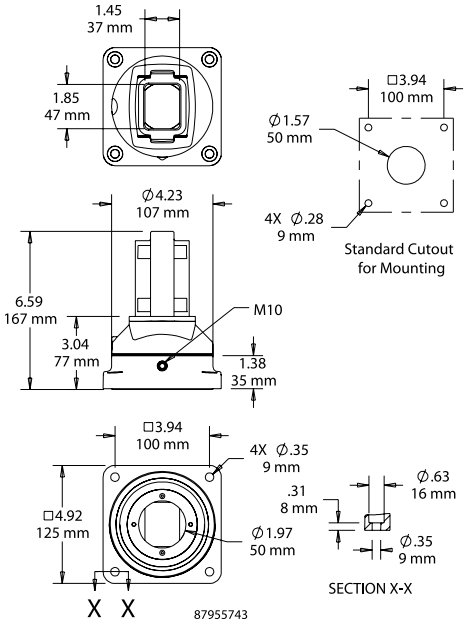
ROTARY BASE

Rotary Base allows the entire suspension system to rotate at the point of attachment on a horizontal surface. Arm can be rotated or turned 300 degrees. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets and tube setscrews. Surface mounting hardware not provided.

BULLETIN: CS4



Catalog Number	Weight
S2MRB	3.9 lb.



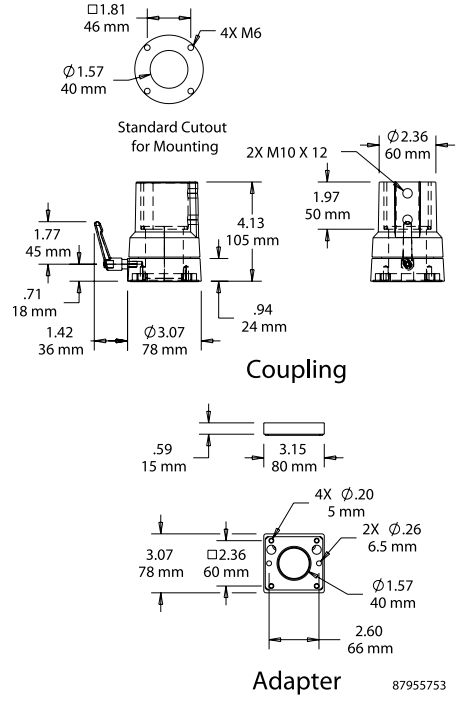
48-MM ROUND TUBE FLANGE COUPLING AND ADAPTER

Use Flange Coupling to attach the Vertical Motion Pedestal Tube to the enclosure. Enclosure can be rotated 300 degrees and locked in position. Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets and enclosure mounting hardware.

Coupling attaches to enclosure using a 48 x 48-mm hole pattern. An adapter is required to attach the coupling to a standard Hoffman HMI enclosure that uses a 60 x 60-mm hole pattern (i.e., required for attaching to CONCEPT HMI, CC2000, CC4000). Includes safety stop and maintenance-free bearing. RAL 9005 black finish. Die-cast aluminum construction. Includes installation instructions, gaskets and enclosure mounting hardware.

BULLETIN: CS4

Catalog Number	Description	Weight
S2MFC48	Flange Coupling (Requires use of S2MA48 for enclosure with 60 x 60-mm hole pattern)	3.9 lb.
S2MA48	Adapter	0.2 lb.



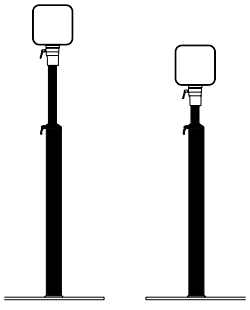
VERTICAL MOTION PEDESTAL TUBES

Height-adjustable tubes allow enclosure to be positioned at the optimal viewing height for different operators. Requires the 48-mm Round Tube Flange Coupling (S2MFC48) and Adapter (S2MA48) for attachment to Hoffman enclosures with a 60 x 60-mm hole pattern (i.e., required for attaching to CONCEPT HMI, CC2000, CC4000).

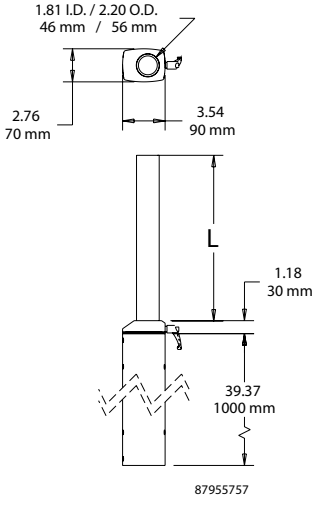
- Adjustable from 1130 mm (44.49 in.) to 1380 mm (54.33 in.) with internal gas springs
- Four models support loads ranging from 11 to 77 lb. (4.9 to 34.9 kg)
- Height is fixed in place at any position by locking handle
- Cables are separated from gas springs inside the tube
- Internal strain-relief for cables inside the tube
- Can be attached to Small Pedestal Base, Large Pedestal Base, Vertical Wall Joint, Wall Flange, Rotary Base, Elbow or Rotatable Elbow
- Aluminum construction

Tube cannot be inverted for overhead mounting on the enclosure.
The weight of the coupling, adapter plate, enclosure and internal components must be factored into the load when selecting a tube.

BULLETIN: CS4



Catalog Number	L Max. mm/in.	L Min. mm/in.	Load Capacity	Weight
S2M10VP22	350 13.78	100 3.94	11-22 lb.	15.5 lb.
S2M10VP37	350 13.78	100 3.94	22-37 lb.	15.5 lb.
S2M10VP57	350 13.78	100 3.94	37-57 lb.	15.5 lb.
S2M10VP77	350 13.78	100 3.94	57-77 lb.	15.5 lb.

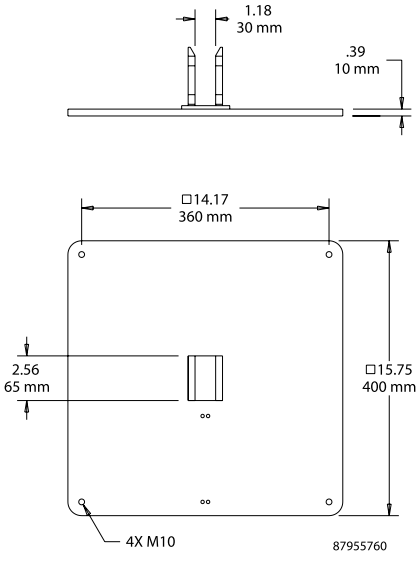


SMALL PEDESTAL BASE

Tubes attach directly to Small Pedestal Base. RAL 9005 black finish. Constructed from 3/8-in. thick steel plate. Includes installation instructions, cable ties and tube setscrews. Surface mounting hardware not provided. Compatible with accessory casters and levelers.
Supports loads per Load Rating Graph.

BULLETIN: CS4

Catalog Number	Weight
S2MPBS	29.1 lb.

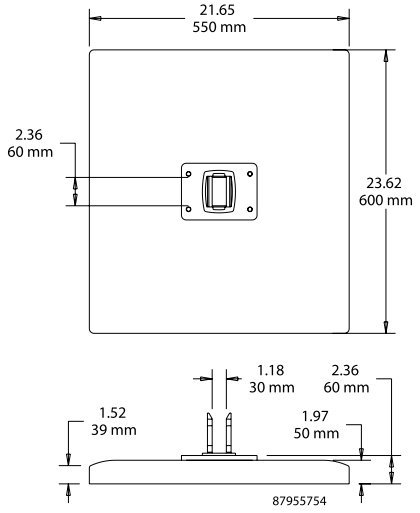


LARGE PEDESTAL BASE

Tubes attach directly to Large Pedestal Base. RAL 9005 black finish. Cast aluminum construction. Includes installation instructions and tube setscrews. Surface mounting hardware not provided. Compatible with accessory casters, levelers and bolt-down kit.
Supports loads per Load Rating Graph.

BULLETIN: CS4

Catalog Number	Weight
S2MPBL	25.7 lb.



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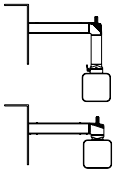
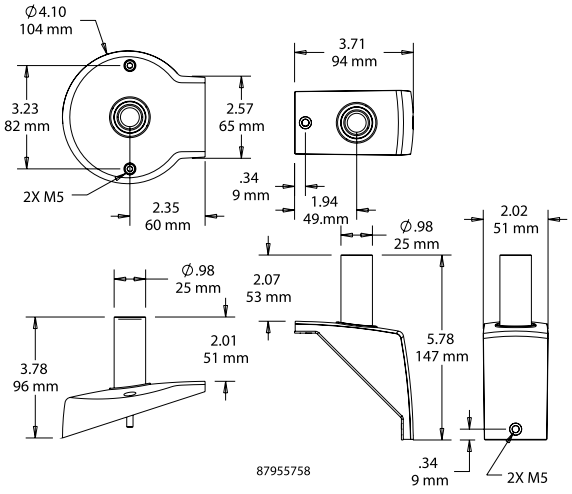
LIGHT SIGNAL ADAPTERS

Light Signal Adapters are available in either round or elbow cover versions and provide a means for attaching signal lights. Signal lights are not included. Gray composite cover caps include a gasket, attachment hardware and post and replace the caps provided with other system components.

BULLETIN: CS4



Catalog Number	Description	Weight
S2MLSAR	Round Cover	0.3 lb.
S2MLSAE	Rectangular Cover	0.3 lb.



ROTATION LIMITERS

Rotation limiters can be retro-fit on coupling and joint components and are adjustable in increments of 13.7 degrees. Limits rotation of couplings and joints which nornally rotate 300 degrees. Kit includes ten steel balls, plug and installation instructions.

BULLETIN: CS4

Catalog Number	Weight
S2MRL	0.1 lb.

TUBE HOLE PLUGS

Plastic hole plugs cover up the set screws in the tubes. Kit includes 50 hole plugs. Hole plugs are not needed to maintain the suspension system's NEMA Type 12 rating but provide an attractive smooth finish for the tube. Gray RAL 9006 color.

BULLETIN: CS4

Catalog Number
S2MTHP

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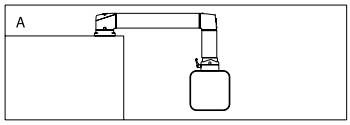
SYSTEM CONFIGURATIONS

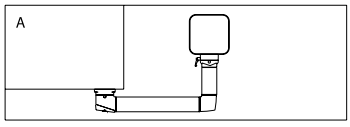
Note to Specifier:

Select suspension system sizing using the SYSPEND 281-MAX load capacity chart.

1. Tube catalog numbers are not included in configuration tables.
2. There are multiple configurations possible with many of the options shown. Components can be inverted in all cases except for Vertical Motion Pedestal Tube. For illustration purposes, configuration A shows how components can be inverted or used with varying enclosure couplings.
3. When using Vertical Motion Pedestal the overall system load is limited to load capacity of Vertical Motion Pedestal.
4. No tube section used vertically should exceed 59.05 inches (1500 mm).



87956903



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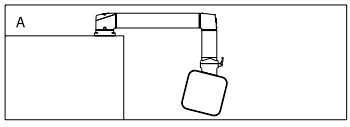

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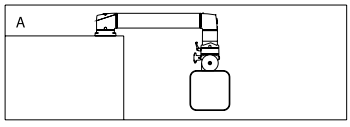
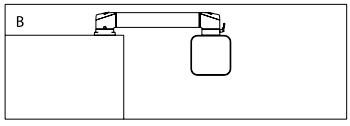


87956964

A

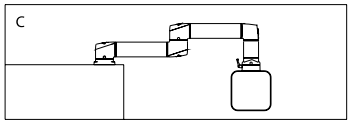
Description	Qty.	Catalog Number
Set-Up joint	1	S2MSJ
Elbow	1	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA



87956965

B

Description	Qty.	Catalog Number
Set-Up joint	1	S2MSJ
Flange Elbow Coupling	1	S2MFEC
For tilt, add Angled Adapter to coupling	1	S2MAA

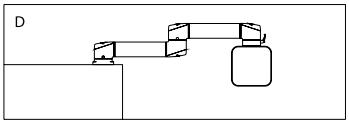


87956966

C

Description	Qty.	Catalog Number
Set-Up joint	1	S2MSJ
Intermediate Joint	1	s2mij
Elbow	1	s2me
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

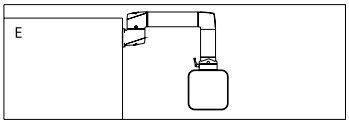
D



87956967

Description	Qty.	Catalog Number
Set-Up joint	1	S2MSJ
Intermediate Joint	1	S2MIJ
Flange Elbow Coupling	1	S2MFEC
For tilt, add Angled Adapter to coupling	1	S2MAA

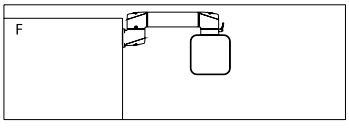
E



87956969

Description	Qty.	Catalog Number
Wall Joint, Horizontal	1	S2MWJH
Elbow	1	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

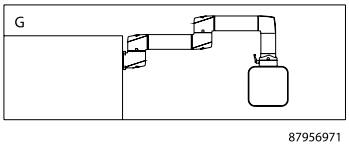
F



87956970

Description	Qty.	Catalog Number
Wall Joint, Horizontal	1	S2MWJH
Flange Elbow Coupling	1	S2MFEC
For tilt, add Angled Adapter to coupling	1	S2MAA

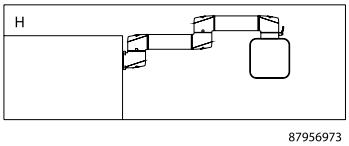
G



87956971

Description	Qty.	Catalog Number
Wall Joint, Horizontal	1	S2MWJH
Intermediate Joint	1	S2MIJ
Elbow	1	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

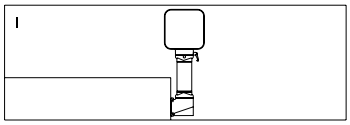
H



87956973

Description	Qty.	Catalog Number
Wall Joint, Horizontal	1	S2MWJH
Intermediate Joint	1	S2MIJ
Flange Elbow Coupling	1	S2MFEC
For tilt, add Angled Adapter to coupling	1	S2MAA

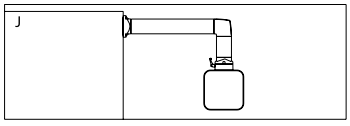
I



87956974

Description	Qty.	Catalog Number
Wall Joint, Vertical	1	S2MWJV
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

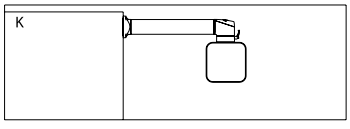
J



87956975

Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Elbow	1	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

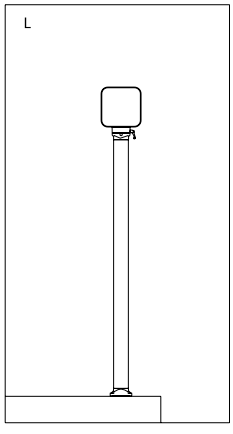
K



87956976

Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Flange Elbow Coupling	1	S2MFEC
For tilt, add Angled Adapter to coupling	1	S2MAA

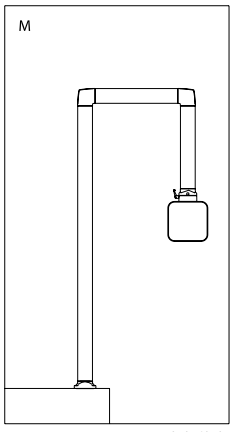
L



87956977

Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

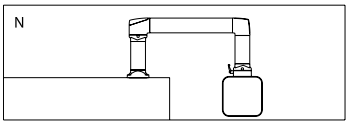
M



87956979

Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Elbow	2	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

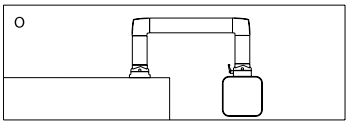
N



87956980

Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Rotary Elbow	1	S2MER
Elbow	1	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

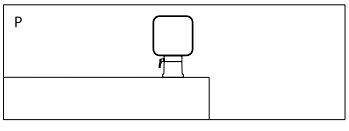
O



87956981

Description	Qty.	Catalog Number
Rotary Base	1	S2MRB
Elbow	2	S2ME
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

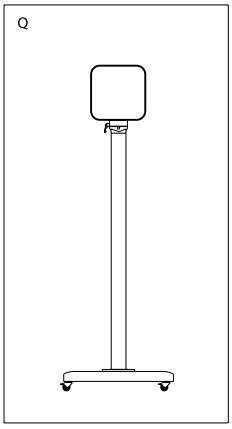
P



87956982

Description	Qty.	Catalog Number
Base Coupling	1	S1MBC
For tilt, add Angled Adapter to coupling	1	S2MAA

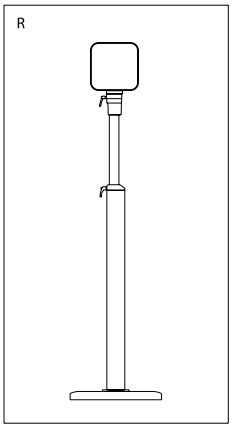
Q



87956983

Description	Qty.	Catalog Number
Large Pedestal Base or Small Pedestal Base	1 1	S2MPBL S2MPBS
Swivel Casters for Pedestal Base	1	CPCC4SC
Flange Coupling or Angled Coupling (Tilted Back) or Angled Coupling (Tilted Forward)	1 1 1	S2MFC S2MACB S2MACF
For tilt, add Angled Adapter to coupling	1	S2MAA

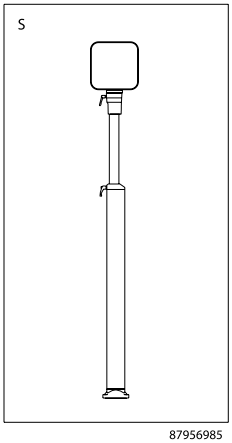
R



87956984

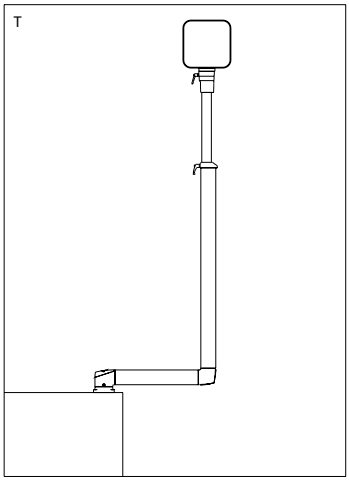
Description	Qty.	Catalog Number
Large Pedestal Base or Small Pedestal Base	1 1	S2MPBL S2MPBS
Flange Coupling, 48-mm Round Tube	1	S2MFC48
Adapter, 48-mm Round Tube	1	S2MA48

S



87956985

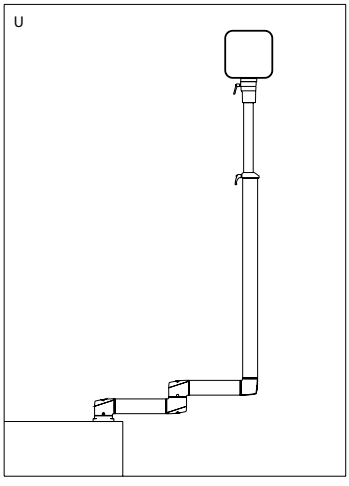
Description	Qty.	Catalog Number
Wall Flange	1	S2MWF
Flange Coupling, 48-mm Round Tube	1	S2MFC48
Adapter, 48-mm Round Tube	1	S2MA48



89104512

T

Description	Qty.	Catalog Number
Set-Up Joint	1	S2MSJ
Elbow	1	S2ME
Flange Coupling, 48mm Round Tube	1	S2MFC48
Adapter, 48mm Round Tube	1	S2MA48



89104513

U

Description	Qty.	Catalog Number
Set-Up Joint	1	S2MSJ
Intermediate Joint	1	S2MIJ
Flange Coupling, 48mm Round Tube	1	S2MFC48
Adapter, 48mm Round Tube	1	S2MA48

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COMPACT PENDANT ARM SERIES 4 SYSTEM 80, TYPE 12

SPECIFICATIONS

- Heavy cast steel and cast aluminum couplings and heavy-wall steel tubing provide excellent structural strength
- Each system includes multiple coupling types and three standard tube lengths (.5 m, 1 m and 2 m) which combine to form numerous configurations
- Steel tubing has 5-mm (0.2-inch) wall thickness. Tubing is cold-formed, welded square and rectangular steel tubes.
- Tubing provides structural integrity and acts as a conduit for equipment wiring
- Removable access plates (provided with set-up joint, elbow and elbow couplings) simplify cable installation inside tubing
- Heavy-duty bearings in all movable joints for convenient, smooth operation and enhanced durability to withstand stresses of repeated use
- Deep tube fittings in all couplings
- Adjustable setscrews allow for accurate alignment of supporting tubes
- Optional pedestal base available
- Gasket is oil-resistant neoprene

INDUSTRY STANDARDS

NEMA/EEMAC Type 12
IEC 60529, IP55
DIN 40050

APPLICATION

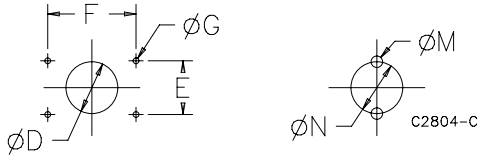
A heftier version of the Series 2 Pendant Arm, the COMPACT Series 4 System 80 Pendant Arms are equally flexible in allowing operators to move controls into and out of position, but they can accommodate heavier weight loads. At 3.3 ft. (1 m), the Series 4 System 80 holds 337 lb. (153.2 kg).

System 80 is recommended for use with CONCEPT HMI and PROLINE Sloped Front Enclosures.

FINISH

Couplings are RAL 7035 light-gray polyester powder paint. Access plates and tubing are light-gray. Bellows are black.

Standard Cutouts for Mounting



Standard Coupling or Standard Elbow Coupling

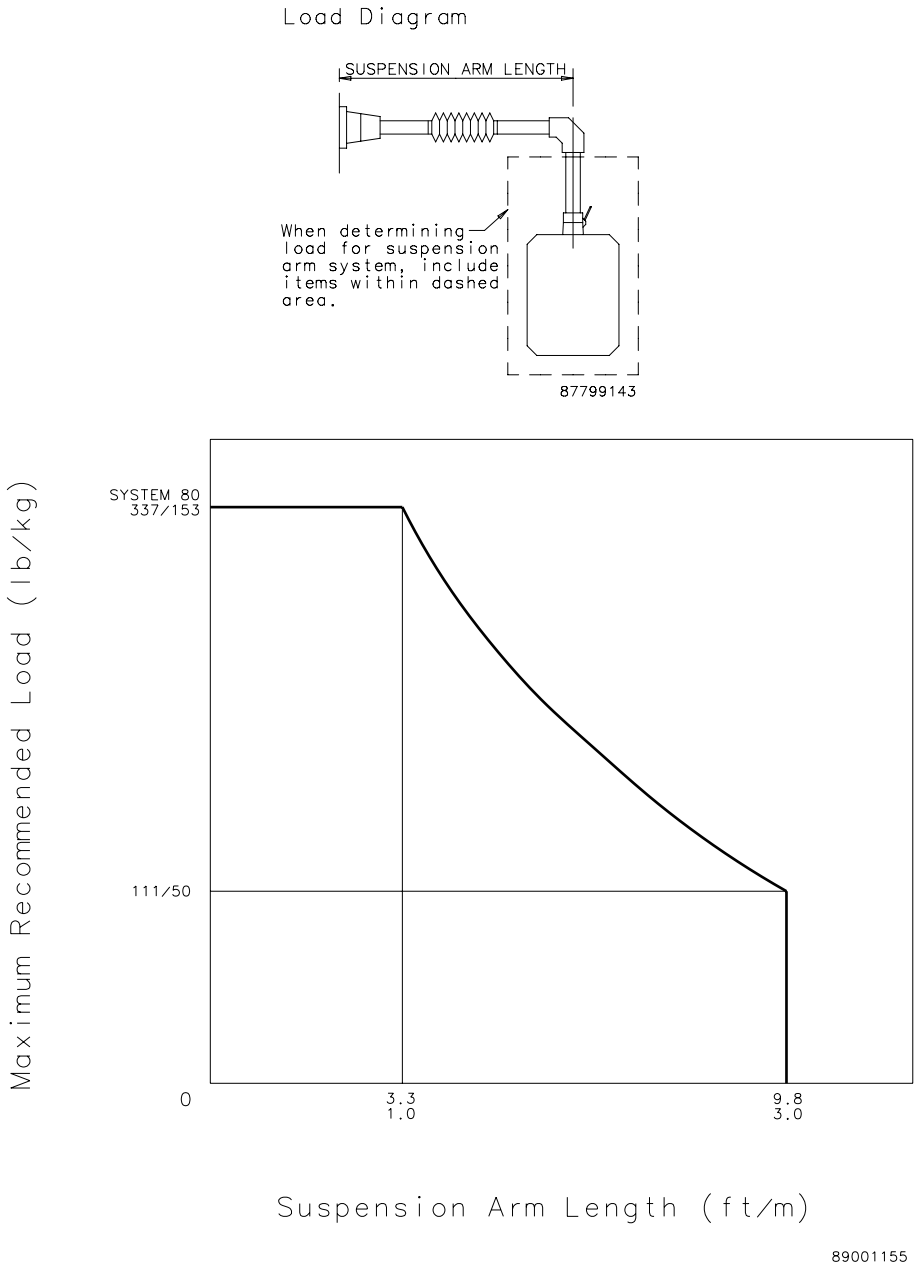
System	Dia. M (mm)	Dia. M (in.)	Dia. N (mm)	Dia. N (in.)
50	8	0.33	51	2.01

Dimensions for Cutouts

System	50 (mm)	50 (in.)	60 (mm)	60 (in.)	80 (mm)	80 (in.)
Set-Up Joint						
Ø D MAX	70	2.75	70	2.75	105	4.13
E	88	3.47	97	3.82	122	4.82
F	88	3.47	97	3.82	122	4.82
Ø G	11	0.43	11	0.43	13	0.51
Wall Joint or Cable Wall Joint						
Ø D MAX	50	1.97	60	2.36	80	3.15
E	50	1.97	60	2.36	80	3.15
F	107	4.21	115	4.53	138	5.43
Ø G	10	0.41	10	0.41	13	0.51
Wall Flange or Base Bracket						
Ø D MAX	70	2.75	70	2.75	105	4.13
E	88	3.47	93	3.66	122	4.80
F	88	3.47	93	3.66	122	4.80
Ø G	11	0.43	11	0.43	13	0.51
Flange Coupling or Flange Elbow Coupling						
Ø D MAX	51	2.01	65	2.56	91	3.58
E	60	2.36	60	2.36	80	3.15
F	60	2.36	60	2.36	80	3.15
Ø G	7	0.26	7	0.26	7	0.26
Angle Adapter Plate						
Ø D MAX	51	2.01	65	2.56	91	3.58
E	80	3.15	80	3.15	80	3.15
F	120	4.72	120	4.72	120	4.72
Ø G	7	0.26	7	0.26	7	0.26

SYSTEM LOAD CAPACITY

The Series 4 Pendant Arm load graph is the result of load capacity tests. Please contact Hoffman for specific application information.



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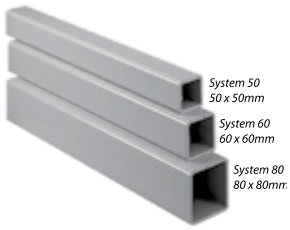
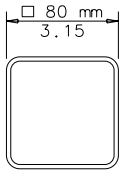
TUBES



Square and rectangular tubes are cold-formed, hollow, welded steel with 5-mm wall thickness. Finish is RAL 7035 light-gray polyester powder paint.
Tubing provides structural integrity and acts as a conduit for equipment wiring. Available in 500-, 1000- and 2000-mm lengths. All pendant arm connections are sized to fit appropriate tube sizes.

BULLETIN: CS4



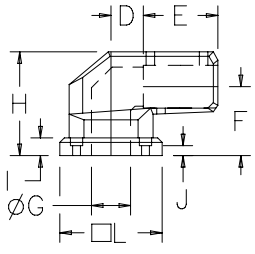
87799136

Catalog Number	System	Size mm/in.	Actual Length mm/in.	Weight (lb.)	External Dimensions mm/in.	Wall Thickness Dimensions mm/in.	Inside Cross Section (sq. cm)	Inside Cross Section (sq. in.)
CCS8T5	80	80 x 80 3.10 x 3.10	489 19.25	13.0	80 sq. 3.15	5 0.20	49	7.60
CCS8T10	80	80 x 80 3.10 x 3.10	991 39.00	24.5	80 sq. 3.15	5 0.20	49	7.60
CCS8T20	80	80 x 80 3.10 x 3.10	1988 78.25	49.0	80 sq. 3.15	5 0.20	49	7.60

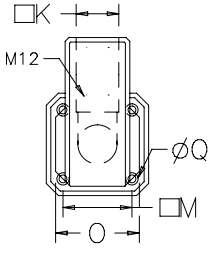
SET-UP JOINT

Cast iron finished with RAL 7035 light-gray polyester powder paint. Mounts equipment to horizontal surface. Permits pendant arm to be rotated or turned 306 degrees. Pivot bearing is maintenance-free. Setscrews, removable access plate and gasket are included. Mounting hardware is not provided.

BULLETIN: CS4



Side View



87799138

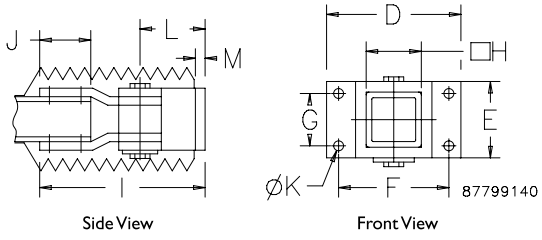
Top View

Catalog Number	System	L each side mm/in.	H mm/in.	D mm/in.	E mm/in.	F mm/in.	Dia. G mm/in.	I mm/in.	J mm/in.	K each side mm/in.	M each side mm/in.	O mm/in.	Dia. Q mm/in.	Weight (lb.)
CCS8SJLG	80	174 6.85	162 6.38	56 2.19	120 4.72	107 4.21	75 2.95	25 0.98	12 0.47	80 3.15	122 4.80	152 5.98	13 0.51	45.5

WALL JOINT

Welded steel plate construction finished with RAL 7035 light-gray polyester powder paint. Mounts equipment to vertical surface. Swivel range is approximately 180 degrees.
Includes bellows with zipper, seals and setscrews. Adjustable tension at pivot point. Rotational limiter is optional. Mounting hardware not provided.

BULLETIN: CS4

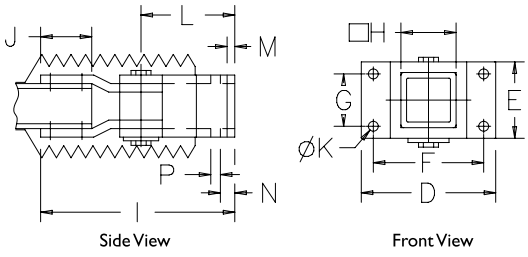


Catalog Number	System	D mm/in.	E mm/in.	F mm/in.	G mm/in.	H each side mm/in.	I mm/in.	J mm/in.	Dia. K mm/in.	L mm/in.	M mm/in.	Weight (lb.)
CCS8WJRLG	80	161 6.34	104 4.09	138 5.43	80 3.15	80 3.15	300 11.81	100 3.94	13 0.51	135 5.31	10 0.39	21.6

CABLE WALL JOINT

Welded steel plate construction finished with RAL 7035 light-gray polyester powder paint. Mounts equipment to vertical surface. Provides cable access to inside of pendant system from above or below. Swivel range approximately 180 degrees. Includes bellows with zipper, seal and setscrews. Adjustable tension at pivot point. Rotation limiter is optional. Mounting hardware not provided.

BULLETIN: CS4

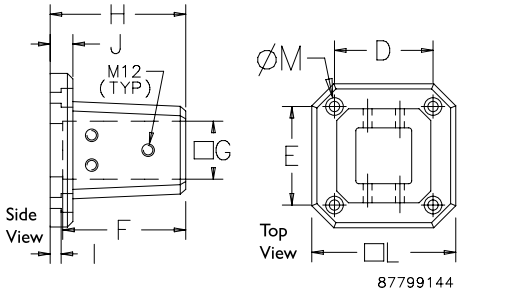


Catalog Number	System	D mm/in.	E mm/in.	F mm/in.	G mm/in.	H each side mm/in.	I mm/in.	J mm/in.	Dia. K mm/in.	L mm/in.	M mm/in.	N mm/in.	P mm/in.	Weight (lb.)
CCS8WJCRLG	80	165 6.50	104 4.09	138 5.43	80 3.15	80 3.15	330 12.99	100 3.94	13 0.51	165 6.50	10 0.39	20 0.79	60 2.36	20.9

WALL FLANGE

Wall Flange expands mounting options to include wall-mount as well as horizontal tube applications. Cast iron construction finished with RAL 7035 light-gray polyester powder paint. Setscrews, gasket and seals are included. Mounting hardware not provided.

BULLETIN: CS4

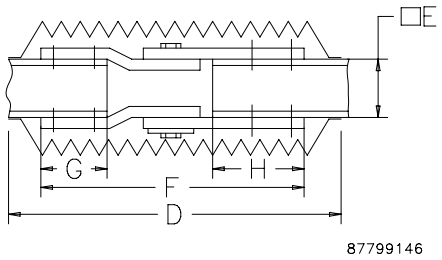


Catalog Number	System	L each side mm/in.	H mm/in.	D mm/in.	E mm/in.	F mm/in.	G each side mm/in.	I mm/in.	J mm/in.	Dia. M mm/in.	Weight (lb.)
CCS8WFLG	80	174 6.85	160 6.30	122 4.80	122 4.80	143 5.63	80 3.15	12 0.47	25 0.98	13 0.51	20.1

INTERMEDIATE JOINT

Welded steel plate construction finished with RAL 7035 light-gray polyester powder paint. Mounts to pendant tube. Swivel range is approximately 180 degrees. Setscrews and bellows with zipper are included. Rotational limiter is optional.

BULLETIN: CS4

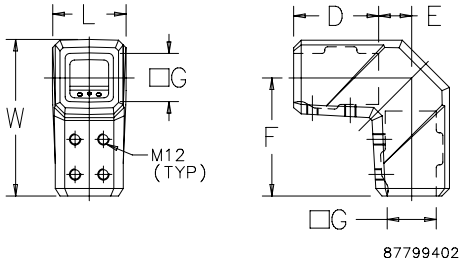


Catalog Number	System	D mm/in.	E each side mm/in.	F mm/in.	G mm/in.	H mm/in.	Weight (lb.)
CCS8IJRLG	80	400	80	330	100	100	21.4
		15.75	3.15	12.99	3.94	3.94	

ELBOW

Cast aluminum with RAL 7035 light-gray polyester powder paint finish. Removable access plate. Setscrews and gaskets are included.

BULLETIN: CS4

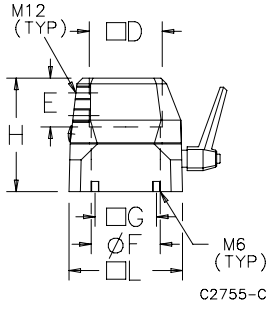


Catalog Number	System	L mm/in.	W mm/in.	D mm/in.	E mm/in.	F mm/in.	G each side mm/in.	Weight (lb.)
CCS8ELLG	80	108	225	120	50	170	80	18.7
		4.25	8.86	4.72	1.97	6.69	3.15	

FLANGE COUPLING

Flange Coupling mounts to enclosure, enabling enclosure to be rotated 300 degrees. Enclosure can be locked in position. Safety stop and maintenance-free bearing. Finish is RAL 7035 light-gray polyester powder paint. Includes installation instructions, setscrews, gaskets and mounting hardware.

BULLETIN: CS4

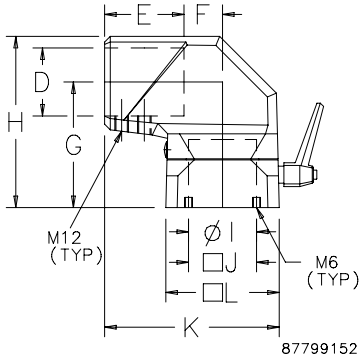


Catalog Number	System	L each side mm/in.	H mm/in.	D each side mm/in.	E mm/in.	Dia. F mm/in.	G each side mm/in.	Weight (lb.)
CCS8FCLG	80	120	110	80	53	91	80	7.2
		4.72	4.33	3.15	2.09	3.58	3.15	

FLANGE ELBOW COUPLING

Coupling mounts to enclosure, enabling enclosure to be rotated 300 degrees. Enclosure can be locked in position. Removable access plates. Finish is RAL 7035 light-gray polyester powder paint. Setscrews, gasket and mounting hardware are included.

BULLETIN: CS4



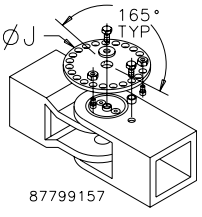
Catalog Number	System	L each side mm/in.	H mm/in.	D each side mm/in.	E mm/in.	F mm/in.	G mm/in.	Dia. I mm/in.	J each side mm/in.	K mm/in.	Weight (lb.)
CCS8FECLG	80	120 4.72	173 6.81	80 3.15	90 3.54	54 2.13	121 4.76	91 3.58	80 3.15	204 8.03	9.5

ROTATION LIMITER

Accessory for use with Wall Joint, Cable Wall Joint and Intermediate Joint. Limits the rotation of these joints which normally rotate 180 degrees. Rotation Limiter provides stops in 15-degree increments. The limiter is a heavy-duty steel disk that attaches to the pivot point on each joint. Moveable stop pins provide adjustment.

BULLETIN: CS4

Catalog Number	System	Dia. J (mm)	Dia. J (in.)	Weight (lb.)
CCS814RL	80	119	4.70	1.3



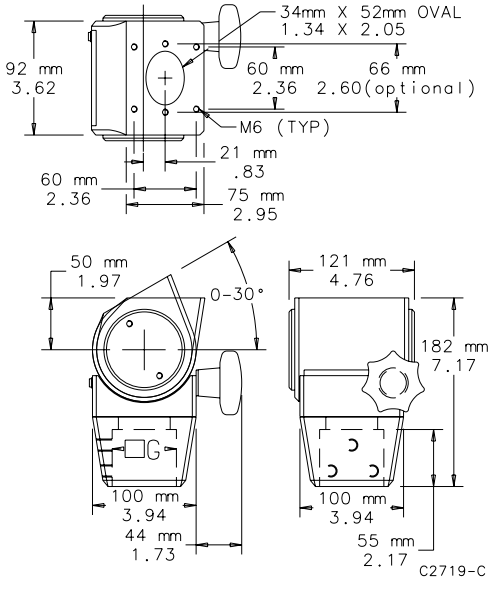
SWIVEL TILT

Mounts between suspension arm and HMI enclosure to provide both swivel and tilt options for machine operator. Cast aluminum assembly finished with RAL 7035 light-gray polyester powder paint. Center opening for control cables. Tilt knob allows infinite tilt adjustment from horizontal to 30 degrees. Swivel allows 300-degree maximum rotation. Setscrews, seals and enclosure mounting screws are included.
Maximum load for overhead applications is 110 lb. (50 kg).

BULLETIN: CS4

Catalog Number	System	G (mm) each side	G (in.) each side	Weight (lb.)
CCS8STBLG				

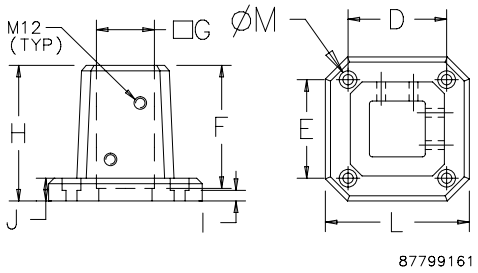
Not recommended to be used in combination with base with cutout for sloped-front PBSK66 or PBSK66SS.



BASE BRACKET

For vertical-tube mounting or to mount tube to floor. Bracket is cast iron finished with RAL 7035 light-gray polyester powder paint. Setscrews, gasket and seals are included. Mounting hardware not provided.

BULLETIN: CS4



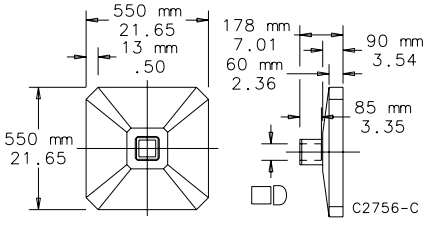
Catalog Number	System	L each side mm/in.	H mm/in.	D mm/in.	E mm/in.	F mm/in.	G each side mm/in.	I mm/in.	J mm/in.	Dia. M mm/in.	Weight (lb.)
CCS8BBLG	80	174 6.85	160 6.30	122 4.80	122 4.80	143 5.63	80 3.15	12 0.47	25 0.98	13 0.51	20.4

PEDESTAL BASE

Cast aluminum one-piece heavy-duty construction with RAL 7035 light-gray polyester powder paint finish. Includes all hardware for attaching tubes. Optional casters or levelers can be installed on pedestal base. Levelers and fixed or swivel casters are available in pairs (must order two pair).

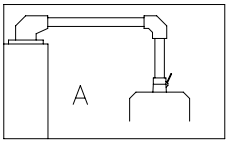
BULLETIN: CS4

Catalog Number	System	D (mm) each side	D (in.) each side	Weight (lb.)
CCS8PBLG	80	80 x 80	3.15 x 3.15	31.5



SYSTEM CONFIGURATIONS

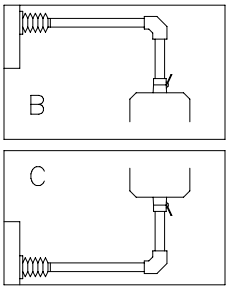
Note to Specifier:
Select suspension system sizing using the Compact Series 4 System 80 load capacity chart.
1. Tube catalog numbers are not included in configuration tables.
2. There are multiple configurations possible with many of the options shown. Components can be inverted. For illustration purposes, configurations may show how components can be inverted or used with varying enclosure couplings.



87799186

A

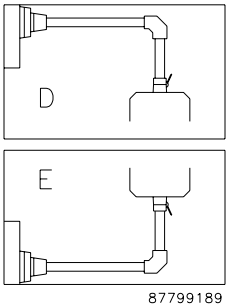
Description	Qty.	Catalog Number
Set-up joint	1	CCS8SJLG
Elbow	1	CCS8ELLG
Flange coupling or Swivel tilt	1 1	CCS8FCLG CCS8STBLG



87799187

B AND C

Description	Qty.	Catalog Number
Wall joint or Cable wall joint	1 1	CCS8WJRLG CCS8WJCRLG
Elbow	1	CCS8ELLG
Flange coupling or Swivel tilt	1 1	CCS8FCLG CCS8STBLG

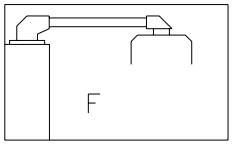


87799189

D AND E

Description	Qty.	Catalog Number
Wall flange	1	CCS8WFLG
Elbow	1	CCS8ELLG
Flange coupling or Swivel tilt	1 1	CCS8FCLG CCS8STBLG

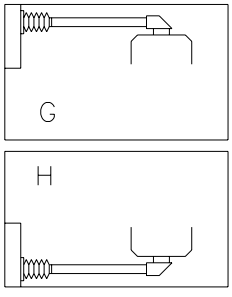
F



87799190

Description	Qty.	Catalog Number
Set-up joint	1	CCS8SJLG
Flange elbow coupling	1	CCS8FECLG

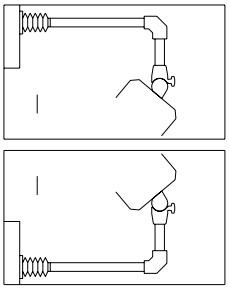
G AND H



87799191

Description	Qty.	Catalog Number
Wall joint or Cable wall joint	1 1	CCS8WJRLG CCS8WJCRLG
Flange elbow coupling	1	CCS8FECLG

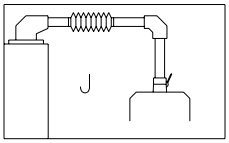
I



87799193

Description	Qty.	Catalog Number
Wall joint or Cable wall joint	1 1	CCS8WJRLG CCS8WJCRLG
Elbow	1	CCS8ELLG
Swivel tilt[a]	1	CCS8STBLG

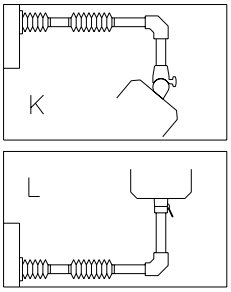
[a]Maximum load for overhead applications is 110 lb. (50 kg) including enclosure.



87799194

J

Description	Qty.	Catalog Number
Set-up joint	1	CCS8SJLG
Intermediate joint	1	CCS8IJRLG
Elbow	1	CCS8ELLG
Flange coupling or Swivel tilt	1 1	CCS8FCLG CCS8STBLG

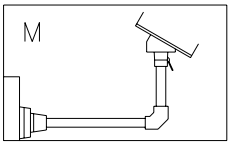


87799195

K AND L

Description	Qty.	Catalog Number
Wall joint or Cable wall joint	1 1	CCS8WJRLG CCS8WJCRLG
Intermediate joint	1	CCS8IJRLG
Elbow	1	CCS8ELLG
Flange coupling or Swivel tilt[a]	1 1	CCS8FCLG CCS8STBLG

[a]Maximum load for overhead applications is 110 lb. (50 kg) including enclosure.

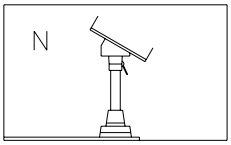


87799197

M

Description	Qty.	Catalog Number
Wall flange	1	CCS8WFLG
Elbow	1	CCS8ELLG
Flange coupling	1	CCS8FCLG

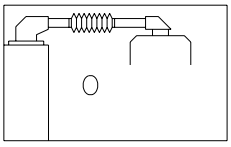
N



87799198

Description	Qty.	Catalog Number
Base bracket	1	CCS8BBLG
Flange coupling	1	CCS8FCLG
Angle adapter 15º or Angle adapter 30º	1 1	CCS568AA15LG CCS568AA30LG

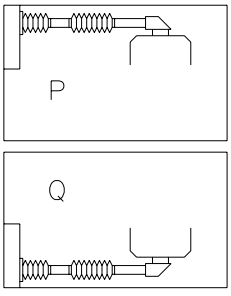
O



87799199

Description	Qty.	Catalog Number
Set-up joint	1	CCS8SJLG
Intermediate joint	1	CCS8IJRLG
Flange elbow coupling	1	CCS8FECLG

P AND Q



87799200

Description	Qty.	Catalog Number
Wall joint or Cable wall joint	1 1	CCS8WJRLG CCS8WJCRLG
Intermediate joint	1	CCS8IJRLG
Flange elbow coupling	1	CCS8FCLG

Notes

nVent | HOFFMAN

SYSPEND HMI SANITARY SYSTEM

INDUSTRY STANDARDS

Maintains NEMA Type 4, 4X and 12 and IEC IP69K enclosure ratings when properly installed per Hoffman instructions.

APPLICATION

Specifically designed to support the SYSPEND Sanitary HMI Enclosure in sanitary washdown environments, particularly food and beverage manufacturing. The suspension system supports up to 90 lb. (40.8 kg) at 3.3 ft. (1 m). Its modular design with multiple tube lengths and bent tubes allows for application versatility. The entire system meets Type 4X and IP69K requirements for high-pressure, high-temperature washdown applications.

FEATURES

- Type 304 stainless steel construction provides corrosion resistance and ease of cleaning
- SYSPEND-LOK attachment method prevents tubes from turning and pulling out of fittings and provides a watertight connection
- Straight, L- and U-shaped tubes available in various lengths to provide design flexibility
- Swivel and fixed couplings provide rigid connection point between tubes or between tube and enclosure
- Swivel and fixed base brackets provide secure attachment to wall, floor or machine with easy leveling capability
- Swivel fittings provide 330-degree rotation
- Optional base bracket cover can be used on wall, floor or machine* to cover exposed hardware on fixed base bracket (not intended to be mounted directly to a large enclosure)

SPECIFICATIONS

- Tubes and fittings constructed of Type 304 stainless steel
- SYSPEND-LOK Wrench Head included with each fitting to secure fittings to tubes

FINISH

External surfaces have a #3 brushed finish

NOTES

* SYSPEND HMI Sanitary Systems are not intended to be mounted directly to large enclosures.

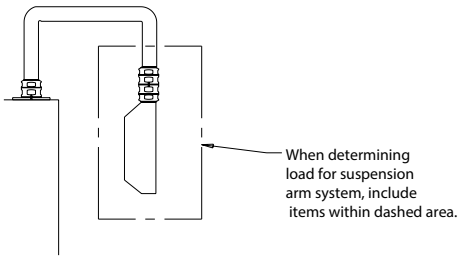
MODIFICATION AND CUSTOMIZATION

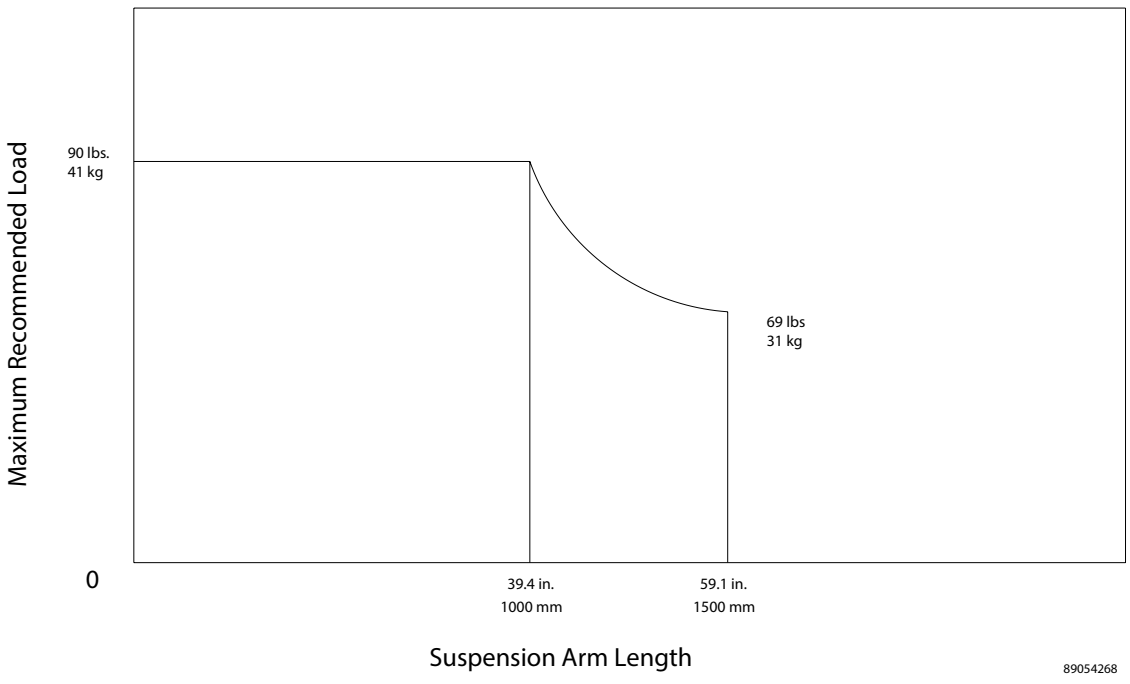
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

SYSTEM LOAD CAPACITY

The SYSPEND Sanitary HMI System load graph is the result of load capacity tests. Please contact Hoffman for specific application information.

Load Diagram





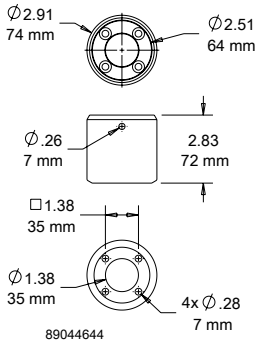
SYSPEND VHDS-MOTION ARM ADAPTER

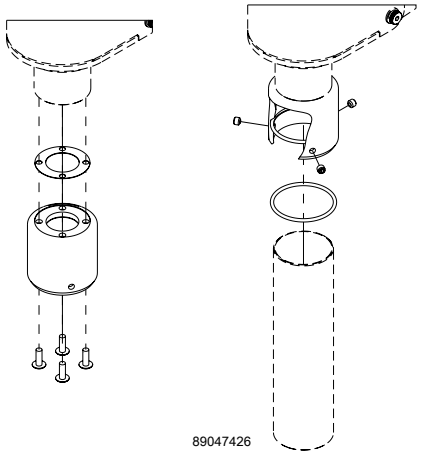
Attaches the SYSPEND Sanitary HMI Enclosure to the VHDS-Motion Arm.

- Type 304 stainless steel
- Attaches with set screws to the SYSPEND Sanitary HMI Enclosure
- Bolts directly to the VHDS-Motion Arm (only compatible with VHDS26 and VHDS36 models with revision level A or greater)

BULLETIN: VM9

Catalog Number	Description	Weight (kg)	Weight (lb.)
SVHDSA	SYSPEND VHDS-Motion Arm Adapter	.73	1.6

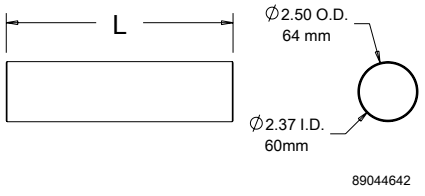




STRAIGHT TUBING

- Type 304 polished stainless steel
- Outer diameter of 64 mm (2.50 in.)
- Inner diameter of 60 mm (2.37 in.)
- 2-mm (.06-in.) wall thickness

BULLETIN: VM9



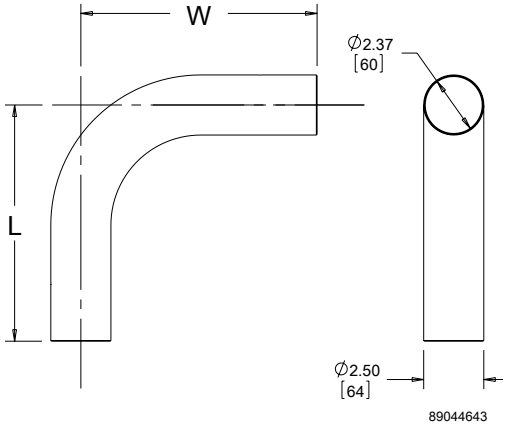
Catalog Number	L (mm)	L (in.)	Weight (kg)	Weight (lb.)
ST250SS	250	9.84	.45	1.0
ST500SS	500	19.68	1.61	3.55
ST750SS	750	29.53	2.27	5.0
ST1000SS	1000	39.37	2.72	6.0
ST1250SS	1250	49.21	3.88	8.55
ST1500SS	1500	59.06	4.58	10.1

L-SHAPED TUBING

- Type 304 polished stainless steel
- Outer diameter of 64 mm (2.50 in.)
- Inner diameter of 60 mm (2.37 in.)
- 2-mm (.06-in.) wall thickness

BULLETIN: VM9

Catalog Number	L mm/in.	W mm/in.	Weight (kg)	Weight (lb.)
ST250250SS	250 9.84	250 9.84	1.41	3.1
ST500240SS	500 19.68	240 9.45	2.20	4.85
ST500500SS	500 19.68	500 19.68	3.28	7.24
ST1000500SS	1000 39.37	500 19.68	5.76	12.7

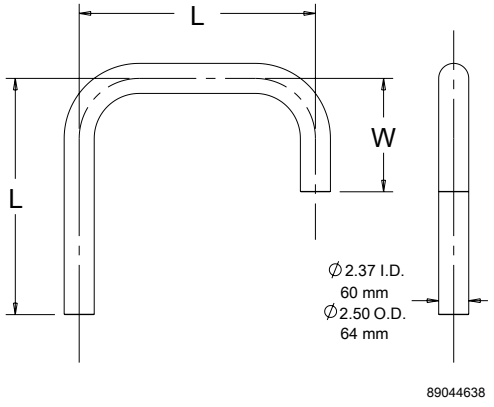


U-SHAPED TUBING

- Type 304 polished stainless steel
- Outer diameter of 64 mm (2.50 in.)
- Inner diameter of 60 mm (2.37 in.)
- 2-mm (.06-in.) wall thickness

BULLETIN: VM9

Catalog Number	L mm/in.	W mm/in.	Weight (kg)	Weight (lb.)
ST500240500SS	500 19.68	240 9.45	3.76	8.3
ST800500800SS	800 31.50	500 19.68	7.26	16.0



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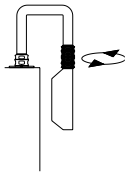
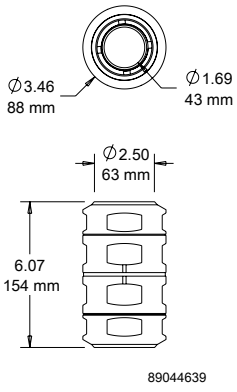
SWIVEL COUPLING

- Provides means of attaching enclosure to tube
- Allows enclosure to rotate 330-degrees
- SYSPEND-LOK attachment method prevents tubes from turning and pulling out of fittings and provides a water-tight connection
- Type 304 polished stainless steel
- Includes SYSPEND-LOK Wrench Head for attaching coupling to tubes (strap wrench or spanner wrench that opens to 80 mm or greater can also be used)

BULLETIN: VM9



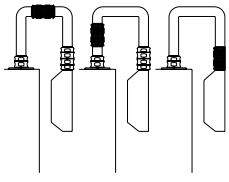
Catalog Number	Description	Weight (kg)	Weight (lb.)
SSCSS	Swivel Coupling	4.54	10



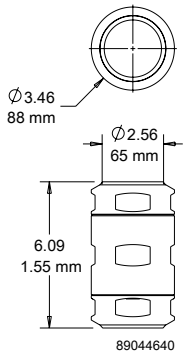
FIXED COUPLING

- Provides secure means of joining two tubes together
- Can also provide attachment of enclosure to tube when enclosure rotation is not desired
- SYSPEND-LOK attachment method prevents tubes from turning and pulling out of fittings and provides a water-tight connection
- Type 304 polished stainless steel
- Includes SYSPEND-LOK Wrench Head for attaching coupling to tubes (strap wrench or spanner wrench that opens to 80 mm or greater can also be used)

BULLETIN: VM9



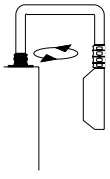
Catalog Number	Description	Weight (kg)	Weight (lb.)
SFCSS	Fixed Coupling	3.54	7.5



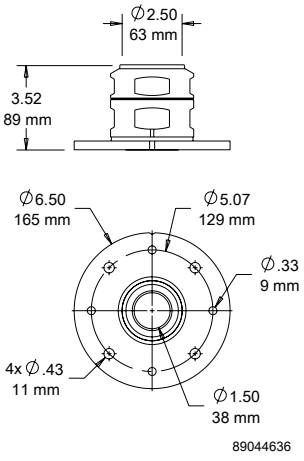
SWIVEL BASE BRACKET

- Provides means of attaching tube to the floor or a machine
- Provides 330-degree rotation
- SYSPEND-LOK attachment method prevents tubes from turning and pulling out of fittings and provides a water-tight connection
- Type 304 polished stainless steel
- Includes SYSPEND-LOK Wrench Head for attaching base bracket to tubes (strap wrench or spanner wrench that opens to 80 mm or greater can also be used)
- Includes 4 set screws that provides means of leveling the entire suspension system
- Surface mounting hardware not included

BULLETIN: VM9



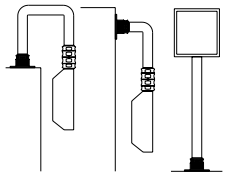
Catalog Number	Description	Weight (kg)	Weight (lb.)
SSBBSS	Swivel Base Bracket	3.72	8.2



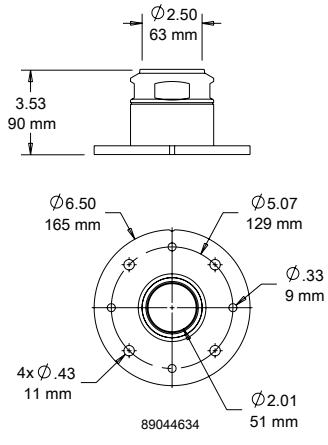
FIXED BASE BRACKET

- Provides means of attaching tube to a wall, floor or machine
- Does not provide rotation
- SYSPEND-LOK attachment method prevents tubes from turning and pulling out of fittings and provides a water-tight connection
- Type 304 polished stainless steel
- Includes SYSPEND-LOK Wrench Head for attaching base bracket to tubes (strap wrench or spanner wrench that opens to 80 mm or greater can also be used)
- Includes 4 set screws that provide means of leveling the entire suspension system
- Surface mounting hardware not included
- Optional bracket cover available to hide all exposed mounting hardware

BULLETIN: VM9



Catalog Number	Description	Weight (kg)	Weight (lb.)
SFBBSS	Fixed Base Bracket	3.63	8



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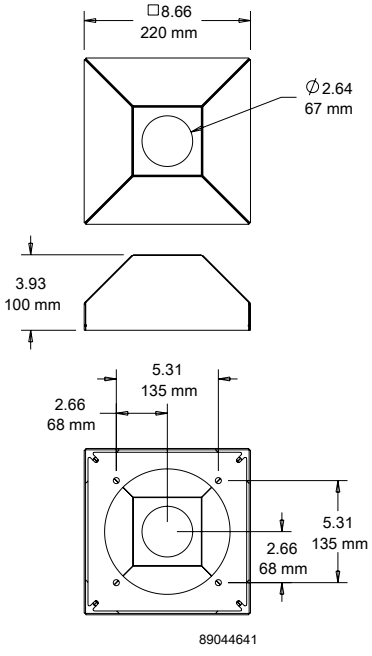
BASE BRACKET COVER

- Covers the fixed base bracket (not compatible with the swivel base bracket)
- Provides means of covering all exposed mounting hardware
- Simply snaps into place over the base bracket
- Type 304 polished stainless steel

BULLETIN: VM9

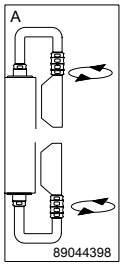
Catalog Number	Description
SBCSS	Base Bracket Cover



SYSPEND SANITARY ENCLOSURE SYSTEM CONFIGURATIONS

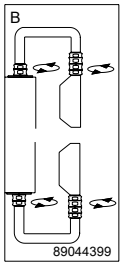
Note to Specifier:
Select suspension system sizing using the SYSPEND Sanitary HMI System load capacity chart.

A



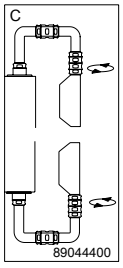
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Swivel Coupling	1	SSCSS
U-Shaped Tubing	1	ST500240500SS ST800500800SS

B



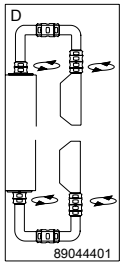
Description	Qty.	Catalog Number
Swivel Base Bracket	1	SSBBSS
Swivel Coupling	1	SSCSS
U-Shaped Tubing	1	ST500240500SS ST800500800SS

C



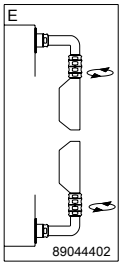
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Fixed Coupling	1	SFCSS
L-Shaped Tubing	2	ST250250SS ST500240SS ST500500SS ST1000500SS
Swivel Coupling	1	SSCSS

D



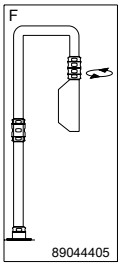
Description	Qty.	Catalog Number
Fixed Coupling	1	SFCSS
L-Shaped Tubing	2	ST250250SS ST500240SS ST500500SS ST1000500SS
Swivel Base Bracket	1	SSBBSS
Swivel Coupling	1	SSCSS

E



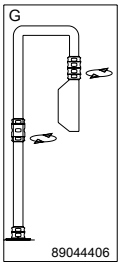
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
L-Shaped Tubing	2	ST250250SS ST500240SS ST500500SS ST1000500SS
Swivel Coupling	1	SSCSS

F



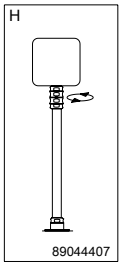
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Fixed Coupling	1	SFCSS
Swivel Coupling	1	SSCSS
Straight Tubing	1	ST250SS ST500SS ST750SS ST1000SS ST1250SS ST1500SS
U-Shaped Tubing	1	ST500240500SS ST800500800SS
Base Bracket Cover	1	SBCSS

G



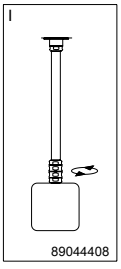
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Straight Tubing	1	ST250SS ST500SS ST750SS ST1000SS ST1250SS ST1500SS
Swivel Coupling	1	SSCSS
U-Shaped Tubing	1	ST500240500SS ST800500800SS
Base Bracket Cover	1	SBCSS

H



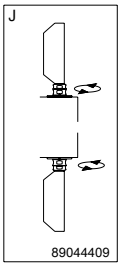
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Straight Tubing	1	ST250SS ST500SS ST750SS ST1000SS ST1250SS ST1500SS
Swivel Coupling	1	SSCSS
Base Bracket Cover	1	SBCSS

I



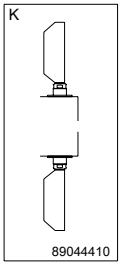
Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS
Straight Tubing	1	ST250SS ST500SS ST750SS ST1000SS ST1250SS ST1500SS
Swivel Coupling	1	SSCSS

J



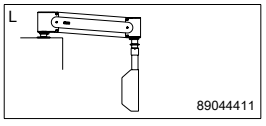
Description	Qty.	Catalog Number
Swivel base Bracket	1	SSBBSS

K

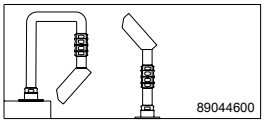


Description	Qty.	Catalog Number
Fixed Base Bracket	1	SFBBSS

L



Description	Qty.	Catalog Number
VHDS Motion Arm Adapter	1	SVHDSA



Enclosure adapter can be flipped for angled viewing.

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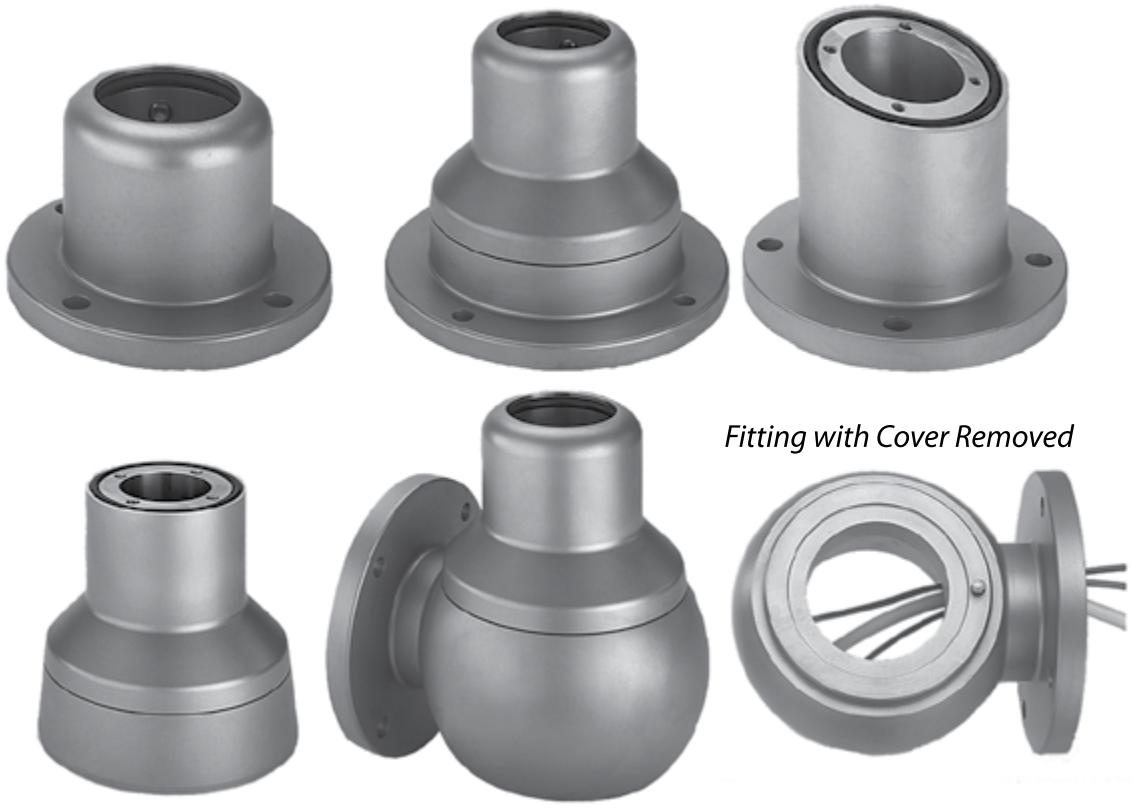
7

CS480 STAINLESS STEEL PENDANT ARM SYSTEM



Fitting with Cover Removed

INDUSTRY STANDARDS

IEC 60529, IP66

APPLICATION

The CS480 Stainless Steel Pendant Arm System performs extremely well in applications that require corrosion resistance and suspension of process and control equipment for easy cleaning and washdown. CS480 is recommended for use with Stainless Steel HMI Enclosures with CS480 pendant cutout. The CS480 system has a high degree of design configuration flexibility. (For possible design combinations, see the System Combinations Drawings.)
Used for lighter loads, the CS480 system's load rating at 3.3 ft. (1 m) is 89.6 lb. (40.7 kg). Ratings for other loads are shown in the Load Capacity chart.

SPECIFICATIONS

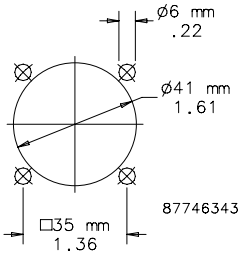
- Tubing clamps into position with setscrews for easy assembly and smooth appearance
- Fixed or swivel mounting, straight or at a 15-degree angle
- 90-degree fittings have a removable cover that allows easy access for wiring
- The coupling hole geometrics for enclosure machining are shown in the Coupling Hole Geometry diagram

FINISH

Tubing: Type 304 polished stainless steel
Fittings: Type 304 polished stainless steel

Brushed stainless steel shown.

Coupling Hole Geometry
for Enclosure Machining



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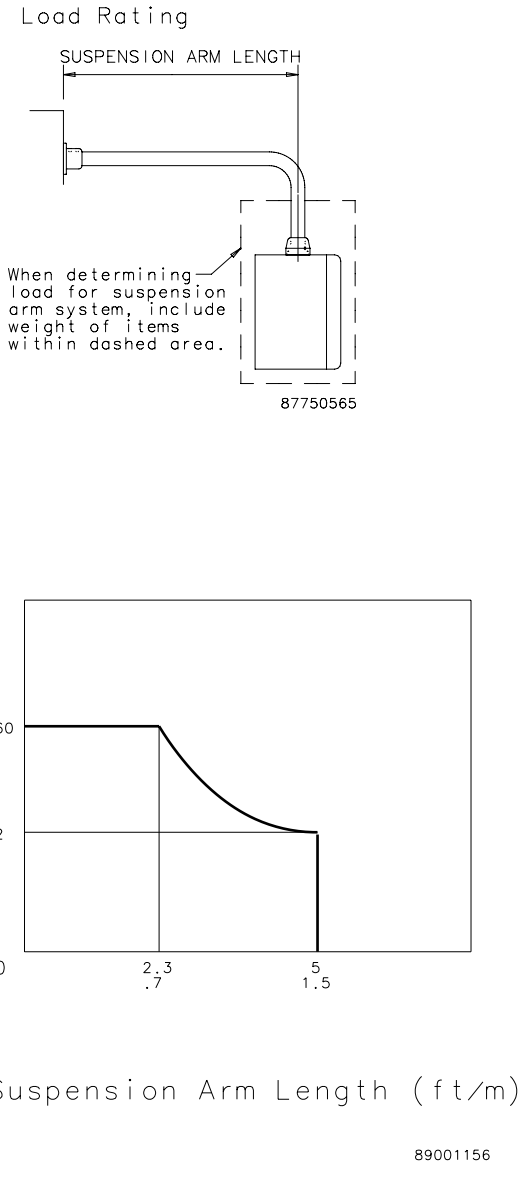
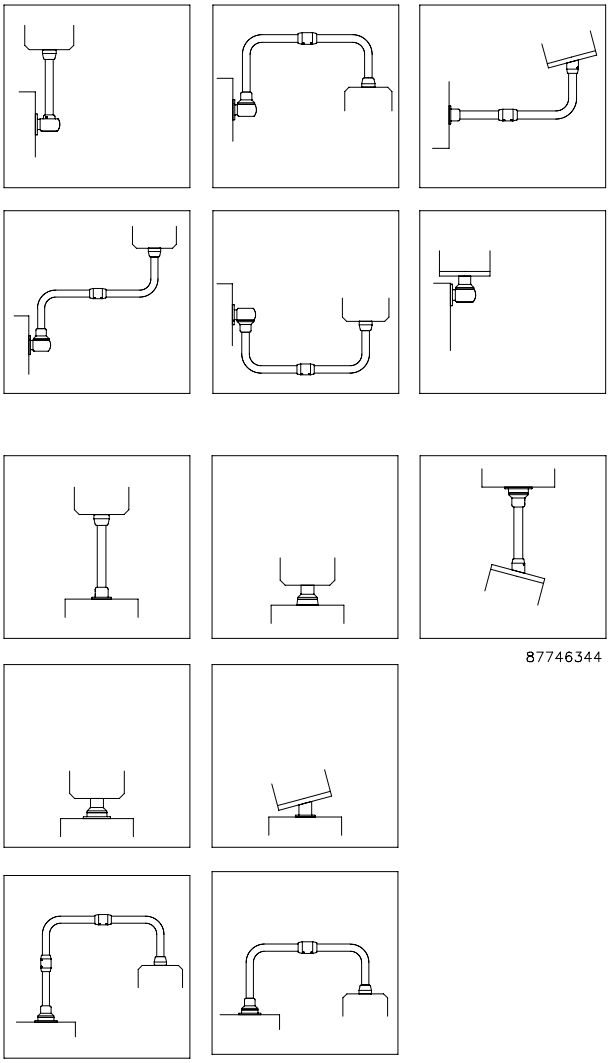
SYSTEM LOAD CAPACITY

The load capacity of the CS480 Pendant Arm System is shown in the diagram. Choose the CS600 System for larger loads.



SYSTEM COMBINATIONS

The wide variety of components permits a high level of flexibility in configuring the system. Some possible combinations are shown here.



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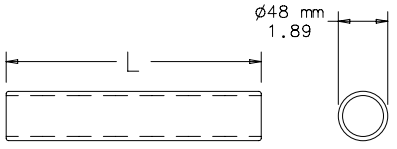
STRAIGHT TUBING

Straight Tubing has an outer diameter of 48.3 mm (1.90 in.) and is made from 3.6-mm wall thickness Type 304 polished stainless steel.

BULLETIN: CCR6

Catalog Number	L mm/in.	Product Weight (kg)	Product Weight (lb.)
CCSS48T25	250 9.84	1.13	2.5
CCSS48T50	500 19.69	2.13	4.7
CCSS48T75	750 29.53	3.18	7.0
CCSS48T100	1000 39.37	4.40	9.7
CCSS48T125	1250 49.21	5.44	12.0
CCSS48T150	1500 59.06	6.67	14.7



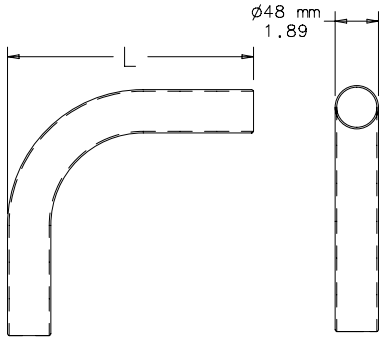
87799211

L-SHAPED TUBING

L-Shaped Tubing has an outer diameter of 48.3 mm (1.90 in.) and is made from 3.6-mm-thick Type 304 polished stainless steel. It is used with coupling sleeves and straight tubing to provide the desired system configuration.

BULLETIN: CCR6

Catalog Number	L mm/in.	Product Weight (kg)	Product Weight (lb.)
CCSS48TLB25	250 x 250 9.84 x 9.84	2.4	5.3
CCSS48TLB50	500 x 500 19.69 x 19.69	4.76	10.5



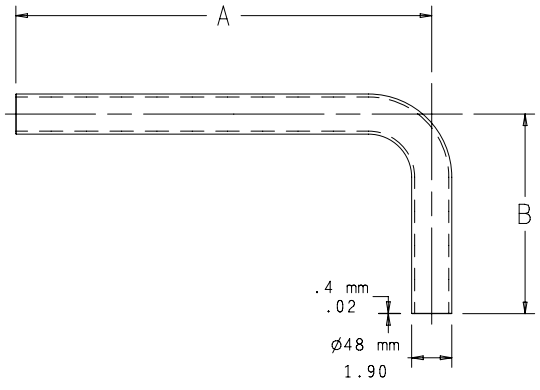
87799212

L-SHAPED STAINLESS STEEL PENDANT TUBES

L-Shaped Pendant Tubes are made of Type 304 stainless steel with an outer diameter of 48 mm (1.90 in.) and have a smooth finish. For use in conjunction with CS480 stainless steel pendant fittings. Use of these tubes does not compromise the enclosure rating.

BULLETIN: CCR6

Catalog Number	A mm/in.	B mm/in.	Product Weight (kg)	Product Weight (lb.)
CCSSTL5024	500 19.69	240 9.45	2.6	5.7
CCSSTL10050	1000 39.37	500 19.69	5.4	11.9



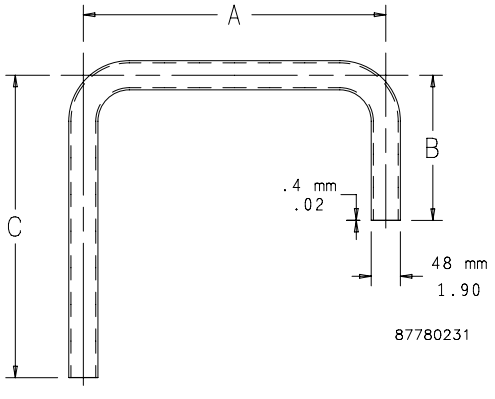
87780230

U-SHAPED STAINLESS STEEL PENDANT TUBES

U-Shaped Pendant Tubes are made of Type 304 stainless steel with an outer diameter of 48 mm (1.90 in.) and have a smooth finish. For use in conjunction with CS480 stainless steel pendant fittings. Use of these tubes does not compromise the enclosure rating.

BULLETIN: CCR6

Catalog Number	AxBxC in./mm	Product Weight (kg)	Product Weight (lb.)
CCSSTU502450	19.69 x 9.45 x 19.69 500 x 240 x 500	4.5	9.9
CCSSTU802480	31.50 x 9.45 x 31.50 800 x 240 x 800	6.7	14.8



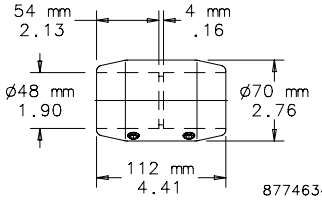
87780231

COUPLING SLEEVE

The Shaped Pendant Tubes joins sections of tubing in the CS480 System. Type 304 polished stainless steel finish. Includes gaskets.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48CS	CS480 system coupling sleeve	1.4	3.5



87746345

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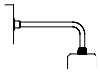
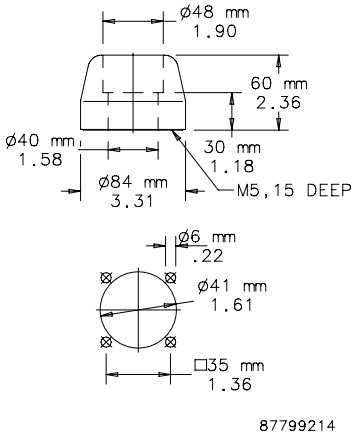
STRAIGHT COUPLING

Flange coupling for attaching enclosures. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets and mounting hardware.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48FC	Straight coupling for enclosure	1.4	3.5



87799214

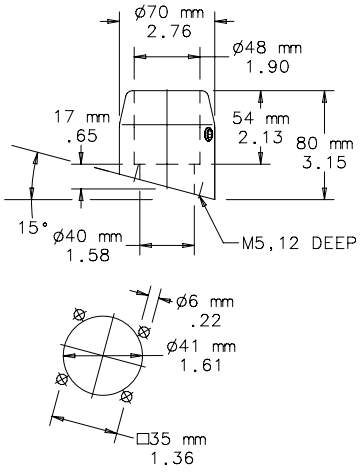
NOTE: Recommended mounting hole size shown.

ANGLE COUPLING

Rigid flange coupling with 15-degree angle of inclination for attaching enclosures. Type 304 polished stainless steel finish. Includes gaskets and mounting hardware.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48AC15	Angle coupling for enclosures	1.0	2.0



87746346

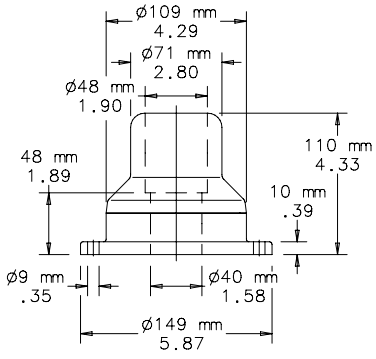
NOTE: Recommended mounting hole size shown.

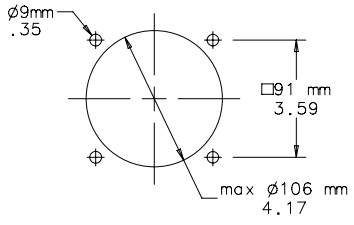
SWIVEL BASE FOR EXTERNAL ATTACHMENT

Swivel Base for mounting to machine or floor. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48BBRE	Swivel base, external	4.2	9.5





87799217

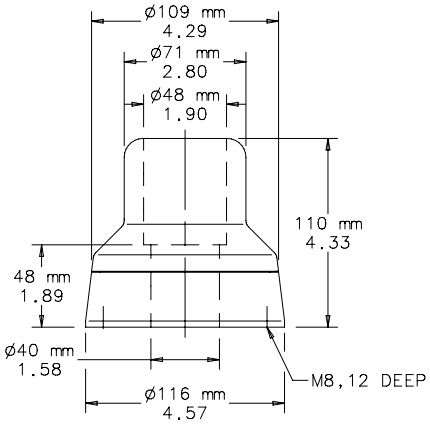
NOTE: Recommended mounting hole size shown.

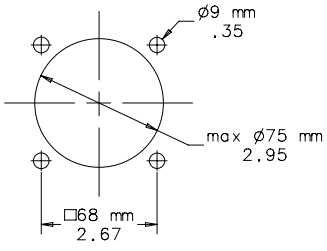
SWIVEL BASE FOR INTERNAL MOUNTING

Swivel Base for mounting to machine or floor. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48BBRI	Swivel base, internal	4.2	9.5





87746348

NOTE: Recommended mounting hole size shown.

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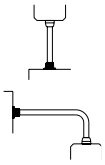
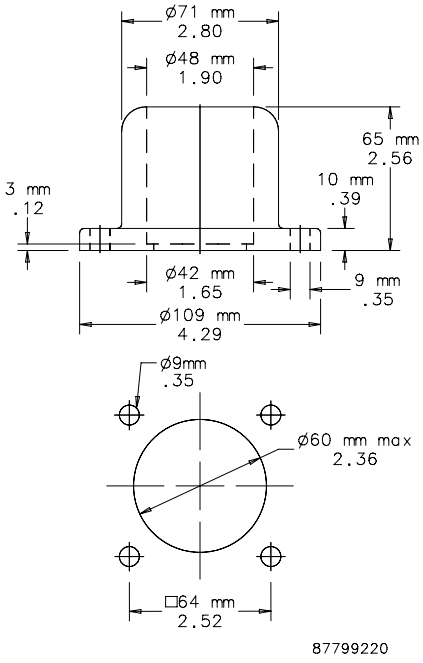
BASE BRACKET/WALL FLANGE

Use as Base Bracket or Wall Flange to mount to vertical or horizontal surfaces. Type 304 polished stainless steel finish. Includes gaskets. Base-mounting fasteners not provided.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48BB	Base bracket/wall flange	1.4	3.5



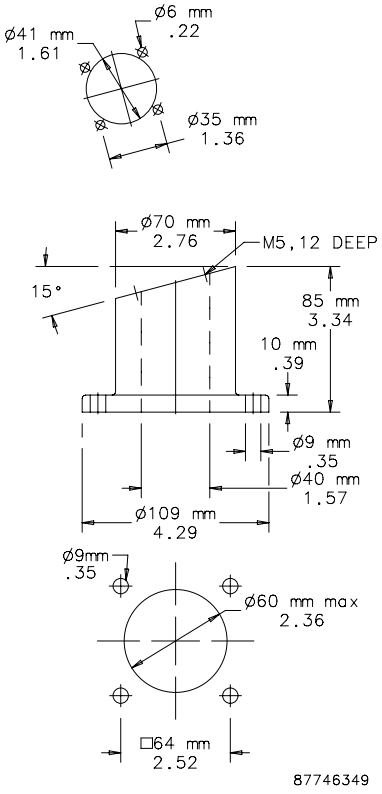
NOTE: Recommended mounting hole size shown.

BASE BRACKET ANGLE COUPLING

Rigid 15-degree coupling for direct mounting of enclosures to horizontal and vertical surfaces. Type 304 polished stainless steel finish. Includes gaskets and enclosure mounting hardware. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48ACBB	Base bracket angle coupling	1.9	4.5



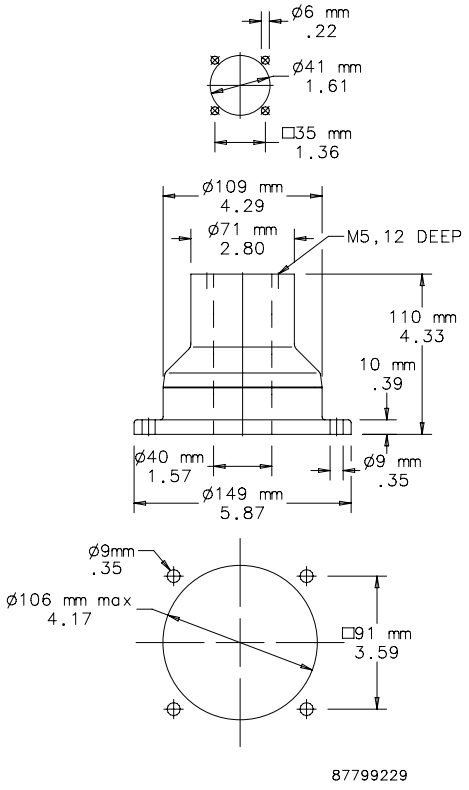
NOTE: Recommended mounting hole size shown.

SWIVEL BASE EXTERNAL BRACKET COUPLING

Swivel Base External Bracket Coupling for mounting enclosures directly to a machine or the floor. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets and enclosure mounting hardware. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48BBCRE	Swivel base external bracket coupling	4.5	9.92



NOTE: Recommended mounting hole size shown.

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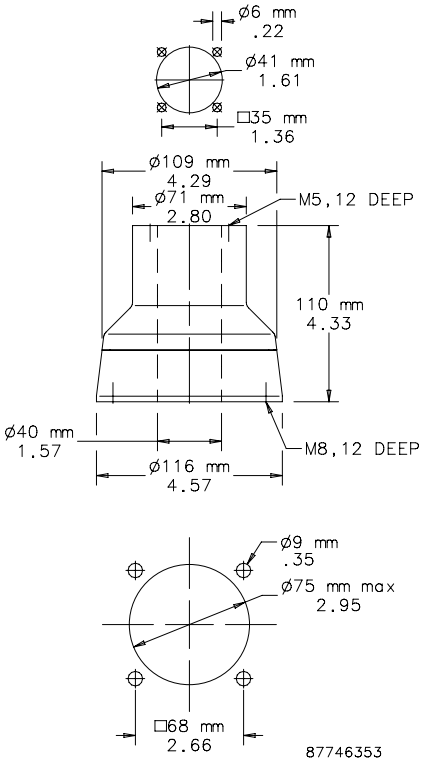
SWIVEL BASE INTERNAL BRACKET COUPLING

Swivel Base Internal Bracket Coupling for directly mounting enclosures to a machine or the floor. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets and enclosure mounting hardware. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48BBCRI	Swivel base internal bracket coupling	4.1	9.03

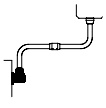


NOTE: Recommended mounting hole size shown.

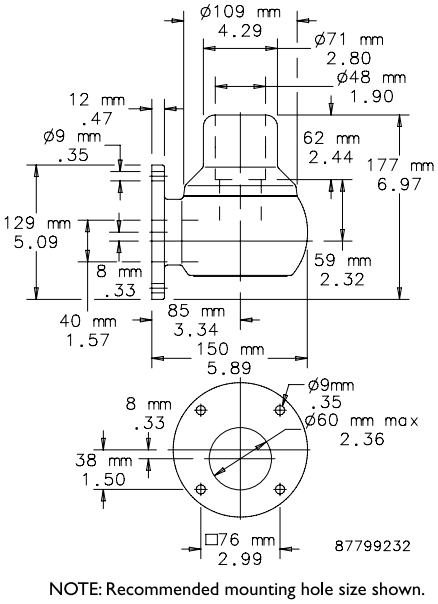
WALL JOINT

Wall Joint with vertical socket for mounting to vertical surfaces. Cover to facilitate wiring. Turns through 340 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets. Wall-mounting fasteners not provided.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48WJV	Wall joint, vertical mount	7.3	16.09



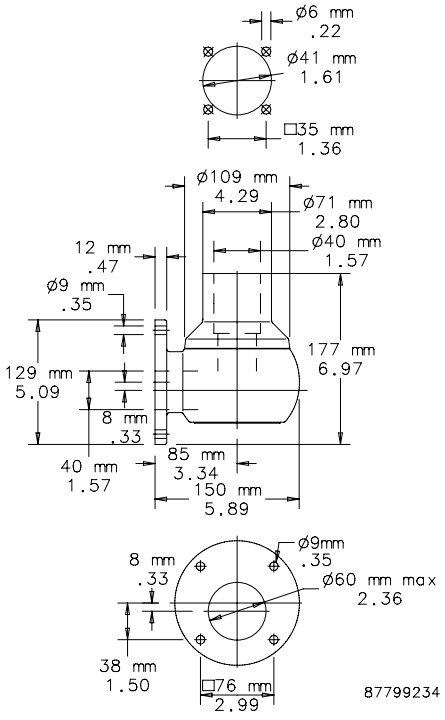
NOTE: Recommended mounting hole size shown.

WALL COUPLING

Swivel Wall Coupling for direct mounting of enclosure to vertical machine surfaces. Turns through 340 degrees with rotation limiter. Cover to facilitate wiring. Preset torque. Maintenance-free bearings. Type 304 polished stainless steel finish. Includes gaskets and enclosure mounting hardware. Wall-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48WJC	Wall coupling, vertical mount	7.3	16.09

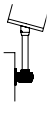


NOTE: Recommended mounting hole size shown.

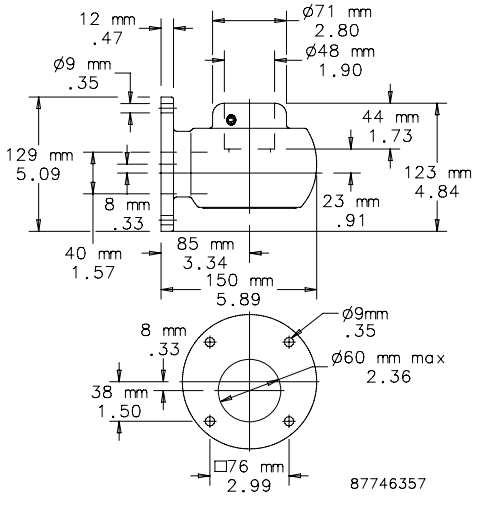
WALL BRACKET

Wall Bracket with vertical socket for attachment to vertical surfaces. Cover to facilitate wiring. Type 304 polished stainless steel finish. Includes gaskets. Wall-mounting fasteners not included.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSS48WJRV	Wall bracket	7.7	16.25



NOTE: Recommended mounting hole size shown.

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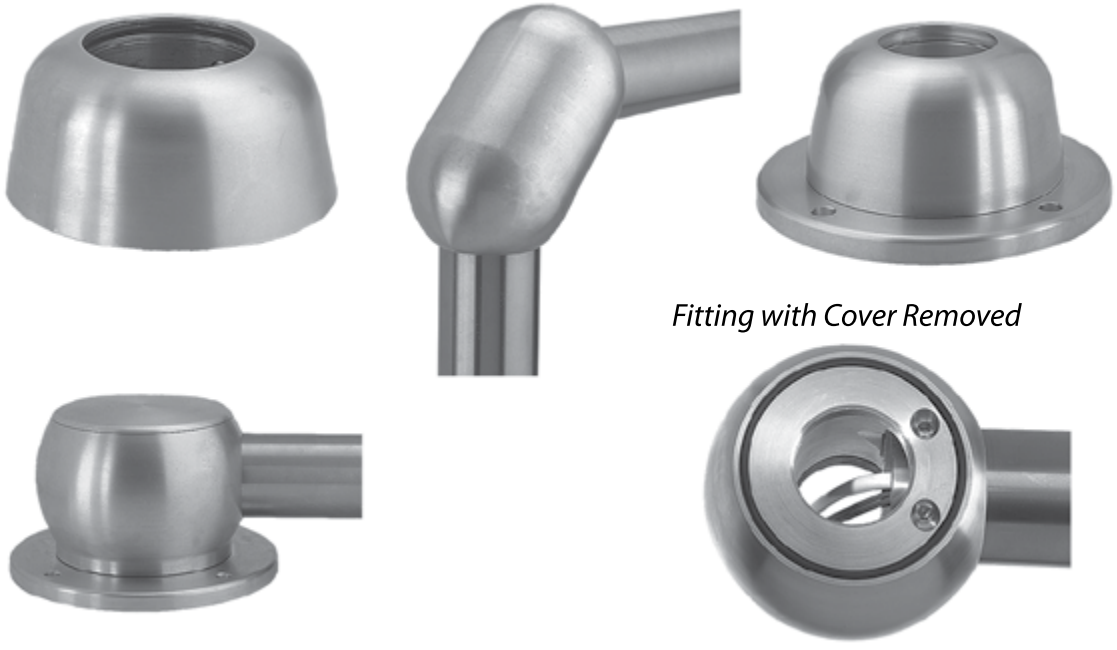
CS600 STAINLESS STEEL PENDANT ARM SYSTEM



Fitting with Cover Removed

INDUSTRY STANDARDS

IEC 60529, IP66

APPLICATION

Like the CS480 System, the CS600 Stainless Steel Pendant Arm System performs extremely well in applications that require corrosion resistance and suspension of process and control equipment for easy cleaning and washdown. CS600 is recommended for use with Stainless Steel HMI Enclosures with CS600 pendant cutout. Also like the CS480 System, the CS600 System has a wide variety of available components and a high degree of design configuration flexibility. (For possible design combinations, see the System Combinations Drawings.)

The difference between the CS480 System and the CS600 System is that CS600 is used for heavier loads, with a load rating at 3.3 ft. (1 m) of 134.89 lb. (61.3 kg). Ratings for other loads are shown in the Load Capacity chart.

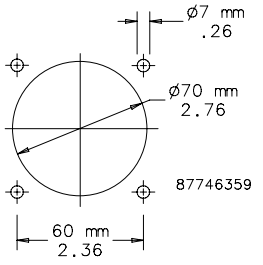
SPECIFICATIONS

- Tubing clamps into position for easy assembly and smooth appearance
- No external screws to trap dirt
- Fixed or swivel mounting, straight or at a 15-degree angle
- 90-degree fittings have a removable cover that allows easy access for wiring
- Anti-vibration capability
- The coupling hole geometries for enclosure machining are shown in the Coupling Hole diagram

FINISH

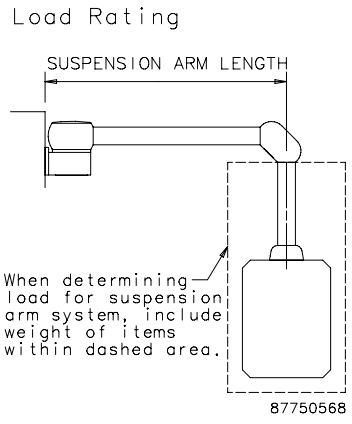
Tubing: Type 304 Stainless Steel
Fittings: Type 304 Stainless Steel

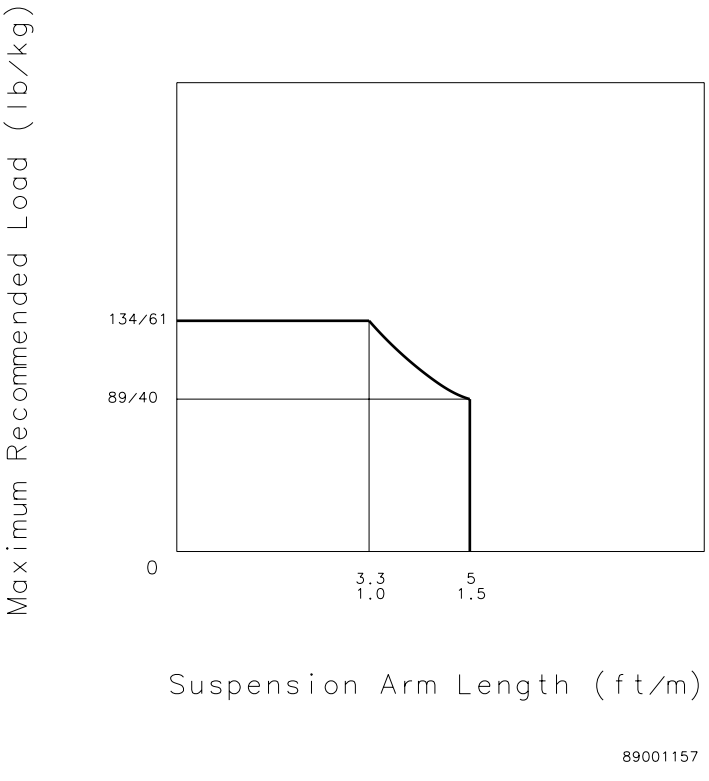
Coupling Hole Geometry
for Enclosure Machining



SYSTEM LOAD CAPACITY

The load capacity of the CS600 Pendant Arm System is shown in the chart and diagram.





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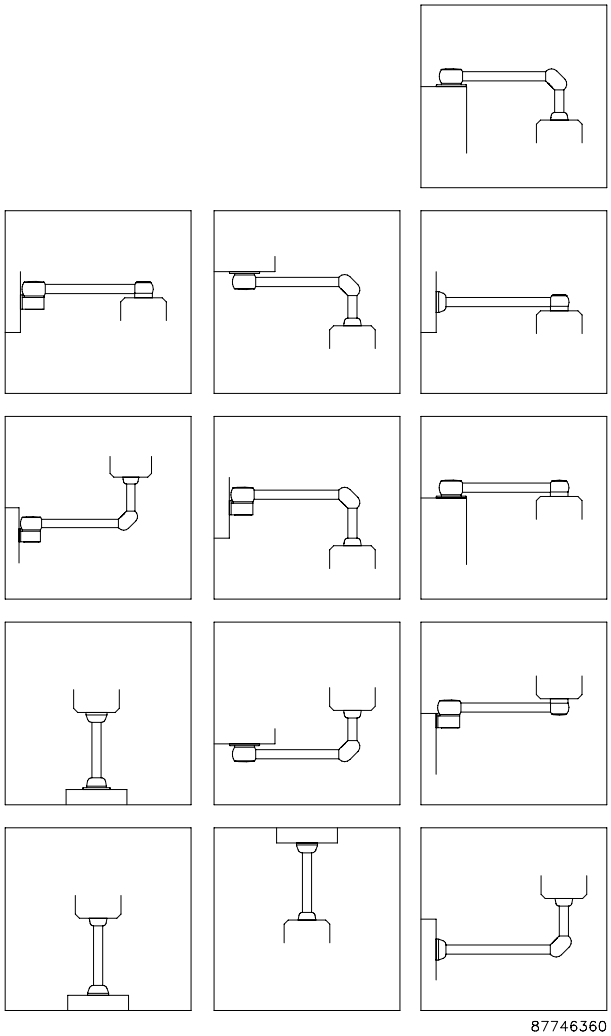
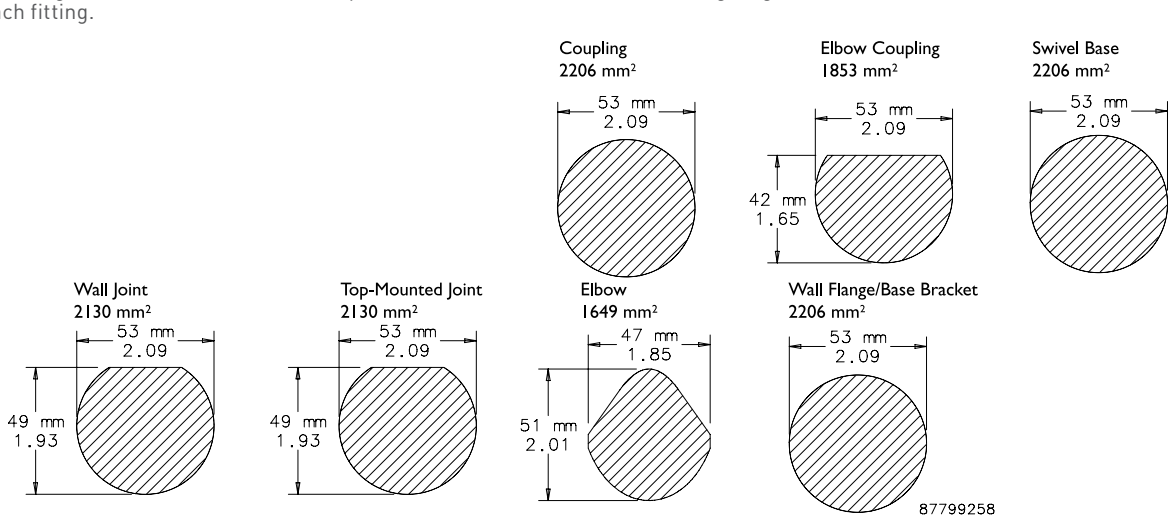
SYSTEM COMBINATIONS

The wide variety of components permits a high level of flexibility in configuring the system. Some possible combinations are shown here.



CABLE ENTRY SPACE

Different fittings offer different amounts of space for cables and leads. The drawing diagram shows the dimensions at the narrowest point inside each fitting.

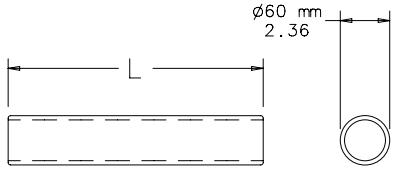


TUBING

Tubes have 60.3-mm (2.37-in.) outer diameter and are made from 3.6-mm wall thickness stainless steel.

BULLETIN: CCR6

Catalog Number	L mm/in.	Product Weight (kg)	Product Weight (lb.)
CCSST25	250 9.84	1.18	2.6
CCSST50	500 19.69	2.36	5.2
CCSST75	750 29.53	3.40	7.5
CCSST100	1000 39.37	4.63	10.2
CCSST125	1250 49.21	5.85	12.9
CCSST150	1500 59.06	15.30	6.94

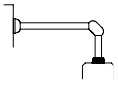


87799239

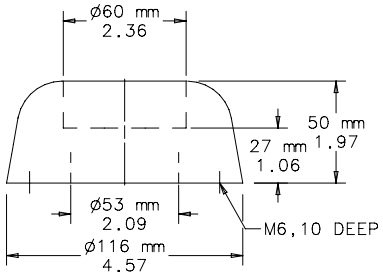
COUPLING

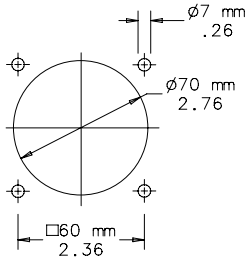
Flange coupling for mounting enclosures. Turns through 300 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Includes gaskets and mounting hardware.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSFC	Stainless steel	2.18	4.8





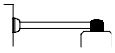
87746361

NOTE: Recommended mounting hole size shown.

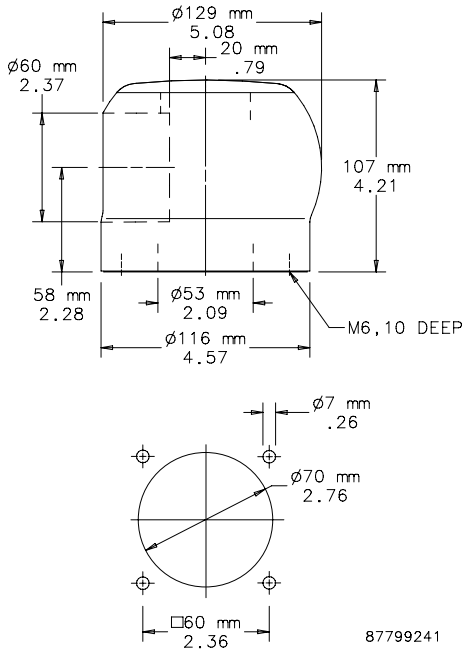
ELBOW COUPLING

Flange Elbow Coupling for attaching enclosures. Assembly aperture cover conceals screws for easier cleaning. Turns through 300 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Includes gaskets and mounting hardware.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSEC	Stainless Steel	6.49	14.3

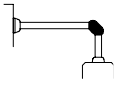


NOTE: Recommended mounting hole size shown.

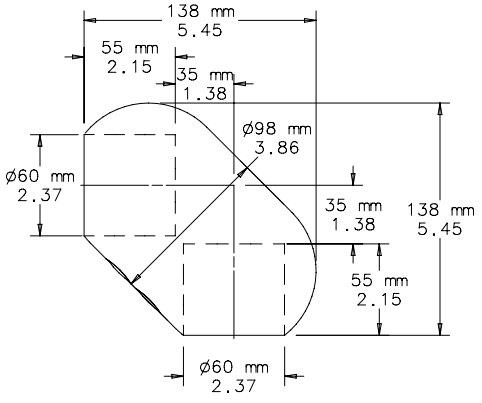
ELBOW

Elbow for connecting two tubes at 90 degrees. Includes screw cover and gaskets.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSE	Stainless Steel	4.45	9.8

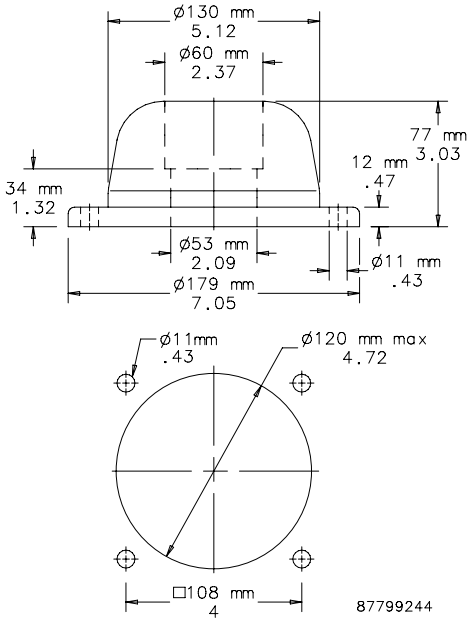


SWIVEL BASE

Swivel Base for mounting to machine or floor. Turns through 300 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Includes gaskets. Base-mounting fasteners not provided.

BULLETIN: CCR6

Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSBBT	Stainless Steel	5.72	12.6

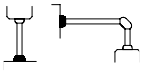


NOTE: Recommended mounting hole size shown.

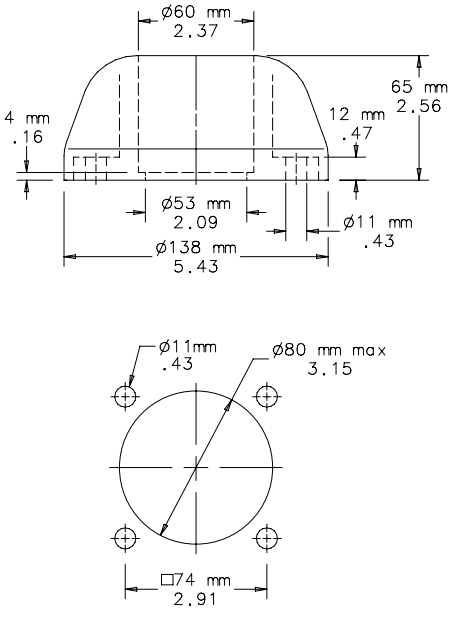
BASE BRACKET/WALL FLANGE

Base Bracket or Wall Flange for mounting to horizontal and vertical surfaces. Includes gaskets. Base-mounting fasteners not provided.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSWFB	Stainless Steel	3.67	8.1

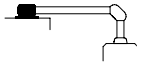


NOTE: Recommended mounting hole size shown.

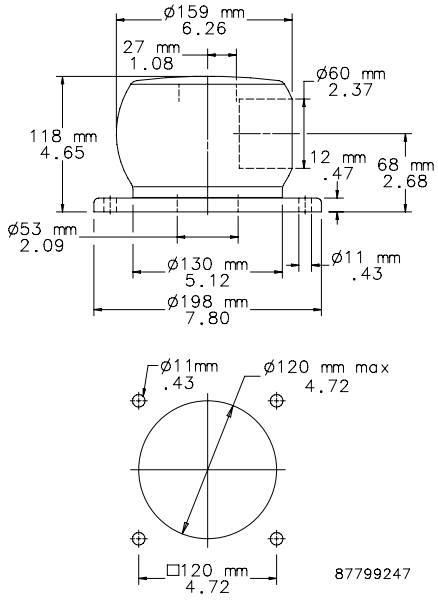
TOP-MOUNTED JOINT

Top-Mounted Joint for mounting to horizontal surfaces. Assembly aperture cover conceals screws for easier cleaning. Turns through 300 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Includes gaskets. Wall-mounting fasteners not provided.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSSJ	Stainless steel	13.65	30.1

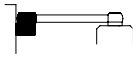


NOTE: Recommended mounting hole size shown.

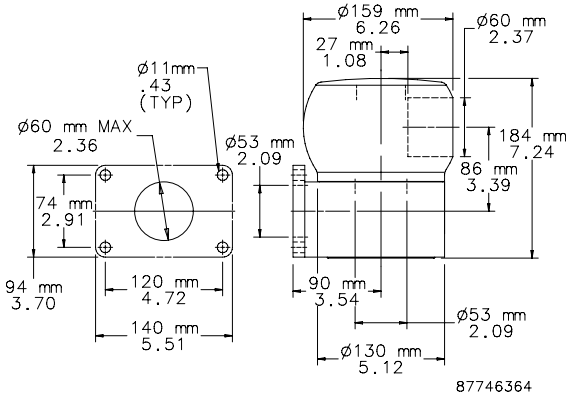
WALL JOINT

Wall Joint for mounting to vertical surfaces. Assembly aperture cover conceals screws for easier cleaning. Turns through 300 degrees with rotation limiter. Preset torque. Maintenance-free bearings. Includes gaskets. Wall-mounting fasteners not provided.

BULLETIN: CCR6



Catalog Number	Description	Product Weight (kg)	Product Weight (lb.)
CCSSWJ	Stainless steel	16.01	35.3



Notes

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PEDESTALS

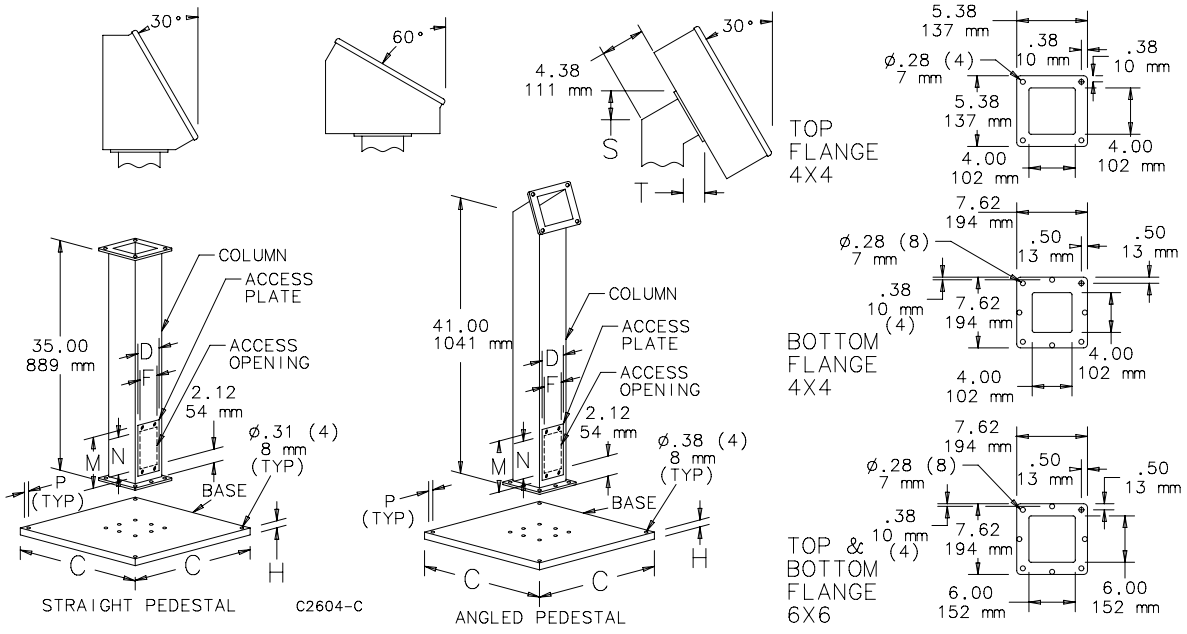
Pedestals enable many types of enclosures and boxes to be floor mounted. Four columns and two bases are available. Columns can be mounted on either base, through the vertical column or directly to the enclosure. A cutout must be made in the enclosure if the wires are to come through the column.

Columns have flanges at each end and a gasketed access plate. Screws, oil-resistant gaskets and box connector fitting are furnished with each column for joining an enclosure to the top of the column. Columns are 14 gauge steel with 10 gauge flanges. 18.00 x 18.00-in. (457 x 457-mm) base is .19-in. (5-mm) steel and 24.00 x 24.00-in. (610 x 610-mm) base is .25-in. (6-mm) steel. Both bases have leveling screws and holes for bolting to the floor. Finish on bases and columns is ANSI 61 gray polyester powder coating over pretreated surfaces. Bases and columns must be ordered separately.

The user would normally remove the mounting brackets from the enclosure if the enclosure is mounted on a pedestal. Hoffman can supply enclosures without mounting brackets and with cutouts. Consult Hoffman for more information.

BULLETIN: P1

Catalog Number	AxBxC mm/in.	Description	C mm/in.	D mm/in.	F mm/in.	H mm/in.	M mm/in.	N mm/in.	P mm/in.	S mm/in.	T mm/in.
A44CC0L	889 x 102 x 102	Straight Pedestal Column	—	95	70	—	184	152	—	—	—
	35.00 x 4.00 x 4.00		—	3.75	2.75	—	7.25	6.00	—	—	—
A44PBC0L	1041 x 102 x 102	Angled Pedestal Column	—	95	70	—	184	152	—	70	52
	41.00 x 4.00 x 4.00		—	3.75	2.75	—	7.25	6.00	—	2.75	2.06
A66CC0L	889 x 152 x 152	Straight Pedestal Column	—	146	121	—	203	171	—	—	—
	35.00 x 6.00 x 6.00		—	5.75	4.75	—	8.00	6.75	—	—	—
A66PBC0L	1041 x 152 x 152	Angled Pedestal Column	—	146	121	—	203	171	—	73	28
	41.00 x 6.00 x 6.00		—	5.75	4.75	—	8.00	6.75	—	2.88	1.12
A18SBASE	457 x 457	Pedestal Base	457	—	—	25	—	—	16	—	—
	18.00 x 18.00		18.00	—	—	1.00	—	—	.62	—	—
A24SBASE	610 x 610	Pedestal Base	610	—	—	28	—	—	17	—	—
	24.00 x 24.00		24.00	—	—	1.12	—	—	.69	—	—



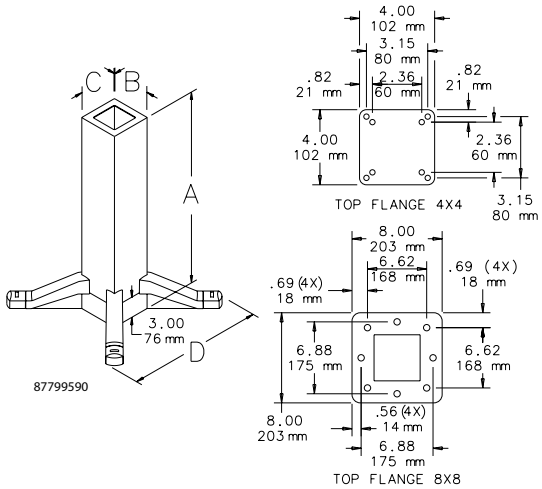
PEDESTAL WITH LEGS

Pedestal is available in two heights. Vertical tube has rigid one-piece construction. Bottom of tube is open. Four sturdy, die-cast legs bolt to vertical tube. Legs have holes for bolting pedestal to the floor. Legs will accept casters in limited applications. Heavy-duty black polymer caps fit on ends of legs to cover bolts or levelers. Pedestal has ANSI 61 medium-gray or RAL 7035 textured light-gray polyester powder paint finish. Tapped mounting holes in the top of pedestal allow attachment to HMI base with cutout, swivel, swivel tilt or angle adapter. Hardware and gasket to attach enclosure are included.

- Use 4.00 x 4.00-in. (102 x 102-mm) pedestal with CONCEPT HMI and INLINE HMI Enclosures
- Use 8.00 x 8.00-in. (203 x 203-mm) pedestal with PROLINE Sloped-Front Enclosures

BULLETIN: P1

Catalog Number	AxBxC mm/in.	Finish	Description	D mm/in.
AP26L44	660 x 102 x 102 26.00 x 4.00 x 4.00	ANSI 61	Steel	600 23.62
AP26L44LG	660 x 102 x 102 26.00 x 4.00 x 4.00	RAL 7035	Steel	600 23.62
AP36L44	914 x 102 x 102 36.00 x 4.00 x 4.00	ANSI 61	Steel	600 23.62
AP36L44LG	914 x 102 x 102 36.00 x 4.00 x 4.00	RAL 7035	Steel	600 23.62
AP26L88	660 x 203 x 203 26.00 x 8.00 x 8.00	ANSI 61	Steel	702 27.62
AP26L88LG	660 x 203 x 203 26.00 x 8.00 x 8.00	RAL 7035	Steel	702 27.62
AP36L88	914 x 203 x 203 36.00 x 8.00 x 8.00	ANSI 61	Steel	702 27.62
AP36L88LG	914 x 203 x 203 36.00 x 8.00 x 8.00	RAL 7035	Steel	702 27.62



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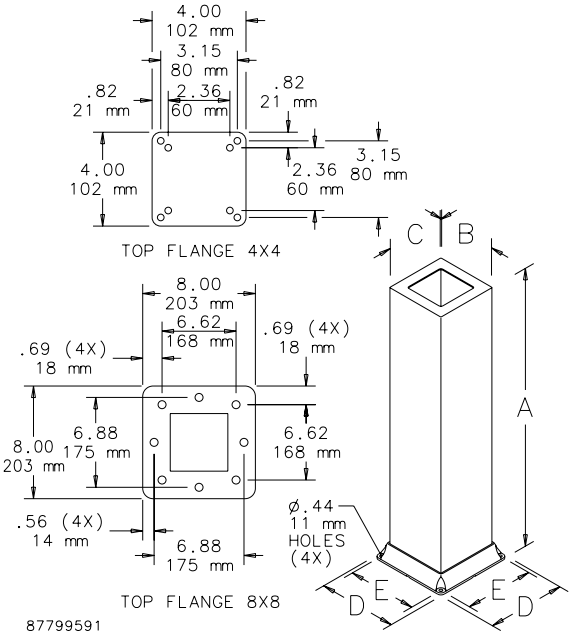
BOLT-DOWN PEDESTAL

Bolt-Down Pedestal is available in two heights. The vertical tube has rigid one-piece construction. Rigid cast aluminum base flanges bolt to the vertical tube. Pedestal has ANSI 61 medium-gray or RAL 7035 textured light-gray polyester powder paint finish. Tapped mounting holes in the top of pedestal allow attachment to operator interface base with cutout, swivel, swivel tilt or angle adapter. Hardware and gasket to attach enclosure are included.

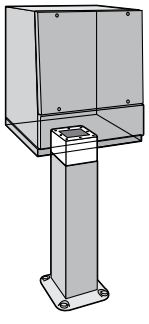
- Use 4.00 x 4.00-in. (102 x 102-mm) pedestal with CONCEPT HMI and INLINE HMI Enclosures
- Use 8.00 x 8.00-in. (203 x 203-mm) pedestal with PROLINE Sloped-Front Enclosures

BULLETIN: P1

Catalog Number	AxBxC mm/in.	Finish	Description	D mm/in.	E mm/in.
AP23B44	584 x 102 x 102 23.00 x 4.00 x 4.00	ANSI 61	Steel	159 6.26	133 5.25
AP23B44LG	584 x 102 x 102 23.00 x 4.00 x 4.00	RAL 7035	Steel	159 6.26	133 5.25
AP33B44	838 x 102 x 102 33.00 x 4.00 x 4.00	ANSI 61	Steel	159 6.26	133 5.25
AP33B44LG	838 x 102 x 102 33.00 x 4.00 x 4.00	RAL 7035	Steel	159 6.26	133 5.25
AP23B88	584 x 203 x 203 23.00 x 8.00 x 8.00	ANSI 61	Steel	260 10.25	235 9.25
AP23B88LG	584 x 203 x 203 23.00 x 8.00 x 8.00	RAL 7035	Steel	260 10.25	235 9.25
AP33B88	838 x 203 x 203 33.00 x 8.00 x 8.00	ANSI 61	Steel	260 10.25	235 9.25
AP33B88LG	838 x 203 x 203 33.00 x 8.00 x 8.00	RAL 7035	Steel	260 10.25	235 9.25



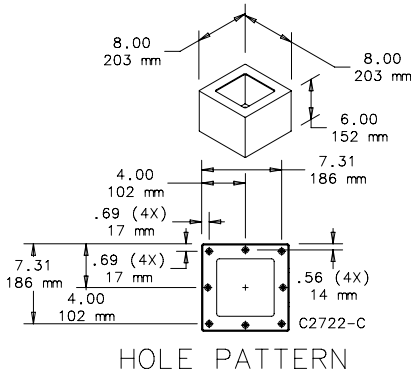
EXTENSION



Pedestal Extension can be used with pedestals to provide additional 6 in. (152 mm) of height for standing position. ANSI 61 medium-gray polyester powder paint or RAL 7035 textured light-gray polyester powder paint.

BULLETIN: P1

Catalog Number	AxBxC in./mm	Finish	Description
APE688	6.00 x 8.00 x 8.00 152 x 203 x 203	ANSI 61	Steel
APE688LG	6.00 x 8.00 x 8.00 152 x 203 x 203	RAL 7035	Steel

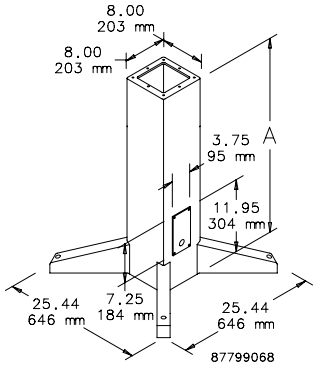


STAINLESS STEEL PEDESTAL

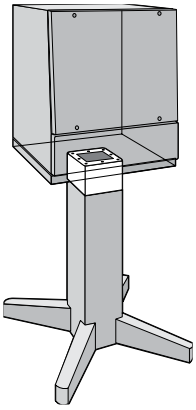
Pedestal is 36-in. (914-mm) tall and provides optimal viewing and operating height. Tube is 14 gauge Type 304 one-piece construction. Legs are 7 gauge Type 304 for rigidity. Cable access plate and leg levelers are included. Leg levelers can be removed for anchoring pedestal to floor. Pedestal has smooth vertical brushed finish. *Pedestal will accept pedestal accessories that are not stainless steel. These include swivel tilt, swivel and angle adapters.*

BULLETIN: P1S

Catalog Number	A in./mm	Description
AP36SS	36.00 914	Stainless steel



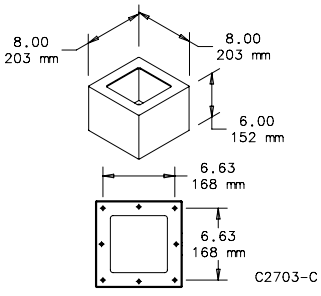
STAINLESS STEEL EXTENSION



Pedestal Extension can be ordered separately to provide additional 6 in. (152 mm) of height for standing position. Extension is 14 gauge Type 304 stainless steel with a smooth brushed finish.
Extension will accept pedestal accessories that are not stainless steel. These include swivel tilt, swivel and angle adapters.

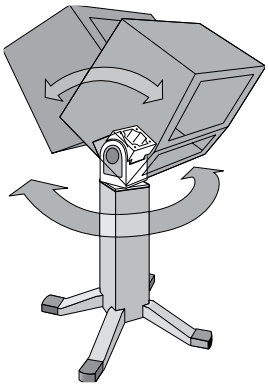
BULLETIN: P1S

Catalog Number	Description
APE6SS	Stainless steel



HOLE PATTERN

SWIVEL TILT

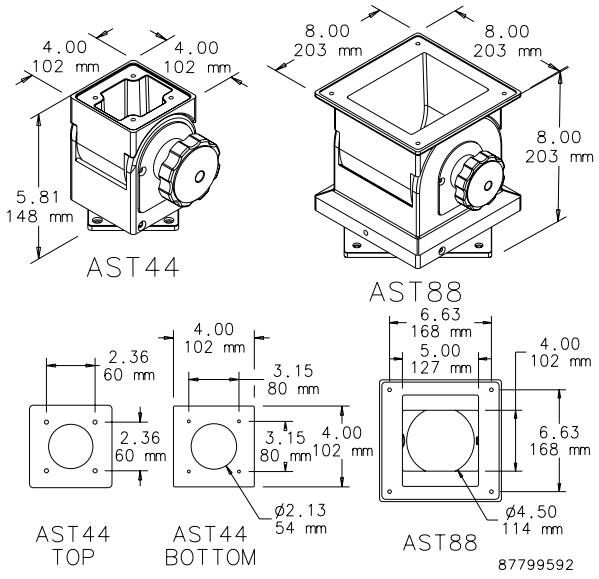


The use of a combination swivel and tilt mechanism allows a machine operator to rotate and also tilt an HMI enclosure for optimum viewing and safe operation. The Swivel Tilt is designed for use between the bottom of an HMI enclosure and a pedestal (enclosure reinforcement may be required).

Do not use the Swivel Tilt between an overhead support and an enclosure.

The swivel feature allows maximum rotation of 350 degrees. Integral stops are provided at 30-degree increments between 60 degrees and 180 degrees of rotation. Swivel can be locked in any position. Tilt feature allows forward and backward movement up to 30 degrees from horizontal. Tilt lock has a large release knob that allows quick incremental adjustment. Top and bottom flanges allow easy installation on pedestals. A large center opening accommodates control cables that have attached plugs. Swivel Tilt is cast aluminum with an anodized finish. Mounting hardware and gaskets are furnished.

BULLETIN: P1



Catalog Number	AxBxC mm/in.	Maximum Enclosure Size A x B x C mm/in.	Maximum Load Including Enclosure (kg)	Maximum Load Including Enclosure (lb.)
AST44	148 x 102 x 102 5.81 x 4.00 x 4.00	610 x 610 x 406 24.00 x 24.00 x 16.00	34.0	75
AST88	203 x 203 x 203 8.00 x 8.00 x 8.00	838 x 610 x 610 33.0 x 24.00 x 24.00	68.0	150

The loads listed assume that the additional load is centered on the front or back of the enclosure. Please contact Hoffman for specific application information.

SWIVEL

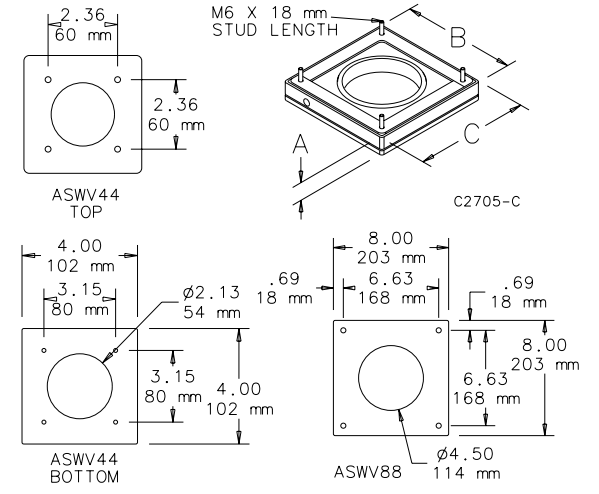
A swivel mechanism can be used to provide a machine operator a way to easily rotate an operator interface enclosure to a convenient operating position. Maximum rotation is 350 degrees. The low-profile swivel has a large center opening in addition to a large, wobble-free bearing surface. Swivel mechanism can be locked in any position. The swivel mechanism is designed for use between the bottom of an operator interface enclosure and a pedestal.

Do not use the Swivel between an overhead support and an enclosure.

The Swivel is cast aluminum with an anodized finish. Mounting hardware and gaskets are furnished.

Integral stops are provided at 30-degree increments between 60 degrees and 180 degrees of rotation on catalog number ASWV88 only.

BULLETIN: P1



Catalog Number	AxBxC mm/in.	Maximum Enclosure Size A x B x C mm/in.	Maximum Load Including Enclosure (kg)	Maximum Load Including Enclosure (lb.)
ASWV44	27 x 102 x 102 1.06 x 4.00 x 4.00	610 x 610 x 406 24.00 x 24.00 x 16.00	45.4	100
ASWV88	33 x 203 x 203 1.28 x 8.00 x 8.00	838 x 610 x 610 33.00 x 24.00 x 24.00	90.7	200

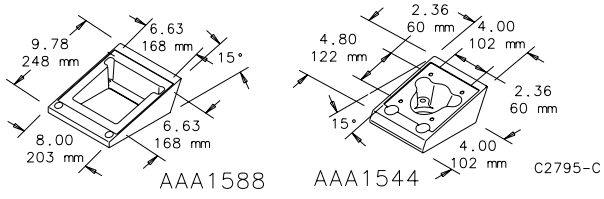
The loads listed assume that the additional load is centered on the front or back of the enclosure. Please contact Hoffman for specific application information.

ANGLE ADAPTER

Angle Adapter fits top of pedestal and provides a fixed tilt of 15 degrees from horizontal for enclosure mounting. Angle Adapter is aluminum with large cable opening and has clear anodized aluminum finish. Mounting hardware is included.

BULLETIN: P1

Catalog Number	Fits
AAA1544	4 x 4 pedestal
AAA1588	8 x 8 pedestal



HANDLES

Handles attach to sides, top or bottom of sloped front to provide maximum operator control when using the suspension system, swivel or swivel tilt. Location dimples on the sides of sloped fronts indicate drill-hole location for standard mounting. Handles attach inside enclosure.

BULLETIN: P1

Catalog Number	Description	Fits
PUHK	(2) die-cast aluminum handles (9.75 in./248 mm)	PROLINE Sloped-Fronts
PUHKA	(2) tubular steel handles with soft coating (9.75 in./248 mm)	PROLINE Sloped-Fronts

PEDESTAL CASTER KITS

Casters can be used on pedestals in limited applications. They are attached to the die-cast legs of steel Pedestals. Four dual-wheel casters replace furnished levelers.

BULLETIN: C1, DEC1

Catalog Number	Description	Number of Casters	Height (in.)	Height (mm)	Wheel Dia. (in.)	Wheel Dia. (mm)	Load Rating Ea. (lb.)	Load Rating Ea. (kg)
AC4M6SV	Casters, swivel type with brakes	2	3.72	94	3.00	76	210	95
AC4M6ST	Casters, stationary type	2	3.72	94	3.00	76	210	95

Two sets of AC4M6SV and AC4M6ST casters are required.

Height columns show height of caster when installed.

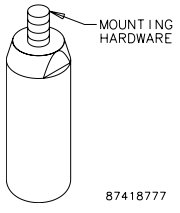
STAINLESS STEEL LEGS

Legs mount to the bottom of a solid base to elevate the enclosure 4 in. (100 mm) from the floor. The legs are made of Type 304 stainless steel and are appropriate for hose-down applications. Mounting hardware is included.

NOTE: These legs will not fit on the PROLINE G2 Fully-Sealed Plinth Base.

BULLETIN: P20S

Catalog Number	Description
PLEGSS	(4) Stainless Steel Legs



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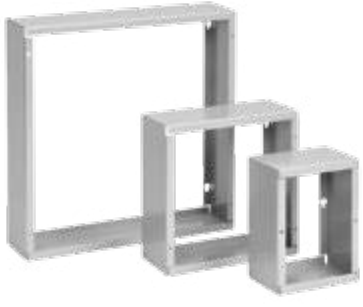
CHAPTER 8
COMMERCIAL



SCREW-COVER PULL BOX EXTENDER, TYPE 1

These Type 1 pull box extenders instantly increase wire capacity of an existing installation without removing the existing pull box and reduces the need for custom pull box sizes during installation, saving you time and money.

SCREW COVER, PULL BOX, TYPE 4X

These type 4X screw-cover pull boxes and troughs provide a simple, cost-effective solution to quickly meet your project requirements in multiple applications.

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SCREW-COVER, TYPE 1

APPLICATION

Use this enclosure in commercial and general industrial applications that require a junction or pull box. For flush installations, order flush covers and door frames separately.

FEATURES

- Flat, removable covers with unique keyhole slots fastened with plated steel screws
- Optional easy-to-remove knockouts on all four sides of the enclosure in various sizes.
- Optional flush-mounted door frame and flush cover available
- Provision for grounding
- Mounting holes on back of box

SPECIFICATIONS

- 16, 14 or 12 gauge steel or plated steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out. Unless otherwise specified, all custom pull boxes are finished with ANSI 61 gray polyester powder paint.

ACCESSORIES

Flush Covers, page 756
Flush-Mount Door Frames, page 757
Grounding Device, page 1386
Type 1 Locking Window Pull Box Accessory, page 758
Touch-Up Paint, page 1379

BULLETIN: A90P1

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27525
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27525

NEMA/EEMAC Type 1
IEC 60529, IP30

Standard Product **Screw-Cover Type 1 Pull Boxes with Knockouts**

Catalog Number	AxBxC in.	AxBxC mm	Style	Body Thickness (ga.)	Cover Thickness (ga.)	Number of Cover Screws	Knockout Pattern Along "A" Sides	Knockout Pattern Along "B" Sides
ASE4X4X3	4.00 x 4.00 x 3.00	102 x 102 x 76	Painted	16	16	2	B-C	B-C
ASG4X4X3	4.00 x 4.00 x 3.00	102 x 102 x 76	Galvanized	16	16	2	B-C	B-C
ASE6X6X3	6.00 x 6.00 x 3.00	152 x 152 x 76	Painted	16	16	2	B-C-D	B-C-D
ASG6X6X3	6.00 x 6.00 x 3.00	152 x 152 x 76	Galvanized	16	16	2	B-C-D	B-C-D
ASE8X6X3	8.00 x 6.00 x 3.00	203 x 152 x 76	Painted	16	16	2	F-G-H-I	B-C-D
ASG8X6X3	8.00 x 6.00 x 3.00	203 x 152 x 76	Galvanized	16	16	2	F-G-H-I	B-C-D
ASE16X14X3	16.00 x 14.00 x 3.00	406 x 356 x 76	Painted	16	16	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASE18X14X3	18.00 x 14.00 x 3.00	457 x 356 x 76	Painted	16	16	4	A-B-C-D-E-F-G-H-I	B-C-D-E-F-G-H
ASE4X4X4	4.00 x 4.00 x 4.00	102 x 102 x 102	Painted	16	16	2	B-C	B-C
ASG4X4X4	4.00 x 4.00 x 4.00	102 x 102 x 102	Galvanized	16	16	2	B-C	B-C
ASE6X4X4	6.00 x 4.00 x 4.00	152 x 102 x 102	Painted	16	16	2	B-C-D	B-C
ASG6X4X4	6.00 x 4.00 x 4.00	152 x 102 x 102	Galvanized	16	16	2	B-C-D	B-C
ASE6X6X4	6.00 x 6.00 x 4.00	152 x 152 x 102	Painted	16	16	2	B-C-D	B-C-D
ASG6X6X4	6.00 x 6.00 x 4.00	152 x 152 x 102	Galvanized	16	16	2	B-C-D	B-C-D
ASE8X6X4	8.00 x 6.00 x 4.00	203 x 152 x 102	Painted	16	16	2	F-G-H-I	B-C-D
ASG8X6X4	8.00 x 6.00 x 4.00	203 x 152 x 102	Galvanized	16	16	2	F-G-H-I	B-C-D
ASE8X8X4	8.00 x 8.00 x 4.00	203 x 203 x 102	Painted	16	16	4	F-G-H-I	F-G-H-I
ASG8X8X4	8.00 x 8.00 x 4.00	203 x 203 x 102	Galvanized	16	16	4	F-G-H-I	F-G-H-I
ASE10X8X4	10.00 x 8.00 x 4.00	254 x 203 x 102	Painted	16	16	4	F-G-H-I	F-G-H-I
ASG10X8X4	10.00 x 8.00 x 4.00	254 x 203 x 102	Galvanized	16	16	4	F-G-H-I	F-G-H-I
ASE10X10X4	10.00 x 10.00 x 4.00	254 x 254 x 102	Painted	16	16	4	F-G-H-I	C-D-E-F-G
ASG10X10X4	10.00 x 10.00 x 4.00	254 x 254 x 102	Galvanized	16	16	4	F-G-H-I	C-D-E-F-G
ASE12X8X4	12.00 x 8.00 x 4.00	305 x 203 x 102	Painted	16	16	4	C-D-E-F-G	F-G-H-I
ASG12X8X4	12.00 x 8.00 x 4.00	305 x 203 x 102	Galvanized	16	16	4	C-D-E-F-G	F-G-H-I
ASE12X10X4	12.00 x 10.00 x 4.00	305 x 254 x 102	Painted	16	16	4	C-D-E-F-G	C-D-E-F-G
ASG12X10X4	12.00 x 10.00 x 4.00	305 x 254 x 102	Galvanized	16	16	4	C-D-E-F-G	C-D-E-F-G
ASE12X12X4	12.00 x 12.00 x 4.00	305 x 305 x 102	Painted	16	16	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X4	12.00 x 12.00 x 4.00	305 x 305 x 102	Galvanized	16	16	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X4	16.00 x 12.00 x 4.00	406 x 305 x 102	Painted	16	16	4	B-C-D-E-F-G-H	C-D-E-F-G
ASG16X12X4	16.00 x 12.00 x 4.00	406 x 305 x 102	Galvanized	16	16	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE18X12X4	18.00 x 12.00 x 4.00	457 x 305 x 102	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASG18X12X4	18.00 x 12.00 x 4.00	457 x 305 x 102	Galvanized	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X4	18.00 x 18.00 x 4.00	457 x 457 x 102	Painted	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG18X18X4	18.00 x 18.00 x 4.00	457 x 457 x 102	Galvanized	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X12X4	24.00 x 12.00 x 4.00	610 x 305 x 102	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X24X4	24.00 x 24.00 x 4.00	610 x 610 x 102	Painted	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X24X4	24.00 x 24.00 x 4.00	610 x 610 x 102	Galvanized	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X4	30.00 x 24.00 x 4.00	762 x 610 x 102	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE6X6X6	6.00 x 6.00 x 6.00	152 x 152 x 152	Painted	16	16	2	B-C-D	B-C-D
ASG6X6X6	6.00 x 6.00 x 6.00	152 x 152 x 152	Galvanized	16	16	2	B-C-D	B-C-D
ASE8X6X6	8.00 x 6.00 x 6.00	203 x 152 x 152	Painted	16	16	4	F-G-H-I	B-C-D

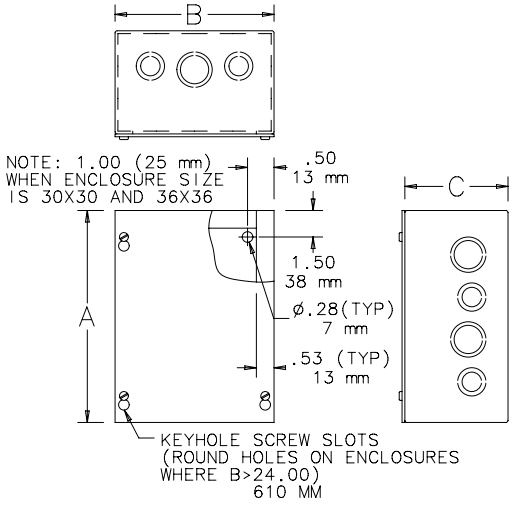
Catalog Number	AxBxC in.	AxBxC mm	Style	Body Thickness (ga.)	Cover Thickness (ga.)	Number of Cover Screws	Knockout Pattern Along "A" Sides	Knockout Pattern Along "B" Sides
ASE8X8X6	8.00 x 8.00 x 6.00	203 x 203 x 152	Painted	16	16	4	F-G-H-I	F-G-H-I
ASG8X8X6	8.00 x 8.00 x 6.00	203 x 203 x 152	Galvanized	16	16	4	F-G-H-I	F-G-H-I
ASE10X8X6	10.00 x 8.00 x 6.00	254 x 203 x 152	Painted	16	16	4	F-G-H-I	F-G-H-I
ASG10X8X6	10.00 x 8.00 x 6.00	254 x 203 x 152	Galvanized	16	16	4	F-G-H-I	F-G-H-I
ASE10X10X6	10.00 x 10.00 x 6.00	254 x 254 x 152	Painted	16	16	4	F-G-H-I	C-D-E-F-G
ASG10X10X6	10.00 x 10.00 x 6.00	254 x 254 x 152	Galvanized	16	16	4	F-G-H-I	C-D-E-F-G
ASE12X10X6	12.00 x 10.00 x 6.00	305 x 254 x 152	Painted	16	16	4	C-D-E-F-G	C-D-E-F-G
ASG12X10X6	12.00 x 10.00 x 6.00	305 x 254 x 152	Galvanized	16	16	4	C-D-E-F-G	C-D-E-F-G
ASE12X12X6	12.00 x 12.00 x 6.00	305 x 305 x 152	Painted	16	16	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X6	12.00 x 12.00 x 6.00	305 x 305 x 152	Galvanized	16	16	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X6	16.00 x 12.00 x 6.00	406 x 305 x 152	Painted	16	16	4	B-C-D-E-F-G-H	C-D-E-F-G
ASG16X12X6	16.00 x 12.00 x 6.00	406 x 305 x 152	Galvanized	16	16	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE16X16X6	16.00 x 16.00 x 6.00	406 x 406 x 152	Painted	16	16	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASG16X16X6	16.00 x 15.00 x 6.00	406 x 381 x 152	Galvanized	16	16	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASE18X12X6	18.00 x 12.00 x 6.00	457 x 305 x 152	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASG18X12X6	18.00 x 12.00 x 6.00	457 x 305 x 152	Galvanized	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X6	18.00 x 18.00 x 6.00	457 x 457 x 152	Painted	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG18X18X6	18.00 x 18.00 x 6.00	457 x 457 x 152	Galvanized	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X6	24.00 x 18.00 x 6.00	610 x 457 x 152	Painted	16	14	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X18X6	24.00 x 18.00 x 6.00	610 x 457 x 152	Galvanized	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X6	24.00 x 24.00 x 6.00	610 x 610 x 152	Painted	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X24X6	24.00 x 24.00 x 6.00	610 x 610 x 152	Galvanized	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X6	30.00 x 24.00 x 6.00	762 x 610 x 152	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG30X24X6	30.00 x 24.00 x 6.00	762 x 610 x 152	Galvanized	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X6	36.00 x 24.00 x 6.00	914 x 610 x 152	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE8X8X8	8.00 x 8.00 x 8.00	203 x 203 x 203	Painted	16	16	4	F-G-H-I	F-G-H-I
ASE12X12X8	12.00 x 12.00 x 8.00	305 x 305 x 203	Painted	16	16	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X8	12.00 x 12.00 x 8.00	305 x 305 x 203	Galvanized	16	16	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X8	16.00 x 12.00 x 8.00	406 x 305 x 203	Painted	16	16	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE18X12X8	18.00 x 12.00 x 8.00	457 x 305 x 203	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X12X8	24.00 x 12.00 x 8.00	610 x 305 x 203	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X18X8	24.00 x 18.00 x 8.00	610 x 457 x 203	Painted	16	14	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X8	24.00 x 24.00 x 8.00	610 x 610 x 203	Painted	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X8	30.00 x 24.00 x 8.00	762 x 610 x 203	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X8	36.00 x 24.00 x 8.00	914 x 610 x 203	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE18X12X10	18.00 x 12.00 x 10.00	457 x 305 x 254	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X10	18.00 x 18.00 x 10.00	457 x 457 x 254	Painted	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X10	24.00 x 18.00 x 10.00	610 x 457 x 254	Painted	16	14	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X10	24.00 x 24.00 x 10.00	610 x 610 x 254	Painted	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X10	36.00 x 24.00 x 10.00	914 x 610 x 254	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X12X12	24.00 x 12.00 x 12.00	610 x 305 x 305	Painted	16	16	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X12	18.00 x 18.00 x 12.00	457 x 457 x 305	Painted	16	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X12	24.00 x 18.00 x 12.00	610 x 457 x 305	Painted	16	14	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X12	24.00 x 24.00 x 12.00	610 x 610 x 305	Painted	14	16	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X12	30.00 x 24.00 x 12.00	762 x 610 x 305	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X12	36.00 x 24.00 x 12.00	914 x 610 x 305	Painted	14	16	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I

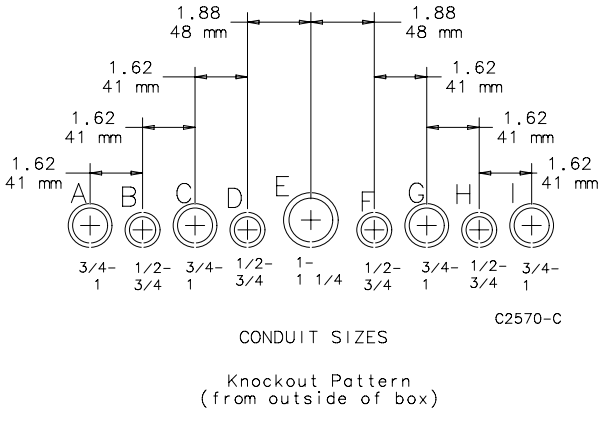
Standard Product **Screw-Cover Type 1 Pull Boxes without Knockouts**

Catalog Number	AxBxC in.	AxBxC mm	Style	Body Thickness (ga.)	Cover Thickness (ga.)	Number of Cover Screws
ASE4X4X3NK	4.00 x 4.00 x 3.00	102 x 102 x 76	Painted	16	16	2
ASG4X4X3NK	4.00 x 4.00 x 3.00	102 x 102 x 76	Galvanized	16	16	2
ASE6X6X3NK	6.00 x 6.00 x 3.00	152 x 152 x 76	Painted	16	16	2
ASG6X6X3NK	6.00 x 6.00 x 3.00	152 x 152 x 76	Galvanized	16	16	2
ASE8X6X3NK	8.00 x 6.00 x 3.00	203 x 152 x 76	Painted	16	16	2
ASG8X6X3NK	8.00 x 6.00 x 3.00	203 x 152 x 76	Galvanized	16	16	2
ASE16X14X3NK	16.00 x 14.00 x 3.00	406 x 356 x 76	Painted	16	16	4
ASE20X14X3NK	20.00 x 14.00 x 3.00	508 x 356 x 76	Painted	16	16	4
ASE4X4X4NK	4.00 x 4.00 x 4.00	102 x 102 x 102	Painted	16	16	2
ASG4X4X4NK	4.00 x 4.00 x 4.00	102 x 102 x 102	Galvanized	16	16	2
ASE6X4X4NK	6.00 x 4.00 x 4.00	152 x 102 x 102	Painted	16	16	2
ASG6X4X4NK	6.00 x 4.00 x 4.00	152 x 102 x 102	Galvanized	16	16	2
ASE6X6X4NK	6.00 x 6.00 x 4.00	152 x 152 x 102	Painted	16	16	2
ASG6X6X4NK	6.00 x 6.00 x 4.00	152 x 152 x 102	Galvanized	16	16	2
ASE8X6X4NK	8.00 x 6.00 x 4.00	203 x 152 x 102	Painted	16	16	2
ASG8X6X4NK	8.00 x 6.00 x 4.00	203 x 152 x 102	Galvanized	16	16	2
ASE8X8X4NK	8.00 x 8.00 x 4.00	203 x 203 x 102	Painted	16	16	4
ASG8X8X4NK	8.00 x 8.00 x 4.00	203 x 203 x 102	Galvanized	16	16	4
ASE10X6X4NK	10.00 x 6.00 x 4.00	254 x 152 x 102	Painted	16	16	4
ASG10X6X4NK	10.00 x 6.00 x 4.00	254 x 152 x 102	Galvanized	16	16	4
ASE10X8X4NK	10.00 x 8.00 x 4.00	254 x 203 x 102	Painted	16	16	4
ASG10X8X4NK	10.00 x 8.00 x 4.00	254 x 203 x 102	Galvanized	16	16	4
ASE10X10X4NK	10.00 x 10.00 x 4.00	254 x 254 x 102	Painted	16	16	4
ASG10X10X4NK	10.00 x 10.00 x 4.00	254 x 254 x 102	Galvanized	16	16	4
ASE12X6X4NK	12.00 x 6.00 x 4.00	305 x 152 x 102	Painted	16	16	4
ASG12X6X4NK	12.00 x 6.00 x 4.00	305 x 152 x 102	Galvanized	16	16	4
ASE12X8X4NK	12.00 x 8.00 x 4.00	305 x 203 x 102	Painted	16	16	4
ASG12X8X4NK	12.00 x 8.00 x 4.00	305 x 203 x 102	Galvanized	16	16	4
ASE12X10X4NK	12.00 x 10.00 x 4.00	305 x 254 x 102	Painted	16	16	4

Catalog Number	AxBxC in.	AxBxC mm	Style	Body Thickness (ga.)	Cover Thickness (ga.)	Number of Cover Screws
ASG12X10X4NK	12.00 x 10.00 x 4.00	305 x 254 x 102	Galvanized	16	16	4
ASE12X12X4NK	12.00 x 12.00 x 4.00	305 x 305 x 102	Painted	16	16	4
ASG12X12X4NK	12.00 x 12.00 x 4.00	305 x 305 x 102	Galvanized	16	16	4
ASE15X15X4NK	15.00 x 15.00 x 4.00	381 x 381 x 102	Painted	16	16	4
ASG15X15X4NK	15.00 x 15.00 x 4.00	381 x 381 x 102	Galvanized	16	16	4
ASE16X12X4NK	16.00 x 12.00 x 4.00	406 x 305 x 102	Painted	16	16	4
ASG16X12X4NK	16.00 x 12.00 x 4.00	406 x 305 x 102	Galvanized	16	16	4
ASE18X12X4NK	18.00 x 12.00 x 4.00	457 x 305 x 102	Painted	16	16	4
ASG18X12X4NK	18.00 x 12.00 x 4.00	457 x 305 x 102	Galvanized	16	16	4
ASE18X15X4NK	18.00 x 15.00 x 4.00	457 x 381 x 102	Painted	16	16	4
ASE18X18X4NK	18.00 x 18.00 x 4.00	457 x 457 x 102	Painted	16	16	4
ASG18X18X4NK	18.00 x 18.00 x 4.00	457 x 457 x 102	Galvanized	16	16	4
ASE24X12X4NK	24.00 x 12.00 x 4.00	610 x 305 x 102	Painted	16	16	4
ASE24X18X4NK	24.00 x 18.00 x 4.00	610 x 457 x 102	Painted	16	14	4
ASG24X18X4NK	24.00 x 18.00 x 4.00	610 x 457 x 102	Galvanized	16	16	4
ASE24X24X4NK	24.00 x 24.00 x 4.00	610 x 610 x 102	Painted	16	16	4
ASG24X24X4NK	24.00 x 24.00 x 4.00	610 x 610 x 102	Galvanized	16	16	4
ASE30X24X4NK	30.00 x 24.00 x 4.00	762 x 610 x 102	Painted	16	16	6
ASE30X30X4NK	30.00 x 30.00 x 4.00	762 x 762 x 102	Painted	16	16	8
ASE6X6X6NK	6.00 x 6.00 x 6.00	152 x 152 x 152	Painted	16	16	2
ASG6X6X6NK	6.00 x 6.00 x 6.00	152 x 152 x 152	Galvanized	16	16	2
ASE8X6X6NK	8.00 x 6.00 x 6.00	203 x 152 x 152	Painted	16	16	2
ASG8X6X6NK	8.00 x 6.00 x 6.00	203 x 152 x 152	Galvanized	16	16	2
ASE8X8X6NK	8.00 x 8.00 x 6.00	203 x 203 x 152	Painted	16	16	4
ASG8X8X6NK	8.00 x 8.00 x 6.00	203 x 203 x 152	Galvanized	16	16	4
ASE10X8X6NK	10.00 x 8.00 x 6.00	254 x 203 x 152	Painted	16	16	4
ASG10X8X6NK	10.00 x 8.00 x 6.00	254 x 203 x 152	Galvanized	16	16	4
ASE10X10X6NK	10.00 x 10.00 x 6.00	254 x 254 x 152	Painted	16	16	4
ASG10X10X6NK	10.00 x 10.00 x 6.00	254 x 254 x 152	Galvanized	16	16	4
ASE12X6X6NK	12.00 x 6.00 x 6.00	305 x 152 x 152	Painted	16	16	4
ASE12X8X6NK	12.00 x 8.00 x 6.00	305 x 203 x 152	Painted	16	16	4
ASG12X8X6NK	12.00 x 8.00 x 6.00	305 x 203 x 152	Galvanized	16	16	4
ASE12X10X6NK	12.00 x 10.00 x 6.00	305 x 254 x 152	Painted	16	16	4
ASG12X10X6NK	12.00 x 10.00 x 6.00	305 x 254 x 152	Galvanized	16	16	4
ASE12X12X6NK	12.00 x 12.00 x 6.00	305 x 305 x 152	Painted	16	16	4
ASG12X12X6NK	12.00 x 12.00 x 6.00	305 x 305 x 152	Galvanized	16	16	4
ASE16X12X6NK	16.00 x 12.00 x 6.00	406 x 305 x 152	Painted	16	16	4
ASG16X12X6NK	16.00 x 12.00 x 6.00	406 x 305 x 152	Galvanized	16	16	4
ASE16X16X6NK	16.00 x 16.00 x 6.00	406 x 406 x 152	Painted	16	16	4
ASG16X16X6NK	16.00 x 16.00 x 6.00	406 x 406 x 152	Galvanized	16	16	4
ASE18X12X6NK	18.00 x 12.00 x 6.00	457 x 305 x 152	Painted	16	16	4
ASG18X12X6NK	18.00 x 12.00 x 6.00	457 x 305 x 152	Galvanized	16	16	4
ASE18X18X6NK	18.00 x 18.00 x 6.00	457 x 457 x 152	Painted	16	16	4
ASG18X18X6NK	18.00 x 18.00 x 6.00	457 x 457 x 152	Galvanized	16	16	4
ASE24X12X6NK	24.00 x 12.00 x 6.00	610 x 305 x 152	Painted	16	16	4
ASG24X12X6NK	24.00 x 12.00 x 6.00	610 x 305 x 152	Galvanized	16	16	4
ASE24X18X6NK	24.00 x 18.00 x 6.00	610 x 457 x 152	Painted	16	14	4
ASG24X18X6NK	24.00 x 18.00 x 6.00	610 x 457 x 152	Galvanized	16	16	4
ASE24X20X6NK	24.00 x 20.00 x 6.00	610 x 508 x 152	Painted	14	16	4
ASG24X20X6NK	24.00 x 20.00 x 6.00	610 x 508 x 152	Galvanized	14	16	4
ASE24X24X6NK	24.00 x 24.00 x 6.00	610 x 610 x 152	Painted	14	16	4
ASG24X24X6NK	24.00 x 24.00 x 6.00	610 x 610 x 152	Galvanized	14	16	4
ASE30X24X6NK	30.00 x 24.00 x 6.00	762 x 610 x 152	Painted	14	16	6
ASG30X24X6NK	30.00 x 24.00 x 6.00	762 x 610 x 152	Galvanized	14	16	6
ASE30X30X6NK	30.00 x 30.00 x 6.00	762 x 762 x 152	Painted	12	12	8
ASG30X30X6NK	30.00 x 30.00 x 6.00	762 x 762 x 152	Galvanized	12	12	8
ASE36X24X6NK	36.00 x 24.00 x 6.00	914 x 610 x 152	Painted	14	16	6
ASG36X24X6NK	36.00 x 24.00 x 6.00	914 x 610 x 152	Galvanized	14	16	6
ASE36X30X6NK	36.00 x 30.00 x 6.00	914 x 762 x 152	Painted	12	12	8
ASE36X36X6NK	36.00 x 36.00 x 6.00	914 x 914 x 152	Painted	12	12	8
ASG36X36X6NK	36.00 x 36.00 x 6.00	914 x 914 x 152	Galvanized	12	12	8
ASE8X8X8NK	8.00 x 8.00 x 8.00	203 x 203 x 203	Painted	16	16	4
ASG8X8X8NK	8.00 x 8.00 x 8.00	203 x 203 x 203	Galvanized	16	16	4
ASE10X10X8NK	10.00 x 10.00 x 8.00	254 x 254 x 203	Painted	16	16	4
ASG10X10X8NK	10.00 x 10.00 x 8.00	254 x 254 x 203	Galvanized	16	16	4
ASE12X10X8NK	12.00 x 10.00 x 8.00	305 x 254 x 203	Painted	16	16	4
ASE12X12X8NK	12.00 x 12.00 x 8.00	305 x 305 x 203	Painted	16	16	4
ASG12X12X8NK	12.00 x 12.00 x 8.00	305 x 305 x 203	Galvanized	16	16	4
ASE16X12X8NK	16.00 x 12.00 x 8.00	406 x 305 x 203	Painted	16	16	4
ASE18X12X8NK	18.00 x 12.00 x 8.00	457 x 305 x 203	Painted	16	16	4
ASG18X12X8NK	18.00 x 12.00 x 8.00	457 x 305 x 203	Galvanized	16	16	4
ASE18X18X8NK	18.00 x 18.00 x 8.00	457 x 457 x 203	Painted	16	16	4
ASG18X18X8NK	18.00 x 18.00 x 8.00	457 x 457 x 203	Galvanized	16	16	4
ASE24X12X8NK	24.00 x 12.00 x 8.00	610 x 305 x 203	Painted	16	16	4
ASG24X12X8NK	24.00 x 12.00 x 8.00	610 x 305 x 203	Galvanized	16	16	4
ASE24X18X8NK	24.00 x 18.00 x 8.00	610 x 457 x 203	Painted	16	14	4
ASG24X18X8NK	24.00 x 18.00 x 8.00	610 x 457 x 203	Galvanized	16	14	4
ASE24X20X8NK	24.00 x 20.00 x 8.00	610 x 508 x 203	Painted	16	16	4

Catalog Number	AxBxC in.	AxBxC mm	Style	Body Thickness (ga.)	Cover Thickness (ga.)	Number of Cover Screws
ASG24X20X8NK	24.00 x 20.00 x 8.00	610 x 508 x 203	Galvanized	14	16	4
ASE24X24X8NK	24.00 x 24.00 x 8.00	610 x 610 x 203	Painted	14	16	4
ASG24X24X8NK	24.00 x 24.00 x 8.00	610 x 610 x 203	Galvanized	14	16	4
ASE30X24X8NK	30.00 x 24.00 x 8.00	762 x 610 x 203	Painted	14	16	6
ASG30X24X8NK	30.00 x 24.00 x 8.00	762 x 610 x 203	Galvanized	14	16	6
ASE30X30X8NK	30.00 x 30.00 x 8.00	762 x 762 x 203	Painted	12	12	8
ASG30X30X8NK	30.00 x 30.00 x 8.00	762 x 762 x 203	Galvanized	12	12	8
ASE36X24X8NK	36.00 x 24.00 x 8.00	914 x 610 x 203	Painted	14	16	6
ASG36X24X8NK	36.00 x 24.00 x 8.00	914 x 610 x 203	Galvanized	14	16	6
ASE36X36X8NK	36.00 x 36.00 x 8.00	914 x 914 x 203	Painted	12	12	8
ASG36X36X8NK	36.00 x 36.00 x 8.00	914 x 914 x 203	Galvanized	12	12	8
ASE12X12X10NK	12.00 x 12.00 x 10.00	305 x 305 x 254	Painted	16	16	4
ASG12X12X10NK	12.00 x 12.00 x 10.00	305 x 305 x 254	Galvanized	16	16	4
ASE18X12X10NK	18.00 x 12.00 x 10.00	457 x 305 x 254	Painted	16	16	4
ASE18X18X10NK	18.00 x 18.00 x 10.00	457 x 457 x 254	Painted	16	16	4
ASG18X18X10NK	18.00 x 18.00 x 10.00	457 x 457 x 254	Galvanized	16	16	4
ASE24X12X10NK	24.00 x 12.00 x 10.00	610 x 305 x 254	Painted	16	16	4
ASE24X18X10NK	24.00 x 18.00 x 10.00	610 x 457 x 254	Painted	16	14	4
ASE24X24X10NK	24.00 x 24.00 x 10.00	610 x 610 x 254	Painted	14	16	4
ASG24X24X10NK	24.00 x 24.00 x 10.00	610 x 610 x 254	Galvanized	14	16	4
ASE30X24X10NK	30.00 x 24.00 x 10.00	762 x 610 x 254	Painted	14	16	6
ASE30X30X10NK	30.00 x 30.00 x 10.00	762 x 762 x 254	Painted	12	12	8
ASG30X30X10NK	30.00 x 30.00 x 10.00	762 x 762 x 254	Galvanized	12	12	8
ASE36X24X10NK	36.00 x 24.00 x 10.00	914 x 610 x 254	Painted	14	16	6
ASG36X24X10NK	36.00 x 24.00 x 10.00	914 x 610 x 254	Galvanized	14	16	6
ASE36X36X10NK	36.00 x 36.00 x 10.00	914 x 914 x 254	Painted	12	12	8
ASG36X36X10NK	36.00 x 36.00 x 10.00	914 x 914 x 254	Galvanized	12	12	8
ASE12X12X12NK	12.00 x 12.00 x 12.00	305 x 305 x 305	Painted	16	16	4
ASG12X12X12NK	12.00 x 12.00 x 12.00	305 x 305 x 305	Galvanized	16	16	4
ASE24X12X12NK	24.00 x 12.00 x 12.00	610 x 305 x 305	Painted	16	16	4
ASG24X12X12NK	24.00 x 12.00 x 12.00	610 x 305 x 305	Galvanized	16	16	4
ASE18X18X12NK	18.00 x 18.00 x 12.00	457 x 457 x 305	Painted	16	16	4
ASG18X18X12NK	18.00 x 18.00 x 12.00	457 x 457 x 305	Galvanized	16	16	4
ASE24X18X12NK	24.00 x 18.00 x 12.00	610 x 457 x 305	Painted	16	14	4
ASE24X24X12NK	24.00 x 24.00 x 12.00	610 x 610 x 305	Painted	14	16	4
ASG24X24X12NK	24.00 x 24.00 x 12.00	610 x 610 x 305	Galvanized	14	16	4
ASE30X24X12NK	30.00 x 24.00 x 12.00	762 x 610 x 305	Painted	14	16	6
ASE30X30X12NK	30.00 x 30.00 x 12.00	762 x 762 x 305	Painted	12	12	8
ASG30X30X12NK	30.00 x 30.00 x 12.00	762 x 762 x 305	Galvanized	12	12	8
ASE36X24X12NK	36.00 x 24.00 x 12.00	914 x 610 x 305	Painted	14	16	6
ASG36X24X12NK	36.00 x 24.00 x 12.00	914 x 610 x 305	Galvanized	14	16	6
ASE36X36X12NK	36.00 x 36.00 x 12.00	914 x 914 x 305	Painted	12	12	8
ASG36X36X12NK	36.00 x 36.00 x 12.00	914 x 914 x 305	Galvanized	12	12	8
ASE48X48X12NK	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Painted	12	12	12
ASG48X48X12NK	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Galvanized	12	12	12
ASE30X30X16NK	30.00 x 30.00 x 16.00	762 x 762 x 406	Painted	12	12	8
ASE36X36X16NK	36.00 x 36.00 x 16.00	914 x 914 x 406	Painted	12	12	8
ASG36X36X16NK	36.00 x 36.00 x 16.00	914 x 914 x 406	Galvanized	12	12	8
ASE48X48X16NK	48.00 x 48.00 x 16.00	1219 x 1219 x 406	Painted	12	12	12
ASG48X48X16NK	48.00 x 48.00 x 16.00	1219 x 1219 x 406	Galvanized	12	12	12





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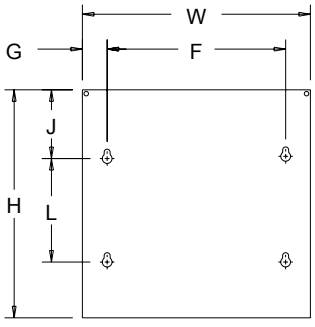
FLUSH COVERS

Designed to mount on enclosure for flush installations. Cover is 16 or 14 gauge steel finished with ANSI 61 gray polyester powder paint.

BULLETIN: A90P1



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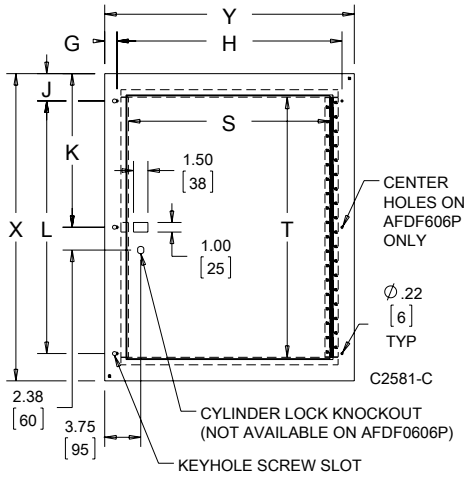
Standard Product

Catalog Number	H in./mm	W in./mm	Fits Box Size A x B in./mm	F in./mm	G in./mm	J in./mm	L in./mm	Cover Gauge
AFE6X6	7.50 191	7.50 191	6.00 x 6.00 152 x 152	5.44 138	1.03 26	3.75 95	— —	16
AFE8X6	9.50 241	7.50 191	8.00 x 6.00 203 x 152	5.44 138	1.03 26	4.75 121	— —	16
AFE8X8	9.50 241	9.50 241	8.00 x 8.00 203 x 203	7.44 189	1.03 26	2.77 70	4.31 109	16
AFE10X8	11.50 292	9.50 241	10.00 x 8.00 254 x 203	7.44 189	1.03 26	2.77 70	6.31 160	16
AFE10X10	11.50 292	11.50 292	10.00 x 10.00 254 x 254	9.44 240	1.03 26	2.77 70	6.31 160	16
AFE12X8	13.50 343	9.50 241	12.00 x 8.00 305 x 203	7.44 189	1.03 26	2.77 70	8.31 211	16
AFE12X12	13.50 343	13.50 343	12.00 x 12.00 305 x 305	11.44 291	1.03 26	2.77 70	8.31 211	16
AFE18X12	19.50 495	13.50 343	18.00 x 12.00 457 x 305	11.44 291	1.03 26	2.77 70	14.31 363	16
AFE18X18	19.50 495	19.50 495	18.00 x 18.00 457 x 457	17.44 443	1.03 26	2.77 70	14.31 363	16
AFE24X18	25.50 648	19.50 495	24.00 x 18.00 610 x 457	17.41 442	1.05 27	2.77 70	20.31 516	14
AFE24X24	25.50 648	25.50 648	24.00 x 24.00 610 x 610	23.41 595	1.05 27	2.77 70	20.31 516	14

FLUSH-MOUNT DOOR FRAMES

- Continuous hinge
- Rugged black composite slide latch
- Optional tamper-resistant lock kit includes cylinder lock, tamper-resistant screws and special driver bit.
- Lock Kit: ACLFDF
- 14 gauge steel door frame has ANSI 61 gray polyester powder paint finish

BULLETIN: A90P1



Use in Screw-Cover Pull Box telephone cabinet installations or in communication wiring and signal systems. Also as a junction or pull box and switch enclosure.

Standard Product

Catalog Number	Frame Size X x Y in./mm	Door Size T in./mm	Door Size S in./mm	Fits Box Size A x B in./mm	G in./mm	H in./mm	J in./mm	K in./mm	L in./mm
AFDF0606P	8.00 x 8.00 203 x 203	3.00 76	3.00 76	6.00 x 6.00 152 x 152	1.28 32	5.44 138	N/A N/A	4.00 102	N/A N/A
AFDF1212P	14.00 x 14.00 356 x 356	9.00 229	9.00 229	12.00 x 12.00 305 x 305	1.28 32	11.44 291	2.84 72	7.00 178	8.31 211
AFDF1812P	20.00 x 14.00 508 x 356	15.00 381	9.00 229	18.00 x 12.00 457 x 305	1.28 32	11.44 291	2.84 72	10.00 254	14.31 364
AFDF1818P	20.00 x 20.00 508 x 508	15.00 381	15.00 381	18.00 x 18.00 457 x 457	1.28 32	17.44 443	2.84 72	10.00 254	14.31 364
AFDF2418P	26.00 x 20.00 660 x 508	21.00 533	15.00 381	24.00 x 18.00 610 x 457	1.28 32	17.44 443	2.84 72	13.00 330	20.31 516
AFDF2424P	26.00 x 26.00 660 x 660	21.00 533	21.00 533	24.00 x 24.00 610 x 610	1.30 33	23.41 595	2.84 72	13.00 330	20.31 516
AFDF3024P	32.00 x 26.00 813 x 660	27.00 686	21.00 533	30.00 x 24.00 762 x 610	1.30 33	23.41 595	2.84 72	16.00 406	26.31 668

TYPE 1 LOCKING WINDOW PULL BOX ACCESSORY

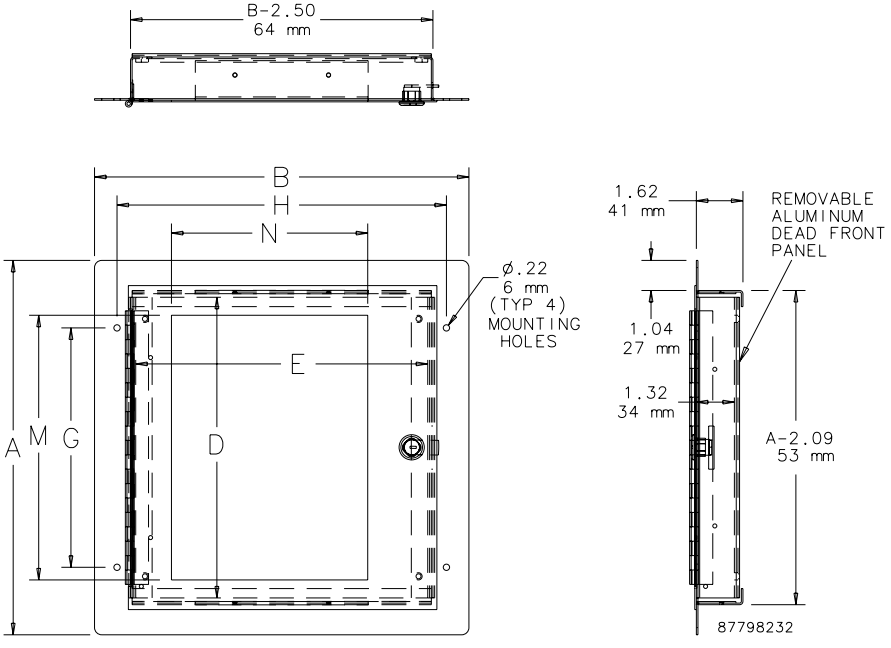
Flush- or surface-mount accessory fits Screw Cover, Type 1, boxes to prevent public access to lighting switches and controls. Includes a removable aluminum dead-front mounting surface for component cutouts and four torx-head screws for securing to enclosure.

BULLETIN: A90P1

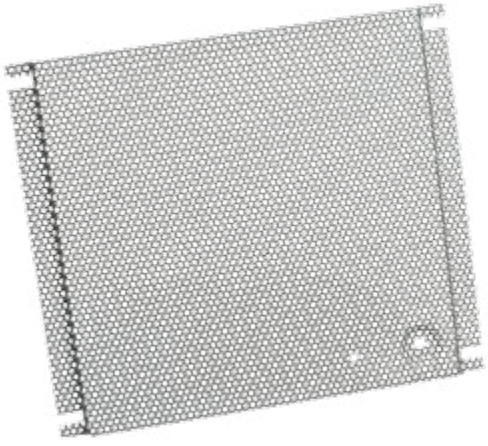
Standard Product

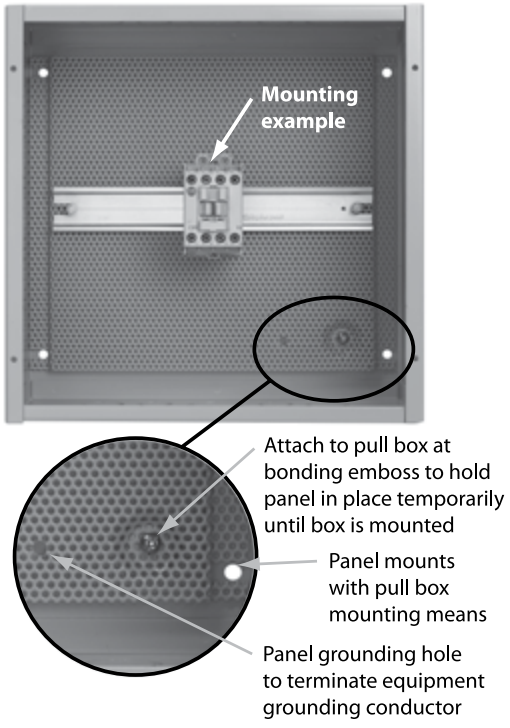
Catalog Number	AxB in./mm	Dead Front Panel Size D x E in./mm	Mounting Holes G x H in./mm	Window Size M x N in./mm	Fits Pull Boxes with A x B dimensions of in./mm
ALDF88W	9.00 x 9.00	6.00 x 6.14	4.31 x 7.44	6.25 x 3.88	8X8
	229 x 293	152 x 99	109 x 189	164 x 156	203 x 203
ALDF1212W	13.00 x 13.00	10.00 x 10.14	8.31 x 11.44	10.25 x 7.88	12X12
	330 x 330	254 x 200	211 x 291	265 x 258	305 x 305

A x B = Frame Size



TYPE 1 PULL BOX PERFORATED PANEL





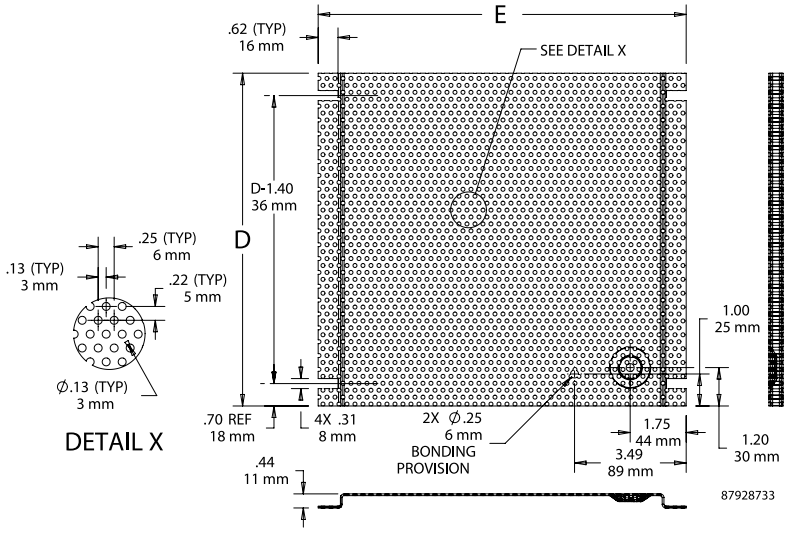
Panel is formed to provide 7/16-in. space off back of pull box for component mounting screw clearance and includes a grounding hole to terminate equipment grounding conductors. Ideal for mounting components that require infrequent access such as control transformers, terminals and contactors.

BULLETIN: PNLP

Standard Product

Catalog Number	Panel Gauge	Panel Size D x E (in.)	Panel Size D x E (mm)	Fits Pull Box
PB66PP	16	4.40 x 5.50	112 x 140	ASE6X6X__
PB88PP	16	6.40 x 7.50	163 x 191	ASE8X8X__
PB1212PP	16	10.40 x 11.50	264 x 292	ASE12X12X__
PB1818PP	16	16.40 x 17.50	417 x 445	ASE18X18X__
PB2424PP	16	22.40 x 23.50	569 x 597	ASE24X24X__

PB1818PP and PB2424PP are flanged on all four sides.



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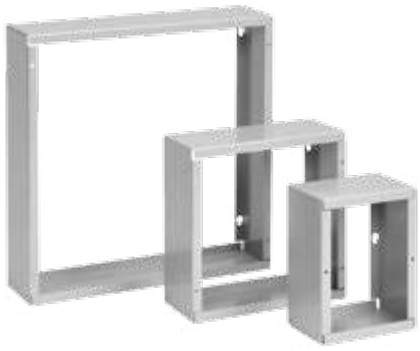
SCREW-COVER PULL BOX EXTENDER, TYPE 1



APPLICATION

The Pull Box Extender, or "Step-Up", product is designed for commercial and general industrial applications that previously required a custom-sized pull box, or to create additional wiring space for existing pull box installations.

FEATURES

- Unique keyhole screw slots for easy installation
- Plated steel screws included to mount to pull box
- Compatible with Type 1 Pull Box accessories
- Maintains grounding between main enclosure and extender

SPECIFICATIONS

- 16 gauge mild steel or galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out, or unpainted galvanized material.

ACCESSORIES

Flush Covers, page 756
Flush-Mount Door Frames, page 757
Grounding Device, page 1386
Type 1 Locking Window Pull Box Accessory, page 758
Touch-Up Paint, page 1379

BULLETIN: A90P1

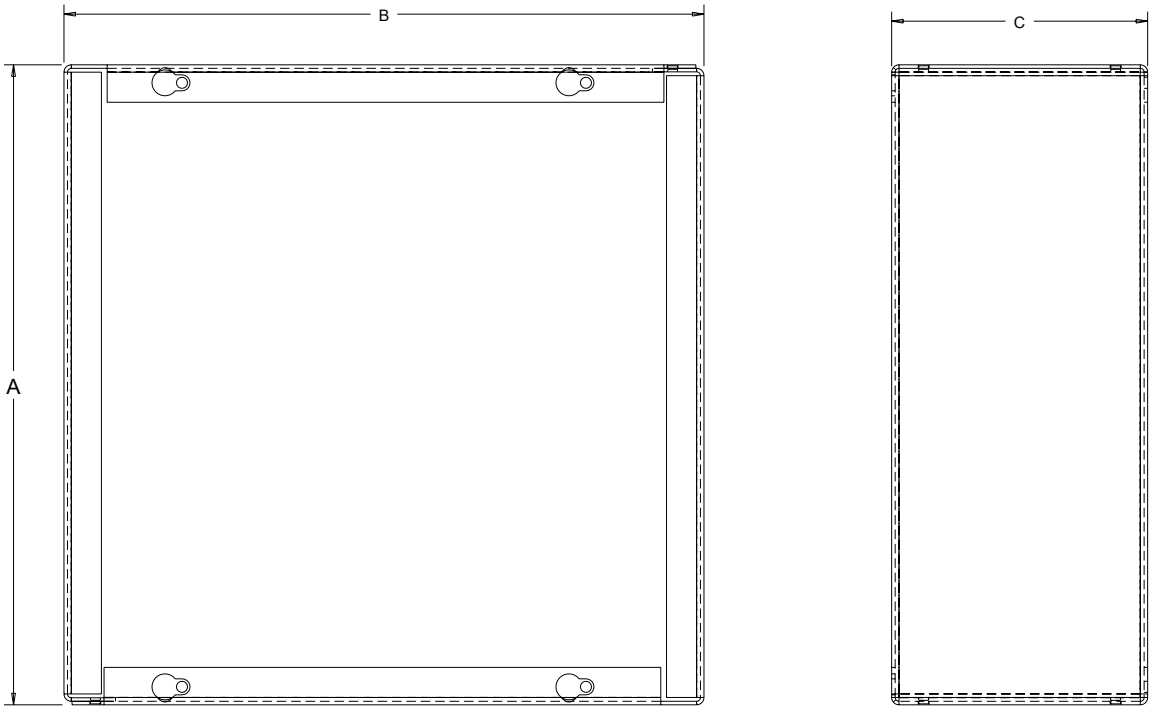
INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27525
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27525

NEMA /EEMAC Type 1
IEC 60529, IP30

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Style
A664SU	6.00 x 6.00 x 4.00	152 x 152 x 102	Painted
A664SUG	6.00 x 6.00 x 4.00	152 x 152 x 102	Galvanized
A864SU	8.00 x 6.00 x 4.00	203 x 152 x 102	Painted
A864SUG	8.00 x 6.00 x 4.00	203 x 152 x 102	Galvanized
A884SU	8.00 x 8.00 x 4.00	203 x 203 x 102	Painted
A884SUG	8.00 x 8.00 x 4.00	203 x 203 x 102	Galvanized
A1084SU	10.00 x 8.00 x 4.00	254 x 203 x 102	Painted
A1084SUG	10.00 x 8.00 x 4.00	254 x 203 x 102	Galvanized
A10104SU	10.00 x 10.00 x 4.00	254 x 254 x 102	Painted
A10104SUG	10.00 x 10.00 x 4.00	254 x 254 x 102	Galvanized
A1264SU	12.00 x 6.00 x 4.00	305 x 152 x 102	Painted
A1264SUG	12.00 x 6.00 x 4.00	305 x 152 x 102	Galvanized
A1284SU	12.00 x 8.00 x 4.00	305 x 203 x 102	Painted
A1284SUG	12.00 x 8.00 x 4.00	305 x 203 x 102	Galvanized
A12104SU	12.00 x 10.00 x 4.00	305 x 254 x 102	Painted
A12104SUG	12.00 x 10.00 x 4.00	305 x 254 x 102	Galvanized
A12124SU	12.00 x 12.00 x 4.00	305 x 305 x 102	Painted
A12124SUG	12.00 x 12.00 x 4.00	305 x 305 x 102	Galvanized
A16124SU	16.00 x 12.00 x 4.00	406 x 305 x 102	Painted
A16124SUG	16.00 x 12.00 x 4.00	406 x 305 x 102	Galvanized
A16164SU	16.00 x 16.00 x 4.00	406 x 406 x 102	Painted
A16164SUG	16.00 x 16.00 x 4.00	406 x 406 x 102	Galvanized
A18124SU	18.00 x 12.00 x 4.00	457 x 305 x 102	Painted
A18124SUG	18.00 x 12.00 x 4.00	457 x 305 x 102	Galvanized
A18184SU	18.00 x 18.00 x 4.00	457 x 457 x 102	Painted
A18184SUG	18.00 x 18.00 x 4.00	457 x 457 x 102	Galvanized
A24124SU	24.00 x 12.00 x 4.00	610 x 305 x 102	Painted
A24124SUG	24.00 x 12.00 x 4.00	610 x 305 x 102	Galvanized
A24184SU	24.00 x 18.00 x 4.00	610 x 457 x 102	Painted
A24184SUG	24.00 x 18.00 x 4.00	610 x 457 x 102	Galvanized
A24244SU	24.00 x 24.00 x 4.00	610 x 610 x 102	Painted
A24244SUG	24.00 x 24.00 x 4.00	610 x 610 x 102	Galvanized
A30244SU	30.00 x 24.00 x 4.00	762 x 610 x 102	Painted
A30244SUG	30.00 x 24.00 x 4.00	762 x 610 x 102	Galvanized
A30304SU	30.00 x 30.00 x 4.00	762 x 762 x 102	Painted
A30304SUG	30.00 x 30.00 x 4.00	762 x 762 x 102	Galvanized
A36244SU	36.00 x 24.00 x 4.00	914 x 610 x 102	Painted
A36244SUG	36.00 x 24.00 x 4.00	914 x 610 x 102	Galvanized
A36364SU	36.00 x 36.00 x 4.00	914 x 914 x 102	Painted
A36364SUG	36.00 x 36.00 x 4.00	914 x 914 x 102	Galvanized



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HINGED-COVER WITH RECESSED HANDLE, TYPE 1

APPLICATION

These enclosures have an easy-to-open recessed T-handle and meet basic functionality requirements for housing controls and instrumentation.

FEATURES

- Removable doors have butt hinges
- Mounting holes on back of enclosure
- Recessed T-handle latch is flush with door
- Flush cover and offset body

SPECIFICATIONS

- 16 or 14 gauge steel

FINISH

ANSI 61 gray polyester powder paint inside and out

ACCESSORIES

Electric Heaters, page 1236
Grounding Device, page 1386
Lock Kit for Clamp Cover Junction Boxes, page 1366
19-in. and 23-in. Rack Angles, page 1414
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A1M

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No. 40; Type 1; File No. E27567

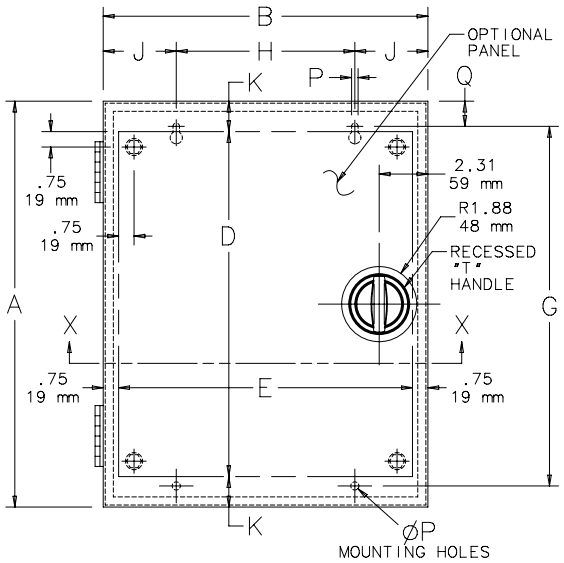
NEMA/EEMAC Type 1
CSA, File No. 42184: Type 1
IEC 60529, IP30

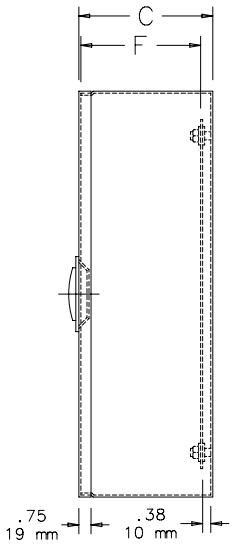
Standard Product

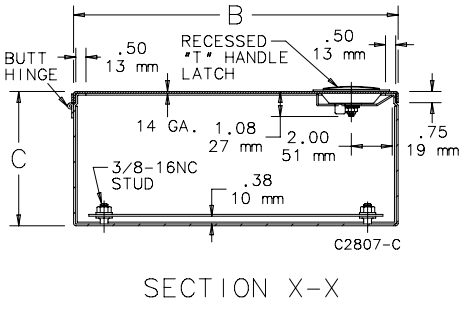
Catalog Number	AxBxC in./mm	Gauge	Panel	Panel Size D x E in./mm	Panel Gauge	Number of Studs	Mounting G x H in./mm	J in./mm	Q in./mm	P in./mm	F in./mm	K in./mm
A16N126LP	16.00 x 12.00 x 6.63 406 x 305 x 168	16	A16N12MP	13.00 x 10.50 330 x 267	14	4	13.88 x 7.00 353 x 178	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A20N126LP	20.00 x 12.00 x 6.63 508 x 305 x 168	16	A20N12MP	17.00 x 10.50 432 x 267	14	4	17.88 x 7.00 454 x 178	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A16N166LP	16.00 x 16.00 x 6.63 406 x 406 x 168	16	A16N16MP	13.00 x 14.50 330 x 368	14	4	13.88 x 11.00 353 x 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A16N206LP	16.00 x 20.00 x 6.63 406 x 508 x 168	16	A16N20MP	13.00 x 18.50 330 x 470	14	4	13.88 x 15.00 353 x 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A20N166LP	20.00 x 16.00 x 6.63 508 x 406 x 168	16	A20N16MP	17.00 x 14.50 432 x 368	14	4	17.88 x 11.00 454 x 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A20N206LP	20.00 x 20.00 x 6.63 508 x 508 x 168	16	A20N20MP	17.00 x 18.50 432 x 470	14	4	17.88 x 15.00 454 x 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N166LP	24.00 x 16.00 x 6.63 610 x 406 x 168	16	A24N16MP	21.00 x 14.50 533 x 368	14	4	21.88 x 11.00 556 x 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N206LP	24.00 x 20.00 x 6.63 610 x 508 x 168	16	A24N20MP	21.00 x 18.50 533 x 470	14	4	21.88 x 15.00 556 x 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N246LP	24.00 x 24.00 x 6.63 610 x 610 x 168	14	A24N24MP	21.00 x 22.50 533 x 572	12	4	21.88 x 19.00 556 x 483	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A30N206LP	30.00 x 20.00 x 6.63 762 x 508 x 168	14	A30N20MP	26.00 x 18.50 660 x 470	12	6	27.50 x 12.75 699 x 324	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A30N246LP	30.00 x 24.00 x 6.63 762 x 610 x 168	14	A30N24MP	26.00 x 22.50 660 x 572	12	6	27.50 x 16.75 699 x 425	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A36N246LP	36.00 x 24.00 x 6.63 914 x 610 x 168	14	A36N24MP	32.00 x 22.50 813 x 572	12	6	33.50 x 16.75 851 x 425	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A36N306LP	36.00 x 30.00 x 6.63 914 x 762 x 168	14	A36N30MP	32.00 x 28.50 813 x 724	12	8	33.50 x 22.75 851 x 578	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A16N128LP	16.00 x 12.00 x 8.63 406 x 305 x 219	16	A16N12MP	13.00 x 10.50 330 x 267	14	4	13.88 x 7.00 353 x 178	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A20N168LP	20.00 x 16.00 x 8.63 508 x 406 x 219	16	A20N16MP	17.00 x 14.50 432 x 368	14	4	17.88 x 11.00 454 x 279	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A24N168LP	24.00 x 16.00 x 8.63 610 x 406 x 219	16	A24N16MP	21.00 x 14.50 533 x 368	14	4	21.88 x 11.00 556 x 279	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A20N208LP	20.00 x 20.00 x 8.63 508 x 508 x 219	16	A20N20MP	17.00 x 18.50 432 x 470	14	4	17.88 x 15.00 454 x 381	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A24N208LP	24.00 x 20.00 x 8.63 610 x 508 x 219	16	A24N20MP	21.00 x 18.50 533 x 470	14	4	21.88 x 15.00 556 x 381	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A24N248LP	24.00 x 24.00 x 8.63 610 x 610 x 219	14	A24N24MP	21.00 x 22.50 533 x 572	12	4	21.88 x 19.00 556 x 483	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A30N208LP	30.00 x 20.00 x 8.63 762 x 508 x 219	14	A30N20MP	26.00 x 18.50 660 x 470	12	6	27.50 x 12.75 699 x 324	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51

Catalog Number	AxBxC in./mm	Gauge	Panel	Panel Size D x E in./mm	Panel Gauge	Number of Studs	Mounting G x H in./mm	J in./mm	Q in./mm	P in./mm	F in./mm	K in./mm
A30N248LP	30.00 x 24.00 x 8.62 762 x 610 x 219	14	A30N24MP	26.00 x 22.50 660 x 572	12	6	27.50 x 16.75 699 x 425	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A30N308LP	30.00 x 30.00 x 8.63 762 x 762 x 219	14	A30N30MP	26.00 x 28.50 660 x 724	12	8	27.50 x 22.75 699 x 578	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A36N248LP	36.00 x 24.00 x 8.63 914 x 610 x 219	14	A36N24MP	32.00 x 22.50 813 x 572	12	6	33.50 x 16.75 851 x 425	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A36N308LP	36.00 x 30.00 x 8.63 914 x 762 x 219	14	A36N30MP	32.00 x 28.50 813 x 724	12	8	33.50 x 22.75 851 x 578	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A24N2010LP	24.00 x 20.00 x 10.63 610 x 508 x 270	16	A24N20MP	21.00 x 18.50 533 x 470	14	4	21.88 x 15.00 556 x 381	2.50 64	1.06 27	0.31 8	10.00 254	1.50 38
A24N2412LP	24.00 x 24.00 x 12.63 610 x 610 x 321	14	A24N24MP	21.00 x 22.50 533 x 572	12	4	21.88 x 19.00 556 x 483	2.50 64	1.06 27	0.31 8	12.00 305	1.50 38
A30N2412LP	30.00 x 24.00 x 12.63 762 x 610 x 321	14	A30N24MP	26.00 x 22.50 660 x 724	12	6	27.50 x 16.75 699 x 425	3.62 92	1.25 32	0.44 11	12.00 305	2.00 51
A36N3012LP	36.00 x 30.00 x 12.63 914 x 762 x 321	14	A36N30MP	32.00 x 28.50 813 x 724	12	8	33.50 x 22.75 851 x 578	3.62 92	1.25 32	0.44 11	12.00 305	2.00 51

Purchase panels separately.







SECTION X-X

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T1FL0 VENTED ENCLOSURE WITH FAN, TYPE 1

INDUSTRY STANDARDS

UL 508A Listed; Type 1; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 1; File No. E61997

NEMA/EEMAC Type 1
IEC 60529, IP20

APPLICATION

These enclosures have a thermostatically controlled forced-air ventilation system for the removal of heat. Ideal for control systems in HVAC or industrial environments that have a combination of heat-sensitive electronics with high heat producing components such as (VFD) drives, inverters, PLCs and non-hardened processors.

FEATURES

- Active cooling ventilation system with factory installed, thermostatically controlled fan (115 VAC) and filter
- Terminal block power connection for fan
- Washable expanded metal filter
- Lift-off hinged door
- Slotted quarter-turn latch
- Collar studs for mounting optional panel
- Grounding provision on door and body
- Mounting holes on back of enclosure
- Accepts optional mounting foot kit
- Door gasket

SPECIFICATIONS

- 14 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces. Optional solid panels are white; optional perforated panels are gray.

ACCESSORIES

T-Handle Latch and Keyed Cylinder Lock Kits, page 1368
Electric Heaters, page 1236
Electrical Interlocks, page 1390
Grounding Device, page 1386
Mounting Bracket Kits (DMFK), page 1402
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Rack Mounting Angles - U Style (Type RA), page 1414
Compact Axial Fans, page 1202
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

NOTES

Required Airflow
The following equation is used to calculate the airflow required in a forced-air system to remove heat and maintain enclosure temperature a given amount above the ambient temperature.
$CFM = W_T \times 3.16 / T_{int} - T_{amb}$
Where:
CFM = Required airflow ($ft.^3$ / min.)
W_T = Total heat dissipated in enclosure (watts)
T_{amb} = Ambient or external Temperature (degrees F)
T_{int} = Desired internal Temperature (degrees F)

BULLETIN: A1DR

Standard Product

Catalog Number	AxBxC in./mm	System CFM	Suggested HP	Solid Panel	Perforated Panel	Panel Size D x E in./mm	Panel Gauge	G in./mm	H in./mm	Fan Size in./mm
T1F80LP	28.00 x 24.00 x 12.75 711 x 610 x 324	80	3	A24P24	A24P24PP	21.00 x 21.00 533 x 533	12	26.50 673	21.00 533	4
T1F130LP	34.00 x 24.00 x 12.75 864 x 610 x 324	130	Up to 20	A30P24	A30P24PP	27.00 x 21.00 686 x 533	12	32.50 826	21.00 533	4 (2x)
T1F200LP	40.00 x 24.00 x 12.75 1016 x 610 x 324	200	40	A36P24	A36P24PP	33.00 x 21.00 838 x 533	12	38.50 978	21.00 533	6
T1F350LP	54.00 x 30.00 x 12.75 1372 x 762 x 324	350	Up to 75	A48P30	N/A	45.00 x 27.00 1143 x 686	12	52.50 1334	27.00 656	6 (2x)

Sample Values

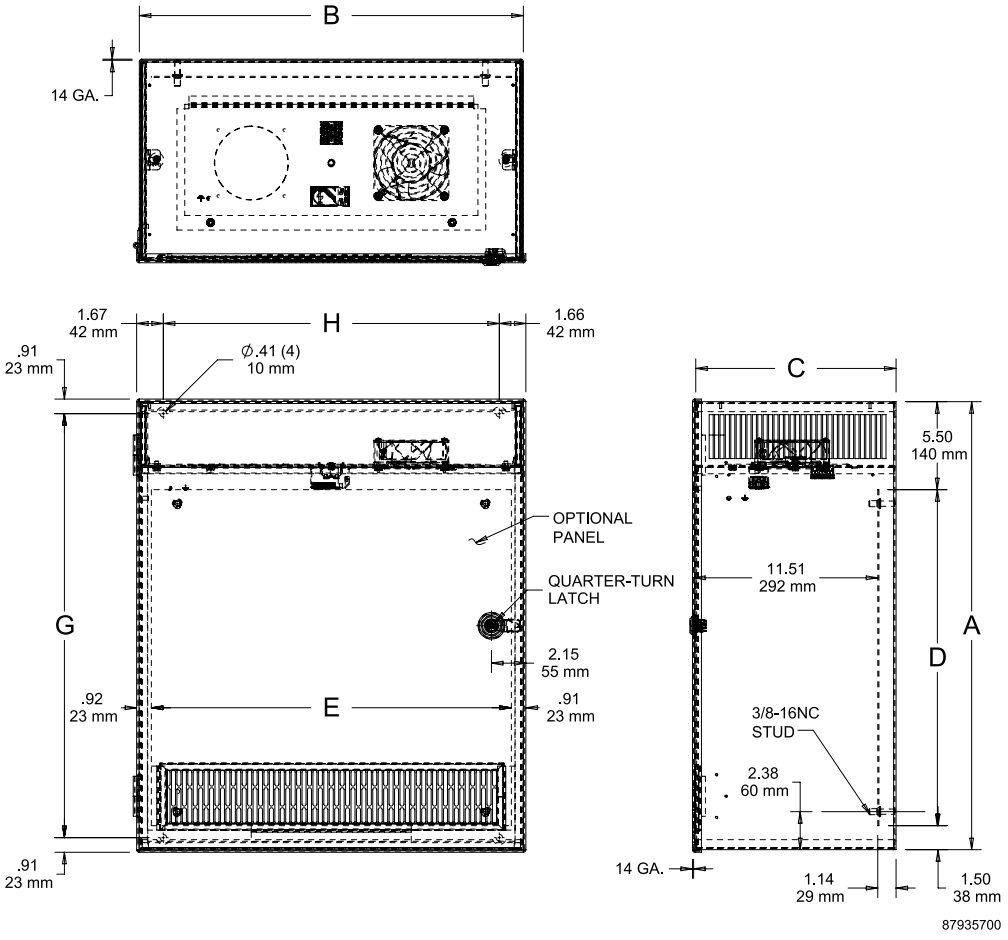
Catalog Number	Airflow (CFM)	Max. Internal Heat Load (W) 5 F Temp. Rise	Max. Internal Heat Load (W) 10 F Temp. Rise	Max. Internal Heat Load (W) 20 F Temp. Rise	Max. Internal Heat Load (W) 30 F Temp. Rise
T1F80LP	80	127	253	506	759
T1F130LP	130	206	411	823	1234
T1F200LP	200	316	633	1266	1899
T1F350LP	350	554	1108	2215	3323

Sample Values in a VFD Drive Application

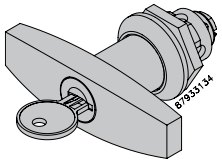
Catalog Number (with enough air flow)	Drive HP	Heat from Drive (W)	Total Heat[a] (W)	Airflow (CFM) to Maintain 15 F Temp. Rise
T1F80LP	10	246	307	65
T1F130LP	20	492	615	129
T1F200LP	30	738	922	194
T1F350LP	50	1229	1536	324

[a]Total heat load factors 25 percent greater than VFD for passive components

Assumptions: Specific values and physical sizes must be verified.
Typical motor efficiency is 91 percent; typical drive efficiency is 97 percent.



LOCKING T HANDLE



Optional locking T-Handle available for replacement of the quarter-turn latch (order separately).

BULLETIN: T90R3

Catalog Number	Description
ALTC3R	Available for replacement of the quarter-turn latch

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HINGED-COVER, TYPE 1

APPLICATION

These boxes feature a recessed, slotted flush latch for security as well as knockouts on all four sides, making them suitable for a wide variety of applications.

FEATURES

- Various sizes of easily removable concentric knockouts on all four sides
- Butt hinges
- Mounting holes on back of box
- Provision for grounding

SPECIFICATIONS

- 16 or 14 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces. Unless otherwise specified, all custom cutout boxes are finished with ANSI 61 gray polyester paint.

ACCESSORIES

T-Handle Latch and Keyed Cylinder Lock Kits, page 1368
Grounding Device, page 1386
Touch-Up Paint, page 1379

BULLETIN: A90HC

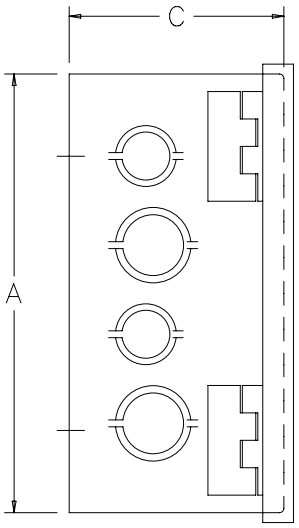
INDUSTRY STANDARDS

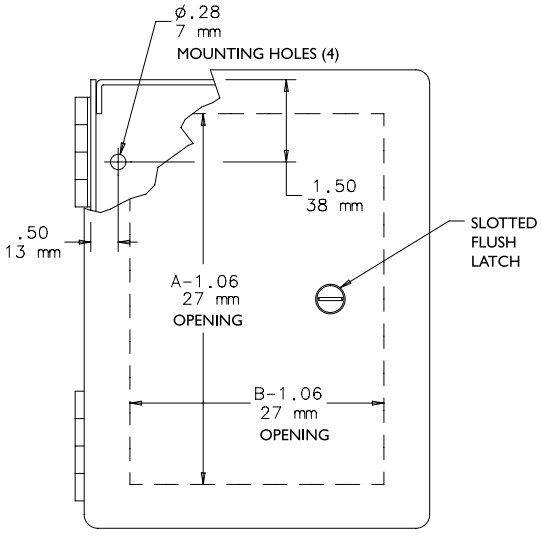
UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

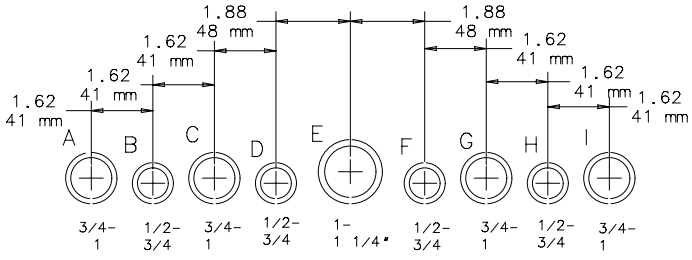
NEMA/EEMAC Type 1
CSA, File 42184: Type 1
IEC 60529, IP30

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Knockout Pattern along "A" Sides	Knockout Pattern along "B" Sides
AHE6X4X4	6.00 x 4.00 x 4.00	152 x 102 x 102	B-C-D	B-C
AHE6X6X4	6.00 x 6.00 x 4.00	152 x 152 x 102	B-C-D	B-C-D
AHE8X6X4	8.00 x 6.00 x 4.00	203 x 152 x 102	F-G-H-I	B-C-D
AHE8X8X4	8.00 x 8.00 x 4.00	203 x 203 x 102	F-G-H-I	F-G-H-I
AHE10X8X4	10.00 x 8.00 x 4.00	254 x 203 x 102	F-G-H-I	F-G-H-I
AHE10X10X4	10.00 x 10.00 x 4.00	254 x 254 x 102	F-G-H-I	C-D-E-F-G
AHE12X8X4	12.00 x 8.00 x 4.00	305 x 203 x 102	C-D-E-F-G	F-G-H-I
AHE12X10X4	12.00 x 10.00 x 4.00	305 x 254 x 102	C-D-E-F-G	C-D-E-F-G
AHE12X12X4	12.00 x 12.00 x 4.00	305 x 305 x 102	C-D-E-F-G	C-D-E-F-G
AHE16X12X4	16.00 x 12.00 x 4.00	406 x 305 x 102	B-C-D-E-F-G-H	C-D-E-F-G
AHE18X12X4	18.00 x 12.00 x 4.00	457 x 305 x 102	A-B-C-D-E-F-G-H-I	C-D-E-F-G
AHE6X6X6	6.00 x 6.00 x 6.00	152 x 152 x 152	B-C-D	B-C-D
AHE8X8X6	8.00 x 8.00 x 6.00	203 x 203 x 152	F-G-H-I	F-G-H-I
AHE10X8X6	10.00 x 8.00 x 6.00	254 x 203 x 152	F-G-H-I	F-G-H-I
AHE10X10X6	10.00 x 10.00 x 6.00	254 x 254 x 152	F-G-H-I	C-D-E-F-G
AHE12X10X6	12.00 x 10.00 x 6.00	305 x 254 x 152	C-D-E-F-G	C-D-E-F-G
AHE12X12X6	12.00 x 12.00 x 6.00	305 x 305 x 152	C-D-E-F-G	C-D-E-F-G
AHE16X12X6	16.00 x 12.00 x 6.00	406 x 305 x 152	B-C-D-E-F-G-H	C-D-E-F-G
AHE16X16X6	16.00 x 16.00 x 6.00	406 x 406 x 152	B-C-D-E-F-G-H	B-C-D-E-F-G-H
AHE18X12X6	18.00 x 12.00 x 6.00	457 x 305 x 152	A-B-C-D-E-F-G-H-I	C-D-E-F-G
AHE18X18X6	18.00 x 18.00 x 6.00	457 x 457 x 152	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
AHE24X18X6	24.00 x 18.00 x 6.00	610 x 457 x 152	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
AHE24X24X6	24.00 x 24.00 x 6.00	610 x 610 x 152	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
AHE30X24X6	30.00 x 24.00 x 6.00	762 x 610 x 152	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
AHE36X24X6	36.00 x 24.00 x 6.00	914 x 610 x 152	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
AHE36X24X8	36.00 x 24.00 x 8.00	914 x 610 x 203	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I

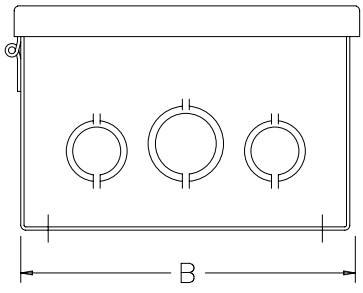






CONDUIT SIZES

Knockout Pattern
(from outside of box)



C2571-C

NOTE: Refer to table for applicable knockout pattern.

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SMALL, TYPE 1

APPLICATION

These enclosures have a size range of 6 x 6 x 4-in. to 14 x 12 x 8-in. and meet basic functionality requirements for applications that do not require oil- or dust-tight enclosures.

FEATURES

- Flush slotted latch operated with a screwdriver; optional latches available
- Weldnuts provided for mounting optional panels
- Butt hinges
- Mounting holes on back of enclosure

SPECIFICATIONS

- 16 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces. Optional solid panels are white and optional perforated panels are gray.

ACCESSORIES

T-Handle Latch and Keyed Cylinder Lock Kits, page 1368
Grounding Device, page 1386
Panels for Type 1 Enclosures and Small Type 3R Enclosures, page 1333
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A1SM

INDUSTRY STANDARDS

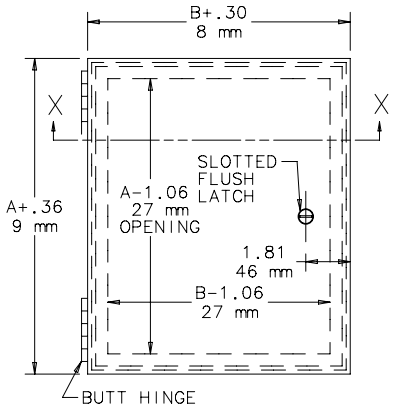
UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

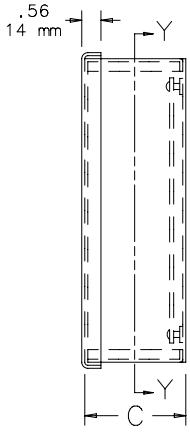
NEMA/EEMAC Type 1
CSA, File 42184: Type 1
IEC 60529, IP30

Standard Product

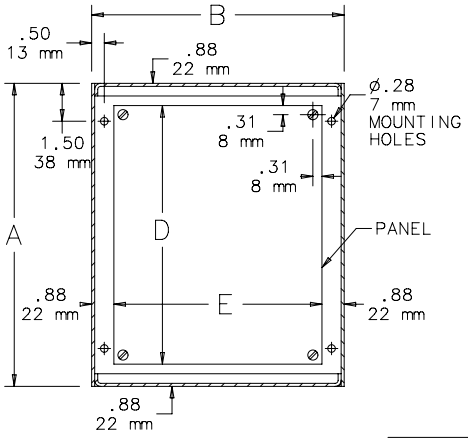
Catalog Number	AxBxC in./mm	Panel	Perforated Panel	Panel Size D x E in./mm
A6N64	6.00 x 6.00 x 4.00 152 x 152 x 102	A6N6P	A6N6PP	4.25 x 4.25 108 x 108
A8N64	8.00 x 6.00 x 4.00 203 x 152 x 102	A8N6P	A8N6PP	6.25 x 4.25 159 x 108
A8N84	8.00 x 8.00 x 4.00 203 x 203 x 102	A8N8P	A8N8PP	6.25 x 6.25 159 x 159
A10N84	10.00 x 8.00 x 4.00 254 x 203 x 102	A10N8P	A10N8PP	8.25 x 6.25 210 x 159
A10N104	10.00 x 10.00 x 4.00 254 x 254 x 102	A10N10P	A10N10PP	8.25 x 8.25 210 x 210
A12N104	12.00 x 10.00 x 4.00 305 x 254 x 102	A12N10P	A12N10PP	10.25 x 8.25 260 x 210
A12N124	12.00 x 12.00 x 4.00 305 x 305 x 102	A12N12P	A12N12PP	10.25 x 10.25 260 x 260
A14N124	14.00 x 12.00 x 4.00 356 x 305 x 102	A14N12P	A14N12PP	12.25 x 10.25 311 x 260
A8N66	8.00 x 6.00 x 6.00 203 x 152 x 152	A8N6P	A8N6PP	6.25 x 4.25 159 x 108
A8N86	8.00 x 8.00 x 6.00 203 x 203 x 152	A8N8P	A8N8PP	6.25 x 6.25 159 x 159
A10N86	10.00 x 8.00 x 6.00 254 x 203 x 152	A10N8P	A10N8PP	8.25 x 6.25 210 x 159
A10N106	10.00 x 10.00 x 6.00 254 x 254 x 152	A10N10P	A10N10PP	8.25 x 8.25 210 x 210
A12N106	12.00 x 10.00 x 6.00 305 x 254 x 152	A12N10P	A12N10PP	10.25 x 8.25 260 x 210
A12N126	12.00 x 12.00 x 6.00 305 x 305 x 152	A12N12P	A12N12PP	10.25 x 10.25 260 x 260
A14N126	14.00 x 12.00 x 6.00 356 x 305 x 152	A14N12P	A14N12PP	12.25 x 10.25 311 x 260
A16N126	16.00 x 12.00 x 6.00 406 x 305 x 152	A16N12P	A16N12PP	14.25 x 10.25 362 x 260
A20N126	20.00 x 12.00 x 6.00 508 x 305 x 152	A20N12P	A20N12PP	18.25 x 10.25 464 x 260
A12N128	12.00 x 12.00 x 8.00 305 x 305 x 203	A12N12P	A12N12PP	10.25 x 10.25 260 x 260
A14N128	14.00 x 12.00 x 8.00 356 x 305 x 203	A14N12P	A14N12PP	12.25 x 10.25 311 x 260

Purchase panels separately.

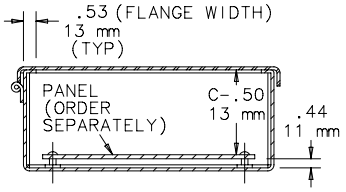




NOTE: 1. Panels are 14 gauge steel.
2. Panel screws have #10-32 threads.

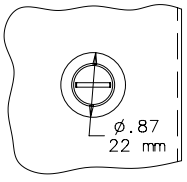


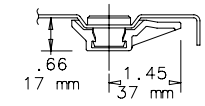
SECTION Y-Y



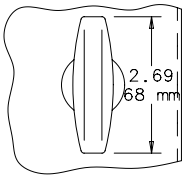
SECTION X-X

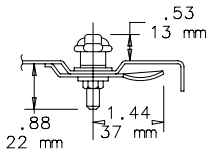
Optional Latches



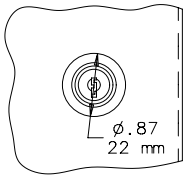


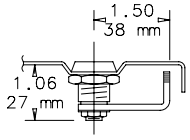
Standard Slotted
Flush Latch





"T" Handle Latch Kit
AL7A





Cylinder Lock Kit
AL12AR

C2572-C

nVent | HOFFMAN

MEDIUM, TYPE 1

APPLICATION

These enclosures have a size range of 16 x 12 x 6-in. to 36 x 30 x 12-in. and meet basic functionality requirements for applications that do not require oil- or dust-tight enclosures.

FEATURES

- Doors have butt hinges
- Collar studs provided for mounting optional panel
- Slotted flush latches; optional latches available
- Mounting holes on back of enclosure

SPECIFICATIONS

- 14 or 12 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces. Optional solid panels are white and optional perforated panels are gray.

ACCESSORIES

T-Handle Latch and Keyed Cylinder Lock Kits, page 1368
Electric Heaters, page 1236
Electrical Interlocks, page 1390
Grounding Device, page 1386
Panels for Medium Type 1 Enclosures, page 1333
Rack Mounting Angles - U Style (Type RA), page 1414
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A1M

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

NEMA/EEMAC Type 1
CSA, File 42184: Type 1
IEC 60529, IP30

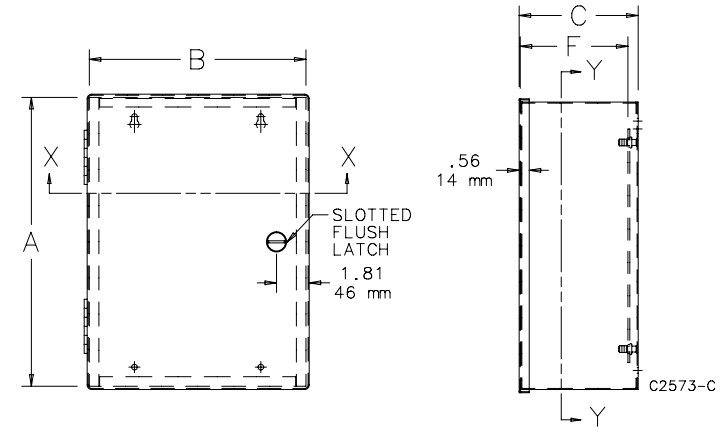
Standard Product

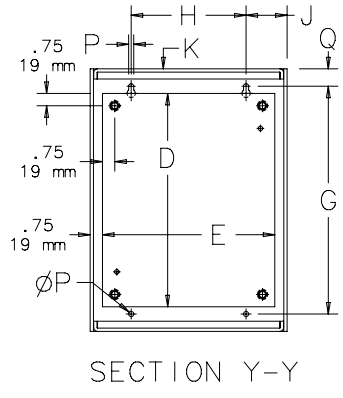
Catalog Number	AxBxC in./mm	Panel	Perforated Panel	Panel Size D x E in./mm	Panel Gauge	G in./mm	H in./mm	J in./mm	Q in./mm	P in./mm	F in./mm	K in./mm
A16N12ALP	16.00 x 12.00 x 6.62 406 x 305 x 168	A16N12MP	A16N12MPP	13.00 x 10.50 330 x 267	14	13.88 353	7.00 178	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A16N16ALP	16.00 x 16.00 x 6.62 406 x 406 x 168	A16N16MP	A16N16MPP	13.00 x 14.50 330 x 368	14	13.88 353	11.00 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A16N20ALP	16.00 x 20.00 x 6.62 406 x 508 x 168	A16N20MP	A16N20MPP	13.00 x 18.50 330 x 470	14	13.88 353	15.00 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A20N16ALP	20.00 x 16.00 x 6.62 508 x 406 x 168	A20N16MP	A20N16MPP	17.00 x 14.50 432 x 368	14	17.88 454	11.00 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A20N20ALP	20.00 x 20.00 x 6.62 508 x 508 x 168	A20N20MP	A20N20MPP	17.00 x 18.50 432 x 470	14	17.88 454	15.00 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N16ALP	24.00 x 16.00 x 6.62 610 x 406 x 168	A24N16MP	A24N16MPP	21.00 x 14.50 533 x 368	14	21.88 556	11.00 279	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N20ALP	24.00 x 20.00 x 6.62 610 x 508 x 168	A24N20MP	A24N20MPP	21.00 x 18.50 533 x 470	14	21.88 556	15.00 381	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A24N24ALP	24.00 x 24.00 x 6.62 610 x 610 x 168	A24N24MP	A24N24MPP[a]	21.00 x 22.50 533 x 572	12	21.88 556	19.00 483	2.50 64	1.06 27	0.31 8	6.00 152	1.50 38
A30N24ALP	30.00 x 24.00 x 6.62 762 x 610 x 168	A30N24MP	A30N24MPP[a]	26.00 x 22.50 660 x 572	12	27.50 699	16.75 425	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A36N24ALP	36.00 x 24.00 x 6.62 914 x 610 x 168	A36N24MP	A36N24MPP[a]	32.00 x 22.50 813 x 572	12	33.50 851	16.75 425	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A36N30ALP	36.00 x 30.00 x 6.62 914 x 762 x 168	A36N30MP	A36N30MPP[a]	32.00 x 28.50 813 x 724	12	33.50 851	22.75 578	3.62 92	1.25 32	0.44 11	6.00 152	2.00 51
A16N12BLP	16.00 x 12.00 x 8.62 406 x 305 x 219	A16N12MP	A16N12MPP	13.00 x 10.50 330 x 267	14	13.88 353	7.00 178	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A20N12BLP	20.00 x 12.00 x 8.62 508 x 305 x 219	A20N12MP	A20N12MPP	17.00 x 10.50 432 x 267	14	17.88 454	7.00 178	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A20N16BLP	20.00 x 16.00 x 8.62 508 x 406 x 219	A20N16MP	A20N16MPP	17.00 x 14.50 432 x 368	14	17.88 454	11.00 279	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A20N20BLP	20.00 x 20.00 x 8.62 508 x 508 x 219	A20N20MP	A20N20MPP	17.00 x 18.50 432 x 470	14	17.88 454	15.00 381	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A24N20BLP	24.00 x 20.00 x 8.62 610 x 508 x 219	A24N20MP	A24N20MPP	21.00 x 18.50 533 x 470	14	21.88 556	15.00 381	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A24N24BLP	24.00 x 24.00 x 8.62 610 x 610 x 219	A24N24MP	A24N24MPP[a]	21.00 x 22.50 533 x 572	12	21.88 556	19.00 483	2.50 64	1.06 27	0.31 8	8.00 203	1.50 38
A30N20BLP	30.00 x 20.00 x 8.62 762 x 508 x 219	A30N20MP	A30N20MPP[a]	26.00 x 18.50 660 x 470	12	27.50 699	15.00 381	2.50 64	1.25 32	0.44 11	8.00 203	2.00 51
A30N24BLP	30.00 x 24.00 x 8.62 762 x 610 x 219	A30N24MP	A30N24MPP[a]	26.00 x 22.50 660 x 572	12	27.50 699	16.75 425	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A30N30BLP	30.00 x 30.00 x 8.62 762 x 762 x 219	A30N30MP	A30N30MPP[a]	26.00 x 28.50 660 x 724	12	27.50 699	22.75 578	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51

Catalog Number	AxBxC in./mm	Panel	Perforated Panel	Panel Size D x E in./mm	Panel Gauge	G in./mm	H in./mm	J in./mm	Q in./mm	P in./mm	F in./mm	K in./mm
A36N24BLP	36.00 x 24.00 x 8.62 914 x 610 x 219	A36N24MP	A36N24MPP[a]	32.00 x 22.50 813 x 572	12	33.50 851	16.75 425	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A36N30BLP	36.00 x 30.00 x 8.62 914 x 762 x 219	A36N30MP	A36N30MPP[a]	32.00 x 28.50 813 x 724	12	33.50 851	22.75 578	3.62 92	1.25 32	0.44 11	8.00 203	2.00 51
A18N18CLP	18.00 x 18.00 x 10.62 457 x 457 x 270	A18N18MP	A18N18MPP	15.00 x 16.50 381 x 419	14	15.88 403	13.00 330	2.50 64	1.06 27	0.31 8	10.00 254	1.50 38
A24N20CLP	24.00 x 20.00 x 10.62 610 x 508 x 270	A24N20MP	A24N20MPP	21.00 x 18.50 533 x 470	14	21.88 556	15.00 381	2.50 64	1.06 27	0.31 8	10.00 254	1.50 38
A30N24CLP	30.00 x 24.00 x 10.62 762 x 610 x 270	A30N24MP	A30N24MPP[a]	21.00 x 22.50 533 x 572	12	27.50 699	16.75 425	3.62 92	1.25 32	0.44 11	10.00 254	2.00 51
A24N24DLP	24.00 x 24.00 x 12.62 610 x 610 x 321	A24N24MP	A24N24MPP[a]	21.00 x 22.50 533 x 572	12	21.88 556	19.00 483	2.50 64	1.06 27	0.31 8	12.00 305	1.50 38
A30N24DLP	30.00 x 24.00 x 12.62 762 x 610 x 321	A30N24MP	A30N24MPP[a]	26.00 x 22.50 660 x 724	12	27.50 699	16.75 425	3.62 92	1.25 32	0.44 11	12.00 305	2.00 51
A36N30DLP	36.00 x 30.00 x 12.62 914 x 762 x 321	A36N30MP	A36N30MPP[a]	32.00 x 28.50 813 x 724	12	33.50 851	22.75 578	3.62 92	1.25 32	0.44 11	12.00 305	2.00 51

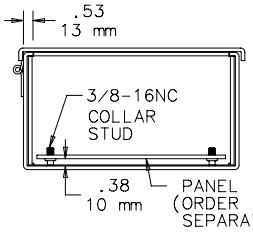
Purchase panels separately.

[a]Flanged on all four sides





SECTION Y-Y



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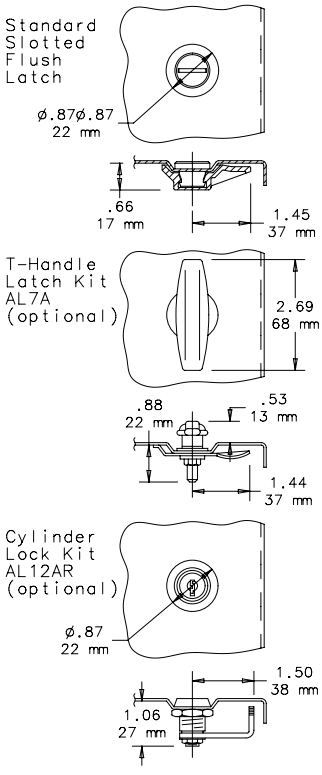

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LARGE, TYPE 1

APPLICATION

These enclosures have a size range of 42 x 30 x 9-in. to 48 x 36 x 17-in. and meet basic functionality requirements for applications that do not require oil- or dust-tight enclosures.

FEATURES

- Continuous hinge on door
- Slotted flush latch; optional latches available
- Collar studs provided for mounting optional panels
- Mounting holes on back of enclosure; optional mounting bracket kit is available (AMFLN1)

SPECIFICATIONS

- 14 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces. Optional panels are white.

ACCESSORIES

T-Handle Latch and Keyed Cylinder Lock Kits, page 1368
Electric Heaters, page 1236
Electrical Interlocks, page 1390
Grounding Device, page 1386
Panels for Medium Type 1 Enclosures, page 1333
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A1L

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

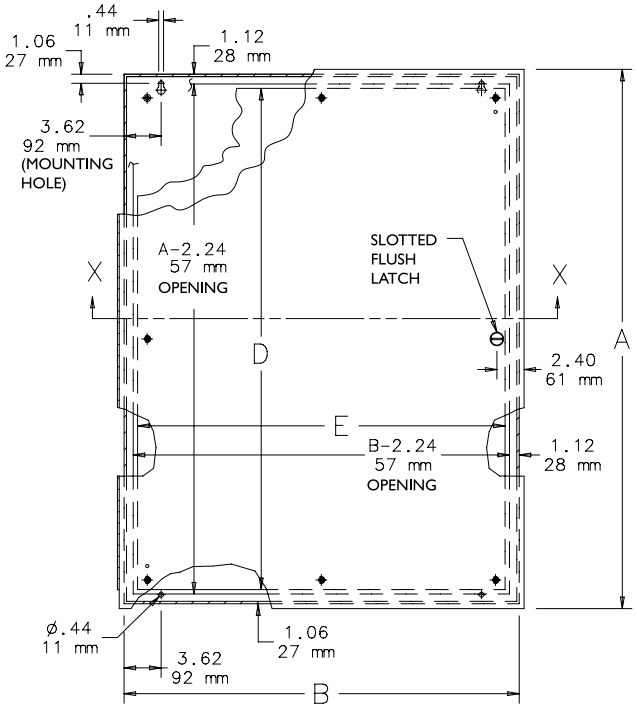
NEMA/EEMAC Type 1
CSA, File 42184: Type 1
IEC 60529, IP30

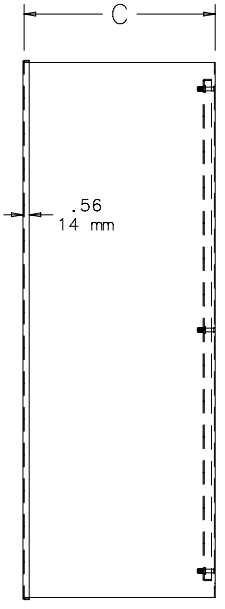
Standard Product

Catalog Number	AxBxC in./mm	Panel	Panel Size D x E in./mm	Mounting Bracket Kit
A42N3009	42.00 x 30.00 x 9.25 1067 x 762 x 235	A42P30	39.00 x 27.00 991 x 686	AMFLN1
A42N3609	42.00 x 36.00 x 9.25 1067 x 914 x 235	A42P36	39.00 x 33.00 991 x 838	AMFLN1
A48N3609	48.00 x 36.00 x 9.25 1219 x 914 x 235	A48P36	45.00 x 33.00 1143 x 838	AMFLN1
A48N3611	48.00 x 36.00 x 11.00 1219 x 914 x 279	A48P36	45.00 x 33.00 1143 x 838	AMFLN1
A42N3013	42.00 x 30.00 x 13.25 1067 x 762 x 337	A42P30	39.00 x 27.00 991 x 686	AMFLN1
A42N3613	42.00 x 36.00 x 13.25 1067 x 914 x 337	A42P36	39.00 x 33.00 991 x 838	AMFLN1
A48N3613	48.00 x 36.00 x 13.25 1219 x 914 x 337	A48P36	45.00 x 33.00 1143 x 838	AMFLN1
A48N3617	48.00 x 36.00 x 17.00 1219 x 914 x 432	A48P36	45.00 x 33.00 1143 x 838	AMFLN1

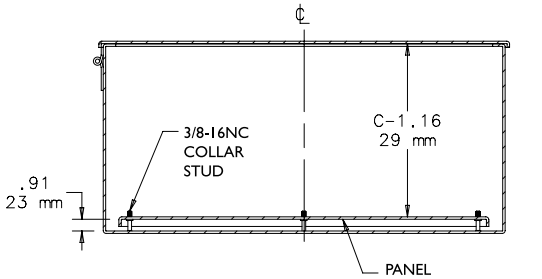
Purchase panels separately. Optional aluminum panels are available for most sizes.

Mounting Bracket Kit must be ordered separately.

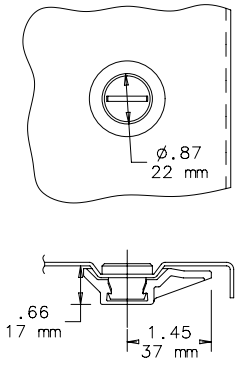




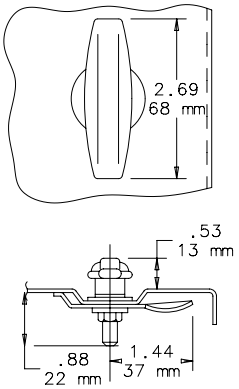
C2574-C



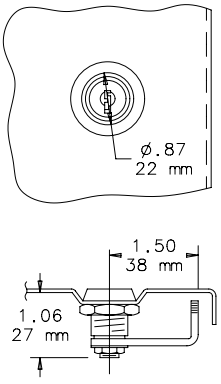
SECTION X–X



Standard Slotted Flush Latch



"T" Handle Latch Kit AL7A (optional)



Cylinder Lock Kit AL12AR (optional)

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LOCKING INTEGRATED PERFORATED PANEL ENCLOSURE, TYPE 1

Example of Integrated Panel; wiring devices not included.

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

The perforated panel that ships inside these enclosures accepts self-tapping screws and eliminates the need to measure, mark and drill when mounting components, which results in labor and time savings.

FEATURES

- Door has key lock quarter-turn latch; two keys included
- Select models have concentric knockouts on four sides

SPECIFICATIONS

- 14 and 16 gauge steel
- Includes removable 16 gauge gray perforated panel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.

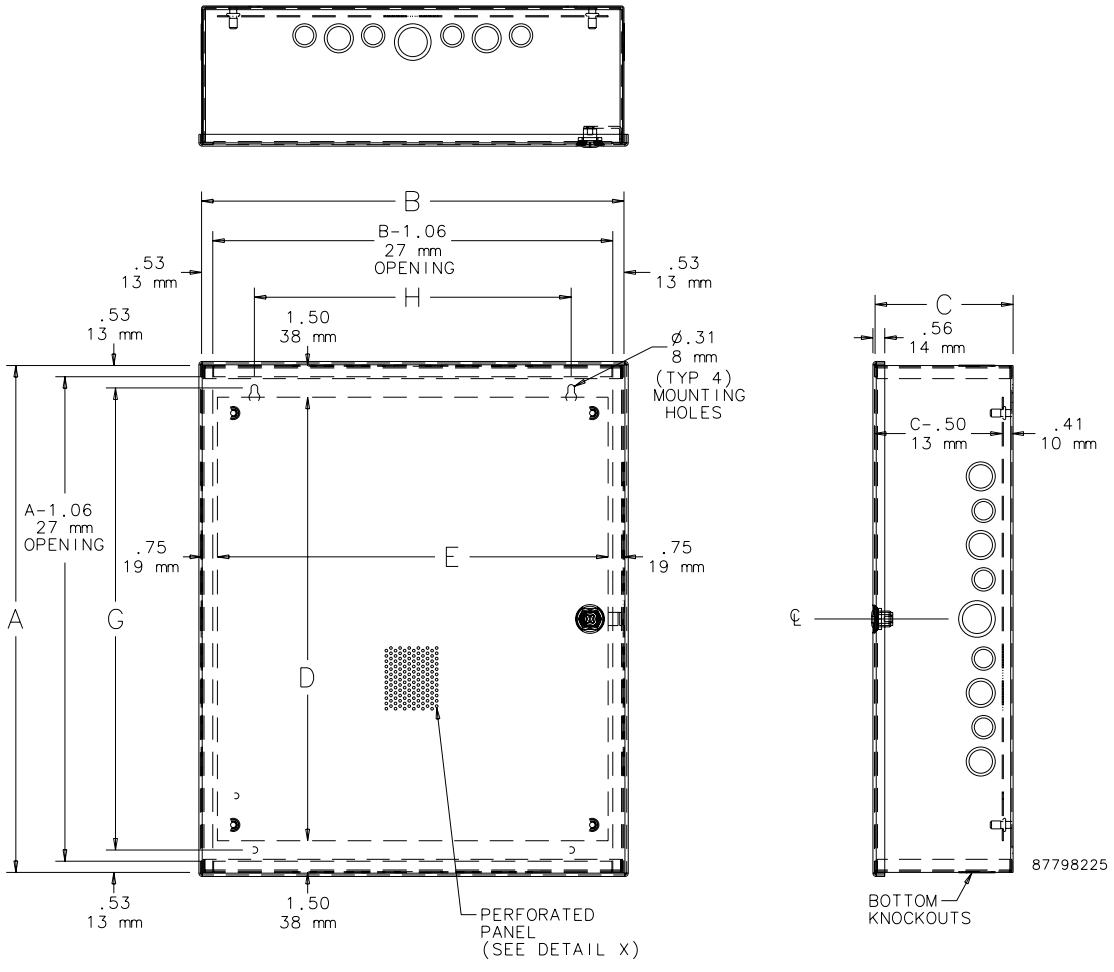
ACCESSORIES

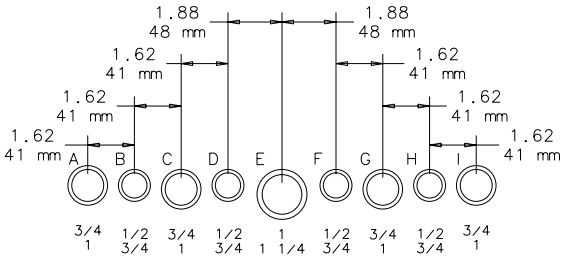
Touch-Up Paint, page 1379

BULLETIN: A1PP

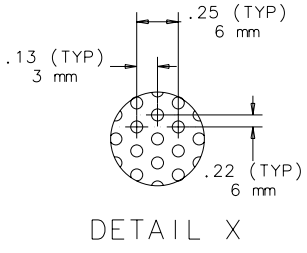
Standard Product

Catalog Number	AxBxC in./mm	Panel Size D x E in./mm	Mounting Holes G x H in./mm	Knockout Pattern A-Sides	Knockout Pattern B-Sides
A12126T1PP	12.00 x 12.00 x 6.00 305 x 305 x 152	10.25 x 10.25 260 x 260	9.00 x 11.00 229 x 279	C-D-E-F-G	C-D-E-F-G
A16126T1PP	16.00 x 12.00 x 6.00 406 x 305 x 152	14.25 x 10.25 362 x 260	13.00 x 11.00 330 x 279	B-C-D-E-F-G-H	C-D-E-F-G
A2016AT1PP	20.00 x 16.00 x 6.62 508 x 406 x 168	17.00 x 14.50 432 x 368	17.88 x 11.00 454 x 279	A-B-C-D-E-F-G-H-I	B-C-D-E-F-G-H
A2420AT1PP	24.00 x 20.00 x 6.62 610 x 508 x 168	21.00 x 18.50 533 x 470	21.88 x 15.00 556 x 381	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
A3624AT1PP	36.00 x 24.00 x 6.62 914 x 610 x 168	32.00 x 22.50 813 x 572	33.50 x 16.75 851 x 425	—	—
A3630AT1PP	36.00 x 30.00 x 6.62 914 x 762 x 168	32.00 x 31.50 813 x 800	33.50 x 22.75 851 x 578	—	—





KNOCKOUT PATTERN



DETAIL X

nVent | HOFFMAN

LOCKING UTILITY CABINETS, TYPE 1

Two shelves included

A242412UC, A302412UC, A363012UC

A12122UC

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File Number E27567
cUL Listed per CSA C22.2 No 40; Type 1; File Number E27567

NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

Key hook and shelf models of this cabinet protect fuses and other components and can be equipped with a combination lock for applications that require security.

SHELF MODELS A242412UC, A302412UC, A363012UC
Shelf cabinets provide a level of security for storage of equipment, fuses, and other components. Two shelves included with shelf models are easily adjusted without tools by placing tabs in slots located on enclosure sides.

KEY HOOK MODEL A12122UC
Use as a key cabinet or a hanging locker to organize items that require a level of security. Key hook model has integral hooks assembled in door and back of enclosure.

FEATURES

- Four mounting keyholes in back of enclosure
- Removable door with reversible hinge; door can hinge from either left or right side and can be changed without tools
- Door has quarter-turn key lock; two keys included
- Combination lock is available as an accessory and is interchangeable with standard cutout and latch cam
- Retractable spring hinge
- No gasketing

SPECIFICATIONS

- 16 or 14 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside an out

ACCESSORIES

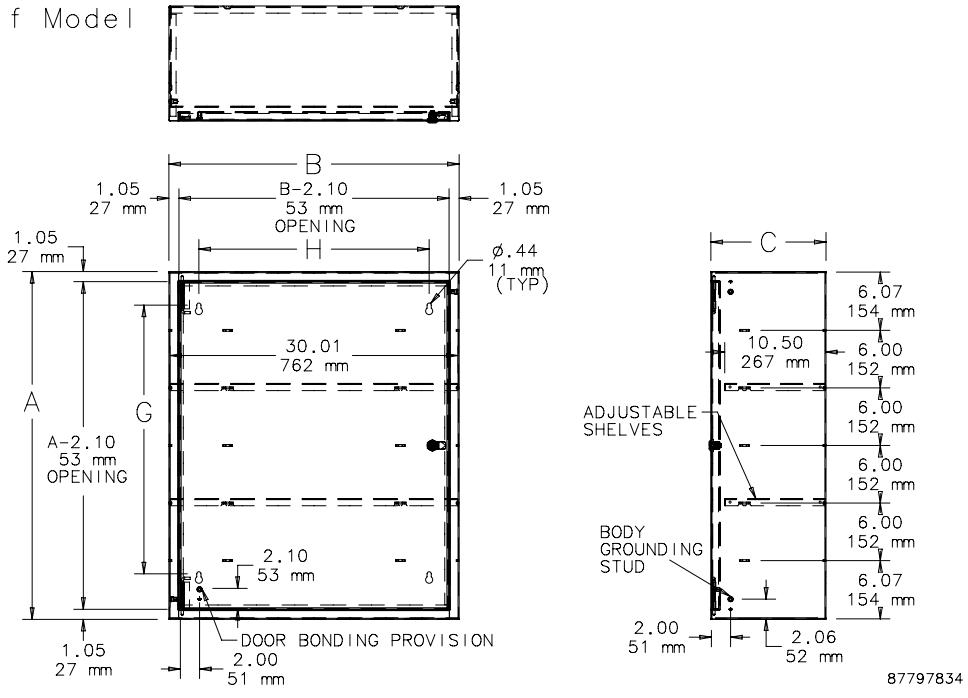
Locking Utility Cabinets Accessories, page 777
Touch-Up Paint, page 1379

BULLETIN: A1UC

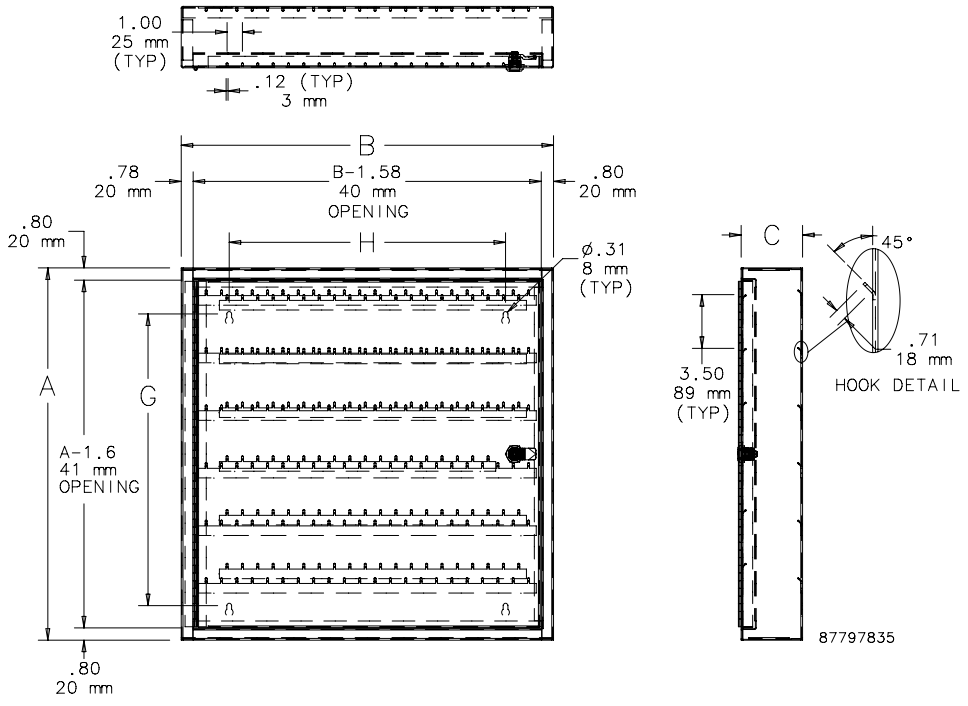
Standard Product

Catalog Number	AxBxC in./mm	Description	Mounting Holes G in./mm	Mounting Holes H in./mm	Maximum No. Shelf Locations/Hooks
A242412UC	24.00 x 24.00 x 12.00 610 x 610 x 305	Shelf Model	16.00 406	18.00 457	3 Shelves
A302412UC	30.00 x 24.00 x 12.00 762 x 610 x 305	Shelf Model	22.00 558	18.00 457	4 Shelves
A363012UC	36.00 x 30.00 x 12.00 914 x 762 x 305	Shelf Model	28.00 711	24.00 610	5 Shelves
A12122UC	12.00 x 12.00 x 2.00 305 x 305 x 51	Key Hook Model	7.00 178	7.25 184	52 Hooks

Shelf Model



Key Cabinet



LOCKING UTILITY CABINETS ACCESSORIES

BULLETIN: A1UC, DWS12

Catalog Number	Description
A30S12UC	Double-Sided, Solid Aluminum Shelf
PTLCMB3B	Combination Lock

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SCREW-COVER, GASKETED, TYPE 3

INDUSTRY STANDARDS

UL 508A Listed; Type 3, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3, 12; File No. E61997

NEMA/EEMAC Type 3 and 12 (except for mounting provisions)
CSA, File 42184: Type 4 and 12
IEC 60529, IP66

APPLICATION

Use this enclosure as a wiring, junction, pull or terminal box in applications subject to windblown dust and/or rain.

FEATURES

- Captivated stainless steel cover screws thread into sealed wells
- Oil-resistant gasket and adhesive
- Seams continuously welded and ground smooth
- No holes or knockouts
- Grounding stud on inside back of box

SPECIFICATIONS

- 14 or 12 gauge G-90 grade galvanized steel bodies
- 12 or 10 gauge G-90 grade galvanized steel covers

FINISH

Cover is unpainted. Body external welds have zinc-rich ANSI 61 powder.

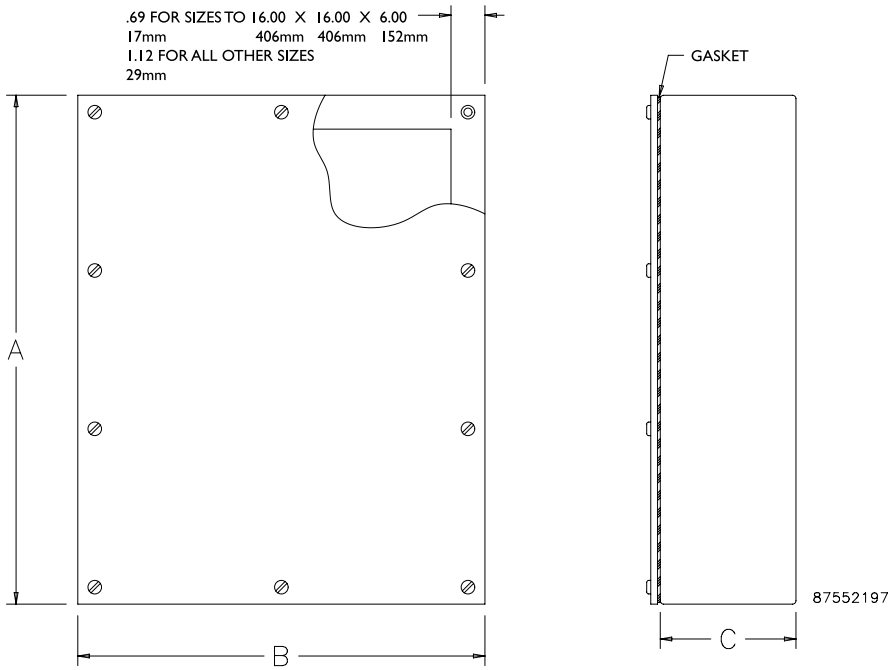
ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Grounding Device, page 1386
Mounting Bracket Kit, page 793

BULLETIN: A90GS

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Body Gauge	Cover Gauge	Number of Cover Screws
A664GSC	6.00 x 6.00 x 4.00	152 x 152 x 102	14	12	4
A864GSC	8.00 x 6.00 x 4.00	203 x 152 x 102	14	12	4
A884GSC	8.00 x 8.00 x 4.00	203 x 203 x 102	14	12	4
A1084GSC	10.00 x 8.00 x 4.00	254 x 203 x 102	14	12	6
A10104GSC	10.00 x 10.00 x 4.00	254 x 254 x 102	14	12	8
A12124GSC	12.00 x 12.00 x 4.00	305 x 305 x 102	14	12	8
A666GSC	6.00 x 6.00 x 6.00	152 x 152 x 152	14	12	4
A886GSC	8.00 x 8.00 x 6.00	203 x 203 x 152	14	12	4
A10106GSC	10.00 x 10.00 x 6.00	254 x 254 x 152	14	12	8
A12106GSC	12.00 x 10.00 x 6.00	305 x 254 x 152	14	12	8
A12126GSC	12.00 x 12.00 x 6.00	305 x 305 x 152	14	12	8
A16126GSC	16.00 x 12.00 x 6.00	406 x 305 x 152	14	12	8
A16166GSC	16.00 x 16.00 x 6.00	406 x 406 x 152	14	10	8
A18186GSC	18.00 x 18.00 x 6.00	457 x 457 x 152	14	10	8
A20166GSC	20.00 x 16.00 x 6.00	508 x 406 x 152	14	10	8
A24246GSC	24.00 x 24.00 x 6.00	610 x 610 x 152	14	10	12
A888GSC	8.00 x 8.00 x 8.00	203 x 203 x 203	14	12	4
A10108GSC	10.00 x 10.00 x 8.00	254 x 254 x 203	14	12	8
A12128GSC	12.00 x 12.00 x 8.00	305 x 305 x 203	14	12	8
A16168GSC	16.00 x 16.00 x 8.00	406 x 406 x 203	14	10	8
A20208GSC	20.00 x 20.00 x 8.00	508 x 508 x 203	14	10	8
A24208GSC	24.00 x 20.00 x 8.00	610 x 508 x 203	14	10	10
A24248GSC	24.00 x 24.00 x 8.00	610 x 610 x 203	14	10	12
A30248GSC	30.00 x 24.00 x 8.00	762 x 610 x 203	14	10	12
A242410GSC	24.00 x 24.00 x 10.00	610 x 610 x 254	14	10	12
A121212GSC	12.00 x 12.00 x 12.00	305 x 305 x 305	14	12	8
A161612GSC	16.00 x 16.00 x 12.00	406 x 406 x 305	14	10	8
A202012GSC	20.00 x 20.00 x 12.00	508 x 508 x 305	14	10	8
A242412GSC	24.00 x 24.00 x 12.00	610 x 610 x 305	14	10	12
A303012GSC	30.00 x 30.00 x 12.00	762 x 762 x 305	12	10	12
A363612GSC	36.00 x 36.00 x 12.00	914 x 914 x 305	12	10	16



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SCREW-COVER, TYPE 3R

APPLICATION

Use this enclosure with or without knockouts in outdoor applications as a wiring or junction box.

FEATURES

- Drip shield top and seam-free sides, front and back
- Slip-on removable cover fastened with plated steel screws along bottom edge
- Handles on larger sizes (see table)
- Embossed mounting holes on back of enclosure
- Knockouts in bottom of 16 and 14 gauge enclosures
- Provision for padlocking
- No gasketing

SPECIFICATIONS

- 16, 14 or 12 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Grounding Device, page 1386
Mounting Bracket Kit, page 793
Touch-Up Paint, page 1379

BULLETIN: A90S3

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA/EEMAC Type 3R
IEC 60529, IP32

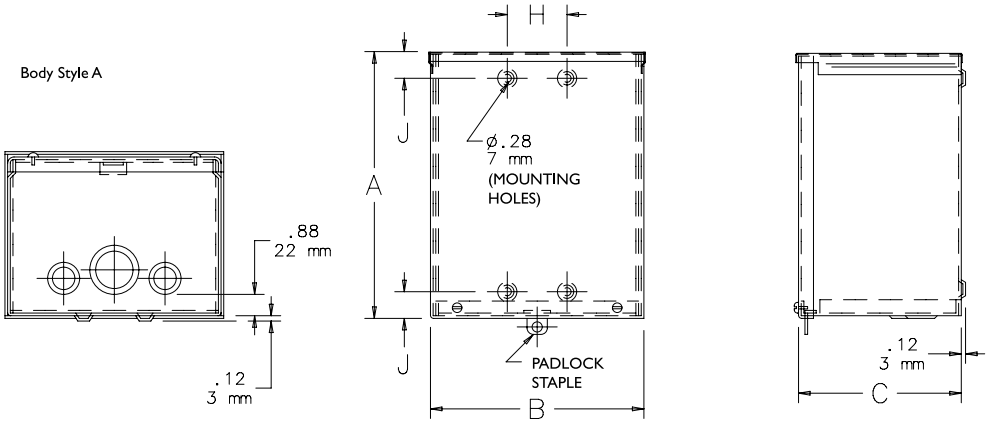
Standard Product

Catalog Number	AxBxC in./mm	Body Style	Body Thickness (ga.)	Cover Thickness (ga.)	D in./mm	Mounting H in./mm	Mounting J in./mm	Knockout Pattern
A4R44	4.00 x 4.00 x 4.00 102 x 102 x 102	A	16	16	— —	1.88 48	2.00 51	B-C
A6R44	6.00 x 4.00 x 4.00 152 x 102 x 102	A	16	16	— —	1.88 48	1.06 27	B-C
A12R44	12.00 x 4.00 x 4.00 305 x 102 x 102	A	16	16	— —	1.88 48	1.06 27	B-C
A6R64	6.00 x 6.00 x 4.00 152 x 152 x 102	A	16	16	— —	2.25 57	1.06 27	B-C-D
A8R64	8.00 x 6.00 x 4.00 203 x 152 x 102	A	16	16	— —	2.25 57	1.06 27	B-C-D
A8R84	8.00 x 8.00 x 4.00 203 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A10R84	10.00 x 8.00 x 4.00 254 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A12R84	12.00 x 8.00 x 4.00 305 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A10R104	10.00 x 10.00 x 4.00 254 x 254 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A12R104	12.00 x 10.00 x 4.00 305 x 254 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A12R124	12.00 x 12.00 x 4.00 305 x 305 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A18R124	18.00 x 12.00 x 4.00 457 x 305 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A18R184	18.00 x 18.00 x 4.00 457 x 457 x 102	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A6R66	6.00 x 6.00 x 6.00 152 x 152 x 152	A	16	16	— —	2.25 57	1.06 27	B-C-D
A8R86	8.00 x 8.00 x 6.00 203 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A10R86	10.00 x 8.00 x 6.00 254 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A10R106	10.00 x 10.00 x 6.00 254 x 254 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A12R86	18.00 x 8.00 x 6.00 457 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A12R106	12.00 x 10.00 x 6.00 305 x 254 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A12R126	12.00 x 12.00 x 6.00 305 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G

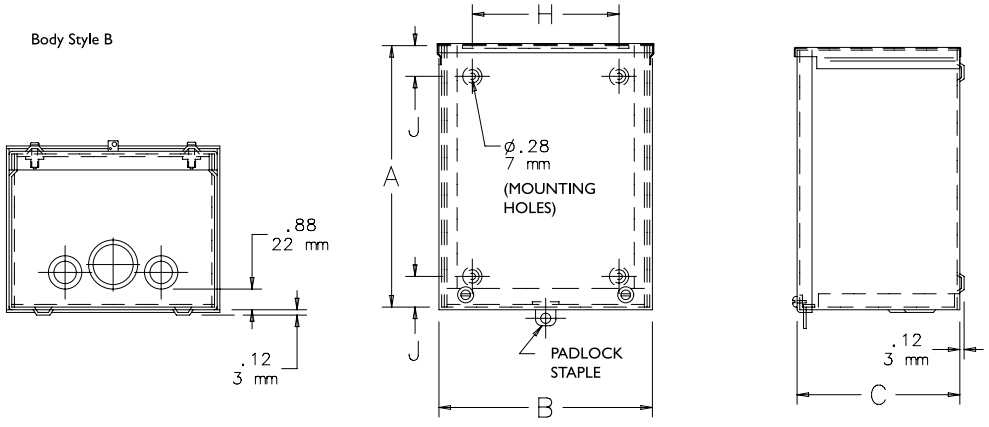
Catalog Number	AxBxC in./mm	Body Style	Body Thickness (ga.)	Cover Thickness (ga.)	D in./mm	Mounting H in./mm	Mounting J in./mm	Knockout Pattern
A15R126	15.00 x 12.00 x 6.00 381 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A16R126	16.00 x 12.00 x 6.00 406 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A18R126	18.00 x 12.00 x 6.00 457 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A18R186	18.00 x 18.00 x 6.00 457 x 457 x 152	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R126	24.00 x 12.00 x 6.00 610 x 305 x 152	B	16	16	— —	13.00 330	1.12 28	C-D-E-F-G
A24R186	24.00 x 18.00 x 6.00 610 x 457 x 152	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R246	24.00 x 24.00 x 6.00 610 x 610 x 152	B	14	14	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A8R88	8.00 x 8.00 x 8.00 203 x 203 x 203	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A12R128	12.00 x 12.00 x 8.00 305 x 305 x 203	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A15R128	15.00 x 12.00 x 8.00 381 x 305 x 203	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A18R128	18.00 x 12.00 x 8.00 457 x 305 x 203	A	16	16	— —	2.25 57	1.12 28	C-D-E-F-G
A24R168	24.00 x 16.00 x 8.00 610 x 406 x 203	B	16	16	— —	13.00 330	1.12 28	C-D-E-F-G
A18R188	18.00 x 18.00 x 8.00 457 x 457 x 203	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R188	24.00 x 18.00 x 8.00 610 x 457 x 203	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R208	24.00 x 20.00 x 8.00 610 x 508 x 203	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R248	24.00 x 24.00 x 8.00 610 x 610 x 203	C	14	14	12.19 310	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A30R248	30.00 x 24.00 x 8.00 762 x 610 x 203	C	14	14	15.19 386	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A48R368	48.00 x 36.00 x 8.00 1219 x 914 x 203	C	12	12	24.19 614	33.00 838	1.50 38	A-B-C-D-E-F-G-H-I
A18R1810	18.00 x 18.00 x 10.00 457 x 457 x 254	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R1810	24.00 x 18.00 x 10.00 610 x 457 x 254	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R2410	24.00 x 24.00 x 10.00 610 x 610 x 254	C	14	14	12.19 310	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A30R2410	30.00 x 24.00 x 10.00 762 x 610 x 254	C	14	14	15.19 386	13.00 330	1.50 38	A-B-C-D-E-F-G-H-I
A24R2412	24.00 x 24.00 x 12.00 610 x 610 x 305	C	14	14	12.19 310	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A30R3012	30.00 x 30.00 x 12.00 762 x 762 x 305	C	12	14	15.19 386	27.00 686	1.50 38	A-B-C-D-E-F-G-H-I
A36R3012	36.00 x 30.00 x 12.00 914 x 762 x 305	C	12	12	18.19 462	27.00 686	1.50 38	A-B-C-D-E-F-G-H-I
A36R3612	36.00 x 36.00 x 12.00 914 x 914 x 305	C	12	12	18.19 462	33.00 838	1.50 38	A-B-C-D-E-F-G-H-I
A30R3016	30.00 x 30.00 x 16.00 762 x 762 x 406	C	12	14	15.19 386	27.00 686	1.50 38	A-B-C-D-E-F-G-H-I
A48R3616	48.00 x 36.00 x 16.00 1219 x 914 x 406	C	12	12	24.19 614	33.00 838	1.50 38	A-B-C-D-E-F-G-H-I
A4R44NK	4.00 x 4.00 x 4.00 102 x 102 x 102	A	16	16	— —	1.88 48	2.00 51	—
A6R64NK	6.00 x 6.00 x 4.00 152 x 152 x 102	A	16	16	— —	2.25 57	1.06 27	—
A8R64NK	8.00 x 6.00 x 4.00 203 x 152 x 102	A	16	16	— —	2.25 57	1.06 27	—
A8R84NK	8.00 x 8.00 x 4.00 203 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	—
A10R84NK	10.00 x 8.00 x 4.00 254 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	—
A12R84NK	12.00 x 8.00 x 4.00 305 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	—
A10R104NK	10.00 x 10.00 x 4.00 254 x 254 x 102	A	16	16	— —	2.25 57	1.06 27	—
A12R104NK	12.00 x 10.00 x 4.00 305 x 254 x 102	A	16	16	— —	2.25 57	1.06 27	—
A12R124NK	12.00 x 12.00 x 4.00 305 x 305 x 102	A	16	16	— —	2.25 57	1.06 27	—
A18R184NK	18.00 x 18.00 x 4.00 457 x 457 x 102	B	16	16	— —	13.00 330	1.12 28	—
A6R66NK	6.00 x 6.00 x 6.00 152 x 152 x 152	A	16	16	— —	2.25 57	1.06 27	—

Catalog Number	AxBxC in./mm	Body Style	Body Thickness (ga.)	Cover Thickness (ga.)	D in./mm	Mounting H in./mm	Mounting J in./mm	Knockout Pattern
A18R66NK	18.00 x 6.00 x 6.00 457 x 152 x 152	A	16	16	— —	2.25 57	1.06 27	—
A8R86NK	8.00 x 8.00 x 6.00 203 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	—
A10R86NK	10.00 x 8.00 x 6.00 254 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	—
A10R106NK	10.00 x 10.00 x 6.00 254 x 254 x 152	A	16	16	— —	2.25 57	1.06 27	—
A12R106NK	12.00 x 10.00 x 6.00 305 x 254 x 152	A	16	16	— —	2.25 57	1.06 27	—
A12R126NK	12.00 x 12.00 x 6.00 305 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	—
A15R126NK	15.00 x 12.00 x 6.00 381 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	—
A16R126NK	16.00 x 12.00 x 6.00 406 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	—
A18R126NK	18.00 x 12.00 x 6.00 457 x 305 x 152	A	16	16	— —	2.25 57	1.06 27	—
A18R186NK	18.00 x 18.00 x 6.00 457 x 457 x 152	B	16	16	— —	13.00 330	1.12 28	—
A24R186NK	24.00 x 18.00 x 6.00 610 x 457 x 152	B	16	16	— —	13.00 330	1.12 28	—
A24R246NK	24.00 x 24.00 x 6.00 610 x 610 x 152	B	14	14	— —	13.00 330	1.12 28	—
A8R88NK	8.00 x 8.00 x 8.00 203 x 203 x 203	A	16	16	— —	2.25 1.06	1.06 27	—
A24R88NK	24.00 x 8.00 x 8.00 610 x 203 x 203	A	16	16	— —	2.25 1.06	1.06 27	—
A12R128NK	12.00 x 12.00 x 8.00 305 x 305 x 203	A	16	16	— —	2.25 57	1.06 27	—
A15R128NK	15.00 x 12.00 x 8.00 381 x 305 x 203	A	16	16	— —	2.25 57	1.06 27	—
A18R128NK	18.00 x 12.00 x 8.00 457 x 305 x 203	A	16	16	— —	2.25 57	1.12 28	—
A18R188NK	18.00 x 18.00 x 8.00 457 x 457 x 203	B	16	16	— —	13.00 330	1.12 28	—
A24R188NK	24.00 x 18.00 x 8.00 610 x 457 x 203	B	16	16	— —	13.00 330	1.12 28	—
A24R208NK	24.00 x 20.00 x 8.00 610 x 508 x 203	B	16	16	— —	13.00 330	1.12 28	—
A24R248NK	24.00 x 24.00 x 8.00 610 x 610 x 203	C	14	14	12.19 310	13.00 330	1.12 28	—
A30R248NK	30.00 x 24.00 x 8.00 762 x 610 x 203	C	14	14	15.19 386	13.00 330	1.12 28	—
A48R368NK	48.00 x 36.00 x 8.00 1219 x 914 x 203	C	12	12	24.19 614	33.00 838	1.50 38	—
A24R2410NK	24.00 x 24.00 x 10.00 610 x 610 x 254	C	14	14	12.19 310	13.00 330	1.12 28	—
A24R2412NK	24.00 x 24.00 x 12.00 610 x 610 x 305	C	14	14	12.19 310	13.00 330	1.12 28	—
A30R3012NK	30.00 x 30.00 x 12.00 762 x 762 x 305	C	12	14	15.19 386	27.00 686	1.50 38	—
A36R3012NK	36.00 x 30.00 x 12.00 914 x 762 x 305	C	12	12	18.19 462	27.00 686	1.50 38	—
A36R3612NK	36.00 x 36.00 x 12.00 914 x 914 x 305	C	12	12	18.19 462	33.00 838	1.50 38	—
A30R3016NK	30.00 x 30.00 x 16.00 762 x 762 x 406	C	12	14	15.19 386	27.00 686	1.50 38	—
A48R3616NK	48.00 x 36.00 x 16.00 1219 x 914 x 406	C	12	12	24.19 614	33.00 838	1.50 38	—

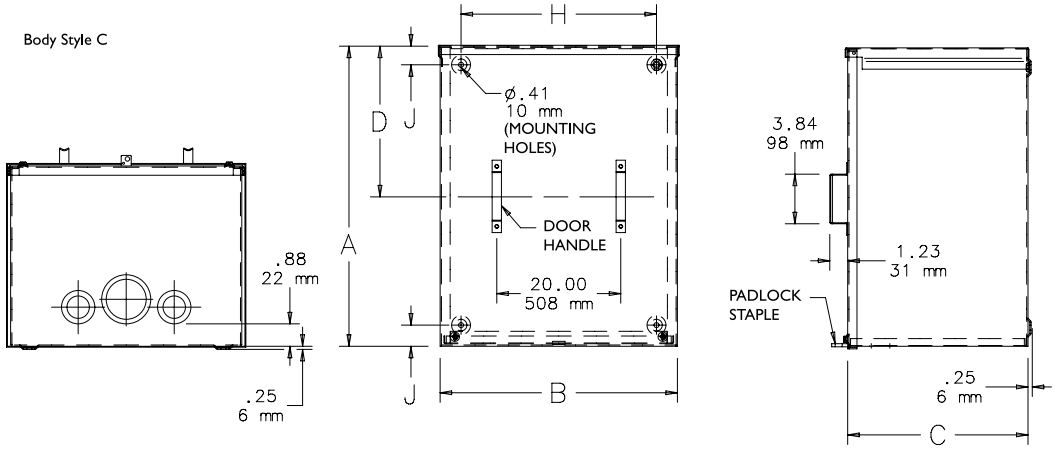
Body Style A

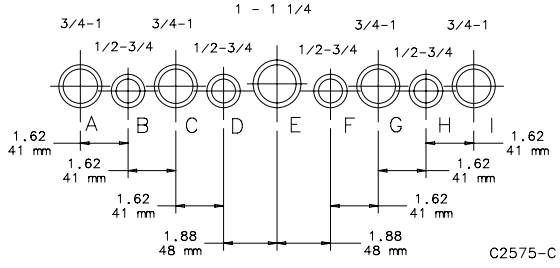


Body Style B



Body Style C





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SCREW-COVER GALVANIZED, TYPE 3R

APPLICATION

Use this enclosure as a wiring or junction box to protect controls in outdoor applications requiring galvanized steel.

FEATURES

- Drip-shield top and seam-free sides, front and back
- Slip-on removable cover fastened with plated steel screws along bottom edge
- Door handles on larger sides (body style C; see table)
- Embossed mounting holes on back of enclosure
- See table for knockout pattern
- Provision for padlocking
- No gasketing

SPECIFICATIONS

- 16 or 14 gauge galvanized steel

FINISH

Unpainted galvanized steel

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Grounding Device, page 1386
Mounting Bracket Kit, page 793

BULLETIN: A90G3

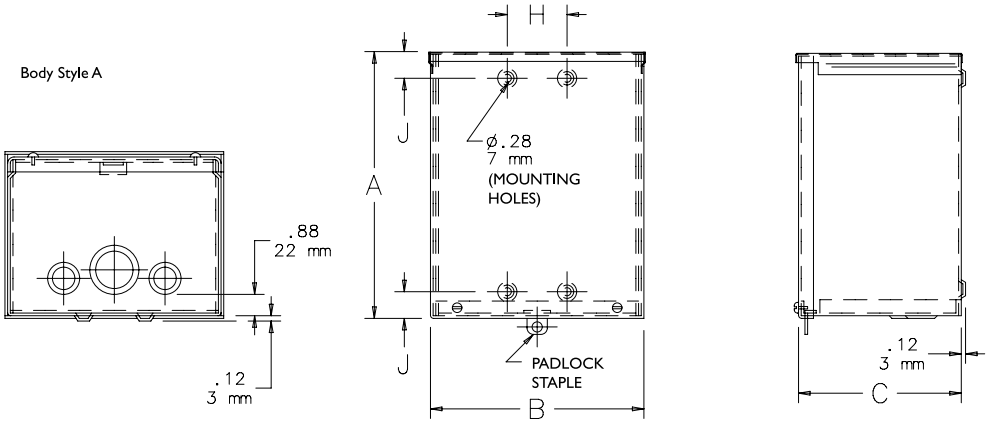
INDUSTRY STANDARDS

UL50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA/EEMAC Type 3R
IEC 60529, IP32

Standard Product

Catalog Number	AxBxC in./mm	Body Style	Body Thickness (ga.)	Cover Thickness (ga.)	D in./mm	Mounting H in./mm	Mounting J in./mm	Knockout Pattern
A4R44GV	4.00 x 4.00 x 4.00 102 x 102 x 120	A	16	16	— —	1.88 48	2.00 51	B-C
A6R64GV	6.00 x 6.00 x 4.00 152 x 152 x 102	A	16	16	— —	1.8 48	1.06 27	B-C-D
A8R84GV	8.00 x 8.00 x 4.00 203 x 203 x 102	A	16	16	— —	2.25 57	1.06 27	B-C-D
A10R104GV	10.00 x 10.00 x 4.00 254 x 254 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A12R124GV	12.00 x 12.00 x 4.00 305 x 305 x 102	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A6R66GV	6.00 x 6.00 x 6.00 152 x 152 x 152	A	16	16	— —	2.25 57	1.06 27	B-C-D
A8R86GV	8.00 x 8.00 x 6.00 203 x 203 x 152	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A10R106GV	10.00 x 10.00 x 6.00 254 x 254 x 152	A	16	16	— —	2.25 27	1.06 27	C-D-E-F-G
A12R126GV	12.00 x 12.00 x 6.00 305 x 305 x 152	A	16	16	— —	2.25 27	1.06 27	C-D-E-F-G
A18R186GV	18.00 x 18.00 x 6.00 457 x 457 x 152	B	16	16	— —	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A8R88GV	8.00 x 8.00 x 8.00 203 x 203 x 203	A	16	16	— —	2.25 57	1.06 27	F-G-H-I
A8R88GVNK	8.00 x 8.00 x 8.00 203 x 203 x 203	A	16	16	— —	2.25 57	1.06 27	—
A10R108GVNK	10.00 x 10.00 x 8.00 254 x 254 x 203	A	16	16	— —	2.25 57	1.06 27	—
A12R128GV	12.00 x 12.00 x 8.00 305 x 305 x 203	A	16	16	— —	2.25 57	1.06 27	C-D-E-F-G
A24R248GV	24.00 x 24.00 x 8.00 610 x 610 x 203	C	14	14	12.19 310	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I
A24R2410GV	24.00 x 24.00 x 10.00 610 x 610 x 254	C	14	14	12.19 310	13.00 330	1.12 28	A-B-C-D-E-F-G-H-I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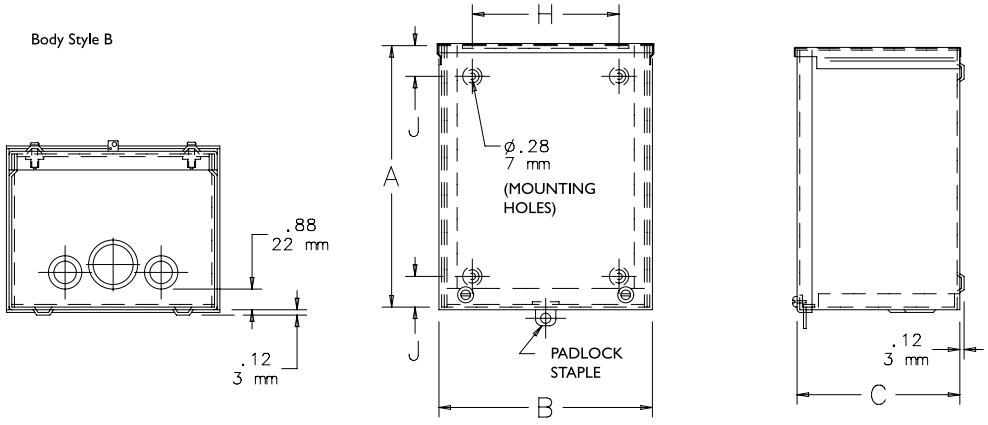
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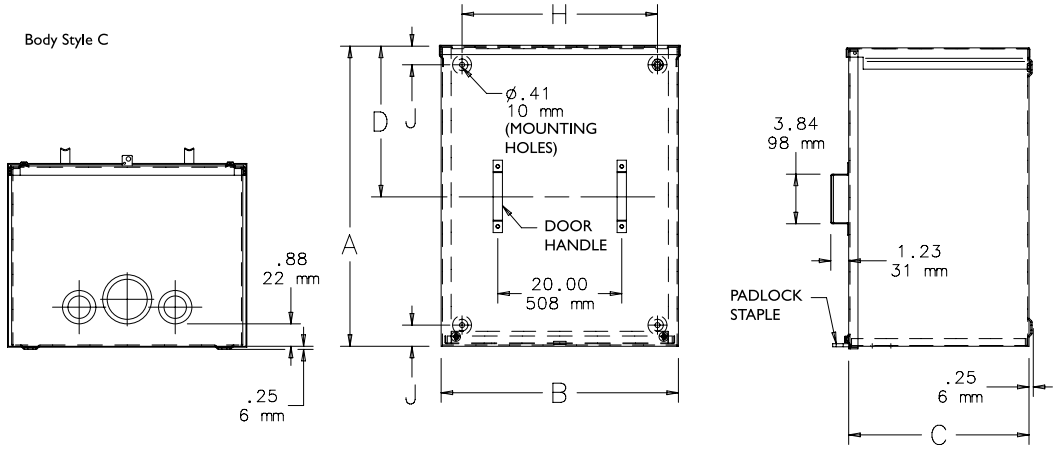
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PADLOCK
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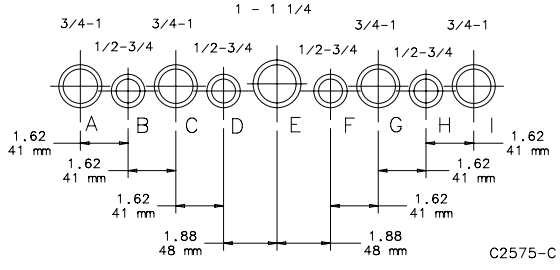
6 mm
C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HORIZONTAL-MOUNT, TYPE 3R

INDUSTRY STANDARDS

Maintains Type 3R rating when mounted horizontally. Maintains Type 1 rating when mounted vertically.

UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA/EEMAC Type 3R
IEC 60529, IP32

APPLICATION

Use this enclosure as a wiring, junction or pull box for outside horizontal mounting applications such as rooftops or pads. Vertical structure for mounting is not required.

FEATURES

- The screw cover is the drip shield providing 3/4-in. overhang on each side for outdoor protection
- No gasketing
- Screw locations on cover are embossed
- Enclosure body flange is formed outward
- Mounting holes on back for direct mounting through the back to strut or mounting surface; vertical structure for mounting not required
- Optional mounting brackets (included) provide a 1-in. clearance off surface for protection against pooling water

SPECIFICATIONS

- 16 or 12 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.

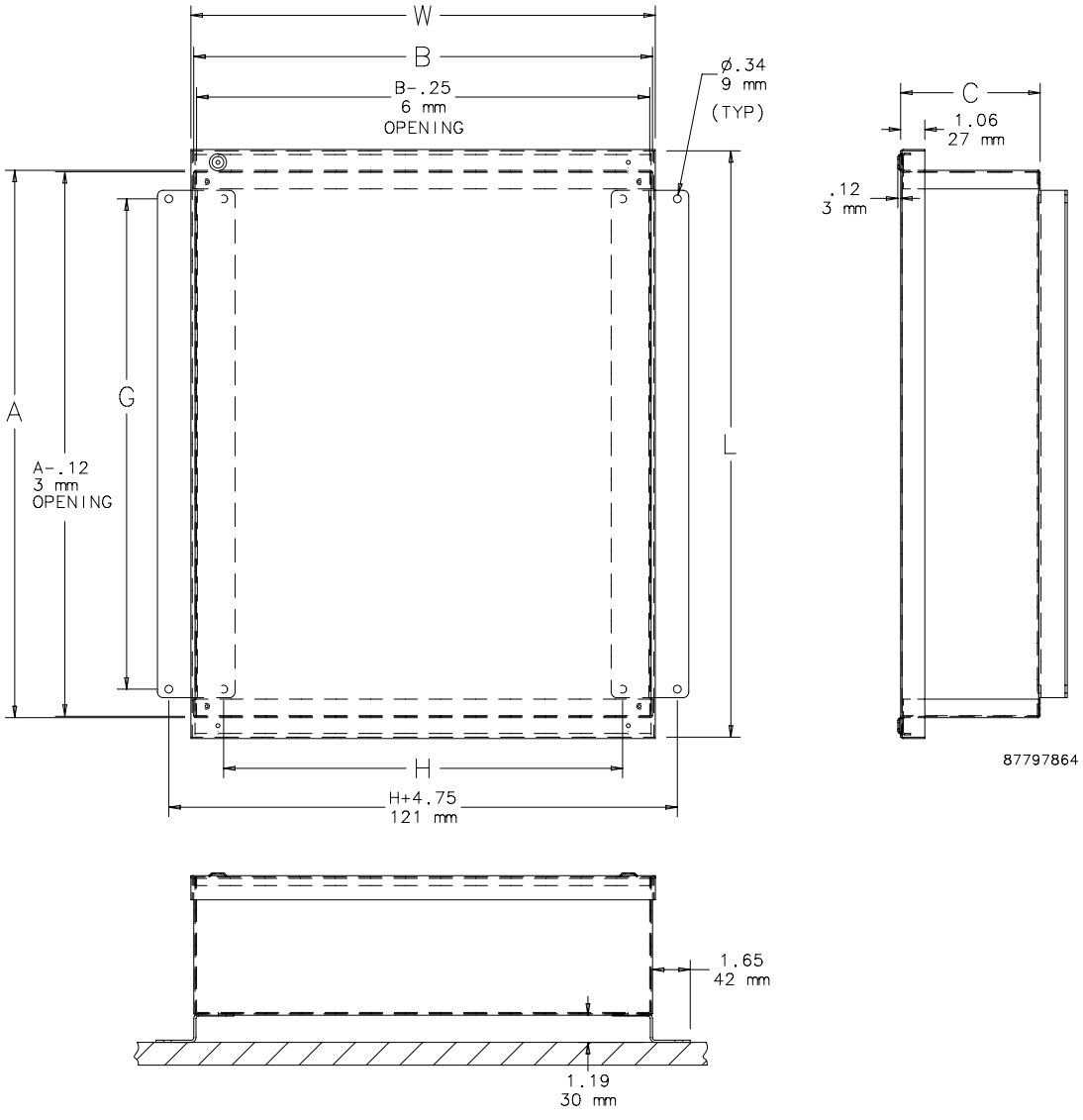
ACCESSORIES

Touch-Up Paint, page 1379

BULLETIN: A90RH

Standard Product

Catalog Number	AxBxC in./mm	G in./mm	H in./mm	L in./mm	W in./mm
A8R84HM	8.00 x 8.00 x 4.00 203 x 203 x 102	5.50 140	5.50 140	9.83 250	8.83 213
A10R104HM	10.00 x 10.00 x 4.00 254 x 254 x 102	5.50 140	7.50 191	11.83 300	10.38 264
A12R126HM	12.00 x 12.00 x 6.00 305 x 305 x 152	5.50 140	9.50 241	13.83 351	12.38 314
A24R206HM	24.00 x 20.00 x 6.00 610 x 508 x 152	21.50 546	17.50 445	25.83 656	20.38 518



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HINGE-COVER, SMALL, TYPE 3R

APPLICATION

These enclosures have a size range of 6 x 4 x 4-in. to 12 x 12 x 10-in. and meet basic functionality requirements for applications that require protection from rain, sleet, snow or dripping water.

FEATURES

- Drip-shield top and seam-free sides, front and back
- Plated steel hinge has stainless steel pin
- Weldnuts provided for mounting optional panels
- Provisions for padlocking on zinc-plated draw-pull catch
- Knockouts on bottom of enclosure
- No gasketing

SPECIFICATIONS

- 16 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized steel. Optional solid panels are white and optional perforated panels are gray.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Grounding Device, page 1386
Panels for Type 1 Enclosures and Small Type 3R Enclosures, page 1333
Touch-Up Paint, page 1379

BULLETIN: A3SM

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 3R File No. E27567

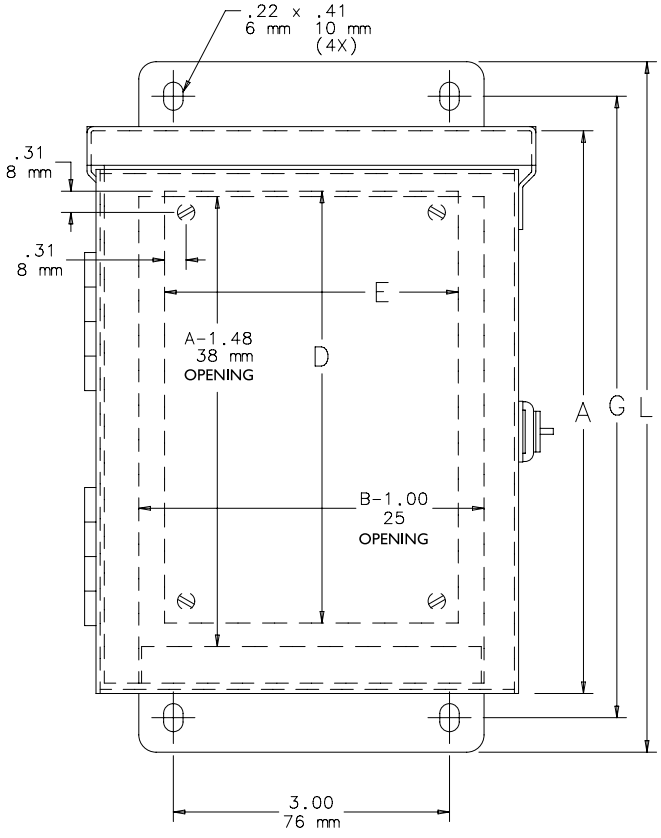
NEMA/EEMAC Type 3R
IEC 60529, IP32

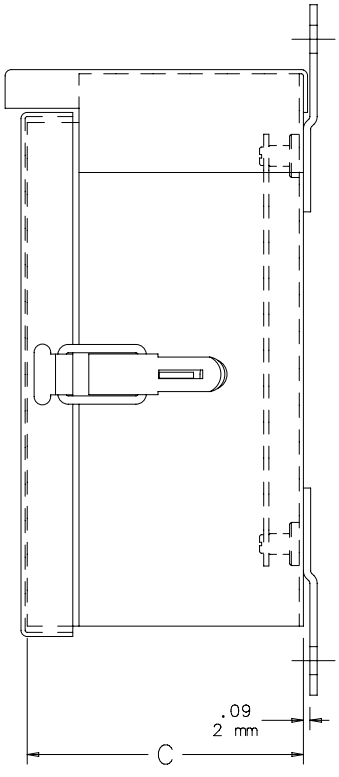
Standard Product

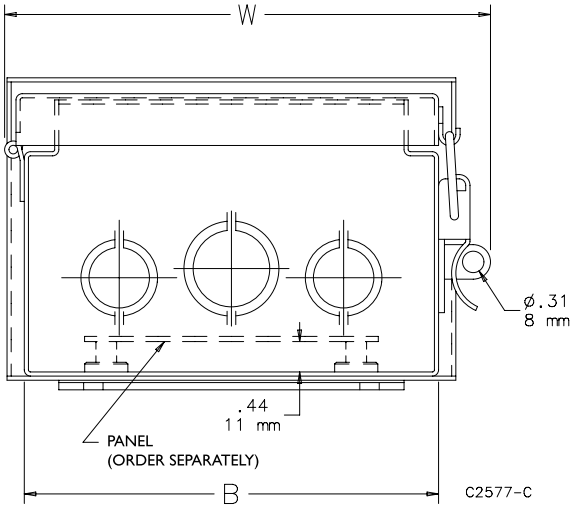
Catalog Number	AxBxC in./mm	Panel	Perforated Panel	Panel Size D x E in./mm	Mounting G in./mm	Overall L x W in./mm	Knockout Pattern
A6R44HCR	6.00 x 4.00 x 4.00 152 x 102 x 102	A6N4P	---	4.25 x 2.25 108 x 57	7.00 178	8.00 x 4.81 203 x 122	B-C-D
A6R64HCR	6.00 x 6.00 x 4.00 152 x 152 x 102	A6N6P	A6N6PP	4.25 x 4.25 108 x 108	7.00 178	8.00 x 6.81 203 x 173	B-C-D
A8R64HCR	8.00 x 6.00 x 4.00 203 x 152 x 102	A8N6P	A8N6PP	6.25 x 4.25 159 x 108	9.00 229	10.00 x 6.81 254 x 173	B-C-D
A8R86HCR	8.00 x 8.00 x 6.00 203 x 203 x 152	A8N8P	A8N8PP	6.25 x 6.25 159 x 159	9.00 229	10.00 x 8.81 254 x 224	F-G-H-I
A10R86HCR	10.00 x 8.00 x 6.00 254 x 203 x 152	A10N8P	A10N8PP	8.25 x 6.25 210 x 159	11.00 279	12.00 x 8.81 305 x 224	F-G-H-I
A12R106HCR	12.00 x 10.00 x 6.00 305 x 254 x 152	A12N10P	A12N10PP	10.25 x 8.25 260 x 210	13.00 330	14.00 x 10.81 356 x 275	C-D-E-F-G
A12R126HCR	12.00 x 12.00 x 6.00 305 x 305 x 152	A12N12P	A12N12PP	10.25 x 10.25 260 x 260	13.00 330	14.00 x 12.81 356 x 325	C-D-E-F-G
A12R1210HCR	12.00 x 12.00 x 10.00 305 x 305 x 254	A12N12P	A12N12PP	10.25 x 10.25 260 x 260	13.00 330	14.00 x 12.81 356 x 325	C-D-E-F-G

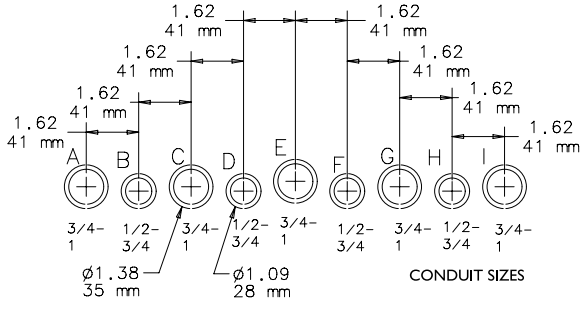
Purchase panels separately.

Purchase perforated panels separately.









Knockout Pattern
(from outside of box)

NOTE: Refer to table for applicable knockout pattern.

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HINGE-COVER, MEDIUM, TYPE 3R

APPLICATION

These enclosures have a size range of 16 x 12 x 6-in. to 48 x 36 x 16-in. and meet basic functionality requirements for applications that require protection from rain, sleet, snow or dripping water.

FEATURES

- Drip shield top and seam-free sides, front, and back protect from rain, snow, or sleet
- 16 gauge plated steel continuous hinge has stainless steel pin
- Cover fastened securely with captive plated steel screws
- Collar studs provided for mounting optional panels
- Hasp and staple provided for padlocking
- No gasketing or knockouts

SPECIFICATIONS

- 16 or 14 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized steel. Optional solid panels are white.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Grounding Device, page 1386
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Rack Mounting Angles - U Style (Type RA), page 1414
Terminal Block Kit Assembly for Junction Boxes, page 1380
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A3M

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 3R File No. E27567

NEMA/EEMAC Type 3R
IEC 60529, IP32

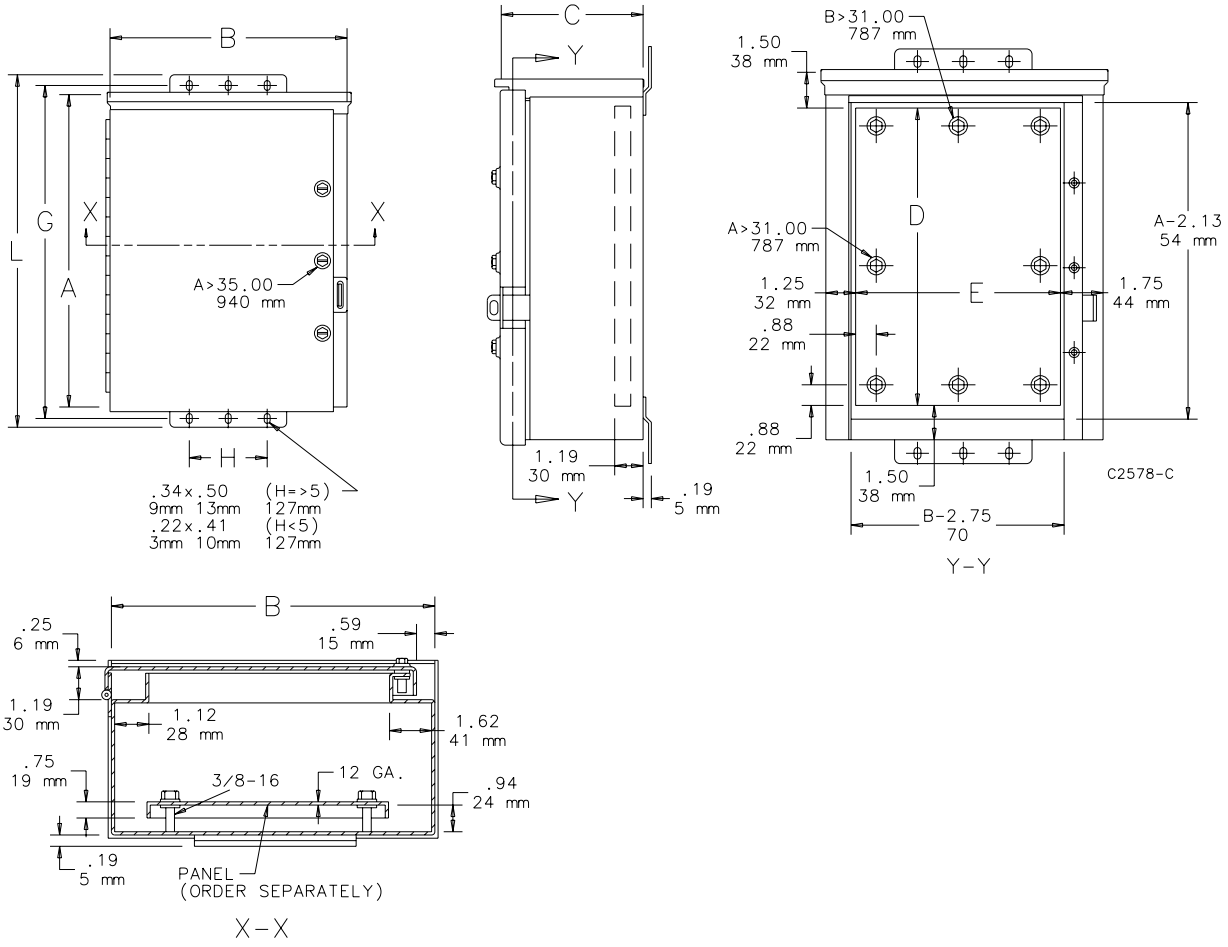
Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Panel	Perforated Panel	Panel Size D x E (in.)	Panel Size D x E (mm)	Mounting G x H (in.)	Mounting G x H (mm)	Overall L (in.)	Overall L (mm)
A16R126HCR	16.00 x 12.00 x 6.00	406 x 305 x 152	A16P12	A16P12PP	13.00 x 9.00	330 x 229	17.00 x 3.00	432 x 76	18.00	457
A16R166HCR	16.00 x 16.00 x 6.00	406 x 406 x 152	A16P16	A16P16PP	13.00 x 13.00	330 x 330	17.00 x 13.00	432 x 330	18.00	457
A18R186HCR	18.00 x 18.00 x 6.00	457 x 457 x 152	A18P18	A18P18PP	15.00 x 15.00	381 x 381	19.00 x 13.00	483 x 330	20.00	508
A20R166HCR	20.00 x 16.00 x 6.00	508 x 406 x 152	A20P16	A20P16PP	17.00 x 13.00	432 x 330	21.00 x 13.00	533 x 330	22.00	559
A20R208HCR	20.00 x 20.00 x 8.00	508 x 508 x 203	A20P20	A20P20PP	17.00 x 17.00	432 x 432	21.00 x 13.00	533 x 330	22.00	559
A24R208HCR	24.00 x 20.00 x 8.00	610 x 508 x 203	A24P20	A24P20PP	21.00 x 17.00	533 x 432	25.00 x 13.00	635 x 330	26.00	660
A24R248HCR	24.00 x 24.00 x 8.00	610 x 610 x 203	A24P24	A24P24PP	21.00 x 21.00	533 x 533	25.00 x 13.00	635 x 330	26.00	660
A30R248HCR	30.00 x 24.00 x 8.00	762 x 610 x 203	A30P24	A30P24PP	27.00 x 21.00	686 x 533	31.00 x 13.00	787 x 330	32.00	813
A18R1810HCR	18.00 x 18.00 x 10.00	457 x 457 x 254	A18P18	A18P18PP	15.00 x 15.00	381 x 381	19.00 x 13.00	483 x 330	20.00	508
A30R308HCR	30.00 x 30.00 x 8.00	762 x 762 x 203	A30P30	A30P30PP	27.00 x 27.00	686 x 686	31.00 x 27.00	787 x 686	32.00	813
A24R2410HCR	24.00 x 24.00 x 10.00	610 x 610 x 254	A24P24	A24P24PP	21.00 x 21.00	533 x 533	25.00 x 13.00	635 x 330	26.00	660
A30R2410HCR	30.00 x 24.00 x 10.00	762 x 610 x 254	A30P24	A30P24PP	27.00 x 21.00	686 x 533	31.00 x 13.00	787 x 330	32.00	813
A36R3610HCR	36.00 x 36.00 x 10.00	914 x 914 x 254	A36P36	A36P36PP	33.00 x 33.00	838 x 838	37.00 x 30.00	940 x 762	38.00	965
A30R3012HCR	30.00 x 30.00 x 12.00	762 x 762 x 305	A30P30	A30P30PP	27.00 x 27.00	686 x 686	31.00 x 27.00	787 x 686	32.00	813
A36R2412HCR	36.00 x 24.00 x 12.00	914 x 610 x 305	A36P24	A36P24PP	33.00 x 21.00	838 x 533	37.00 x 13.00	940 x 330	38.00	965
A36R3012HCR	36.00 x 30.00 x 12.00	914 x 762 x 305	A36P30	A36P30PP	33.00 x 27.00	838 x 686	37.00 x 27.00	940 x 686	38.00	965
A42R3012HCR	42.00 x 30.00 x 12.00	1067 x 762 x 305	A42P30	—	39.00 x 27.00	991 x 686	43.00 x 27.00	1092 x 686	44.00	1118
A36R3612HCR	36.00 x 36.00 x 12.00	914 x 914 x 305	A36P36	A36P36PP	33.00 x 33.00	838 x 838	37.00 x 27.00	940 x 686	38.00	965
A42R3612HCR	42.00 x 36.00 x 12.00	1067 x 914 x 305	A42P36	—	39.00 x 33.00	991 x 838	43.00 x 27.00	1092 x 686	44.00	1118
A48R3612HCR	48.00 x 36.00 x 12.00	1219 x 914 x 305	A48P36	—	45.00 x 33.00	1143 x 838	49.00 x 27.00	1245 x 686	50.00	1270
A60R3612HCR	60.00 x 36.00 x 12.00	1524 x 914 x 305	A60P36	—	57.00 x 33.00	1448 x 838	61.00 x 27.00	1549 x 686	62.00	1575
A30R3016HCR	30.00 x 30.00 x 16.00	762 x 762 x 406	A30P30	A30P30PP	27.00 x 27.00	686 x 686	31.00 x 27.00	787 x 686	32.00	813
A48R3616HCR	48.00 x 36.00 x 16.00	1219 x 914 x 406	A48P36	—	45.00 X 33.00	1143 X 838	49.00 X 27.00	1245 X 686	50.00	1270

Purchase panels separately. Optional aluminum panels are available for most sizes.

Purchase perforated panels separately.

Flanged on all four sides.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9mm 13mm 127mm
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3mm 10mm 127mm
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12 GA.
.94
24 mm
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5 mm
PANEL
(ORDER SEPARATELY)
X-X

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HINGE-COVER LIFT-OFF, TYPE 3R

APPLICATION

Featuring a removable cover for easy mounting and access, these enclosures protect components in applications subject to rain, sleet, snow or dripping water.

FEATURES

- Drip-shield top and seam-free sides, front and back
- Galvanized steel lift-off hinges with stainless steel pins
- Provisions for padlocking on each draw pull catch
- Embossed mounting holes on back of enclosure
- Gasketing along top of door
- No knockouts

SPECIFICATIONS

- 16 or 14 gauge galvanized steel
- 16 gauge cover fastened securely with draw pull catch

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized steel. Optional panels are white.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Electric Heaters, page 1236
Grounding Device, page 1386
Mounting Bracket Kit, page 793
Panel Mounting Kit, page 793
Panel Support Kit, page 1345
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332
Terminal Block Kit Assembly for Junction Boxes, page 1380
Touch-Up Paint, page 1379
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

BULLETIN: A3LO

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27567
cUL Listed per CSA C22.2 No 94; Type 3R File No. E27567

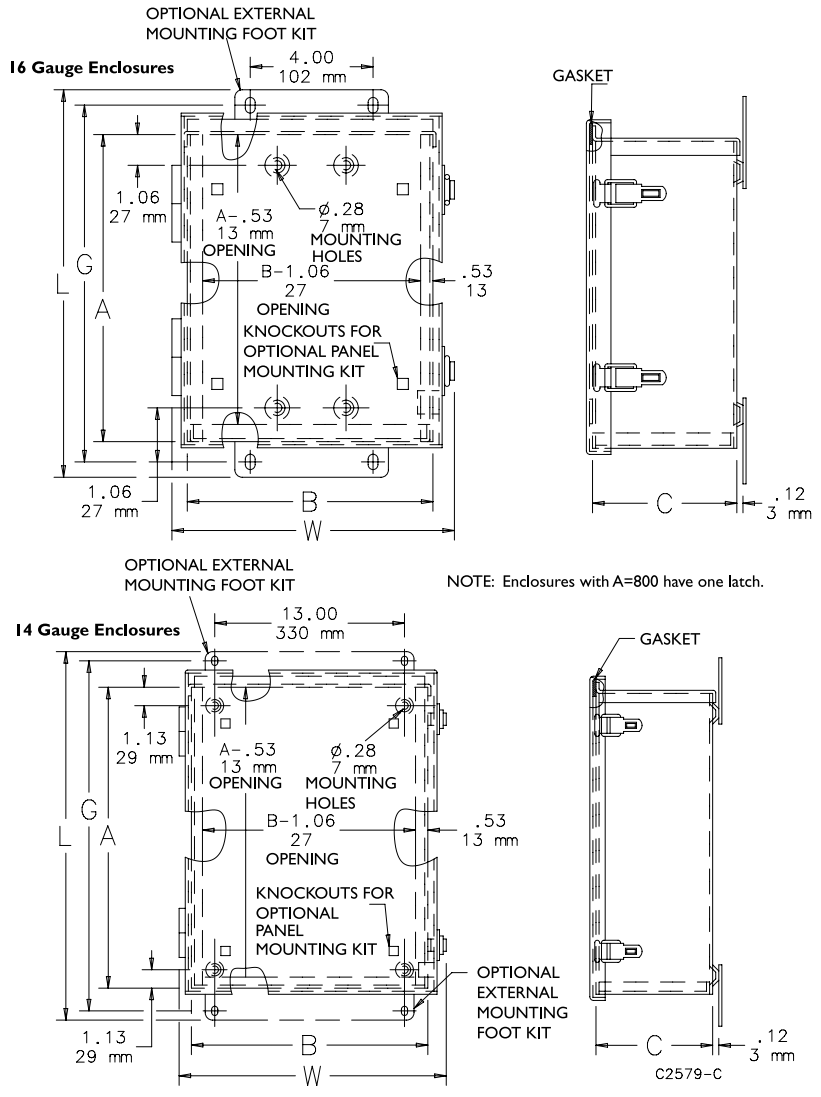
NEMA/EEMAC Type 3R
CSA, File 42184: Type 3R
IEC 60529, IP32

Standard Product

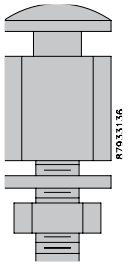
Catalog Number	AxBxC in./mm	Body Guage	Panel[a]	Panel Size D x E in./mm	Mounting G in./mm	Overall L x W in./mm	Panel Mounting Kit[b]	Mounting Bracket Kit[b]	Bracket Gauge	Overall Width of Bracket in./mm	Hole Spacing For Bracket in./mm
A8R64HCLO	8.00 x 6.00 x 4.00 203 x 152 x 102	16	A6P6	4.88 x 4.88 124 x 124	9.12 232	10.12 x 7.25 257 x 184	APMK3RLO16	AMFK3RLO16	14	5.00 127	4.00 102
A8R86HCLO	8.00 x 8.00 x 6.00 203 x 203 x 152	16	A8P6	6.75 x 4.88 171 x 124	9.12 232	10.12 x 9.25 257 x 235	APMK3RLO16	AMFK3RLO16	14	5.00 127	4.00 102
A10R86HCLO	10.00 x 8.00 x 6.00 254 x 203 x 152	16	A8P8	6.75 x 6.88 171 x 175	11.12 282	12.12 x 9.25 308 x 235	APMK3RLO16	APMK3RLO16	14	5.00 127	4.00 102
A12R106HCLO	12.00 x 10.00 x 6.00 305 x 254 x 152	16	A10P10	8.75 x 8.88 222 x 226	13.12 333	14.12 x 11.25 359 x 286	APMK3RLO16	AMFK3RLO16	14	5.00 127	4.00 102
A12R126HCLO	12.00 x 12.00 x 6.00 305 x 305 x 152	16	A12P10	10.75 x 8.88 273 x 226	13.12 333	14.12 x 13.25 359 x 337	APMK3RLO16	AMFK3RLO16	14	5.00 127	4.00 102
A16R126HCLO	16.00 x 12.00 x 6.00 406 x 305 x 152	16	A14P12	12.75 x 10.88 324 x 276	17.12 435	18.12 x 13.25 460 x 337	APMK3RLO16	AMFK3RLO16	14	5.00 127	4.00 102
A16R166HCLO	16.00 x 16.00 x 6.00 406 x 406 x 152	16	A16P16	13.00 x 13.00 330 x 330	17.31 440	18.31 x 17.25 465 x 438	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330
A20R166HCLO	20.00 x 16.00 x 6.00 508 x 406 x 152	16	A20P16	17.00 x 13.00 432 x 330	21.31 541	22.31 x 17.25 567 x 438	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330
A20R208HCLO	20.00 x 20.00 x 8.00 508 x 508 x 203	14	A20P20	17.00 x 17.00 432 x 432	21.31 541	22.31 x 21.25 567 x 540	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330
A24R208HCLO	24.00 x 20.00 x 8.00 610 x 508 x 203	14	A24P20	21.00 x 17.00 533 x 432	25.31 643	26.31 x 21.25 668 x 540	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330
A24R248HCLO	24.00 x 24.00 x 8.00 610 x 610 x 203	14	A24P24	21.00 x 21.00 533 x 533	25.31 643	26.31 x 25.25 668 x 641	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330
A30R248HCLO	30.00 x 24.00 x 8.00 762 x 610 x 203	14	A30P24	27.00 x 21.00 686 x 533	31.31 795	32.31 x 25.25 821 x 641	APMK3RLO14	AMFK3RLO14	12	14.00 356	13.00 330

[a] Purchase panels separately.

[b] Panel Mounting Kit and Mounting Bracket Kit must be ordered separately. (A Panel Mounting Kit must be ordered to install panel.)



PANEL MOUNTING KIT

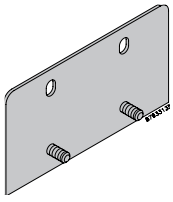


A panel mounting kit (order separately) is required in order to install a panel.

BULLETIN: A3LO

Catalog Number	Description
APMK3RL014	Required to install panel
APMK3RL016	Required to install panel

MOUNTING BRACKET KIT



Optional external mounting bracket kit available for installing enclosure (order separately).

BULLETIN: A3LO

Catalog Number	Foot Gauge	Overall Bracket Width in./mm	Hole Spacing for Bracket in./mm
AMFK3RL014	12	14.00 356	13.00 330
AMFK3RL016	14	5.00 127	4.00 102

WEATHERPRO OUTDOOR PAD MOUNT, TYPE 3R

INDUSTRY STANDARDS

UL 508A Listed; Type 3R; File No. E61997
cUL/CSA C22.2 No. 94 Listed; Type 3R; File No. E61997

NEMA/EEMAC Type 3R
IEC 60529, IP32

APPLICATION

WEATHERPRO Outdoor Pad Mount Enclosures protect controls, drives, power distribution components or contactors in outdoor commercial or industrial power distribution and control applications. The overlapping two-door models with no centerpost allow full-width access to enclosure interior.

FEATURES

- 3-point latching system with heavy duty handle
- Padlock provision in handle
- Open bottom with pre-punched mounting hole flange
- Drip edge overhang on top
- Louvered overhang with a closure plate
- Studs included for mounting optional panels on threaded bolts
- Welded body construction
- Sturdy 7 gauge lifting tabs
- Overlapping doors with no centerpost on two-door models
- Bonding provision on each door
- Bolted hinges on doors

SPECIFICATIONS

- 14 gauge galvanized steel

FINISH

RAL 7035 light-gray polyester powder paint inside and outside. Optional panels are white.

ACCESSORIES

19-in. Hinged Wall-Mount Panel, page 797
19-in. Fixed Wall-Mount Rack, page 798
Insect Screens, page 798
Fan Shroud Kits, Type 3R, page 799

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

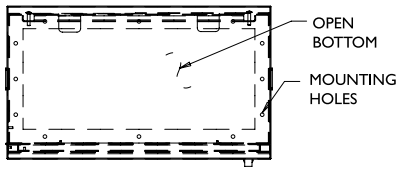
BULLETIN: A3PM

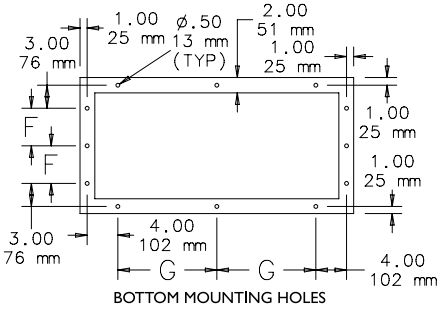
Standard Product **WEATHERPRO Outdoor Pad-Mount Type 3R Single Door Enclosures**

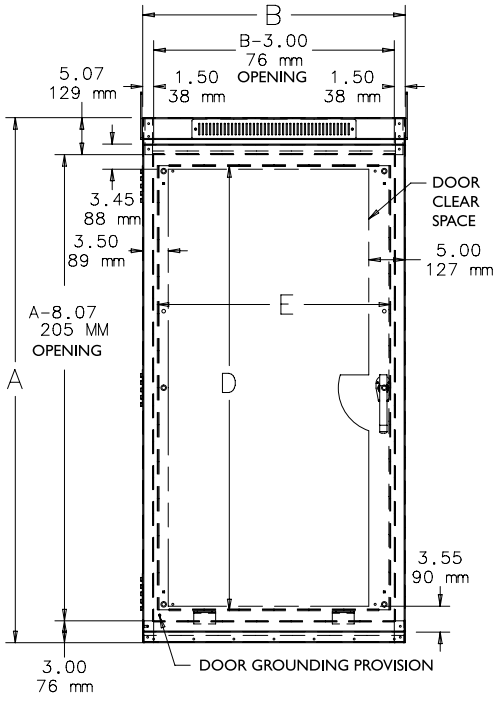
Catalog Number	AxBxC in./mm	Panel	Panel Size D x E in./mm	Mounting Dimensions F x G in./mm
A60R2518FSLP	60.00 x 25.00 x 18.00 1524 x 635 x 457	A49P21N	49.16 x 21.50 1249 x 546	4.90 x 7.40 124 x 188
A60R2524FSLP	60.00 x 25.00 x 24.00 1524 x 635 x 610	A49P21N	49.16 x 21.50 1249 x 546	7.90 x 7.40 201 x 188
A72R2518FSLP	72.00 x 25.00 x 18.00 1829 x 635 x 457	A61P21N	61.16 x 21.50 1553 x 546	4.90 x 7.40 124 x 188
A60R3618FSLP	60.00 x 36.00 x 18.00 1524 x 914 x 457	A49P32N	49.16 x 32.00 1249 x 813	4.90 x 12.90 124 x 328
A72R3618FSLP	72.00 x 36.00 x 18.00 1829 x 914 x 457	A61P32N	61.16 x 32.00 1553 x 813	4.90 x 12.90 124 x 328
A72R3624FSLP	72.00 x 36.00 x 24.00 1829 x 914 x 610	A61P32N	61.16 x 32.00 1553 x 813	7.90 x 12.90 201 x 328

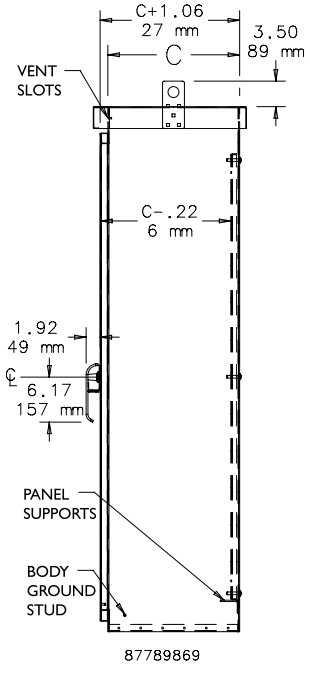
Purchase panels separately.

Single Door Enclosures









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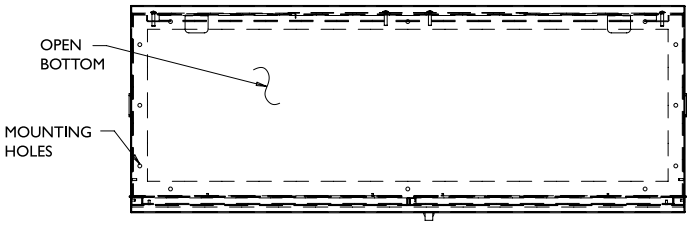
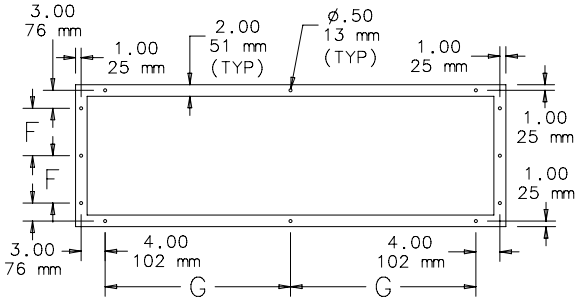
Standard Product **WEATHERPRO Outdoor Pad-Mount Type 3R Two-Door Enclosures**

Catalog Number	AxBxC in./mm	Panel	Panel Size D x E in./mm	Mounting Dimensions F x G in./mm
A60R5218FSLP	60.00 x 52.00 x 18.00 1524 x 1321 x 457	A49P48N	49.16 x 48.00 1249 x 1219	4.90 x 20.90 124 x 531
A60R5224FSLP	60.00 x 52.00 x 24.00 1524 x 1321 x 610	A49P48N	49.16 x 48.00 1249 x 1219	7.90 x 20.90 201 x 531
A60R7224FSLP	60.00 x 72.00 x 24.00 1524 x 1829 x 610	A49P68N	49.16 x 68.00 1249 x 1727	7.90 x 30.90 201 x 785
A72R7218FSLP	72.00 x 72.00 x 18.00 1829 x 1829 x 457	A61P68N	61.16 x 68.00 1553 x 1727	4.90 x 30.90 124 x 785
A72R7224FSLP	72.00 x 72.00 x 24.00 1829 x 1829 x 610	A61P68N	61.16 x 68.00 1553 x 1727	7.90 x 30.90 201 x 785

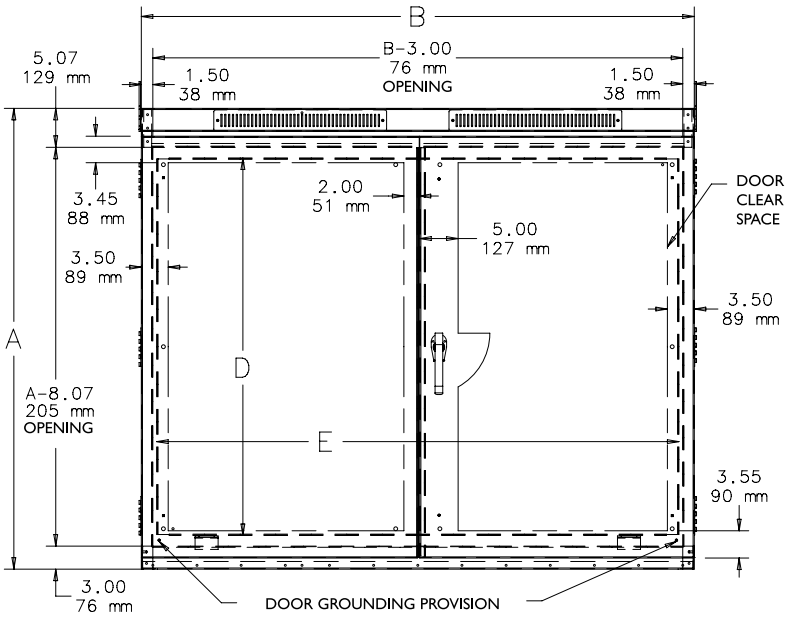
Purchase panels separately.

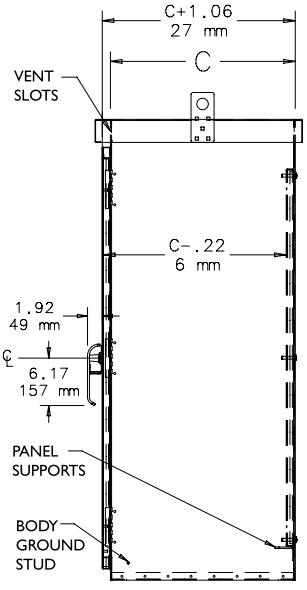
Two-Door Enclosures





BOTTOM MOUNTING HOLES





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19-IN. HINGED WALL-MOUNT PANEL

INDUSTRY STANDARDS

UL 2416 Listed; File No. E230874
cUL Listed per CSA C22.2 No. 182.4; File No. E230874

EIA 310-D

APPLICATION

The 19-in. Hinged Panel provides a solution for smaller network equipment, punch-downs and patch panels in areas where floor space is at a premium. Easy access facilitates component installation and future expansion without disturbing existing equipment or cabling. Can be mounted with hinges on left or right side.

FEATURES

- Open design offers unrestricted airflow
- Large cable exit holes on back surface
- Keyhole mounting slots on 16-in. centers accommodate up to 3/8-in. dia. mounting fasteners (not supplied)
- Heavy duty hinges are welded to frame
- Hinge provided for every two rack unit spacing
- One rack unit model has half-size hinge
- Provides access to rear of equipment
- 12-24 rack mounting screws (package of 20) included with assembly
- Wall mounting hardware not included

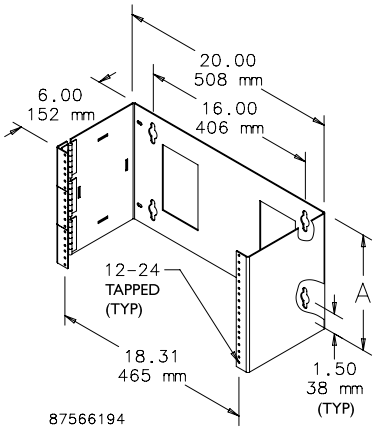
SPECIFICATIONS

- Made of 12 gauge steel
- EIA universal 5/8, 5/8, 1/2 in. spaced 12-24 tapped holes. EIA spacing provides 1.75 in. per rack unit.

FINISH

Finish is RAL 9005 black low-gloss polyester powder paint

BULLETIN: DOFRW

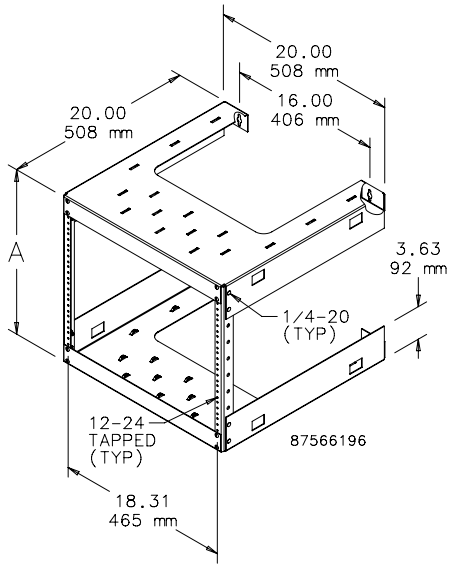


Standard Product

Catalog Number	A (in.)	A (mm)	Load Rating (lb.)	Load Rating (kg)	Rack Units
E19HPM1U	1.75	44	25	11.3	1
E19HPM2U	3.50	89	50	22.7	2
E19HPM4U	8.00	203	100	45.4	4
E19HPM6U	10.50	267	150	68.0	6
E19HPM8U	14.00	356	200	90.7	8

19-IN. FIXED WALL-MOUNT RACK

Catalog Number	A (in.)	A (mm)	Load Rating (lb.)	Load Rating (kg)	Rack Units
E19FWM12U20	23.00	584	150	68.0	12
E19FWM20U20	37.00	940	150	68.0	20
E19FWM25U20	45.75	1162	150	68.0	25
E19FWM32U20	58.00	1473	150	68.0	32



INDUSTRY STANDARDS

UL 2416 Listed; File No. E230874
cUL Listed per CSA C22.2 No. 182.4; File No. E230874

EIA 310-D

APPLICATION

Economical solution for banks of small networking equipment. Integral VELCRO® cable tiedown slots facilitate cable routing. Made of 16 gauge steel, finished with RAL 9005 low gloss black polyester powder paint. Shipped in four easy-to-assemble sections.

VELCRO is a trademark of Velcro Industries B.V.

BULLETIN: DOFRW

INSECT SCREENS

Fastens over ventilation slot with two screws provided. Requires one for single-door enclosure and two for two-door enclosure. Purchase insect screens separately.

BULLETIN: A3PM

Catalog Number	Description	Requires
A3PMIS	Insect Screen	One for one-door enclosure and two for two-door enclosure

FAN SHROUD KITS, TYPE 3R

INDUSTRY STANDARDS

Maintains UL/cUL Type 3R rating when properly installed on UL/cUL Type 3R enclosure.

UL 508A Listed; Type 3R; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E61997

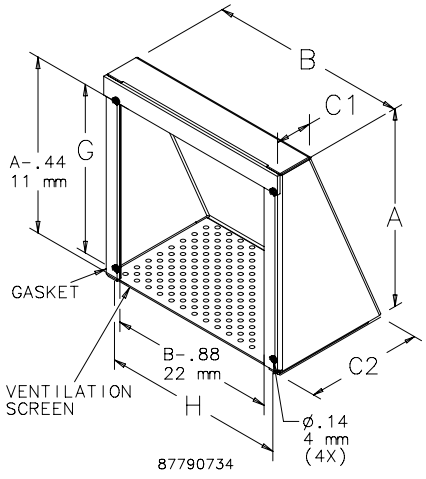
NEMA/EEMAC Type 3R
IEC 60529, IP22

APPLICATION

Fan shroud kits are available for outdoor enclosure applications requiring Type 3R ventilation protection from falling rain, sleet and snow.

BULLETIN: D85

Catalog Number	Material	Height x Width (in.)	Height x Width (mm)
T4S3R	Steel	6.00 x 6.00	152 x 152
T6S3R	Steel	8.00 x 8.00	203 x 203
T10S3R	Steel	12.00 x 12.00	305 x 305
T4S3RSS	Stainless Steel	6.00 x 6.00	152 x 152
T6S3RSS	Stainless Steel	8.00 x 8.00	203 x 203
T10S3RSS	Stainless Steel	12.00 x 12.00	305 x 305



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WEATHERFLO WITH FAN, TYPE 3R

INDUSTRY STANDARDS

UL 508A Listed; Type 3R; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 3R; File Number E61997

NEMA/EEMAC Type 3R
IEC 60529, IP32

APPLICATION

WEATHERFLO Enclosures feature a forced-air ventilation system for cooling drives or other high-heat producing equipment in outdoor applications.

FEATURES

- White polyester powder finish with low solar absorption
- Integrated solar shield top and intake cover
- Gasket and filter
- Adjustable thermostat (70-140 F)
- Active cooling ventilation system with factory-installed fan and filter (115 VAC)
- Terminal power connection for fan
- Easily accessible and washable metal filter
- Top front hood exhaust and door
- Lift-off hinged door
- Quarter-turn latch
- External mounting brackets
- Collar studs provided to mount the optional panel
- Grounding provision on door and body
- Gasketed door

SPECIFICATIONS

- 16 and 14 gauge galvanized steel
- Largest two sizes constructed of aluminum

FINISH

RAL 9003 white polyester powder texturized finish inside and out.

ACCESSORIES

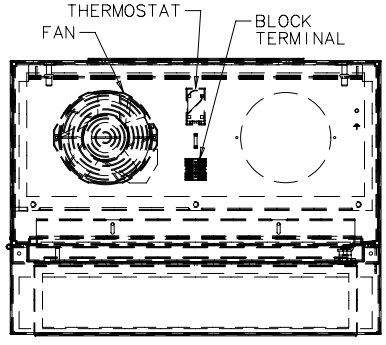
Compact Axial Fans, page 1202
Electric Heaters, page 1236
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Junction Box and Wall-Mount Enclosure Swing-Out Panel Kit, page 1332

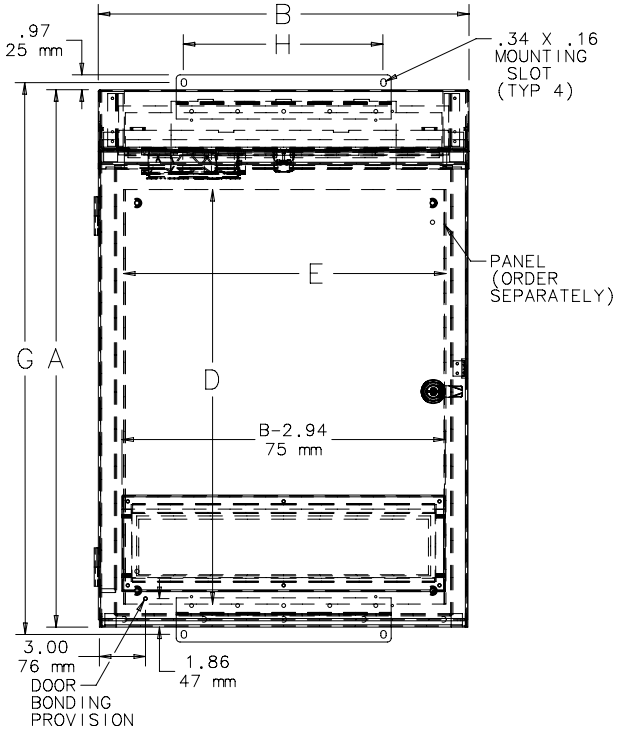
BULLETIN: A3RD

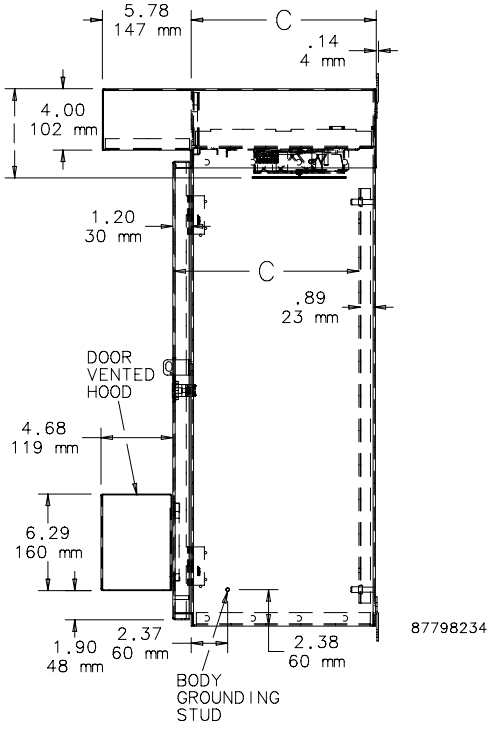
Standard Product

Catalog Number	AxBxC in./mm	Drive Horsepower (hp)	Panel	Panel Size D x E in./mm	Mounting Holes G x H in./mm	I in./mm
WF3LP	29.00 x 24.00 x 12.00 737 x 610 x 305	3	A24P24	21.00 x 21.00 533 x 533	29.94 x 13.00 760 x 330	5.59 142
WF10LP	35.00 x 24.00 x 12.00 889 x 610 x 305	10	A30P24	27.00 x 21.00 686 x 533	35.94 x 13.00 913 x 330	5.81 148
WF25LP	41.00 x 24.00 x 12.00 1041 x 610 x 305	25	A36P24	33.00 x 21.00 838 x 533	41.94 x 13.00 1065 x 330	5.81 148
WF40LP	47.00 x 24.00 x 14.00 1194 x 610 x 356	40	A42P24	39.00 x 21.00 991 x 533	47.94 x 13.00 1218 x 330	5.81 148
WF75LP	56.00 x 36.00 x 16.00 1422 x 914 x 406	75	A48P36	45.00 x 33.00 1143 x 838	55.94 x 27.00 1421 x 686	7.43 189
WF100LP	67.00 x 36.00 x 16.00 1702 x 914 x 406	100	A60P36	57.00 x 33.00 1448 x 838	67.94 x 27.00 1726 x 686	7.43 189

Purchase panels separately.







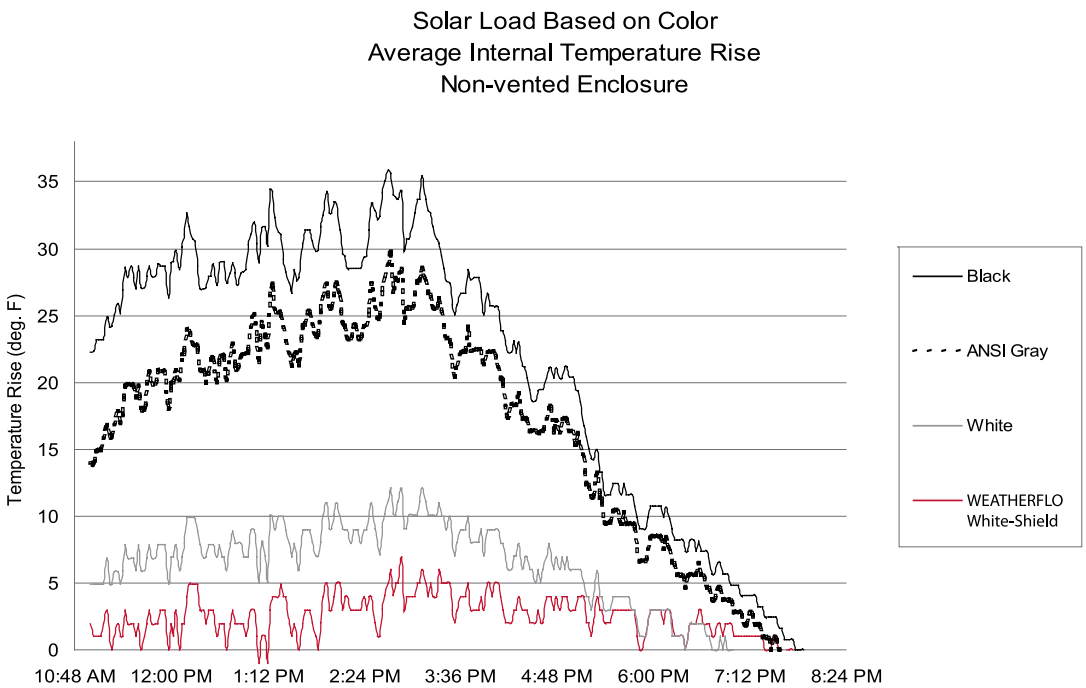
TECHNICAL INFORMATION

This information is for guidance only; user is responsible for load values to evaluate the system.

Catalog Number	Drive Horsepower (hp)	Fan	Fan Size in./mm	Fan VAC	Fan Amps (50/60 Hz)	System CFM	Replacement Filter
WF3LP	3	A4AXFN	4	115	.26/.21	75	WFF1
WF10LP	10	A6AXFN	6	115	.45/.36	160	WFF1
WF25LP	25	A6AXFN	6	115	.45/.36	160	WFF1
WF40LP	40	A6AXFN	6 (2x)	115	.90/.72	200	WFF1
WF75LP	75	A10EFN	10	115	.58/.70	400	WFF2
WF100LP	100	A10EFN	10 (2x)	115	1.16/1.40	500	WFF2

SOLAR CONSIDERATION

The WEATHERFLO Enclosure's glossy white finish and solar shield top shroud minimize the heat load caused by the sun. If the allowable temperature rise is greater than 5 F, the solar load can be neglected because the transmitted load of the illuminated sides would be equal to the energy dissipated on the sides not exposed to the sun.



CRITICAL PARAMETERS (UPPER TEMPERATURE LIMITS)

Enclosure Heat Load Calculations

Drive heat:
W_D = [(HP x 745.7 Watts/HP) / E_M] x (1-E_D) [Watts]

Total heat:
Estimate an additional 25%[a] for wire connections and other components.
W_T = W_D x 1.25[a] [Watts]

Required airflow:
CFM = (W_T x 3.16) / (T_{int} - T_{amb}) [ft.^{3} / min.]

[a]This is an estimated factor. Further investigation is necessary to obtain actual total heat dissipated in enclosure.

Variables

Variable Descriptions	Variables	Typical Values
Maximum ambient temperature	T_{amb}	104 F
Maximum internal temperature	T_{int}	122 F
Typical temperature rise	(T_{int} - T_{amb})	15 F
Full-load drive power	HP	—
Motor efficiency[b]	E_M	.80-.96
Drive efficiency[b]	E_D	.96-.98
Drive heat loss	W_D	—
Total heat loss	W_T	—
Required airflow	CFM	—

[b]Use full-load efficiency. Motor and drive efficiency will vary based on HP and voltage.

Sample Values

Drive HorsePower (hp)	Typical Full Load Rating - Motor Efficiency	Typical Full Load Rating - Drive Efficiency	Drive Heat Loss W_D (W)	Additional Heat Loss[a] (W)	Total Heat Loss W_T (W)	Airflow when t_{int} - T_{amb} = 15 F (CFM)
3	.86	.97	78	20	98	21
10	.90	.97	249	62	311	65
25	.91	.97	615	154	768	162
40	.92	.98	648	162	811	171
75	.93	.98	1203	301	1503	317
100	.94	.98	1587	397	1983	418

[a]Additional Heat Loss - This is an estimated factor. Further investigation is necessary to obtain actual total heat dissipated in enclosure.

CRITICAL PARAMETERS (LOWER TEMPERATURE LIMITS)

Determine the ambient operating temperature range of the drive. A typical operating range is from 14 to 122 F (-10 to 50 C). For outdoor assemblies in northern climates, the lower operating temperature may be below the lower temperature limit. To ensure that cold starts are not below the low limit temperature, the addition of a heater is recommended.

Hoffman has 100-, 200-, 400-, and 800-W heaters available with adjustable thermostats from 0-100 F. For additional information, see the Thermal Management chapter.

WEATHERFLO Catalog Number	Recommended Heater (115 VAC)	Recommended Heater (230 VAC)	Heater Size (W)	Estimated Temperature Rise Above Ambient (°F)
WF3LP	DAH2001A	DAH2002A	200	55
WF10LP	DAH2001A	DAH2002A	200	46
WF25LP	DAH2001A	DAH2002A	200	40
WF40LP	DAH2001A	DAH2002A	200	33
WF75LP	DAH4001B	DAH4002B	400	41
WF100LP	DAH4001B	DAH4002B	400	37

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WEATHERFLO HD ENCLOSURES

APPLICATION

WEATHERFLO HD Enclosures are designed to protect and cool 100-500 HP variable frequency drives. These enclosures provide an integrated cooling solution for your VFD application needs.

FEATURES

- Optional impeller packages provide 840 actual CFM per impeller
- Easy-to-install back panel with flexible installation methods
- Painted white polyester powder finish with low solar absorption
- Selectable bases and tops, designed to meet your specific needs
- Gangable; enclosures can be joined to one another
- Easy-to-change filter (not included)

SPECIFICATIONS

- Frames, bases and gland plates constructed of .125-in. aluminum
- Tops and fan housing constructed of .080-in. aluminum
- Sides and standard rear cover constructed of .100-in. aluminum
- Gasketed door, top and base
- Panels and heavy-duty rear cover constructed of 12 gauge mild steel
- Three-point latches operated by patented padlocking handle
- Grounding provisions on door and body

FINISH

RAL 9003 white polyester powder paint finish inside and outside, including panels, tops, covers and bases.

ACCESSORIES

INTERSAFE Data Interface Ports, Type 4/4X/12, page 1419
PANELITE Enclosure Lights, page 1393
Thermoplastic Data Pocket, page 1353
H2OMIT Thermoelectric Dehumidifier, page 1324
Steel, Stainless Steel and Non-Metallic Window Kits, page 1346

ORDERING

For your specific needs please identify and order each individual component.

1. Select frame
2. Select top, dependent on cooling solution
3. Select base, dependent on cooling solution
4. Select panel
5. Select rear cover, HD rear cover designed for applications when the drive is mounted on rear cover instead of the panel
6. Select number of Impellers (if needed), room for two impellers per door

Please see Product Selection Matrix on page 4.

INDUSTRY STANDARDS

UL 508A Listed; Type 3R; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 3R; File Number E61997

NEMA/EEMAC Type 3R
IEC 60529, IP22

MODIFICATION AND CUSTOMIZATION

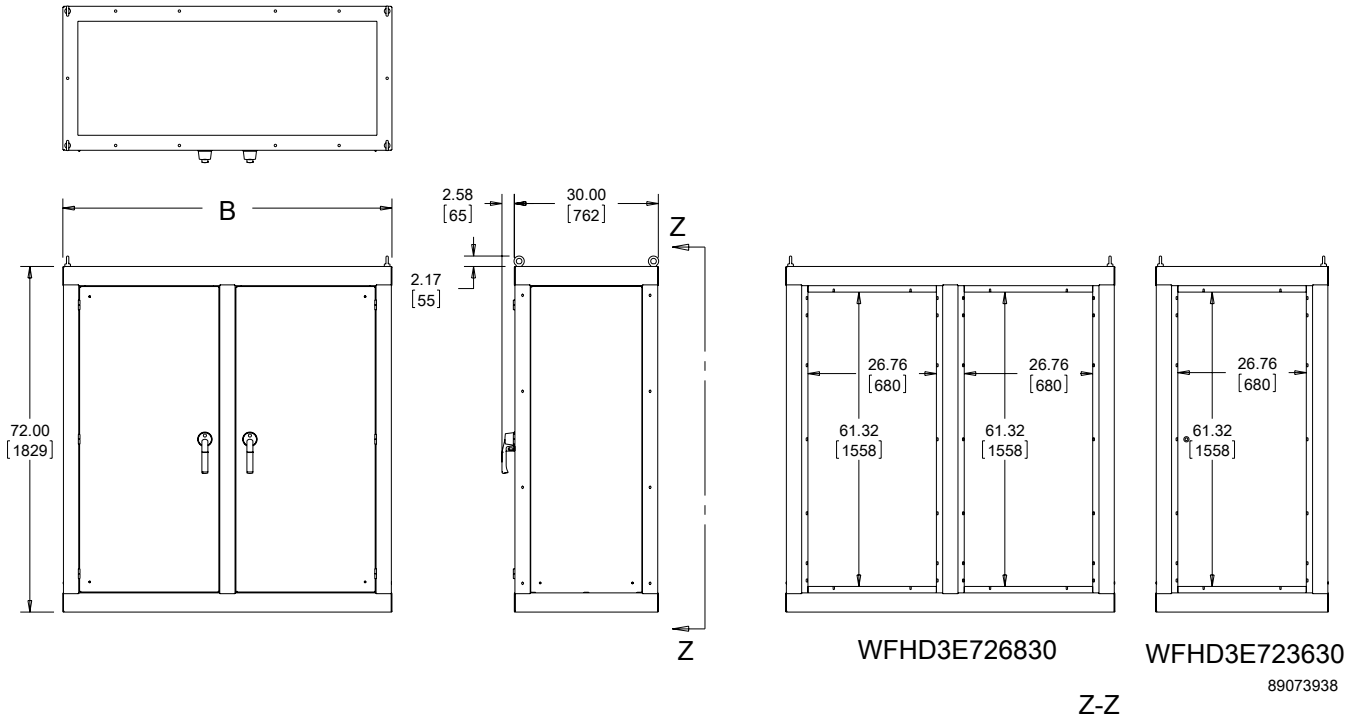
Hoffman excels at modifying and customizing products to your specifications. Modification options for WEATHERFLO HD include: size changes, custom paint, and holes and cut-outs. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A3RHD

Standard Product **One- and Two-Door Frames**

Catalog Number	AxBxC in./mm	Description
WFHD3E723630	74.14 x 36.00 x 30.00 1883 x 914 x 762	One-Door Frame
WFHD3E726830	74.14 x 68.56 x 30.00 1883 x 1741 x 762	Two-Door Frame

Includes frame, door(s), two sides and four lifting eyes.



Product Selection Matrix

	One-Door Enclosure	Two-Door Enclosure
Frame	WFHD3E723630	WFHD3E726830
Solid Top	WFHD3ST3630	WFHD3ST6830
Pagoda Top	WFHD3PT3630	WFHD33PT6830
Solid Base	WFHD3B3630	WFHD3B6830
Vented Base	WFHD3VB3630	WFHD3VB6830
Panel	WFHDP7236	WFHDP7236
Rear Cover	WFHD3RC7236	WFHD3RC7236
Heavy-Duty Rear Cover	WFHD3RCH7236	WFHD3RCH7236
Gland Plate	WFHD3GP	WFHD3GP
Impeller	WFHDFP	WFHDFP

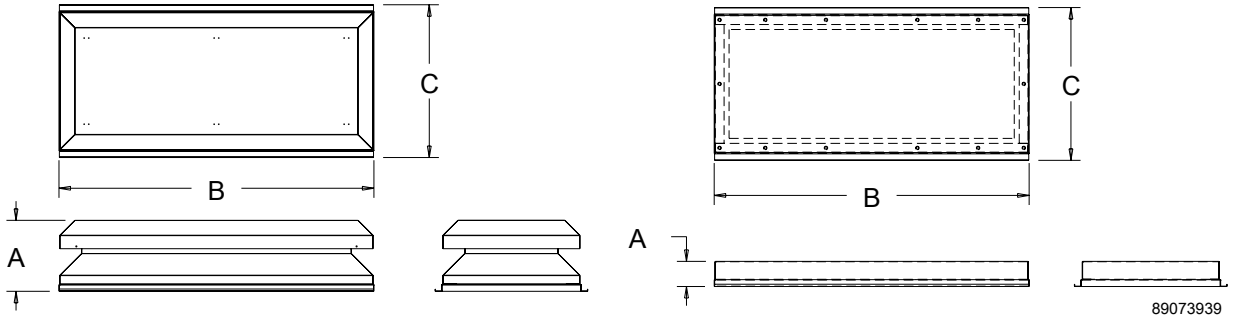
Two-Door enclosures require two rear covers and two panels.

TOPS

Pagoda tops are designed to be used with Hoffman's Impeller packages. Pagoda tops include aluminum dampers and a stainless steel mesh to prevent the ingress of debris. Solid tops are designed to be used with a closed-loop cooling solution.

BULLETIN: A3RHD

Catalog Number	AxBxC in.	AxBxC mm	Description
WFHD3PT3630	15.53 x 36.00 x 33.42	394 x 914 x 849	Pagoda Top, One-Door
WFHD3ST3630	5.50 x 36.26 x 33.42	140 x 921 x 849	Solid Top, One-Door
WFHD3PT6830	15.53 x 68.89 x 33.42	394 x 1750 x 849	Pagoda Top, Two-Door
WFHD3ST6830	5.50 x 68.89 x 33.42	140 x 1750 x 849	Solid Top, Two-Door

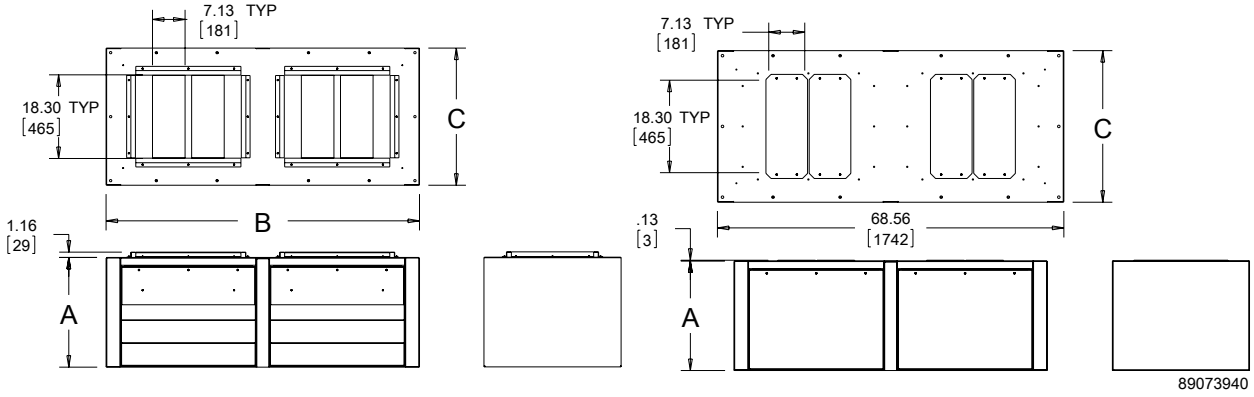


BASES

Vented bases are designed to be used with Hoffman's Impeller packages and include a stainless steel mesh to prevent the ingress of debris. The vented bases have a provision to easily install a standard furnace filter. If vented bases are used, a maximum airflow furnace filter is recommended. Filters are not provided. Solid bases are designed to be used with a closed-loop cooling solution.

BULLETIN: A3RHD

Catalog Number	AxBxC in./mm	Description	Gland Plate Openings
WFHD3B3630	24.00 x 36.00 x 30.00 610 x 914 x 762	Solid Base, One-Door	2
WFHD3VB3630	24.00 x 36.00 x 30.00 610 x 914 x 762	Vented Base, One-Door	2
WFHD3B6830	24.00 x 68.56 x 30.00 610 x 1741 x 762	Solid Base, Two-Door	4
WFHD3VB6830	24.00 x 68.56 x 30.00 610 x 1741 x 762	Vented Base, Two-Door	4

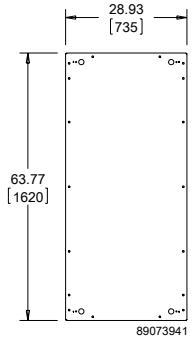


PANEL

The panel size and openings are the same regardless of frame size. Select a panel for each door.

BULLETIN: A3RHD

Catalog Number	AxBxC in./mm	Description
WFHDP7236	63.77 x 28.93 x 1.12 1620 x 735 x 28	Panel

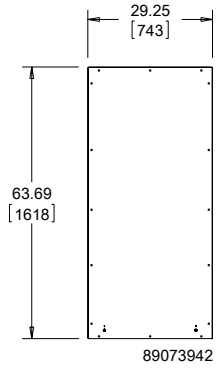


REAR COVERS

The heavy-duty rear cover is designed for those applications when the drive is mounted directly to the rear cover of the enclosure instead of to the panel. Select a rear cover for each door.

BULLETIN: A3RHD

Catalog Number	AxBxC in./mm	Description	Material
WFHD3RC7236	63.69 x 29.25 x 1.29 1618 x 743 x 33	Aluminum Rear Cover	.100-in. Aluminum
WFHD3RCH7236	63.69 x 29.25 x 1.29 1618 x 743 x 33	Heavy-Duty Rear Cover	12 Ga. Mild Steel

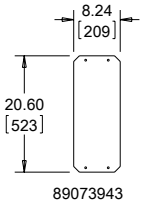


GLAND PLATE

The gland plate is intended for use in combination with the vented base to cover unused impeller locations.

BULLETIN: A3RHD

Catalog Number	AxB in./mm	Description
WFHD3GP	20.60 x 8.24 523 x 209	Gland Plate



JOINING KIT

The joining kit will work on either one- or two-door models. The kit includes hardware and instructions. Enclosures should be joined/ganged at the application site, as the kit is not designed to be used while the enclosures are in transit.

BULLETIN: A3RHD

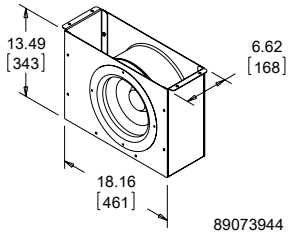
Catalog Number	Description
WFHDJK	Joining Kit

IMPELLER

Each Impeller package includes one high-performance, 115 VAC 60 Hz, shielded impeller and an aluminum housing. Each vented base has a provision for two impellers per door.
Please see performance chart below.

BULLETIN: A3RHD

Catalog Number	Description	Impeller Qty.
WFHDFP	Impeller Package	1



CFM Performance Chart

Number of Impellers	CFM	Maximum Heat Disipation at 10° ΔT (W)	Maximum Heat Disipation at 20° ΔT (W)	Maximum Heat Disipation at 30° ΔT (W)	Maximum Heat Disipation at 40° ΔT (W)
1	840	2,654	5,309	7,963	10,618
2	1680	5,309	10,618	15,926	21,235
3	2520	7,963	15,926	23,890	31,853
4	3360	10,618	21,235	31853	42,470

Calculated using the following equation: Watts = .316 x CFM x ΔT

nVent | HOFFMAN

SCREW COVER PULL BOX, TYPE 4X

APPLICATION

Use this enclosure in commercial and industrial applications that require a junction box or pull box in a corrosive environment.

FEATURES

- Seams continuously welded and ground smooth
- Oil-resistant gasket and adhesive
- Captivated stainless steel cover screw threaded into sealed walls

SPECIFICATIONS

- Type 304 stainless steel covers and bodies
- 10 to 16 gauge stainless steel

FINISH

No. 2B finish

ACCESSORIES

Handle Kit, page 809
Mounting Bracket Kit, Plated and 316, page 809
Mounting Bracket Kit, 304, page 809

BULLETIN: A90S4

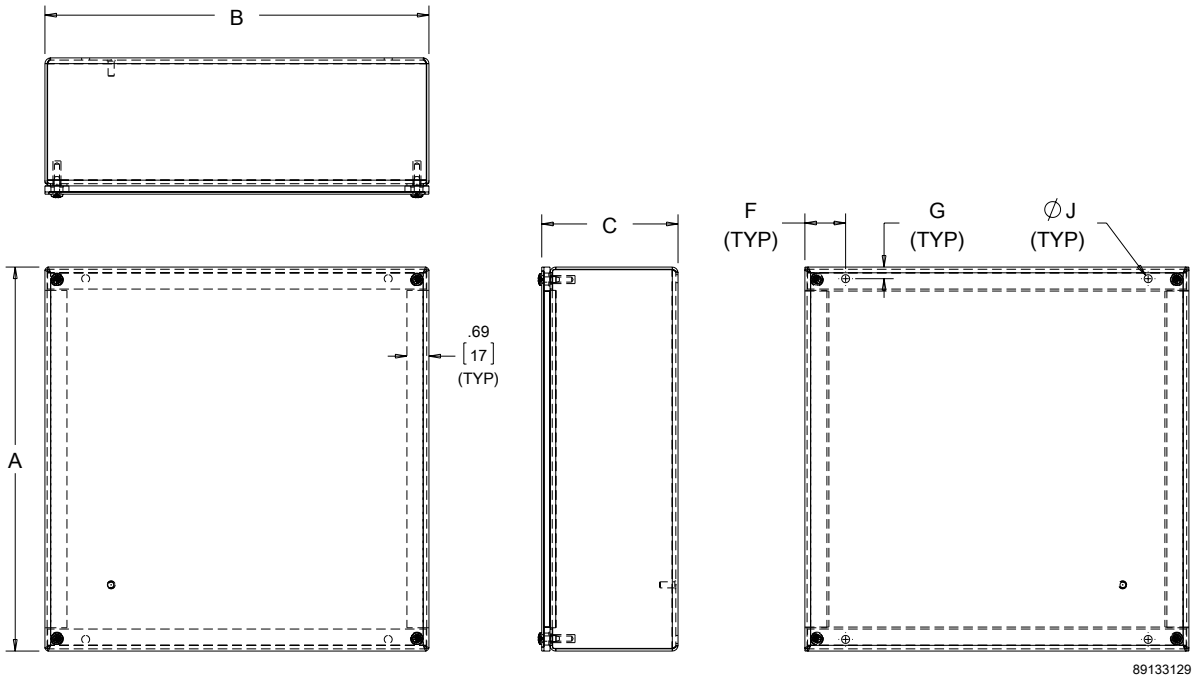
INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3, 3R, 4, 4X, 12; File No. E27525; cUL Listed per CSA C22.2 No. 40 and No. 94.2; Type 3, 3R, 4, 4X, 12

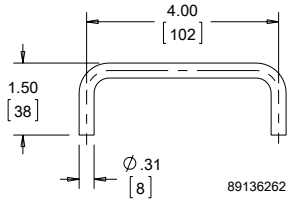
IEC 60529, IP66

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	No. of Cover Screws	Cover Gauge	Body Gauge	F (in.)	F (mm)	G (in.)	G (mm)	J (in.)	J (mm)
ASE6X6X4SSNK	6.00 x 6.00 x 4.00	152 x 152 x 102	4	16	16	1.27	32	.36	9	.25	6
ASE6X6X6SSNK	6.00 x 6.00 x 6.00	152 x 152 x 152	4	16	16	1.27	32	.36	9	.25	6
ASE8X6X4SSNK	8.00 x 6.00 x 4.00	203 x 153 x 102	4	16	16	1.27	32	.36	9	.25	6
ASE8X8X4SSNK	8.00 x 8.00 x 4.00	203 x 203 x 102	4	16	16	1.27	32	.36	9	.25	6
ASE8X8X6SSNK	8.00 x 8.00 x 6.00	203 x 203 x 152	4	14	16	1.27	32	.36	9	.25	6
ASE10X8X4SSNK	10.00 x 8.00 x 4.00	254 x 203 x 102	4	14	14	1.27	32	.36	9	.25	6
ASE10X8X6SSNK	10.00 x 8.00 x 6.00	254 x 203 x 152	4	14	14	1.27	32	.36	9	.25	6
ASE10X10X4SSNK	10.00 x 10.00 x 4.00	254 x 254 x 102	4	12	14	1.27	32	.36	9	.25	6
ASE10X10X6SSNK	10.00 x 10.00 x 6.00	254 x 254 x 152	4	12	14	1.27	32	.36	9	.25	6
ASE12X8X4SSNK	12.00 x 8.00 x 4.00	305 x 203 x 102	4	12	14	1.27	32	.36	9	.25	6
ASE12X10X4SSNK	12.00 x 10.00 x 4.00	305 x 254 x 102	4	12	14	1.27	32	.36	9	.25	6
ASE12X12X4SSNK	12.00 x 12.00 x 4.00	305 x 305 x 102	8	12	14	1.27	32	.36	9	.25	6
ASE12X12X6SSNK	12.00 x 12.00 x 6.00	305 x 305 x 152	8	12	14	1.27	32	.36	9	.25	6
ASE12X12X8SSNK	12.00 x 12.00 x 8.00	305 x 305 x 203	8	12	14	1.27	32	.36	9	.25	6
ASE16X12X4SSNK	16.00 x 12.00 x 4.00	406 x 305 x 102	8	12	14	.75	19	.75	19	.50	13
ASE16X16X6SSNK	16.00 x 16.00 x 6.00	406 x 406 x 152	8	14	14	.75	19	.75	19	.50	13
ASE18X12X4SSNK	18.00 x 12.00 x 4.00	457 x 305 x 102	8	12	14	.75	19	.75	19	.50	13
ASE18X12X6SSNK	18.00 x 12.00 x 6.00	457 x 305 x 152	8	12	14	.75	19	.75	19	.50	13
ASE18X18X4SSNK	18.00 x 18.00 x 4.00	457 x 457 x 102	8	14	14	.75	19	.75	19	.50	13
ASE18X18X6SSNK	18.00 x 18.00 x 6.00	457 x 457 x 152	8	14	14	.75	19	.75	19	.50	13
ASE18X18X8SSNK	18.00 x 18.00 x 8.00	457 x 457 x 203	8	14	14	.75	19	.75	19	.50	13
ASE24X24X6SSNK	24.00 x 24.00 x 6.00	610 x 610 x 152	10	12	14	.75	19	.75	19	.50	13
ASE24X24X8SSNK	24.00 x 24.00 x 8.00	610 x 610 x 203	10	12	14	.75	19	.75	19	.50	13
ASE24X24X10SSNK	24.00 x 24.00 x 10.00	610 x 610 x 254	10	12	14	.75	19	.75	19	.50	13
ASE24X24X12SSNK	24.00 x 24.00 x 12.00	610 x 610 x 305	10	12	14	.75	19	.75	19	.50	13
ASE30X30X6SSNK	30.00 x 30.00 x 6.00	762 x 762 x 152	12	14	14	.75	19	.75	19	.50	13
ASE30X30X8SSNK	30.00 x 30.00 x 8.00	762 x 762 x 203	12	14	14	.75	19	.75	19	.50	13
ASE30X30X10SSNK	30.00 x 30.00 x 10.00	762 x 762 x 254	12	14	14	.75	19	.75	19	.50	13
ASE30X30X12SSNK	30.00 x 30.00 x 12.00	762 x 762 x 305	12	14	14	.75	19	.75	19	.50	13
ASE36X36X6SSNK	36.00 x 36.00 x 6.00	914 x 914 x 152	16	14	14	.75	19	.75	19	.50	13
ASE36X36X8SSNK	36.00 x 36.00 x 8.00	914 x 914 x 203	16	14	14	.75	19	.75	19	.50	13
ASE36X36X12SSNK	36.00 x 36.00 x 12.00	914 x 914 x 305	16	14	14	.75	19	.75	19	.50	13
ASE48X48X12SSNK	48.00 x 48.00 x 12.00	1219 x 1219 x 305	20	10	14	.75	19	.75	19	.50	13



HANDLE KIT



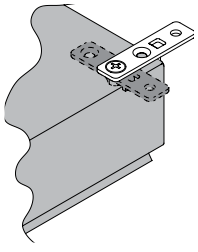
Handles are stainless steel for mounting on enclosure sides. Kit includes two handles and all mounting hardware.

BULLETIN: F24

Standard Product

Catalog Number	Description
STSCHDL	Stainless steel handles

MOUNTING BRACKET KIT, PLATED AND 316



Kit is field-installable on all solid-back-body enclosures. Hardware included. Four brackets per kit.

BULLETIN: A54SY, A54Y

Catalog Number	Description
LMFK	Plated steel mounting-bracket kit
LMFKSS	Type 316L stainless steel mounting-bracket kit

Use of LMFKSS recommended to maintain Type 4X rating.

MOUNTING BRACKET KIT, 304

Type 304 stainless steel brackets are field-installable. Brackets maintain Type 4X rating. All hardware is included. Four brackets per kit.

Top brackets must be mounted to the sides of enclosure.

BULLETIN: A80

Catalog Number	Description
CMFKSS	Type 304 stainless steel mounting bracket kit

nVent | HOFFMAN

TELEPHONE CABINET, TYPE 1

FEATURES

- Continuous hinge
- Tumbler lock with key
- Flush or surface mounting
- 3/4-in.-thick plywood mounting panel included

SPECIFICATIONS

- 16, 14 or 12 gauge galvanized steel body, mild steel door

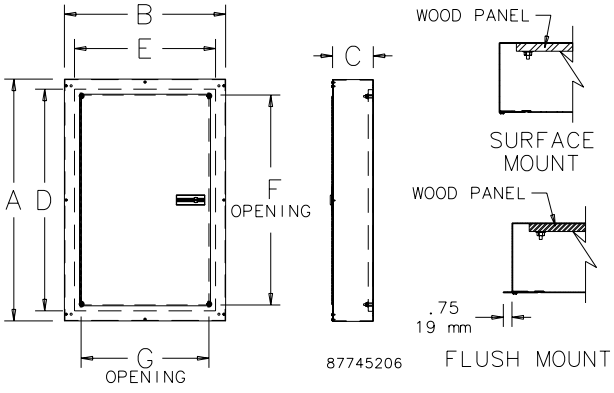
FINISH

- ANSI 61 gray polyester powder paint on front only

ACCESSORIES

Replacement Tumbler Lock, page 811

BULLETIN: T90



INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27567
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27567

NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

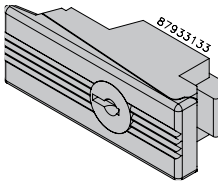
Telephone Cabinets house telephone and communication cable terminations as well as electrical controls and instruments in indoor applications.

Standard Product

Catalog Number	AxBxC in./mm	Mount	Panel Size D x E in./mm	Nominal Door Size F in./mm	Nominal Door Size G in./mm
ATC10104S	10.00 x 10.00 x 4.00 254 x 254 x 102	Surface	7.00 x 7.00 178 x 178	6.80 173	6.75 171
ATC10104F	10.00 x 10.00 x 4.00 254 x 254 x 102	Flush	7.00 x 7.00 178 x 178	6.80 173	6.75 171
ATC12124S	12.00 x 12.00 x 4.00 305 x 305 x 102	Surface	9.00 x 9.00 229 x 229	8.30 211	8.25 210
ATC12124F	12.00 x 12.00 x 4.00 305 x 305 x 102	Flush	9.00 x 9.00 229 x 229	8.30 211	8.25 210
ATC18124S	18.00 x 12.00 x 4.00 457 x 305 x 102	Surface	15.00 x 9.00 381 x 229	14.30 363	8.25 210
ATC18124F	18.00 x 12.00 x 4.00 457 x 305 x 102	Flush	15.00 x 9.00 381 x 229	14.30 363	8.25 210
ATC18184S	18.00 x 18.00 x 4.00 457 x 457 x 102	Surface	15.00 x 15.00 381 x 381	14.30 363	14.25 362
ATC18184F	18.00 x 18.00 x 4.00 457 x 457 x 102	Flush	15.00 x 15.00 381 x 381	14.30 363	14.25 362
ATC24184S	24.00 x 18.00 x 4.00 610 x 457 x 102	Surface	21.00 x 15.00 533 x 381	20.30 516	14.25 362
ATC24184F	24.00 x 18.00 x 4.00 610 x 457 x 102	Flush	21.00 x 15.00 533 x 381	20.30 516	14.25 362
ATC24244S	24.00 x 24.00 x 4.00 610 x 610 x 102	Surface	21.00 x 21.00 533 x 533	19.30 490	19.14 486
ATC24244F	24.00 x 24.00 x 4.00 610 x 610 x 102	Flush	21.00 x 21.00 533 x 533	19.30 490	19.14 486
ATC30244S	30.00 x 24.00 x 4.00 762 x 610 x 102	Surface	27.00 x 21.00 686 x 533	25.30 643	19.14 486
ATC30244F	30.00 x 24.00 x 4.00 762 x 610 x 102	Flush	27.00 x 21.00 686 x 533	25.30 643	19.14 486
ATC30304S	30.00 x 30.00 x 4.00 762 x 762 x 102	Surface	27.00 x 27.00 686 x 686	25.30 643	25.14 639
ATC36244S	36.00 x 24.00 x 4.00 914 x 610 x 102	Surface	33.00 x 21.00 838 x 533	31.30 795	19.14 486
ATC36244F	36.00 x 24.00 x 4.00 914 x 610 x 102	Flush	33.00 x 21.00 838 x 533	31.30 795	19.14 486

Catalog Number	AxBxC in./mm	Mount	Panel Size D x E in./mm	Nominal Door Size F in./mm	Nominal Door Size G in./mm
ATC36364S	36.00 x 36.00 x 4.00 914 x 914 x 102	Surface	33.00 x 33.00 838 x 838	31.30 795	31.14 791
ATC36364F	36.00 x 36.00 x 4.00 914 x 914 x 102	Flush	33.00 x 33.00 838 x 838	31.30 795	31.14 791
ATC12126S	12.00 x 12.00 x 6.00 305 x 305 x 152	Surface	9.00 x 9.00 229 x 229	8.30 211	8.25 210
ATC12126F	12.00 x 12.00 x 6.00 305 x 305 x 152	Flush	9.00 x 9.00 229 x 229	8.30 211	8.25 210
ATC18126S	18.00 x 12.00 x 6.00 457 x 305 x 152	Surface	15.00 x 9.00 381 x 229	14.30 363	8.25 210
ATC18126F	18.00 x 12.00 x 6.00 457 x 305 x 152	Flush	15.00 x 9.00 381 x 229	14.30 363	8.25 210
ATC18186S	18.00 x 18.00 x 6.00 457 x 457 x 152	Surface	15.00 x 15.00 381 x 381	14.30 363	14.25 362
ATC18186F	18.00 x 18.00 x 6.00 457 x 457 x 152	Flush	15.00 x 15.00 381 x 381	14.30 363	14.25 362
ATC24186S	24.00 x 18.00 x 6.00 610 x 457 x 152	Surface	21.00 x 15.00 533 x 381	20.30 516	14.25 362
ATC24186F	24.00 x 18.00 x 6.00 610 x 457 x 152	Flush	21.00 x 15.00 533 x 381	20.30 516	14.25 362
ATC24246S	24.00 x 24.00 x 6.00 610 x 610 x 152	Surface	21.00 x 21.00 533 x 533	19.30 490	19.14 486
ATC24246F	24.00 x 24.00 x 6.00 610 x 610 x 152	Flush	21.00 x 21.00 533 x 533	19.30 490	19.14 486
ATC30246S	30.00 x 24.00 x 6.00 762 x 610 x 152	Surface	27.00 x 21.00 686 x 533	25.30 643	19.14 486
ATC30306S	30.00 x 30.00 x 6.00 762 x 762 x 152	Surface	27.00 x 27.00 686 x 686	25.30 643	25.14 639
ATC30306F	30.00 x 30.00 x 6.00 762 x 762 x 152	Flush	27.00 x 27.00 686 x 686	25.30 643	25.14 639
ATC36246S	36.00 x 24.00 x 6.00 914 x 610 x 152	Surface	33.00 x 21.00 838 x 533	31.30 795	19.14 486
ATC36246F	36.00 x 24.00 x 6.00 914 x 610 x 152	Flush	33.00 x 21.00 838 x 533	31.30 795	19.14 486
ATC36306S	36.00 x 30.00 x 6.00 914 x 762 x 152	Surface	33.00 x 27.00 838 x 686	31.30 795	25.14 639
ATC36306F	36.00 x 30.00 x 6.00 914 x 762 x 152	Flush	33.00 x 27.00 838 x 686	31.30 795	25.14 639
ATC36366S	36.00 x 36.00 x 6.00 914 x 914 x 152	Surface	33.00 x 33.00 838 x 838	31.30 795	31.14 791
ATC36366F	36.00 x 36.00 x 6.00 914 x 914 x 152	Flush	33.00 x 33.00 838 x 838	31.30 795	31.14 791
ATC36308S	36.00 x 30.00 x 8.00 914 x 762 x 203	Surface	33.00 x 27.00 838 x 686	31.30 795	25.14 639
ATC36308F	36.00 x 30.00 x 8.00 914 x 762 x 203	Flush	33.00 x 27.00 838 x 686	31.30 795	25.14 639

REPLACEMENT TUMBLER LOCK



Tumbler lock including key available for replacement of door latch (order separately).

BULLETIN: T90

Catalog Number	Description
ATCL	Keyed Tumbler Lock

nVent | HOFFMAN

T3-BOX TELEPHONE CABINET, TYPE 3R

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27567
UL 497 / 1863 Listed; File No. E230874
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27567

NEMA Type 3R
IEC 60529 IP32

APPLICATION

Use T-3 Box Telephone Cabinets to mount and protect telephone terminations, telecommunications circuit accessories, cross-connect terminal block assemblies, maintenance terminal modules, cable-splice enclosures, network interface devices, wire-guide assemblies and telephone protectors in outdoor applications.

FEATURES

- Lift-off hinges
- 4-position grounding bar #14-2/0
- Tamper-resistant quarter-turn latch
- 7-mm square drive; use key accessory CLKSM7 or 5/16 12-point socket
- Padlock hasp
- Standard knockouts

SPECIFICATIONS

- 16 or 14 gauge galvanized steel
- 3/4-in.-thick plywood panel

FINISH

ANSI 61 gray polyester powder paint inside and outside.

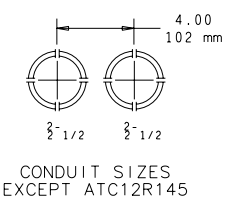
ACCESSORIES

Large Enclosure Door Stop Kit, page 1351
Lock Inserts, page 1443
Touch-Up Paint, page 1379

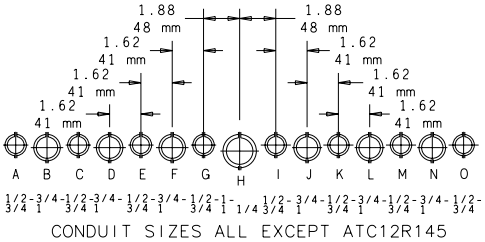
BULLETIN: T90R3

Standard Product

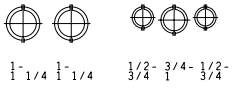
Catalog Number	AxBxC in.	AxBxC mm	Door	F (in.)	F (mm)	Panel Size D x E (in.)	Panel Size D x E (mm)	Conduit Pattern
ATC12R145	12.00 x 14.00 x 5.00	305 x 356 x 127	Single	4.00	102	9.00 x 11.00	229 x 279	G-H-I
ATC36R366	36.00 x 36.00 x 6.00	914 x 914 x 152	Single	13.50	343	33.00 x 33.00	838 x 838	C-D-E-F-G-H-I-J-K-L-M
ATC26R248	26.00 x 24.00 x 8.00	660 x 610 x 203	Single	7.50	191	23.00 x 21.00	584 x 533	E-F-G-H-I-J-K
ATC36R248	36.00 x 24.00 x 8.00	914 x 610 x 203	Single	7.50	191	33.00 x 21.00	838 x 533	E-F-G-H-I-J-K
ATC36R308	36.00 x 30.00 x 8.00	914 x 762 x 203	Single	10.50	267	33.00 x 27.00	838 x 686	D-E-F-G-H-I-J-K-L
ATC36R369	36.00 x 36.00 x 9.00	914 x 914 x 229	Single	13.50	343	33.00 x 33.00	838 x 838	C-D-E-F-G-H-I-J-K-L-M
ATC42R369	42.00 x 36.00 x 9.00	1067 x 914 x 229	Double	13.50	343	39.00 x 33.00	911 x 838	C-D-E-F-G-H-I-J-K-L-M
ATC48R369	48.00 x 36.00 x 9.00	1219 x 914 x 229	Double	13.50	343	45.00 x 33.00	1143 x 838	C-D-E-F-G-H-I-J-K-L-M
ATC48R489	48.00 x 48.00 x 9.00	1219 x 1219 x 229	Double	19.50	495	45.00 x 45.00	1143 x 1143	A-B-C-D-E-F-G-H-I-J-K-L-M-O
ATC36R3612	36.00 x 36.00 x 12.00	914 x 914 x 305	Single	13.50	343	33.00 x 33.00	838 x 838	C-D-E-F-G-H-I-J-K-L-M



CONDUIT SIZES
EXCEPT ATC12R145



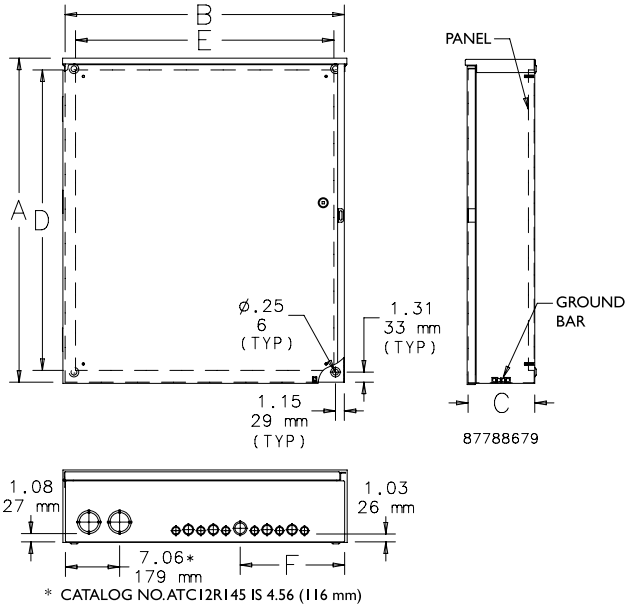
CONDUIT SIZES ALL EXCEPT ATC12R145

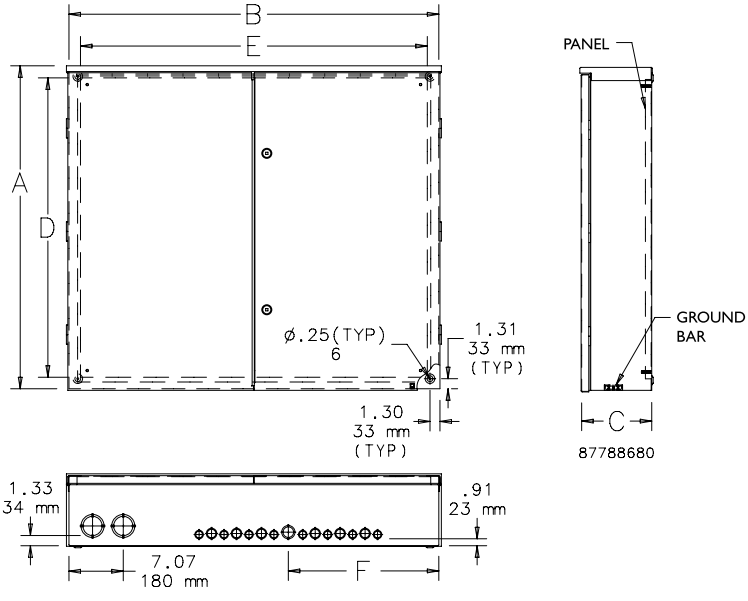


CONDUIT SIZES
ATC12R145

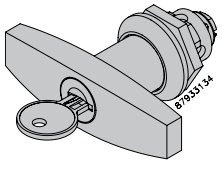
Knockout Pattern
(from outside of box)

87788681





LOCKING T HANDLE



Optional locking T-Handle available for replacement of the quarter-turn latch (order separately).

BULLETIN: T90R3

Catalog Number	Description
ALTC3R	Available for replacement of the quarter-turn latch

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CURRENT TRANSFORMER, SCREW COVER, TYPE 3R

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA Type 3R
IEC 60529, IP32

APPLICATION

Current Transformer Cabinets provide outdoor protection and security for instrument current transformers, which are frequently required for transformer-rated watt-hour metering. Cabinets can also be used as junction or service boxes and house meter, transformer, relay or terminal assemblies.

FEATURES

- Dripshield top and seam-free sides, front and back
- Slip-on removable cover fastened with captivated plated steel screws along bottom edge
- Mounting studs on enclosure body
- Mounting holes on back of enclosure
- Door handles provided
- Provisions for padlocking
- No gasketing or knockouts
- Ground lug

SPECIFICATIONS

- 16, 14 or 12 gauge plated steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over plated surfaces.

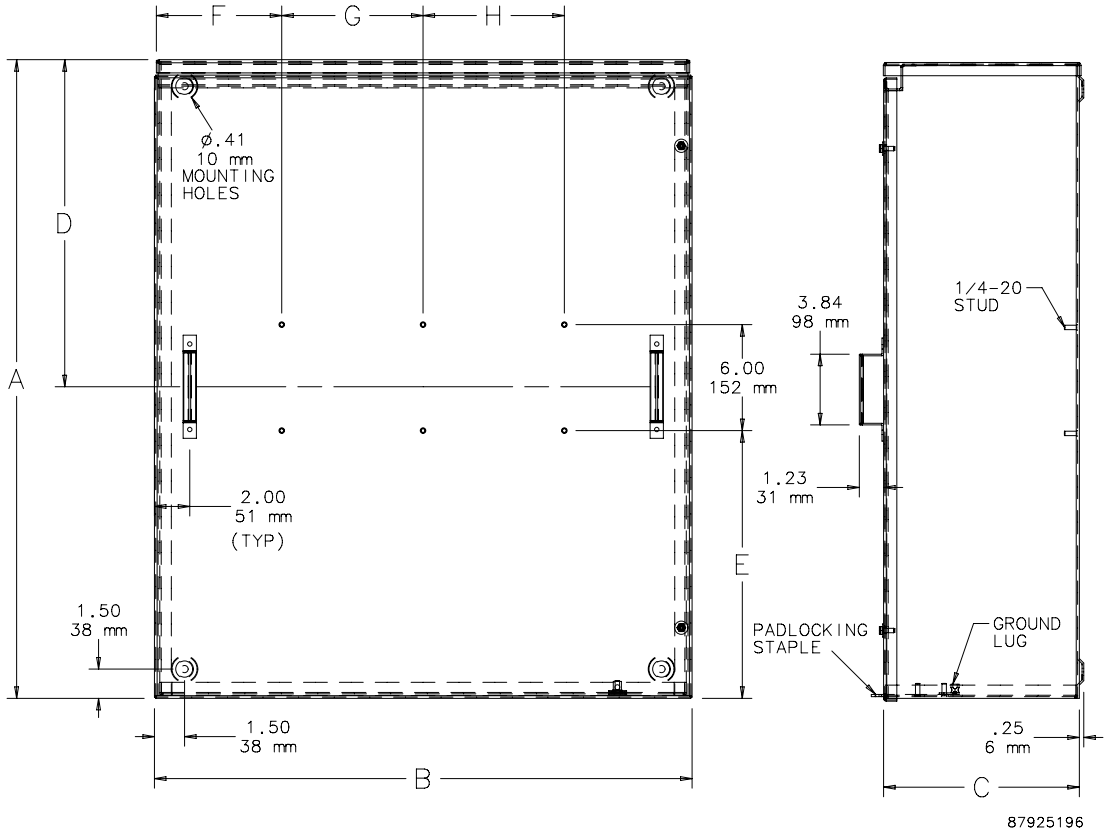
ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Grounding Device, page 1386
Touch-Up Paint, page 1379

BULLETIN: A90CT

Standard Product

Catalog Number	AxBxC in./mm	D in./mm	E in./mm	F in./mm	G in./mm	H in./mm
A242411CT	24.00 x 24.00 x 11.00 610 x 610 x 279	12.19 310	9.00 229	8.00 203	8.00 203	— —
A303011CT	30.00 x 30.00 x 11.00 762 x 762 x 279	15.19 386	12.00 305	7.00 178	8.00 203	8.00 203
A363011CT	36.00 x 30.00 x 11.00 914 x 762 x 279	18.19 462	15.00 381	7.00 178	8.00 203	8.00 203
A363611CT	36.00 x 36.00 x 11.00 914 x 914 x 279	18.19 462	15.00 381	10.00 254	8.00 203	8.00 203
A483611CT	48.00 x 36.00 x 11.00 1219 x 914 x 279	24.19 614	21.00 533	10.00 254	8.00 203	8.00 203


F
G
H
ø.41
10 mm
MOUNTING
HOLES
D
A
2.00
51 mm
(TYP)
1.50
38 mm
1.50
38 mm
B
6.00
152 mm
E
3.84
98 mm
1.23
31 mm
1/4-20
STUD
PADLOCKING
STAPLE
GROUND
LUG
.25
6 mm
C
87925196

nVent | HOFFMAN

CURRENT TRANSFORMER, HINGED COVER, TYPE 3R

Double Door (A484814HCT only)

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA Type 3R
IEC 60529, IP32

APPLICATION

Current Transformer Cabinets provide outdoor protection and security for instrument current transformers, which are frequently required for transformer-rated watt-hour metering. Cabinets can also be used as junction or service boxes and house meter, transformer, relay or terminal assemblies.

FEATURES

- Dripshield top and seam-free sides, front and back
- Mounting holes on back of enclosure
- Mounting studs are provided on the enclosure body
- Cover is removable in the open position
- Door handles provided
- Provisions for padlocking
- No gasketing or knockouts
- Ground lug
- Mounting provisions for optional door stop

SPECIFICATIONS

- 14 or 12 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized surfaces.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Grounding Device, page 1386
Touch-Up Paint, page 1379
Large Enclosure Door Stop Kit, page 1351

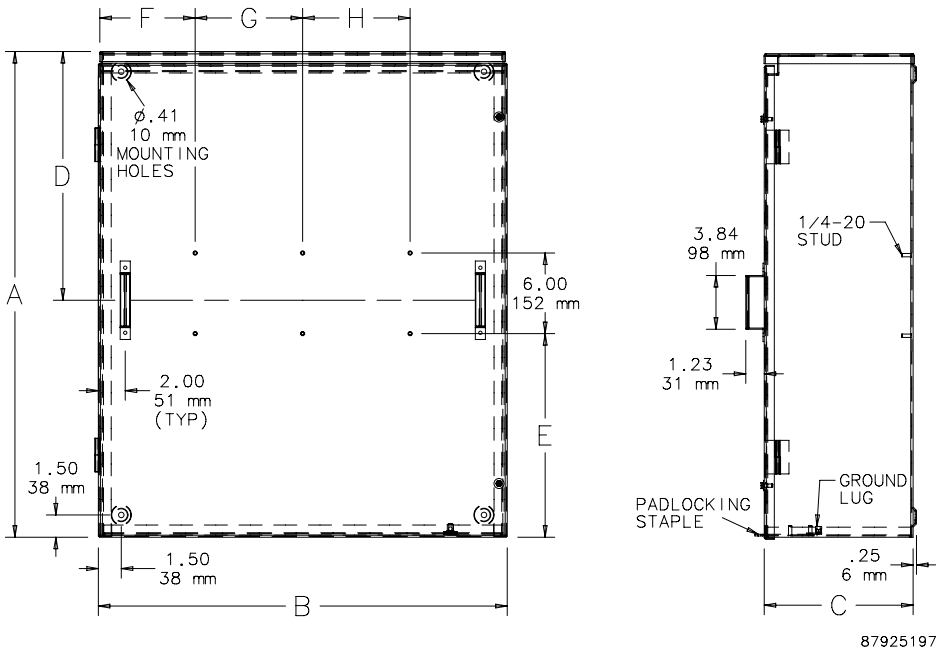
BULLETIN: A90CT

Standard Product

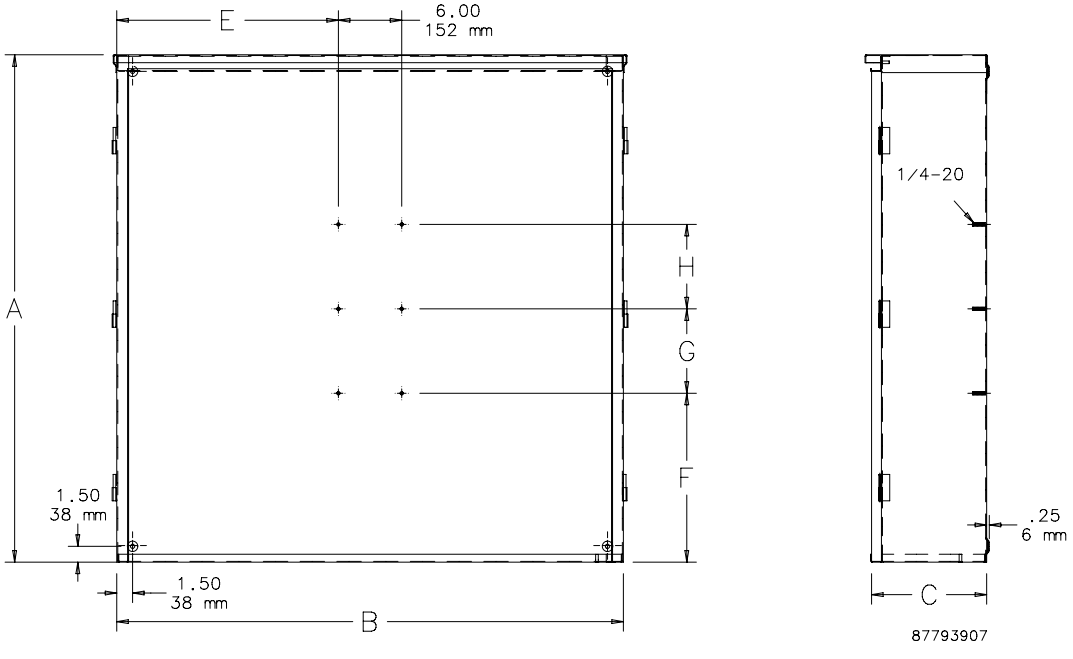
Catalog Number	AxBxC in./mm	Gauge	D in./mm	E in./mm	F in./mm	G in./mm	H in./mm
A362011HCT	36.00 x 20.00 x 11.00 914 x 508 x 279	14	18.75 476	15.00 381	6.67 169	8.00 203	— —
A302411HCT	30.00 x 24.00 x 11.00 762 x 610 x 279	14	15.75 400	12.00 305	8.00 203	8.00 203	— —
A482411HCT	48.00 x 24.00 x 11.00 1219 x 610 x 279	14	24.75 629	21.00 533	8.00 203	8.00 203	— —
A363011HCT	36.00 x 30.00 x 11.00 914 x 762 x 279	12	18.75 476	15.00 381	7.00 178	8.00 203	8.00 203
A483011HCT	48.00 x 30.00 x 11.00 1219 x 762 x 279	12	24.75 629	21.00 533	7.00 178	8.00 203	8.00 203
A363611HCT	36.00 x 36.00 x 11.00 914 x 914 x 279	12	18.75 476	15.00 381	10.00 254	8.00 203	8.00 203
A483611HCT	48.00 x 36.00 x 11.00 1219 x 914 x 279	12	24.75 629	21.00 533	10.00 254	8.00 203	8.00 203
A484814HCT	48.00 x 48.00 x 14.00 1219 x 1219 x 356	12	— —	21.00 533	16.00 406	8.00 203	8.00 203

A484814HCT is a double-door cabinet.

Single-Door Cabinet



Double-Door Cabinet (A484814HCT only)



nVent | HOFFMAN

NATIONAL GRID CURRENT TRANSFORMER, HINGED COVER, TYPE 3R

APPLICATION

Current Transformer Cabinet provides outdoor protection and security for instrument current transformers, which are frequently required for transformer-rated watt-hour metering. Cabinets can also be used as junction or service boxes and house meter, transformer, relay or terminal assemblies.

FEATURES

- Dripshield top and seam-free sides, front and back
- 16 ga. perforated back panel included
- Mounting holes on back of enclosure
- Mounting studs are provided on the enclosure body
- Cover is removable in the open position
- Door handles provided
- Provisions for padlocking
- No gasketing or knockouts
- Ground lug
- Mounting provisions for optional door stop

SPECIFICATIONS

- 12 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized surfaces.

ACCESSORIES

Industrial Corrosion Inhibitors, page 1378
Grounding Device, page 1386
Touch-Up Paint, page 1379
Large Enclosure Door Stop Kit, page 1351

BULLETIN: A90CT

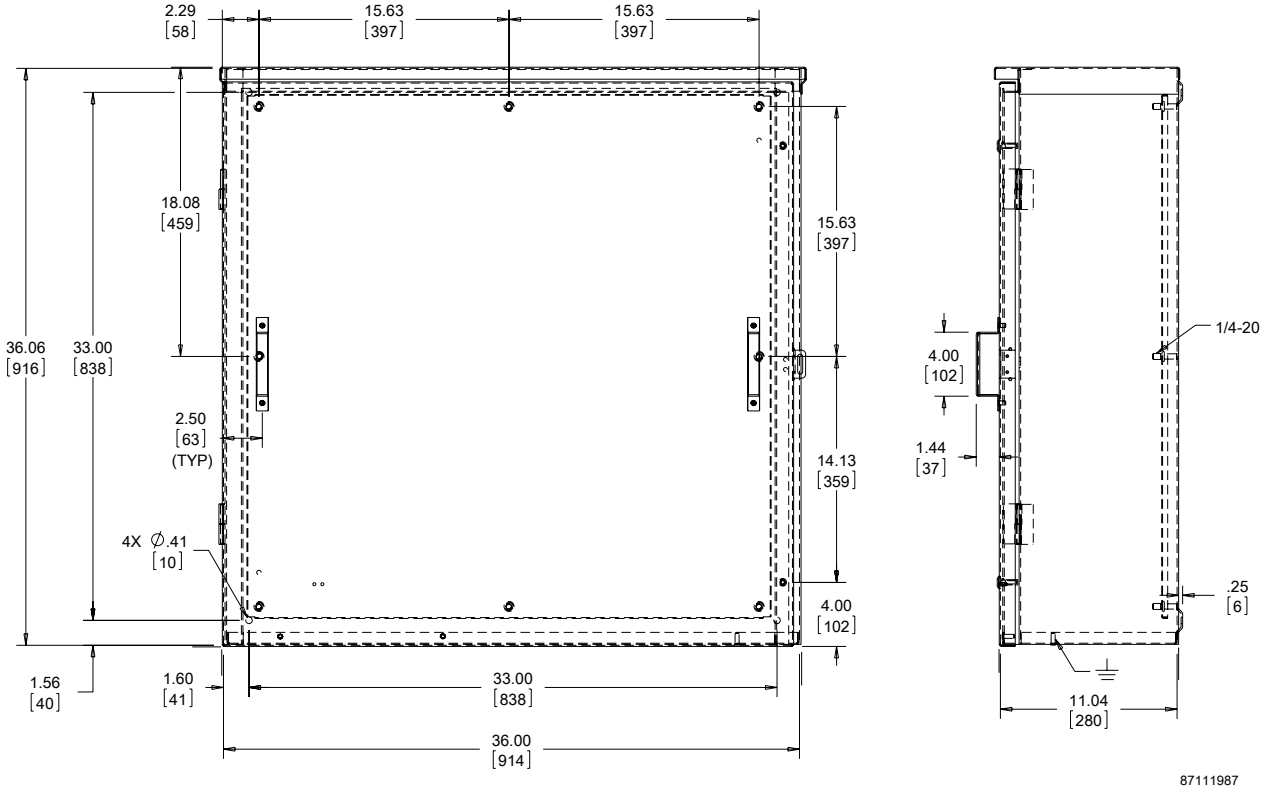
INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

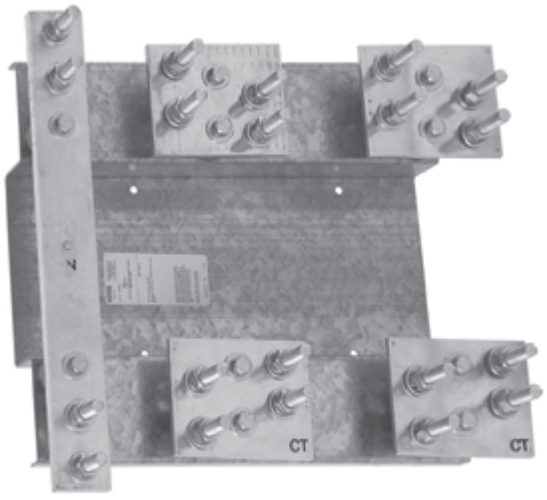
NEMA Type 3R
IEC 60529, IP32

Standard Product

Catalog Number	AxBxC in./mm	Gauge
A363611NGCT	36.00 x 36.00 x 11.00 914 x 914 x 279	12



CT MOUNTING BASE



CTMB8001

APPLICATION

Available in three variations of conductor connection styles to match your application: 1/2-in. studs on 1-3/4-in. centers, a model with mechanical lugs and a model with lugs on one side and studs on the other to accommodate the preference difference between line and load connections. Prepunched mounting base holes align with the studs in a CT enclosure.

FEATURES

- Spacing for bar-type current transformer that conforms to ANSI 12.11
- Conductor provisions: either mechanical lugs or 1/2-in. bolt on 1-3/4-in. centers with nut, spring and flat washer
- Neutral bar with 10-32 tap screw

SPECIFICATIONS

- 12-gauge galvanized formed base has electrically isolated mount/termination platform

FINISH

Galvanized (mounting plate only)

BULLETIN: A90CM

INDUSTRY STANDARDS

UL 414 Listed; File E240312

Standard Product **CT Mounting Base**

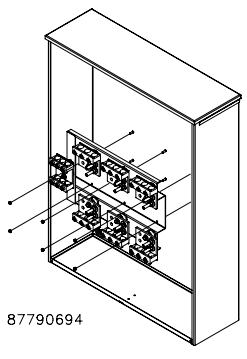
Catalog Number	A.I.C. Rating	Ampacity	Voltage Max. VAC	Service Type	No. of CT Provisions	Connection
CTMB8001	50,000	400-800	600	1Ø3W	2	Studs
CTMB8003	50,000	400-800	600	3Ø4W	3	Studs
CTMB4001L	50,000	400	600	1Ø3W	2	Lugs[a]
CTMB8003L	50,000	800	600	3Ø4W	3	Lugs[a]
CTMB4001LS	50,000	400	600	1Ø3W	2	Lugs and Studs[a]

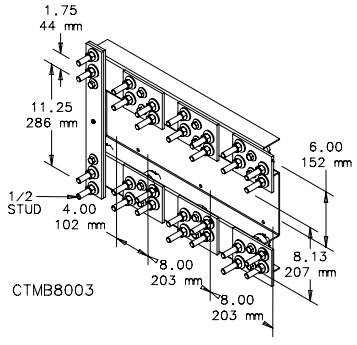
[a]Wire range per phase: (3) 750MCM to 1/0 or (6) 250MCM to 1/0

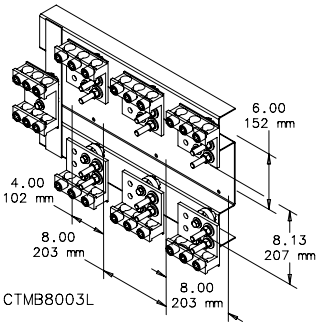
Wire Bend Space

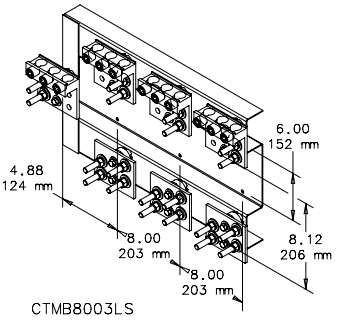
Catalog Number	CTMB8001, CTMB4001LS (in.)	CTMB8001, CTMB4001LS (mm)	CTMB8003 (in.)	CTMB8003 (mm)	CTMB4001L (in.)	CTMB4001L (mm)	CTMB8003L (in.)	CTMB8003L (mm)
A303011CT	6.75	171	6.75	171	7.25	184	7.25	184
A363011CT	9.75	248	9.75	248	10.25	260	10.25	260
A363611CT	9.75	248	9.75	248	10.25	260	10.25	260
A483611CT	15.75	400	15.75	400	16.25	413	10.25	260
A302411HCT	6.75	171	n/a	n/a	7.25	184	n/a	n/a
A482411HCT	15.75	400	n/a	n/a	16.25	413	n/a	n/a
A363011HCT	9.75	248	9.24	235	10.25	260	10.25	260
A483011HCT	15.75	400	15.75	400	16.25	413	16.25	413
A363611HCT	9.75	248	9.75	248	10.25	260	10.25	260
A483611HCT	15.75	400	15.75	400	16.25	413	16.25	413

Consult UL414 for minimum space requirements based on the wire size and the number of wires per terminal.









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CURRENT TRANSFORMER CABINETS, 400-800 AMP, TYPE 3R

INDUSTRY STANDARDS

UL 414 Listed; Type 3R; File No. E240312
UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA Type 3R
IEC 60529, IP32

APPLICATION

These Current Transformer Cabinets (for Window-Type Current Transformers) provide Type 3R protection and a factory-installed wiring buss for 400-800 Amp, 600 VAC current transformers. The assembly has a 50 k AIC rating.

FEATURES

- Overlapping double-door model with 3-point latch and lift-off hinges
- Door stop provision included
- Includes padlock provisions in handle
- Mild steel hinges
- Use with window-type current transformer
- Drip-shield top and seam-free sides, front and back
- Three removable copper buss bars
- Buss bar cross section 3.00 in. x .25 in. (76 mm x 6 mm)
- Neutral bar
- Aluminum mechanical lugs dual rated (Cu/Al), two conductor
- Maximum conductor size 600 kcmil
- Insulating bar mounting bracket 12 gauge painted steel
- Mounting holes on back of enclosure
- No gasketing or knockouts
- Ground stud provided

SPECIFICATIONS

14 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint

ELECTRICAL SPECIFICATIONS

400-800 Amp, 50 k AIC, 600 VAC

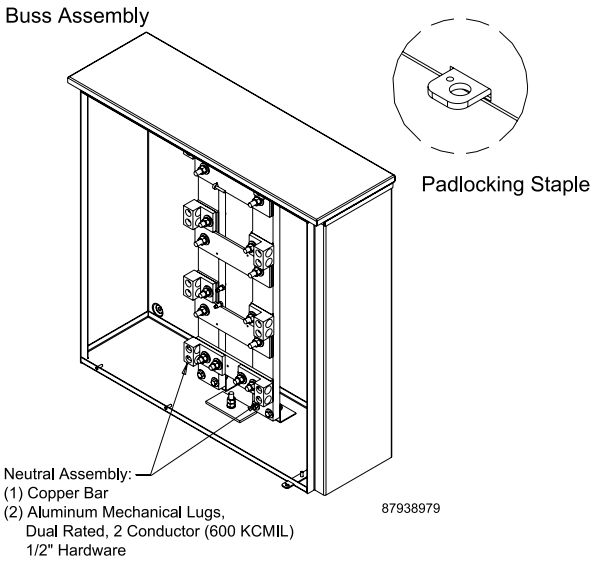
ACCESSORIES

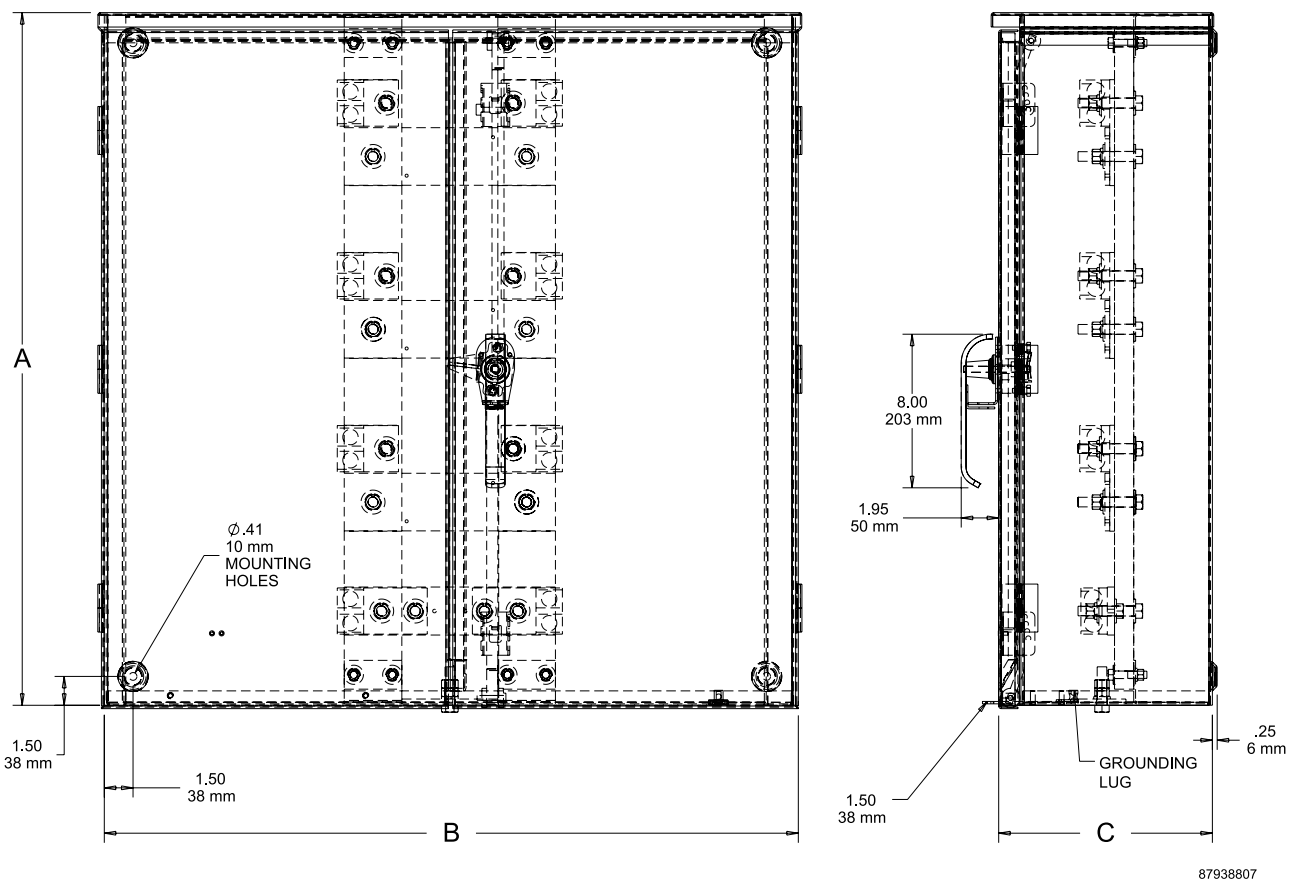
Touch-Up Paint, page 1379

BULLETIN: A90CT

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Style
A800HCT1R	36.00 x 36.00 x 11.00	914 x 914 x 305	Hinged double-door


Buss Assembly
Padlocking Staple
Neutral Assembly:
(1) Copper Bar
(2) Aluminum Mechanical Lugs,
Dual Rated, 2 Conductor (600 KCMIL)
1/2" Hardware
87938979


A
Ø.41
10 mm
MOUNTING
HOLES
1.50
38 mm
1.50
38 mm
B
8.00
203 mm
1.95
50 mm
1.50
38 mm
GROUNDING
LUG
.25
6 mm
C
87938807

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3-PHASE 400-1200 AMP WITH MECHANICAL LUGS, TYPE 3R

INDUSTRY STANDARDS

UL 414 Listed; Type 3R; File No. E240312
UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA Type 3R
IEC 60529, IP 32

APPLICATION

Used in indoor or outdoor applications, these cabinets provide an assembly solution for three-phase service from 400-1200 amp line load terminations for each phase and neutral. Hardware to mount a bar-style current transformer is included.

FEATURES

- Double door with 3-point latch includes padlock feature
- Lift-off hinges for removable doors
- Mechanical lugs provided for three-phase line-load connections plus neutral
- Gound lug
- Catalog no. A1200NECT includes panel-mounting provisions for voltage transformer (VT)
- Embossed mounting holes
- No gasketing or knockouts

SPECIFICATIONS

- Enclosure body and cover constructed of galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out.

ACCESSORIES

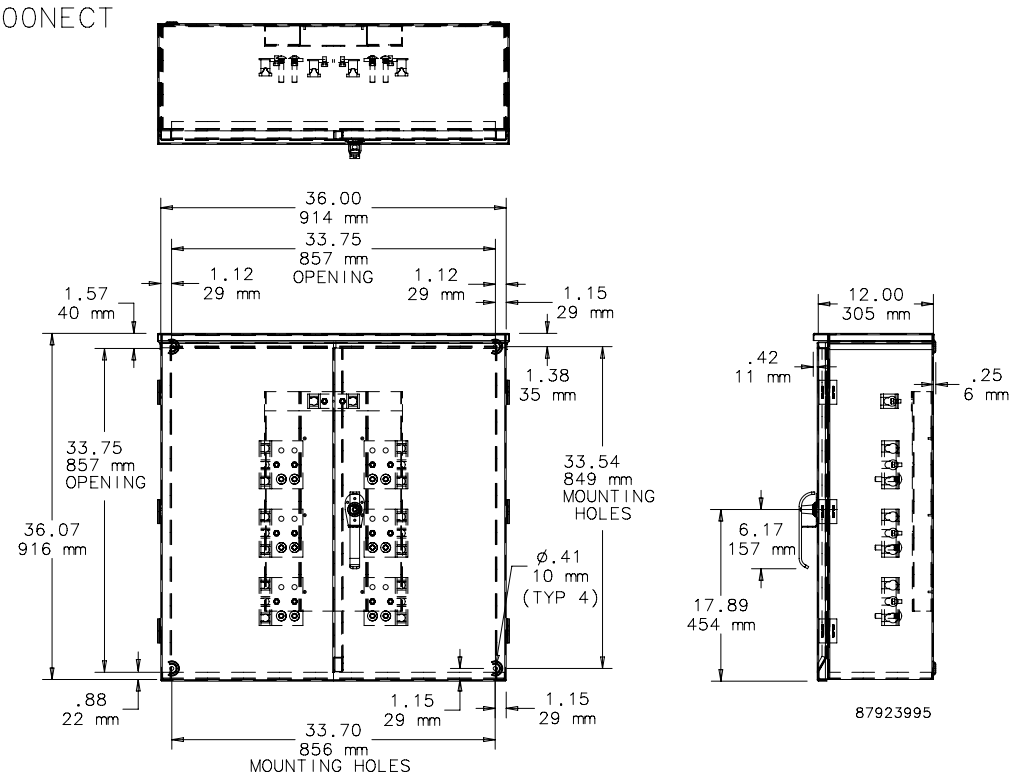
Touch-Up Paint, page 1379

BULLETIN: ARCT

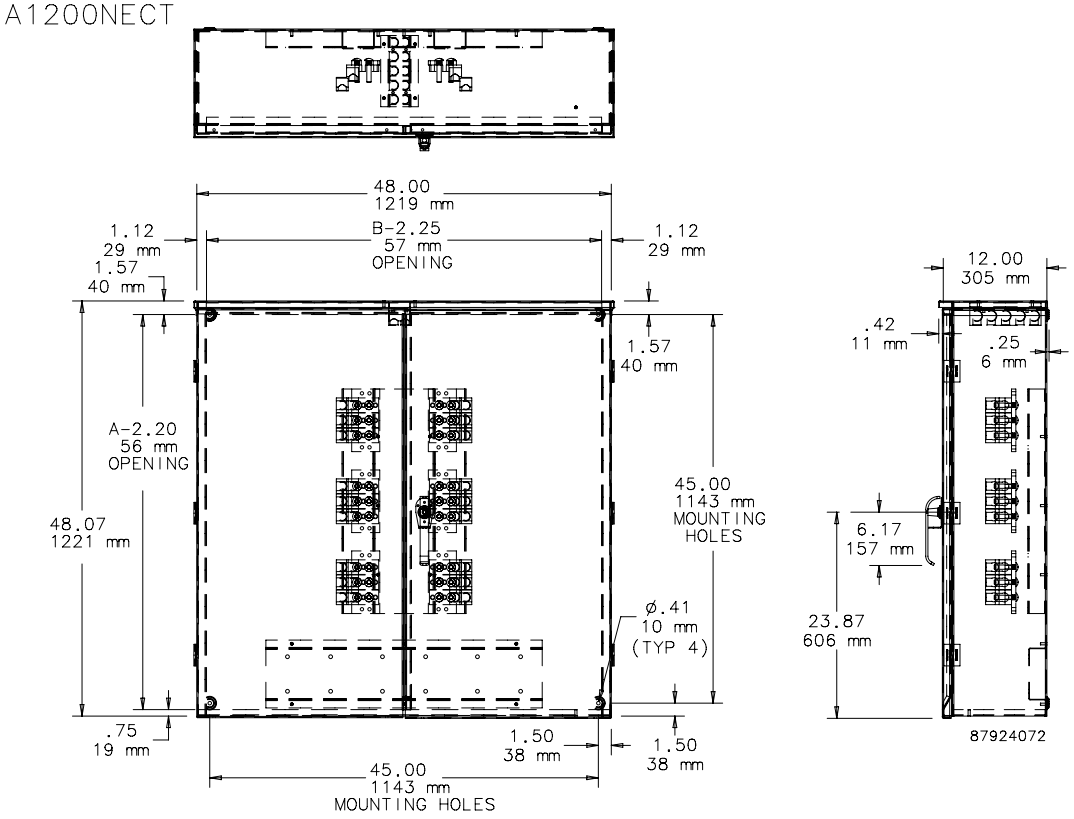
Standard Product

Catalog Number	AxBxC in./mm	Service	Mechanical Lug Capacity
A800NECT	36.00 x 36.00 x 12.00 914 x 914 x 305	208Y/120-400 and 800 Amp	Each Phase (3) 750MCM-1/0
A1200NECT	48.00 x 48.00 x 12.00 1219 x 1219 x 305	208Y/120-480Y/277-800 and 1200 Amp	Each Phase (6) 750MCM-1/0

A800NECT



A1200NECT



CURRENT TRANSFORMER, TYPE 3R, OVERVIEW

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 3R; File No. E27525, E27567
cUL Listed per CSA C22.2 No 94; File No. E27525, E27567

NEMA Type 3R
IEC 60529, IP32
Models with termination lugs also have UL414, File No. E240312

APPLICATION

These cabinets are available in a variety of sizes, models and instrument current transformer mounting methods to fit a wide range of applications.

FEATURES

- Drip-shield top and seam-free sides, front and back
- Welded-in collar studs supply provisions for mounting panel
- Provision for padlocking
- Ground lug on body
- Mounting holes on back of enclosure
- No gasketing or knockouts

SPECIFICATIONS

- 14 gauge galvanized steel enclosure body and cover
- Enclosure bottom of 16 gauge galvanized steel

FINISH

ANSI 61 gray polyester power paint inside and out over pretreated surfaces.

SCREW COVER WITH STEEL FOOT MOUNT PANEL

FEATURES

- Cover with handles and captivated screws
- 12 gauge plated mounting panel
- Panel studs allow for either vertical or horizontal panel mounting

BULLETIN: A90CT

Catalog Number	AxBxC in./mm	CT Panel D x E in./mm
A303012CTCJ	30.00 x 30.00 x 12.00 762 x 762 x 305	29.00 x 7.25 737 x 184
A363614CTCJ	36.00 x 36.00 x 14.00 914 x 914 x 356	35.00 x 7.25 889 x 184
A424214CTCJ	42.00 x 42.00 x 14.00 1067 x 1067 x 356	41.00 x 7.25 1041 x 184
A484814CTCJ	48.00 x 48.00 x 14.00 1219 x 1219 x 356	45.73 x 7.25 1162 x 184

LIFT-OFF COVER WITH WOOD PANEL

FEATURES

- Includes 3/4-in. plywood panel
- Screw cover with two padlock or sealing locations

BULLETIN: A90CT

Catalog Number	AxBxC in./mm	CT Panel D x E in./mm
A243212CTDP	24.00 x 32.00 x 12.00 610 x 813 x 305	21.00 x 21.00 533 x 533

HINGED SCREW COVER WITH STEEL PANEL

FEATURES

- Includes steel panel
- Center sealing locations

BULLETIN: A90CT

Catalog Number	AxBxC in./mm	CT Panel D x E in./mm
A243210CTC	24.00 x 32.00 x 10.00 610 x 813 x 254	21.00 x 29.25 533 x 743
A304410CTC	30.00 x 44.00 x 10.00 762 x 1118 x 254	27.00 x 41.25 686 x 1048

HINGED DOUBLE-DOOR WITH THREE-POINT LATCH AND WOOD PANEL

FEATURES

- Includes 3/4-in. plywood panel
- Three-point latch with seal or padlock

BULLETIN: A90CT

Catalog Number	AxBxC in./mm	CT Panel D x E in./mm
A404014CTDP	40.00 x 40.00 x 14.00 1016 x 1016 x 356	33.00 x 27.00 838 x 686

400- AND 800-AMP BAR-TYPE MOUNT WITH LINE/ LOAD LUGS

FEATURES

- Lift-off hinges
- Doorstop
- Line and load lugs
- Staple for seal or padlock
- Quarter-turn latch

BULLETIN: A90CT

Catalog Number	AxBxC in./mm	Phase	Wire Range per Phase
A400HCTB	36.07 x 30.00 x 11.00 916 x 762 x 279	3Ø	(1) 1/0-750MCM or (2) 1/0-250MCM
A800HCTB	48.07 x 30.00 x 11.00 1221 x 762 x 279	3Ø	(3) 1/0-750MCM or (6) 1/0-250MCM

VENTED DOUBLE DOOR

FEATURES

- Double door with 3-point latch that includes padlock feature
- Lift-off hinges for removable doors
- Ventilating louvers with insect barrier
- Welded 1.625 x 1.625 in. mounting channel

BULLETIN: ARCT

Catalog Number	AxBxC in./mm	Construction
A203012BGECT	20.00 x 30.00 x 12.00 508 x 762 x 305	Galvanized; spot-welded
A364214BGECT	36.00 x 42.00 x 14.00 914 x 1067 x 356	Aluminum; riveted
A423614BGECT	42.00 x 36.00 x 14.00 1067 x 914 x 356	Aluminum; riveted

nVent | HOFFMAN

TERMINAL BOX, TYPE 3R

INDUSTRY STANDARDS

UL 1773 Listed; Type 3R; File No. E256098
UL 50, 50E Listed; Type 3R; File No. E27525
cUL Listed per CSA C22.2 No 94; Type 3R; File No. E27525

NEMA/EEMAC Type 3R
IEC 60529, IP32

APPLICATION

These Terminal Boxes are wire-splice boxes for outdoor commercial and industrial applications that have a feeder tap to branch circuits. Boxes are available in three- or four-wire configurations in sizes up to 400 A.

FEATURES

- Drip-shield top and seam-free sides, front and back
- Removable cover
- Distribution lugs installed (see table for sizes)
- Hub opening at top with cover
- Provisions for padlocking or seal
- Knockouts on bottom of enclosure
- Grounding provisions

SPECIFICATIONS

- 16 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over galvanized steel.

ACCESSORIES

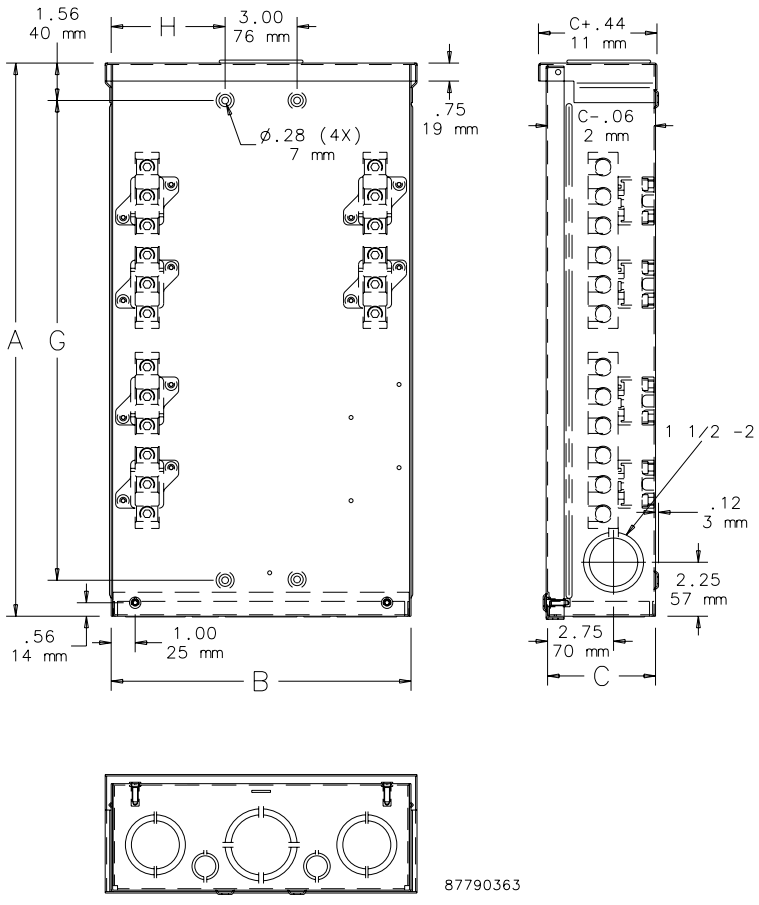
Touch-Up Paint, page 1379
Interchangeable Bolt-on Hub, page 827
Lug Assembly, page 827

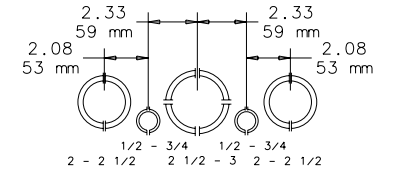
BULLETIN: S90B3

Standard Product

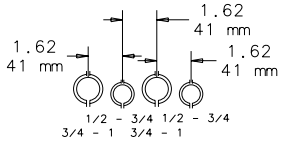
Catalog Number	AxBxC in./mm	Volts	Phase	Amps	Number of Bars	Wire Range	G in./mm	H in./mm
TB3R101	18.00 x 8.00 x 4.50 457 x 203 x 114	120/240	1Ø	100	3	(6) #14-2/0	15.00 381	3.88 99
TB3R103	18.00 x 8.00 x 4.50 457 x 203 x 114	600	3Ø	100	4	(6) #14-2/0	15.00 381	3.88 99
TB3R103240	18.00 x 10.75 x 4.50 457 x 273 x 114	120/240	3Ø	100	4	(6) #14-2/0	15.00 381	3.88 99
TB3R201	23.00 x 12.00 x 4.50 584 x 305 x 114	120/240	1Ø	200	3	(6) #6-350MCM	20.00 508	5.50 140
TB3R203	23.00 x 12.00 x 4.50 584 x 305 x 114	600	3Ø	200	4	(6) #6-350MCM	20.00 508	5.50 140
TB3R203240	23.00 x 14.00 x 4.50 584 x 356 x 114	120/240	3Ø	200	4	(6) #6-350MCM	20.00 508	5.50 140
TB3R401	27.00 x 16.00 x 5.00 686 x 406 x 127	120/240	1Ø	400	3	(6) #4-600MCM	24.00 610	8.75 222
TB3R403	27.00 x 16.00 x 5.00 686 x 406 x 127	600	3Ø	400	4	(6) #4-600MCM	24.00 610	8.75 222

TB3R401 is UL and cUL for copper conductor only





TB3R201, TB3R203, TB3R401, TB3R403



TB3R101, TB3R103

CONDUIT SIZES

Knockout Pattern
(from outside of box)

INTERCHANGEABLE BOLT-ON HUB

BULLETIN: S90B3

Catalog Number	Fits Conduit Size (in.)	Fits Conduit Size (mm)
TBHUB10	1.00	25
TBHUB12	1.25	32
TBHUB15	1.50	38
TBHUB20	2.00	51
TBHUB25	2.50	64

LUG ASSEMBLY

BULLETIN: S90B3

Catalog Number	Wire Range
TBL100	(6) #14-2/0
TBL200	(6) #6-350 MCM
TBL400	(6) #4-600 MCM

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UTILITY JUNCTION (UJ) CABINETS

INDUSTRY STANDARDS

ANSI C57.12.28 Pad-Mounted Equipment Enclosure Integrity
RUS Approved

APPLICATION

Enclosures provide sectionalizing and tap-point functionality for underground distribution systems. Available in a wide variety of single- and three-phase models, these enclosures are rated 15 and 25 KV at 200 or 600 amperes and will accept two-, three- and four-way junctions from all manufacturers.

FEATURES

- Recessed stainless steel penta-head bolt with padlock security system standard on all models
- 5/8-11 threaded lifting provisions
- Wind stop standard on all models (two stops provided if B dimension is greater than or equal to 42-in.)
- Ground nut for each phase
- Full range of modifications available on request

SPECIFICATIONS

- Welded 12 gauge steel or .125 aluminum construction (stainless steel available as a modification)
- When ordering UJ cabinets, customer may specify multiple mounting panel options, including mild steel, galvanized and stainless steel (panels must be purchased separately)

FINISH

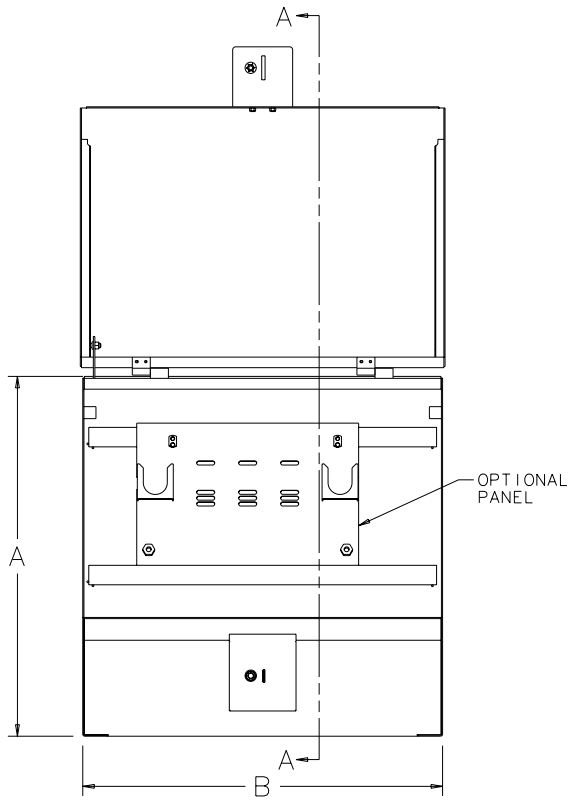
- Munsell Green 7GY3.29/1.5 polyester powder paint finish inside and out over pretreated surfaces
- Mounting panels have white polyester powder paint over pretreated surfaces

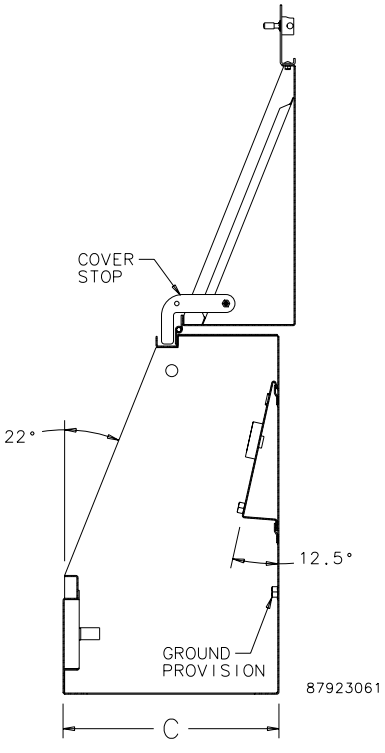
BULLETIN: UJ

Standard Product **Enclosures**

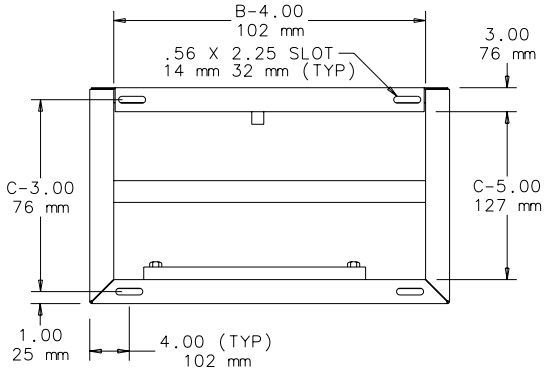
Catalog Number	AxBxC in.	AxBxC mm	Material	Recommended Panel Qty.	Recommended Panel Style
UJ303018M2	30.00 x 30.00 x 18.00	762 x 762 x 457	Steel	1	B or D
UJ303019M2	30.00 x 30.00 x 19.00	762 x 762 x 483	Steel	1	B or D
UJ303023M2	30.00 x 30.00 x 23.00	762 x 762 x 584	Steel	1	B or D
UJ303024M2	30.00 x 30.00 x 24.00	762 x 762 x 610	Steel	1	B or D
UJ304824M2	30.00 x 48.00 x 24.00	762 x 1219 x 610	Steel	2	B or D
UJ306018M2	30.00 x 30.00 x 18.00	762 x 762 x 457	Steel	3	A or C
UJ306424M2	30.00 x 64.00 x 24.00	762 x 1626 x 610	Steel	1, 2	A or C, B or D
UJ306623M2	30.00 x 66.00 x 23.00	762 x 1676 x 584	Steel	1, 2	A or C, B or D
UJ306724M2	30.00 x 67.00 x 24.00	762 x 1702 x 610	Steel	3	B or D
UJ307424M2	30.00 x 74.00 x 24.00	762 x 1880 x 610	Steel	3	B or D
UJ307622M2	30.00 x 76.00 x 22.00	762 x 1930 x 559	Steel	3	B or D
UJ482618M2	48.00 x 26.00 x 18.00	1219 x 660 x 457	Steel	1	B or D
UJ303018A	30.00 x 30.00 x 18.00	762 x 762 x 457	Aluminum	1	B or D
UJ306018A	30.00 x 60.00 x 18.00	762 x 1524 x 457	Aluminum	3	A or C
UJ306723A	30.00 x 67.00 x 23.00	762 x 1702 x 584	Aluminum	3	B or D

Single-Phase Enclosure

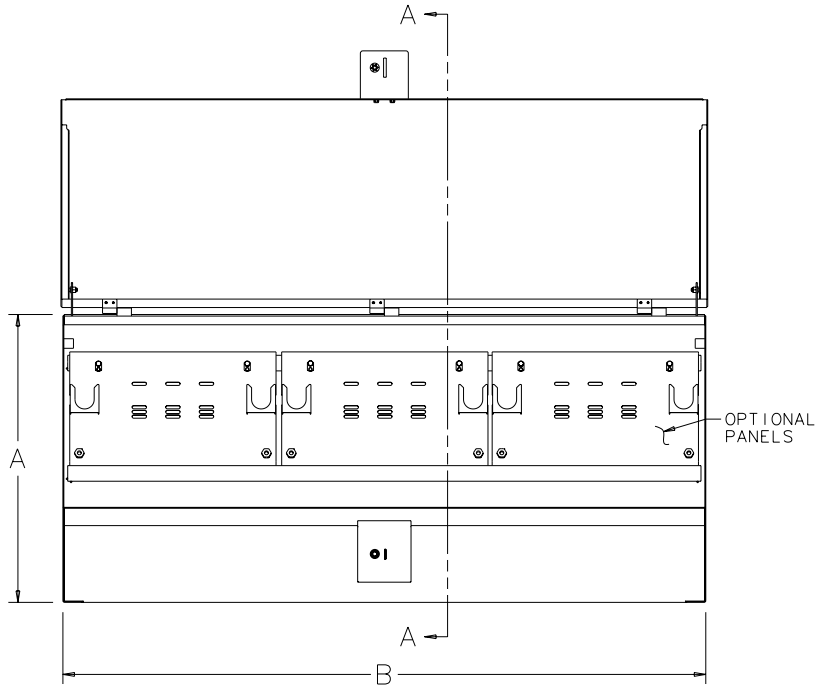


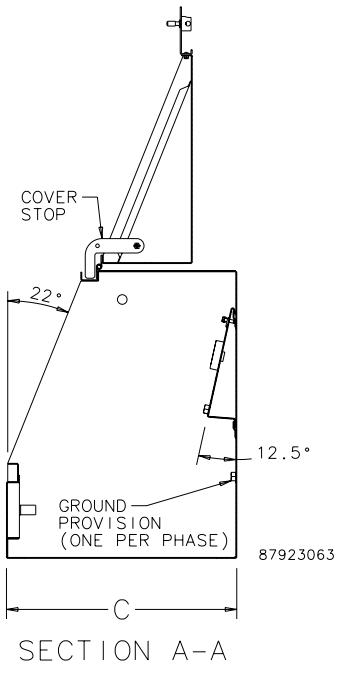


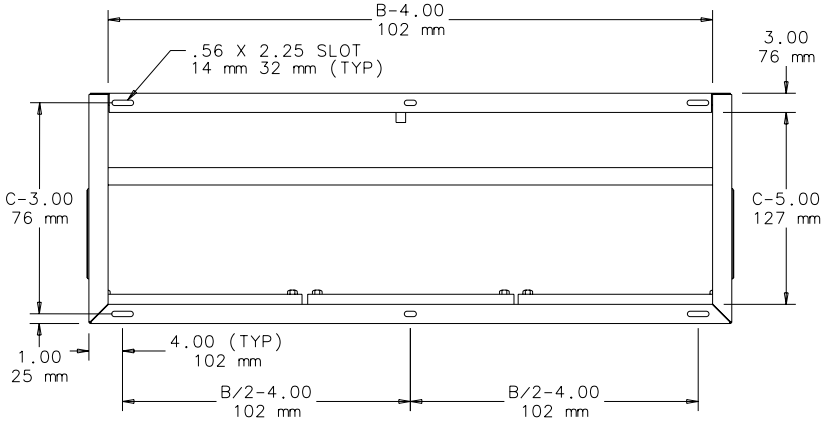
SECTION A-A



Three-Phase Enclosure

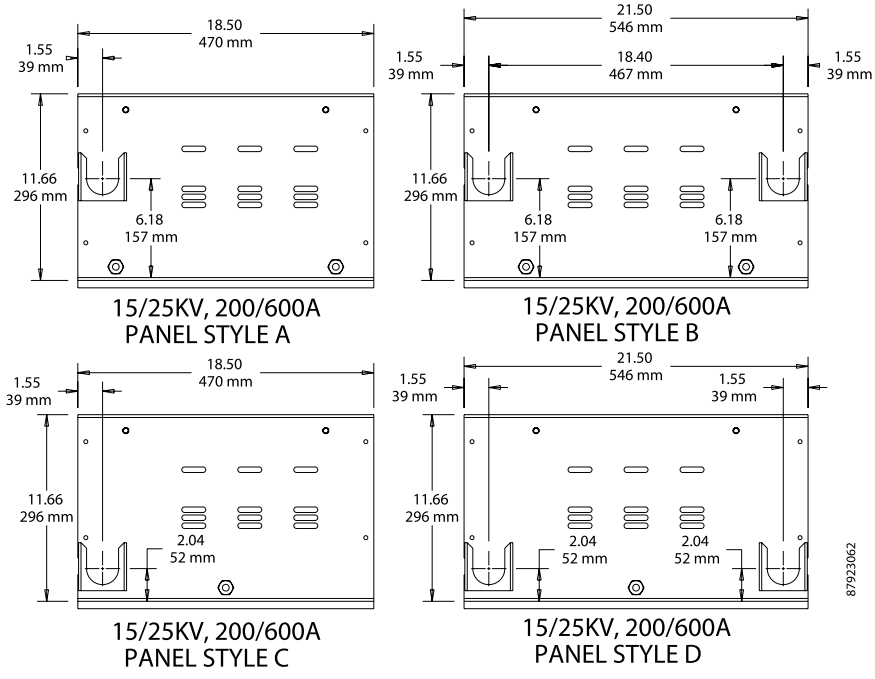






Standard Panels

Catalog Number	AxBxC in.	AxBxC mm	Panel Material	Style	No. of Parking Stands
UJP1M	11.66 x 18.50	296 x 470	Mild Steel	A	1
UJP2M	11.66 x 21.50	296 x 546	Mild Steel	B	2
UJP1MOFF	11.66 x 18.50	296 x 470	Mild Steel	C	1
UJP2MOFF	11.66 x 21.50	296 x 546	Mild Steel	D	2
UJP1G	11.66 x 18.50	296 x 470	Galvanneal	A	1
UJP2G	11.66 x 21.50	296 x 546	Galvanneal	B	2
UJP1GOFF	11.66 x 18.50	296 x 470	Galvanneal	C	1
UJP2GOFF	11.66 x 21.50	296 x 546	Galvanneal	D	2
UJP1SS	11.66 x 18.50	296 x 470	Stainless Steel	A	1
UJP2SS	11.66 x 21.50	296 x 546	Stainless Steel	B	2
UJP1SSOFF	11.66 x 18.50	296 x 470	Stainless Steel	C	1
UJP2SSOFF	11.66 x 21.50	296 x 546	Stainless Steel	D	2



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METERING, TYPE 1

INDUSTRY STANDARDS

CSA File Number 42184: Type 1
NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

This enclosure houses metering transformers and instrument assemblies in indoor applications. HQ models meet Hydro-Québec requirements. It includes one prepunched accessory, one potential transformer and one current transformer panel, and a four-lug splitter block.

FEATURES

- Gland plates on top of two-door enclosure for meter connection
- Hinged door with pull latch and provision for padlocking
- Mounting holes in back

SPECIFICATIONS

- 14 or 16 gauge steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out

ACCESSORIES

Touch-Up Paint, page 1379

BULLETIN: M1

Standard Product **Metering Cabinets**

Catalog Number	AxBxC in.	AxBxC mm	Panel Dimensions D x E (in.)	Panel Dimension D x E (mm)	Door
AMC271310R	27.00 x 13.00 x 10.00	686 x 330 x 254	22.75 x 8.75	578 x 222	Single
AMC302010R	30.00 x 20.00 x 10.00	762 x 508 x 254	25.75 x 15.75	654 x 400	Single
AMC303010R	30.00 x 30.00 x 10.00	762 x 762 x 254	25.75 x 25.75	654 x 654	Double
AMC363612R	36.00 x 36.00 x 12.00	914 x 914 x 305	31.75 x 31.75	806 x 806	Double
AMC484812R	48.00 x 48.00 x 12.00	1219 x 1219 x 305	43.75 x 43.75	1111 x 1111	Double

Standard Product **UG-Series Cabinets**

Catalog Number	AxBxC in.	AxBxC mm	Door
AMC202010UG	20.00 x 20.00 x 10.00	508 x 508 x 254	Single
AMC303010UG	30.00 x 30.00 x 10.00	762 x 762 x 254	Double
AMC363612UG	36.00 x 36.00 x 12.00	914 x 914 x 305	Double
AMC484812UG	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Double

Panels included.

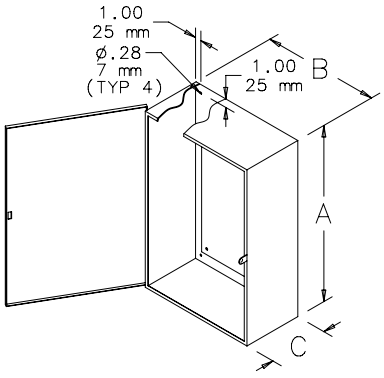
Standard Product **Metering Cabinets Meeting Hydro-Québec Requirements**

Catalog Number	AxBxC in.	AxBxC mm	Door
AMC303010HQ	30.00 x 30.00 x 10.00	762 x 762 x 254	Double
AMC363612HQ	36.00 x 36.00 x 12.00	914 x 914 x 305	Double
AMC484812HQ	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Double

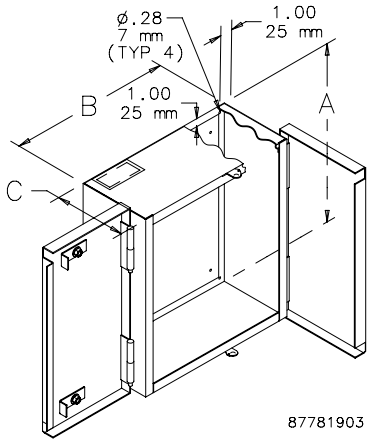
Panels Included with Hydro-Québec Cutouts

Catalog Number	Panel with Cutouts for	D (in.)	D (mm)	E (in.)	E (mm)
A32N34HQ	Current Transformer	12.76	324	13.39	340
A62N17HQ	Accessory	24.69	627	7.01	178
A65N38HQ	Main and Potential Transformer	25.59	650	15.00	381

Single-Door Enclosures



Two-Door Enclosures



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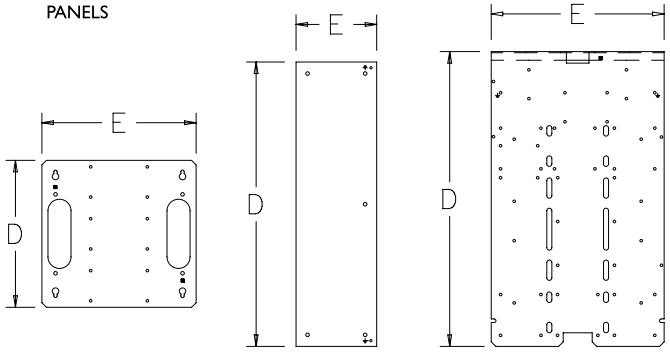
PANELS



CURRENT TRANSFORMER

ACCESSORY

POTENTIAL TRANSFORMER

87781904

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SPLITTER TROUGH, TYPE 1

INDUSTRY STANDARDS

CSA C22.2 No. 76, File No. 42184: Type 1
NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

With pre-installed terminal blocks for three- and four-wire power distribution systems, this trough splits feeder circuit conductors into multiple branch circuit conductors.

FEATURES

- Various size knockouts on each side
- Hinged covers
- Mounting holes in back
- Includes single-point ground lug
- Ground Splitter (ground bar) accessory available

SPECIFICATIONS

- 16 or 14 gauge steel

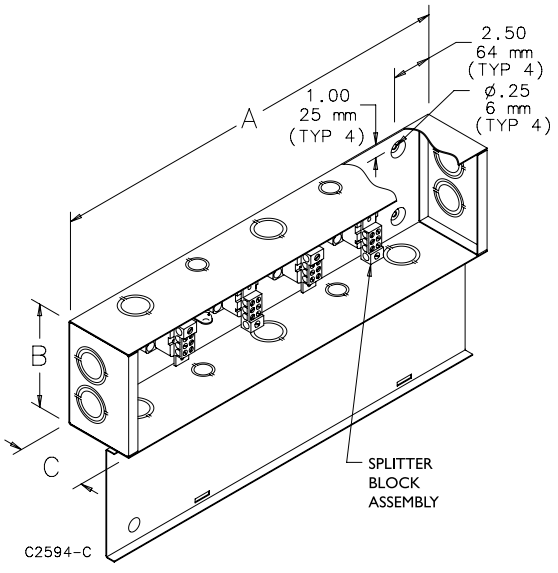
FINISH

ANSI 61 gray polyester powder paint finish inside and out

ACCESSORIES

Splitter Trough Block Assemblies, page 837
Ground Splitter Bar, page 837
Touch-Up Paint, page 1379

BULLETIN: S90T



Knockout Size and Spacing

Amps Rating	Qty.	End Knockout Size	Spacing (in.)	Spacing (mm)	Side Knockout Size and Position	Spacing (in.)	Spacing (mm)
85	2	1-3/4 - 2	2.75	70	Alternating 1/2 - 3/4 and 1 - 1-3/4	4.50	114
125	2	1-3/4 - 2	2.75	70	Alternating 1/2 - 3/4 and 1 - 1-3/4	4.50	114
225	2	2-1/2 - 3	4.06	103	Alternating 1/2 - 3/4 and 1 - 1-3/4	4.50	114
400	2	3 - 3-1/2	4.91	125	Alternating 1/2 - 3/4 and 1 - 1-3/4	4.50	114
600	2	3 - 3-1/2	4.91	125	Alternating 1/2 - 3/4 and 1 - 1-3/4	4.50	114

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Standard Product **Type 1 Splitter Trough**

Catalog Number	in.	mm	Number of Wires	Main Lugs Amps CU	Main Lugs Wire Size Range	Main Lugs Qty.	Branch Lugs Amps CU	Branch Lugs Wire Size Range	Branch Lugs Qty.
AST283R	24.00 x 6.00 x 4.50	610 x 152 x 114	3	85	14-1	1	55	14-6	6
AST284R	24.00 x 6.00 x 4.50	610 x 152 x 114	4	85	14-1	1	55	14-6	6
AST383R	36.00 x 6.00 x 4.50	914 x 152 x 114	3	85	14-1	1	55	14-6	6
AST384R	36.00 x 6.00 x 4.50	914 x 152 x 114	4	85	14-1	1	55	14-6	6
AST483R	48.00 x 6.00 x 4.50	1219 x 152 x 114	3	85	14-1	1	55	14-6	6
AST484R	48.00 x 6.00 x 4.50	1219 x 152 x 114	4	85	14-1	1	55	14-6	6
AST2123R	24.00 x 6.00 x 4.50	610 x 152 x 114	3	125	14-1/0	1	110	14-2	6
AST2124R	24.00 x 6.00 x 4.50	610 x 152 x 114	4	125	14-1/0	1	110	14-2	6
AST3123R	36.00 x 6.00 x 4.50	914 x 152 x 114	3	125	14-1/0	1	110	14-2	6
AST3124R	36.00 x 6.00 x 4.50	914 x 152 x 114	4	125	14-1/0	1	110	14-2	6
AST4123R	48.00 x 6.00 x 4.50	1219 x 152 x 114	3	125	14-1/0	1	110	14-2	6
AST4124R	48.00 x 6.00 x 4.50	1219 x 152 x 114	4	125	14-1/0	1	110	14-2	6
AST3223R	36.00 x 8.25 x 4.50	914 x 210 x 114	3	225	6-300MCM	1	150	14-2/0	6
AST3224R	36.00 x 8.25 x 4.50	914 x 210 x 114	4	225	6-300MCM	1	150	14-2/0	6
AST4223R	48.00 x 8.25 x 4.50	1219 x 210 x 114	3	225	6-300MCM	1	150	14-2/0	6
AST4224R	48.00 x 8.25 x 4.50	1219 x 210 x 114	4	225	6-300MCM	1	150	14-2/0	6
AST5223R	60.00 x 8.25 x 4.50	1524 x 210 x 114	3	225	6-300MCM	1	150	14-2/0	6
AST5224R	60.00 x 8.25 x 4.50	1524 x 210 x 114	4	225	6-300MCM	1	150	14-2/0	6
AST6223R	72.00 x 8.25 x 4.50	1829 x 210 x 114	3	225	6-300MCM	1	150	14-2/0	6
AST6224R	72.00 x 8.25 x 4.50	1829 x 210 x 114	4	225	6-300MCM	1	150	14-2/0	6
AST3403R	36.00 x 10.00 x 6.00	914 x 254 x 152	3	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST4403R	48.00 x 10.00 x 6.00	1219 x 254 x 152	3	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST4404R	48.00 x 10.00 x 6.00	1219 x 254 x 152	4	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST5403R	60.00 x 10.00 x 6.00	1524 x 254 x 152	3	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST5404R	60.00 x 10.00 x 6.00	1524 x 254 x 152	4	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST6403R	72.00 x 10.00 x 6.00	1829 x 254 x 152	3	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST6404R	72.00 x 10.00 x 6.00	1829 x 254 x 152	4	400	1/0-250MCM: 4-600MCM	2:1	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST4603R	48.00 x 11.00 x 6.50	1219 x 279 x 165	3	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST4604R	48.00 x 11.00 x 6.50	1219 x 279 x 165	4	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST5603R	60.00 x 11.00 x 6.50	1524 x 279 x 165	3	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST5604R	60.00 x 11.00 x 6.50	1524 x 279 x 165	4	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST6603R	72.00 x 11.00 x 6.50	1829 x 279 x 165	3	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]
AST6604R	72.00 x 11.00 x 6.50	1829 x 279 x 165	4	600	1/0-250MCM: 4-600MCM	4:2	175	6-4/0 AND 14-3/0[a]	4 and 2[a]

[a]Six total branch lugs: (4) 6-4/0 and (2) 14-3/0

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SPLITTER BOX, TYPE 1

SPECIFICATIONS

- 16 or 14 gauge steel

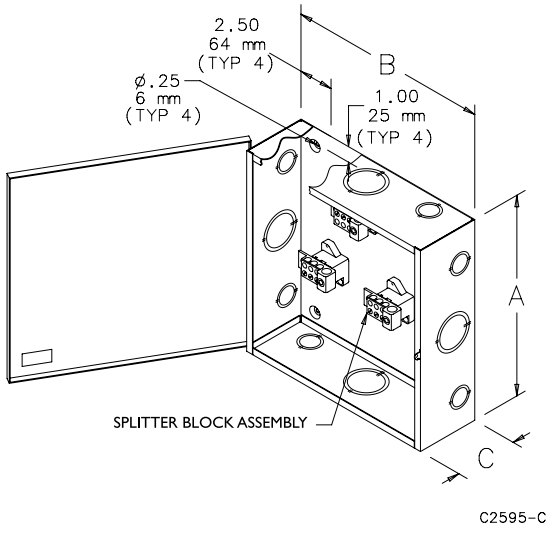
FINISH

ANSI 61 gray polyester powder paint finish inside and out

ACCESSORIES

Splitter Box Block Assemblies, page 837
Ground Splitter Bar, page 837
Touch-Up Paint, page 1379

BULLETIN: S90B



INDUSTRY STANDARDS

CSA C22.2 No. 76, File No. 42184: Type 1
NEMA/EEMAC Type 1
IEC 60529, IP30

APPLICATION

This box splits feeder circuit conductors into multiple branch circuit conductors and comes with pre-installed terminal blocks for three- and four-wire power distribution systems.

FEATURES

- Various numbers and sizes of combination knockouts are provided on all four sides: see Knockout Size and Spacing Table
- Hinged covers
- Mounting holes in back
- Includes single point ground lug
- Ground Splitter (ground bar) accessory available

Standard Product **Type 1 Splitter Box, 600 volt**

Catalog Number	AxBxC in.	AxBxC mm	Number of Wires	Main Lugs Amps CU	Main Lugs Wire Size Range	Main Lugs Qty.	Branch Lugs Amps CU	Branch Lugs Wire Size Range	Branch Lugs Qty.
ASB83R	12.00 x 12.00 x 4.00	305 x 305 x 102	3	85	14-1	1	55	14-6	3
ASB84R	12.00 x 12.00 x 4.00	305 x 305 x 102	4	85	14-1	1	55	14-6	3
ASB123R	12.00 x 12.00 x 4.00	305 x 305 x 102	3	125	14-2/0	1	110	14-2/0	3
ASB124R	12.00 x 12.00 x 4.00	305 x 305 x 102	4	125	14-2/0	1	110	14-2/0	3
ASB223R	16.00 x 16.00 x 5.00	406 x 406 x 127	3	225	6-300MCM	1	175	14-2/0	3
ASB224R	16.00 x 16.00 x 5.00	406 x 406 x 127	4	225	6-300MCM	1	175	14-2/0	3
ASB403R	22.00 x 22.00 x 6.00	559 x 559 x 152	3	400	4-600MCM	2	285	4-600MCM	2
ASB404R	22.00 x 22.00 x 6.00	559 x 559 x 152	4	400	4-600MCM	2	285	4-600MCM	2

Knockout Size and Spacing from Outside Enclosure

Amps Rating	Qty.	Knockout Size	Spacing (in.)	Spacing (mm)
85	21	1-3/4 - 2	2.00	51
		2 - 2-1/2	4.00	102
125	21	1-3/4 - 2	2.00	51
		2 - 2-1/2	4.00	102
225	21	1-3/4 - 2	2.00	51
		2-1/2 - 3	6.00	152
400	21	2 - 2-1/2	2.00	51
		3 - 3-1/2	6.00	152

Knockouts viewed from outside enclosure. Pattern and sizes same on all four sides.

SPLITTER BOX BLOCK ASSEMBLIES

INDUSTRY STANDARDS
CSA Certified

BULLETIN: S90Y

Catalog Number	Main Amps	Main Lug Qty.	Main Lug Wire Size Range	Branch Amps	Branch Lug Qty.	Branch Lug Wire Size Range
ASBB85	85	1	14-1	40	3	14-6
ASBB125	125	1	14-2/0	85	3	14-2/0
ASBB225	225	1	6-300MCM	125	3	14-2/0
ASBB400R	400	2	4-600MCM	225	2	4-600MCM

SPLITTER TROUGH BLOCK ASSEMBLIES

INDUSTRY STANDARDS
CSA Certified

APPLICATION
Splitter Block Assemblies tap feeder branch circuits in splitter boxes and troughs. Each 600-volt block includes a main lug and branch lugs, together with copper/aluminum (CU/AL) connectors secured to insulators.

BULLETIN: S90Y

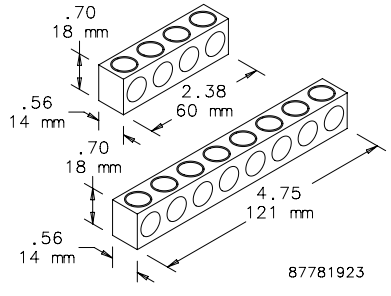
Catalog Number	Main Amps	Main Lug Qty.	Main Lug Wire Size Range	Branch Amps	Branch Lug Qty.	Branch Lug Wire Size Range
ASTB85	85	1	14-1	40	6	14-6
ASTB125	125	1	14-1/0	85	6	14-2
ASTB225	225	1	6-300MCM	125	6	14-2/0
ASTB400	400	1:2	4-600MCM:1/0-250	125	4 + 2[A]	6-4/0 and 14-3/0[A]
ASTB600	600	2:4	4-600MCM:1/0-250	125	4 + 2[A]	6-4/0 and 14-3/0[A]

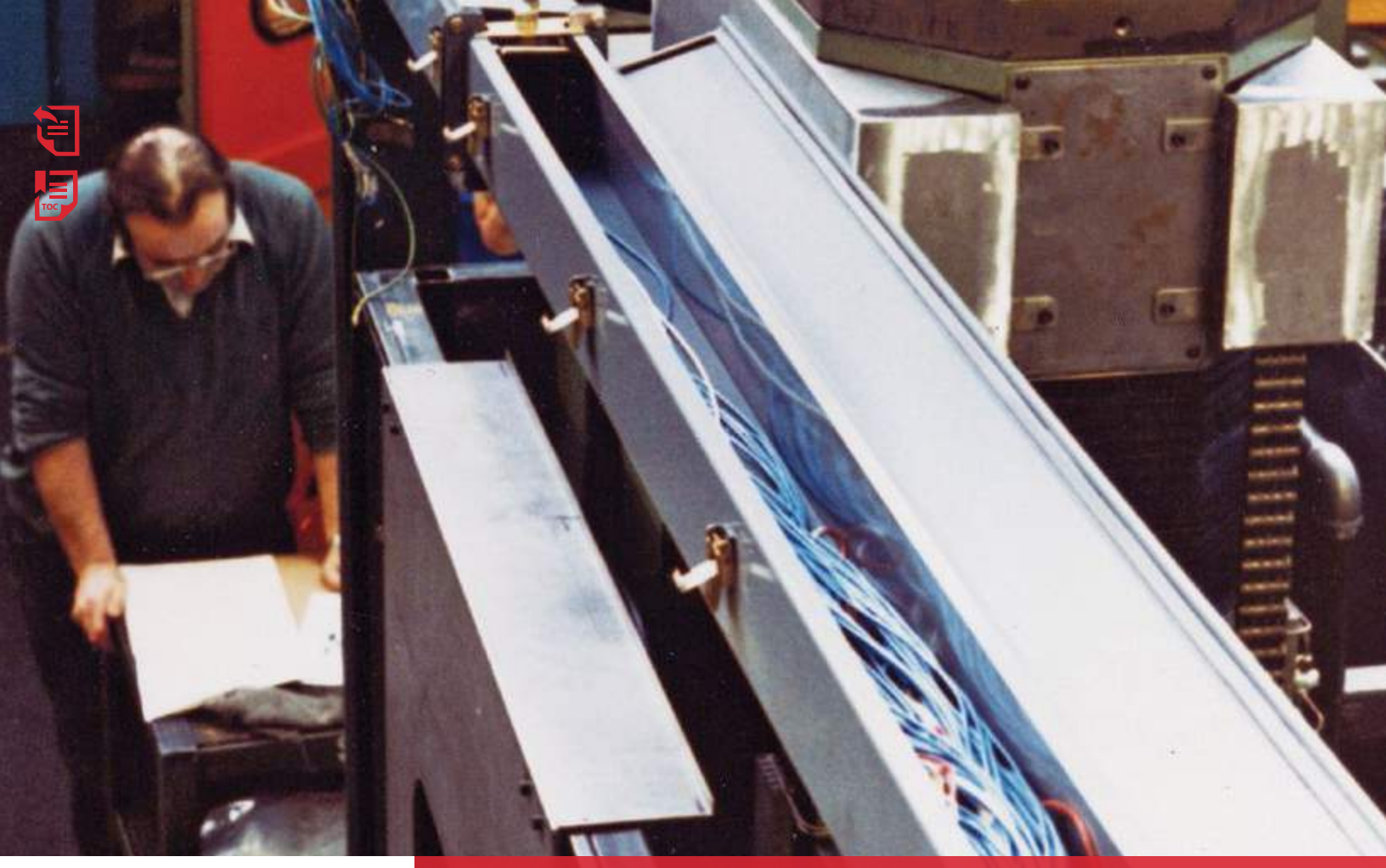
[A] Six total branch lugs: (4) 6-4/0 and (2) 14-3/0

GROUND SPLITTER BAR

BULLETIN: S90Y

Catalog Number	Depth in./mm	Lug Qty.	Wire Size Range	Application
ASG4	2.38 60	4	14-2/0	Splitter Box or Splitter Trough
ASG8	4.75 121	8	14-2/0	Splitter Trough





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CHAPTER 9
WIRE AND CABLE MANAGEMENT

WIRING TROUGH, NEMA TYPE 1

Using a unique joining method that mechanically locks components together without fasteners or heat, this wiring trough ships completely assembled to save both time and labor. Designed for indoor use, this trough is available in various lengths.

SCREW COVER WIRING TROUGH, NEMA TYPE 4X

These type 4X screw-cover troughs provide a simple, cost-effective solution to quickly meet your project requirements in multiple applications that require corrosion protection.

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LAY-IN GALVANIZED WIREWAY, NEMA TYPE 1

APPLICATION

This galvanized wireway features an open design on one side so wires and cables can be laid in safely along the entire run without pulling. A variety of lengths and fittings accommodate design requirements.

FEATURES

- Keyhole screw slots on flat covers
- Open top assembly
- Available with or without knockouts on wireway sides

SPECIFICATIONS

- 16 or 14 gauge galvanized steel covers and bodies

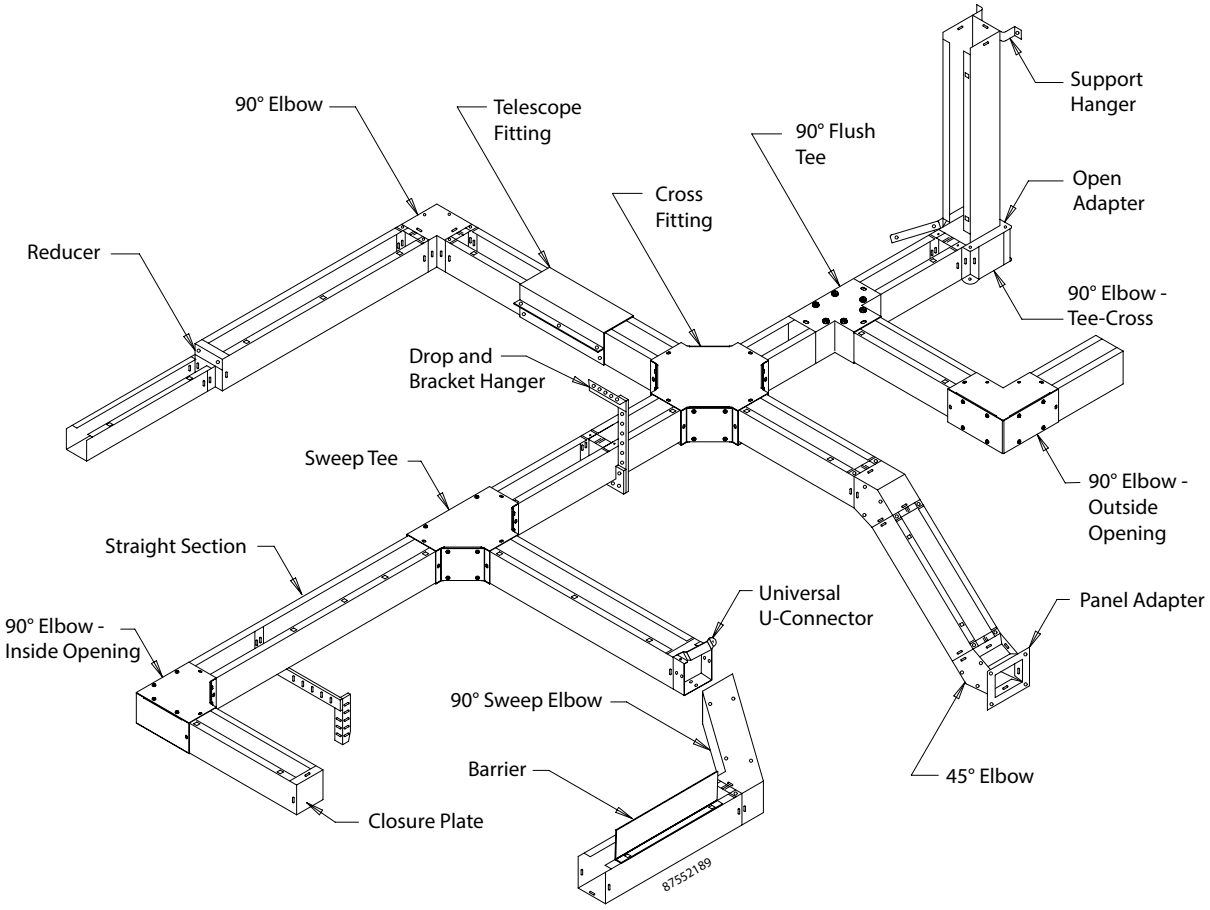
FINISH

Unpainted galvanized steel

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524
cUL Listed per CSA C22.2 No. 26; File No. E27524

NEMA/EEMAC: Type 1
IEC 60529, IP30



Standard Product **Selection Matrix**

Description	2.50 x 2.50 in. (64 x 64 mm)	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)	10.00 x 10.00 in. (254 x 254 mm)	12.00 x 12.00 in. (305 x 305 mm)
12.00-in. (305-mm) Straight Section with knockouts	—	F44T112GVWK	F66T112GVWK	F88T112GVWK	—	—
12.00-in. (305-mm) Straight Section without knockouts	F22T112GV	F44T112GV	F66T112GV	F88T112GV	F1010T112GV	F1212T112GV
18.00-in. (455-mm) Straight Section without knockouts	—	F44T118GV	F66T118GV	F88T118GV	—	—
24.00-in. (610-mm) Straight Section with knockouts	F22T124GVWK	F44T124GVWK	F66T124GVWK	F88T124GVWK	—	—
24.00-in. (610-mm) Straight Section without knockouts	F22T124GV	F44T124GV	F66T124GV	F88T124GV	F1010T124GV	F1212T124GV
24.00-in. (610-mm) Straight Section without knockouts	F22T136GVWK	F44T136GVWK	F66T136GVWK	F88T136GVWK	—	—
36.00-in. (914-mm) Straight Section without knockouts	F22T136GV	F44T136GV	F66T136GV	F88T136GV	F1010T136GV	F1212T136GV
48.00-in. (1219-mm) Straight Section with knockouts	—	F44T148GVWK	F66T148GVWK	F88T148GVWK	—	—
48.00-in. (1219-mm) Straight Section without knockouts	F22T148GV	F44T148GV	F66T148GV	F88T148GV	F1010T148GV	F1212T148GV
60.00-in. (1524-mm) Straight Section with knockouts	F22T160GVWK	F44T160GVWK	F66T160GVWK	F88T160GVWK	—	—
60.00-in. (1524-mm) StraightS ection without knockouts	F22T160GV	F44T160GV	F66T160GV	F88T160GV	F1010T160GV	F1212T160GV
72.00-in. (1829-mm) Straight Section with knockouts	—	F44T172GVWK	F66T172GVWK	F88T172GVWK	—	—
72.00-in. (1829-mm) Straight Section without knockouts	—	F44T172GV	F66T172GV	F88T172GV	F1010T172GV	—
120.00-in. (3048-mm) Straight Section with knockouts	F22T1120GVWK	F44T1120GVWK	F66T1120GVWK	F88T1120GVWK	—	—
120.00-in. (3048-mm) Straight Section without knockouts	F22T1120GV	F44T1120GV	F44T1120GV	F88T1120GV	F1010T1120GV	F1212T1120GV
90° Flush Tee	F22GTGV	F44GTGV	F66GTGV	F88GTGV	F1010GTGV	F1212GTGV
Sweep Tee	F22TGV	F44TGV	F66TGV	F88TGV	F1010TGV	F1212TGV
Cross Fitting	F22XGV	F44XGV	F66XGV	F88XGV	F1010XGV	F1212XGV
90° Sweep Elbow	F2290SEGV	F4490SEGV	F6690SEGV	F8890SEGV	F101090SEGV	F121290SEGV
90° Elbow-Tee-Cross	F2290TXGV	F4490TXGV	F6690TXGV	F8890TXGV	F101090TXGV	F121290TXGV
90° Elbow	F2290EGV	F4490EGV	F6690EGV	F8890EGV	F101090EGV	F121290EGV
90° Elbow Outside Opening	F2290EINGV	F4490EINGV	F6690EINGV	F8890EINGV	F101090EINGV	F121290EINGV
90° Elbow Outside Opening	F2290EOUTGV	F4490EOUTGV	F6690EOUTGV	F8890EOUTGV	F101090EOUTGV	F121290EOUTGV
45° Elbow	F2245EGV	F4445EGV	F6645EGV	F8845EGV	F101045EGV	F121245EGV
Telescope Fitting[a]	F22GAGV	F44GAGV	F66GAGV	F88GAGV	F1010GAGV	F1212GAGV
Panel Adapter	F22GPAGV	F44GPAGV	F66GPAGV	F88GPAGV	F1010GPAGV	F1212GPAGV
Closure Plate with knockouts	F22GCPGV	F44GCPGV	F66GCPGV	F88GCPGV	—	F1212GCPGV
Closure Plate without knockouts	F22GCPNKGV	F44GCPNKGV	F66GCPNKGV	F88GCPNKGV	F1010GCPNKGV	F1212GCPNKGV
Reducer	—	F44G22R	F66G44R	F88G66R	F1010G88R	F1212G88R 1212G1010R
Drop and Bracket Hanger	F22GDB	F44GDB	F66GDB	F88GDB	F1010GDB	F1212GDB
Support Hanger	F22GSHGV	F44GSHGV	F66GSHGV	F88GSHGV	F1010GSHGV	F1212GSHGV
Universal U-Connector	F22GUCGV	F44GUCGV	F66GUCGV	F88GUCGV	F1010GUCGV	F1212GUCGV

[a]Not UL/cUL listed.

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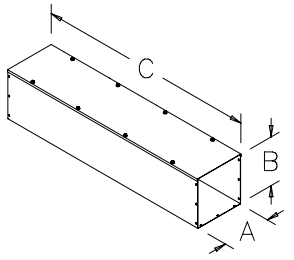
STRAIGHT SECTION



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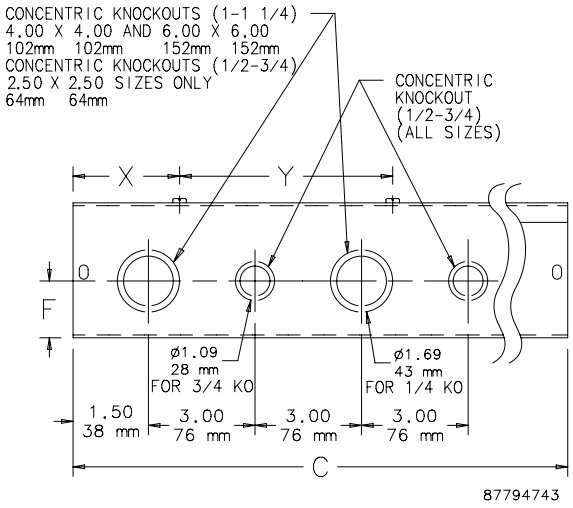
Available in lengths from 12.00 in. (305 mm) to 120.00 in. (3048 mm), with or without knockouts.

BULLETIN: F40G



PATTERN REPEATS EVERY 12.00 305 mm

Straight Sections

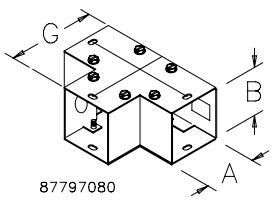
Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F22T112GVWK	2.50 x 2.50 x 12.00	64 x 64 x 305	8	—	1.06	27	3.00	76	6.00	152
F22T112GV	2.50 x 2.50 x 12.00	64 x 64 x 305	—	—	—	—	—	—	—	—
F22T124GVWK	2.50 x 2.50 x 24.00	64 x 64 x 610	16	—	1.06	27	6.00	152	12.00	305
F22T124GV	2.50 x 2.50 x 24.00	64 x 64 x 610	—	—	—	—	—	—	—	—
F22T136GVWK	2.50 x 2.50 x 36.00	64 x 64 x 914	24	—	1.06	27	6.00	152	12.00	305
F22T136GV	2.50 x 2.50 x 36.00	64 x 64 x 914	—	—	—	—	—	—	—	—
F22T148GV	2.50 x 2.50 x 48.00	64 x 64 x 1219	—	—	—	—	—	—	—	—
F22T160GVWK	2.50 x 2.50 x 60.00	64 x 64 x 1524	40	—	1.06	27	6.00	152	12.00	305
F22T160GV	2.50 x 2.50 x 60.00	64 x 64 x 1524	—	—	—	—	—	—	—	—
F22T1120GVWK	2.50 x 2.50 x 120.00	64 x 64 x 3048	80	—	1.06	27	6.00	152	12.00	305
F22T1120GV	2.50 x 2.50 x 120.00	64 x 64 x 3048	—	—	—	—	—	—	—	—
F44T112GVWK	4.00 x 4.00 x 12.00	102 x 102 x 305	4	4	1.62	41	3.00	76	6.00	152
F44T112GV	4.00 x 4.00 x 12.00	102 x 102 x 305	—	—	—	—	—	—	—	—
F44T118GV	4.00 x 4.00 x 18.00	102 x 102 x 457	—	—	—	—	—	—	—	—
F44T124GVWK	4.00 x 4.00 x 24.00	102 x 102 x 610	8	8	1.62	41	6.00	152	12.00	305
F44T124GV	4.00 x 4.00 x 24.00	102 x 102 x 610	—	—	—	—	—	—	—	—
F44T136GVWK	4.00 x 4.00 x 36.00	102 x 102 x 914	12	12	1.62	41	6.00	152	12.00	305
F44T136GV	4.00 x 4.00 x 36.00	102 x 102 x 914	—	—	—	—	—	—	—	—
F44T148GVWK	4.00 x 4.00 x 48.00	102 x 102 x 1219	16	16	1.62	41	6.00	152	12.00	305
F44T148GV	4.00 x 4.00 x 48.00	102 x 102 x 1219	—	—	—	—	—	—	—	—
F44T160GVWK	4.00 x 4.00 x 60.00	102 x 102 x 1524	20	20	1.62	41	6.00	152	12.00	305
F44T160GV	4.00 x 4.00 x 60.00	102 x 102 x 1524	—	—	—	—	—	—	—	—
F44T172GVWK	4.00 x 4.00 x 72.00	102 x 102 x 1829	24	24	1.62	41	6.00	152	12.00	305
F44T172GV	4.00 x 4.00 x 72.00	102 x 102 x 1829	—	—	—	—	—	—	—	—
F44T1120GVWK	4.00 x 4.00 x 120.00	102 x 102 x 3048	40	40	1.62	41	6.00	152	12.00	305
F44T1120GV	4.00 x 4.00 x 120.00	102 x 102 x 3048	—	—	—	—	—	—	—	—
F66T112GVWK	6.00 x 6.00 x 12.00	152 x 152 x 305	4	4	1.62	41	6.00	152	12.00	305
F66T112GV	6.00 x 6.00 x 12.00	152 x 152 x 305	—	—	—	—	—	—	—	—
F66T118GV	6.00 x 6.00 x 18.00	152 x 152 x 457	—	—	—	—	—	—	—	—
F66T124GVWK	6.00 x 6.00 x 24.00	152 x 152 x 610	8	8	1.62	41	6.00	152	12.00	305
F66T124GV	6.00 x 6.00 x 24.00	152 x 152 x 610	—	—	—	—	—	—	—	—
F66T136GVWK	6.00 x 6.00 x 36.00	152 x 152 x 914	12	12	1.62	41	6.00	152	12.00	305
F66T136GV	6.00 x 6.00 x 36.00	152 x 152 x 914	—	—	—	—	—	—	—	—
F66T148GVWK	6.00 x 6.00 x 48.00	152 x 152 x 1219	16	16	1.62	41	6.00	152	12.00	305
F66T148GV	6.00 x 6.00 x 48.00	152 x 152 x 1219	—	—	—	—	—	—	—	—
F66T160GVWK	6.00 x 6.00 x 60.00	152 x 152 x 1524	20	20	1.62	41	6.00	152	12.00	305
F66T160GV	6.00 x 6.00 x 60.00	152 x 152 x 1524	—	—	—	—	—	—	—	—
F66T172GVWK	6.00 x 6.00 x 72.00	152 x 152 x 1829	24	24	1.62	41	6.00	152	12.00	305
F66T172GV	6.00 x 6.00 x 72.00	152 x 152 x 1829	—	—	—	—	—	—	—	—
F66T1120GVWK	6.00 x 6.00 x 120.00	152 x 152 x 3048	40	40	1.62	41	6.00	152	12.00	305
F66T1120GV	6.00 x 6.00 x 120.00	152 x 152 x 3048	—	—	—	—	—	—	—	—
F88T112GVWK	8.00 x 8.00 x 12.00	203 x 203 x 305	4	4	1.62	41	3.00	76	6.00	152
F88T112GV	8.00 x 8.00 x 12.00	203 x 203 x 305	—	—	—	—	—	—	—	—
F88T118GV	8.00 x 8.00 x 18.00	203 x 203 x 457	—	—	—	—	—	—	—	—
F88T124GVWK	8.00 x 8.00 x 24.00	203 x 203 x 610	8	8	1.62	41	6.00	152	12.00	305
F88T124GV	8.00 x 8.00 x 24.00	203 x 203 x 610	—	—	—	—	—	—	—	—
F88T136GVWK	8.00 x 8.00 x 36.00	203 x 203 x 914	12	12	1.62	41	6.00	152	12.00	305

Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F88T136GV	8.00 x 8.00 x 36.00	203 x 203 x 914	—	—	—	—	—	—	—	—
F88T148GVWK	8.00 x 8.00 x 48.00	203 x 203 x 1219	16	16	1.62	41	6.00	152	12.00	305
F88T148GV	8.00 x 8.00 x 48.00	203 x 203 x 1219	—	—	—	—	—	—	—	—
F88T160GVWK	8.00 x 8.00 x 60.00	203 x 203 x 1524	20	20	1.62	41	6.00	152	12.00	305
F88T160GV	8.00 x 8.00 x 60.00	203 x 203 x 1524	—	—	—	—	—	—	—	—
F88T172GVWK	8.00 x 8.00 x 72.00	203 x 203 x 1829	24	24	1.62	41	6.00	152	12.00	305
F88T172GV	8.00 x 8.00 x 72.00	203 x 203 x 1829	—	—	—	—	—	—	—	—
F88T1120GVWK	8.00 x 8.00 x 120.00	203 x 203 x 3048	40	40	1.62	41	6.00	152	12.00	305
F88T1120GV	8.00 x 8.00 x 120.00	203 x 203 x 3048	—	—	—	—	—	—	—	—
F1010T112GV	10.00 x 10.00 x 12.00	254 x 254 x 305	—	—	—	—	—	—	—	—
F1010T124GV	10.00 x 10.00 x 24.00	254 x 254 x 610	—	—	—	—	—	—	—	—
F1010T136GV	10.00 x 10.00 x 36.00	254 x 254 x 914	—	—	—	—	—	—	—	—
F1010T148GV	10.00 x 10.00 x 48.00	254 x 254 x 1219	—	—	—	—	—	—	—	—
F1010T160GV	10.00 x 10.00 x 60.00	254 x 254 x 1524	—	—	—	—	—	—	—	—
F1010T172GV	10.00 x 10.00 x 72.00	254 x 254 x 1829	—	—	—	—	—	—	—	—
F1010T1120GV	10.00 x 10.00 x 120.00	254 x 254 x 3048	—	—	—	—	—	—	—	—
F1212T112GV	12.00 x 12.00 x 12.00	305 x 305 x 305	—	—	—	—	—	—	—	—
F1212T124GV	12.00 x 12.00 x 24.00	305 x 305 x 610	—	—	—	—	—	—	—	—
F1212T136GV	12.00 x 12.00 x 36.00	305 x 305 x 914	—	—	—	—	—	—	—	—
F1212T148GV	12.00 x 12.00 x 48.00	305 x 305 x 1219	—	—	—	—	—	—	—	—
F1212T160GV	12.00 x 12.00 x 60.00	305 x 305 x 1524	—	—	—	—	—	—	—	—
F1212T1120GV	12.00 x 12.00 x 120.00	305 x 305 x 3048	—	—	—	—	—	—	—	—

GALVANIZED 90-DEGREE FLUSH TEE

For flush mounting against a vertical or horizontal surface.

BULLETIN: F40GF

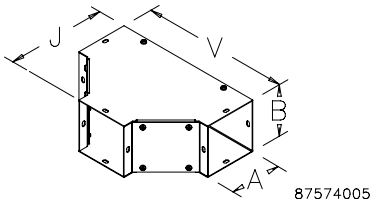


Catalog Number	AxB in./mm	G in./mm
F22GTGV	2.50 x 2.50 64 x 64	4.50 114
F44GTGV	4.00 x 4.00 102 x 102	6.00 152
F66GTGV	6.00 x 6.00 152 x 152	8.00 203
F88GTGV	8.00 x 8.00 203 x 203	10.00 254
F1010GTGV	10.00 x 10.00 254 x 254	12.00 305
F1212GTGV	12.00 x 12.00 305 x 305	14.00 356

GALVANIZED SWEEP TEE

For large radius turns. Mounts against vertical or horizontal surfaces. Top and inside covers removable.

BULLETIN: F40GF

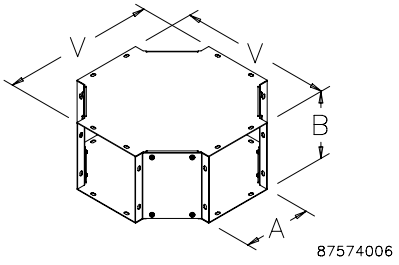


Catalog Number	AxB in./mm	J in./mm	V in./mm
F22TGV	2.50 x 2.50 64 x 64	6.50 165	10.35 263
F44TGV	4.00 x 4.00 102 x 102	8.00 203	11.85 301
F66TGV	6.00 x 6.00 152 x 152	10.00 254	13.85 352
F88TGV	8.00 x 8.00 203 x 203	12.00 305	15.84 402
F1010TGV	10.00 x 10.00 254 x 254	14.00 356	17.84 453
F1212TGV	12.00 x 12.00 305 x 305	16.00 406	19.84 504

GALVANIZED CROSS FITTING

For routing cables in four directions. Top, bottom and side covers removable.

BULLETIN: F40GF

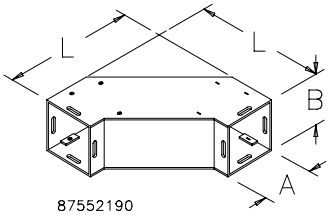


Catalog Number	AxB in./mm	V in./mm
F22XGV	2.50 x 2.50 64 x 64	10.35 263
F44XGV	4.00 x 4.00 102 x 102	11.85 301
F66XGV	6.00 x 6.00 152 x 152	13.85 352
F88XGV	8.00 x 8.00 203 x 203	15.84 402
F1010XGV	10.00 x 10.00 254 x 254	17.84 453
F1212XGV	12.00 x 12.00 305 x 305	19.84 504

GALVANIZED 90-DEGREE SWEEP ELBOW

90-Degree Sweep Elbow for large-radius turns.

BULLETIN: F40GF

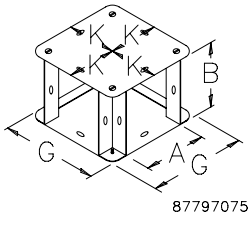


Catalog Number	AxB in./mm	L in./mm
F2290SEGV	2.50 x 2.50 64 x 64	7.91 201
F4490SEGV	4.00 x 4.00 102 x 102	9.41 239
F6690SEGV	6.00 x 6.00 152 x 152	11.34 288
F8890SEGV	8.00 x 8.00 203 x 203	13.44 341
F101090SEGV	10.00 x 10.00 254 x 254	15.62 395
F121290SEGV	12.00 x 12.00 305 x 305	17.44 443

GALVANIZED 90-DEGREE ELBOW-TEE-CROSS

Forms left or right 90-degree turns. Can be used as a tee or cross. Use with open adapter for cable entrance in top and bottom. Includes two closure plates.

BULLETIN: F40GF

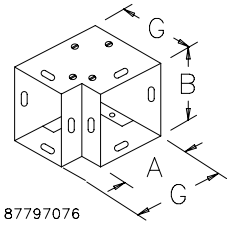


Catalog Number	AxB in./mm	G in./mm	K in./mm
F2290TXGV	2.50 x 2.50 64 x 64	4.50 114	2.25 57
F4490TXGV	4.00 x 4.00 102 x 102	6.00 152	3.00 76
F6690TXGV	6.00 x 6.00 152 x 152	8.00 203	4.00 102
F8890TXGV	8.00 x 8.00 203 x 203	10.00 254	5.00 127
F101090TXGV	10.00 x 10.00 254 x 254	12.00 305	6.00 152
F121290TXGV	12.00 x 12.00 305 x 305	14.00 356	7.00 178

GALVANIZED 90-DEGREE ELBOW

Any side can be removed, retaining lay-in feature regardless of how the elbow is oriented. Sides are held together with screws.

BULLETIN: F40GF

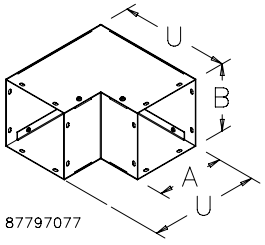


Catalog Number	AxB in./mm	G in./mm
F2290EGV	2.50 x 2.50 64 x 64	4.50 114
F4490EGV	4.00 x 4.00 102 x 102	6.00 152
F6690EGV	6.00 x 6.00 152 x 152	8.00 203
F8890EGV	8.00 x 8.00 203 x 203	10.00 254
F101090EGV	10.00 x 10.00 254 x 254	12.00 305
F121290EGV	12.00 x 12.00 305 x 305	14.00 356

GALVANIZED 90-DEGREE ELBOW—OUTSIDE OPENING

For continuous run with 90-degree turns. Top, bottom and outside covers removable.

BULLETIN: F40GF

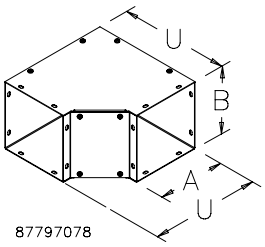


Catalog Number	AxB in./mm	U in./mm
F2290EOUTGV	2.50 x 2.50 64 x 64	6.50 165
F4490EOUTGV	4.00 x 4.00 102 x 102	8.00 203
F6690EOUTGV	6.00 x 6.00 152 x 152	10.00 254
F8890EOUTGV	8.00 x 8.00 203 x 203	12.00 305
F101090EOUTGV	10.00 x 10.00 254 x 254	14.00 356
F121290EOUTGV	12.00 x 12.00 305 x 305	16.00 406

GALVANIZED 90-DEGREE ELBOW—INSIDE OPENING

For continuous run with 90-degree turns. Top and inside covers removable.

BULLETIN: F40GF

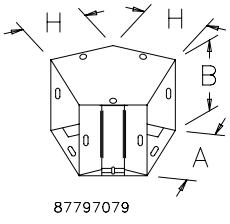


Catalog Number	AxB in./mm	U in./mm
F2290EINGV	2.50 x 2.50 64 x 64	6.50 165
F4490EINGV	4.00 x 4.00 102 x 102	8.00 203
F6690EINGV	6.00 x 6.00 152 x 152	10.00 254
F8890EINGV	8.00 x 8.00 203 x 203	12.00 305
F101090EINGV	10.00 x 10.00 254 x 254	14.00 356
F121290EINGV	12.00 x 12.00 305 x 305	16.00 406

GALVANIZED 45-DEGREE ELBOW

Any side can be removed, retaining lay-in feature regardless of how the elbow is oriented. Sides are held together with screws.

BULLETIN: F40GF

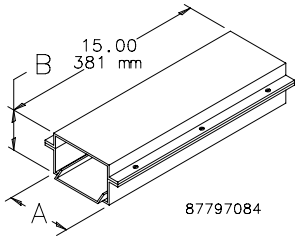


Catalog Number	AxB in./mm	H in./mm
F2245EGV	2.50 x 2.50 64 x 64	2.75 70
F4445EGV	4.00 x 4.00 102 x 102	3.38 86
F6645EGV	6.00 x 6.00 152 x 152	4.25 108
F8845EGV	8.00 x 8.00 203 x 203	5.06 129
F101045EGV	10.00 x 10.00 254 x 254	6.00 152
F121245EGV	12.00 x 12.00 305 x 305	6.75 171

GALVANIZED TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40GF



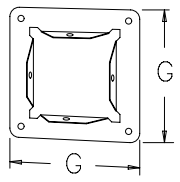
Catalog Number	AxB in./mm
F22GAGV	2.50 x 2.50 64 x 64
F44GAGV	4.00 x 4.00 102 x 102
F66GAGV	6.00 x 6.00 152 x 152
F88GAGV	8.00 x 8.00 203 x 203
F1010GAGV	10.00 x 10.00 254 x 254
F1212GAGV	12.00 x 12.00 305 x 305

Not UL/cUL listed.

GALVANIZED PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40GF

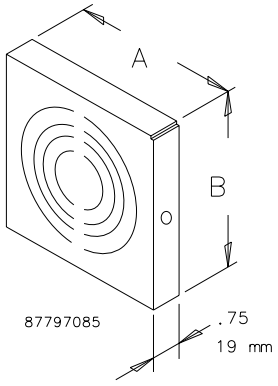


Catalog Number	G (in.)	G (mm)
F22GPAGV	4.50	114
F44GPAGV	6.00	152
F66GPAGV	8.00	203
F88GPAGV	10.00	254
F1010GPAGV	12.00	305
F1212GPAGV	14.00	356

GALVANIZED CLOSURE PLATE, WITH AND WITHOUT KNOCKOUTS

Closes the end of a wireway section or run.

BULLETIN: F40GF

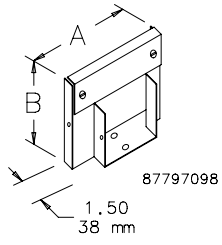


Catalog Number	AxB in./mm	Knockouts
F22GCPGV	2.50 x 2.50 64 x 64	With knockouts
F22GCPNKGV	2.50 x 2.50 64 x 64	Without knockouts
F44GCPGV	4.00 x 4.00 102 x 102	With knockouts
F44GCPNKGV	4.00 x 4.00 102 x 102	Without knockouts
F66GCPGV	6.00 x 6.00 152 x 152	With knockouts
F66GCPNKGV	6.00 x 6.00 152 x 152	Without knockouts
F88GCPGV	8.00 x 8.00 203 x 203	With knockouts
F88GCPNKGV	8.00 x 8.00 203 x 203	Without knockouts
F1010GCPNKGV	10.00 x 10.00 254 x 254	Without knockouts
F1212GCPGV	12.00 x 12.00 305 x 305	With knockouts
F1212GCPNKGV	12.00 x 12.00 305 x 305	Without knockouts

REDUCER

Reduces wireway to a smaller size.

BULLETIN: F40PF

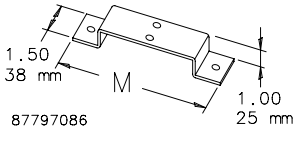


Catalog Number	AxB in./mm
F44G22R	4.00 x 4.00 102 x 102
F66G44R	6.00 x 6.00 152 x 152
F88G66R	8.00 x 8.00 203 x 203
F1010G88R	10.00 x 10.00 254 x 254
F1212G88R	12.00 x 12.00 305 x 305
F1212G1010R	12.00 x 12.00 305 x 305

GALVANIZED SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40GF



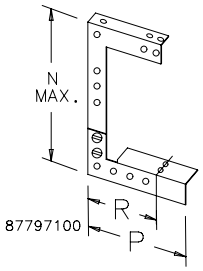
Catalog Number	M (in.)	M (mm)
F22GSHGV	4.62	117
F44GSHGV	6.12	155
F66GSHGV	8.12	206
F88GSHGV	10.12	257
F1010GSHGV	12.12	308
F1212GSHGV	14.12	359

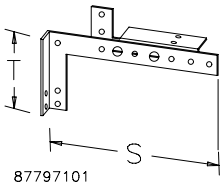
DROP AND BRACKET HANGERS

Drop and bracket hangers support a wireway run.

BULLETIN: F40PF

Catalog Number	N max. (in.)	N max. (mm)	P (in.)	P (mm)	R (in.)	R (mm)	S (in.)	S (mm)	T (in.)	T (mm)
F22GDB	8.50	216	4.50	114	3.38	86	7.25	184	3.75	95
F44GDB	10.50	267	6.00	152	4.12	105	9.25	235	4.50	114
F66GDB	15.00	381	7.12	181	5.12	130	13.75	349	5.50	140
F88GDB	21.00	533	10.81	275	7.00	178	13.75	349	7.75	197
F1010GDB	22.00	559	13.81	335	8.38	213	13.75	349	10.25	260
F1212GDB	23.00	584	15.56	395	9.78	248	13.75	349	12.50	318

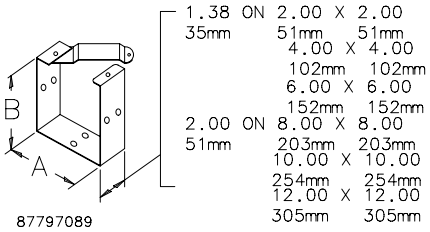




GALVANIZED UNIVERSAL U-CONNECTOR

Joins wireway sections and fittings. Top swings aside to retain the lay-in feature. One U-connector required at each wireway joint except telescope fittings, panel adapters, open adapters, closure plates or reducers.

BULLETIN: F40GF



Catalog Number	AxB in./mm
F22GUCGV	2.50 x 2.50 64 x 64
F44GUCGV	4.00 x 4.00 102 x 102
F66GUCGV	6.00 x 6.00 152 x 152
F88GUCGV	8.00 x 8.00 203 x 203
F1010GUCGV	10.00 x 10.00 254 x 254
F1212GUCGV	12.00 x 12.00 305 x 305

nVent | HOFFMAN

LAY-IN PAINTED FLAT-COVER WIREWAY, NEMA TYPE 1

APPLICATION

Protects electrical wiring in applications where dust, dirt, oil and water are not serious problems. This painted wireway features an open design on one side so wires and cables can be laid in safely along the entire run without pulling, a practice that can damage insulation. A variety of lengths and fittings provide design flexibility.

FEATURES

- Keyhole screw slots on flat covers
- Flat cover design allows for flush mounting
- Open top assembly
- Available with or without knockouts

SPECIFICATIONS

- 16 and 14 gauge pre-painted steel covers and bodies

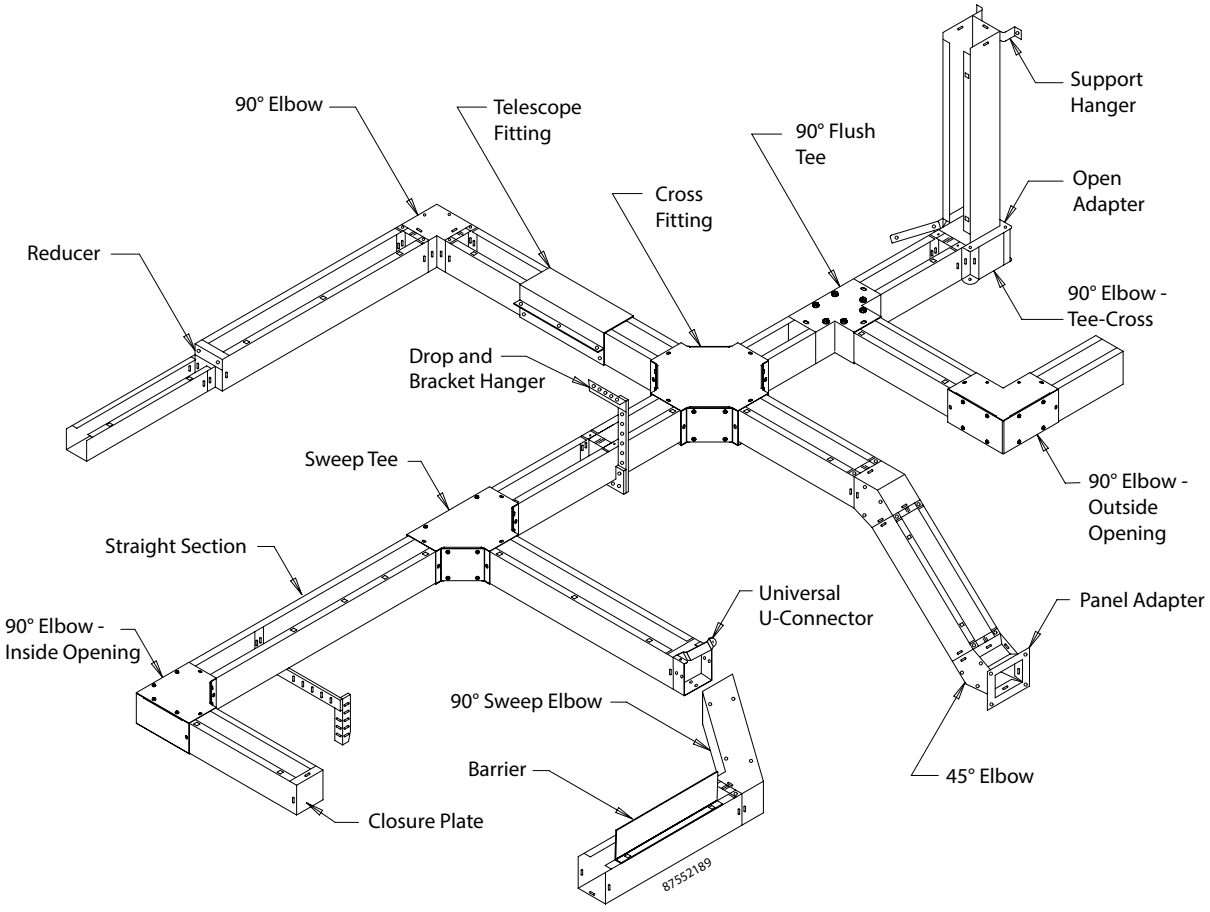
FINISH

ANSI 61 gray polyester powder paint finish inside and out.

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524
cUL Listed per CSA C22.2 No. 26; File No. E27524

NEMA/EEMAC Type 1
IEC 60529

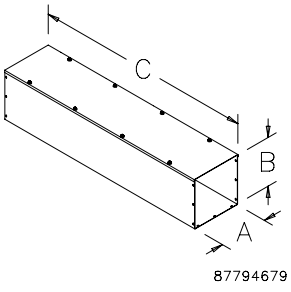


Standard Product **Selection Matrix**

Description	2.50 x 2.50 in. (64 x 64 mm)	3.00 x 3.00 in. (76 x 76 mm)	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)	10.00 x 10.00 in. (254 x 254 mm)	12.00 x 12.00 in. (305 x 305 mm)
12.00-in. (305-mm) Straight Section with knockouts	F22T112GVPWK	—	F44T112GVPWK	F66T112GVPWK	F88T112GVPWK	—	F1212T112GVPWK
12.00-in. (305-mm) Straight Section without knockouts	F22T112GVP	—	F44T112GVP	F66T112GVP	F88T112GVP	F1010T112GVP	F1212T112GVP
18.00-in. (455-mm) Straight Section without knockouts	—	—	F44T118GVP	F66T118GVP	F88T118GVP	—	—
24.00-in. (610-mm) Straight Section with knockouts	F22T124GVPWK	—	F44T124GVPWK	F66T124GVPWK	F88T124GVPWK	—	F1212T124GVPWK
24.00-in. (610-mm) Straight Section without knockouts	F22T124GVP	—	F44T124GVP	F66T124GVP	F88T124GVP	F1010T124GVP	F1212T124GVP
36.00-in. (914-mm) Straight Section with knockouts	F22T136GVPWK	—	F44T136GVPWK	F66T136GVPWK	F88T136GVPWK	—	F1212T136GVPWK
36.00-in. (914-mm) Straight Section without knockouts	F22T136GVP	—	F44T136GVP	F66T136GVP	F88T136GVP	F1010T136GVP	F1212T136GVP
48.00-in. (1219-mm) Straight Section with knockouts	F22T148GVPWK	—	F44T148GVPWK	F66T148GVPWK	F88T148GVPWK	—	F1212T148GVPWK
48.00-in. (1219-mm) Straight Section without knockouts	F22T148GVP	—	F44T148GVP	F66T148GVP	F88T148GVP	F1010T148GVP	F1212T148GVP
60.00-in. (1524-mm) Straight Section with knockouts	F22T160GVPWK	—	F44T160GVPWK	F66T160GVPWK	F88T160GVPWK	—	F1212T160GVPWK
60.00-in. (1524-mm) Straight Section without knockouts	F22T160GVP	F33T160GVP	F44T160GVP	F66T160GVP	F88T160GVP	F1010T160GVP	F1212T160GVP
72.00-in. (1829-mm) Straight Section with knockouts	—	—	F44T172GVPWK	F66T172GVPWK	—	—	—
72.00-in. (1829-mm) Straight Section without knockouts	—	—	F44T172GVP	F66T172GVP	F88T172GVP	F1010T172GVP	—
120.00-in. (3048-mm) Straight Section with knockouts	F22T1120GVPWK	—	F44T1120GVPWK	F66T1120GVPWK	F88T1120GVP	—	—
120.00-in. (3048-mm) Straight Section without knockouts	F22T1120GVP	F33T1120GVP	F44T1120GVP	F66T1120GVP	F88T1120GVP	F1010T1120GVP	F1212T1120GVP
90° Flush Tee	F22GT	F33GT	F44GT	F66GT	F88GT	F1010GT	F1212GT
Sweep Tee	F22T	—	F44T	F66T	F88T	F1010T	F1212T
Cross Fitting	F22X	—	F44X	F66X	F88X	F1010X	F1212X
90° Sweep Elbow	F22G90SE	—	F44G90SE	F66G90SE	F88G90SE	F1010G90SE	F1212G90SE
90° Elbow-Tee-Cross	F22G90TX	F33G90TX	F44G90TX	F66G90TX	F88G90TX	F1010G90TX	F1212G90TX
90° Elbow	F22G90E	F33G90E	F44G90E	F66G90E	F88G90E	F1010G90E	F1212G90E
90° Elbow Outside Opening	F2290EOUT	—	F4490EOUT	F6690EOUT	F8890EOUT	F101090EOUT	F121290EOUT
90° Elbow Inside Opening	F2290EIN	—	F4490EIN	F6690EIN	F8890EIN	F101090EIN	F121290EIN
45° Elbow	F22G45E	F33G45E	F44G45E	F66G45E	F88G45E	F1010G45E	F1212G45E
Telescope Fitting[a]	F22GA	—	F44GA	F66GA	F88GA	F1010GA	F1212GA
Open Adapter	F22GOA	—	F44GOA	F66GOA	F88GOA	F1010GOA	F1212GOA
Panel Adapter	F22GPA	F33GPA	F44GPA	F66GPA	F88GPA	F1010GPA	F1212GPA
Closure Plate with knockouts	F22GCP	—	F44GCP	F66GCP	F88GCP	F1010GCP	F1212GCP
Closure Plate without knockouts	F22GCPNK	F33GCPNK	F44GCPNK	F66GCPNK	F88GCPNK	F1010GCPNK	F1212GCPNK
Reducer	—	F33G22R	F44G22R F44G33R	F66G44R	F88G66R	F1010G88R	F1212G88R F1212G1010R
Drop and Bracket Hanger	F22GDB	—	F44GDB	F66GDB	F88GDB	F1010GDB	F1212GDB
Support Hanger	F22GSH	—	F44GSH	F66GSH	F88GSH	F1010GSH	F1212GSH
Universal U-Connector	F22GUC	F33GUC	F44GUC	F66GUC	F88GUC	F1010GUC	F1212GUC
Barrier Kit, bolt-on Each barrier 60.00 in. (1524 mm)	—	F33BK60	F44BK60	F66BK60	F88BK60	—	—

[a]Not UL/cUL listed.

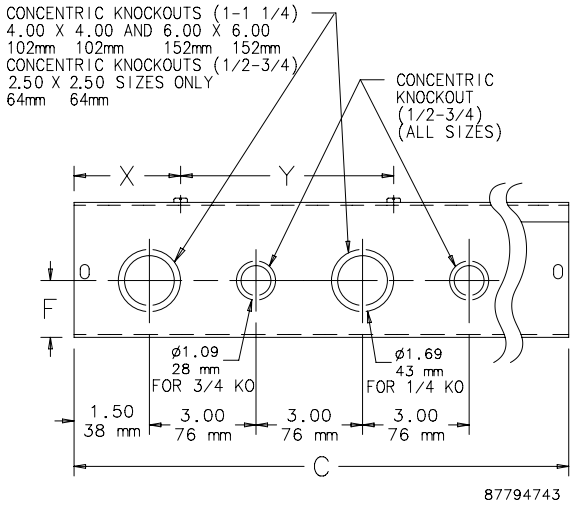
STRAIGHT SECTION



87794679

Available in lengths from 12.00 (305 mm) to 120.00 (3048 mm), with or without knockouts.

BULLETIN: F40FC



87794743

PATTERN REPEATS EVERY 12.00 305 mm

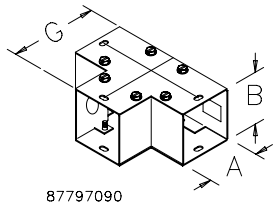
Straight Sections

Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F22T112GVPWK	2.50 x 2.50 x 12.00	64 x 64 x 305	8	—	1.06	27	3.00	76	6.00	152
F22T112GVP	2.50 x 2.50 x 12.00	64 x 64 x 305	—	—	—	—	—	—	—	—
F22T124GVPWK	2.50 x 2.50 x 24.00	64 x 64 x 610	16	—	1.06	27	6.00	152	12.00	305
F22T124GVP	2.50 x 2.50 x 24.00	64 x 64 x 610	—	—	—	—	—	—	—	—
F22T136GVPWK	2.50 x 2.50 x 36.00	64 x 64 x 610	24	—	1.06	27	6.00	152	12.00	305
F22T136GVP	2.50 x 2.50 x 36.00	64 x 64 x 914	—	—	—	—	—	—	—	—
F22T148GVPWK	2.50 x 2.50 x 48.00	64 x 64 x 1219	32	—	1.06	27	6.00	152	12.00	305
F22T148GVP	2.50 x 2.50 x 48.00	64 x 64 x 1219	—	—	—	—	—	—	—	—
F22T160GVPWK	2.50 x 2.50 x 60.00	64 x 64 x 1524	40	—	1.06	27	6.00	152	12.00	305
F22T160GVP	2.50 x 2.50 x 60.00	64 x 64 x 1524	—	—	—	—	—	—	—	—
F22T1120GVPWK	2.50 x 2.50 x 120.00	64 x 64 x 3048	80	—	1.06	27	6.00	152	12.00	305
F22T1120GVP	2.50 x 2.50 x 120.00	64 x 64 x 3048	—	—	—	—	—	—	—	—
F33T160GVP	3.00 x 3.00 x 60.00	76 x 76 x 1524	—	—	—	—	—	—	—	—
F33T1120GVP	3.00 x 3.00 x 120.00	76 x 76 x 3048	—	—	—	—	—	—	—	—
F44T112GVPWK	4.00 x 4.00 x 12.00	102 x 102 x 305	4	4	1.62	41	3.00	76	6.00	152
F44T112GVP	4.00 x 4.00 x 12.00	102 x 102 x 305	—	—	—	—	—	—	—	—
F44T118GVP	4.00 x 4.00 x 18.00	102 x 102 x 455	—	—	—	—	—	—	—	—
F44T124GVPWK	4.00 x 4.00 x 24.00	102 x 102 x 610	8	8	1.62	41	6.00	152	12.00	305
F44T124GVP	4.00 x 4.00 x 24.00	102 x 102 x 610	—	—	—	—	—	—	—	—
F44T136GVPWK	4.00 x 4.00 x 36.00	102 x 102 x 914	12	12	1.62	41	6.00	152	12.00	305
F44T136GVP	4.00 x 4.00 x 36.00	102 x 102 x 914	—	—	—	—	—	—	—	—
F44T148GVPWK	4.00 x 4.00 x 48.00	102 x 102 x 1219	16	16	1.62	41	6.00	152	12.00	305
F44T148GVP	4.00 x 4.00 x 48.00	102 x 102 x 1219	—	—	—	—	—	—	—	—
F44T160GVPWK	4.00 x 4.00 x 60.00	102 x 102 x 1524	20	20	1.62	41	6.00	152	12.00	305
F44T160GVP	4.00 x 4.00 x 60.00	102 x 102 x 1524	—	—	—	—	—	—	—	—
F44T172GVPWK	4.00 x 4.00 x 72.00	102 x 102 x 1829	24	24	1.62	41	6.00	152	12.00	305
F44T172GVP	4.00 x 4.00 x 72.00	102 x 102 x 1829	—	—	—	—	—	—	—	—
F44T1120GVPWK	4.00 x 4.00 x 120.00	102 x 102 x 3048	40	40	1.62	41	6.00	152	12.00	305
F44T1120GVP	4.00 x 4.00 x 120.00	102 x 102 x 3048	—	—	—	—	—	—	—	—
F66T112GVPWK	6.00 x 6.00 x 12.00	152 x 152 x 305	4	4	1.62	41	6.00	152	12.00	305
F66T112GVP	6.00 x 6.00 x 12.00	152 x 152 x 305	—	—	—	—	—	—	—	—
F66T118GVP	6.00 x 6.00 x 18.00	152 x 152 x 455	—	—	—	—	—	—	—	—
F66T124GVPWK	6.00 x 6.00 x 24.00	152 x 152 x 610	8	8	1.62	41	6.00	152	12.00	305
F66T124GVP	6.00 x 6.00 x 24.00	152 x 152 x 610	—	—	—	—	—	—	—	—
F66T136GVPWK	6.00 x 6.00 x 36.00	152 x 152 x 914	12	12	1.62	41	6.00	152	12.00	305
F66T136GVP	6.00 x 6.00 x 36.00	152 x 152 x 914	—	—	—	—	—	—	—	—
F66T148GVPWK	6.00 x 6.00 x 48.00	152 x 152 x 1219	16	16	1.62	41	6.00	152	12.00	305
F66T148GVP	6.00 x 6.00 x 48.00	152 x 152 x 1219	—	—	—	—	—	—	—	—
F66T160GVPWK	6.00 x 6.00 x 60.00	152 x 152 x 1524	20	20	1.62	41	6.00	152	12.00	305
F66T160GVP	6.00 x 6.00 x 60.00	152 x 152 x 1524	—	—	—	—	—	—	—	—
F66T172GVPWK	6.00 x 6.00 x 72.00	152 x 152 x 1829	24	24	1.62	41	6.00	152	12.00	305
F66T172GVP	6.00 x 6.00 x 72.00	152 x 152 x 1829	—	—	—	—	—	—	—	—
F66T1120GVPWK	6.00 x 6.00 x 120.00	152 x 152 x 3048	40	40	1.62	41	6.00	152	12.00	305
F66T1120GVP	6.00 x 6.00 x 120.00	152 x 152 x 3048	—	—	—	—	—	—	—	—
F88T112GVPWK	8.00 x 8.00 x 12.00	203 x 203 x 305	4	4	1.62	41	3.00	76	6.00	152
F88T112GVP	8.00 x 8.00 x 12.00	203 x 203 x 305	—	—	—	—	—	—	—	—
F88T118GVP	8.00 x 8.00 x 18.00	203 x 203 x 457	—	—	—	—	—	—	—	—
F88T124GVPWK	8.00 x 8.00 x 24.00	203 x 203 x 610	8	8	1.62	41	6.00	152	12.00	305
F88T124GVP	8.00 x 8.00 x 24.00	203 x 203 x 610	—	—	—	—	—	—	—	—
F88T136GVPWK	8.00 x 8.00 x 36.00	203 x 203 x 914	12	12	1.62	41	6.00	152	12.00	305
F88T136GVP	8.00 x 8.00 x 36.00	203 x 203 x 914	—	—	—	—	—	—	—	—
F88T148GVPWK	8.00 x 8.00 x 48.00	203 x 203 x 1219	16	16	1.62	41	6.00	152	12.00	305
F88T148GVP	8.00 x 8.00 x 48.00	203 x 203 x 1219	—	—	—	—	—	—	—	—
F88T160GVPWK	8.00 x 8.00 x 60.00	203 x 203 x 1524	20	20	1.62	41	6.00	152	12.00	305
F88T160GVP	8.00 x 8.00 x 60.00	203 x 203 x 1524	—	—	—	—	—	—	—	—
F88T172GVP	8.00 x 8.00 x 72.00	203 x 203 x 1829	—	—	—	—	—	—	—	—
F88T1120GVP	8.00 x 8.00 x 120.00	203 x 203 x 3048	—	—	—	—	—	—	—	—
F1010T112GVP	10.00 x 10.00 x 12.00	254 x 254 x 305	—	—	—	—	—	—	—	—
F1010T124GVP	10.00 x 10.00 x 24.00	254 x 254 x 610	—	—	—	—	—	—	—	—
F1010T136GVP	10.00 x 10.00 x 36.00	254 x 254 x 914	—	—	—	—	—	—	—	—
F1010T148GVP	10.00 x 10.00 x 48.00	254 x 254 x 1219	—	—	—	—	—	—	—	—
F1010T160GVP	10.00 x 10.00 x 60.00	254 x 254 x 1524	—	—	—	—	—	—	—	—
F1010T172GVP	10.00 x 10.00 x 72.00	254 x 254 x 1829	—	—	—	—	—	—	—	—
F1010T1120GVP	10.00 x 10.00 x 120.00	254 x 254 x 3048	—	—	—	—	—	—	—	—
F1212T112GVPWK	12.00 x 12.00 x 12.00	305 x 305 x 305	4	4	1.62	41	3.00	76	6.00	152
F1212T112GVP	12.00 x 12.00 x 12.00	305 x 305 x 305	—	—	—	—	—	—	—	—
F1212T124GVPWK	12.00 x 12.00 x 24.00	305 x 305 x 610	8	8	1.62	41	6.00	152	12.00	305
F1212T124GVP	12.00 x 12.00 x 24.00	305 x 305 x 610	—	—	—	—	—	—	—	—
F1212T136GVPWK	12.00 x 12.00 x 36.00	305 x 305 x 914	12	12	1.62	41	6.00	152	12.00	305
F1212T136GVP	12.00 x 12.00 x 36.00	305 x 305 x 914	—	—	—	—	—	—	—	—
F1212T148GVPWK	12.00 x 12.00 x 48.00	305 x 305 x 1219	16	16	1.62	41	6.00	152	12.00	305
F1212T148GVP	12.00 x 12.00 x 48.00	305 x 305 x 1219	—	—	—	—	—	—	—	—
F1212T160GVPWK	12.00 x 12.00 x 60.00	305 x 305 x 1524	20	20	1.62	41	6.00	152	12.00	305
F1212T160GVP	12.00 x 12.00 x 60.00	305 x 305 x 1524	—	—	—	—	—	—	—	—
F1212T1120GVP	12.00 x 12.00 x 120.00	305 x 305 x 3048	—	—	—	—	—	—	—	—

90-DEGREE FLUSH TEE

For flush mounting against a vertical or horizontal surface.

BULLETIN: F40PF



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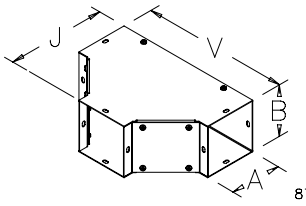
Catalog Number	AxB in./mm	G in./mm
F22GT	2.50 x 2.50 64 x 64	4.50 114
F33GT	3.00 x 3.00 76 x 76	5.00 127
F44GT	4.00 x 4.00 102 x 102	6.00 152
F66GT	6.00 x 6.00 152 x 152	8.00 203
F88GT	8.00 x 8.00 203 x 203	10.00 254
F1010GT	10.00 x 10.00 254 x 254	12.00 305
F1212GT	12.00 x 12.00 305 x 305	14.00 356

SWEEP TEE

For large radius turns. Mounts against vertical or horizontal surfaces. Top and inside covers removable.

BULLETIN: F40PF



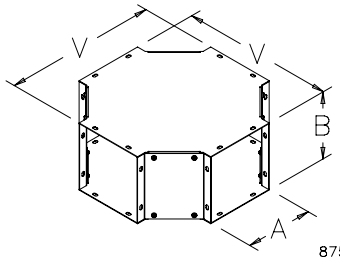
87574005

Catalog Number	AxB in./mm	J in./mm	V in./mm
F22T	2.50 x 2.50 64 x 64	6.50 165	10.35 263
F44T	4.00 x 4.00 102 x 102	8.00 203	11.85 301
F66T	6.00 x 6.00 152 x 152	10.00 254	13.85 352
F88T	8.00 x 8.00 203 x 203	12.00 305	15.84 402
F1010T	10.00 x 10.00 254 x 254	14.00 356	17.84 453
F1212T	12.00 x 12.00 305 x 305	16.00 406	19.84 504

CROSS FITTING

For routing cables in four directions. Top, bottom and side covers removable.

BULLETIN: F40PF



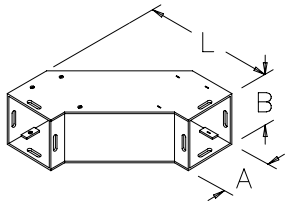
87574006

Catalog Number	AxB in./mm	V in./mm
F22X	2.50 x 2.50 64 x 64	10.35 263
F44X	4.00 x 4.00 102 x 102	11.85 301
F66X	6.00 x 6.00 152 x 152	13.85 352
F88X	8.00 x 8.00 203 x 203	15.84 402
F1010X	10.00 x 10.00 254 x 254	17.84 453
F1212X	12.00 x 12.00 305 x 305	19.84 504

90-DEGREE SWEEP ELBOW

For large radius turns.

BULLETIN: F40PF



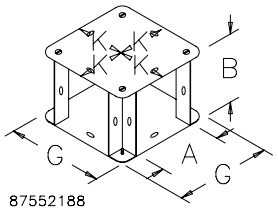
87797091

Catalog Number	AxB in./mm	L in./mm
F22G90SE	2.50 x 2.50 64 x 64	7.91 201
F44G90SE	4.00 x 4.00 102 x 102	9.41 239
F66G90SE	6.00 x 6.00 152 x 152	11.34 288
F88G90SE	8.00 x 8.00 203 x 203	13.44 341
F1010G90SE	10.00 x 10.00 254 x 254	15.62 395
F1212G90SE	12.00 x 12.00 305 x 305	17.44 443

90-DEGREE ELBOW-TEE-CROSS

Forms left or right 90-degree turns. Can be used as a tee or cross. Use with open adapter for cable entrance in top and bottom. Includes two closure plates.

BULLETIN: F40PF



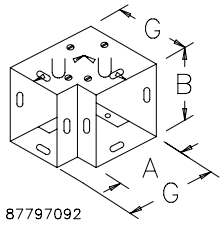
87552188

Catalog Number	AxB in./mm	G in./mm	K in./mm
F22G90TX	2.50 x 2.50 64 x 64	4.50 114	2.25 57
F33G90TX	3.00 x 3.00 76 x 76	5.00 127	2.50 64
F44G90TX	4.00 x 4.00 102 x 102	6.00 152	3.00 76
F66G90TX	6.00 x 6.00 152 x 152	8.00 203	4.00 102
F88G90TX	8.00 x 8.00 203 x 203	10.00 254	5.00 127
F1010G90TX	10.00 x 10.00 254 x 254	12.00 305	6.00 152
F1212G90TX	12.00 x 12.00 305 x 305	14.00 356	7.00 178

90-DEGREE ELBOW

Any side can be removed, retaining lay-in feature regardless of how the elbow is oriented. Sides are held together with screws.

BULLETIN: F40PF



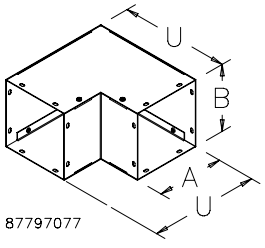
87797092

Catalog Number	AxB in./mm	G in./mm
F22G90E	2.50 x 2.50 64 x 64	4.50 114
F33G90E	3.00 x 3.00 76 x 76	5.00 127
F44G90E	4.00 x 4.00 102 x 102	6.00 152
F66G90E	6.00 x 6.00 152 x 152	8.00 203
F88G90E	8.00 x 8.00 203 x 203	10.00 254
F1010G90E	10.00 x 10.00 254 x 254	12.00 305
F1212G90E	12.00 x 12.00 305 x 305	14.00 356

90-DEGREE ELBOW—OUTSIDE OPENING

For continuous run with 90-degree turns. Top, bottom and outside covers removable.

BULLETIN: F40PF



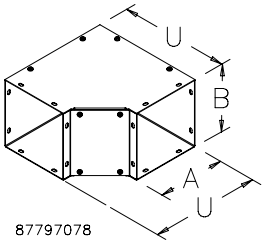
87797077

Catalog Number	AxB in./mm	U in./mm
F2290EOUT	2.50 x 2.50 64 x 64	6.50 165
F4490EOUT	4.00 x 4.00 102 x 102	8.00 203
F6690EOUT	6.00 x 6.00 152 x 152	10.00 254
F8890EOUT	8.00 x 8.00 203 x 203	12.00 305
F101090EOUT	10.00 x 10.00 254 x 254	14.00 356
F121290EOUT	12.00 x 12.00 305 x 305	16.00 406

90-DEGREE ELBOW—INSIDE OPENING

For continuous run with 90-degree turns. Top and inside covers removable.

BULLETIN: F40PF



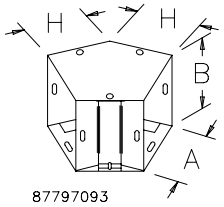
87797078

Catalog Number	AxB in./mm	U in./mm
F2290EIN	2.50 x 2.50 64 x 64	6.50 165
F4490EIN	4.00 x 4.00 102 x 102	8.00 203
F6690EIN	6.00 x 6.00 152 x 152	10.00 254
F8890EIN	8.00 x 8.00 203 x 203	12.00 305
F101090EIN	10.00 x 10.00 254 x 254	14.00 356
F121290EIN	12.00 x 12.00 305 x 305	16.00 406

45-DEGREE ELBOW

For continuous run with 45-degree turns. Top and inside covers removable.

BULLETIN: F40PF

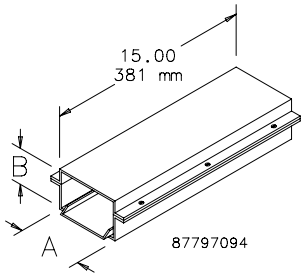


Catalog Number	AxB in./mm	H in./mm
F22G45E	2.50 x 2.50 64 x 64	2.75 70
F33G45E	3.00 x 3.00 76 x 76	2.99 76
F44G45E	4.00 x 4.00 102 x 102	3.38 86
F66G45E	6.00 x 6.00 152 x 152	4.25 108
F88G45E	8.00 x 8.00 203 x 203	5.06 129
F1010G45E	10.00 x 10.00 254 x 254	6.00 152
F1212G45E	12.00 x 12.00 305 x 305	6.75 171

TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40PF



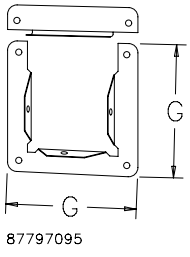
Catalog Number	AxB in./mm
F22GA	2.50 x 2.50 64 x 64
F44GA	4.00 x 4.00 102 x 102
F66GA	6.00 x 6.00 152 x 152
F88GA	8.00 x 8.00 203 x 203
F1010GA	10.00 x 10.00 254 x 254
F1212GA	12.00 x 12.00 305 x 305

These items not UL/cUL listed.

OPEN ADAPTER

Used with the 90-Degree Elbow-Tee-Cross fitting to permit a run directly up or down.

BULLETIN: F40PF

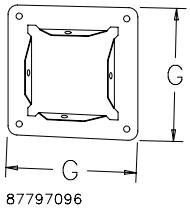


Catalog Number	G (in.)	G (mm)
F22GOA	4.50	114
F44GOA	6.00	152
F66GOA	8.00	203
F88GOA	10.00	254
F1010GOA	12.00	305
F1212GOA	14.00	356

PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40PF

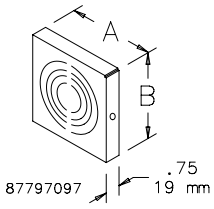


Catalog Number	G (in.)	G (mm)
F22GPA	4.50	114
F33GPA	5.00	127
F44GPA	6.00	152
F66GPA	8.00	203
F88GPA	10.00	254
F1010GPA	12.00	305
F1212GPA	14.00	356

CLOSURE PLATE

Closes the end of a wireway section or run.

BULLETIN: F40PF



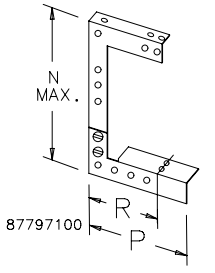
Catalog Number	AxB in.	AxB mm	Knockouts
F22GCP	2.50 x 2.50	64 x 64	With knockouts
F22GCPNK	2.50 x 2.50	64 x 64	Without knockouts
F44GCP	4.00 x 4.00	102 x 102	With knockouts
F33GCPNK	3.00 x 3.00	76 x 76	Without knockouts
F44GCPNK	4.00 x 4.00	102 x 102	Without knockouts
F66GCP	6.00 x 6.00	152 x 152	With knockouts
F66GCPNK	6.00 x 6.00	152 x 152	Without knockouts
F88GCP	8.00 x 8.00	203 x 203	With knockouts
F88GCPNK	8.00 x 8.00	203 x 203	Without knockouts
F1010GCP	10.00 x 10.00	254 x 254	With knockouts
F1010GCPNK	10.00 x 10.00	254 x 254	Without knockouts
F1212GCP	12.00 x 12.00	305 x 305	With knockouts
F1212GCPNK	12.00 x 12.00	305 x 305	Without knockouts

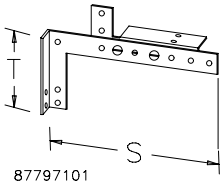
DROP AND BRACKET HANGERS

Drop and bracket hangers support a wireway run.

BULLETIN: F40PF

Catalog Number	N max. (in.)	N max. (mm)	P (in.)	P (mm)	R (in.)	R (mm)	S (in.)	S (mm)	T (in.)	T (mm)
F22GDB	8.50	216	4.50	114	3.38	86	7.25	184	3.75	95
F44GDB	10.50	267	6.00	152	4.12	105	9.25	235	4.50	114
F66GDB	15.00	381	7.12	181	5.12	130	13.75	349	5.50	140
F88GDB	21.00	533	10.81	275	7.00	178	13.75	349	7.75	197
F1010GDB	22.00	559	13.81	335	8.38	213	13.75	349	10.25	260
F1212GDB	23.00	584	15.56	395	9.78	248	13.75	349	12.50	318

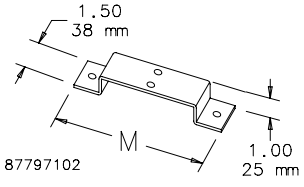




SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40PF

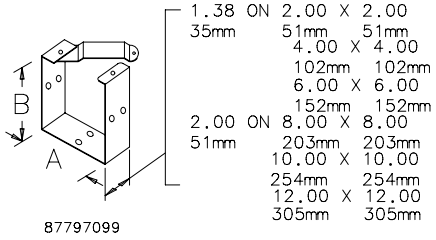


Catalog Number	AxB in./mm	M in./mm
F22GSH	2.50 x 2.50 64 x 64	4.62 117
F44GSH	4.00 x 4.00 102 x 102	6.12 155
F66GSH	6.00 x 6.00 152 x 152	8.12 206
F88GSH	8.00 x 8.00 203 x 203	10.12 257
F1010GSH	10.00 x 10.00 254 x 254	12.12 308
F1212GSH	12.00 x 12.00 305 x 305	14.12 359

UNIVERSAL U-CONNECTOR

Joins wireway sections and fittings. Top swings aside to retain the lay-in feature. One U-connector required at each wireway joint except telescope fittings, panel adapters, open adapters, closure plates or reducers.

BULLETIN: F40PF



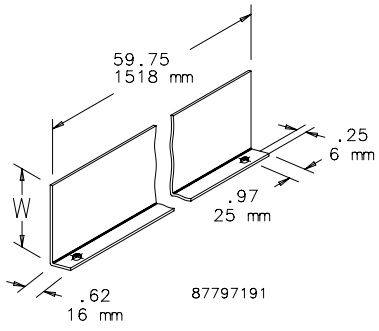
Catalog Number	AxB in./mm
F22GUC	2.50 x 2.50 64 x 64
F33GUC	3.00 x 3.00 76 x 76
F44GUC	4.00 x 4.00 102 x 102
F66GUC	6.00 x 6.00 152 x 152
F88GUC	8.00 x 8.00 203 x 203
F1010GUC	10.00 x 10.00 254 x 254
F1212GUC	12.00 x 12.00 305 x 305

BARRIER KIT, BOLT-ON

Divides wireway into two or more compartments. Barriers are fastened to wireway sections with screws. Sealing washers are included.

BULLETIN: F20

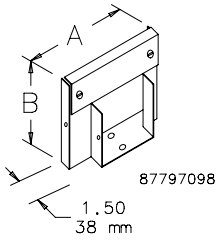
Catalog Number	W in./mm
F33BK60	2.00 51
F44BK60	3.00 76
F66BK60	4.50 114
F88BK60	6.00 152



REDUCER

Reduces wireway to a smaller size.

BULLETIN: F40PF



Catalog Number	AxB in./mm
F33G22R	3.00 x 3.00 76 x 76
F44G22R	4.00 x 4.00 102 x 102
F44G33R	4.00 x 4.00 101 x 101
F66G44R	6.00 x 6.00 152 x 152
F88G66R	8.00 x 8.00 203 x 203
F1010G88R	10.00 x 10.00 254 x 254
F1212G88R	12.00 x 12.00 305 x 305
F1212G1010R	12.00 x 12.00 305 x 305

nVent | HOFFMAN

LAY-IN HINGED-COVER WIREWAY, NEMA TYPE 1

APPLICATION

This wireway provides convenient cable installation and maintenance with its top hinged cover and an opening on one side so wires and cables can be laid in along the entire run without pulling. A variety of lengths and fittings provide increased design flexibility.

FEATURES

- Open top assembly
- Removable hinged cover latches with captive screws
- 12.00 x 12.00-in. models available in hinged or non-hinged styles
- Available with or without knockouts on wireway sides
- Covers include captivated plated screw fasteners

SPECIFICATIONS

- 16 gauge or 14 gauge steel covers and bodies

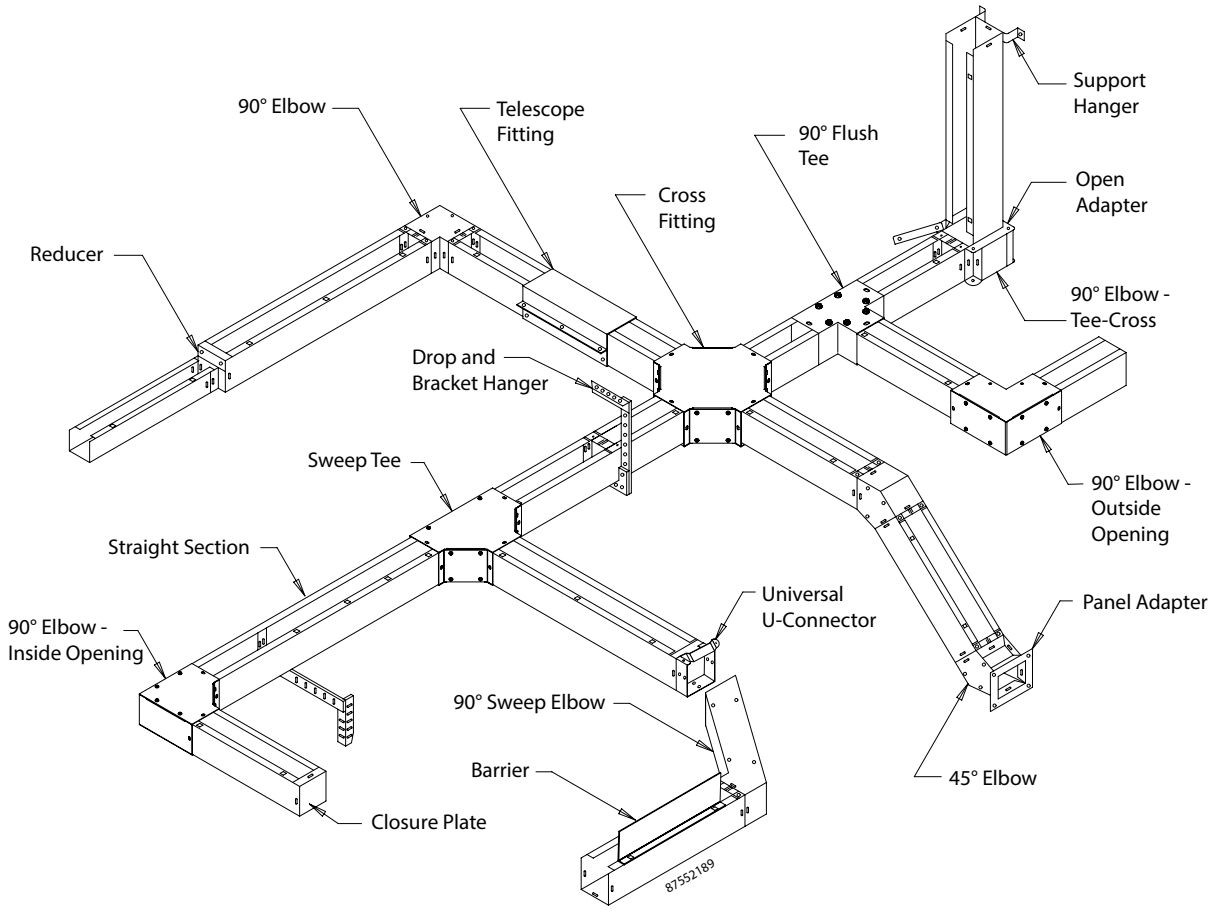
FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524
cUL Listed per CSA C22.2 No. 26; File No. E27524

NEMA/EEMAC Type 1
IEC 60529, IP30

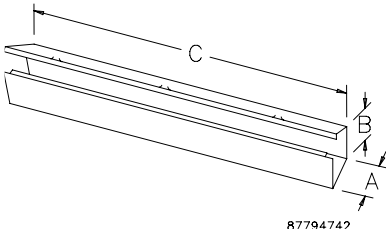


Standard Product **Selection Matrix**

Description	2.50 x 2.50 in. (64 x 64 mm) 16 Gauge	4.00 x 4.00 in. (102 x 102 mm) 16 Gauge	6.00 x 6.00 in. (152 x 152 mm) 16 Gauge	8.00 x 8.00 in. (203 x 203 mm) 14 Gauge	10.00 x 10.00 in. (254 x 254 mm) 14 Gauge	Not Hinged 12.00 x 12.00 in. (305 x 305 mm) 14 Gauge	Hinged 12.00 x 12.00 in. (305 x 305 mm) 14 Gauge
12.00-in. (305-mm) Straight Section with knockouts	F22G12WK	F44G12WK	F66G12WK	—	—	—	—
12.00-in. (305-mm) Straight Section without knockouts	F22G12	F44G12	F66G12	F66G12	F1010G12	F1212G12	F1212G12H
18.00-in. (455-mm) Straight Section without knockouts	—	F44G18	F66G18	F88G18	—	—	—
24.00-in. (610-mm) Straight Section with knockouts	F22G24WK	F44G24WK	F66G24WK	—	—	—	—
24.00-in. (610-mm) Straight Section without knockouts	F22G24	F44G24	F66G24	F88G24	F1010G24	F1212G24	F1212G24H
36.00-in. (914-mm) Straight Section with knockouts	F22G36WK	F44G36WK	F66G36WK	—	—	—	—
36.00-in. (914-mm) Straight Section without knockouts	F22G36	F44G36	F66G36	F88G36	F1010G36	F1212G36	F1212G36H
48.00-in. (1219-mm) Straight Section with knockouts	F22G48WK	F44G48WK	F66G48WK	—	—	—	—
48.00-in. (1219-mm) Straight Section without knockouts	F22G48	F44G48	F66G48	F88G48	F1010G48	F1212G48	F1212G48H
60.00-in. (1524-mm) Straight Section with knockouts	F22G60WK	F44G60WK	F66G60WK	—	—	—	—
60.00-in. (1524-mm) Straight Section without knockouts	F22G60	F44G60	F66G60	F88G60	F1010G60	F1212G60	F1212G60H
72.00-in. (1829-mm) Straight Section with knockouts	—	F44G72WK	F66G72WK	—	—	—	—
72.00-in. (1829-mm) Straight Section without knockouts	—	F44G72	F66G72	F88G72	F1010G72	F1212G72	F1212G72H
96.00-in. (2438-mm) Straight Section without knockouts	—	F44G96	F66G96	F88G96	F1010G96	F1212G96	—
120.00-in. (3048-mm) Straight Section with knockouts	F22G120WK	F44G120WK	F66G120WK	—	—	—	—
120.00-in. (3048-mm) Straight Section without knockouts	F22G120	F44G120	F66G120	F66G120	F1010G120	F1212G120	F1212G120H
90° Flush Tee	F22GT	F44GT	F66GT	F88GT	F1010GT	F1212GT	F1212GT
Sweep Tee	F22T	F44T	F66GT	F88T	F1010T	F1212T	F1212T
Cross Fitting	F22X	F44X	F66X	F88X	F1010X	F1212X	F1212X
90° Sweep Elbow	F22G90SE	F44G90SE	F66G90SE	F88G90SE	F1010G90SE	F1212G90SE	F1212G90SE
90° Elbow-Tee-Cross	F22G90TX	F44G90TX	F66G90TX	F88G90TX	F1010G90TX	F1212G90TX	F1212G90TX
90° Elbow	F22G90E	F44G90E	F66G90E	F88G90E	F1010G90E	F1212G90E	F1212G90E
90° Elbow Outside Opening	F2290EOUT	F4490EOUT	F6690EOUT	F8890EOUT	F101090EOUT	F121290EOUT	F121290EOUT
90° Elbow Inside Opening	F2290EIN	F4490EIN	F6690EIN	F8890EIN	F101090EIN	F121290EIN	F121290EIN
45° Elbow	F22G45E	F44G45E	F66G45E	F88G45E	F1010G45E	F1212G45E	F1212G45E
Telescope Fitting[a]	F22GA	F44GA	F66GA	F88GA	F1010GA	F1212GA	F1212GA
Open Adapter	F22GOA	F44GOA	F66GOA	F88GOA	F1010GOA	F1212GOA	F1212GOA
Panel Adapter	F22GPA	F44GPA	F66GPA	F88GPA	F1010GPA	F1212GPA	F1212GPA
Closure Plate without knockouts	F22GCPNK	F44GCPNK	F66GCPNK	F88GCPNK	F1010GCPNK	F1212GCPNK	F1212GCPNK
Closure Plate with knockouts	F22GCP	F44GCP	F66GCP	F88GCP	F1010GCP	F1212GCP	F1212GCP
Reducer	—	F44G22R	F66G44R	F88G66R	F1010G88R	F1212G88R F1212G1010R	F1212G88R F1212G1010R
Drop and Bracket Hanger	F22GDB	F44GDB	F66GDB	F88GDB	F1010GDB	F1212GDB	F1212GDB
Support Hanger	F22GSH	F44GSH	F66GSH	F88GSH	F1010GSH	F1212GSH	F1212GSH
Universal U-Connector	F22GUC	F44GUC	F66GUC	F88GUC	F1010GUC	F1212GUC	F1212GUC
Barrier Kit, bolt-on h barrier 60.00 in. (1524 mm)	—	F44BK60	F66BK60	F88BK60	—	—	—

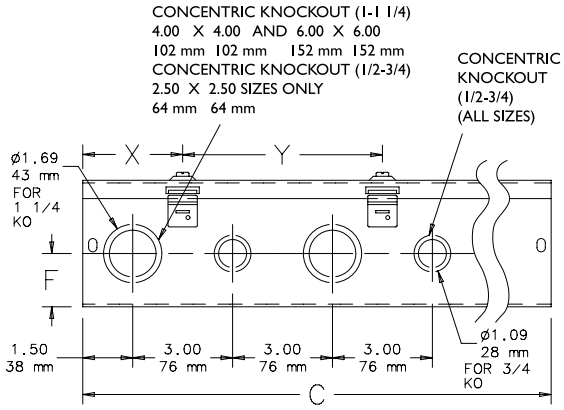
[a]Not UL/cUL listed.

STRAIGHT SECTION



Available in lengths from 12.00 in. (305 mm), with or without knockouts.

BULLETIN: F40, F40PF



PATTERN REPEATS EVERY 12.00 305 mm

87794694

Patented hidden hinge permits usual plated steel screw cover arrangement to b econverted to hinge cover system on all sizes except 12.00 in x 12.00 in. (305mm x 305mm).

Straight Sections

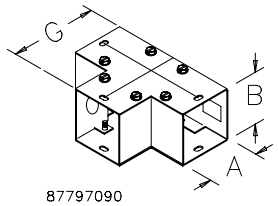
Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F22G12WK	2.50 x 2.50 x 12.00	64 x 64 x 305	8	—	1.06	27	3.00	76	6.00	152
F22G12	2.50 x 2.50 x 12.00	64 x 64 x 305	—	—	—	—	—	—	—	—
F22G24WK	2.50 x 2.50 x 24.00	64 x 64 x 610	16	—	1.06	27	6.00	152	12.00	305
F22G24	2.50 x 2.50 x 24.00	64 x 64 x 610	—	—	—	—	—	—	—	—
F22G36WK	2.50 x 2.50 x 36.00	64 x 64 x 914	24	—	1.06	27	6.00	152	12.00	305
F22G36	2.50 x 2.50 x 36.00	64 x 64 x 914	—	—	—	—	—	—	—	—
F22G48WK	2.50 x 2.50 x 48.00	64 x 64 x 1219	32	—	1.06	27	6.00	152	12.00	305
F22G48	2.50 x 2.50 x 48.00	64 x 64 x 1219	—	—	—	—	—	—	—	—
F22G60WK	2.50 x 2.50 x 60.00	64 x 64 x 1524	40	—	1.06	27	6.00	152	12.00	305
F22G60	2.50 x 2.50 x 60.00	64 x 64 x 1524	—	—	—	—	—	—	—	—
F22G120WK	2.50 x 2.50 x 120.00	64 x 64 x 3048	80	—	1.06	27	6.00	152	12.00	305
F22G120	2.50 x 2.50 x 120.00	64 x 64 x 3048	—	—	—	—	—	—	—	—
F44G12WK	4.00 x 4.00 x 12.00	102 x 102 x 305	4	4	1.62	41	3.00	76	6.00	152
F44G12	4.00 x 4.00 x 12.00	102 x 102 x 305	—	—	—	—	—	—	—	—
F44G18	4.00 x 4.00 x 18.00	102 x 102 x 457	—	—	—	—	—	—	—	—
F44G24WK	4.00 x 4.00 x 24.00	102 x 102 x 610	8	8	1.62	41	6.00	152	12.00	305
F44G24	4.00 x 4.00 x 24.00	102 x 102 x 610	—	—	—	—	—	—	—	—
F44G36WK	4.00 x 4.00 x 36.00	102 x 102 x 914	12	12	1.62	41	6.00	152	12.00	305
F44G36	4.00 x 4.00 x 36.00	102 x 102 x 914	—	—	—	—	—	—	—	—
F44G48WK	4.00 x 4.00 x 48.00	102 x 102 x 1219	16	16	1.62	41	6.00	152	12.00	305
F44G48	4.00 x 4.00 x 48.00	102 x 102 x 1219	—	—	—	—	—	—	—	—
F44G60WK	4.00 x 4.00 x 60.00	102 x 102 x 1524	20	20	1.62	41	6.00	152	12.00	305
F44G60	4.00 x 4.00 x 60.00	102 x 102 x 1524	—	—	—	—	—	—	—	—
F44G72WK	4.00 x 4.00 x 72.00	102 x 102 x 1829	24	24	1.62	41	6.00	152	12.00	305
F44G72	4.00 x 4.00 x 72.00	102 x 102 x 1829	—	—	—	—	—	—	—	—
F44G96	4.00 x 4.00 x 96.00	102 x 102 x 2438	—	—	—	—	—	—	—	—
F44G120WK	4.00 x 4.00 x 120.00	102 x 102 x 3048	40	40	1.62	41	6.00	152	12.00	305
F44G120	4.00 x 4.00 x 120.00	102 x 102 x 3048	—	—	—	—	—	—	—	—
F66G12WK	6.00 x 6.00 x 12.00	152 x 152 x 305	4	4	1.62	41	3.00	76	6.00	152
F66G12	6.00 x 6.00 x 12.00	152 x 152 x 305	—	—	—	—	—	—	—	—
F66G18	6.00 x 6.00 x 18.00	152 x 152 x 457	—	—	—	—	—	—	—	—
F66G24WK	6.00 x 6.00 x 24.00	152 x 152 x 610	8	8	1.62	41	6.00	152	12.00	305
F66G24	6.00 x 6.00 x 24.00	152 x 152 x 610	—	—	—	—	—	—	—	—
F66G36WK	6.00 x 6.00 x 36.00	152 x 152 x 914	12	12	1.62	41	6.00	152	12.00	305
F66G36	6.00 x 6.00 x 36.00	152 x 152 x 914	—	—	—	—	—	—	—	—
F66G48WK	6.00 x 6.00 x 48.00	152 x 152 x 1219	16	16	1.62	41	6.00	152	12.00	305
F66G48	6.00 x 6.00 x 48.00	152 x 152 x 1219	—	—	—	—	—	—	—	—
F66G60WK	6.00 x 6.00 x 60.00	152 x 152 x 1524	20	20	1.62	41	6.00	152	12.00	305
F66G60	6.00 x 6.00 x 60.00	152 x 152 x 1524	—	—	—	—	—	—	—	—
F66G72WK	6.00 x 6.00 x 72.00	152 x 152 x 1829	24	24	1.62	41	6.00	152	12.00	305
F66G72	6.00 x 6.00 x 72.00	152 x 152 x 1829	—	—	—	—	—	—	—	—
F66G96	6.00 x 6.00 x 96.00	152 x 152 x 2438	—	—	—	—	—	—	—	—
F66G120WK	6.00 x 6.00 x 120.00	152 x 152 x 3048	40	40	1.62	41	6.00	152	12.00	305
F66G120	6.00 x 6.00 x 120.00	152 x 152 x 3048	—	—	—	—	—	—	—	—
F88G12	8.00 x 8.00 x 12.00	203 x 203 x 305	—	—	—	—	—	—	—	—
F88G18	8.00 x 8.00 x 18.00	203 x 203 x 457	—	—	—	—	—	—	—	—
F88G24	8.00 x 8.00 x 24.00	203 x 203 x 610	—	—	—	—	—	—	—	—
F88G36	8.00 x 8.00 x 36.00	203 x 203 x 914	—	—	—	—	—	—	—	—
F88G48	8.00 x 8.00 x 48.00	203 x 203 x 1219	—	—	—	—	—	—	—	—
F88G60	8.00 x 8.00 x 60.00	203 x 203 x 1524	—	—	—	—	—	—	—	—
F88G72	8.00 x 8.00 x 72.00	203 x 203 x 1829	—	—	—	—	—	—	—	—
F88G96	8.00 x 8.00 x 96.00	203 x 203 x 2438	—	—	—	—	—	—	—	—
F88G120	8.00 x 8.00 x 120.00	203 x 203 x 3048	—	—	—	—	—	—	—	—
F1010G12	10.00 x 10.00 x 12.00	254 x 254 x 305	—	—	—	—	—	—	—	—
F1010G24	10.00 x 10.00 x 24.00	254 x 254 x 610	—	—	—	—	—	—	—	—
F1010G36	10.00 x 10.00 x 36.00	254 x 254 x 914	—	—	—	—	—	—	—	—
F1010G48	10.00 x 10.00 x 48.00	254 x 254 x 1219	—	—	—	—	—	—	—	—
F1010G60	10.00 x 10.00 x 60.00	254 x 254 x 1524	—	—	—	—	—	—	—	—
F1010G72	10.00 x 10.00 x 72.00	254 x 254 x 1829	—	—	—	—	—	—	—	—
F1010G96	10.00 x 10.00 x 96.00	254 x 254 x 2438	—	—	—	—	—	—	—	—
F1010G120	10.00 x 10.00 x 120.00	254 x 254 x 3048	—	—	—	—	—	—	—	—
F1212G12	12.00 x 12.00 x 12.00	305 x 305 x 305	—	—	—	—	—	—	—	—
F1212G12H	12.00 x 12.00 x 12.00	305 x 305 x 305	—	—	—	—	—	—	—	—
F1212G24	12.00 x 12.00 x 24.00	305 x 305 x 610	—	—	—	—	—	—	—	—
F1212G24H	12.00 x 12.00 x 24.00	305 x 305 x 610	—	—	—	—	—	—	—	—
F1212G36	12.00 x 12.00 x 36.00	305 x 305 x 914	—	—	—	—	—	—	—	—
F1212G36H	12.00 x 12.00 x 36.00	305 x 305 x 914	—	—	—	—	—	—	—	—
F1212G48	12.00 x 12.00 x 48.00	305 x 305 x 1219	—	—	—	—	—	—	—	—
F1212G48H	12.00 x 12.00 x 48.00	305 x 305 x 1219	—	—	—	—	—	—	—	—
F1212G60	12.00 x 12.00 x 60.00	305 x 305 x 1524	—	—	—	—	—	—	—	—
F1212G60H	12.00 x 12.00 x 60.00	305 x 305 x 1524	—	—	—	—	—	—	—	—
F1212G72	12.00 x 12.00 x 72.00	305 x 305 x 1829	—	—	—	—	—	—	—	—
F1212G72H	12.00 x 12.00 x 72.00	305 x 305 x 1829	—	—	—	—	—	—	—	—
F1212G96	12.00 x 12.00 x 96.00	305 x 305 x 2438	—	—	—	—	—	—	—	—
F1212G120	12.00 x 12.00 x 120.00	305 x 305 x 3048	—	—	—	—	—	—	—	—
F1212G120H	12.00 x 12.00 x 120.00	305 x 305 x 3048	—	—	—	—	—	—	—	—

F1212GXX catalog numbers without "H" are not hinged. F1212GXXH catalog numbers are hinged.

90-DEGREE FLUSH TEE

For flush mounting against a vertical or horizontal surface.

BULLETIN: F40PF



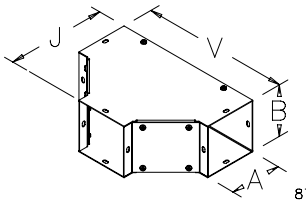
87797090

Catalog Number	AxB in./mm	G in./mm
F22GT	2.50 x 2.50 64 x 64	4.50 114
F33GT	3.00 x 3.00 76 x 76	5.00 127
F44GT	4.00 x 4.00 102 x 102	6.00 152
F66GT	6.00 x 6.00 152 x 152	8.00 203
F88GT	8.00 x 8.00 203 x 203	10.00 254
F1010GT	10.00 x 10.00 254 x 254	12.00 305
F1212GT	12.00 x 12.00 305 x 305	14.00 356

SWEEP TEE

For large radius turns. Mounts against vertical or horizontal surfaces. Top and inside covers removable.

BULLETIN: F40PF



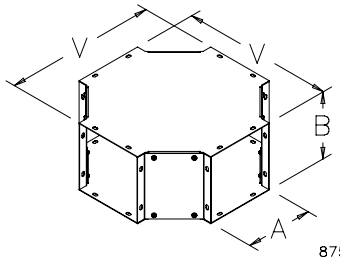
87574005

Catalog Number	AxB in./mm	J in./mm	V in./mm
F22T	2.50 x 2.50 64 x 64	6.50 165	10.35 263
F44T	4.00 x 4.00 102 x 102	8.00 203	11.85 301
F66T	6.00 x 6.00 152 x 152	10.00 254	13.85 352
F88T	8.00 x 8.00 203 x 203	12.00 305	15.84 402
F1010T	10.00 x 10.00 254 x 254	14.00 356	17.84 453
F1212T	12.00 x 12.00 305 x 305	16.00 406	19.84 504

CROSS FITTING

For routing cables in four directions. Top, bottom and side covers removable.

BULLETIN: F40PF



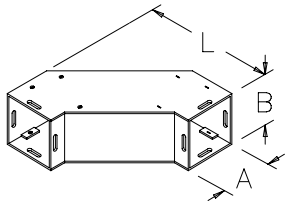
87574006

Catalog Number	AxB in./mm	V in./mm
F22X	2.50 x 2.50 64 x 64	10.35 263
F44X	4.00 x 4.00 102 x 102	11.85 301
F66X	6.00 x 6.00 152 x 152	13.85 352
F88X	8.00 x 8.00 203 x 203	15.84 402
F1010X	10.00 x 10.00 254 x 254	17.84 453
F1212X	12.00 x 12.00 305 x 305	19.84 504

90-DEGREE SWEEP ELBOW

For large radius turns.

BULLETIN: F40PF



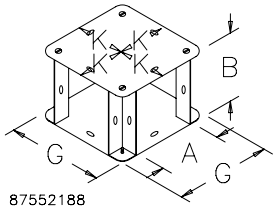
87797091

Catalog Number	AxB in./mm	L in./mm
F22G90SE	2.50 x 2.50 64 x 64	7.91 201
F44G90SE	4.00 x 4.00 102 x 102	9.41 239
F66G90SE	6.00 x 6.00 152 x 152	11.34 288
F88G90SE	8.00 x 8.00 203 x 203	13.44 341
F1010G90SE	10.00 x 10.00 254 x 254	15.62 395
F1212G90SE	12.00 x 12.00 305 x 305	17.44 443

90-DEGREE ELBOW-TEE-CROSS

Forms left or right 90-degree turns. Can be used as a tee or cross. Use with open adapter for cable entrance in top and bottom. Includes two closure plates.

BULLETIN: F40PF

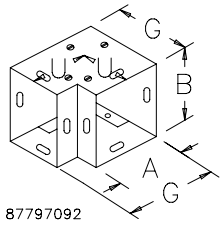


Catalog Number	AxB in./mm	G in./mm	K in./mm
F22G90TX	2.50 x 2.50 64 x 64	4.50 114	2.25 57
F33G90TX	3.00 x 3.00 76 x 76	5.00 127	2.50 64
F44G90TX	4.00 x 4.00 102 x 102	6.00 152	3.00 76
F66G90TX	6.00 x 6.00 152 x 152	8.00 203	4.00 102
F88G90TX	8.00 x 8.00 203 x 203	10.00 254	5.00 127
F1010G90TX	10.00 x 10.00 254 x 254	12.00 305	6.00 152
F1212G90TX	12.00 x 12.00 305 x 305	14.00 356	7.00 178

90-DEGREE ELBOW

Any side can be removed, retaining lay-in feature regardless of how the elbow is oriented. Sides are held together with screws.

BULLETIN: F40PF

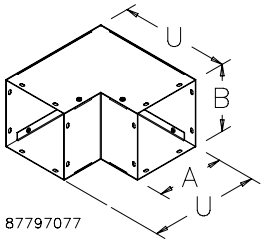


Catalog Number	AxB in./mm	G in./mm
F22G90E	2.50 x 2.50 64 x 64	4.50 114
F33G90E	3.00 x 3.00 76 x 76	5.00 127
F44G90E	4.00 x 4.00 102 x 102	6.00 152
F66G90E	6.00 x 6.00 152 x 152	8.00 203
F88G90E	8.00 x 8.00 203 x 203	10.00 254
F1010G90E	10.00 x 10.00 254 x 254	12.00 305
F1212G90E	12.00 x 12.00 305 x 305	14.00 356

90-DEGREE ELBOW—OUTSIDE OPENING

For continuous run with 90-degree turns. Top, bottom and outside covers removable.

BULLETIN: F40PF

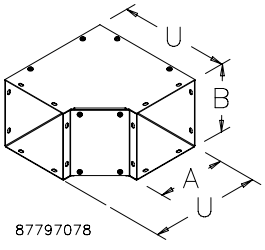


Catalog Number	AxB in./mm	U in./mm
F2290EOUT	2.50 x 2.50 64 x 64	6.50 165
F4490EOUT	4.00 x 4.00 102 x 102	8.00 203
F6690EOUT	6.00 x 6.00 152 x 152	10.00 254
F8890EOUT	8.00 x 8.00 203 x 203	12.00 305
F101090EOUT	10.00 x 10.00 254 x 254	14.00 356
F121290EOUT	12.00 x 12.00 305 x 305	16.00 406

90-DEGREE ELBOW—INSIDE OPENING

For continuous run with 90-degree turns. Top and inside covers removable.

BULLETIN: F40PF

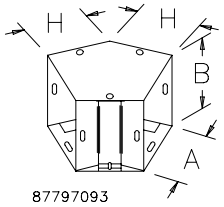


Catalog Number	AxB in./mm	U in./mm
F2290EIN	2.50 x 2.50 64 x 64	6.50 165
F4490EIN	4.00 x 4.00 102 x 102	8.00 203
F6690EIN	6.00 x 6.00 152 x 152	10.00 254
F8890EIN	8.00 x 8.00 203 x 203	12.00 305
F101090EIN	10.00 x 10.00 254 x 254	14.00 356
F121290EIN	12.00 x 12.00 305 x 305	16.00 406

45-DEGREE ELBOW

For continuous run with 45-degree turns. Top and inside covers removable.

BULLETIN: F40PF

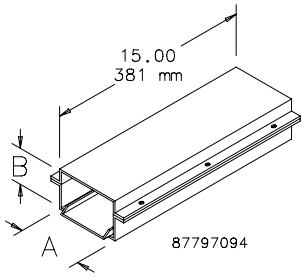


Catalog Number	AxB in./mm	H in./mm
F22G45E	2.50 x 2.50 64 x 64	2.75 70
F33G45E	3.00 x 3.00 76 x 76	2.99 76
F44G45E	4.00 x 4.00 102 x 102	3.38 86
F66G45E	6.00 x 6.00 152 x 152	4.25 108
F88G45E	8.00 x 8.00 203 x 203	5.06 129
F1010G45E	10.00 x 10.00 254 x 254	6.00 152
F1212G45E	12.00 x 12.00 305 x 305	6.75 171

TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40PF



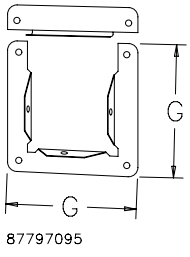
Catalog Number	AxB in./mm
F22GA	2.50 x 2.50 64 x 64
F44GA	4.00 x 4.00 102 x 102
F66GA	6.00 x 6.00 152 x 152
F88GA	8.00 x 8.00 203 x 203
F1010GA	10.00 x 10.00 254 x 254
F1212GA	12.00 x 12.00 305 x 305

These items not UL/cUL listed.

OPEN ADAPTER

Used with the 90-Degree Elbow-Tee-Cross fitting to permit a run directly up or down.

BULLETIN: F40PF

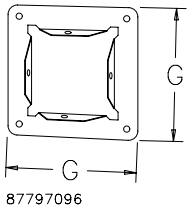


Catalog Number	G (in.)	G (mm)
F22GOA	4.50	114
F44GOA	6.00	152
F66GOA	8.00	203
F88GOA	10.00	254
F1010GOA	12.00	305
F1212GOA	14.00	356

PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40PF

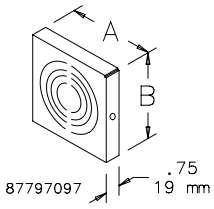


Catalog Number	G (in.)	G (mm)
F22GPA	4.50	114
F33GPA	5.00	127
F44GPA	6.00	152
F66GPA	8.00	203
F88GPA	10.00	254
F1010GPA	12.00	305
F1212GPA	14.00	356

CLOSURE PLATE

Closes the end of a wireway section or run.

BULLETIN: F40PF

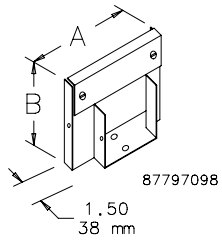


Catalog Number	AxB in.	AxB mm	Knockouts
F22GCP	2.50 x 2.50	64 x 64	With knockouts
F22GCPNK	2.50 x 2.50	64 x 64	Without knockouts
F44GCP	4.00 x 4.00	102 x 102	With knockouts
F33GCPNK	3.00 x 3.00	76 x 76	Without knockouts
F44GCPNK	4.00 x 4.00	102 x 102	Without knockouts
F66GCP	6.00 x 6.00	152 x 152	With knockouts
F66GCPNK	6.00 x 6.00	152 x 152	Without knockouts
F88GCP	8.00 x 8.00	203 x 203	With knockouts
F88GCPNK	8.00 x 8.00	203 x 203	Without knockouts
F1010GCP	10.00 x 10.00	254 x 254	With knockouts
F1010GCPNK	10.00 x 10.00	254 x 254	Without knockouts
F1212GCP	12.00 x 12.00	305 x 305	With knockouts
F1212GCPNK	12.00 x 12.00	305 x 305	Without knockouts

REDUCER

Reduces wireway to a smaller size.

BULLETIN: F40PF



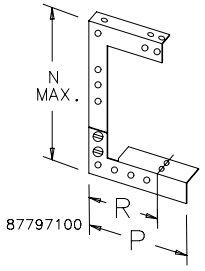
Catalog Number	AxB in./mm
F33G22R	3.00 x 3.00 76 x 76
F44G22R	4.00 x 4.00 102 x 102
F44G33R	4.00 x 4.00 101 x 101
F66G44R	6.00 x 6.00 152 x 152
F88G66R	8.00 x 8.00 203 x 203
F1010G88R	10.00 x 10.00 254 x 254
F1212G88R	12.00 x 12.00 305 x 305
F1212G1010R	12.00 x 12.00 305 x 305

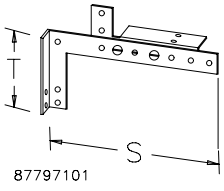
DROP AND BRACKET HANGERS

Drop and bracket hangers support a wireway run.

BULLETIN: F40PF

Catalog Number	N max. (in.)	N max. (mm)	P (in.)	P (mm)	R (in.)	R (mm)	S (in.)	S (mm)	T (in.)	T (mm)
F22GDB	8.50	216	4.50	114	3.38	86	7.25	184	3.75	95
F44GDB	10.50	267	6.00	152	4.12	105	9.25	235	4.50	114
F66GDB	15.00	381	7.12	181	5.12	130	13.75	349	5.50	140
F88GDB	21.00	533	10.81	275	7.00	178	13.75	349	7.75	197
F1010GDB	22.00	559	13.81	335	8.38	213	13.75	349	10.25	260
F1212GDB	23.00	584	15.56	395	9.78	248	13.75	349	12.50	318

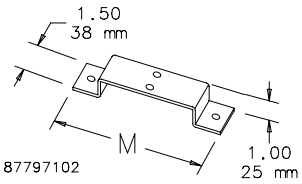




SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40PF

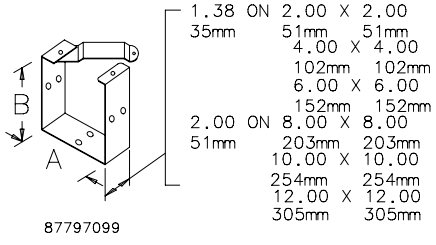


Catalog Number	AxB in./mm	M in./mm
F22GSH	2.50 x 2.50 64 x 64	4.62 117
F44GSH	4.00 x 4.00 102 x 102	6.12 155
F66GSH	6.00 x 6.00 152 x 152	8.12 206
F88GSH	8.00 x 8.00 203 x 203	10.12 257
F1010GSH	10.00 x 10.00 254 x 254	12.12 308
F1212GSH	12.00 x 12.00 305 x 305	14.12 359

UNIVERSAL U-CONNECTOR

Joins wireway sections and fittings. Top swings aside to retain the lay-in feature. One U-connector required at each wireway joint except telescope fittings, panel adapters, open adapters, closure plates or reducers.

BULLETIN: F40PF



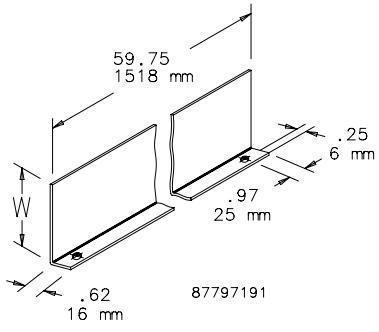
Catalog Number	AxB in./mm
F22GUC	2.50 x 2.50 64 x 64
F33GUC	3.00 x 3.00 76 x 76
F44GUC	4.00 x 4.00 102 x 102
F66GUC	6.00 x 6.00 152 x 152
F88GUC	8.00 x 8.00 203 x 203
F1010GUC	10.00 x 10.00 254 x 254
F1212GUC	12.00 x 12.00 305 x 305

BARRIER KIT, BOLT-ON

Divides wireway into two or more compartments. Barriers are fastened to wireway sections with screws. Sealing washers are included.

BULLETIN: F20

Catalog Number	W in./mm
F33BK60	2.00 51
F44BK60	3.00 76
F66BK60	4.50 114
F88BK60	6.00 152



nVent | HOFFMAN

LAY-IN WIREWAY, NEMA TYPE 3R

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524; Raintight

NEMA/EEMAC Type 3R
CSA File No. 42184, Type 3R
IEC 60529, IP32

APPLICATION

This moistureproof wireway features a quick-release latch cover for convenient access and an opening on one side so wires and cables can be laid in along the entire run without pulling.

FEATURES

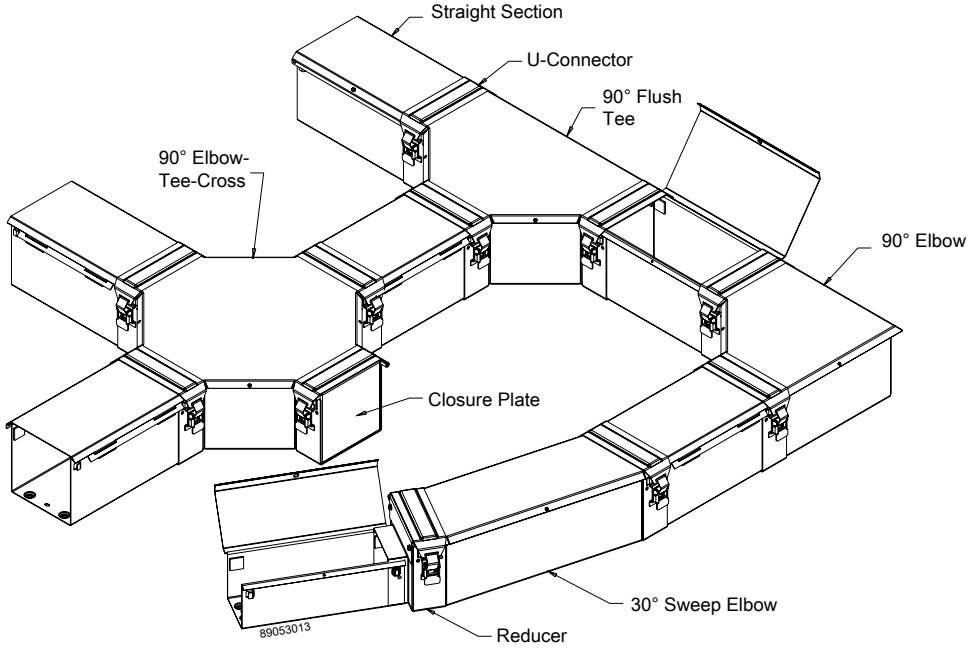
- Open top assembly
- Self-connecting system
- Removable covers with quick-release latches

SPECIFICATIONS

- 16 or 14 gauge galvanized steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.



Standard Product **Selection Matrix**

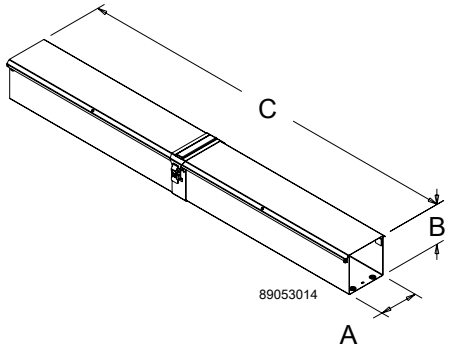
Description	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)
12.00-in. (305-mm) Straight Section[a]	F44T3R12	F66T3R12	F88T3R12
60.00-in. (1524-mm) Straight Section[a]	F44T3R60	F66T3R60	F88T3R60
120.00-in. (3048-mm) Straight Section[a]	F44T3R120	F66T3R120	F88T3R120
90° Flush Tee	F44T3RT	F66T3RT	F88T3RT
30° Sweep Elbow	F44T3R30SE	F66T3R30SE	F88T3R30SE
90° Elbow-Tee-Cross	F44T3RTX	F66T3RTX	F88T3RTX
90° Elbow	F44T3R90E	F66T3R90E	F88T3R90E
Panel Adapter	F44T3RPA	F66T3RPA	F88T3RPA
Closure Plate	F44T3RCP	F66T3RCP	F88T3RCP
Reducer	—	F66T3R44R	F88T3R66R
Drop and Bracket Hanger	F44T3RDH	F66T3RDH	F88T3RDH
Wall Hanger	F44T3RWH	F66T3RWH	F88T3RWH
Universal U-Connector	F44T3RUC	F66T3RUC	F88T3RUC

STRAIGHT SECTION

Available in lengths from 12 in. (305 mm) to 120 in. (3038 mm).

BULLETIN: F30G

Catalog Number	AxBxC in.	AxBxC mm
F44T3R12	4.00 x 4.00 x 12.00	102 x 102 x 305
F44T3R60	4.00 x 4.00 x 60.00	102 x 102 x 1524
F44T3R120	4.00 x 4.00 x 120.00	102 x 102 x 3048
F66T3R12	6.00 x 6.00 x 12.00	152 x 152 x 305
F66T3R60	6.00 x 6.00 x 60.00	152 x 152 x 1524
F66T3R120	6.00 x 6.00 x 120.00	152 x 152 x 3048
F88T3R12	8.00 x 8.00 x 12.00	203 x 203 x 305
F88T3R60	8.00 x 8.00 x 60.00	203 x 203 x 1524
F88T3R120	8.00 x 8.00 x 120.00	203 x 203 x 3048

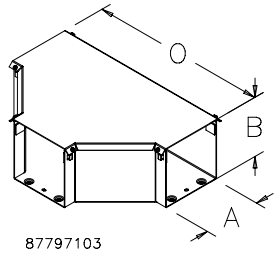


90-DEGREE FLUSH TEE

Use whenever flush mounting against a vertical surface is required.

BULLETIN: F30G

Catalog Number	AxB in./mm	O in./mm
F44T3RT	4.00 x 4.00 102 x 102	16.00 406
F66T3RT	6.00 x 6.00 152 x 152	18.00 457
F88T3RT	8.00 x 8.00 203 x 203	20.00 508

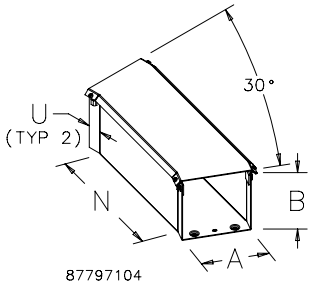


30-DEGREE SWEEP ELBOW

When a large radius is needed, use this sweep elbow.

BULLETIN: F30G

Catalog Number	AxB in./mm	N in./mm	U in./mm
F44T3R30SE	4.00 x 4.00 102 x 102	13.00 330	1.25 31
F66T3R30SE	6.00 x 6.00 152 x 152	13.00 330	1.25 31
F88T3R30SE	8.00 x 8.00 203 x 203	13.00 330	1.25 31

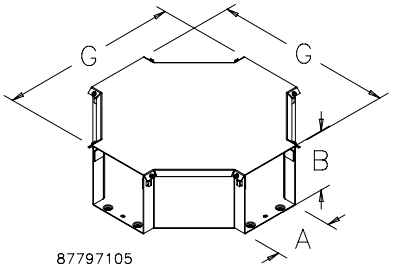


90-DEGREE CROSS

Use when there are four branches. It can be used as a 90-degree elbow or a 90-degree flush tee by adding Closure Plates.

BULLETIN: F30G

Catalog Number	AxB in./mm	G in./mm
F44T3RTX	4.00 x 4.00 102 x 102	16.00 406
F66T3RTX	6.00 x 6.00 152 x 152	18.00 457
F88T3RTX	8.00 x 8.00 203 x 203	20.00 508

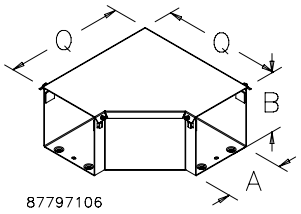


90-DEGREE ELBOW

Used whenever a right-angle installation is needed.

BULLETIN: F30G

Catalog Number	AxB in./mm	Q in./mm
F44T3R90E	4.00 x 4.00 102 x 102	10.00 254
F66T3R90E	6.00 x 6.00 152 x 152	12.00 305
F88T3R90E	8.00 x 8.00 203 x 203	14.00 356

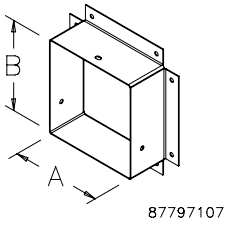


PANEL ADAPTER

Allows the wireway to be securely connected to an enclosure.

BULLETIN: F30G

Catalog Number	AxB in./mm
F44T3RPA	4.00 x 4.00 102 x 102
F66T3RPA	6.00 x 6.00 152 x 152
F88T3RPA	8.00 x 8.00 203 x 203

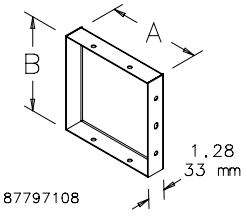


CLOSURE PLATE

Closes the end of a wireway section or run. A U-connector must be used in combination with a closure plate to close the end of a wireway section or run.

BULLETIN: F30G

Catalog Number	AxB in./mm
F44T3RCP	4.00 x 4.00 102 x 102
F66T3RCP	6.00 x 6.00 152 x 152
F88T3RCP	8.00 x 8.00 203 x 203

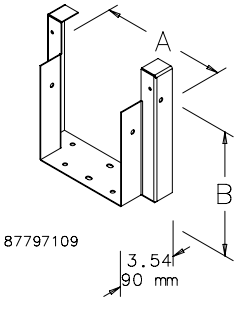


REDUCER

Used to reduce to a smaller wireway size.

BULLETIN: F30G

Catalog Number	AxB in./mm
F66T3R44R	6.00 x 6.00 152 x 152
F88T3R66R	8.00 x 8.00 203 x 203

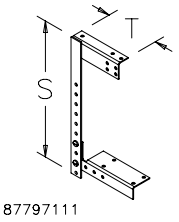


DROP AND BRACKET HANGER

Used to support a wireway run.

BULLETIN: F30G

Catalog Number	AxB in./mm	S in./mm	T in./mm
F44T3RDH	4.00 x 4.00 102 x 102	9.50 241	4.50 114
F66T3RDH	6.00 x 6.00 152 x 152	14.00 356	5.50 140
F88T3RDH	8.00 x 8.00 203 x 203	14.00 356	8.00 203



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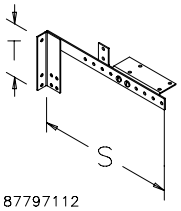

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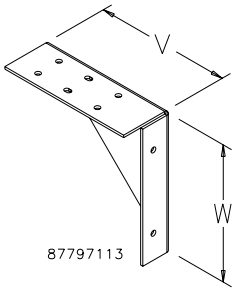
WALL HANGER

Used to support a wireway run.

BULLETIN: F30G

Catalog Number	V in./mm	W in./mm
F44T3RWH	5.00 127	5.00 127
F66T3RWH	7.00 178	7.00 178
F88T3RWH	9.00 229	9.00 229



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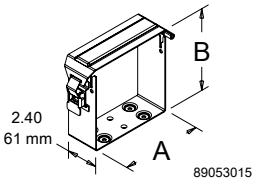
U-CONNECTOR

Used to rigidly join fittings to straight sections.

BULLETIN: F30G

Catalog Number	AxB in./mm
F44T3RUC	4.00 x 4.00 102 x 102
F66T3RUC	6.00 x 6.00 152 x 152
F88T3RUC	8.00 x 8.00 203 x 203



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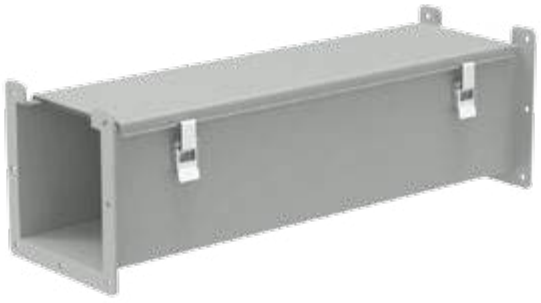
LAY-IN WIREWAY, NEMA TYPE 12



APPLICATION

Used primarily in industrial applications to protect wiring against exposure to oil and other contaminants, this gasketed wireway features quick-release latches for easy access and an opening on one side so wires and cables can be laid in along the entire run without pulling. Available in multiple sizes, this wireway's finish color and texture can be customized to meet application requirements.

FEATURES

- Seams continuously welded and ground smooth
- No holes or knockouts
- Smooth, rounded edges on all sections and fittings
- Butt hinges and strong latches
- Quick-release cover latches
- Oil-resistant gasket and adhesive
- Gasketed quick-release sealing plate

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524

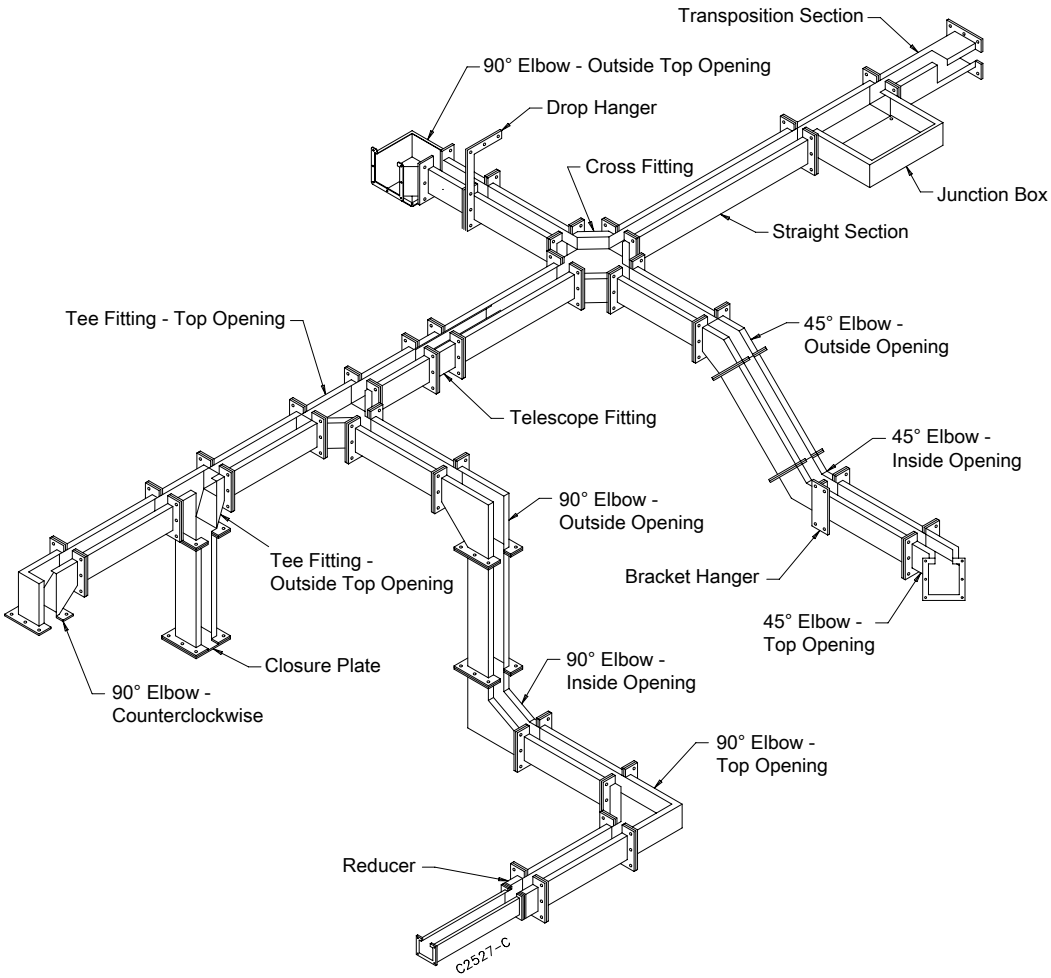
NEMA/EEMAC Type 12
JIC standards EGP-1-1967 and EMP-1-1967
CSA, File No. 42184, Type 1
IEC 60529, IP54

SPECIFICATIONS

- 14 gauge steel covers and bodies
- 10 gauge steel end flanges

FINISH

- ANSI 61 gray polyester powder finish inside and out over pretreated surfaces
- Box connector is gray ANSI 61
- LSGQR sealing plate and quick-release latches are plated



Standard Product **Selection Matrix**

Description	Sealing Plates[a] Type	Sealing Plates[a] Qty.	2.50 x 2.50 in. (64 x 64 mm)	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)	12.00 x 6.00 in. (305 x 152 mm)
6.00-in. (152-mm) Straight Section	Flat	1	F22L06[c,d]	F44L06[c,d]	F66L06[c,d]	F88L06[c,d]	F126L06[c,d]
12.00-in. (305-mm) Straight Section	Flat	1	F22L12[c,d]	F44L12[c,d]	F66L12[c,d]	F88L12[c,d]	F126L12[c,d]
24.00-in. (610-mm) Straight Section	Flat	1	F22L24[c,d]	F44L24[c,d]	F66L24[c,d]	F88L24[c,d]	F126L24[c,d]
36.00-in. (914-mm) Straight Section	Flat	1	F22L36[c,d]	F44L36[c,d]	F66L36[c,d]	F88L36[c,d]	F126L36[c,d]
48.00-in. (1219-mm) Straight Section	Flat	1	F22L48[c,d]	F44L48[c,d]	F66L48[c,d]	F88L48[c,d]	F126L48[c,d]
60.00-in. (1524-mm) Straight Section	Flat	1	F22L60[c,d]	F44L60[c,d]	F66L60[c,d]	F88L60[c,d]	F126L60[c,d]
120.00-in. (3048-mm) Straight Section	Flat	1	F22L120[c,d]	F44L120[c,d]	F66L120[c,d]	F88L120[c,d]	F126L120[c,d]
Cutoff Fitting, Lay-In	Flat	1	F22LXL	F44LXL	F66LXL	F88LXL	F126LXL
Cutoff Fitting, Not Lay-In	90° Angle	1	F22LX	F44LX	F66LX	F88LX	F126LX
Telescope Fitting, Lay-In	Special	1	F22LA	F44LA	F66LA	F88LA	F126LA
Cross Fitting	Flat	3	F22LC[c,d]	F44LC[c,d]	F66LC[c,d]	F88LC[c,d]	F126LC[c,d]
90° Elbow, top opening	Flat	1	F22LE9A[c,d]	F44LE9A[c,d]	F66LE9A[c,d]	F88LE9A[c,d]	F126LE9A[c,d]
90° Elbow, inside opening	Flat	1	F22LE9B[c,d]	F44LE9B[c,d]	F66LE9[c,d]	F88LE9B[c,d]	F126LE9B[c,d]
90° Elbow, outside opening	Flat	1	F22LE9C[c,d]	F44LE9C[c,d]	F66LE9C[c,d]	F88LE9C[c,d]	F126LE9C[c,d]
90° Elbow, outside top opening	Flat	2	—	F44LE9AC[c,d]	F66LE9AC[c,d]	F88LE9AC[c,d]	—
45° Elbow, top opening	Flat	1	F22LE45A[c,d]	F44LE45A[c,d]	F66LE45A[c,d]	F88LE45A[c,d]	F126LE45A[c,d]
45° Elbow, inside opening	Flat	1	F22LE45B[c,d]	F44LE45B[c,d]	F66LE45B[c,d]	F88LE45B[c,d]	—
45° Elbow, outside opening	Flat	1	F22LE45C[c,d]	F44LE45C[c,d]	F66LE45C[c,d]	F88LE45C[c,d]	—
Tee Fitting, top opening	Flat	2	F22LTA[c,d]	F44LTA[c,d]	F66LTA[c,d]	F88LTA[c,d]	F126LTA[c,d]
Tee Fitting, outside top opening	Flat	2	F22LTC[c,d]	F44LTC[c,d]	F66LTC[c,d]	F88LTC[c,d]	—
Junction Box	Flat	1	F22LJ[c,d]	F44LJ[c,d]	F66LJ[c,d]	F88LJ[c,d]	—
Closure Plate	90°	1	F22LP	F44LP	F66LP	F88LP	—
Box Connector	90°	1	F22LB	F44LB	F66LB	F88LB	—
Reducer 4.00 x 4.00 to 2.50 x 2.50 (102 x 102) to (64 x 64)	None	0	—	F44LRE2	—	—	—
Reducer 6.00 x 6.00 to 4.00 x 4.00 (152 x 152) to (102 x 102	None	0	—	—	F66LRE44[c,d]	—	—
Reducer 8.00 x 8.00 to 6.00 x 6.00 (203 x 203) to (152 x 152)	None	0	—	—	—	F88LRE66[d]	—
Reducer 12.00 x 6.00 to 6.00 x 6.00 (305 x 152) to (152 x 152)	None	0	—	—	—	—	F126LRE66[c,d]
Reducer 12.00 x 6.00 to 4.00 x 4.00 (305 x 152) to (102 x 102)	None	0	—	—	—	—	F126LRE44[c,d]
1.00-in. (25-mm) Nipple	Special	1	F22LN1[c,d]	F44LN1[c,d]	F66LN1[c,d]	—	—
2.00-in. (51-mm) Nipple	Special	1	F22LN2[c,d]	F44LN2[c,d]	F66LN2[c,d]	—	—
3.00-in. (76-mm) Nipple	Special	1	F22LN3[c,d]	F44LN3[c,d]	F66LN3[c,d]	—	—
Drop Hanger	None	0	F22HD	F44HD	F66HD	F88HD	—
Bracket Hanger	None	0	F22HB	F44HB	F66HB	F88HB	—
Clockwise Transposition Section	Flat	1	F22LKT[c,d]	F44LKT[c,d]	F66LKT[c,d]	—	—
Counterclockwise Transposition Section	Flat	1	F22LKOKT[c,d]	F44LKOKT[c,d]	F66LKOKT[c,d]	—	—
90° Elbow, Clockwise Transposition	Flat	1	F22LE9KT[c,d]	F44LE9KT[c,d]	F66LE9KT[c,d]	F88LE9KT[c,d]	—
90° Elbow, Counterclockwise Transposition	Flat	1	F22LE9KOKT[c,d]	F44LE9KOKT[c,d]	F66LE9KOKT[c,d]	F88LE9KOKT[c,d]	—
Barrier Kit, bolt-on Each barrier 60.00 in. (1524 mm)	None	0	—	F44BK60	F66BK60	F88BK60	F66BK60
Barrier, bracket-mounted[b] Each barrier 60.00 in. (1524 mm)[b]	—	1 pkg. (5 pcs.)	—	F44B360	F66B560	—	—
Barrier Brackets, 2 compartment[b]	—	1 pkg. (5 pcs.)	—	F44BB2C	F66BB2C	—	—
Barrier Brackets, 3 compartment[b]	—	1 pkg. (5 pcs.)	—	F44BB3C	F66BB3C	—	—
Flat Sealing Plate[a]	—	—	F22LSGQR	F44LSGQR	F66LSGQR	F88LSGQR	F126LSGQR
90° Angle Sealing Plate[a]	—	—	F22LSAG	F44LSAG	F66LSAG	F88LSAG	F126LSAG

[a] Each sealing plate also includes one gasket and one set of screws to join sections.

[b] Package consists of five barriers or five brackets. Each barrier is 60-in. long.

[c] Certified by Canadian Standards Association.

[d] UL 870

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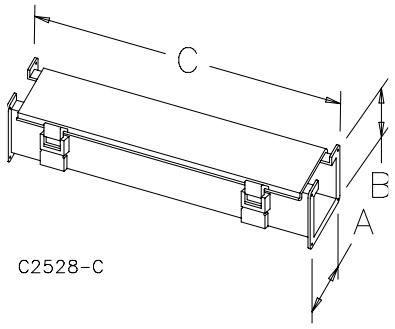
STRAIGHT SECTION

Available in lengths from 6.00 in. (152 mm) to 120.00 in. (3048 mm).

BULLETIN: F10

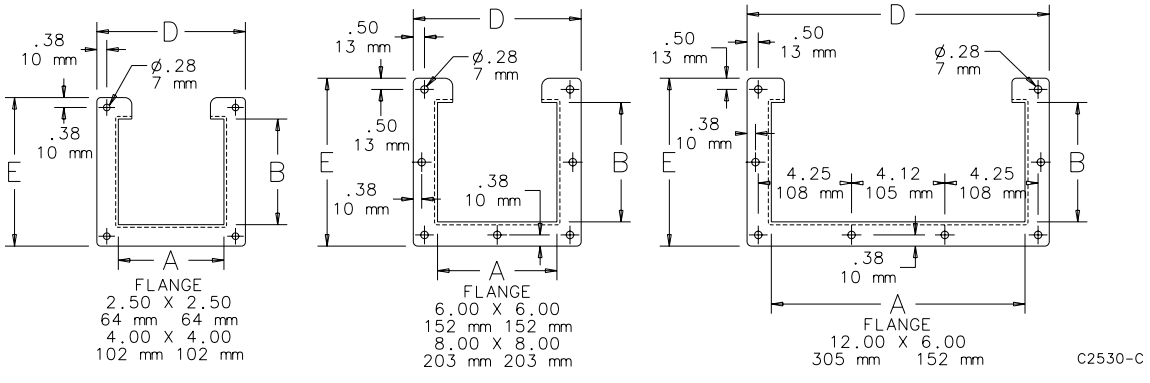


Straight Sections

Catalog Number	AxBxC in.	AxBxC mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	D (in.)	D (mm)	E (in.)	E (mm)
F22L06	2.50 x 2.50 x 6.00	64 x 64 x 152	Flat	1	3.88	99	3.88	99
F22L12	2.50 x 2.50 x 12.00	64 x 64 x 305	Flat	1	3.88	99	3.88	99
F22L24	2.50 x 2.50 x 24.00	64 x 64 x 610	Flat	1	3.88	99	3.88	99
F22L36	2.50 x 2.50 x 36.00	64 x 64 x 914	Flat	1	3.88	99	3.88	99
F22L48	2.50 x 2.50 x 48.00	64 x 64 x 1219	Flat	1	3.88	99	3.88	99
F22L60	2.50 x 2.50 x 60.00	64 x 64 x 1524	Flat	1	3.88	99	3.88	99
F22L120	2.50 x 2.50 x 120.00	64 x 64 x 3048	Flat	1	3.88	99	3.88	99
F44L06	4.00 x 4.00 x 6.00	102 x 102 x 152	Flat	1	5.38	137	5.38	137
F44L12	4.00 x 4.00 x 12.00	102 x 102 x 305	Flat	1	5.38	137	5.38	137
F44L24	4.00 x 4.00 x 24.00	102 x 102 x 610	Flat	1	5.38	137	5.38	137
F44L36	4.00 x 4.00 x 36.00	102 x 102 x 914	Flat	1	5.38	137	5.38	137
F44L48	4.00 x 4.00 x 48.00	102 x 102 x 1219	Flat	1	5.38	137	5.38	137
F44L60	4.00 x 4.00 x 60.00	102 x 102 x 1524	Flat	1	5.38	137	5.38	137
F44L120	4.00 x 4.00 x 120.00	102 x 102 x 3048	Flat	1	5.38	137	5.38	137
F66L06	6.00 x 6.00 x 6.00	152 x 152 x 152	Flat	1	7.62	194	7.62	194
F66L12	6.00 x 6.00 x 12.00	152 x 152 x 305	Flat	1	7.62	194	7.62	194
F66L24	6.00 x 6.00 x 24.00	152 x 152 x 610	Flat	1	7.62	194	7.62	194
F66L36	6.00 x 6.00 x 36.00	152 x 152 x 914	Flat	1	7.62	194	7.62	194
F66L48	6.00 x 6.00 x 48.00	152 x 152 x 1219	Flat	1	7.62	194	7.62	194
F66L60	6.00 x 6.00 x 60.00	152 x 152 x 1524	Flat	1	7.62	194	7.62	194
F66L120	6.00 x 6.00 x 120.00	152 x 152 x 3048	Flat	1	7.62	194	7.62	194
F88L06	8.00 x 8.00 x 6.00	203 x 203 x 152	Flat	1	9.62	244	9.62	244
F88L12	8.00 x 8.00 x 12.00	203 x 203 x 305	Flat	1	9.62	244	9.62	244
F88L24	8.00 x 8.00 x 24.00	203 x 203 x 610	Flat	1	9.62	244	9.62	244
F88L36	8.00 x 8.00 x 36.00	203 x 203 x 914	Flat	1	9.62	244	9.62	244
F88L48	8.00 x 8.00 x 48.00	203 x 203 x 1219	Flat	1	9.62	244	9.62	244
F88L60	8.00 x 8.00 x 60.00	203 x 203 x 1524	Flat	1	9.62	244	9.62	244
F88L120	8.00 x 8.00 x 120.00	203 x 203 x 3048	Flat	1	9.62	244	9.62	244
F126L06	12.00 x 6.00 x 6.00	305 x 152 x 152	Flat	1	13.62	346	7.62	194
F126L12	12.00 x 6.00 x 12.00	305 x 152 x 305	Flat	1	13.62	346	7.62	194
F126L24	12.00 x 6.00 x 24.00	305 x 152 x 610	Flat	1	13.62	346	7.62	194
F126L36	12.00 x 6.00 x 36.00	305 x 152 x 914	Flat	1	13.62	346	7.62	194
F126L48	12.00 x 6.00 x 48.00	305 x 152 x 1219	Flat	1	13.62	346	7.62	194
F126L60	12.00 x 6.00 x 60.00	305 x 152 x 1524	Flat	1	13.62	346	7.62	194
F126L120	12.00 x 6.00 x 120.00	305 x 152 x 3048	Flat	1	13.62	346	7.62	194

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



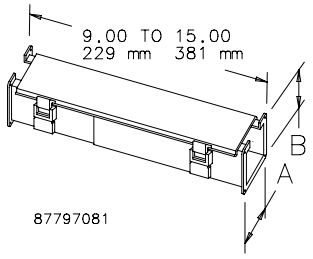
CUT-OFF FITTING, LAY-IN

For lengths of 9.00 in. (229 mm) to 15.00 in. (381 mm) only. Body comes in two pieces. Shorten body and cover to the desired length and weld together.

BULLETIN: F10

Catalog Number	AxB in.	AxB mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]
F22LXL	2.50 x 2.50	64 x 64	Flat	1
F44LXL	4.00 x 4.00	102 x 102	Flat	1
F66LXL	6.00 x 6.00	152 x 152	Flat	1
F88LXL	8.00 x 8.00	203 x 203	Flat	1
F126LXL	12.00 x 6.00	305 x 152	Flat	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections.



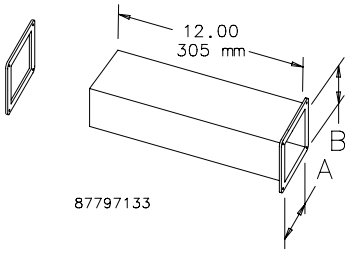
CUT-OFF FITTING, NON-LAY-IN

For lengths up to 12.00 in. (305 mm). Shorten body to desired length and weld on flange. This is not a "lay-in" fitting but often is used when entering an enclosure.

BULLETIN: F10

Catalog Number	AxB in.	AxB mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]
F22LX	2.50 x 2.50	64 x 64	90° Angle	1
F44LX	4.00 x 4.00	102 x 102	90° Angle	1
F66LX	6.00 x 6.00	152 x 152	90° Angle	1
F88LX	8.00 x 8.00	203 x 203	90° Angle	1
F126LX	12.00 x 6.00	305 x 152	90° Angle	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections.



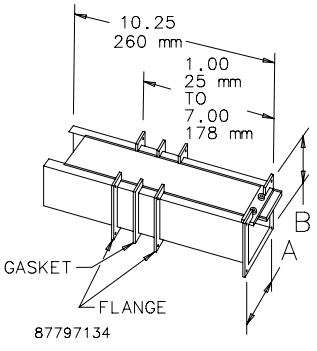
TELESCOPE FITTING, LAY-IN

Length is easily adjustable from 1.00 in. (25 mm) to 7.00 in. (178 mm). No cutting or welding required.

BULLETIN: F10

Catalog Number	AxB in.	AxB mm	Sealing Plates Type[a]	Sealing Plates Qty.[a]
F22LA	2.50 x 2.50	64 x 64	Special	1
F44LA	4.00 x 4.00	102 x 102	Special	1
F66LA	6.00 x 6.00	152 x 152	Special	1
F88LA	8.00 x 8.00	203 x 203	Special	1
F126LA	12.00 x 6.00	305 x 152	Special	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections



CROSS FITTING

Used when there are four branches, all open along the same side.

BULLETIN: F10

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	G in./mm	K in./mm
F22LC	2.50 x 2.50 64 x 64	Flat	3	8.50 216	4.25 108
F44LC	4.00 x 4.00 102 x 102	Flat	3	10.00 254	5.00 127
F66LC	6.00 x 6.00 152 x 152	Flat	3	12.00 305	6.00 152
F88LC	8.00 x 8.00 203 x 203	Flat	3	14.00 356	7.00 178
F126LC	12.00 x 6.00 305 x 152	Flat	3	18.00 457	9.00 229

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

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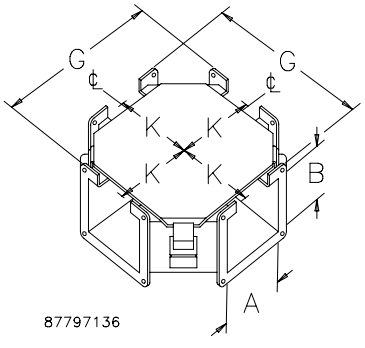


90-DEGREE ELBOWS

Because sections of lay-in wireway can be mounted with covers oriented in any direction, three different 90-degree elbows are available. Proper selection allows the user to maintain the same access and thereby preserve the lay-in feature for right-angle installations.

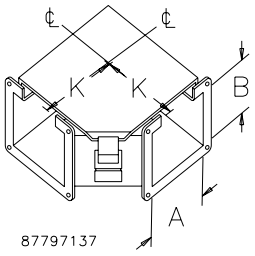
BULLETIN: F10

Top Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	K in./mm
F22LE9A	2.50 x 2.50 64 x 64	Flat	1	4.25 108
F44LE9A	4.00 x 4.00 102 x 102	Flat	1	5.00 127
F66LE9A	6.00 x 6.00 152 x 152	Flat	1	6.00 152
F88LE9A	8.00 x 8.00 203 x 203	Flat	1	7.00 178
F126LE9A	12.00 x 6.00 305 x 152	Flat	1	9.00 229

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

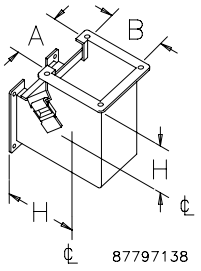


Inside Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	H in./mm
F22LE9B	2.50 x 2.50 64 x 64	Flat	1	4.25 108
F44LE9B	4.00 x 4.00 102 x 102	Flat	1	5.00 127
F66LE9B	6.00 x 6.00 152 x 152	Flat	1	6.00 152
F88LE9B	8.00 x 8.00 203 x 203	Flat	1	7.00 178
F126LE9B	12.00 x 6.00 305 x 152	Flat	1	6.00 152

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

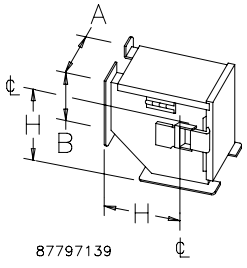


Outside Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	H in./mm
F22LE9C	2.50 x 2.50 64 x 64	Flat	1	4.25 108
F44LE9C	4.00 x 4.00 102 x 102	Flat	1	5.00 127
F66LE9C	6.00 x 6.00 152 x 152	Flat	1	6.00 152
F88LE9C	8.00 x 8.00 203 x 203	Flat	1	7.00 178
F126LE9C	12.00 x 6.00 305 x 152	Flat	1	6.00 152

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

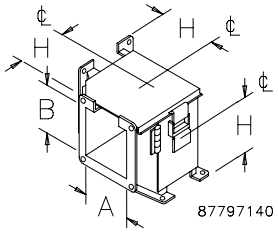
Certified by Canadian Standards Association.



90-DEGREE ELBOW—OUTSIDE TOP OPENING

This elbow fitting allows a vertical drop to equipment below at a 90-degree corner while maintaining the top opening lay-in feature.

BULLETIN: F10



Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	H in./mm
F44LE9AC	4.00 x 4.00 102 x 102	Flat	2	5.00 127
F66LE9AC	6.00 x 6.00 152 x 152	Flat	2	6.00 152
F88LE9AC	8.00 x 8.00 203 x 203	Flat	2	7.00 178

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

45-DEGREE ELBOWS

Because sections of lay-in wireway can be mounted with covers oriented in any direction, three different 45-degree elbows are available. Proper selection allows the user to maintain the same access and thereby preserve the lay-in feature for right-angle installations.

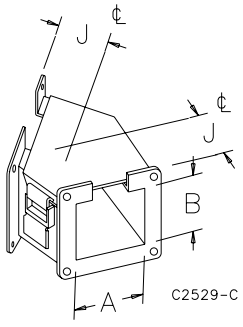
BULLETIN: F10

Top Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	J in./mm
F22LE45A	2.50 x 2.50 64 x 64	Flat	1	2.00 51
F44LE45A	4.00 x 4.00 102 x 102	Flat	1	2.44 62
F66LE45A	6.00 x 6.00 152 x 152	Flat	1	3.00 76
F88LE45A	8.00 x 8.00 203 x 203	Flat	1	3.75 95
F126LE45A	12.00 x 6.00 305 x 152	Flat	1	4.75 121

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

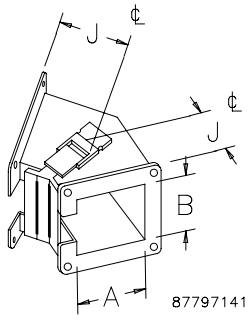


Inside Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	J in./mm
F22LE45B	2.50 x 2.50 64 x 64	Flat	1	2.00 51
F44LE45B	4.00 x 4.00 102 x 102	Flat	1	2.44 62
F66LE45B	6.00 x 6.00 152 x 152	Flat	1	3.00 76
F88LE45B	8.00 x 8.00 203 x 203	Flat	1	3.75 95

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

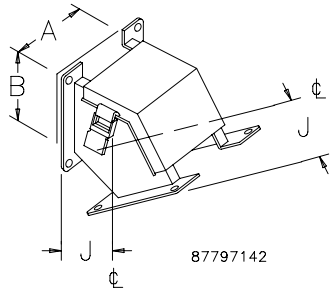


Outside Opening

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	J in./mm
F22LE45C	2.50 x 2.50 64 x 64	Flat	1	2.00 51
F44LE45C	4.00 x 4.00 102 x 102	Flat	1	2.44 62
F66LE45C	6.00 x 6.00 152 x 152	Flat	1	3.00 76
F88LE45C	8.00 x 8.00 203 x 203	Flat	1	3.75 95

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



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TEE FITTING—TOP OPENING

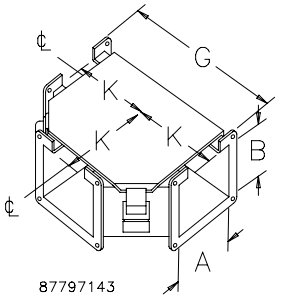
This fitting is used when the covers of all three branches of the wireway run are open along the same side.

BULLETIN: F10

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	G in./mm	K in./mm
F22LTA	2.50 x 2.50 64 x 64	Flat	2	8.50 216	4.25 108
F44LTA	4.00 x 4.00 102 x 102	Flat	2	10.00 254	5.00 127
F66LTA	6.00 x 6.00 152 x 152	Flat	2	12.00 305	6.00 152
F88LTA	8.00 x 8.00 203 x 203	Flat	2	14.00 356	7.00 178
F126LTA	12.00 x 6.00 305 x 152	Flat	2	18.00 457	9.00 229

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



TEE FITTING—OUTSIDE TOP OPENING

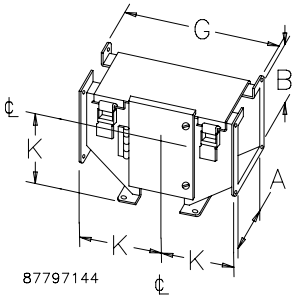
This fitting is used when the covers of two branches are on the same side and the third is on a different side.

BULLETIN: F10

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	G in./mm	K in./mm
F22LTC	2.50 x 2.50 64 x 64	Flat	2	8.50 216	4.25 108
F44LTC	4.00 x 4.00 102 x 102	Flat	2	10.00 254	5.00 127
F66LTC	6.00 x 6.00 152 x 152	Flat	2	12.00 305	6.00 152
F88LTC	8.00 x 8.00 203 x 203	Flat	2	14.00 356	7.00 178

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



JUNCTION BOX

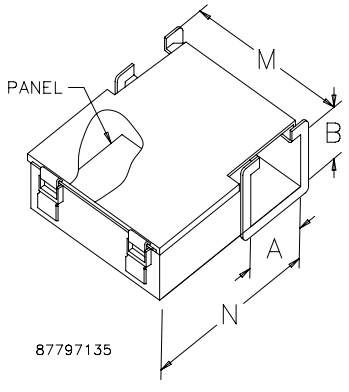
The junction box has a removable panel on which terminal blocks and other components may be mounted.

BULLETIN: F10

Catalog Number	AxB in./mm	Sealing Plates, Type	Sealing Plates, Qty.[a]	M in./mm	N in./mm	Removable Panel Size in./mm
F22LJ	2.50 x 2.50 64 x 64	Flat	1	12.00 305	10.25 260	8.75 x 6.88 222 x 175
F44LJ	4.00 x 4.00 102 x 102	Flat	1	14.00 356	13.88 353	10.75 x 8.88 273 x 225
F66LJ	6.00 x 6.00 152 x 152	Flat	1	16.00 406	17.88 454	12.75 x 10.88 324 x 276
F88LJ	8.00 x 8.00 203 x 203	Flat	1	18.00 457	21.88 556	14.75 x 12.88 375 x 327

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



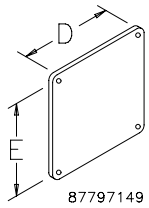
CLOSURE PLATE

Used to seal the end of a wireway section or run.

BULLETIN: F10

Catalog Number	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	D in./mm	E in./mm
F22LP	90°	1	3.88 99	3.88 99
F44LP	90°	1	5.38 137	5.38 137
F66LP	90°	1	7.62 194	7.62 194
F88LP	90°	1	9.62 244	9.62 244
F126LP	90°	1	13.62 346	7.62 194

[a]Each sealing plate also includes one gasket and one set of screws to join sections.



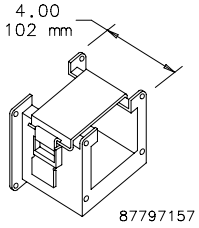
REDUCER

This fitting permits the lay-in feature to be retained when reducing to a smaller wireway size.

BULLETIN: F10

Catalog Number	Sealing Plates, Type	Sealing Plates, Qty.	From A x B in./mm	To A x B in./mm
F44LRE22	None	0	4.00 x 4.00 102 x 102	2.50 x 2.50 64 x 64
F66LRE44	None	0	6.00 x 6.00 152 x 152	4.00 x 4.00 102 x 102
F88LRE66	None	0	8.00 x 8.00 203 x 203	6.00 x 6.00 152 x 152
F126LRE66	None	0	12.00 x 6.00 305 x 152	6.00 x 6.00 152 x 152
F126LRE44	None	0	12.00 x 6.00 305 x 152	4.00 x 4.00 102 x 102

Certified by Canadian Standards Association.



NIPPLE

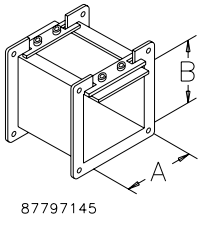
Available in lengths of 1.00 in. (25 mm), 2.00 in. (51 mm) and 3.00 in. (76 mm).

BULLETIN: F10

Catalog Number	AxBxC in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]
F22LN1	2.50 x 2.50 x 1.00 64 x 64 x 25	Special	1
F22LN2	2.50 x 2.50 x 2.00 64 x 64 x 51	Special	1
F22LN3	2.50 x 2.50 x 3.00 64 x 64 x 76	Special	1
F44LN1	4.00 x 4.00 x 1.00 102 x 102 x 25	Special	1
F44LN2	4.00 x 4.00 x 2.00 102 x 102 x 51	Special	1
F44LN3	4.00 x 4.00 x 3.00 102 x 102 x 76	Special	1
F66LN1	6.00 x 6.00 x 1.00 152 x 152 x 25	Special	1
F66LN2	6.00 x 6.00 x 2.00 152 x 152 x 51	Special	1
F66LN3	6.00 x 6.00 x 3.00 152 x 152 x 76	Special	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.



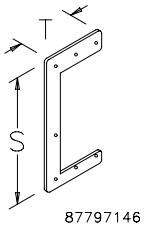
DROP HANGER

Hangers are used to support a wireway run. The drop hanger is normally attached to an overhead beam or ceiling.

BULLETIN: F20

Catalog Number	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	S in./mm	T in./mm
F22HD	None	0	9.25 235	4.50 114
F44HD	None	0	11.75 298	6.00 152
F66HD	None	0	15.25 387	8.12 206
F88HD	None	0	20.56 522	12.12 308

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

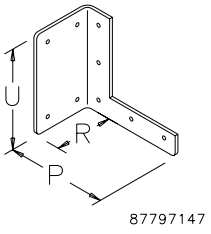


BRACKET HANGER

Hangers are used to support a wireway run. The bracket hanger can be used for wall, floor or ceiling installations.

BULLETIN: F20

Catalog Number	P in./mm	R in./mm	U in./mm
F22HB	4.62 117	3.62 92	4.38 111
F44HB	6.12 155	3.62 92	5.88 149
F66HB	8.25 210	3.62 92	7.88 200
F88HB	10.25 260	3.62 92	11.25 286



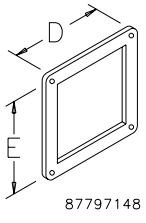
BOX CONNECTOR

When wireway enters an enclosure, a box connector should be used on the inside of the enclosure to ensure a tight seal.

BULLETIN: F10

Catalog Number	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	D in./mm	E in./mm
F22LB	90°	1	3.88 99	3.88 99
F44LB	90°	1	5.38 137	5.38 137
F66LB	90°	1	7.62 194	7.62 194
F88LB	90°	1	9.62 244	9.62 244
F126LB	90°	1	13.62 346	7.62 194

[a]Each sealing plate also includes one gasket and one set of screws to join sections.



TRANSPOSITION SECTIONS

These fittings are used when it is necessary to rotate the open side of the wireway run by 90 degrees and still retain the lay-in feature.

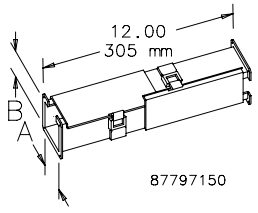
BULLETIN: F10

Clockwise

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]
F22LKT	2.50 x 2.50 64 x 64	Flat	1
F44LKT	4.00 x 4.00 102 x 102	Flat	1
F66LKT	6.00 x 6.00 152 x 152	Flat	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

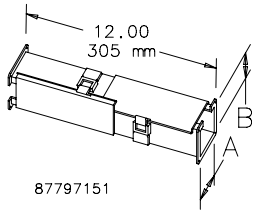


Counterclockwise

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]
F22LKOKT	2.50 x 2.50 64 x 64	Flat	1
F44LKOKT	4.00 x 4.00 102 x 102	Flat	1
F66LKOKT	6.00 x 6.00 152 x 152	Flat	1

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

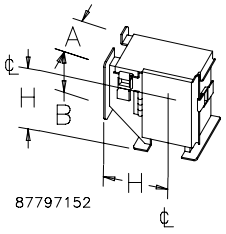


90-Degree Elbow - Clockwise

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	H in./mm
F22LE9KT	2.50 x 2.50 64 x 64	Flat	1	4.25 108
F44LE9KT	4.00 x 4.00 102 x 102	Flat	1	5.00 127
F66LE9KT	6.00 x 6.00 152 x 152	Flat	1	6.00 452
F88LE9KT	8.00 x 8.00 203 x 203	Flat	1	7.00 178

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

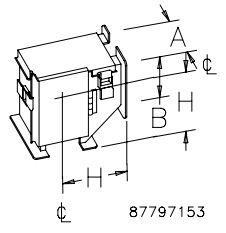


90-Degree Elbow - Counterclockwise

Catalog Number	AxB in./mm	Sealing Plates, Type[a]	Sealing Plates, Qty.[a]	H in./mm
F22LE9KOKT	2.50 x 2.50 64 x 64	Flat	1	4.25 108
F44LE9KOKT	4.00 x 4.00 102 x 102	Flat	1	5.00 127
F66LE9KOKT	6.00 x 6.00 152 x 152	Flat	1	6.00 152
F88LE9KOKT	8.00 x 8.00 203 x 203	Flat	1	7.00 178

[a]Each sealing plate also includes one gasket and one set of screws to join sections.

Certified by Canadian Standards Association.

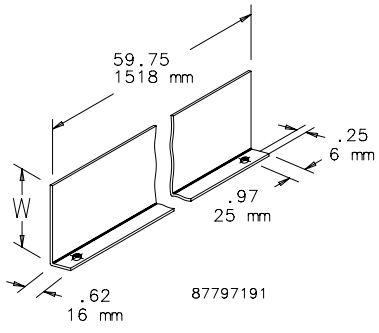


BARRIER KIT, BOLT-ON

Divides wireway into two or more compartments. Barriers are fastened to wireway sections with screws. Sealing washers are included.

BULLETIN: F20

Catalog Number	W in./mm
F33BK60	2.00 51
F44BK60	3.00 76
F66BK60	4.50 114
F88BK60	6.00 152



BARRIER KITS, BRACKET-MOUNTED

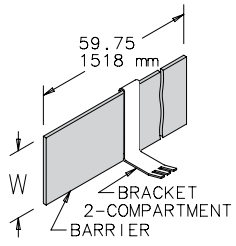
Spring steel brackets hold barriers in place by friction fit inside wireway. Order barrier and bracket separately. Recommended spacing in increments of 3 ft. (.9 m).

BULLETIN: F10

Compartment Barriers

Catalog Number	Sealing Plates (qty.)[a]	W (in.)	W (mm)
F44B360	1 pkg.[a] (5 pcs.)	3.00	76
F66B560	1 pkg.[a] (5 pcs.)	4.50	114

[a]Package consists of five barriers.

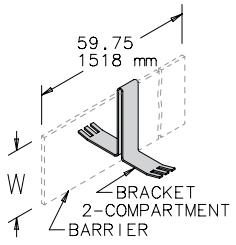


89159486

Two-Compartment Brackets

Catalog Number	Sealing Plates (qty.)[a]	W (in.)	W (mm)
F44BB2C	1 pkg.	3.00	76
F66BB2C	1 pkg.	4.50	114

[a]Package consists of five brackets.

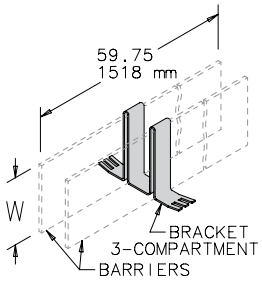


87797154

Three-Compartment Brackets

Catalog Number	Sealing Plates (qty.)[a]	W (in.)	W (mm)
F44BB3C	1 pkg.	3.00	76
F66BB3C	1 pkg.	4.50	114

[a]Package consists of five brackets.



87797155

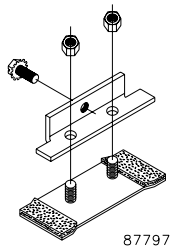
90-DEGREE ANGLE SEALING PLATE

When joining a lay-in section or fitting to a closure plate, a box connector, a non-lay-in cut-off fitting or any similar non-lay-in section or fitting, a F____LSAG 90-degree angle sealing plate is required at each junction. Hoffman furnishes this plate with fittings. Additional 90-degree angle sealing plates may be required in some cases. Plate includes a flange gasket and flange screws, not shown in drawing.

BULLETIN: F10

Catalog Number	AxB in./mm
F22LSAG	2.50 x 2.50 64 x 64
F44LSAG	4.00 x 4.00 102 x 102
F66LSAG	6.00 x 6.00 152 x 152
F88LSAG	8.00 x 8.00 203 x 203
F126LSAG	12.00 x 6.00 305 x 152

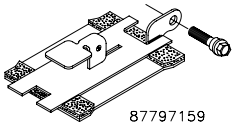
Each sealing plate also includes one gasket and one set of screws to join sections.


87797158

QUICK-RELEASE FLAT SEALING PLATE

This exclusive Hoffman-designed hinged sealing plate permits quick and easy access to the wireway interior without using a tool.

BULLETIN: F10


87797159

Catalog Number	AxB in./mm
F22LSGQR	2.50 x 2.50 64 x 64
F44LSGQR	4.00 x 4.00 102 x 102
F66LSGQR	6.00 x 6.00 152 x 152
F88LSGQR	8.00 x 8.00 203 x 203
F126LSGQR	12.00 x 6.00 305 x 152

Each sealing plate also includes one gasket and one set of screws to join sections.

Notes

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FEED-THROUGH WIREWAY, NEMA TYPE 12

APPLICATION

With a variety of fittings and brackets, this traditional-design wireway is suitable for a broad range of industrial applications.

FEATURES

- Seams continuously welded and ground smooth
- No holes or knockouts
- Smooth, rounded edges on all sections and fittings
- Heavy butt hinges and external screw clamps
- Oil-resistant gasket and adhesive

SPECIFICATIONS

- 14 gauge steel covers and bodies
- 10 gauge steel end flanges

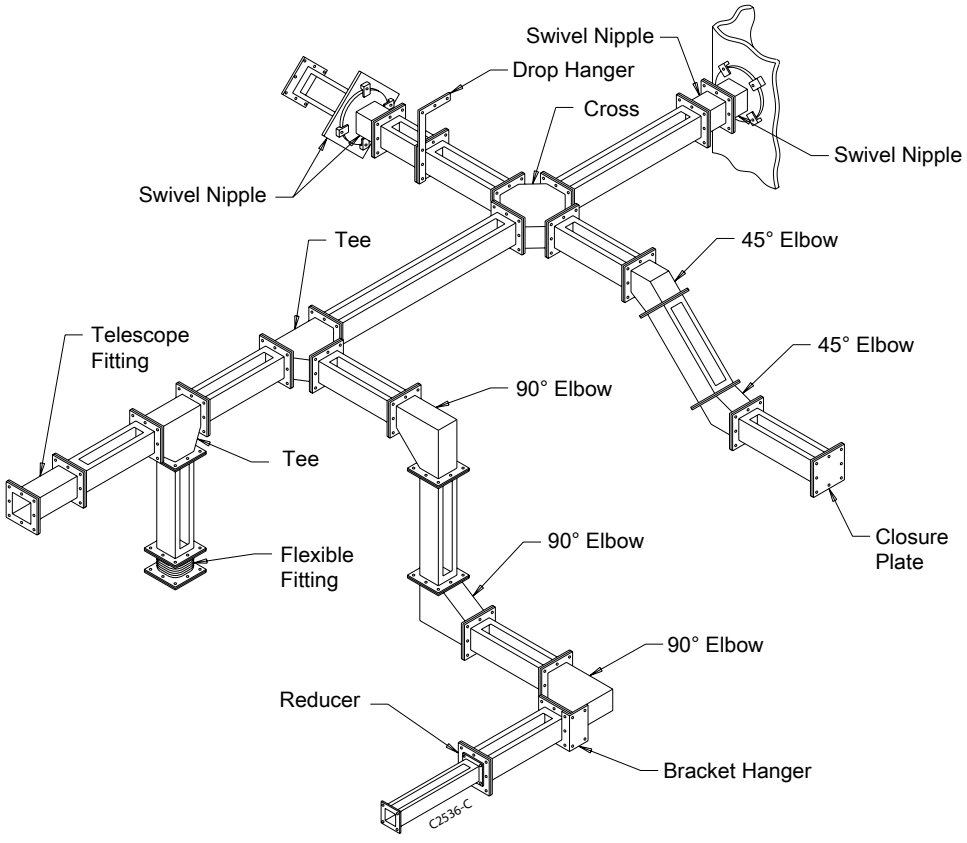
FINISH

ANSI 61 gray polyester powder finish inside and out over pretreated surfaces. Box connector is gray ANSI 61. Clamps and screws are plated.

INDUSTRY STANDARDS

UL 870; File No. E27524

NEMA/EEMAC Type 12
JIC standards EGP-1-1967 and EMP-1-1967
CSA, File No. 42184, Type 1
IEC 60529, IP54



Standard Product **Selection Matrix**

Description	2.50 x 2.50 in. (64 x 64 mm)	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)
12.00-in. (305-mm) Straight Section	F22W12[c,d]	F44W12[c,d]	F66W12[c,d]	F88W12[c,d]
24.00-in. (610-mm) Straight Section	F22W24[c,d]	F44W24[c,d]	F66W24[c,d]	F88W24[c,d]
36.00-in. (914-mm) Straight Section	F22W36[c,d]	F44W36[c,d]	F66W36[c,d]	F88W36[c,d]
48.00-in. (1219-mm) Straight Section	F22W48[c,d]	F44W48[c,d]	F66W48[c,d]	F88W48[c,d]
60.00-in. (1524-mm) Straight Section	F22W60[c,d]	F44W60[c,d]	F66W60[c,d]	F88W60[c,d]
120.00-in. (3048-mm) Straight Section	F22W120[c,d]	F44W120[c,d]	F66W120[c,d]	F88W120[c,d]
90° Elbow	F22WE90[c,d]	F44WE90[c,d]	F66WE90[c,d]	F88WE90[c,d]
45° Elbow	F22WE45[c,d]	F44WE45[c,d]	F66WE45[c,d]	F88WE45[c,d]
22.50° Elbow	F22WE225[c,d]	F44WE225[c,d]	F66WE225[c,d]	F88WE225[c,d]
Cross	F22WC[c,d]	F44WC[c,d]	F66WC[c,d]	F88WC[c,d]
Closure Plate	F22WP[c]	F44WP[c]	F66WP[c]	F88WP[c]
Tee	F22WT[c,d]	F44WT[c,d]	F66WT[c,d]	F88WT[c,d]
Telescope Fitting	F22WA	F44WA	F66WA	F88WA
Cutoff Fitting	F22WX	F44WX	F66WX	F88WX
Swivel Nipple (Box Entry)	F22WSA[c,d]	F44WSA[c,d]	F66WSA[c,d]	F88WSA[c,d]
Swivel Nipple (Regular)	F22WSC[c,d]	F44WSC[c,d]	F66WSC[c,d]	F88WSC[c,d]
1.00-in. (25-mm) Nipple	F22WN1[c,d]	F44WN1[c,d]	F66WN1[c,d]	F88WN1[c,d]
2.00-in. (51-mm) Nipple	F22WN2[c,d]	F44WN2[c,d]	F66WN2[c,d]	F88WN2[c,d]
3.00-in. (76-mm) Nipple	F22WN3[c,d]	F44WN3[c,d]	F66WN3[c,d]	F88WN3[c,d]
6.00-in. (152-mm) Nipple	F22WN6[c,d]	F44WN6[c,d]	F66WN6[c,d]	F88WN6[c,d]
Box Connector	F22WB	F44WB	F66WB	F88WB
Flexible Fitting	F22WFF	F44WFF	F66WFF	F88WFF
Reducer Bushings: 4.00-in. (102-mm) to 2.50-in. (64-mm) Center Hole	—	F44WR22[c,d]	—	—
Reducer Bushings: 4.00-in. (102-mm) to 2.50-in. (64-mm) Edge Hole	—	F44WRE22[c,d]	—	—
Reducer Bushings: 6.00-in. (152-mm) to 4.00-in. (102-mm) Center Hole	—	—	F66WR44[c,d]	—
Reducer Bushings: 6.00-in. (152-mm) to 4.00-in. (102-mm) Edge Hole	—	—	F66WRE44[c,d]	—
Reducer Bushings: 8.00-in. (203-mm) to 6.00-in. (152-mm) Center Hole	—	—	—	F88WR66[c,d]
8.00-in. (203-mm) to 6.00-in. (152-mm) Edge Hole	—	—	—	F88WRE66[c,d]
Reducer Bushings: 8.00-in. (203-mm) to 4.00-in. (102-mm) Center Hole	—	—	—	F88WR44[c,d]
Reducer Bushings: 8.00-in. (203-mm) to 4.00-in. (102-mm) Edge Hole	—	—	—	F88WRE44[c,d]
Drop Hanger	F22HD	F44HD	F66HD	F88HD
Bracket Hanger	F22HB	F44HB	F66HB	F88HB
Barrier Kit, bolton barrier 60.00 in. (1524 mm)	—	F44BK60	F66BK60	F88BK60
Barrier, bracketmounted Each barrier 60.00 in. (1524 mm)[a]	—	F44B360	F66B560	—
Barrier Brackets, 2 compartment[a]	—	F44BB2C	F66BB2C	—
Barrier Brackets, 3 compartment[a]	—	F44BB3C	F66BB3C	—
Gasket and Screws[b]	F22WG	F44WG	F66WG	F88WG

[a] Package consists of five barriers or five barrier brackets. Each barrier is 60-in. long.

[b] Standard packages of wireway contain one gasket and one set of screws to join sections, except "Cross" fittings which contain three of each, "Tee" fittings which contain two of each and Telescope" fittings which contain none. Additional gasket and screw sets may be ordered by catalog number.

[c] Certified by Canadian Standards Association.

[d] UL 870

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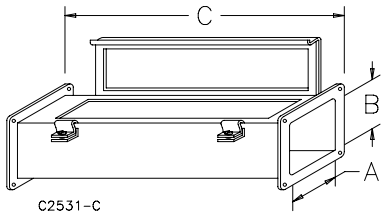
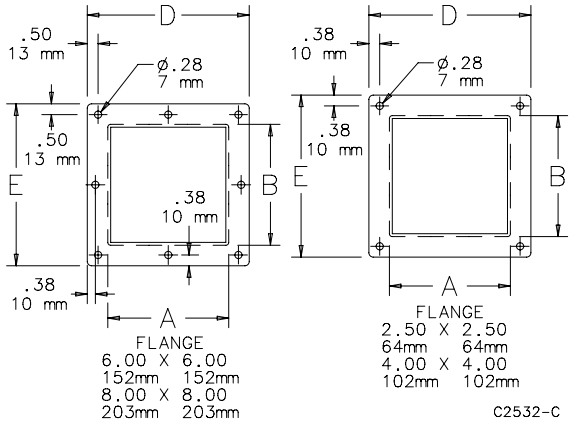
STRAIGHT SECTION



Available in lengths from 12.00 in. (305 mm) to 120.00 in. (3048 mm).

BULLETIN: F20



Straight Section

Catalog Number	AxBxC in.	AxBxC mm	D (in.)	D (mm)	E (in.)	E (mm)
F22W12	2.50 x 2.50 x 12.00	64 x 64 x 305	3.88	99	3.88	99
F22W24	2.50 x 2.50 x 24.00	64 x 64 x 610	3.88	99	3.88	99
F22W36	2.50 x 2.50 x 36.00	64 x 64 x 914	3.88	99	3.88	99
F22W48	2.50 x 2.50 x 48.00	64 x 64 x 1219	3.88	99	3.88	99
F22W60	2.50 x 2.50 x 60.00	64 x 64 x 1524	3.88	99	3.88	99
F22W120	2.50 x 2.50 x 120.00	64 x 64 x 3048	3.88	99	3.88	99
F44W12	4.00 x 4.00 x 12.00	102 x 102 x 305	5.38	137	5.38	137
F44W24	4.00 x 4.00 x 24.00	102 x 102 x 610	5.38	137	5.38	137
F44W36	4.00 x 4.00 x 36.00	102 x 102 x 914	5.38	137	5.38	137
F44W48	4.00 x 4.00 x 48.00	102 x 102 x 1219	5.38	137	5.38	137
F44W60	4.00 x 4.00 x 60.00	102 x 102 x 1524	5.38	137	5.38	137
F44W120	4.00 x 4.00 x 120.00	102 x 102 x 3048	5.38	137	5.38	137
F66W12	6.00 x 6.00 x 12.00	152 x 152 x 305	7.62	194	7.62	194
F66W24	6.00 x 6.00 x 24.00	152 x 152 x 610	7.62	194	7.62	194
F66W36	6.00 x 6.00 x 36.00	152 x 152 x 914	7.62	194	7.62	194
F66W48	6.00 x 6.00 x 48.00	152 x 152 x 1219	7.62	194	7.62	194
F66W60	6.00 x 6.00 x 60.00	152 x 152 x 1524	7.62	194	7.62	194
F66W120	6.00 x 6.00 x 120.00	152 x 152 x 3048	7.62	194	7.62	194
F88W12	8.00 x 8.00 x 12.00	203 x 203 x 305	9.62	244	9.62	244
F88W24	8.00 x 8.00 x 24.00	203 x 203 x 610	9.62	244	9.62	244
F88W36	8.00 x 8.00 x 36.00	203 x 203 x 914	9.62	244	9.62	244
F88W48	8.00 x 8.00 x 48.00	203 x 203 x 1219	9.62	244	9.62	244
F88W60	8.00 x 8.00 x 60.00	203 x 203 x 1524	9.62	244	9.62	244
F88W120	8.00 x 8.00 x 120.00	203 x 203 x 3048	9.62	244	9.62	244

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

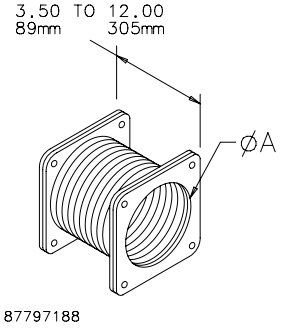
Certified by Canadian Standards Association.

FLEXIBLE FITTING

Isolates a wireway run from shock and vibration. Compensates for misalignment. Used where an odd angle is required (but not to exceed 90 degrees). Permits movement of a machine or control station connected to a wireway run. Hypalon bellow with steel flanges.

BULLETIN: F20

Catalog Number	AxB in./mm
F22WFF	2.50 x 2.50 64 x 64
F44WFF	4.00 x 4.00 102 x 102
F66WFF	6.00 x 6.00 152 x 152
F88WFF	8.00 x 8.00 203 x 203



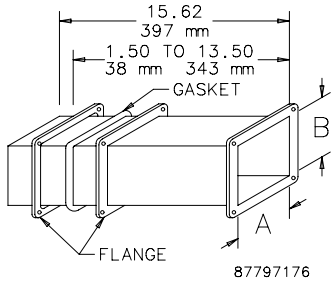
TELESCOPE FITTING

Length is easily adjustable from 1.50 in. (38 mm) to 13.50 in. (343 mm). No cutting or welding required.

BULLETIN: F20

Catalog Number	AxB in./mm
F22WA	2.50 x 2.50 64 x 64
F44WA	4.00 x 4.00 102 x 102
F66WA	6.00 x 6.00 152 x 152
F88WA	8.00 x 8.00 203 x 203

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



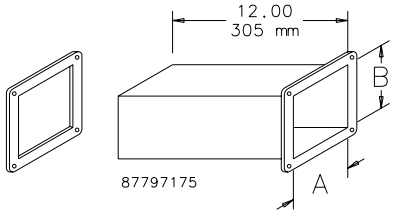
CUT-OFF FITTING

For lengths up to 12.00 in. (305 mm). Shorten body to desired length and weld on flange.

BULLETIN: F20

Catalog Number	AxB in./mm
F22WX	2.50 x 2.50 64 x 64
F44WX	4.00 x 4.00 102 x 102
F66WX	6.00 x 6.00 152 x 152
F88WX	8.00 x 8.00 203 x 203

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



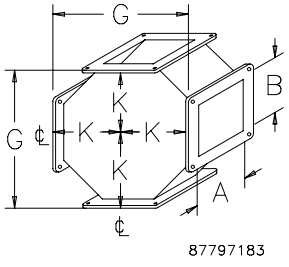
CROSS

BULLETIN: F20

Catalog Number	AxB in./mm	G in./mm	K in./mm
F22WC	2.50 x 2.50 64 x 64	8.50 216	4.25 108
F44WC	4.00 x 4.00 102 x 102	10.00 254	5.00 127
F66WC	6.00 x 6.00 152 x 152	12.00 305	6.00 152
F88WC	8.00 x 8.00 203 x 203	14.00 356	7.00 178

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension K are from intersection of center lines.

Certified by Canadian Standards Association.



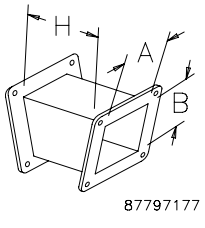
22.50-DEGREE ELBOW

BULLETIN: F20

Catalog Number	AxB in./mm	H in./mm
F22WE225	2.50 x 2.50 64 x 64	3.26 83
F44WE225	4.00 x 4.00 102 x 102	4.13 105
F66WE225	6.00 x 6.00 152 x 152	5.15 131
F88WE225	8.00 x 8.00 203 x 203	6.35 161

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



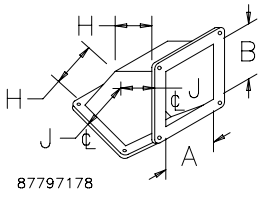
45-DEGREE ELBOW

BULLETIN: F20

Catalog Number	AxB in./mm	H in./mm	J in./mm
F22WE45	2.50 x 2.50 64 x 64	2.50 64	2.00 51
F44WE45	4.00 x 4.00 102 x 102	3.25 83	2.44 62
F66WE45	6.00 x 6.00 152 x 152	4.25 108	3.00 76
F88WE45	8.00 x 8.00 203 x 203	5.25 133	3.62 92

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension J is from intersection of center lines.

Certified by Canadian Standards Association.



87797178

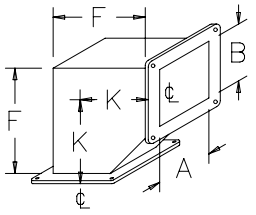
90-DEGREE ELBOW

BULLETIN: F20

Catalog Number	AxB in./mm	F in./mm	K in./mm
F22WE90	2.50 x 2.50 64 x 64	5.50 140	4.25 108
F44WE90	4.00 x 4.00 102 x 102	7.00 178	5.00 127
F66WE90	6.00 x 6.00 152 x 152	9.00 229	6.00 152
F88WE90	8.00 x 8.00 203 x 203	11.00 279	7.00 178

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension K is from intersection of center lines.

Certified by Canadian Standards Association.



87797206

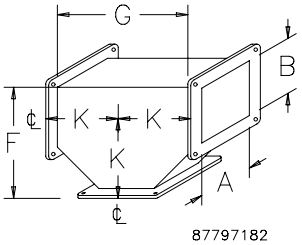
TEE

BULLETIN: F20

Catalog Number	AxB in./mm	F in./mm	G in./mm	K in./mm
F22WT	2.50 x 2.50 64 x 64	5.50 140	8.50 216	4.25 108
F44WT	4.00 x 4.00 102 x 102	7.00 178	10.00 254	5.00 127
F66WT	6.00 x 6.00 152 x 152	9.00 229	12.00 305	6.00 152
F88WT	8.00 x 8.00 203 x 203	11.00 279	14.00 356	7.00 178

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension K is from intersection of center lines.

Certified by Canadian Standards Association.



87797182

CLOSURE PLATE

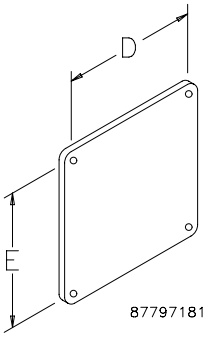
Used to seal the end on a wireway section or run.

BULLETIN: F20

Catalog Number	D in./mm	E in./mm
F22WP	3.88 99	3.88 99
F44WP	5.38 137	5.38 137
F66WP	7.62 194	7.62 194
F88WP	9.62 244	9.62 244

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



87797181

REDUCER BUSHINGS

Used to reduce to a smaller wireway size. The center hole bushing centers the two wireway sizes relative to each other while the edge hole bushing keeps the top surfaces even.

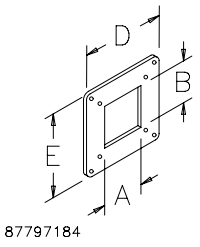
BULLETIN: F20

Center Hole

Catalog Number	AxB in.	AxB mm	D (in.)	D (mm)	E (in.)	E (mm)
F44WR22	2.00 x 2.00	51 x 51	5.38	137	5.38	137
F66WR44	4.00 x 4.00	102 x 102	7.62	194	7.62	194
F88WR44	4.00 x 4.00	102 x 102	9.62	244	9.62	244
F88WR66	6.00 x 6.00	152 x 152	9.62	244	9.62	244

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.

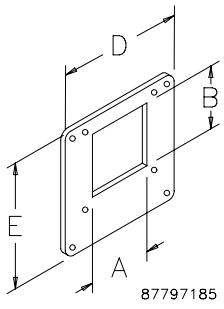


Edge Hole

Catalog Number	AxB in.	AxB mm	D (in.)	D (mm)	E (in.)	E (mm)
F44WRE22	2.00 x 2.00	51 x 51	5.38	137	5.38	137
F66WRE44	4.00 x 4.00	102 x 102	7.62	194	7.62	194
F88WRE44	4.00 x 4.00	102 x 102	9.62	244	9.62	244
F88WRE66	6.00 x 6.00	152 x 152	9.62	244	9.62	244

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.

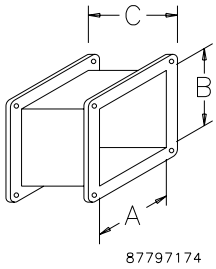


NIPPLE

BULLETIN: F20

Catalog Number	AxBxC in.	AxBxC mm
F22WN1	2.50 x 2.50 x 1.00	64 x 64 x 25
F22WN2	2.50 x 2.50 x 2.00	64 x 64 x 51
F22WN3	2.50 x 2.50 x 3.00	64 x 64 x 76
F22WN6	2.50 x 2.50 x 6.00	64 x 64 x 152
F44WN1	4.00 x 4.00 x 1.00	102 x 102 x 25
F44WN2	4.00 x 4.00 x 2.00	102 x 102 x 51
F44WN3	4.00 x 4.00 x 3.00	102 x 102 x 76
F44WN6	4.00 x 4.00 x 6.00	102 x 102 x 152
F66WN1	6.00 x 6.00 x 1.00	152 x 152 x 25
F66WN2	6.00 x 6.00 x 2.00	152 x 152 x 51
F66WN3	6.00 x 6.00 x 3.00	152 x 152 x 76
F66WN6	6.00 x 6.00 x 6.00	152 x 152 x 152
F88WN1	8.00 x 8.00 x 1.00	203 x 203 x 25
F88WN2	8.00 x 8.00 x 2.00	203 x 203 x 51
F88WN3	8.00 x 8.00 x 3.00	203 x 203 x 76
F88WN6	8.00 x 8.00 x 6.00	203 x 203 x 152

Certified by Canadian Standards Association.



SWIVEL NIPPLES

Allows wireway run to be adjusted to any angle. Regular type is used between adjacent wireway sections or fittings while the box entry type is used when entering an enclosure.

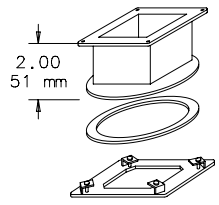
BULLETIN: F20

Regular

Catalog Number	AxB in.	AxB mm
F22WSC	2.50 x 2.50	64 x 64
F44WSC	4.00 x 4.00	102 x 102
F66WSC	6.00 x 6.00	152 x 152
F88WSC	8.00 x 8.00	203 x 203

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



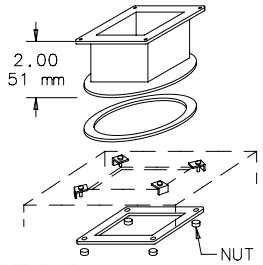
87797186

Box Entry

Catalog Number	AxB in.	AxB mm
F22WSA	2.50 x 2.50	64 x 64
F44WSA	4.00 x 4.00	102 x 102
F66WSA	6.00 x 6.00	152 x 152
F88WSA	8.00 x 8.00	203 x 203

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



87797187

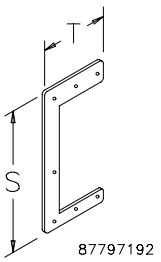
HANGERS

Hangers are used to support a wireway run. The drop hanger is normally attached to an overhead beam or ceiling while the bracket hanger can be used for wall, floor or ceiling installations.

BULLETIN: F20

Drop Hanger

Catalog Number	S (in.)	S (mm)	T (in.)	T (mm)
F22HD	9.25	235	4.50	114
F44HD	11.75	298	6.00	152
F66HD	15.25	387	8.12	206
F88HD	20.56	522	12.12	308

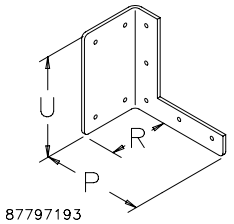


87797192

Bracket Hanger

Catalog Number	P (in.)	P (mm)	R (in.)	R (mm)	U (in.)	U (mm)
F22HB	4.62	117	3.62	92	4.38	111
F44HB	6.12	155	3.62	92	5.88	149
F66HB	8.25	210	3.62	92	7.88	200
F88HB	10.25	260	3.62	92	11.25	286

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



87797193

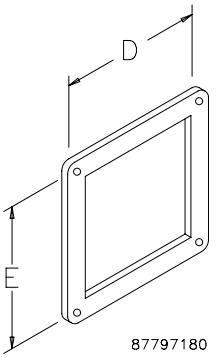
BOX CONNECTOR

When wireway enters an enclosure, a box connector should be used on the inside of the enclosure to ensure a tight and stable seal.

BULLETIN: F20

Catalog Number	D in./mm	E in./mm
F22WB	3.88 99	3.88 99
F44WB	5.38 137	5.38 137
F66WB	7.62 194	7.62 194
F88WB	9.62 244	9.62 244

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



87797180

BARRIER KITS

Divides wireway into two or three compartments. Plated spring steel brackets hold barriers in place by friction fit inside wireway. Order barrier and bracket separately. Recommended spacing increments of 3 ft.
W = 3.00 in. (76 mm) for 4.00 x 4.00 in. (102 x 102 mm)
W = 4.50 in. (114 mm) for 6.00 x 6.00 in. (152 x 152 mm)

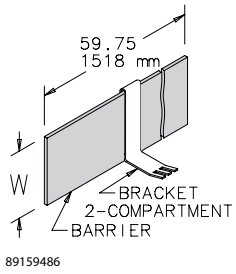
BULLETIN: F10, F20

Compartment Barriers

Catalog Number	W (in.)	W (mm)
F44B360	3.00	76
F66B560	4.50	114

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Package consists of five barriers

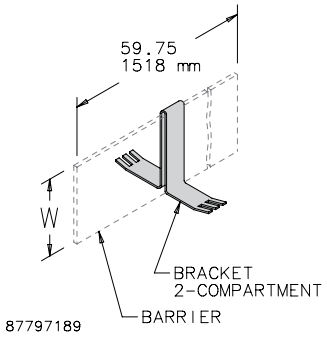


Two-Compartment Brackets

Catalog Number	W (in.)	W (mm)
F44BB2C	3.00	76
F66BB2C	4.50	114

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Package consists of five barrier brackets.

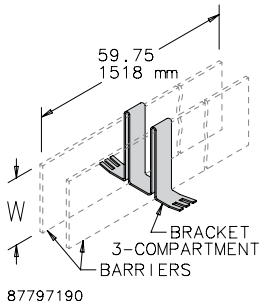


Three-Compartment Brackets

Catalog Number	W (in.)	W (mm)
F44BB3C	3.00	76
F66BB3C	4.50	114

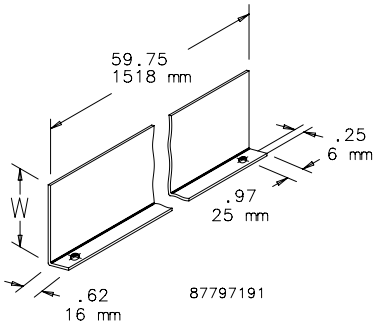
All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Package consists of five barrier brackets.



Bolt-On Brackets

Catalog Number	W (in.)	W (mm)
F44BK60	3.00	76
F66BK60	4.50	114
F88BK60	6.00	152



GASKET AND SCREWS

Standard packages of wireway contain one gasket and one set of screws to join sections, except Cross Fittings which contain three of each, Tee Fittings which contain two of each and Telescope Fittings which contain none. Additional gasket and screw sets may be ordered by catalog number.

BULLETIN: F20

Catalog Number	AxB in./mm
F22WG	2.50 x 2.50 64 x 64
F44WG	4.00 x 4.00 102 x 102
F66WG	6.00 x 6.00 152 x 152
F88WG	8.00 x 8.00 203 x 203

STAINLESS STEEL FEED-THROUGH WIREWAY, NEMA TYPE 4X

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524

NEMA Type 4, 4X, 12
CSA, File No. 42184, Type 1
IEC 60529, IP66

APPLICATION

Stainless steel wireway protects wiring in applications that are regularly hosed down, very wet or highly corrosive. A complete selection of sections and fittings is available in multiple sizes for customization and design flexibility.

FEATURES

- Seams continuously welded and ground smooth
- No holes or knockouts
- Smooth, rounded edges on all sections and fittings
- Butt hinges and external screw clamps
- Oil-resistant gasket and adhesive

SPECIFICATIONS

- 16 gauge Type 304 stainless steel covers and bodies
- 10 gauge stainless steel flanges

FINISH

No. 2B finish.

Standard Product **Selection Matrix**

Description	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)
12.00-in. (305-mm) Straight Section	F44W12SS[b,c]	F66W12SS[b,c]
24.00-in. (610-mm) Straight Section	F44W24SS[b,c]	F66W24SS[b,c]
36.00-in. (914-mm) Straight Section	F44W36SS[b,c]	F66W36SS[b,c]
48.00-in. (1219-mm) Straight Section	F44W48SS[b,c]	F66W48SS[b,c]
60.00-in. (1524-mm) Straight Section	F44W60SS[b,c]	F66W60SS[b,c]
120.00-in. (3048-mm) Straight Section	F44W120SS[b,c]	F66W120SS[b,c]
Flexible Fitting	F44WFFSS	F66WFFSS
Telescope Fitting	F44WASS	F66WASS
45° Elbow	F44WE45SS[b,c]	F66WE45SS[b,c]
90° Elbow	F44WE90SS[b,c]	F66WE90SS[b,c]
Tee	F44WTSS[b,c]	F66WTSS[b,c]
Closure Plate	F44WPSS	F66WPSS
Reducer Bushings: 6.00-in. (152-mm) to 4.00-in. (102-mm) Center Hole	—	F66WR44SS
Reducer Bushings: 6.00-in. (152-mm) to 4.00-in. (102-mm) Edge Hole	—	F66WRE44SS
6.00-in. (152-mm) Nipple	F44WN6SS[b]	F66WN6SS[b,c]
Swivel Nipple (Regular)	F44WSCSS[b,c]	—
Drop Hanger	F44HDSS	F66HDSS
Bracket Hanger	F44HBSS	F66HBSS
Box Connector	F44WBSS	F66WBSS
Gasket and Screws[a]	F44WGSS	F66WGSS

[a]Standard packages of wireway contain one gasket and one set of screws to join sections, except "Tee" fittings which contain two of each, and "Telescope" fittings which contain none. Additional gasket and screw sets may be ordered by catalog number.

[b]Certified by Canadian Standards Association.

[c] UL 870

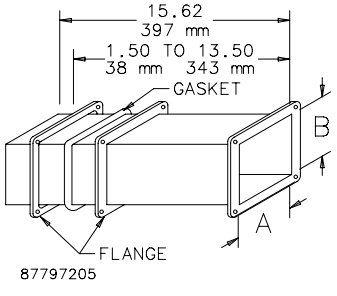
TELESCOPE FITTING

Length is easily adjustable from 1.50 in. (38 mm) to 13.50 in. (343 mm). No cutting or welding required.

BULLETIN: F22

Catalog Number	AxB in./mm
F44WASS	4.00 x 4.00 102 x 102
F66WASS	6.00 x 6.00 152 x 152

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



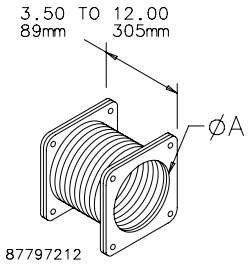
FLEXIBLE FITTING

Isolates a wireway run from shock and vibration. Compensates for misalignment. Used where an odd angle is required (but not to exceed 90 degrees). Permits movement of a machine or control station connected to a wireway run. Hypalon bellow with steel flanges.

BULLETIN: F22

Catalog Number	AxB in./mm
F44WFFSS	4.00 x 4.00 102 x 102
F66WFFSS	6.00 x 6.00 152 x 152

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



STRAIGHT SECTION

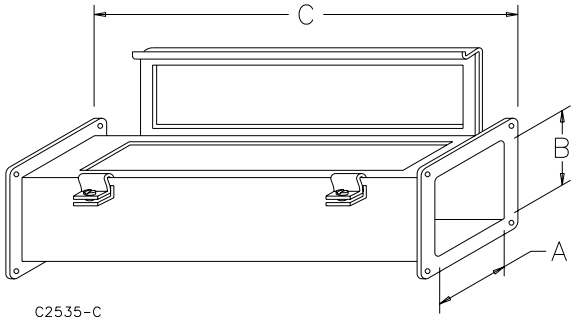
Available in lengths from 12.00 in. (305 mm) to 120.00 in. (3048 mm).

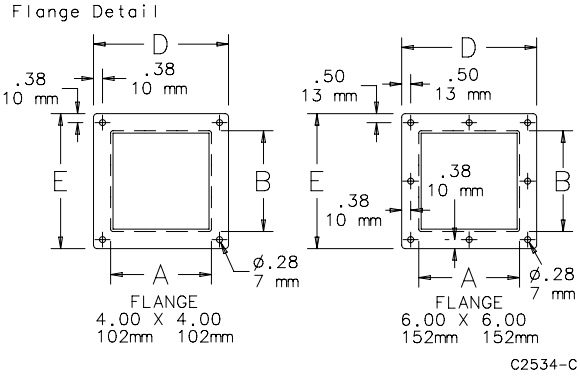
BULLETIN: F22

Catalog Number	AxBxC in.	AxBxC mm	D (in.)	D (mm)	E (in.)	E (mm)
F44W12SS	4.00 x 4.00 x 12.00	102 x 102 x 305	5.38	137	5.38	137
F44W24SS	4.00 x 4.00 x 24.00	102 x 102 x 610	5.38	137	5.38	137
F44W36SS	4.00 x 4.00 x 36.00	102 x 102 x 914	5.38	137	5.38	137
F44W48SS	4.00 x 4.00 x 48.00	102 x 102 x 1219	5.38	137	5.38	137
F44W60SS	4.00 x 4.00 x 60.00	102 x 102 x 1524	5.38	137	5.38	137
F44W120SS	4.00 x 4.00 x 120.00	102 x 102 x 3048	5.38	137	5.38	137
F66W12SS	6.00 x 6.00 x 12.00	152 x 152 x 305	7.62	194	7.62	194
F66W24SS	6.00 x 6.00 x 24.00	152 x 152 x 610	7.62	194	7.62	194
F66W36SS	6.00 x 6.00 x 36.00	152 x 152 x 914	7.62	194	7.62	194
F66W48SS	6.00 x 6.00 x 48.00	152 x 152 x 1219	7.62	194	7.62	194
F66W60SS	6.00 x 6.00 x 60.00	152 x 152 x 1524	7.62	194	7.62	194
F66W120SS	6.00 x 6.00 x 120.00	152 x 152 x 3048	7.62	194	7.62	194

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.





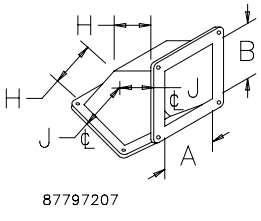
45-DEGREE ELBOW

BULLETIN: F22

Catalog Number	AxB in./mm	H in./mm	J in./mm
F44WE45SS	4.00 x 4.00 102 x 102	3.25 83	2.44 62
F66WE45SS	6.00 x 6.00 152 x 152	4.25 108	3.00 76

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension J is from intersection of center lines.

Certified by Canadian Standards Association.



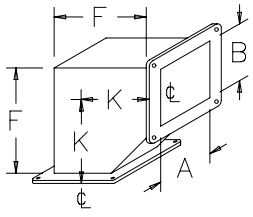
90-DEGREE ELBOW

BULLETIN: F22

Catalog Number	AxB in./mm	F in./mm	K in./mm
F44WE90SS	4.00 x 4.00 102 x 102	7.00 178	5.00 127
F66WE90SS	6.00 x 6.00 152 x 152	9.00 229	6.00 152

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension K is from intersection of center lines.

Certified by Canadian Standards Association.



87797206

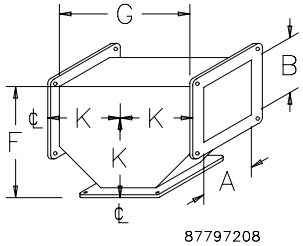
TEE

BULLETIN: F22

Catalog Number	AxB in./mm	F in./mm	G in./mm	K in./mm
F44WTSS	4.00 x 4.00 102 x 102	7.00 178	10.00 254	5.00 127
F66WTSS	6.00 x 6.00 152 x 152	9.00 229	12.00 305	6.00 152

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints. Dimension K is from intersection of center lines.

Certified by Canadian Standards Association.



87797208

CLOSURE PLATE

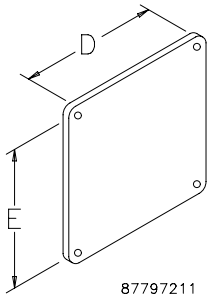
Used to seal the end of a wireway section or run.

BULLETIN: F22

Catalog Number	D in./mm	E in./mm
F44WPSS	5.38 137	5.38 137
F66WPSS	7.62 194	7.62 194

Note: All dimensions are to outside surfaces. Allow .12 in. (3mm) additional for gasket at joints.

Certified by Canadian Standards Association.



87797211

REDUCER BUSHINGS

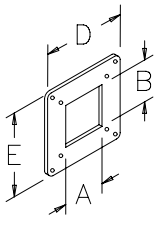
Used to reduce to a smaller wireway size. The center hole bushing centers the two wireway sizes relative to each other while the edge hole bushing keeps the top surfaces even.

BULLETIN: F22

Center Hole

Catalog Number	AxB in./mm	D in./mm	E in./mm
F66WR44SS	4.00 x 4.00 102 x 102	7.62 194	7.62 194

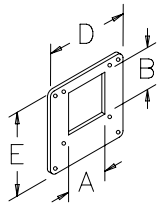
All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



87797213

Edge Hole

Catalog Number	AxB in./mm	D in./mm	E in./mm
F66WRE44SS	4.00 x 4.00 102 x 102	7.62 194	7.62 194



87797214

NIPPLE

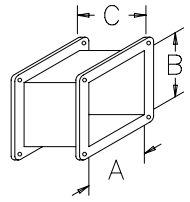
Available in 6.00-in. (152-mm) length.

BULLETIN: F22

Catalog Number	AxBxC in./mm
F44WN6SS	4.00 x 4.00 x 6.00 102 x 102 x 152
F66WN6SS	6.00 x 6.00 x 6.00 152 x 152 x 152

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



87797204

SWIVEL NIPPLE

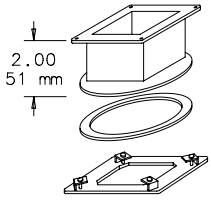
Allows wireway run to be adjusted to any angle. Regular type is used between adjacent wireway sections or fittings.

BULLETIN: F22

Catalog Number	AxB in./mm
F44WSCSS	4.00 x 4.00 102 x 102

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

Certified by Canadian Standards Association.



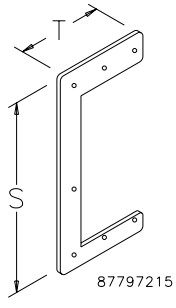
87797209

DROP HANGER

BULLETIN: F22

Catalog Number	S in./mm	T in./mm
F44HDSS	11.75 298	6.00 152
F66HDSS	15.25 387	8.12 206

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



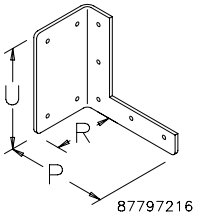
87797215

BRACKET HANGER

BULLETIN: F22

Catalog Number	P in./mm	R in./mm	U in./mm
F44HBSS	6.12 155	3.62 92	5.88 149
F66HBSS	8.25 210	3.62 92	7.88 200

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



87797216

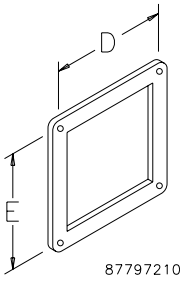
BOX CONNECTOR

When wireway enters an enclosure, a box connector should be used on the inside of the enclosure to ensure a tight and stable seal.

BULLETIN: F22

Catalog Number	D in./mm	E in./mm
F44WBSS	5.38 137	5.38 137
F66WBSS	7.62 194	7.62 194

All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



87797210

GASKET AND SCREWS

Standard packages of wireway contain one gasket and one set of screws to join sections, except Tee Fittings which contain two of each and Telescope Fittings which contain none. Additional gasket and screw sets may be ordered by catalog number.

BULLETIN: F22

Catalog Number	AxB in./mm
F44WGSS	4.00 x 4.00 102 x 102
F66WGSS	6.00 x 6.00 152 x 152

FIBERGLASS FEED-THROUGH WIREWAY, NEMA TYPE 12 AND 3R

INDUSTRY STANDARDS

Material Flammability Rating UL 94-5V
Meets UL cold impact test for temperatures to -35 C

NEMA Type 12, 3R
IEC 60529, IP55
Recognized by National Electric Code for indoor and outdoor applications

APPLICATION

This temperature- and chemically-resistant fiberglass wireway protects wires and cables in corrosive or dirty indoor or outdoor applications.

FEATURES

- Seams are sealed
- No holes or knockouts
- Captivated Monel cover screws
- Oil-resistant cover gasket attached with oil-resistant adhesive
- Stainless steel flange screws
- Solid oil-resistant flange gasket
- Pultruded fiberglass polyester covers and bodies

FINISH

Fiberglass wireway is gray inside and out.

Standard Product **Selection Matrix**

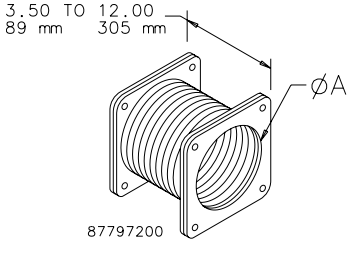
Description	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)
12.00-in. (305-mm) Straight Section	F44W12FG	F66W12FG
24.00-in. (610-mm) Straight Section	F44W24FG	F66W24FG
36.00-in. (914-mm) Straight Section	F44W36FG	F66W36FG
48.00-in. (1219-mm) Straight Section	F44W48FG	F66W48FG
60.00-in. (1524-mm) Straight Section	F44W60FG	F66W60FG
12.00-in. (305-mm) Straight Tube Section	F44W12STFG	—
24.00-in. (610-mm) Straight Tube Section	F44W24STFG	—
36.00-in. (914-mm) Straight Tube Section	F44W36STFG	—
48.00-in. (1219-mm) Straight Tube Section	F44W48STFG	—
60.00-in. (1524-mm) Straight Tube Section	F44W60STFG	—
120.00-in. (3048-mm) Straight Tube Section	F44W120STFG	—
Cross Fitting	F44WCFG	F66WCFG
Flexible Fitting	F44WFFFG	F66WFFFG
45° Elbow	F44WE45FG	F66WE45FG
90° Elbow	F44WE90FG	F66WE90FG
Cutoff Fitting	F44WXFG	F66WXFG
Tee Fitting	F44WTFG	F66WTFG
Closure Plate	F44WPFG	F66WPFG
Wireway Hanger	F44HBEP	F66HBEP
Box Connector	F44WBFG	F66WBFG

FLEXIBLE FITTING

Isolates a wireway run from shock and vibration. Compensates for misalignment. Used where an odd angle is required (but not to exceed 90 degrees). Permits movement of a machine or control station connected to a wireway run. Hypalon bellow with stainless steel flanges.

BULLETIN: F25

Catalog Number	AxB in./mm
F44WFFFG	4.00 x 4.00 102 x 102
F66WFFFG	6.00 x 6.00 152 x 152

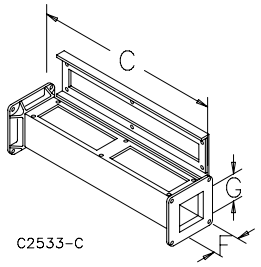


STRAIGHT SECTION

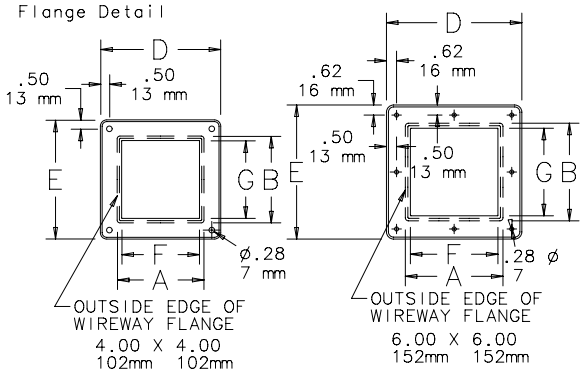
Available in lengths from 12.00 (305 mm) to 60.00 (1524 mm).

BULLETIN: F25

Catalog Number	AxBxC in./mm	D in./mm	F in./mm	G in./mm
F44W12FG	4.00 x 4.00 x 12.00 102 x 102 x 305	6.00 152	3.38 86	3.38 86
F44W24FG	4.00 x 4.00 x 24.00 102 x 102 x 610	6.00 152	3.38 86	3.38 86
F44W36FG	4.00 x 4.00 x 36.00 102 x 102 x 914	6.00 152	3.38 86	3.38 86
F44W48FG	4.00 x 4.00 x 48.00 102 x 102 x 1219	6.00 152	3.38 86	3.38 86
F44W60FG	4.00 x 4.00 x 60.00 102 x 102 x 1524	6.00 152	3.38 86	3.38 86
F66W12FG	6.00 x 6.00 x 12.00 152 x 152 x 305	8.25 210	5.38 137	5.38 137
F66W24FG	6.00 x 6.00 x 24.00 152 x 152 x 610	8.25 210	5.38 137	5.38 137
F66W36FG	6.00 x 6.00 x 36.00 152 x 152 x 914	8.25 210	5.38 137	5.38 137
F66W48FG	6.00 x 6.00 x 48.00 152 x 152 x 1219	8.25 210	5.38 137	5.38 137
F66W60FG	6.00 x 6.00 x 60.00 152 x 152 x 1524	8.25 210	5.38 137	5.38 137



C2533-C

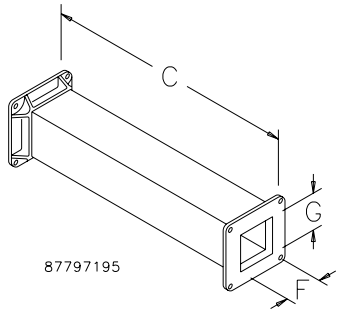


C2474-C

STRAIGHT TUBE SECTION

BULLETIN: F25

Catalog Number	AxBxC in./mm	F in./mm	G in./mm
F44W12STFG	4.00 x 4.00 x 12.00 102 x 102 x 305	3.38 86	3.38 86
F44W24STFG	4.00 x 4.00 x 24.00 102 x 102 x 610	3.38 86	3.38 86
F44W36STFG	4.00 x 4.00 x 36.00 102 x 102 x 914	3.38 86	3.38 86
F44W48STFG	4.00 x 4.00 x 48.00 102 x 102 x 1219	3.38 86	3.38 86
F44W60STFG	4.00 x 4.00 x 60.00 102 x 102 x 1524	3.38 86	3.38 86
F44W120STFG	4.00 x 4.00 x 120.00 102 x 102 x 3048	3.38 86	3.38 86



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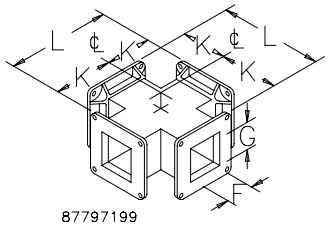
CROSS FITTING

BULLETIN: F25

Catalog Number	F in./mm	G in./mm	K in./mm	L in./mm
F44WCFG	3.38 86	3.38 86	6.00 152	12.00 305
F66WCFG	5.38 137	5.38 137	6.00 152	12.00 305

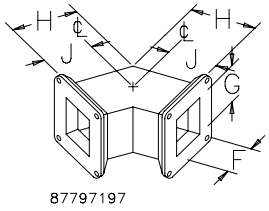


87797199

45-DEGREE ELBOW

BULLETIN: F25

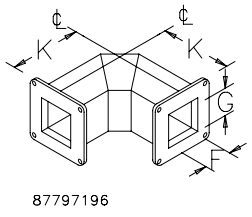
Catalog Number	F in./mm	G in./mm	H in./mm	J in./mm
F44WE45FG	3.38	3.38	5.81	5.00
	86	86	148	127
F66WE45FG	5.38	5.38	7.62	6.62
	137	137	194	168



90-DEGREE ELBOW

BULLETIN: F25

Catalog Number	F in./mm	G in./mm	K in./mm
F44WE90FG	3.38	3.38	6.00
	86	86	152
F66WE90FG	5.38	5.38	6.00
	137	137	152

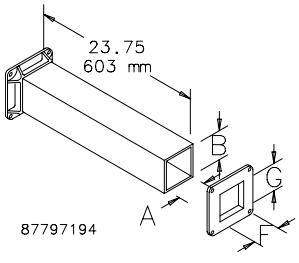


CUT-OFF FITTING

For lengths up to 24.00 in. (610 mm). Shorten body to desired length and bond flange to body. Adhesive is furnished.

BULLETIN: F25

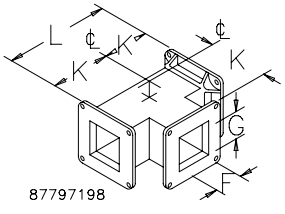
Catalog Number	AxB in./mm	F in./mm	G in./mm
F44WXFG	4.00 x 4.00	3.38	3.38
	102 x 102	86	86
F66WXFG	6.00 x 6.00	5.38	5.38
	152 x 152	137	137



TEE FITTING

BULLETIN: F25

Catalog Number	F in./mm	G in./mm	K in./mm	L in./mm
F44WTFG	3.38	3.38	6.00	12.00
	86	86	152	305
F66WTFG	5.38	5.38	6.00	12.00
	137	137	152	305

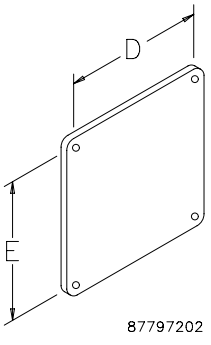


CLOSURE PLATE

10 gauge 316 stainless steel, used to seal the end of a wireway section or run. 6.00 x 6.00 in. (152 x 152 mm) can be used for transition to 4.00 x 4.00-in. (102 x 102-mm) size.

BULLETIN: F25

Catalog Number	D (in.)	D (mm)	E (in.)	E (mm)
F44WPFG	6.00	152	6.00	152
F66WPFG	8.25	210	8.25	210

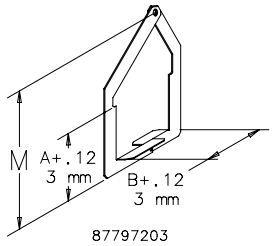


WIREWAY HANGER

10 gauge epoxy-coated steel, used to support wireway from overhead.

BULLETIN: F25

Catalog Number	AxB in./mm	M in./mm
F44HBEP	4.00 x 4.00	9.23
	102 x 102	234
F66HBEP	4.00 x 4.00	12.36
	102 x 102	314

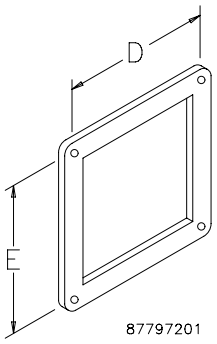


BOX CONNECTOR

When wireway enters an enclosure, a box connector should be used on the inside of the enclosure to ensure a tight seal. Made from epoxy-coated 10 gauge steel.

BULLETIN: F25

Catalog Number	D (in.)	D (mm)	E (in.)	E (mm)
F44WBFG	6.00	152	6.00	152
F66WBFG	8.25	210	8.25	210



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WIRING TROUGH, NEMA TYPE 1

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524
cUL CSA C22.2 No. 26 Listed; File No. E27524

NEMA/EEMAC: Type 1
IEC 60529, IP30

APPLICATION

Using a unique joining method that mechanically locks components together without fasteners or heat, this wiring trough ships completely assembled to save both time and labor. Designed for indoor use, this trough is available in various lengths.

FEATURES

- Keyhole screw slots in cover
- Shipped completely assembled—no end caps to install
- Mounting holes on the back of the enclosure
- Flat cover fastened with plated steel screws
- No gasketing or knockouts

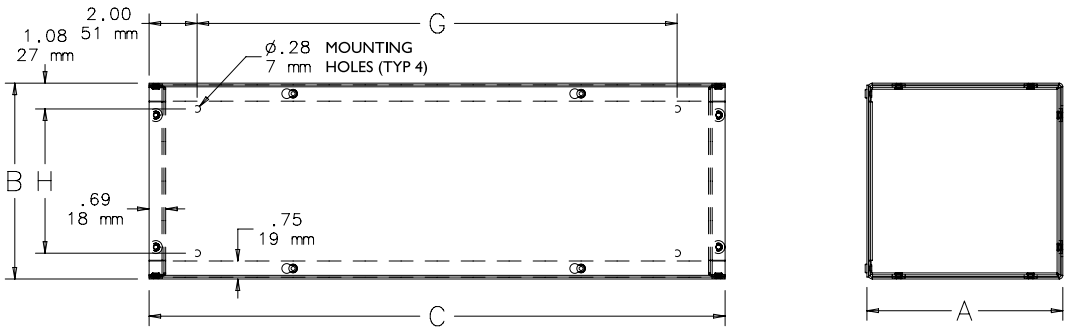
SPECIFICATIONS

- 16 or 14 gauge plated steel

FINISH

Unpainted plated steel

BULLETIN: F40T1



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Standard Product

Catalog Number	AxBxC in./mm	Gauge	Mounting G in./mm	Mounting H in./mm
A4412T1T	4.00 x 4.00 x 12.00 102 x 102 x 305	16	8.00 203	2.00 51
A4424T1T	4.00 x 4.00 x 24.00 102 x 102 x 610	16	20.00 508	2.00 51
A4436T1T	4.00 x 4.00 x 36.00 102 x 102 x 914	16	24.00 610	2.00 51
A4448T1T	4.00 x 4.00 x 48.00 102 x 102 x 1219	16	36.00 914	2.00 51
A4460T1T	4.00 x 4.00 x 60.00 102 x 102 x 1524	16	48.00 1219	2.00 51
A4472T1T	4.00 x 4.00 x 72.00 102 x 102 x 1829	16	60.00 1524	2.00 51
A4496T1T	4.00 x 4.00 x 96.00 102 x 102 x 2438	16	84.00 2134	2.00 51
A6612T1T	6.00 x 6.00 x 12.00 152 x 152 x 305	16	8.00 203	4.00 102
A6624T1T	6.00 x 6.00 x 24.00 152 x 152 x 610	16	20.00 508	4.00 102
A6636T1T	6.00 x 6.00 x 36.00 152 x 152 x 914	16	24.00 610	4.00 102
A6648T1T	6.00 x 6.00 x 48.00 152 x 152 x 1219	16	36.00 914	4.00 102
A6660T1T	6.00 x 6.00 x 60.00 152 x 152 x 1524	16	48.00 1219	4.00 102
A6672T1T	6.00 x 6.00 x 72.00 152 x 152 x 1829	16	60.00 1524	4.00 102
A6696T1T	6.00 x 6.00 x 96.00 152 x 152 x 2438	16	84.00 2134	4.00 102
A8824T1T	8.00 x 8.00 x 24.00 203 x 203 x 610	14	8.00 203	6.01 153
A8836T1T	8.00 x 8.00 x 36.00 203 x 203 x 914	14	20.00 508	6.01 153
A8848T1T	8.00 x 8.00 x 48.00 203 x 203 x 1219	14	36.00 914	6.01 153
A8860T1T	8.00 x 8.00 x 60.00 203 x 203 x 1524	14	48.00 1219	6.01 153
A8872T1T	8.00 x 8.00 x 72.00 203 x 203 x 1829	14	60.00 1524	6.01 153
A8896T1T	8.00 x 8.00 x 96.00 203 x 203 x 2438	14	84.00 2134	6.01 153
A101048T1T	10.00 x 10.00 x 48.00 254 x 254 x 1219	14	36.00 914	8.01 203
A121224T1T	12.00 x 12.00 x 24.00 305 x 305 x 610	14	8.00 203	10.01 254
A121236T1T	12.00 x 12.00 x 36.00 305 x 305 x 914	14	20.00 508	10.01 254
A121248T1T	12.00 x 12.00 x 48.00 305 x 305 x 1219	14	36.00 914	10.01 254
A121260T1T	12.00 x 12.00 x 60.00 305 x 305 x 1524	14	48.00 1219	10.01 254
A121272T1T	12.00 x 12.00 x 72.00 305 x 305 x 1829	14	60.00 1524	10.01 254
A121296T1T	12.00 x 12.00 x 96.00 305 x 305 x 2438	14	84.00 2134	10.01 254
A1212120T1T	12.00 x 12.00 x 120.00 305 x 305 x 3048	14	108.00 2743	10.01 254

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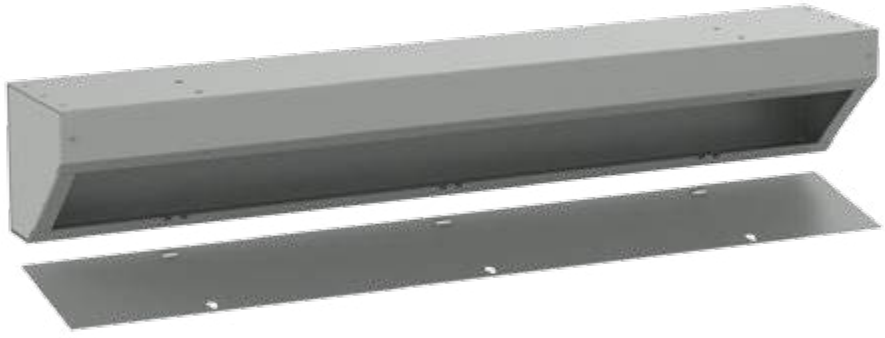
ANGLED TROUGH, NEMA TYPE 1



INDUSTRY STANDARDS

UL 870 Listed; File No. E27524
cUL CSA C22.2 No. 26 Listed; File No. E27524

NEMA/EEMAC: Type 1
IEC 60529, IP30

APPLICATION

The new Hoffman Angled Trough cuts total installation time by 80%. It eliminates the need for costly 90-degree conduit bends and offers flexibility for wire distribution, making it a time and cost saving solution for contractors. The unique design allows conduit runs through the front of the enclosure, and can be mounted in any corner.

FEATURES

- Flexible install allows conduit runs through six sides of enclosure, including the front
- Cleaner appearance requiring less real estate on the wall
- Uniquely designed cover is removable and easy to assemble with half the number of screws
- Easy mounting via holes on the back of the enclosure
- Shipped completely assembled with no end caps to install

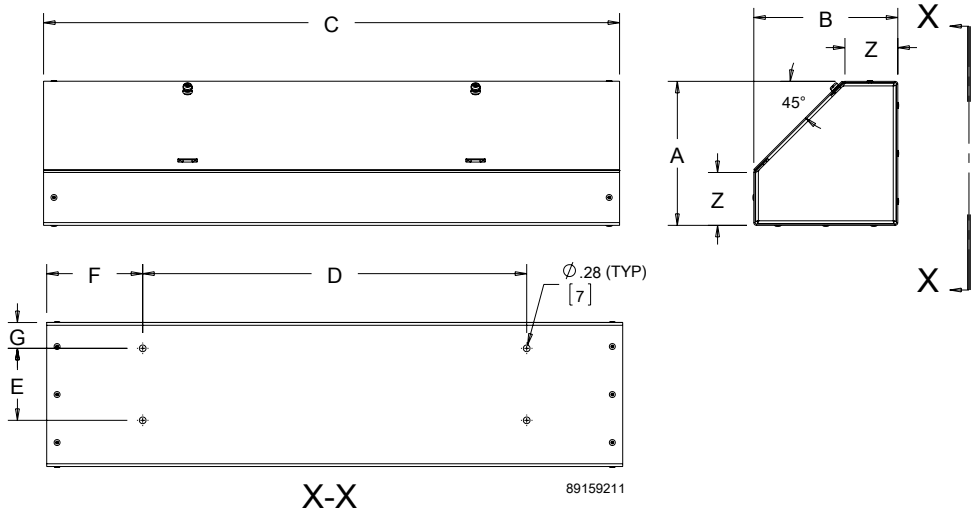
SPECIFICATIONS

- 16 or 14 gauge steel

FINISH

- ANSI 61 gray polyester powder paint finish inside and out

BULLETIN: F40AT



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Standard Product

Catalog Number	AxBxC in./mm	D in./mm	E in./mm	F in./mm	G in./mm	Z in./mm	Max. Conduit size in./mm	No. of Cover Screws
AT6612	6.00 x 6.00 x 12.00 152 x 152 x 305	8.00 152	3.00 76	2.00 51	1.08 27	2.25 57	1.25 32	1
AT6618	6.00 x 6.00 x 18.00 152 x 152 x 457	10.00 254	3.00 76	4.00 102	1.08 27	2.25 57	1.25 32	2
AT6624	6.00 x 6.00 x 24.00 152 x 152 x 610	16.00 406	3.00 76	4.00 102	1.08 27	2.25 57	1.25 32	2
AT6636	6.00 x 6.00 x 36.00 152 x 152 x 914	24.00 610	3.00 76	6.00 152	1.08 27	2.25 57	1.25 32	3
AT6648	6.00 x 6.00 x 48.00 152 x 152 x 1219	36.00 914	3.00 76	6.00 152	1.08 27	2.25 57	1.25 32	4
AT6660	6.00 x 6.00 x 60.00 152 x 152 x 1524	48.00 1219	3.00 76	6.00 152	1.08 27	2.25 57	1.25 32	5
AT6672	6.00 x 6.00 x 72.00 152 x 152 x 1829	60.00 1524	3.00 76	6.00 152	1.08 27	2.25 57	1.25 32	6
AT8824	8.00 x 8.00 x 24.00 203 x 203 x 610	16.00 406	5.00 127	4.00 102	1.08 27	3.25 83	2.00 51	2
AT8836	8.00 x 8.00 x 36.00 203 x 203 x 914	24.00 610	5.00 127	6.00 152	1.08 27	3.25 83	2.00 51	3
AT8848	8.00 x 8.00 x 48.00 203 x 203 x 1219	36.00 914	5.00 127	6.00 152	1.08 27	3.25 83	2.00 51	4
AT8860	8.00 x 8.00 x 60.00 203 x 203 x 1524	48.00 1219	5.00 127	6.00 152	1.08 27	3.25 83	2.00 51	5
AT8872	8.00 x 8.00 x 72.00 203 x 203 x 1829	60.00 1524	5.00 127	6.00 152	1.08 27	3.25 83	2.00 51	6
AT101024	10.00 x 10.00 x 24.00 254 x 254 x 610	16.00 406	6.85 174	4.00 102	1.08 27	4.50 114	3.00 76	2
AT101036	10.00 x 10.00 x 36.00 254 x 254 x 914	24.00 610	6.85 174	6.00 152	1.08 27	4.50 114	3.00 76	3
AT101048	10.00 x 10.00 x 48.00 254 x 254 x 1219	36.00 914	6.85 174	6.00 152	1.08 27	4.50 114	3.00 76	4
AT121224	12.00 x 12.00 x 24.00 305 x 305 x 610	16.00 406	9.75 248	4.00 102	1.13 29	4.50 114	3.00 76	2
AT121236	12.00 x 12.00 x 36.00 305 x 305 x 914	24.00 610	9.75 248	6.00 152	1.13 29	4.50 114	3.00 76	3
AT121248	12.00 x 12.00 x 48.00 305 x 305 x 1219	36.00 914	9.75 248	6.00 152	1.13 29	4.50 114	3.00 76	4
AT121260	12.00 x 12.00 x 60.00 305 x 305 x 1524	48.00 1219	9.75 248	6.00 152	1.13 29	4.50 114	3.00 76	5
AT121272	12.00 x 12.00 x 72.00 305 x 305 x 1829	60.00 1524	9.75 248	6.00 152	1.13 29	4.50 114	3.00 76	6

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WIRING TROUGH, NEMA TYPE 3R

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524; Raintight
cUL CSA C22.2 No. 26 Listed; File No. E27524; Raintight

NEMA/EEMAC Type 3R
IEC 60529, IP32

APPLICATION

Available in a range of sizes, this wiring trough meets basic functionality requirements for applications subjected to moisture.

FEATURES

- Drip shield top and seam-free sides, front, and back
- Slip-on removable cover
- Embossed mounting holes on back of enclosure
- Provision for padlocking
- No gasketing or knockouts

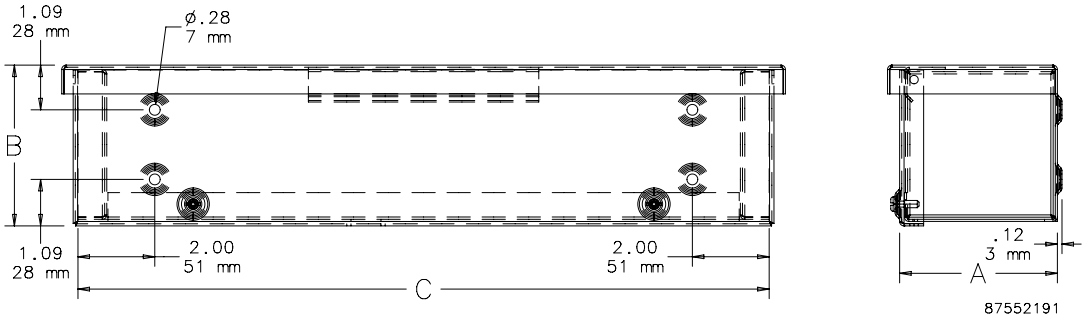
SPECIFICATIONS

- 16 or 14 gauge plated steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out over pretreated surfaces.

BULLETIN: F40PT



Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Gauge
A4412RT	4.00 x 4.00 x 12.00	102 x 102 x 305	16
A4418RT	4.00 x 4.00 x 18.00	102 x 102 x 457	16
A4424RT	4.00 x 4.00 x 24.00	102 x 102 x 610	16
A4436RT	4.00 x 4.00 x 36.00	102 x 102 x 914	16
A4448RT	4.00 x 4.00 x 48.00	102 x 102 x 1219	16
A4460RT	4.00 x 4.00 x 60.00	102 x 102 x 1524	16
A4472RT	4.00 x 4.00 x 72.00	102 x 102 x 1829	16
A6612RT	6.00 x 6.00 x 12.00	152 x 152 x 305	16
A6618RT	6.00 x 6.00 x 18.00	152 x 152 x 457	16
A6624RT	6.00 x 6.00 x 24.00	152 x 152 x 610	16
A6636RT	6.00 x 6.00 x 36.00	152 x 152 x 914	16
A6648RT	6.00 x 6.00 x 48.00	152 x 152 x 1219	16
A6660RT	6.00 x 6.00 x 60.00	152 x 152 x 1524	16
A6672RT	6.00 x 6.00 x 72.00	152 x 152 x 1829	16
A8812RT	8.00 x 8.00 x 12.00	203 x 203 x 305	14
A8824RT	8.00 x 8.00 x 24.00	203 x 203 x 610	14
A8836RT	8.00 x 8.00 x 36.00	203 x 203 x 914	14
A8848RT	8.00 x 8.00 x 48.00	203 x 203 x 1219	14
A8860RT	8.00 x 8.00 x 60.00	203 x 203 x 1524	14
A8872RT	8.00 x 8.00 x 72.00	203 x 203 x 1829	14
A8896RT	8.00 x 8.00 x 96.00	203 x 203 x 2438	14
A88116RT	8.00 x 8.00 x 116.00	203 x 203 x	14
A101024RT	10.00 x 10.00 x 24.00	254 x 254 x 610	14
A101036RT	10.00 x 10.00 x 36.00	254 x 254 x 914	14
A101048RT	10.00 x 10.00 x 48.00	254 x 254 x 1219	14
A101060RT	10.00 x 10.00 x 60.00	254 x 254 x 1524	14
A101072RT	10.00 x 10.00 x 72.00	254 x 254 x 1829	14
A101096RT	10.00 x 10.00 x 96.00	254 x 254 x	14
A1010116RT	10.00 x 10.00 x 116.00	254 x 254 x 2946	14
A121224RT	12.00 x 12.00 x 24.00	305 x 305 x 610	14
A121236RT	12.00 x 12.00 x 36.00	305 x 305 x 914	14
A121248RT	12.00 x 12.00 x 48.00	305 x 305 x 1219	14
A121260RT	12.00 x 12.00 x 60.00	305 x 305 x 1524	14
A121272RT	12.00 x 12.00 x 72.00	305 x 305 x 1829	14
A121284RT	12.00 x 12.00 x 84.00	305 x 305 x 2134	14
A121296RT	12.00 x 12.00 x 96.00	305 x 305 x 2438	14
A1212116RT	12.00 x 12.00 x 116.00	305 x 305 x 2946	14
A141448RT	14.00 x 14.00 x 48.00	356 x 356 x 1219	14
A141472RT	14.00 x 14.00 x 72.00	356 x 356 x 1829	14
A141484RT	14.00 x 14.00 x 84.00	356 x 356 x 2134	14
A141496RT	14.00 x 14.00 x 96.00	356 x 356 x 2438	14
A1414116RT	14.00 x 14.00 x 116.00	356 x 356 x 2946	14

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ECONOTROUGH, NEMA TYPE 3R

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524; Raintight
cUL CSA C22.2 No. 26 Listed; File No. E27524; Raintight

NEMA/EEMAC Type 3R
IEC 60529, IP 32

APPLICATION

The EconoTrough meets basic functionality requirements for outdoor applications that may be exposed to wet conditions. A Padlock Hasp Kit can be installed for increased security.

FEATURES

- Drip-shield top covers sides, front and back
- Removable cover
- Embossed mounting holes on back of enclosure
- Provision for utility seal
- No gasketing or knockouts
- Padlock Hasp Kit available

SPECIFICATIONS

- 16 or 14 gauge galvanized steel

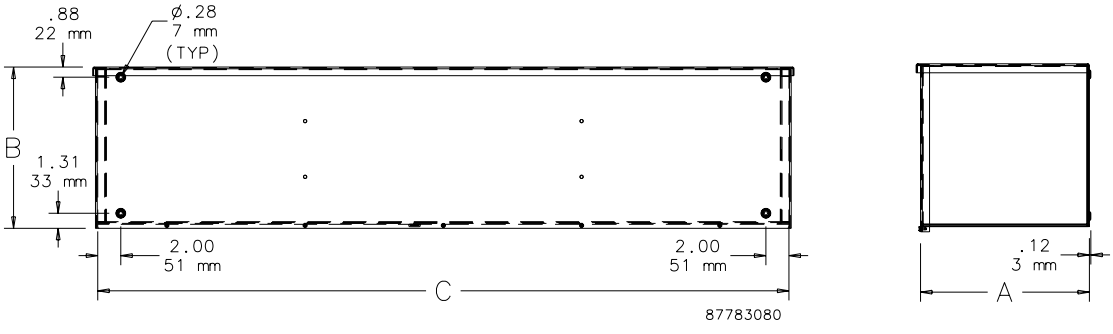
FINISH

Unpainted galvanized steel

ACCESSORIES

Padlock Hasp Kit, page 903

BULLETIN: F40GT, F40PT



Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Gauge
F4412RTGV	4.00 x 4.00 x 12.00	102 x 102 x 305	16
F4424RTGV	4.00 x 4.00 x 24.00	102 x 102 x 610	16
F4436RTGV	4.00 x 4.00 x 36.00	102 x 102 x 914	16
F4448RTGV	4.00 x 4.00 x 48.00	102 x 102 x 1219	16
F4460RTGV	4.00 x 4.00 x 60.00	102 x 102 x 1524	16
F4472RTGV	4.00 x 4.00 x 72.00	102 x 102 x 1829	16
F6612RTGV	6.00 x 6.00 x 12.00	152 x 152 x 305	16
F6618RTGV	6.00 x 6.00 x 18.00	152 x 152 x 457	16
F6624RTGV	6.00 x 6.00 x 24.00	152 x 152 x 610	16
F6636RTGV	6.00 x 6.00 x 36.00	152 x 152 x 914	16
F6648RTGV	6.00 x 6.00 x 48.00	152 x 152 x 1219	16
F6660RTGV	6.00 x 6.00 x 60.00	152 x 152 x 1524	16
F6672RTGV	6.00 x 6.00 x 72.00	152 x 152 x 1829	16
F8812RTGV	8.00 x 8.00 x 12.00	203 x 203 x 305	14
F8824RTGV	8.00 x 8.00 x 24.00	203 x 203 x 610	14
F8836RTGV	8.00 x 8.00 x 36.00	203 x 203 x 914	14
F8848RTGV	8.00 x 8.00 x 48.00	203 x 203 x 1219	14
F8860RTGV	8.00 x 8.00 x 60.00	203 x 203 x 1524	14
F8872RTGV	8.00 x 8.00 x 72.00	203 x 203 x 1829	14
F8896RTGV	8.00 x 8.00 x 96.00	203 x 203 x 2438	14
F88116RTGV	8.00 x 8.00 x 116.00	203 x 203 x 2946	14
F101024RTGV	10.00 x 10.00 x 24.00	254 x 254 x 610	14
F101036RTGV	10.00 x 10.00 x 36.00	254 x 254 x 914	14
F101048RTGV	10.00 x 10.00 x 72.00	254 x 254 x 1829	14
F101060RTGV	10.00 x 10.00 x 60.00	254 x 254 x 1524	14
F101072RTGV	10.00 x 10.00 x 72.00	254 x 254 x 1829	14
F101096RTGV	10.00 x 10.00 x 96.00	254 x 254 x 2438	14
F1010116RTGV	10.00 x 10.00 x 116.00	254 x 254 x 2946	14
F121224RTGV	12.00 x 12.00 x 24.00	305 x 305 x 610	14
F121236RTGV	12.00 x 12.00 x 36.00	305 x 305 x 914	14
F121248RTGV	12.00 x 12.00 x 48.00	305 x 305 x 1219	14
F121260RTGV	12.00 x 12.00 x 60.00	305 x 305 x 1524	14
F121272RTGV	12.00 x 12.00 x 72.00	305 x 305 x 1829	14
F121284RTGV	12.00 x 12.00 x 84.00	305 x 305 x 2134	14
F121296RTGV	12.00 x 12.00 x 96.00	305 x 305 x 2438	14
F1212116RTGV	12.00 x 12.00 x 116.00	305 x 305 x 2946	14
F141448RTGV	14.00 x 14.00 x 48.00	356 x 356 x 1219	14
F141472RTGV	14.00 x 14.00 x 72.00	356 x 356 x 1829	14
F141496RTGV	14.00 x 14.00 x 96.00	356 x 356 x 2438	14
F1414116RTGV	14.00 x 14.00 x 116.00	356 x 356 x 2946	14

PADLOCK HASP KIT

Provides a means to padlock NEMA Type 3R trough.

BULLETIN: F40GT

Catalog Number	Description	Kit Qty.
APLK3R	Padlock Hasp	1

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HINGED COVER WIRING TROUGH, NEMA TYPE 12

APPLICATION

This wiring trough meets basic functionality requirements for moist or dirty applications, with the added feature of a hinged, screw clamp cover for easy access.

FEATURES

- Ends and seams continuously welded and ground smooth
- No holes or knockouts
- Butt hinges
- External screw clamps
- Screw clamps
- Oil-resistant gasket and adhesive

SPECIFICATIONS

- 14 gauge steel covers and bodies

FINISH

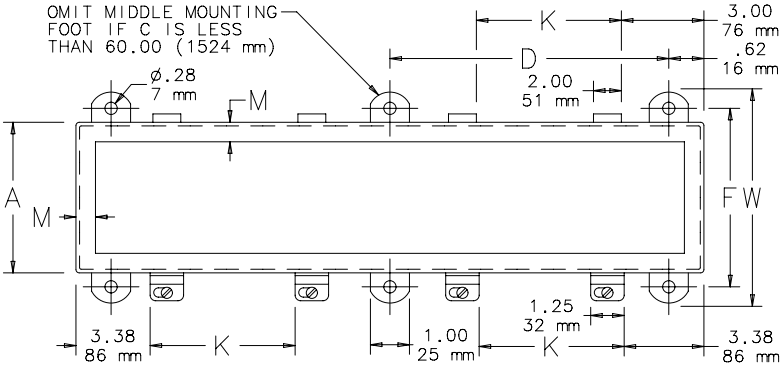
ANSI 61 gray polyester powder coating inside and out over pretreated surfaces.

BULLETIN: F20HC

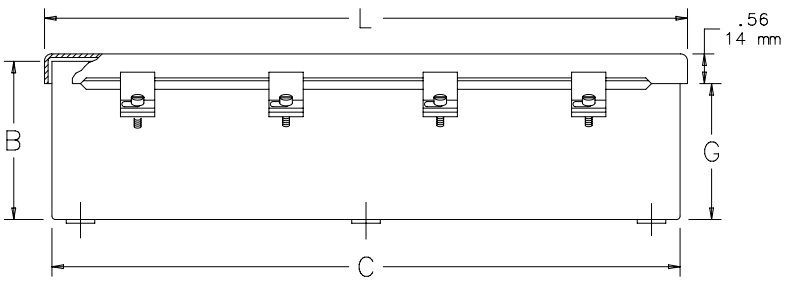
INDUSTRY STANDARDS

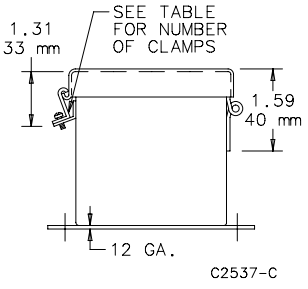
UL 870 Listed; File No. E27524

NEMA Type 12
JIC standards EGP-1-1967 and EMP-1-1967
CSA, File No. 42184, Type 1
IEC 60529, IP55



TOP VIEW WITH COVER REMOVED





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Standard Product

Catalog Number	AxBxC in./mm	Clamps	Mounting Bracket	D in./mm	F in./mm	G in./mm	K in./mm	L in./mm	M in./mm	W in./mm
F22T12HC	2.50 x 2.50 x 12.00	2	2	—	3.19	2.11	—	12.25	0.41	4.00
	64 x 64 x 305			—	81	54	—	311	10	102
F22T18HC	2.50 x 2.50 x 18.00	2	2	—	3.19	2.11	—	18.25	0.41	4.00
	64 x 64 x 457			—	81	54	—	464	10	102
F22T24HC	2.50 x 2.50 x 24.00	2	2	—	3.19	2.11	—	24.25	0.41	4.00
	64 x 64 x 610			—	81	54	—	616	10	102
F22T36HC	2.50 x 2.50 x 36.00	3	3	—	3.19	2.11	14.00	36.25	0.41	4.00
	64 x 64 x 914			—	81	54	356	921	10	102
F22T48HC	2.50 x 2.50 x 48.00	3	2	—	3.19	2.11	20.00	48.25	0.41	4.00
	64 x 64 x 1219			—	81	54	508	1226	10	102
F22T60HC	2.50 x 2.50 x 60.00	4	3	29.38	3.19	2.11	17.34	60.25	0.41	4.00
	64 x 64 x 1524			746	81	54	440	1530	10	102
F22T72HC	2.50 x 2.50 x 72.00	5	3	35.38	3.19	2.11	16.00	72.25	0.41	4.00
	64 x 64 x 1829			899	81	54	406	1835	10	102
F44T12HC	4.00 x 4.00 x 12.00	2	2	—	4.69	3.59	—	12.25	0.41	5.50
	102 x 102 x 305			—	119	91	—	311	10	140
F44T18HC	4.00 x 4.00 x 18.00	2	2	—	4.69	3.59	—	18.25	0.41	5.50
	102 x 102 x 457			—	119	91	—	464	10	140
F44T24HC	4.00 x 4.00 x 24.00	2	2	—	4.69	3.59	—	24.25	0.41	5.50
	102 x 102 x 610			—	119	91	—	616	10	140
F44T30HC	4.00 x 4.00 x 30.00	3	2	—	4.69	3.59	11.00	30.25	0.41	5.50
	102 x 102 x 762			—	119	91	279	768	10	140
F44T36HC	4.00 x 4.00 x 36.00	3	2	—	4.69	3.59	14.00	36.25	0.41	5.50
	102 x 102 x 914			—	119	91	356	921	10	140
F44T48HC	4.00 x 4.00 x 48.00	3	2	—	4.69	3.59	20.00	48.25	0.41	5.50
	102 x 102 x 1219			—	119	91	508	1226	10	140
F44T60HC	4.00 x 4.00 x 60.00	4	3	29.38	4.69	3.59	17.34	60.25	0.41	5.50
	102 x 102 x 1524			746	119	91	440	1530	10	140
F44T72HC	4.00 x 4.00 x 72.00	5	3	35.38	4.69	3.59	16.00	72.25	0.56	5.50
	102 x 102 x 1829			899	119	91	406	1835	14	140
F66T12HC	6.00 x 6.00 x 12.00	2	2	—	6.69	5.59	—	12.25	0.41	7.50
	152 x 152 x 305			—	170	142	—	311	10	191
F66T18HC	6.00 x 6.00 x 18.00	2	2	—	6.69	5.59	—	18.25	0.41	7.50
	152 x 152 x 457			—	170	142	—	464	10	191
F66T24HC	6.00 x 6.00 x 24.00	2	2	—	6.69	5.59	—	24.25	0.41	7.50
	152 x 152 x 610			—	170	142	—	616	10	191
F66T30HC	6.00 x 6.00 x 30.00	3	2	—	6.69	5.59	11.00	30.25	0.41	7.50
	152 x 152 x 762			—	170	142	279	768	10	191
F66T36HC	6.00 x 6.00 x 36.00	3	2	—	6.69	5.59	14.00	36.25	0.41	7.50
	152 x 152 x 914			—	170	142	356	921	10	191
F66T48HC	6.00 x 6.00 x 48.00	3	2	—	6.69	5.59	20.00	48.25	0.41	7.50
	152 x 152 x 1219			—	170	142	508	1226	10	191
F66T60HC	6.00 x 6.00 x 60.00	4	3	29.38	6.69	5.59	17.34	60.25	0.41	7.50
	152 x 152 x 1524			746	170	142	440	1530	10	191
F66T72HC	6.00 x 6.00 x 72.00	5	3	35.38	6.69	5.59	16.00	72.25	0.56	7.50
	152 x 152 x 1829			899	170	142	406	1835	14	191
F88T12HC	8.00 x 8.00 x 12.00	2	2	—	8.69	7.61	—	12.25	0.75	9.50
	203 x 203 x 305			—	221	193	—	311	19	241
F88T24HC	8.00 x 8.00 x 24.00	2	2	—	8.69	7.61	n/a	24.25	0.75	9.50
	203 x 203 x 610			—	221	193	—	616	19	241
F88T36HC	8.00 x 8.00 x 36.00	3	2	—	8.69	7.61	14.00	36.25	0.75	9.50
	203 x 203 x 914			—	221	193	356	921	19	241
F88T48HC	8.00 x 8.00 x 48.00	3	2	—	8.69	7.61	20.00	48.25	0.75	9.50
	203 x 203 x 1219			—	221	193	508	1226	19	241
F88T60HC	8.00 x 8.00 x 60.00	4	3	29.38	8.69	7.61	17.34	60.25	0.75	9.50
	203 x 203 x 1524			746	221	193	440	1530	19	241
F1212T60HC	12.00 x 12.00 x 60.00	4	3	29.38	12.69	11.61	17.34	60.25	0.75	13.50
	305 x 305 x 1524			746	322	295	440	1530	19	343
F1212T24HC	12.00 x 12.00 x 24.00	2	2	—	12.69	11.61	—	24.25	0.75	13.50
	305 x 305 x 610			—	322	295	—	616	19	343
F1212T36HC	12.00 x 12.00 x 36.00	3	2	—	12.69	11.61	14.00	36.25	0.75	13.50
	305 x 305 x 914			—	322	295	357	921	19	343
F1212T48HC	12.00 x 12.00 x 48.00	3	2	—	12.69	11.61	20.00	48.25	0.75	13.50
	305 x 305 x 1219			—	322	295	508	1226	19	343

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SCREW COVER WIRING TROUGH, NEMA TYPE 12

INDUSTRY STANDARDS

UL 870 Listed; File No. E27524

NEMA/EEMAC Type 12
JIC standards EGP-1-1967 and EMP-1-1967
CSA, File No. 42184: Type 12
IEC 60529, IP55

APPLICATION

This wiring trough meets basic functionality requirements for applications in which frequent access is not needed. Providing protection in moist or dirty environments, the trough can be customized with different finish colors and textures.

FEATURES

- Ends and seams continuously welded and ground smooth; no holes or knockouts
- Captivated cover screws thread into sealed wells
- Oil-resistant gasket and adhesive

SPECIFICATIONS

- 14 gauge steel covers and bodies
- F2212SC is 16 gauge steel

FINISH

ANSI 61 gray polyester powder finish inside and out over pretreated surfaces.

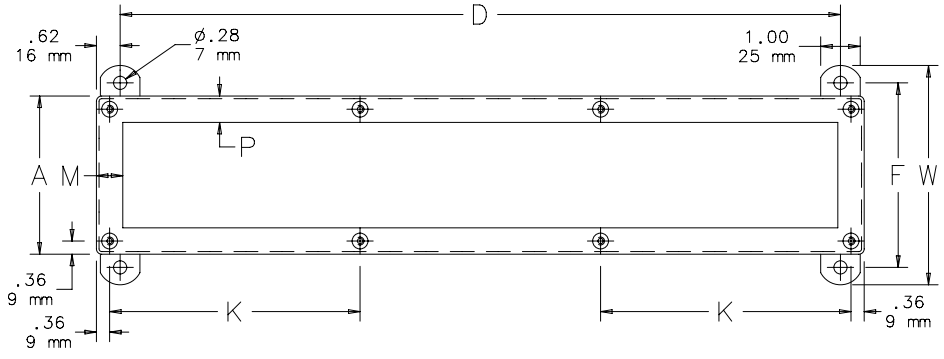
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

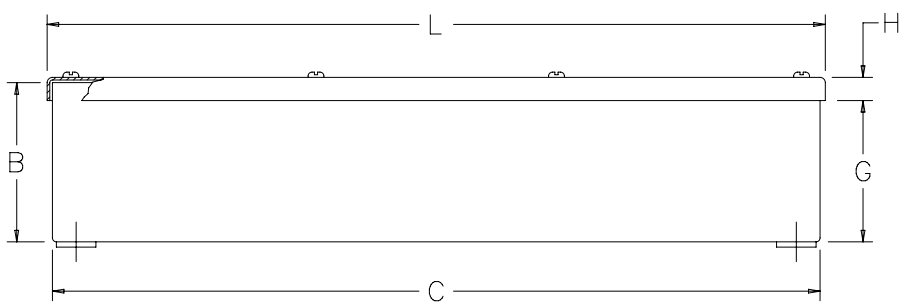
BULLETIN: F20SC

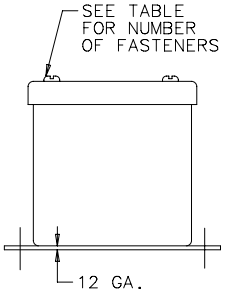
Standard Product

Catalog Number	AxBxC in./mm	Number of Fasteners	D in./mm	F in./mm	G in./mm	H in./mm	K in./mm	L in./mm	M in./mm	P in./mm	W in./mm
F2212SC	2.50 x 2.50 x 12.00 64 x 64 x 305	4	10.75 273	3.19 81	2.09 53	0.56 14	— —	12.22 310	0.69 18	0.41 10	4.00 102
F4412SC	4.00 x 4.00 x 12.00 102 x 102 x 305	4	10.75 273	4.69 119	3.59 91	0.58 15	— —	12.25 311	0.69 18	0.69 18	5.50 140
F4418SC	4.00 x 4.00 x 18.00 102 x 102 x 457	6	16.75 425	4.69 119	3.59 91	0.58 15	8.64 219	18.25 464	0.69 18	0.69 18	5.50 140
F4424SC	4.00 x 4.00 x 24.00 102 x 102 x 610	6	22.75 578	4.69 119	3.59 91	0.58 15	11.64 296	24.25 616	0.69 18	0.69 18	5.50 140
F4430SC	4.00 x 4.00 x 30.00 102 x 102 x 762	8	28.75 730	4.69 119	3.59 91	0.58 15	9.77 248	30.25 768	0.69 18	0.69 18	5.50 140



TOP VIEW WITH COVER REMOVED





C2538-C

nVent | HOFFMAN

FIBERGLASS WIRING TROUGH, NEMA TYPE 12 AND 3R

INDUSTRY STANDARDS

Flammability Rating UL 94-5V Meets UL cold impact test for temperatures to -35 C

NEMA Type 12 and Type 3R
IEC 60529, IP55
Recognized by National Electric Code for indoor and outdoor applications

APPLICATION

This lightweight, temperature- and chemically-resistant fiberglass trough is designed for use in corrosive or dirty indoor or outdoor applications.

FEATURES

- Seams are sealed
- No holes or knockouts
- Captivated Monel cover screws
- Oil-resistant gasket attached with oil-resistant adhesive

SPECIFICATIONS

- Pultruded fiberglass polyester bodies and covers

FINISH

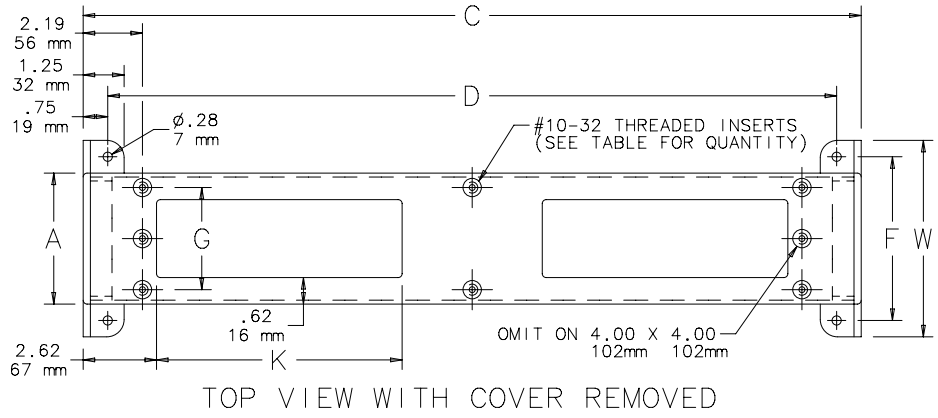
Fiberglass wireway is gray inside and out.

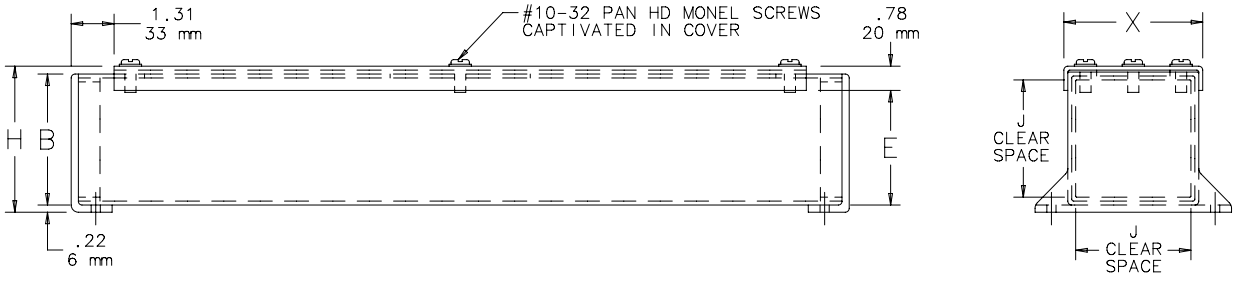
BULLETIN: F25

nVent | HOFFMAN

Standard Product

Catalog Number	AxBxC in./mm	Number of Openings	Number of Cover Screws	D in./mm	E in./mm	F in./mm	G in./mm	H in./mm	J in./mm	K in./mm	W in./mm	X in./mm
F4412FG	4.00 x 4.00 x 12.00 102 x 102 x 305	1	4	10.38 264	3.50 89	5.00 127	3.12 79	4.50 114	3.12 79	6.62 168	6.00 152	4.34 110
F4424FG	4.00 x 4.00 x 24.00 102 x 102 x 610	2	6	22.38 568	3.50 89	5.00 127	3.12 79	4.50 114	3.12 79	8.50 216	6.00 152	4.34 110
F4436FG	4.00 x 4.00 x 36.00 102 x 102 x 914	3	8	34.38 873	3.50 89	5.00 127	3.12 79	4.50 114	3.12 79	8.50 216	6.00 152	4.34 110
F4448FG	4.00 x 4.00 x 48.00 102 x 102 x 1219	4	10	46.38 1178	3.50 89	5.00 127	3.12 79	4.50 114	3.12 79	8.50 216	6.00 152	4.34 110
F4460FG	4.00 x 4.00 x 60.00 102 x 102 x 1524	5	12	58.38 1483	3.50 89	5.00 127	3.12 79	4.50 114	3.12 79	8.50 216	6.00 152	4.34 110
F6612FG	6.00 x 6.00 x 12.00 152 x 152 x 305	1	6	10.38 264	5.50 140	7.00 178	5.12 130	6.50 165	5.12 130	6.62 168	8.00 203	6.34 161
F6624FG	6.00 x 6.00 x 24.00 152 x 152 x 610	2	8	22.38 568	5.50 140	7.00 178	5.12 130	6.50 165	5.12 130	8.50 216	8.00 203	6.34 161
F6636FG	6.00 x 6.00 x 36.00 152 x 152 x 914	3	10	34.38 873	5.50 140	7.00 178	5.12 130	6.50 165	5.12 130	8.50 216	8.00 203	6.34 161
F6648FG	6.00 x 6.00 x 48.00 152 x 152 x 1219	4	12	46.38 1178	5.50 140	7.00 178	5.12 130	6.50 165	5.12 130	8.50 216	8.00 203	6.34 161
F6660FG	6.00 x 6.00 x 60.00 152 x 152 x 1524	5	14	58.38 1483	5.50 140	7.00 178	5.12 130	6.50 165	5.12 130	8.50 216	8.00 203	6.34 161





C2539-C

nVent | HOFFMAN

SCREW COVER WIRING TROUGH, NEMA TYPE 4X

INDUSTRY STANDARDS

UL 870, 50E Listed; Type 3R, 4, 4X, 12; File No. E27524; cUL Listed per CSA C22.2 No. 26 & No. 94.2; Type 3R, 4, 4X, 12

IEC 60529, IP66

APPLICATION

This wiring trough meets basic functionality requirements for applications in which frequent access is not needed. Provides protection for use in corrosive or dirty indoor and outdoor environments.

FEATURES

- Seams continuously welded and ground smooth
- Oil-resistant gasket and adhesive
- Captivated stainless steel cover screw threaded into sealed walls
- No holes or knockouts

SPECIFICATIONS

- Type 304 stainless steel covers and bodies
- 12 to 16 gauge stainless steel

FINISH

No. 2B finish

ACCESSORIES

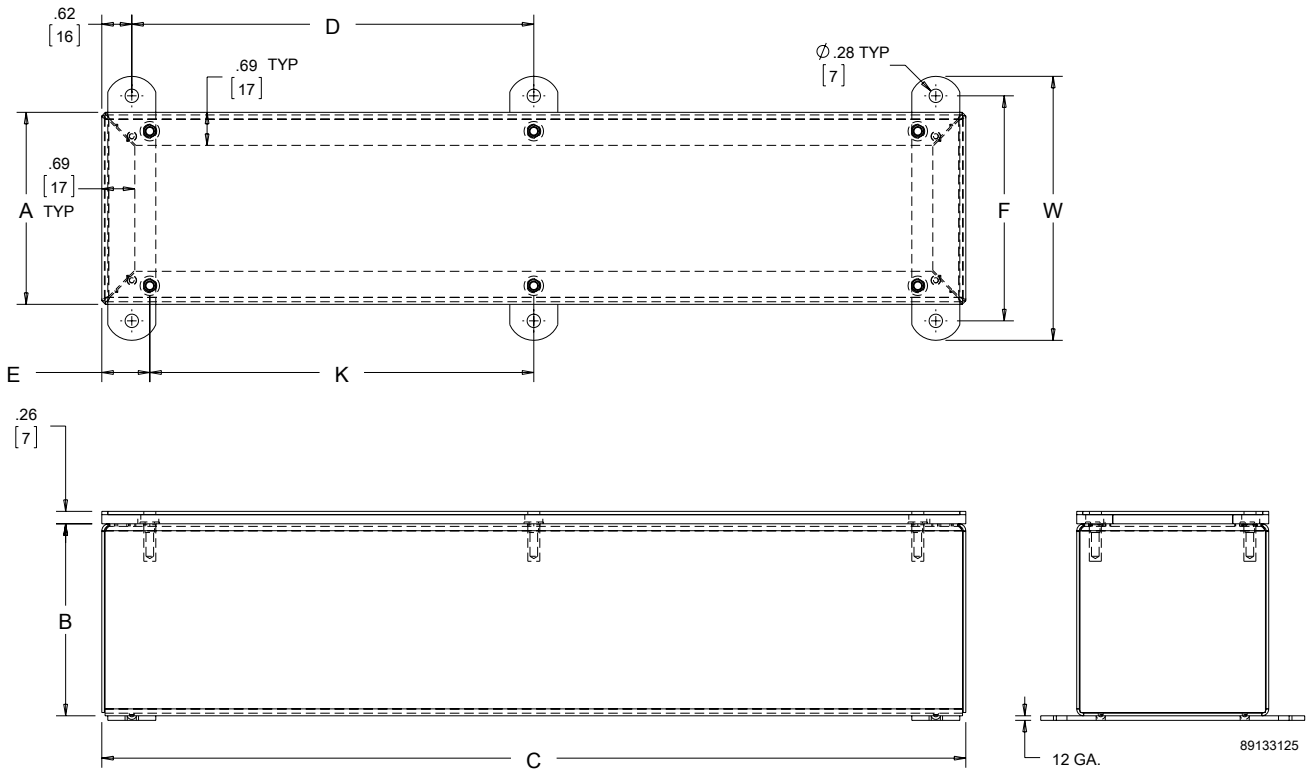
Handle Kit, page 911

BULLETIN: F24

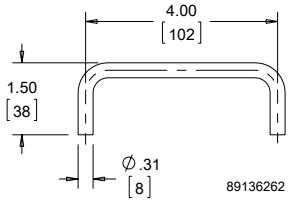
Standard Product

Catalog Number	AxBxC in./mm	No. of Cover Screws	Cover Gauge	Body Gauge	D in./mm	E in./mm	F in./mm	K in./mm	W in./mm
F4412SCSS	4.00 x 4.00 x 12.00 102 x 102 x 305	4	12	16	10.75 273	.38 10	4.69 119	11.25 286	5.50 140
F4418SCSS	4.00 x 4.00 x 18.00 102 x 102 x 457	6	14	16	16.75 425	1.00 25	4.69 119	8.00 203	5.50 140
F4424SCSS	4.00 x 4.00 x 24.00 102 x 102 x 610	6	12	16	22.75 578	.75 19	4.69 119	11.25 286	5.50 140
F6612SCSS	6.00 x 6.00 x 12.00 153 x 153 x 305	4	12	16	10.75 273	.38 10	6.69 170	11.25 286	7.50 191
F6624SCSS	6.00 x 6.00 x 24.00 153 x 153 x 610	6	12	16	22.75 578	.75 19	6.69 170	11.25 286	7.50 191
F6636SCSS	6.00 x 6.00 x 36.00 153 x 153 x 915	8	14	16	34.75 823	1.12 29	6.69 170	11.25 286	7.50 191
F6648SCSS	6.00 x 6.00 x 48.00 153 x 153 x 1220	10	14	16	46.75 1187	1.50 38	6.69 170	11.25 286	7.50 191
F8824SCSS	8.00 x 8.00 x 24.00 204 x 204 x 610	6	12	14	22.75 578	.75 19	8.69 221	11.25 286	9.50 241
F8836SCSS	8.00 x 8.00 x 36.00 204 x 204 x 915	8	14	14	34.75 823	1.12 29	8.69 221	11.25 286	9.50 241
F8848SCSS	8.00 x 8.00 x 48.00 204 x 204 x 1220	10	14	14	46.75 1187	1.50 38	8.69 221	11.25 286	9.50 241
F121224SCSS	12.00 x 12.00 x 24.00 305 x 305 x 610	6	12	14	22.75 578	.75 19	12.69 322	11.25 286	13.50 343
F121236SCSS	12.00 x 12.00 x 36.00 305 x 305 x 915	8	14	14	34.75 823	1.12 29	12.69 322	11.25 286	13.50 343
F121248SCSS	12.00 x 12.00 x 48.00 305 x 305 x 1220	10	14	14	46.75 1187	1.50 38	12.69 322	11.25 286	13.50 343
F121260SCSS	12.00 x 12.00 x 60.00 305 x 305 x 1524	12	12	14	29.38 746	1.88 48	12.69 322	11.25 286	13.50 343
F121272SCSS	12.00 x 12.00 x 72.00 305 x 305 x 1829	14	12	14	35.38 899	1.88 48	12.69 322	11.25 286	13.50 343

Omit center mounting foot if C is less than 60 in. (1524 mm).



HANDLE KIT



Handles are stainless steel for mounting on enclosure sides. Kit includes two handles and all mounting hardware.

BULLETIN: F24

Standard Product

Catalog Number	Description
STSCHDL	Stainless steel handles

CLEAN TRAY STAINLESS STEEL CABLE TRAY, TYPE 1

INDUSTRY STANDARDS

UL Classified; File No. E263414
This product is classified as to its suitability as an equipment grounding conductor only.

NEMA/EEMAC Type 1

APPLICATION

The CLEAN TRAY Stainless Steel Cable Tray is designed to protect rated cabling in applications that require frequent washdown. A variety of sloped-top fittings with front, inside or outside cover options allows for highly-customized runs using standard catalog product and supports directional control of washdown effluence.

FEATURES

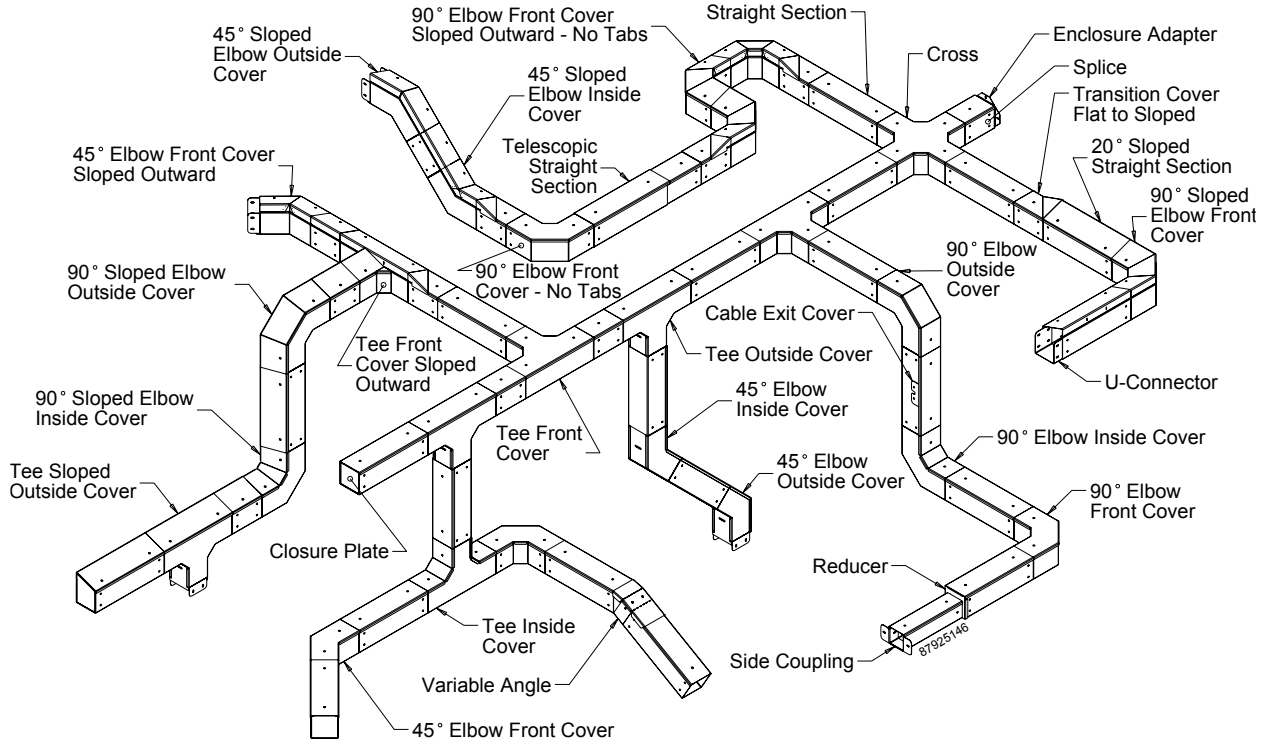
- Adjustable dividers
- Tops and sides can completely open
- Flat cover and 20-degree sloped cover models available
- Perforated fittings and straight sections
- Elbows contain three cover options: front, inside and outside
- Connecting hardware is included with each model
- Quarter-turn latches

SPECIFICATIONS

- 18 gauge stainless steel

FINISH

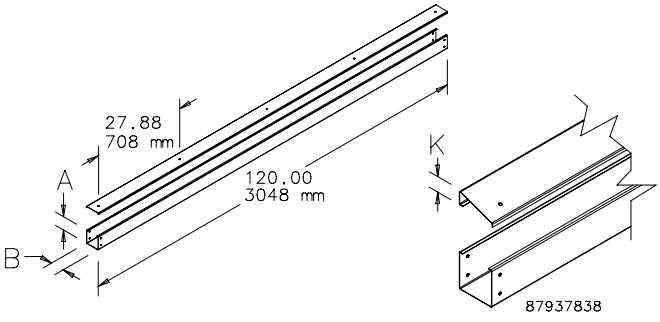
Smooth brushed finish



STRAIGHT SECTION

Straight sections are available in 10-ft. lengths with or without perforations. Available with a 20-degree sloped cover in some sizes. One U-connector and hardware is supplied with each straight section.

BULLETIN: F23



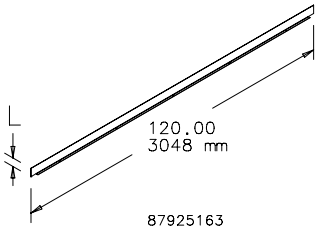
Catalog Number	AxBxC in./mm	Description	K in./mm
CT22120SS	2.00 x 2.00 x 120.00 51 x 51 x 3048	Standard	— —
CT33120SS	3.00 x 3.00 x 120.00 76 x 76 x 3048	Standard	— —
CT44120SS	4.00 x 4.00 x 120.00 102 x 102 x 3048	Standard	— —
CT46120SS	4.00 x 6.00 x 120.00 102 x 152 x 3048	Standard	— —
CT66120SS	6.00 x 6.00 x 120.00 152 x 152 x 3048	Standard	— —
CT22P120SS	2.00 x 2.00 x 120.00 51 x 51 x 3048	Perforated	— —
CT33P120SS	3.00 x 3.00 x 120.00 76 x 76 x 3048	Perforated	— —
CT44P120SS	4.00 x 4.00 x 120.00 102 x 102 x 3048	Perforated	— -
CT46P120SS	4.00 x 6.00 x 120.00 102 x 152 x 3048	Perforated	— —
CT66P120SS	6.00 x 6.00 x 120.00 152 x 152 x 3048	Perforated	— —
CTS33120SS	3.00 x 3.00 x 120.00 76 x 76 x 3048	Sloped Top	1.06 24
CTS44120SS	4.00 x 4.00 x 120.00 102 x 102 x 3048	Sloped Top	1.42 36
CTS46120SS	4.00 x 6.00 x 120.00 102 x 152 x 3048	Sloped Top	2.16 55
CTS66120SS	6.00 x 6.00 x 120.00 152 x 152 x 3048	Sloped Top	2.16 55
CTS33P120SS	3.00 x 3.00 x 120.00 76 x 76 x 3048	Sloped Top Perforated	1.06 27
CTS44P120SS	4.00 x 4.00 x 120.00 102 x 102 x 3048	Sloped Top Perforated	1.42 36
CTS46P120SS	4.00 x 6.00 x 120.00 102 x 152 x 3048	Sloped Top Perforated	2.16 55
CTS66P120SS	6.00 x 6.00 x 120.00 152 x 152 x 3048	Sloped Top Perforated	2.16 55

DIVIDER STRAIGHT SECTION

Used to divide one straight section into two sections.

BULLETIN: F23

Catalog Number	H in./mm	L in./mm	Fits Cable Tray Size in./mm
CT33DSS	2.13 54	120 3048	3.00 x 3.00 76 x 76
CT44DSS	3.13 79	120 3048	4.00 x 4.00, 4.00 x 6.00 102 x 102, 102 x 152
CT66DSS	5.13 130	120 3048	6.00 x 6.00 152 x 152

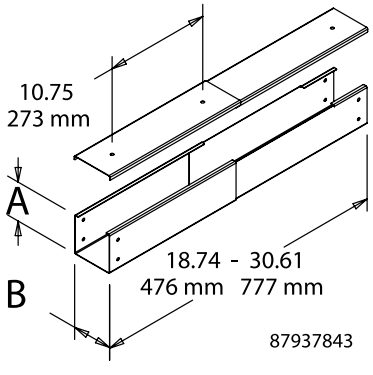


TELESCOPIC STRAIGHT SECTION

Adjusts from 18.74 in. to 30.61 in.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm
CT22TSS	2.00 x 2.00	51 x 51
CT33TSS	3.00 x 3.00	76 x 76
CT44TSS	4.00 x 4.00	102 x 102
CT46TSS	4.00 x 6.00	102 x 152
CT66TSS	6.00 x 6.00	152 x 152



DIVIDER, TELESCOPIC STRAIGHT SECTION

Must be trimmed to length.

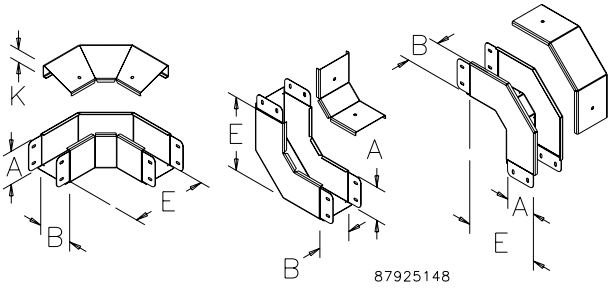
BULLETIN: F23

Catalog Number	AxB in.	AxB mm
CT33TDSPSS	3.00 x 3.00	76 x 76
CT44TDSPSS	4.00 x 4.00	102 x 102
CT66TDSPSS	6.00 x 6.00	152 x 152

90-DEGREE ELBOWS

Used wherever a 90-degree transition is required. Models without tabs connect directly to another elbow without using a splice.

BULLETIN: F23



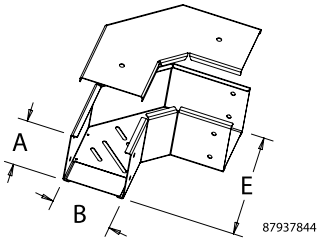
Catalog Number	AxB in.	AxB mm	Description	E (in.)	E (mm)	K (in.)	K (mm)
CT22EFC90SS	2.00 x 2.00	51 x 51	Front Cover	6.00	152	—	—
CT33EFC90SS	3.00 x 3.00	76 x 76	Front Cover	7.00	178	—	—
CT44EFC90SS	4.00 x 4.00	102 x 102	Front Cover	9.00	229	—	—
CT46EFC90SS	4.00 x 6.00	102 x 152	Front Cover	11.00	279	—	—
CT66EFC90SS	6.00 x 6.00	152 x 152	Front Cover	11.00	279	—	—
CT22EFCNT90SS	2.00 x 2.00	51 x 51	Front Cover without Tabs	6.00	152	—	—
CT33EFCNT90SS	3.00 x 3.00	76 x 76	Front Cover without Tabs	7.00	178	—	—
CT44EFCNT90SS	4.00 x 4.00	102 x 102	Front Cover without Tabs	9.00	229	1.42	36
CT46EFCNT90SS	4.00 x 6.00	102 x 152	Front Cover without Tabs	11.00	279	2.16	55
CT66EFCNT90SS	6.00 x 6.00	152 x 152	Front Cover without Tabs	11.00	279	2.16	55
CT22EIC90SS	2.00 x 2.00	51 x 51	Inside Cover	6.00	152	—	—
CT33EIC90SS	3.00 x 3.00	76 x 76	Inside Cover	7.00	178	—	—
CT44EIC90SS	4.00 x 4.00	102 x 102	Inside Cover	9.00	229	—	—
CT46EIC90SS	4.00 x 6.00	102 x 152	Inside Cover	11.00	279	—	—
CT66EIC90SS	6.00 x 6.00	152 x 152	Inside Cover	11.00	279	—	—
CT22EOC90SS	2.00 x 2.00	51 x 51	Outside Cover	6.00	152	—	—
CT33EOC90SS	3.00 x 3.00	76 x 76	Outside Cover	7.00	178	—	—
CT44EOC90SS	4.00 x 4.00	102 x 102	Outside Cover	9.00	229	—	—
CT46EOC90SS	4.00 x 6.00	102 x 152	Outside Cover	11.00	279	—	—
CT66EOC90SS	6.00 x 6.00	152 x 152	Outside Cover	11.00	279	—	—
CT22PEFC90SS	2.00 x 2.00	51 x 51	Front Cover Perforated	6.00	152	—	—
CT33PEFC90SS	3.00 x 3.00	76 x 76	Front Cover Perforated	7.00	178	—	—
CT44PEFC90SS	4.00 x 4.00	102 x 102	Front Cover Perforated	9.00	229	—	—
CT46PEFC90SS	4.00 x 6.00	102 x 152	Front Cover Perforated	11.00	279	—	—
CT66PEFC90SS	6.00 x 6.00	152 x 152	Front Cover Perforated	11.00	279	—	—
CTS33EFC90SS	3.00 x 3.00	76 x 76	Front Cover Sloped Inward	7.00	178	1.06	27
CTS44EFC90SS	4.00 x 4.00	102 x 102	Front Cover Sloped Inward	9.00	229	1.42	36
CTS46EFC90SS	4.00 x 6.00	102 x 152	Front Cover Sloped Inward	11.00	279	2.16	55
CTS66EFC90SS	6.00 x 6.00	152 x 152	Front Cover Sloped Inward	11.00	279	2.16	55
CTS33PEFC90SS	3.00 x 3.00	76 x 76	Front Cover Sloped Inward Perforated	7.00	178	1.06	27
CTS44PEFC90SS	4.00 x 4.00	102 x 102	Front Cover Sloped Inward Perforated	9.00	229	1.42	36
CTS46PEFC90SS	4.00 x 6.00	102 x 152	Front Cover Sloped Inward Perforated	11.00	279	2.16	55
CTS66PEFC90SS	6.00 x 6.00	152 x 152	Front Cover Sloped Inward Perforated	11.00	279	2.16	55

90-DEGREE ELBOWS—PERFORATED WITHOUT TABS

Used wherever a 90-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	E (in.)	E (mm)
CT22PEFCNT90SS	2.00 x 2.00	51 x 51	6.00	152
CT33PEFCNT90SS	3.00 x 3.00	76 x 76	7.00	178
CT44PEFCNT90SS	4.00 x 4.00	102 x 102	9.00	229
CT46PEFCNT90SS	4.00 x 6.00	102 x 152	11.00	279
CT66PEFCNT90SS	6.00 x 6.00	152 x 152	11.00	279

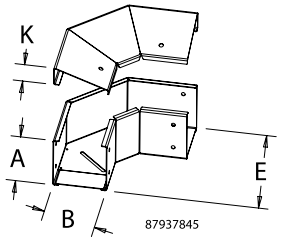


90-DEGREE ELBOWS—FRONT COVER SLOPED INWARD WITHOUT TABS

Used wherever a 90-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS44EFCNT90SS	4.00 x 4.00 102 x 102	9.00 229	1.42 36
CTS46EFCNT90SS	4.00 x 6.00 102 x 152	11.00 279	2.16 55
CTS66EFCNT90SS	6.00 x 6.00 152 x 152	11.00 279	2.16 55

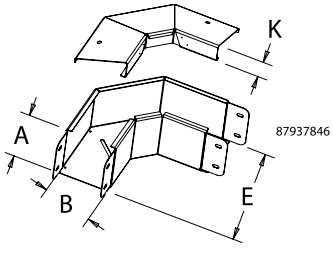


90-DEGREE ELBOWS—FRONT COVER SLOPED OUTWARD WITH TABS

Used wherever a 90-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS44EFCO90SS	4.00 x 4.00 102 x 102	9.00 229	1.42 36
CTS46EFCO90SS	4.00 x 6.00 102 x 152	11.00 279	2.16 55
CTS66EFCO90SS	6.00 x 6.00 152 x 152	11.00 279	2.16 55

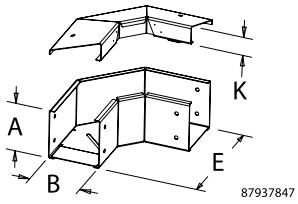


90-DEGREE ELBOWS—FRONT COVER SLOPED OUTWARD WITHOUT TABS

Used wherever a 90-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS44EFCONT90SS	4.00 x 4.00 102 x 102	9.00 229	1.42 36
CTS46EFCONT90SS	4.00 x 6.00 102 x 152	11.00 279	2.16 55
CTS66EFCONT90SS	6.00 x 6.00 152 x 152	11.00 279	2.16 55

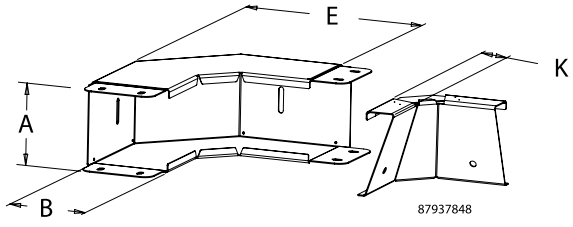


90-DEGREE ELBOWS—INSIDE COVER SLOPED

Used wherever a 90-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS44EIC90SS	4.00 x 4.00 102 x 102	9.00 229	1.42 36
CTS46EIC90SS	4.00 x 6.00 102 x 152	11.00 279	2.16 55
CTS66EIC90SS	6.00 x 6.00 152 x 152	11.00 279	2.16 55



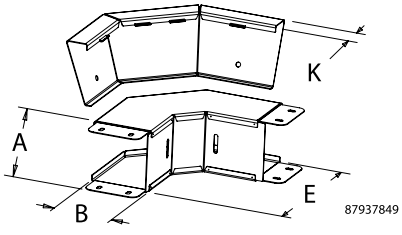
90-DEGREE ELBOWS—OUTSIDE COVER SLOPED

Used wherever a 90-degree transition is required.

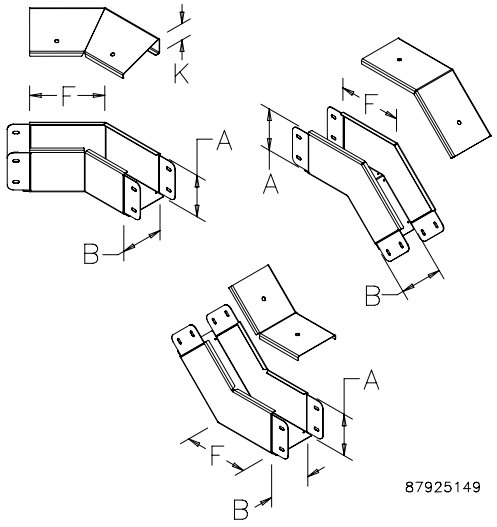
BULLETIN: F23

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS44EOC90SS	4.00 x 4.00 102 x 102	9.00 229	1.42 36
CTS46EOC90SS	4.00 x 6.00 102 x 152	11.00 279	2.16 55

Catalog Number	AxB in./mm	E in./mm	K in./mm
CTS66EOC90SS	6.00 x 6.00 152 x 152	11.00 279	2.16 55



45-DEGREE ELBOWS



Used wherever a 45-degree transition is required.

BULLETIN: F23

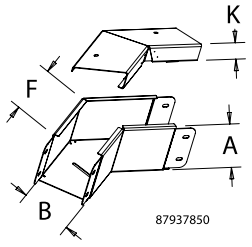
Catalog Number	AxB in.	AxB mm	Description	F (in.)	F (mm)	K (in.)	K (mm)
CT22EFC45SS	2.00 x 2.00	51 x 51	Front Cover	4.57	116	—	—
CT33EFC45SS	3.00 x 3.00	76 x 76	Front Cover	4.98	127	—	—
CT44EFC45SS	4.00 x 4.00	102 x 102	Front Cover	5.96	151	—	—
CT46EFC45SS	4.00 x 6.00	102 x 152	Front Cover	6.79	173	—	—
CT66EFC45SS	6.00 x 6.00	152 x 152	Front Cover	6.79	173	—	—
CT22EIC45SS	2.00 x 2.00	51 x 51	Inside Cover	4.57	116	—	—
CT33EIC45SS	3.00 x 3.00	76 x 76	Inside Cover	4.98	127	—	—
CT44EIC45SS	4.00 x 4.00	102 x 102	Inside Cover	5.96	151	—	—
CT46EIC45SS	4.00 x 6.00	102 x 152	Inside Cover	6.79	173	—	—
CT66EIC45SS	6.00 x 6.00	152 x 152	Inside Cover	6.79	173	—	—
CT22EOC45SS	2.00 x 2.00	51 x 51	Outside Cover	4.57	116	—	—
CT33EOC45SS	3.00 x 3.00	76 x 76	Outside Cover	4.98	127	—	—
CT44EOC45SS	4.00 x 4.00	102 x 102	Outside Cover	5.96	151	—	—
CT46EOC45SS	4.00 x 6.00	102 x 152	Outside Cover	6.79	173	—	—
CT66EOC45SS	6.00 x 6.00	152 x 152	Outside Cover	6.79	173	—	—
CT22PEFC45SS	2.00 x 2.00	51 x 51	Front Cover Perforated	4/57	116	—	—
CT33PEFC45SS	3.00 x 3.00	76 x 76	Front Cover Perforated	4.98	127	—	—
CT44PEFC45SS	4.00 x 4.00	102 x 102	Front Cover Perforated	5.96	151	—	—
CT46PEFC45SS	4.00 x 6.00	102 x 152	Front Cover Perforated	6.79	173	—	—
CT66PEFC45SS	6.00 x 6.00	152 x 152	Front Cover Perforated	6.79	173	—	—
CTS33EFC45SS	3.00 x 3.00	76 x 76	Front Cover Sloped	4.98	127	1.06	27
CTS44EFC45SS	4.00 x 4.00	102 x 102	Front Cover Sloped	5.96	151	1.42	36
CTS46EFC45SS	4.00 x 6.00	102 x 152	Front Cover Sloped	6.79	173	2.16	55
CTS66EFC45SS	6.00 x 6.00	152 x 152	Front Cover Sloped	6.79	173	2.16	55
CTS33PEFC45SS	3.00 x 3.00	76 x 76	Front Cover Sloped Perforated	4.98	127	1.06	27
CTS44PEFC45SS	4.00 x 4.00	102 x 102	Front Cover Sloped Perforated	5.96	151	1.42	36
CTS46PEFC45SS	4.00 x 6.00	102 x 152	Front Cover Sloped Perforated	6.79	173	2.16	55
CTS66PEFC45SS	6.00 x 6.00	152 x 152	Front Cover Sloped Perforated	6.79	173	2.16	55

45-DEGREE ELBOWS—FRONT COVER SLOPED OUTWARD

Used wherever a 45-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	F in./mm	K in./mm
CTS44EFC045SS	4.00 x 4.00 102 x 102	5.96 151	1.42 36
CTS46EFC045SS	4.00 x 6.00 102 x 152	6.79 173	2.16 55
CTS66EFC045SS	6.00 x 6.00 152 x 152	6.79 173	2.16 55



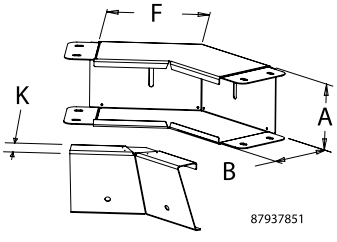
45-DEGREE ELBOWS—INSIDE COVER SLOPED

Used wherever a 45-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	F in./mm	K in./mm
CTS44EIC45SS	4.00 x 4.00 102 x 102	5.96 151	1.42 36
CTS46EIC45SS	4.00 x 6.00 102 x 152	6.79 173	2.16 55

Catalog Number	AxB in./mm	F in./mm	K in./mm
CTS66EIC45SS	6.00 x 6.00 152 x 152	6.79 173	2.16 55

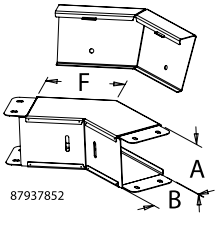


45-DEGREE ELBOWS—OUTSIDE COVER SLOPED

Used wherever a 45-degree transition is required.

BULLETIN: F23

Catalog Number	AxB in./mm	F in./mm	K in./mm
CTS44EOC45SS	4.00 x 4.00 102 x 102	5.96 151	1.42 36
CTS46EOC45SS	4.00 x 6.00 102 x 152	6.79 173	2.16 55
CTS66EOC45SS	6.00 x 6.00 152 x 152	6.79 173	2.16 55

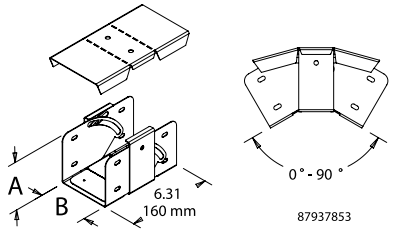


VARIABLE-ANGLE ELBOW FITTING

Adjustable from 0 to 90 degrees. Simplifies and saves field integration and installation time.

BULLETIN: F23

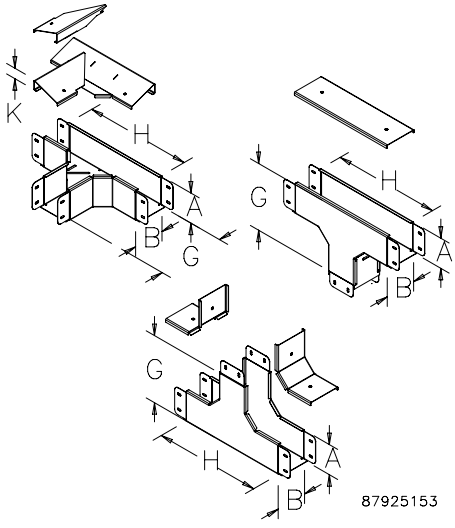
Catalog Number	AxB in.	AxB mm
CT22VSS	2.00 x 2.00	51 x 51
CT33VSS	3.00 x 3.00	76 x 76
CT44VSS	4.00 x 4.00	102 x 102
CT46VSS	4.00 x 6.00	102 x 152
CT66VSS	6.00 x 6.00	152 x 152



90-DEGREE TEE

Available with or without perforations in three cover options: front, inside and outside. Used wherever two 90-degree transitions are required. Available with a 20-degree sloped cover in some sizes (Front Cover only).

BULLETIN: F23



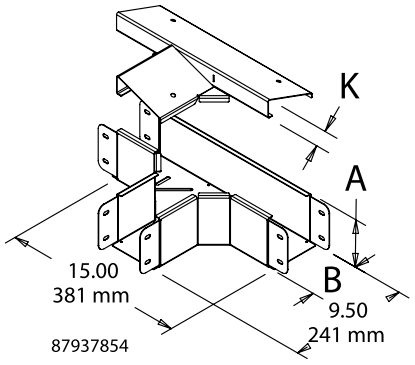
Catalog Number	AxB in.	AxB mm	Description	G (in.)	G (mm)	H (in.)	H (mm)	K (in.)	K (mm)
CT22TFCSS	2.00 x 2.00	51 x 51	Front Cover	3.00	152	10.00	254	–	–
CT33TFCSS	3.00 x 3.00	76 x 76	Front Cover	9.00	229	14.00	356	–	–
CT44TFCSS	4.00 x 4.00	102 x 102	Front Cover	7.00	178	11.00	279	–	–
CT46TFCSS	4.00 x 6.00	102 x 152	Front Cover	11.00	279	16.00	406	–	–
CT66TFCSS	6.00 x 6.00	152 x 152	Front Cover	11.00	279	16.00	406	–	–
CT33TICSS	3.00 x 3.00	76 x 76	Inside Cover	7.00	178	11.00	279	–	–
CT44TICSS	4.00 x 4.00	102 x 102	Inside Cover	9.00	229	14.00	356	–	–
CT46TICSS	4.00 x 6.00	102 x 152	Inside Cover	11.00	279	16.00	406	–	–
CT66TICSS	6.00 x 6.00	152 x 152	Inside Cover	11.00	279	16.00	406	–	–
CT22TOCSS	2.00 x 2.00	51 x 51	Outside Cover	6.00	152	10.00	254	–	–
CT33TOCSS	3.00 x 3.00	76 x 76	Outside Cover	7.00	178	11.00	279	–	–
CT44TOCSS	4.00 x 4.00	102 x 102	Outside Cover	9.00	229	14.00	356	–	–
CT46TOCSS	4.00 x 6.00	102 x 152	Outside Cover	11.00	279	16.00	406	–	–
CT66TOCSS	6.00 x 6.00	152 x 152	Outside Cover	11.00	279	16.00	406	–	–
CT22PTFCSS	2.00 x 2.00	51 x 51	Front Cover Perforated	6.00	152	10.00	254	–	–
CT33PTFCSS	3.00 x 3.00	76 x 76	Front Cover Perforated	7.00	178	11.00	279	–	–
CT44PTFCSS	4.00 x 4.00	102 x 102	Front Cover Perforated	9.00	229	14.00	356	–	–
CT46PTFCSS	4.00 x 6.00	102 x 152	Front Cover Perforated	11.00	279	16.00	406	–	–
CT66PTFCSS	6.00 x 6.00	152 x 152	Front Cover Perforated	11.00	279	16.00	406	–	–
CTS33TFCSS	3.00 x 3.00	76 x 76	Front Cover Sloped	7.00	178	11.00	279	1.06	27
CTS44TFCSS	4.00 x 4.00	102 x 102	Front Cover Sloped	9.00	229	14.00	356	1.42	36
CTS46TFCSS	4.00 x 6.00	102 x 152	Front Cover Sloped	11.00	279	16.00	406	2.16	55
CTS66TFCSS	6.00 x 6.00	152 x 152	Front Cover Sloped	11.00	279	16.00	406	2.16	55
CTS33PTFCSS	3.00 x 3.00	76 x 76	Front Cover Sloped Perforated	7.00	178	11.00	279	1.06	27
CTS44PTFCSS	4.00 x 4.00	102 x 102	Front Cover Sloped Perforated	9.00	229	14.00	356	1.42	36
CTS46PTFCSS	4.00 x 6.00	102 x 152	Front Cover Sloped Perforated	11.00	279	16.00	406	2.16	55
CTS66PTFCSS	6.00 x 6.00	152 x 152	Front Cover Sloped Perforated	11.00	279	16.00	406	2.16	55

90-DEGREE TEE—FRONT COVER SLOPED OUTWARD

Used wherever two 90-degree transitions are required.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	K (in.)	K (mm)
CTS44TFCOSS	4.00 x 4.00	102 x 102	1.42	36
CTS46TFCOSS	4.00 x 6.00	102 x 152	2.16	55
CTS66TFCOSS	6.00 x 6.00	152 x 152	2.16	55

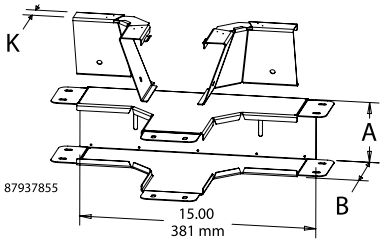


90-DEGREE TEE—INSIDE COVER SLOPED

Used wherever two 90-degree transitions are required.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	K (in.)	K (mm)
CTS44TICSS	4.00 x 4.00	102 x 102	1.42	36
CTS46TICSS	4.00 x 6.00	102 x 152	2.16	55
CTS66TICSS	6.00 x 6.00	152 x 152	2.16	55

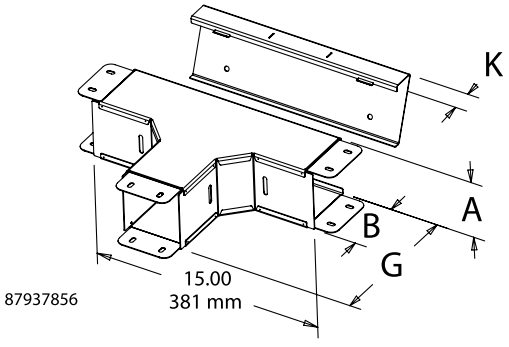


90-DEGREE TEE—OUTSIDE COVER SLOPED

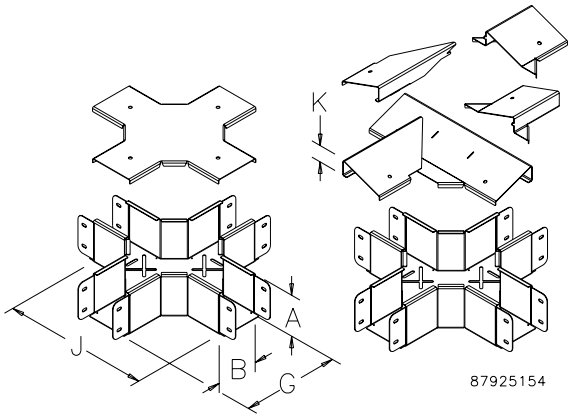
Used wherever two 90-degree transitions are required.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	G (in.)	G (mm)	K (in.)	K (mm)
CTS44TOCSS	4.00 x 4.00	102 x 102	9.00	229	1.42	36
CTS46TOCSS	4.00 x 6.00	102 x 152	11.00	279	2.16	55
CTS66TOCSS	6.00 x 6.00	152 x 152	11.00	279	2.16	55



CROSS



Available with or without perforations. Used where there are four branches. Available with 20-degree sloped cover in some sizes. Kit includes both left and right sloped covers to create any configuration.

BULLETIN: F23

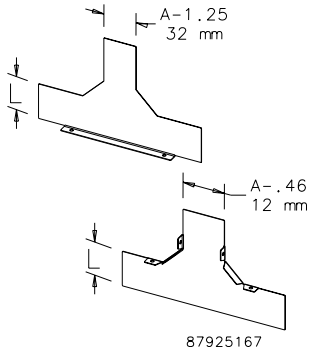
Catalog Number	AxB in.	AxB mm	Description	G (in.)	G (mm)	J (in.)	J (mm)	K (in.)	K (mm)
CT22CSS	2.00 x 2.00	51 x 51	Standard	6.00	152	10	254	—	—
CT33CSS	3.00 x 3.00	76 x 76	Standard	7.00	178	11.00	279	—	—
CT44CSS	4.00 x 4.00	102 x 102	Standard	9.00	229	14.00	356	—	—
CT46CSS	4.00 x 6.00	102 x 152	Standard	11.00	279	16.00	406	—	—
CT66CSS	6.00 x 6.00	152 x 152	Standard	11.00	279	16.00	406	—	—
CT22PCSS	2.00 x 2.00	51 x 51	Perforated	6.00	152	10.00	254	—	—
CT33PCSS	3.00 x 3.00	76 x 76	Perforated	7.00	178	11.00	279	—	—
CT44PCSS	4.00 x 4.00	102 x 102	Perforated	9.00	229	14.00	356	—	—
CT46PCSS	4.00 x 6.00	102 x 152	Perforated	11.00	279	16.00	406	—	—
CT66PCSS	6.00 x 6.00	152 x 152	Perforated	11.00	279	16.00	406	—	—
CTS33CSS	3.00 x 3.00	76 x 76	Sloped Top	7.00	178	11.00	279	1.06	27
CTS44CSS	4.00 x 4.00	102 x 102	Sloped Top	9.00	229	14.00	356	1.42	36
CTS46CSS	4.00 x 6.00	102 x 152	Sloped Top	11.00	279	16.00	406	2.16	55
CTS66CSS	6.00 x 6.00	152 x 152	Sloped Top	11.00	279	16.00	406	2.16	55
CTS33PCSS	3.00 x 3.00	76 x 76	Sloped Top Perforated	7.00	178	11.00	279	1.06	27
CTS44PCSS	4.00 x 4.00	102 x 102	Sloped Top Perforated	9.00	229	14.00	356	1.42	36
CTS46PCSS	4.00 x 6.00	102 x 152	Sloped Top Perforated	11.00	279	16.00	406	2.16	55
CTS66PCSS	6.00 x 6.00	152 x 152	Sloped Top Perforated	11.00	279	16.00	406	2.16	55

DIVIDER 90-DEGREE TEE

Used to divide a 90-degree tee into two sections.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	Fits Cable Tray Size	Description	L (in.)	L (mm)
CT33DTFCSS	3.00 x 3.00	76 x 76	3 x 3	Front Cover	2.13	54
CT44DTFCSS	4.00 x 4.00	102 x 102	4 x 4	Front Cover	3.13	79
CT46DTFCSS	4.00 x 6.00	102 x 152	4 x 6	Front Cover	3.13	79
CT66DTFCSS	6.00 x 6.00	152 x 152	6 x 6	Front Cover	5.13	130
CT33DTICSS	3.00 x 3.00	76 x 76	3 x 3	Inside Cover	2.13	54
CT44DTICSS	4.00 x 4.00	102 x 102	4 x 4	Inside Cover	3.13	79
CT66DTICSS	6.00 x 6.00	152 x 152	6 x 6	Inside Cover	5.13	130
CT33DTOCSS	3.00 x 3.00	76 x 76	3 x 3	Outside Cover	2.13	54
CT44DTOCSS	4.00 x 4.00	102 x 102	4 x 4	Outside Cover	3.13	79
CT66DTOCSS	6.00 x 6.00	152 x 152	6 x 6	Outside Cover	5.13	130

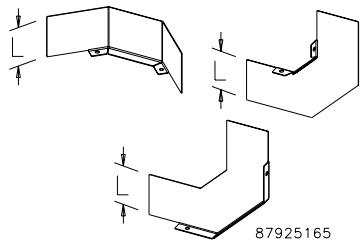


DIVIDER 90-DEGREE ELBOW

Used to divide a 90-degree elbow into two sections.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	Description	Fits Cable Tray Size	L (in.)	L (mm)
CT33DEFC90SS	3.00 x 3.00	76 x 76	Front Cover	3 x 3	2.13	54
CT44DEFC90SS	4.00 x 4.00	102 x 102	Front Cover	4 x 4	3.13	79
CT46DEFC90SS	4.00 x 6.00	102 x 152	Front Cover	4 x 6	3.13	79
CT66DEFC90SS	6.00 x 6.00	152 x 152	Front Cover	6 x 6	5.13	130
CT33DEIC90SS	3.00 x 3.00	76 x 76	Inside Cover	3 x 3	2.13	54
CT44DEIC90SS	4.00 x 4.00	102 x 102	Inside Cover	4 x 4, 4 x 6	3.13	79
CT66DEIC90SS	6.00 x 6.00	152 x 152	Inside Cover	6 x 6	5.13	130
CT33DEOC90SS	3.00 x 3.00	76 x 76	Outside Cover	3 x 3	2.13	54
CT44DEOC90SS	4.00 x 4.00	102 x 102	Outside Cover	4 x 4, 4 x 6	3.13	79
CT66DEOC90SS	6.00 x 6.00	152 x 152	Outside Cover	6 x 6	5.13	130

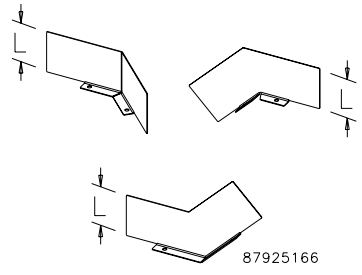


DIVIDER 45-DEGREE ELBOW

Used to divide a 45-degree elbow into two sections.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	Description	Fits Cable Tray Size	L (in.)	L (mm)
CT33DEFC45SS	3.00 x 3.00	76 x 76	Front Cover	3 x 3	2.13	54
CT44DEFC45SS	4.00 x 4.00	102 x 102	Front Cover	4 x 4	3.13	79
CT46DEFC45SS	4.00 x 6.00	102 x 152	Front Cover	4 x 6	3.13	79
CT66DEFC45SS	6.00 x 6.00	152 x 152	Front Cover	6 x 6	5.13	130
CT33DEIC45SS	3.00 x 3.00	76 x 76	Inside Cover	3 x 3	2.13	54
CT44DEIC45SS	4.00 x 4.00	102 x 102	Inside Cover	4 x 4, 4 x 6	3.13	79
CT66DEIC45SS	6.00 x 6.00	152 x 152	Inside Cover	6 x 6	5.13	130
CT33DEOC45SS	3.00 x 3.00	76 x 76	Outside Cover	3 x 3	2.13	54
CT44DEOC45SS	4.00 x 4.00	102 x 102	Outside Cover	4 x 4, 4 x 6	3.13	79
CT66DEOC45SS	6.00 x 6.00	152 x 152	Outside Cover	6 x 6	5.13	130

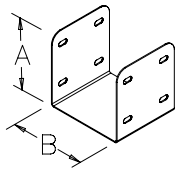


U-CONNECTOR

Used to connect two straight sections.

BULLETIN: F23

Catalog Number	AxB in./mm
CT22UCSS	2.00 x 2.00 51 x 51
CT33UCSS	3.00 x 3.00 76 x 76
CT44UCSS	4.00 x 4.00 102 x 102
CT46UCSS	4.00 x 6.00 102 x 152
CT66UCSS	6.00 x 6.00 152 x 152



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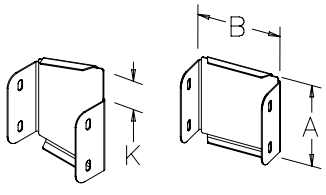
CLOSURE PLATE

Closes the end of a cable tray section or run. Available with 20-degree slope in some sizes (left slope shown).

BULLETIN: F23

Catalog Number	AxB in.	AxB mm	Description	K (in.)	K (mm)
CT22CPSS	2.00 x 2.00	51 x 51	Standard	—	—
CT33CPSS	3.00 x 3.00	76 x 76	Standard	—	—
CT44CPSS	4.00 x 4.00	102 x 102	Standard	—	—
CT46CPSS	4.00 x 6.00	102 x 152	Standard	—	—
CT66CPSS	6.00 x 6.00	152 x 152	Standard	—	—
CTS33CPRSS	3.00 x 3.00	76 x 76	Sloped Right	1.06	27
CTS33CPLSS	3.00 x 3.00	76 x 76	Sloped Left	1.06	27
CTS44CPRSS	4.00 x 4.00	102 x 102	Sloped Right	1.42	36
CTS44CPLSS	4.00 x 4.00	102 x 102	Sloped Left	1.42	36
CTS46CPRSS	4.00 x 6.00	102 x 152	Sloped Right	2.16	55
CTS46CPLSS	4.00 x 6.00	102 x 152	Sloped Left	2.16	55
CTS66CPRSS	6.00 x 6.00	152 x 152	Sloped Right	2.16	55
CTS66CPLSS	6.00 x 6.00	152 x 152	Sloped Left	2.16	55



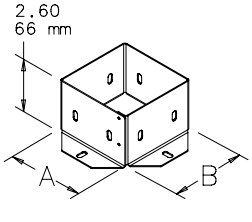
87925156

ENCLOSURE ADAPTER

Allows the cable tray to be securely connected to an enclosure.

BULLETIN: F23

Catalog Number	AxB in./mm
CT22AESS	2.00 x 2.00 51 x 51
CT33AESS	3.00 x 3.00 76 x 76
CT44AESS	4.00 x 4.00 102 x 102
CT46AESS	4.00 x 6.00 102 x 152
CT66AESS	6.00 x 6.00 152 x 152



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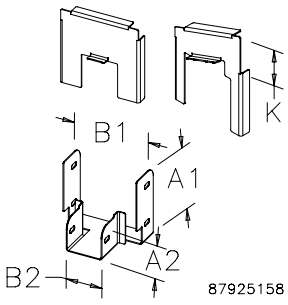
REDUCER

Used to reduce to a smaller size cable tray. Available with 20-degree slope in some sizes (right slope shown).

BULLETIN: F23



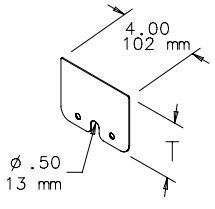
Catalog Number	AxB in.	AxB mm	Description	A2 (in.)	A2 (mm)	B2 (in.)	B2 (mm)	K (in.)	K (mm)
CT3322RSS	3.00 x 3.00	76 x 76	3 x 3 2 x 2 Standard	2.00	51	2.00	51	—	—
CT4433RSS	4.00 x 4.00	102 x 102	4 x 4 3 x 3 Standard	3.00	76	3.00	76	—	—
CT4422RSS	4.00 x 4.00	102 x 102	4 x4 2 x 2 Standard	2.00	51	2.00	51	—	—
CT4644RSS	4.00 x 6.00	102 x 152	4 x 6 4 x 4 Standard	4.00	102	4.00	102	—	—
CT4633RSS	4.00 x 6.00	102 x 152	4 x 6 3 x 3 Standard	3.00	76	3.00	76	—	—
CT6622RSS	6.00 x 6.00	152 x 152	6 x 6 2 x 2 Standard	2.00	51	2.00	51	—	—
CT6646RSS	6.00 x 6.00	152 x 152	6 x 6 4 x 6 Standard	4.00	102	6.00	152	—	—
CT6644RSS	6.00 x 6.00	152 x 152	6 x 6 4 x 4 Standard	4.00	102	4.00	102	—	—
CT6633RSS	6.00 x 6.00	152 x 152	6 x 6 3 x 3 Standard	3.00	76	3.00	76	—	—
CTS4433RRSS	4.00 x 4.00	102 x 102	4 x 4 3 x 3 Sloped Right	3.00	76	3.00	76	1.42	36
CTS4433RLSS	4.00 x 4.00	102 x 102	4 x 4 3 x 3 Sloped Left	3.00	76	3.00	76	1.42	36
CTS4644RRSS	4.00 x 6.00	102 x 152	4 x 6 4 x 4 Sloped Right	4.00	102	4.00	102	2.16	55
CTS4644RLSS	4.00 x 6.00	102 x 152	4 x 6 4 x 4 Sloped Left	4.00	102	4.00	102	2.16	55
CTS4633RRSS	4.00 x 6.00	102 x 152	4 x 6 3 x 3 Sloped Right	3.00	76	3.00	76	2.16	55
CTS4633RLSS	4.00 x 6.00	102 x 152	4 x 6 3 x 3 Sloped Left	3.00	76	3.00	76	2.16	55
CTS6646RRSS	6.00 x 6.00	152 x 152	6 x 6 4 x 6 Sloped Right	4.00	102	6.00	152	2.16	55
CTS6646RLSS	6.00 x 6.00	152 x 152	6 x 6 4 x 6 Sloped Left	4.00	102	6.00	152	2.16	55
CTS6644RRSS	6.00 x 6.00	152 x 152	6 x 6 4 x 4 Sloped Right	4.00	102	4.00	102	2.16	55
CTS6644RLSS	6.00 x 6.00	152 x 152	6 x 6 4 x 4 Sloped Left	4.00	102	4.00	102	2.16	55
CTS6633RRSS	6.00 x 6.00	152 x 152	6 x 6 3 x 3 Sloped Right	3.00	76	3.00	76	2.16	55
CTS6633RLSS	6.00 x 6.00	152 x 152	6 x 6 3 x 3 Sloped Left	3.00	76	3.00	76	2.16	55

CABLE EXIT COVER

Covers cables that exit the side of the cable tray. Will cover a keyhole or slot used to pass the cable through.

BULLETIN: F23

Catalog Number	T in./mm
CT2233CEC	1.50 38
CT4466CEC	3.00 76



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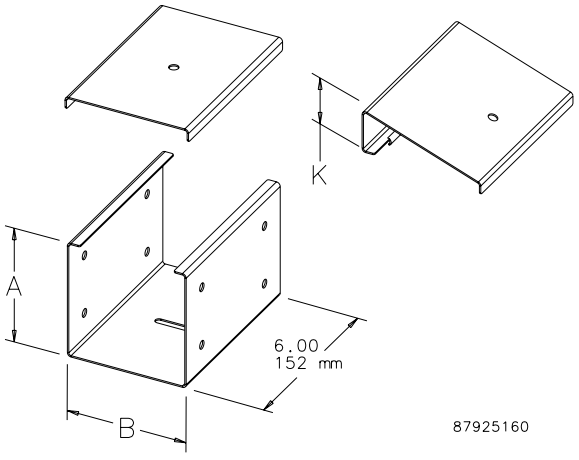
STRAIGHT SECTION SPLICE

Used to connect two fittings with tabs. Available with 20-degree slope in some sizes.

BULLETIN: F23



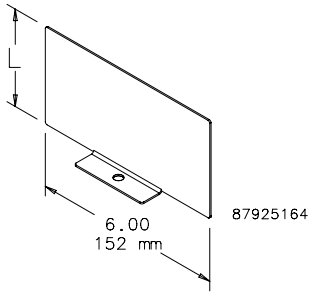
Catalog Number	AxB in.	AxB mm	Description	K (in.)	K (mm)
CT22SPSS	2.00 x 2.00	51 x 51	Standard	—	—
CT33SPSS	3.00 x 3.00	76 x 76	Standard	—	—
CT44SPSS	4.00 x 4.00	102 x 102	Standard	—	—
CT46SPSS	4.00 x 6.00	102 x 152	Standard	—	—
CT66SPSS	6.00 x 6.00	152 x 152	Standard	—	—
CT22PSPSS	2.00 x 2.00	51 x 51	Perforated	—	—
CT33PSPSS	3.00 x 3.00	76 x 76	Perforated	—	—
CT44PSPSS	4.00 x 4.00	102 x 102	Perforated	—	—
CT46PSPSS	4.00 x 6.00	102 x 152	Perforated	—	—
CT66PSPSS	6.00 x 6.00	152 x 152	Perforated	—	—
CTS33SPSS	3.00 x 3.00	76 x 76	Sloped Top	1.06	27
CTS44SPSS	4.00 x 4.00	102 x 102	Sloped Top	1.42	36
CTS46SPSS	4.00 x 6.00	102 x 152	Sloped Top	2.16	55
CTS66SPSS	6.00 x 6.00	152 x 152	Sloped Top	2.16	55
CTS33PSPSS	3.00 x 3.00	76 x 76	Sloped Top Perforated	1.06	27
CTS44PSPSS	4.00 x 4.00	102 x 102	Sloped Top Perforated	1.42	36
CTS46PSPSS	4.00 x 6.00	102 x 152	Sloped Top Perforated	2.16	55
CTS66PSPSS	6.00 x 6.00	152 x 152	Sloped Top Perforated	2.16	55

DIVIDER STRAIGHT SECTION SPLICE

Used to divide a straight section splice into two sections.

BULLETIN: F23

Catalog Number	H in./mm	L in./mm	Fits Cable Tray Size in./mm
CT33DSPSS	2.13 54	6.00 152	3.00 x 3.00 76 x 76
CT44DSPSS	3.13 79	6.00 152	4.00 x 4.00, 4.00 x 6.00 102 x 102, 102 x 152
CT66DSPSS	5.13 130	6.00 152	6.00 x 6.00 102 x 102, 152 x 152

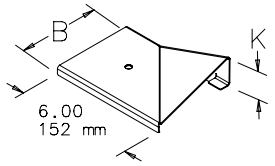


TRANSITION COVER

Transitions from a sloped to standard cable tray. Available with right- and left-hand slope. Will fit the Splice (order separately) or anywhere on a straight section (transition cover sloped to flat left-hand shown in drawing).

BULLETIN: F23

Catalog Number	Description	Fits Cable Tray Size	B in./mm	K in./mm
CTS33TCRSS	Transition Cover Sloped to Flat Right Hand	3 x 3	3.00 76	1.06 27
CTS33TCLSS	Transition Cover Sloped to Flat Left Hand	3 x 3	3.00 76	1.06 27
CTS44TCRSS	Transition Cover Sloped to Flat Right Hand	4 x 4	4.00 102	1.42 36
CTS44TCLSS	Transition Cover Sloped to Flat Left Hand	4 x 4	4.00 102	1.42 36
CTS46TCRSS	Transition Cover Sloped to Flat Right Hand	4 x 6, 6 x 6	6.00 152	2.16 55
CTS46TCLSS	Transition Cover Sloped to Flat Left Hand	4 x 6, 6 x 6	6.00 152	2.16 55



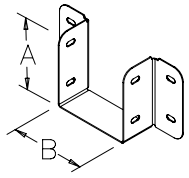
87925161

SIDE COUPLING

Used to connect staight sections or fittings to the side of a cable tray run. A cutout will be required in the side of the cable tray.

BULLETIN: F23

Catalog Number	AxB in.	AxB mm
CT22SCSS	2.00 x 2.00	51 x 51
CT33SCSS	3.00 x 3.00	76 x 76
CT44SCSS	4.00 x 4.00	102 x 102
CT46SCSS	4.00 x 6.00	102 x 152
CT66SCSS	6.00 x 6.00	152 x 152



87925162

FASTENER PACKAGE

1/4-20 stainless steel fasteners used to connect cable tray components.

BULLETIN: F23

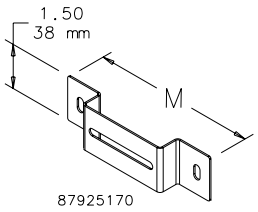
Catalog Number	Screws	Nuts
CT1420SS	100	100

HANGER BRACKET

Used to support a cable tray run.

BULLETIN: F23

Catalog Number	AxB in./mm	M in./mm	Pkg. Qty.
CT22HB	2.00 x 2.00 51 x 51	3.58 91	20
CT33HB	3.00 x 3.00 76 x 76	4.58 116	20
CT44HB	4.00 x 4.00 102 x 102	5.58 142	20
CT66HB	6.00 x 6.00 152 x 152	7.58 193	20



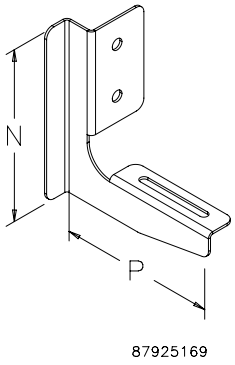
L-BRACKET

Used to support a cable tray run. Can be mounted to a vertical UNISTRUT® channel.

UNISTRUT is a registered trademark of Unistrut Corporation.

BULLETIN: F23

Catalog Number	AxB in./mm	N in./mm	P in./mm	Pkg. Qty.
CT22LB	2.00 x 2.00 51 x 51	3.00 76	3.64 92	20
CT33LB	3.00 x 3.00 76 x 76	4.00 102	4.64 118	20
CT44LB	4.00 x 4.00 102 x 102	5.00 127	5.64 143	20
CT66LB	6.00 x 6.00 152 x 152	7.64 194	7.64 194	20

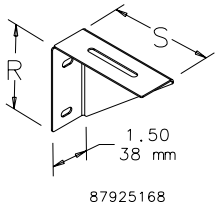


WALL BRACKET

Used to support a cable tray run.

BULLETIN: F23

Catalog Number	AxB in./mm	R in./mm	S in./mm	Pkg. Qty.
CT22WB	2.00 x 2.00 51 x 51	1.55 39	2.25 57	20
CT33WB	3.00 x 3.00 76 x 76	2.55 65	3.25 83	20
CT44WB	4.00 x 4.00 102 x 102	3.55 90	4.25 108	20
CT66WB	6.00 x 6.00 152 x 152	5.55 141	6.25 159	20



LATCH HARDWARE KITS

BULLETIN: F23

Catalog Number	Use on (in.)	Use on (mm)
CTLCHSS	2.00 x 2.00, 4.00 x 6.00, 6.00 x 6.00	51 x 51, 102 x 152, 152 x 152
CTLCH3SS	3.00 x 3.00	76 x 76
CTLCH4SS	4.00 x 4.00	102 x 102
CTSLCHSS	Sloped	—

nVent HOFFMAN

CHAPTER 10
THERMAL MANAGEMENT

SPECTRACOOL SLIM FIT AIR CONDITIONERS

Designed and developed to meet the requirements of worldwide industrial customers. With filterless operation, slim-fit design, global certifications and our new remote access controller, these air conditioners make automation cooling easy for system designers and operations maintenance teams around the world.

FILTER FANS

Filter Fans cool a wide range of heat loads in applications ranging from industrial drives to process equipment and controls. With more than 175 models, Type 12, Type 3R and Type 1 options, a wide range of airflow capabilities and various mounting options, Filter Fans are available for diverse environments.

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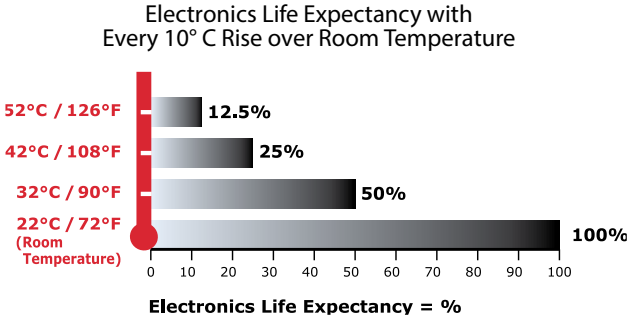
WHY COOL ELECTRICAL EQUIPMENT IN THE FIRST PLACE?

Keeping your electrical equipment cool is essential to extending their life and keeping your business running.

HEAT RUINS ELECTRICAL EQUIPMENT

The life expectancy of electrical equipment is cut in half every 10 C / 18 F they operate above room temperature. Operating electrical equipment above certain temperatures can void manufacturers' warranties, making proper cooling essential. Cooling vital electrical equipment increases service life and reduces capital expenses over the long-term.



SOURCES OF HEAT

Damaging heat can come from a variety of sources. Inside the cabinet, heat can come from:

- AC power supplies
- Controllers, drives and servos
- Transformers and rectifiers
- Processors and server racks
- Radio equipment
- And other electrical components

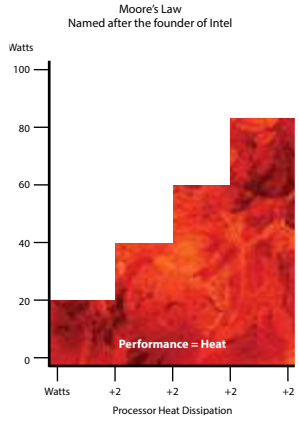
Heat also comes from sources outside the enclosure such as:

- Solar heat gain
- Welding processes
- Paint oven
- Blast furnace
- Foundry equipment

TREND TOWARD MORE DAMAGING HEAT

For the foreseeable future, the trend is toward increasing levels of heat in electrical equipment, not decreasing, because the market's thirst for more information processing capacity and speed continues to grow. This trend is known as "Moore's Law."

More powerful data-processing electrical equipment generates extra heat with virtually every new system that is designed. There is no guarantee that an application which did not require much, if any, cooling in the past will not need cooling in the future. The new system likely has more functionality and will probably require some form of cooling as a result.



THE CONSEQUENCES OF DAMAGING HEAT

Heat build-up can adversely affect industrial controls and sensitive electrical systems as follows:

- De-rated drive performance
- I/C-based devices experience intermittent fluctuations
- MTBF decreases exponentially
- Catastrophic failure

The costs when a factory line or electrical system fails can include:

- Productivity losses
- Component replacement costs
- Late shipments
- Customer dissatisfaction
- Lost revenue
- Cell phone tower outage
- Breach in homeland security

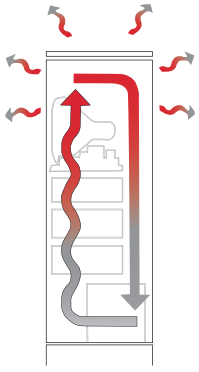
Direct costs to a business can be as much as $50,000 per hour of system downtime.

CONDUCTIVE ENCLOSURE COOLING

This is a passive way to cool electrical equipment. It simply allows the heat to radiate through the cabinet walls.

Conductive enclosure cooling works well with electrical systems that have small heat loads (<50 W) and cool air around the enclosure (<78 F/25 C).

If heat is an issue, one option within this type of cooling is to increase cabinet size to create more surface area to speed the transfer of heat. However, growing cabinet size is often not a practical solution because of space limitations and the greater heat loads associated with today's high-power electronics.

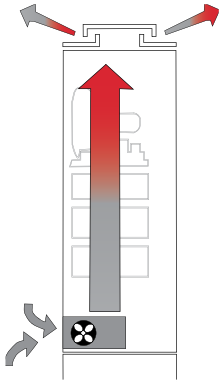


FRESH AIR ENCLOSURE COOLING

This is an active way to manage heat in electrical applications. This type of cooling ventilates fresh air through the cabinet, exhausting heat away from the hot components.

Fresh air enclosure cooling may be used when the electrical system is deployed in a relatively clean and cool environment such as an office building, data networking center or light-duty factory. Options for cooling electrical enclosures with fresh air include filter fans, fan trays, motorized impellers and packaged blowers.

Fresh air enclosure cooling is known as an "open-loop system" because no significant seal is maintained to protect electrical components from harmful elements such as dirt, water, metal filings and corrosive fumes.



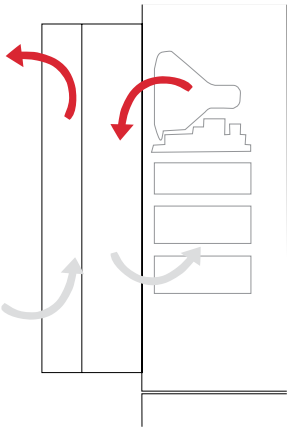
SEALED ENCLOSURE COOLING

This is another active way to cool electrical components. This type of cooling maintains the seal of the enclosure—using an air conditioner or heat exchanger as examples—to remove heat from inside the electrical cabinet.

Protective cooling is generally required when the electrical application:
(1) operates in high temperatures, typically over 95 F/35 C,
(2) is deployed in a harsh environment such as an outdoor telecom base station, wastewater treatment plant, metal working operation, oil rig platform, paper mill, foundry and/or
(3) generates a high heat load from its own components, usually more than 500 W.

Options for sealed enclosure cooling include air conditioners, air-to-air heat exchangers, air-to-water heat exchangers, thermoelectric coolers and vortex coolers.

Sealed enclosure cooling is known as a "closed-loop system" because the seal of the electrical cabinet is maintained, allowing no elements which can damage the electrical equipment inside the enclosure.



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SEALED VS. FRESH AIR ENCLOSURE COOLING

Since heat dissipation is often not a solution, we will limit our choices to sealed vs. fresh air enclosure cooling.

Use the environmental and electrical system criteria in the table below to determine whether sealed or fresh air enclosure cooling is most appropriate for your application.

Protective vs. Fresh Air Cooling

Specifying protective cooling that keeps your electrical components sealed from the outside environment versus using fresh air cooling to remove damaging heat depends on the following profile of your system application (check one side or the other for each of the six choices):

FRESH			PROTECTIVE	
Clean Air / Some Dust / Dripping Water	☐	**SYSTEM OPERATING ENVIRONMENT**	☐	Dirty / Wet / Metal Filings / Outdoors / Corrosive Fumes
Moderate to Low (typically under 35 C / 95 F)	☐	**TEMPERATURE OUTSIDE OF THE ENCLOSURE**	☐	Hot (typically over 35 C / 95 F)
Somewhat to Well-Above Ambient Temperature	☐	**TEMPERATURE RATING OF THE ELECTRICAL COMPONENTS**	☐	Below to Somewhat Above Ambient Temperature
Moderate to Low	☐	**HUMIDITY OUTSIDE OF THE ENCLOSURE**	☐	High Relative Humidity
Wide	☐	**TEMPERATURE RANGE FOR THE ELECTRICAL COMPONENTS**	☐	Narrow / Precise
Moderate to Low (typically under 3000 Watts)	☐	**SYSTEM POWER DRAW / HEAT LOAD**	☐	Moderate to High (typically over 3000 Watts)

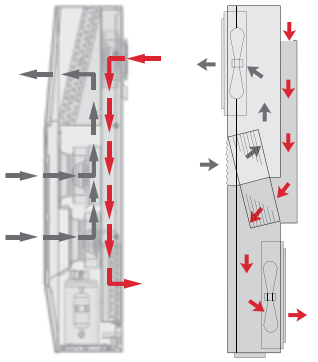
If most of your assessments fell on the fresh air side, then a filter fan, fan tray, motorized impeller or blower is probably the correct cooling solution for your application. However, if most of your assessments were on the protective side, then an air conditioner or heat exchanger found in the Is likely the right cooling solution for your electrical system.

INTRODUCTION

Assuming that sealed enclosure cooling is needed for the application, there are two basic choices—air conditioners or heat exchangers.

An air conditioner should be specified when:
- The temperature inside the enclosure must be maintained at or below the ambient temperature
- Humidity must be removed
- A moderate to high heat load is being produced by the electrical system

A heat exchanger can be used to transfer heat from inside the enclosure to the outside atmosphere when:
- The electrical components can operate at a temperature above the ambient air temperature
- Humidity is not a factor
- A low to moderate heat load is being produced by the electrical system



Air Conditioner Heat Exchanger

AIR CONDITIONER COOLING CAPACITY OVERVIEW

The cooling capacity of an air conditioner needs to match or exceed the amount of total heat load generated by the electrical system.

Total heat load comes from two sources:
(a) the electrical components themselves which is called "internal heat load" and
(b) the ambient heat outside the enclosure which is known as the "heat transfer load."

Most engineers and cooling suppliers determine internal heat load. However, the impact from the heat transfer load is easily overlooked. Heat transfer load can significantly add to the total heat load of the system, especially if the outside air temperature is high and/or the enclosure is located in the sun.

Thus, the **total heat load** to be removed from the electrical enclosure by the air conditioner is the sum of the **internal heat load** and the **heat transfer load.**

TOTAL HEAT LOAD = INTERNAL HEAT LOAD + HEAT TRANSFER LOAD

PART A: DETERMINE INTERNAL HEAT LOAD

The internal heat load comes from the amount of waste heat generated inside the enclosure by the electrical components and is expressed in Watts (W).

There are several methods to determine internal heat load, depending on data availability.

Method 1. Heat Load Data from Each Electrical Component Manufacturer
One way to estimate internal load is to gather heat load data from the manufacturers of the electrical components inside the cabinet. They may know the amount of heat their equipment is generating. If more than one control or other electrical components are inside the enclosure, it will be necessary to add together all the estimates of heat load to determine total internal heat load.

Method 2. Component Power – Component Efficiency

A second method is to establish the Watts of power used by each electrical component. Derive Watts of power by multiplying the amp draw of each device by its voltage. Then subtract the efficiency of each component from its estimated power use. Add up the outcomes to get the total internal heat load.

INTERNAL HEAT LOAD = COMPONENT POWER (W) - COMPONENT EFFICIENCY (for each electrical device)

For example:
An electrical system uses two components that draw 115 VAC at 15 amps. Each has a rated efficiency of 90%. Put another way, 10% of each device is inefficient. Unused power becomes generated heat. Thus the estimated internal heat load is:

Device Power = 115 x 15 = 1725 W
Total Power = 2 x 1725 = 3450
Less Efficiency = 3450 x (1 - .90)
Total Heat Load = 345 W

Method 3. Incoming – Outgoing Power
A third approach is to estimate the power going into the enclosure and the power coming out of it. The difference becomes the estimated amount of internal heat load. The amps and volts of each electrical line going in are multiplied to determine Watts, then they're added together. The same is done for the electrical line(s) coming out of the application. The outgoing Watts are then subtracted from the incoming Watts.

INTERNAL HEAT LOAD = INCOMING POWER (W) – OUTGOING POWER (W)

For example:
An enclosure has three input lines of 230 VAC at 11, 6 and 4 A. It has one output control line of 115 VAC at 9 A.

Incoming Power = (230 x 11) + (230 x 6) + (230 x 4) = 4830 W
Outgoing Power = 115 x 9 = 1035 W
Total Heat Load = 4830 – 1035 = 3795 W

Method 4. Automated Equipment Horsepower
This fourth method applies only to industrial automation equipment that operates with horsepower (hp) such as variable frequency drives (VFDs). 1 hp = 745.6 W. Thus, the internal heat load from a 3-hp VFD is 2237 W, less its efficiency which is typically 93-95%.

For example:
A cabinet has three 5-hp VFDs with 95% efficiency.

VFD Watts = 5 hp x 745.6 x 3 = 11184
Adjusted Watts = 11184 x (1 - .95) = 559
Total Heat Load = 559 x 1.25 = 699 W

1.25 is an assumed "safety" margin for other minor heat-producing components.

PART B: DETERMINING HEAT TRANSFER LOAD OVERVIEW

Heat transfer load is the ambient heat outside the enclosure conducting itself through the cabinet walls toward the electrical (heat energy travels from the hottest to coldest location).

When an air conditioner cools the enclosure temperature lower than the ambient air outside, additional heat load is drawn into the cabinet which the air conditioner needs to remove. The higher the ambient temperature and/or the presence of solar heat gain (the "greenhouse effect") on the enclosure, the more cooling capacity is required.

Determining heat transfer load requires that you know the **total surface area** of the cabinet, less any non-conductive surface area such as the enclosure side mounted to a wall. It also requires that you determine **ΔT**, which is the difference between maximum ambient temperature and the maximum temperature rating of the electrical components.

There are two methods for determining heat transfer load—the simple chart method and the equation method.

SIMPLE CHART METHOD

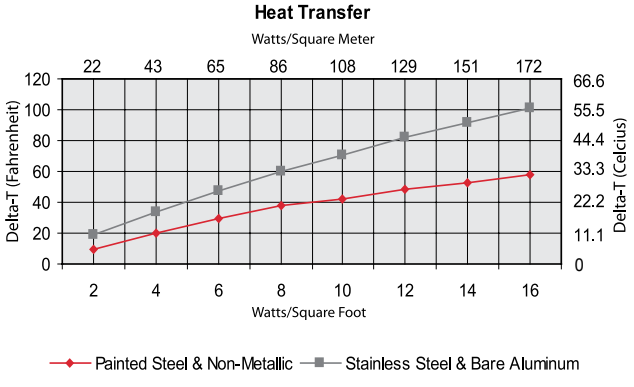
This method is reasonably accurate for most indoor industrial systems where there is no unusual air movement and insulation is not typically used inside the enclosure. The process also provides a ballpark result for outside plant and telecommunications applications, taking into account solar heat gain. However, it does not incorporate the impact of wind or cabinet insulation. If either is present, then the equation method is more precise.

Step A. Determine ΔT in °F or °C.
Step B. Find the heat transfer per ft.^{2} or m^2 on the chart below, using ΔT and the proper cabinet material curve.
Step C. Multiply the heat transfer per ft.^{2} or m^2 by the total surface area of the enclosure that will conduct heat. (Remember to exclude surfaces such as a side mounted to a wall.)

SURFACE AREA (ft.^{2}) = [2AB (in.) + 2BC (in.) + 2AC (in.)] ÷ 144

SURFACE AREA (m^2) =
[2AB (mm) + 2BC (mm) + 2AC (mm)] ÷ 1000000

Total Heat Transfer Load =
Heat Transfer per ft.^{2} or m^2 x Cabinet Surface Area

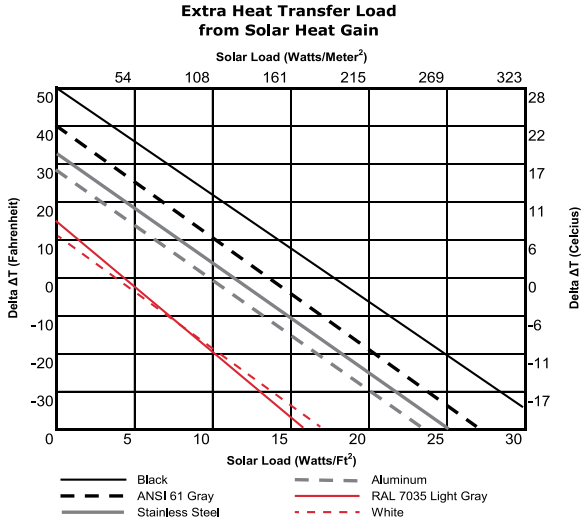


For example:
A painted steel cabinet has 80 ft.^{2} of surface area and will be located in a maximum ambient temperature of 95 F. The rated temperature of the electrical equipment is 75 F.

ΔT = 95 - 75 = 20 F
Heat Transfer = 4 W/ft.^{2} (from chart)

Total Heat Transfer Load = 80 x 4 = 320 W

The estimate for heat transfer load ends here, unless the electrical system will be deployed outdoors. Then solar heat gain needs to be added to the total heat transfer load calculated above. Solar heat gain is determined much the same way as heat transfer per ft.^{2} or m^2, using a similar chart.



For example: The painted cabinet above is in ANSI 61 gray. Thus, 7 W/ft.^{2} need to be added to the heat transfer load which is 560 W (7 x 80 ft.^{2}). Total Heat Transfer Load consequently becomes 720 W.

The result does not include insulation which can significantly reduce heat transfer load.

EQUATION METHOD

Heat transfer load may also be determined by equation. This method should be used when at least one of the following criteria are found in the electrical system:

- Moderate to high airflow within the cabinet
- Outdoor applications that involve breezes or gusty winds
- Insulation used within the cabinet to offset the impact of solar heat gain

The governing equations for heat transfer load are:

English System (°F, inches and feet):
$q = (T_o - T_i) \div [(1/h_o) + (1/h_i) + R]$

Metric System (°C, millimeters and meters):
$(q = (T_o - T_i) \div [(1/h_o) + (1/h_i) + R] \times 5.67$

Definition of Variables—
q = Heat transfer load per unit of surface area
T_o = Maximum ambient temperature outside the enclosure
T_i = Maximum rated temperature of the electrical components
h_o = Convective heat transfer coefficient outside the cabinet
Still air: h = 1.6
Relatively calm day: h = 2.5
Windy day (approx. 15 mph): h = 6.0

h_i = Convective heat transfer coefficient inside the cabinet
Still air: h = 1.6
Moderate air movement: h = 2.0
Blower (approx. 8 $ft.^3$/sec.): h = 3.0

R = Value of insulation lining the interior of the enclosure walls
No insulation: R = 0.0
1/2 in. or 12 mm: R = 2.0
1 in. or 25 mm: R = 4.0
1-1/2 in. or 38 mm: R = 6.0
2 in. or 51 mm: R = 8.0

$q = (125 - 75) \div [(1/6) + (1/2) + 4]$
$q = (50) \div (.16 + .5 + 4)$
$q = 50 \div 4.66$
$q = 10.7$ BTU/hr./$ft.^2$

Total Heat Transfer Load
$10.7 \times 72 = 770$ BTU/hr. or $770 \div 3.413 = 226$ W

Since the cabinet is outdoors, and assuming it is painted ANSI 61 gray and located in the sun, extra solar load needs to be added to the outcome above which is 504 Watts (7 W per $ft.^2$ x 72 $ft.^2$).

Total Heat Transfer Load with Extra from Solar Heat Gain
226 + 504 = 730 W

DETERMINE TOTAL HEAT LOAD

Total heat load to be removed from the electrical enclosure by the air conditioner is the sum of **internal heat load** plus **heat transfer load**.

TOTAL HEAT LOAD (C) = INTERNAL HEAT LOAD (A) + HEAT TRANSFER LOAD (B)

Thus, one adds together the result from Part A to the outcome from Part B.

For example:

The internal heat load from one of the examples above was 3795 Watts. The heat transfer load from the other example above was 730 W. Therefore, total heat load is 3795 + 730 = 4525 W.

To convert Watts into BTU/hr. to determine air conditioner capacity in the English system, multiply by 3.413.
4525 W is then 15444 BTU/hr.

Power input, protection level and dimensions of the air conditioner also need to fit system requirements.

Caution! Do not simply match the nominal cooling capacity of the air conditioner model with the total heat load result above. Be sure to know the maximum ambient temperature outside the enclosure as well as the rated temperature of the electrical components. Apply these temperatures to the performance curves provided by the cooling manufacturer to select an appropriately sized air conditioner. Failure to do so may under-size your air conditioner as much as 20% - 25%, thereby under-cooling the electrical components and making the application vulnerable to potential over-heating issues.

HEAT EXCHANGER COOLING CAPACITY OVERVIEW

Cooling with an air-to-air heat exchanger assumes the electrical components in your system are able to operate **above** the ambient temperature outside the enclosure. If this is not the case, then an air conditioner must be used.

Selecting a heat exchanger is similar to specifying an air conditioner in that the cooling capacity of the unit must remove the **internal heat load** from the electrical enclosure.

However, since the conductive cooling nature of the cabinet itself removes some of the heat from the system, **heat transfer** should be subtracted from internal heat load (versus added in the case of air conditioners).

Because the cooling capacity of heat exchangers is expressed in terms of Watts/°F or Watts/°C, an extra step is necessary to convert net heat load into a result used to select the appropriate heat exchanger. Divide the net heat load by the **ΔT** which is the difference between the maximum ambient temperature outside the enclosure and the maximum temperature rating of the electrical components.

HEAT EXCHANGER CAPACITY (C) = [INTERNAL HEAT LOAD (A) – HEAT TRANSFER (B)] / ΔT

DETERMINE INTERNAL HEAT LOAD

Internal heat load stems from the amount of waste heat generated inside the enclosure by the electrical components and is expressed in Watts.

To determine internal heat load, follow one of the four options outlined in the air conditioner "Determine Internal Heat Load" section on page 934.

DETERMINE HEAT TRANSFER

In air-to-air heat exchangers, heat transfer is actually cabinet heat loss because the heat inside the enclosure is conducting itself through the cabinet walls toward the cooler temperature outside the enclosure. That is why heat transfer is subtracted from internal heat load to arrive at total net heat load.

To determine heat transfer you need to know the **total surface area** of the cabinet, less any non-conductive surface area such as the enclosure side mounted to a wall. You must also determine **ΔT** which is the difference between maximum ambient temperature and the maximum temperature rating of the electrical components.

There are two methods to determine heat transfer—the **simple chart method** and the **equation method**. The simple chart method may be used for nearly all indoor heat exchanger applications. The equation method needs to be applied when air movement outside or inside the electrical enclosure is high, or for outdoor applications.

Here are the steps for the simple chart method:

Step A. Determine ΔT in °F or °C.
Step B. Find the heat transfer per $ft.^2$ or m^2 from the Heat Transfer graph on page 935, using ΔT and the proper cabinet material curve.
Step C. Multiply the heat transfer per $ft.^2$ or m^2 by the total surface area of the enclosure that will conduct heat. (Remember to exclude surfaces such as a side mounted to a wall.)

SURFACE AREA ($ft.^2$) = [2AB (in.) + 2BC (in.) + 2AC (in.)] ÷ 144

SURFACE AREA (m^2) = [2AB (mm) + 2BC (mm) + 2AC (mm)] ÷ 1,000,000

Heat Transfer (Cabinet Heat Loss) = Heat Transfer per $ft.^2$ or m^2 x Enclosure Surface Area

The estimate for heat transfer ends here, unless the electrical system will be deployed outdoors, or airflow inside or outside the enclosure is high. Then the equation method needs to be used to determine heat transfer (cabinet heat loss).

For the equation method, follow the steps on page 935 in the air conditioner selection section. The result will be a negative number; the negative sign should be ignored when deducting heat transfer from internal heat load.

Caution! If the result of the equation method is a positive number, then this means that you want the electrical temperature inside the cabinet to be lower than the temperature outside the enclosure. In this case, an air conditioner should be specified for the electrical system.

DETERMINE HEAT EXCHANGER CAPACITY

Air-to-air heat exchanger capacities are not provided in terms of Watts or BTUs/hr. of cooling like air conditioners. Instead, they are expressed in terms of Watts/°F or Watts/°C. Thus, the final step in determining heat exchanger capacity is to divide the total net heat load by ΔT. Then select the heat exchanger with the same or higher Watts/°F or Watts/°C as the outcome of this process.

—Indoor Industrial Example—

An electrical system uses two components that draw 230 VAC at 7.5 A. Each has a rated efficiency of 90%. They are protected in a painted steel cabinet that is 60 in. (1524 mm) tall, 36 in. (914 mm) wide and 18 in. (457 mm) deep. The system will be located in a maximum ambient temperature of 80 F (27 C). The rated temperature of the electrical is 95 F (35 C).

HEAT EXCHANGER CAPACITY (C) =
[INTERNAL HEAT LOAD (A) – HEAT TRANSFER (B)] ÷ ΔT

Internal heat load (A) may be determined using the "Component Power – Component Efficiency" method on page 934, given the available information. In this example, the estimated heat load is:

Device Power = 230 x 7.5 = 1725 W
Total Power = 2 x 1725 = 3450
Less Efficiency = 3450 x (1 - .90)
Internal Heat Load = 345 W

Heat transfer (B) is derived using the simple chart method, since this is an indoor industrial application. Both cabinet surface area and ΔT are needed to determine heat transfer. Cabinet surface area is 54 $ft.^2$ or 5.02 m^2 (from surface area formula on page 935). ΔT is 15 F (8 C)—the difference between ambient temperature and the rated temperature of the electrical equipment.

Heat Transfer (Cabinet Heat Loss) =
Heat Transfer per $ft.^2$ or m^2 x Enclosure Surface Area

Using the painted steel curve on the Heat Transfer chart on page 935, heat transfer per $ft.^2$ or m^2 is 3 W/$ft.^2$ or 32.5 W/m^2.
Heat Transfer = 3 W/$ft.^2$ x 54 $ft.^2$ = 162 W

Now that we know internal heat load, heat transfer and ΔT, we can determine heat exchanger capacity as follows:

HEAT EXCHANGER CAPACITY (C) =
[345 WATTS (A) – 162 WATTS (B)] ÷ 15 F (or 8 C)

HEAT EXCHANGER CAPACITY (C) = 12 W/°F or 22 W/°C

The result is **minimum** heat exchanger capacity. If no heat exchanger model is similar to the result, choose the next largest size to ensure adequate electrical cooling.

Power input, protection level and dimensions of the heat exchanger also need to fit the system.

—Outdoor Example—

A telecom system draws a total of 5,000 W; its efficiency is 85%. It is protected in a steel cabinet that is 72 $ft.^2$ (6.69 m^2) and painted with RAL 7035 light-gray paint. The enclosure walls are lined inside with 1 in. (25 mm) of insulation. The application will be deployed in a maximum ambient outdoor temperature of 104 F (40 C) with occasional winds reaching 15+ mph. The rated temperature of the electrical equipment is 114 F (46 C). Air circulation inside the cabinet is moderate.

HEAT EXCHANGER CAPACITY (C) =
[INTERNAL HEAT LOAD (A) – HEAT TRANSFER (B)] ÷ DELTA ΔT

Internal heat load (A) is determined using the "Component Power – Component Efficiency" method on page 934. In this example, the estimated heat load is as follows:

Total System Power = 5000 W
Less Efficiency = 5000 x (1 - .85)
Internal Heat Load = 750 W

Heat transfer (B) is derived using the equation method, since this is an outdoor application. For brevity, we will assume the English system (°F, inches and feet).

$q = (T_o - T_i) \div [(1/h_o) + (1/h_i) + R]$

"q" is heat transfer per surface area. For an explanation of the other variables, see "Equation Method" on page 936.

q = (104 - 114) ÷ [(1/6) + (1/2) + 4]

q = -2.14 W/$ft.^2$

Total Heat Transfer = 2.14 x 72 $ft.^2$ = 154 W
(negative sign is ignored)

ΔT is 10 F — the difference between ambient temperature and the rated temperature of the electrical equipment.

HEAT EXCHANGER CAPACITY (C) =
[750 W (A) – 154 W (B)] ÷ 10 F

HEAT EXCHANGER CAPACITY (C) = 60 W/°F

As in the indoor industrial example, the above result is **minimum** heat exchanger capacity. If no heat exchanger model is similar to the result, choose the next largest size to ensure adequate electrical cooling.

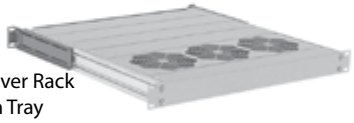
Power input, protection level and dimensions of the heat exchanger also need to fit the system.

INTRODUCTION

There are many standard air movers for electrical cooling on the market today. Common options include:

Compact Axial Fans

Filter Fan



Server Rack Fan Tray

Motorized Impeller

Centrifugal Blower

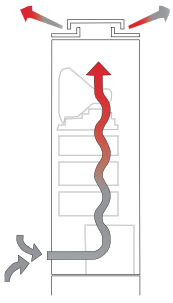
As one may conclude by looking at the products, each fresh air cooling solution can vary in terms of:

- General vs. concentrated airflow
- Amount of air volume (CFM or M^3/Hr.)
- Ability to overcome airflow restriction caused by electrical components (static pressure—Inches of H_2O or Pascals)
- Component price
- Power input (AC or DC volt)
- Ability to protect the electrical equipment from dust and water

However, before we begin to briefly review the advantages and disadvantages of each air mover, we first need to understand two important concepts, airflow and static pressure, because each fresh air cooling solution can be quite different with these factors.

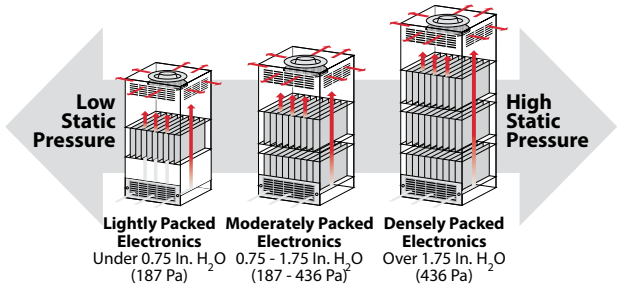
WHAT IS AIRFLOW?

Airflow is the volume of air that a fan, impeller or blower can move. In the English system, airflow is measured in cubic feet per minute or CFM. In the Metric system, airflow is defined as cubic meters per hour or M^3/Hr. Electrical systems with low heat loads (100 to 1000 Watts) require less airflow to cool the components. Cabinets with moderate to high heat loads (more than 1000 Watts) need more airflow.



WHAT IS STATIC PRESSURE?

Static pressure is air restriction created by the components inside the enclosure. In the English system, static pressure is expressed in Inches of Water or In. H_2O. In the Metric system, static pressure is Pascals or Pa. Systems with loosely packed components have low static pressure (0.24 to 0.50 In. H_2O) and use a smaller, less powerful air mover such as a tube axial fan or filter fan for cooling. However, cabinets that are moderately to densely packed with electrical equipment (0.75 In. H_2O or more) require a larger, more powerful air mover or multiple air movers.

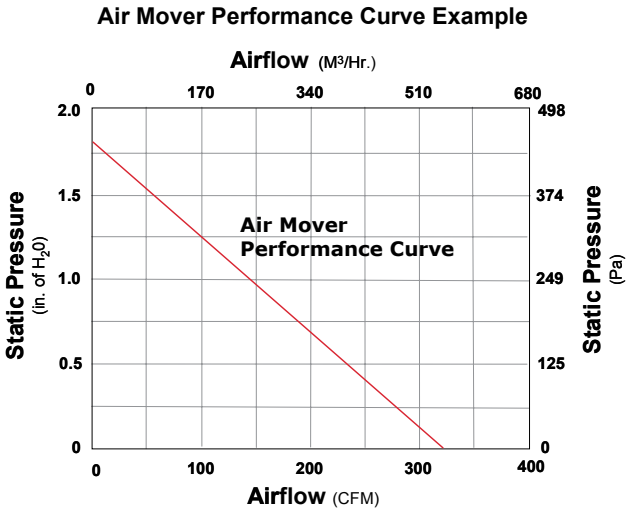


HOW IS PERFORMANCE CHARACTERIZED?

Each air mover is commonly rated based on its airflow and static pressure capability known as a "performance curve."

In a 0 static pressure electrical system, the air mover provides 325 CFM of airflow. Conversely, at 1.6 In. of H_2O static pressure (a moderately packed cabinet), the air mover provides 0 airflow.

Air mover manufacturers determine the performance curve for each of their products by placing the unit in a test chamber to determine its precise airflow and static pressure.



WHAT ARE THE CAPABILITIES OF EACH AIR MOVER?

Each air mover such as a tube axial fan, filter fan, fan tray, motorized impeller and centrifugal blower performs in a different way. A summary of the characteristics and applications for each of these popular fresh air cooling products is outlined in the table below.

Axial fans, filter fans and fan trays generally provide low to moderate airflow in electrical systems with low static pressure. Most are used with VAC applications. Filter fans provide an extra level of enclosure protection against dust infiltration (Type 12 or IP54) and water infiltration (Type 3R or IP55). With the exception of fan trays, tube axial fans and filter fans are relatively inexpensive.

Motorized impellers offer moderate to high airflow and work well in electrical cabinets with moderate to high static pressure. They often provide general cooling throughout an enclosure. Motorized impellers are available in VAC and VDC inputs and are reasonably priced

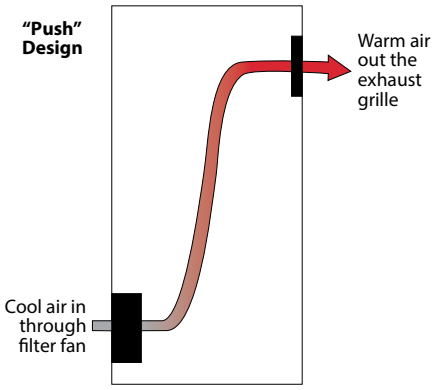
Centrifugal blowers deliver moderate to high airflow and overcome the system impedance that builds up in electrical cabinets with moderate to high static pressure. They're primarily available for VAC power input and are relatively higher priced.

Characteristics of Popular Air Movers

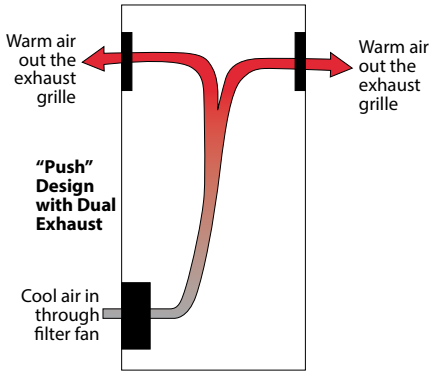
Characteristics	Axial Fans	Filter Fans	Fan Trays	Motorized Impellers	Centrifugal Blowers
Airflow	Low	Low - Moderate	Low - Moderate	Moderate - High	Moderate - High
Static Pressure	Low	Low	Low	Moderate - High	Moderate - High
Voltage Input	AC (some DC)	AC and DC	AC (some DC)	AC and DC	AC
Protection	None	Type 12 & 3R	None	None	None
Per Piece Price	Low	Moderate	High	Moderate	High
Typical Application	Spot electrical cooling	Industrial electrical cabinet cooling	Datacom card and server rack cooling	General cooling of moderate to high static pressure cabinets	Concentrated or general cooling of high static pressure systems

AIRFLOW DESIGN OPTIONS

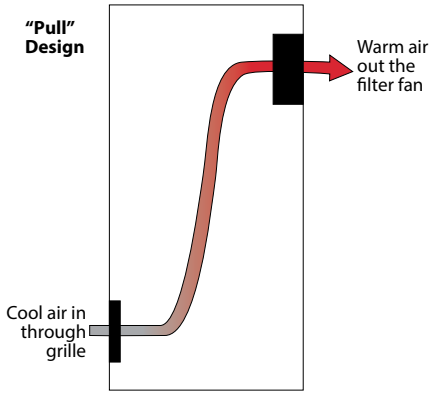
A typical air mover system design "pushes" cool air into the bottom of the electrical cabinet and exhausts the warm air out the top



To reduce exhaust grille static pressure and improve cool airflow, some engineers use two exhaust grilles in their airflow design.

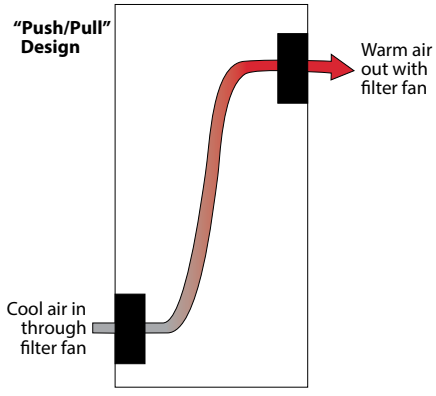


Another option is to use a reverse airflow fan and mount it high in the enclosure to "pull" cool air through the enclosure.

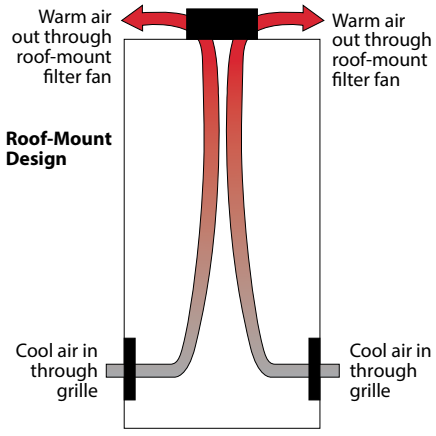


The "pull" approach is less desirable because it de-pressurizes the enclosure. If poor seals are in the cabinet at a door or modular panel, for example, damaging dust could be sucked inside and onto the electrical components. However, space constraints at the bottom of the enclosure may force the engineer to design a "pull" system.

For electrical systems with higher static pressure, filter fans are sometimes used in a "push/pull" approach. The reason is that two filter fans designed in "series" overcome twice the static pressure compared to one filter fan working alone with an exhaust grille.



Roof-mount air movers are also available. Engineers occasionally employ them due to space constraints lower in the enclosure or for other reasons. Two exhaust grilles are recommended to ensure adequate airflow through the enclosure.



Roof-mount air mover designs also pose the risk of pulling dust into the enclosure through poor seals.

CHOOSING AN AIR MOVER

Three overall considerations are applied when selecting a filter fan: voltage input, enclosure protection and airflow requirement.

POWER INPUT

Narrowing the choice of filter fans based on voltage input is quite simple. If the voltage available in the electrical system to power the filter fan is AC, then an VAC filter fan is chosen. If the voltage for the application is DC, then a VDC filter fan is specified.

The voltage level of the filter fan's power input also needs to be taken into consideration. For example, if the voltage input is 115 VAC, then a 115 VAC filter fan should be specified. If the voltage input is 24 VDC, then a 24 VDC impeller is required. Filter fans are commonly available in 115, 230 and 460 3-phase 50/60 Hz VAC as well as 24 VDC. Some manufacturers such as Hoffman offer 48 VDC due to the trend toward using this power input in some electrical systems.

ENCLOSURE PROTECTION

Another important consideration is selecting an air mover that maintains the protection level of the electrical enclosure.

U.S. standards of protection generally include:

Type 1 – For indoor use to protect against contact with the enclosed equipment
Type 12 - For indoor use to protect against dust, falling dirt and dripping non-corrosive liquid such as water
Type 3R – For outdoor use to protect against rain and sleet
Type 4 – For outdoor or indoor use to protect against windblown dust and rain, splashing water and hose-directed water
Type 4X – For outdoor or indoor use to protect against corrosion, windblown dust and rain, splashing water and hose-directed water

European standards of protection include:

IP54 – Dust must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact; water splashing against the enclosure from any direction shall have no harmful effect.
IP55 – Dust must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact; and water projected by a nozzle against enclosure from any direction shall have no harmful effects.
IP65 – No ingress of dust; complete protection against contact; and water projected by a nozzle against enclosure from any direction shall have no harmful effects.

AIRFLOW

Choosing a filter fan with the right airflow or cooling capacity is as important as voltage input and enclosure protection. However, the process is a little more involved.

Generally, smaller heat loads in the electrical system will require a filter fan with a lower airflow rate (CFM or M^3/Hr.). Moderate to high heat loads will need a larger, more powerful filter fan or multiple filter fans to move enough air to cool the electrical components.

The following 5-step process results in a filter fan specification that should generally work in your electrical system.

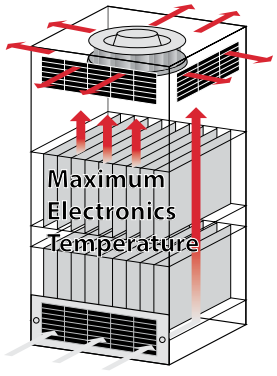
1. Determine Delta-T
2. Determine Internal Heat Load
3. Determine Free Airflow
4. Estimate System Impedance
5. Select Your Filter Fan

These five steps yield a ballpark result. A filter fan sample should always be tested in the actual electrical system itself to confirm that its performance provides adequate airflow.

The next section outlines the 5-step filter fan selection process in more detail.

STEP 1. DETERMINE DELTA-T (ΔT)

Delta-T is the difference between **maximum desired temperature for the electrical equipment** and **maximum temperature outside the enclosure**. It is important to determine ΔT because cooler air will usually require less filter fan airflow whereas warmer air will typically require more airflow.



Maximum desired temperature for the electrical equipment is identified by reviewing the component manufacturer's specifications. They will often indicate that the equipment should not operate above a certain temperature such as 35 C (95 F).

Maximum temperature **outside the enclosure** is determined by forecasting the highest potential temperature of the air around the electrical cabinet. If the application is in an indoor environment such as an air conditioned factory, the maximum temperature outside the enclosure is the temperature of the facility, such as 25 C (77 F). If the electrical system is outdoors, the maximum temperature around the cabinet is the hottest weather that the application experiences, which may be 45 C (116 F) if it's deployed on a roof top for example.

ΔT =
maximum temperature desired for the electrical equipment - maximum expected ambient temperature

For example:

ΔT =
35 C (95 F) [maximum electrical equipment temperature] -
25 C [maximum ambient temperature]
ΔT = 10 C (18 F)

STEP 2. DETERMINE INTERNAL HEAT LOAD

Heat load stems from the amount of waste heat generated inside the enclosure by the electrical components and is expressed in Watts. There are several methods to determine internal heat load, depending on data availability.

A. Heat Load Data from Each Electrical Component Manufacturer
One way to estimate internal load is to gather heat load data from the manufacturers of the electrical components inside the cabinet. If more than one control or other components are inside the enclosure, it will be necessary to add together the multiple estimates of heat load to determine total internal heat load.

B. Component Power – Component Efficiency
A second method is to establish the Watts of power used by each electrical component. Derive Watts by multiplying the amp draw of each device with its voltage. Then subtract the efficiency of each component from its estimated power use, adding up the outcomes for total internal heat load.

INTERNAL HEAT LOAD = COMPONENT POWER (Watts) - COMPONENT EFFICIENCY (for each electrical device)
For example:
An electrical system uses two components that draw 115 VAC at 9.5 amps. Each has a rated efficiency of 90 percent (10 percent of each device is inefficient). Unused amounts of power become generated heat. Thus, the estimated internal heat load is:

Device Power = 115 x 9.5 = 1100 Watts
Total Power = 2 x 1100 = 2200
Less Efficiency = 2200 x (1 - .90)
Total Heat Load = 220 Watts

C. Incoming – Outgoing Power
A third approach is to estimate the power going into the enclosure and the power coming out of it. The difference is the estimated amount of internal heat load. Multiply the amps and volts of each electrical line going in to determine Watts and then add them together. Do the same for the electrical line(s) coming out of the application. The outgoing watts are subsequently subtracted from the incoming watts.

INTERNAL HEAT LOAD = INCOMING POWER (Watts) – OUTGOING POWER (Watts)
For example:
An enclosure has three input lines of 230 VAC at 11, 6 and 4 amps. It has one output control line of 115 VAC at 9 amps.
Incoming Power = (230 x 11) + (230 x 6) + (230 x 4) = 4830 Watts
Outgoing Power = (115 x 9) = 1035 Watts
Total Heat Load = 4830 – 1035 = 3795 Watts

D. Automated Equipment Horsepower
The fourth method applies only to industrial automation equipment that operates with horsepower such as variable frequency drives (VFDs). 1 horsepower = 745.6 Watts. Thus, the internal heat load from a 3 horsepower VFD is 2237 Watts, less its efficiency which is typically 93 – 95 percent.
For example:
A cabinet has three 5 Hp VFDs with 95% efficiency.
VFD Watts = 5 Hp x 745.6 x 3 = 11184
Adjusted Watts = 11184 x (1 - .95) = 559
Total Heat Load = 559 x 1.25 = 699 Watts

Note: 1.25 is an assumed "safety" margin for other minor heat-producing components.

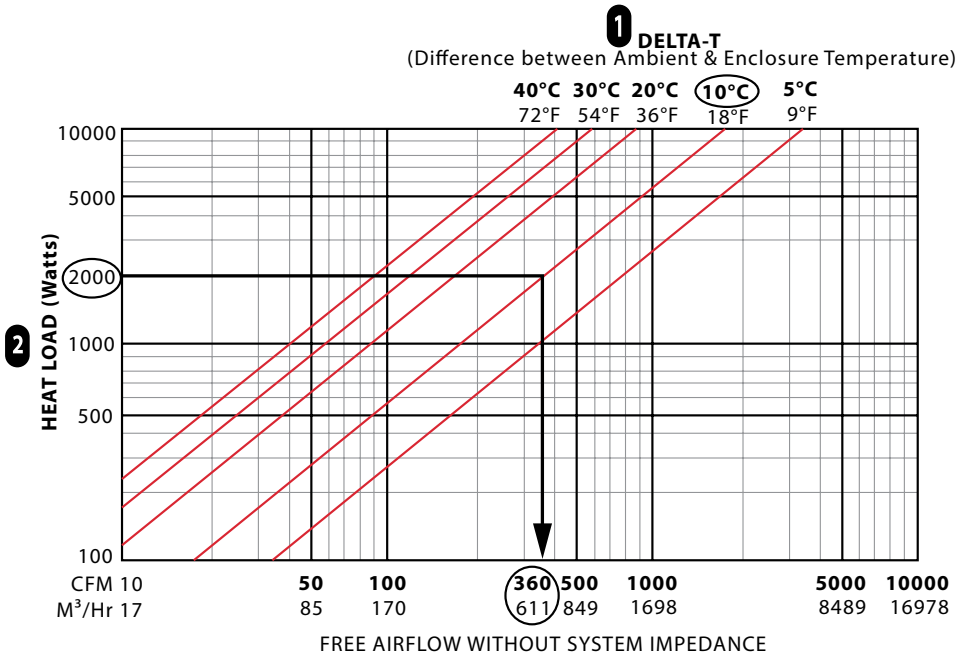
STEP 3. DETERMINE FREE AIRFLOW

Determining free airflow applies the results from steps 1 and 2 to the chart below. Recall that free airflow is the unimpeded airflow through the enclosure without any interference from electrical components or filter fan exhaust grilles.

Select the diagonal ΔT line that closely matches the ΔT of your electrical system. Using the example from step 1, ΔT is 10 C (18 F).

Then find your cabinet's heat load along the Y-axis of the chart. In the example from step 2, heat load is 2000 Watts.

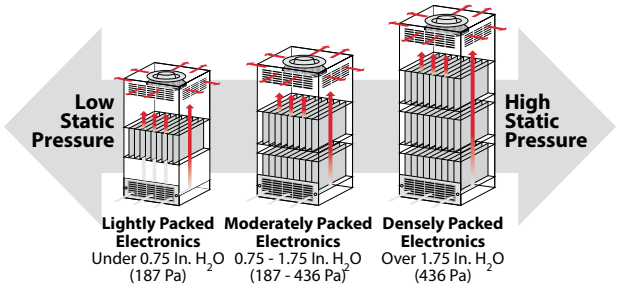
Find where heat load intersects with ΔT to determine free airflow on the X-axis. Continuing the example, free airflow in this case is 360 CFM or 611 M^3/Hr.



Now we need to account for system impedance, i.e., the amount of airflow interference created by the electrical components inside the cabinet. A filter fan with **more than** 360 CFM or 611 M^3/Hr. of free airflow will actually be needed for this system's design.

STEP 4. ESTIMATE SYSTEM IMPEDANCE

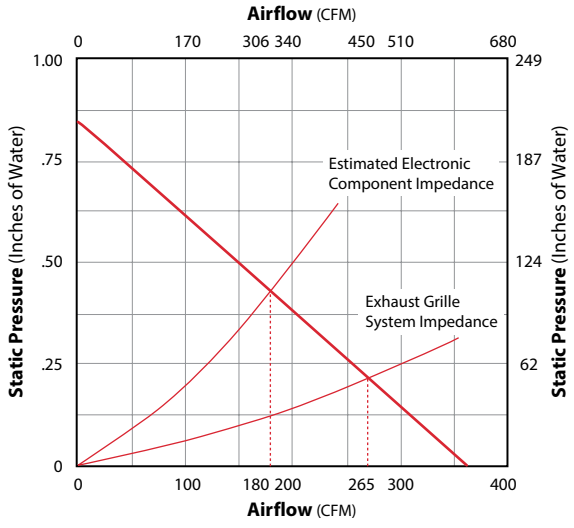
Static pressure or system impedance can impact the cooling performance of an air mover. Filter fans work well in electrical cabinets with low static pressure such as a large enclosure with a bare drive and few other components. They do not have enough force to push air through a cabinet with a moderate or high system impedance.



If your system design appears like the middle or right hand example, then a motorized impeller or blower is probably a better solution for the application than a filter fan.

Assuming a filter fan can cool your application, the exhaust grille and electrical components inside the enclosure will reduce airflow through the system. Filter fan manufacturers will show the effect of the exhaust grille on the performance curve. However, they do not indicate the impedance curve of the electrical system because filter fan makers do not know this information. Only the specifying electrical engineer or system designer can determine this. If it is not possible to measure the exact static pressure inside an electrical cabinet, you must make an estimate and draw an approximation.

Impact of System Impedance on Free Airflow of a 376 CFM (638 M³/Hr.) Filter Fan



In the example shown, the free airflow of a 376 CFM (638 M^3/Hr.) air mover decreases to 265 CFM with the exhaust grille kit and down to 180 CFM when used in an actual application. Thus, a model with a performance curve similar to the one in the next graph would be too small to keep our electrical system cool because our actual target airflow is 360 CFM.

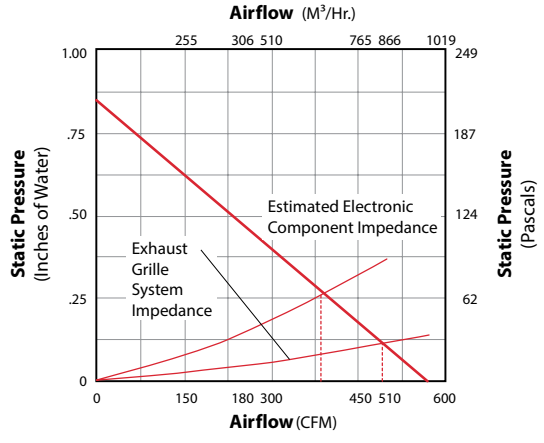
STEP 5. SELECT YOUR AIR MOVER

In this final step, we bring together the results of free airflow (step 3) and system impedance (step 4), using the air mover performance charts. Applying the example, we need to select a motorized impeller that delivers a minimum of 360 CFM (611 M^3/Hr.).

Identify alternative air mover models with free airflow ratings that are greater than the step 3 outcome of 360 CFM (611 M^3/Hr.) to compensate for airflow losses created by static pressure in the system. A judgmental system impedance curve is overlaid onto the performance charts of each of the optional models, and then the model with the CFM or M^3/Hr. closest to the target airflow is selected.

In the performance curve shown here, 571 CFM is commonly the largest filter fan in the electrical cooling industry. Based on the estimated electrical component impedance overlaid by our imaginary engineer, it should deliver the cooling performance required by the system.

Performance Curve of a 571 CFM (969 M³/Hr.) Filter Fan with Exhaust Grille and System Impedance



FRIENDLY REMINDER

This 5-step process for selecting an air mover yields a ballpark result. Be sure to test a sample of the air mover in the electrical system prototype at maximum ambient and heat load conditions to verify adequate cool airflow.

STANDARDS ORGANIZATION SUMMARY AND DIRECTORY OVERVIEW

What's in a Rating?

As a way of standardizing enclosure performance, organizations like NEMA, UL, CSA, IEC and VDE use rating systems to identify an enclosure's ability to resist external environmental influences. Resistance to everything from dripping liquid to hose-down to total submersion is defined by the ratings systems. While these ratings are all intended to provide information to help you make a safer, more-informed product choice, there are differences among them.

North American Standards Organizations

In North America, NEMA, UL and CSA are the commonly recognized standards organizations. Their ratings are based on similar application descriptions and expected performance. UL and CSA both require enclosure testing by qualified evaluators in their certified labs. They also send site inspectors to make sure a manufacturer adheres to prescribed manufacturing methods and material specifications. NEMA, on the other hand, does not require independent testing and leaves compliance completely up to the manufacturer.

North American enclosure rating systems also include a rating that indicates corrosion resistance. This rating is based on the enclosure's ability to withstand prolonged exposure to salt water spray.

While the corrosion resistance rating is a good indicator that an enclosure can resist corrosion, it does not provide information on how a specific corrosive agent will affect a given enclosure material. It is best to conduct a full analysis of the specific application and environment to determine the best enclosure choice.

International Standards Organizations

Like NEMA, IEC does not require independent testing and leaves compliance completely up to the manufacturer. Nevertheless, there are differences in how enclosure performance is interpreted. For example, UL and CSA test requirements specify that an enclosure fails the water-tight test if even a single drop of water enters the enclosure. In the IEC standards for each level of ingress protection (IP), a certain amount of water is allowed to enter the enclosure.

IEC 60529 IP ratings do not specify construction requirements or degrees of protection against corrosive atmospheres, risk of explosion or conditions such as moisture or corrosive vapors. NEMA Type ratings, on the other hand, do specify construction and performance requirements for most environmental conditions. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC enclosure classification designations cannot be exactly equated with NEMA enclosure Type numbers.

CE

For industrial control equipment, the CE Mark is not intended to be applied to empty enclosures because such enclosures are inactive components of a final assembly. The responsibility of ensuring compliance with all applicable EU directives and harmonized standards belongs with the final equipment manufacturer.

EAC

EAC Standard has been approved in Russian Federation and CIS countries and is quite similar to the EN/CE standards. The EAC collection of standards covers general and technical specifications as well as safety requirements.

At the time of this printing, the following countries use EAC Standard with some individual additions: Russia, Belarus, Ukraine, Moldova, Kazakhstan, Azerbaijan, Armenia, Kyrgyzstan, Uzbekistan, Tajikistan, Georgia, Turkmenistan

EAC certification is required in order to gain customs clearance for products at the Russian borders. The EAC certificate indicates compliance with the Russian standards. EAC is valid only for Russian Federation and may not be accepted in CIS countries. There are similar, but independent regulations in each CIS country.

PROTECTION LEVELS

NEMA, UL and CSA Ratings **Enclosure Type Descriptions for Non-Hazardous Locations**

	Type	NEMA	UL	CSA
Indoor	Type 1	Enclosures are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment or locations where unusual service conditions do not exist.	Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt.	General purpose enclosure. Protects against accidental contact with live parts.
Indoor	Type 12	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping noncorrosive liquids.	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water and external condensation of noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of non-corrosive liquids; not provided with knockouts.
Indoor	Type 12K	Enclosures with knockouts are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping noncorrosive liquids.	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water and external condensation of noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of noncorrosive liquids; not provided with knockouts.
Indoor	Type 13	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.	Indoor use to provide a degree of protection against lint, dust seepage, external condensation and spraying of water, oil and noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; seepage and spraying of non-corrosive liquids, including oils and coolants.
Outdoor	Type 3	Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain and sleet; undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against windblown dust and windblown rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain, snow and windblown dust; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 3R	Enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain and sleet; undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against falling rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain and snow; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 3RX	Enclosures are intended for outdoor use primarily to provide a degree of protection against corrosion, falling rain and sleet; undamaged by the formation of ice on the enclosure.	Not specifically defined.	Not specifically defined.
Outdoor	Type 4	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water and hose directed water; undamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain, snow, windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 4X	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.	Indoor or outdoor use; provides a degree of protection against rain, snow, windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure; resists corrosion.
Outdoor	Type 6	Enclosures are intended for use indoors or outdoors where occasional submersion is encountered; limited depth; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against the entry of water during temporary submersion at a limited depth. Undamaged by the external formation of ice on the enclosure; resists corrosion.

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- Underwriters Laboratories Inc. (UL) shall not be responsible for the use of or reliance upon a UL Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon a UL Standard.
- Some enclosures may have multiple ratings. For instance: 4, 12—Outdoor use; able to be used indoors with modifications; 4X, 3RX—Outdoor use; able to be used indoors with modifications; 4, 9—Can be used in both hazardous and non-hazardous locations

IP Rating Descriptions **Example Rating**

If 1st IP number is...	and the 2nd IP number is...	Then the IP rating is
2	3	IP23
(protection against solid objects)	(protection against liquids)	An enclosure with this designation provides protection against touch with a finger, penetration of solid objects greater than 12 mm and spraying water.

First Numeral (Solid Objects and Dust)

IP	Protection of Persons	Protection of Equipment
0	No Protection	No Protection
1	Protected against contact with large areas of the body (back of hand)	Protected against objects over 50 mm in diameter
2	Protected against contact with fingers	Protected against solid objects over 12 mm in diameter
3	Protected against tools and wires over 2.5 mm in diameter	Protected against solid objects over 2.5 mm in diameter
4	Protected against tools and wires over 1 mm in diameter	Protected against solid objects over 1 mm in diameter
5	Protected against tools and wires over 1 mm in diameter	Protected against dust (limited ingress, no harmful deposit)
6	Protected against tools and wires over 1 mm in diameter	Totally protected against dust

Second Numeral (Liquid)

IP	Protection of Equipment
0	No Protection
1	Protected against vertically falling drops of water, e.g. condensation
2	Protected against direct sprays of water up to 15 degrees from vertical
3	Protected against sprays up to 60 degrees from vertical
4	Protected against water sprayed from all directions (limited ingress permitted)
5	Protected against low-pressure jets of water from all directions (limited ingress permitted)
6	Protected against strong jets of water
7	Protected against the effects of immersion between 15 cm and 1 m
8	Protected against long periods of immersion under pressure
9	Protected against high pressure and temperature water jets

SCCR REQUIREMENTS PER UL (CONDENSED VERSION)

Article 409 of the 2008 National Electric Code (NFPA 70) requires industrial control panels to be marked with a short circuit current rating. As specified in the National Electric Code, UL508A-2001 Supplement SB, the Standard of Safety for Industrial Control Equipment, provides an accepted method for determining the short-circuit current rating of the control panel.

The SCCR rating for our air conditioners and heat exchangers has a default value of 5 kA.

You may use a 5 or 10 kVA isolation transformer between the customer's panel and our air conditioner and not have an effect on the customer's 65 kA rating.

You may use a fuse or circuit breaker with a 5 kA short circuit rating on the line side of the ACU and its branch circuit protective device and not have an effect on the customer's 65 kA rating.

The current limiting fuse or circuit breaker used on the line side of the branch circuit protection for the ACU must have a SCCR equal to or greater than that of the panel rating. Additionally, for a current limiting fuse, the customer would need to verify that the let-through current (Ip * 10^3) of the fuse is less than or equal to 5KA by referencing table SB4.2 of UL 508A. If a circuit breaker is used as feeder protection, it **must** be marked Current Limiting type from the manufacturer, and the panel builder would need to verify based on the manufacturers published curves that the let-through current is less than or equal to 5kA. Examples of these curves are included in UL 508A supplement SB.

You can run separate circuits for the panel and the air conditioner as long as each is labeled with their individual SCCR ratings. (5 kA and 65 kA)

If the customer does not implement one of the options above, then the resulting SCCR rating would be the 5 kA rating of the ACU, if that is the lowest rated component in the panel.

Testing represents another option; however, if the customer does not implement these options, then the resulting short circuit rating of the panel is based on the lowest short circuit current rating of all power circuit components installed in the panel.

REMOTE ACCESS CONTROL (RAC)

Application

Hoffman's Spectracool Remote Access Control (RAC) system is an integrated, parametric controller designed to work seamlessly with our enclosure air conditioner (A/C) units for the purpose of remotely monitoring and managing anywhere from a single A/C unit to an entire network of Spectracool air conditioners from virtually anywhere in the world with a secure internet connection.

Electrical Engineering Maintenance, IT System Managers and others can ensure that their systems are always running at optimal levels using the Spectracool Remote Access Control System to help increase productivity and improve overall system reliability. Whether you have a single A/C unit 1,000 miles away in a remote location, or have hundreds of units in a local factory, the Spectracool Remote Access Control System can reduce the number of people needed to monitor and control your enclosure cooling systems to a single individual.

Specification

- Supports most standard wire and wireless routers
- Works with most Hoffman Air Conditioners
- Input voltage range: 9.5V to 95V
- Operating voltage: 24V
- Operating temperature: -40 C to 65 C
- Storage temperature: -40 C to 85 C
- Supports up to 2 temperature sensors
  - Sensor temperature range: -50 C to 105 C
  - Sensor accuracy: ±0.2 C
  - Sensor input: Analog or NTC
- Supports up to 10 alarms
  - Door open alarm
  - High temperature alarm
  - Low temperature alarm
  - Air inlet temperature sensor failure alarm
  - Air outlet temperature sensor failure alarm
  - High pressure warning
  - Low pressure alarm
  - Frost alarm
  - Lost communication alarm (LC)
  - Lost communication alarm (LC1)
- Interfaces
  - USB port to interface with PC for system configurations
  - Ethernet port to interface with local network for remote access
  - RS485 Bus
  - Input voltage
- Supports multiple communication protocols
  - SNMP, Modbus TCP, Ethernet/IP, and Profinet protocol

Models with °C Controller Operating Parameters

Parameter	Description	Default Value (°C)	Range (°C)
r01	Cooling set-point	35	20 to 55
r02	Cooling differential	5	-
P08	Door Open and/or smoke detected	28	4 or 28

Models with °C Controller Alarm Parameters

Parameter	Description	Default Value (°C)	Range (°C)
P16	High temperature Alarm	55	-
P19	Low temperature Alarm	14	-

Models with °F Controller Operating Parameters

Parameter	Description	Default Value (°F)	Range (°F)
r01	Cooling set-point	80	72 to 120
r02	Cooling differential	7	-
P08	Door open and/or smoke detected	28	4 or 28
A04	Heating set-point*	50*	32 to 60
A05	Heating differential*	7*	-

Cooling turns on at r01 + r02, and off at r01
Heating turns on at A04, and off at A04 + A05
*Functional only on units with heater option

Models with °F Controller Alarm Parameters

Parameter	Description	Default Value (°F)	Range (°F)
P16	High temperature Alarm	125	-
P19	Low temperature Alarm	40	-

Alarm Condition Display

Parameter	Description	Cause	Result	Alarm Relay
TP	High temperature Alarm	Door open and/or smoke detected	Unit turns off for duration of alarm	Relay contacts close
LA	Low temperature Alarm	MALF high pressure switch opens	No effect on function	N/A
E1	Air inlet temperature Sensor Alarm	Sensor Failure	Unit turns off for duration of alarm	Relay contacts close
E2	Air Outlet temperature Sensor Alarm	Sensor Failure	Unit turns off for duration of alarm	Relay contacts close
Ht	High temperature Alarm	Cabinet over temperature	No effect on function	Relay contacts close
Lt	Low temperature Alarm	Cabinet under temperature	No effect on function	Relay contacts close
A1	Frost Alarm	Evaporator coil frozen	Compressor and evaporator fan off for duration of alarm	Relay contacts close

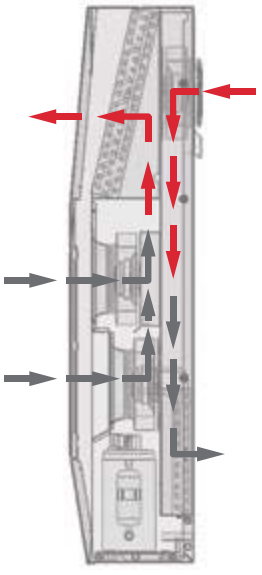
nVent | HOFFMAN

SPECTRACOOL INDOOR/OUTDOOR

G57
20000 BTU/Hr.
5861 Watt

G52
8000/12000 BTU/Hr.
2300/3500 Watt

G28
4000/6000 BTU/Hr.
1172/1758 Watt



INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453

CE
EAC
IP 56 Internal Loop
IP 34 on External Loop
Telcordia GR-487 capable (Outdoor)

APPLICATION

- Industrial automation
- Telecommunications equipment
- Waste water treatment systems
- Package handling equipment
- Security and defense systems
- And more

FEATURES

- Energy-efficient rotary compressor on most models
- R407c and R134a earth-friendly refrigerants
- 115, 230 and 400/460 VAC 3-phase power input on most models
- UL Listed to save customers time and money with agency approvals
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
- Exterior and partially recessed mounting options
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat on enclosure side of the unit; indoor air conditioner models include digital display on ambient side
- Dual condenser-side air movers for performance redundancy on G52 and G57 models
- Galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cut-out adapter options for enclosures with GENESIS and T-Series air conditioners, enable users to easily transition to the new unit
- Dust-resistant condenser coil allows the unit to be run filterless in most applications
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Active condensate management with heater strip
  - Power-off relay for door switch and other system requirements
  - Malfunction switch
- Standard Outdoor Air Conditioner models also include:
  - Telcordia GR-487 capable
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control
  - Up to 2000 Watt (G28, G52) and 3000 Watt (G57) enclosure heater

SPECIFICATIONS

- Nominal cooling capacity:
  G28 4000 & 6000 BTU/Hr. (1172 and 1758 W)
  G52 8000 & 12000 BTU/Hr. (2344 and 3516 W)
  G57 20000 BTU/Hr. (5861 W)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

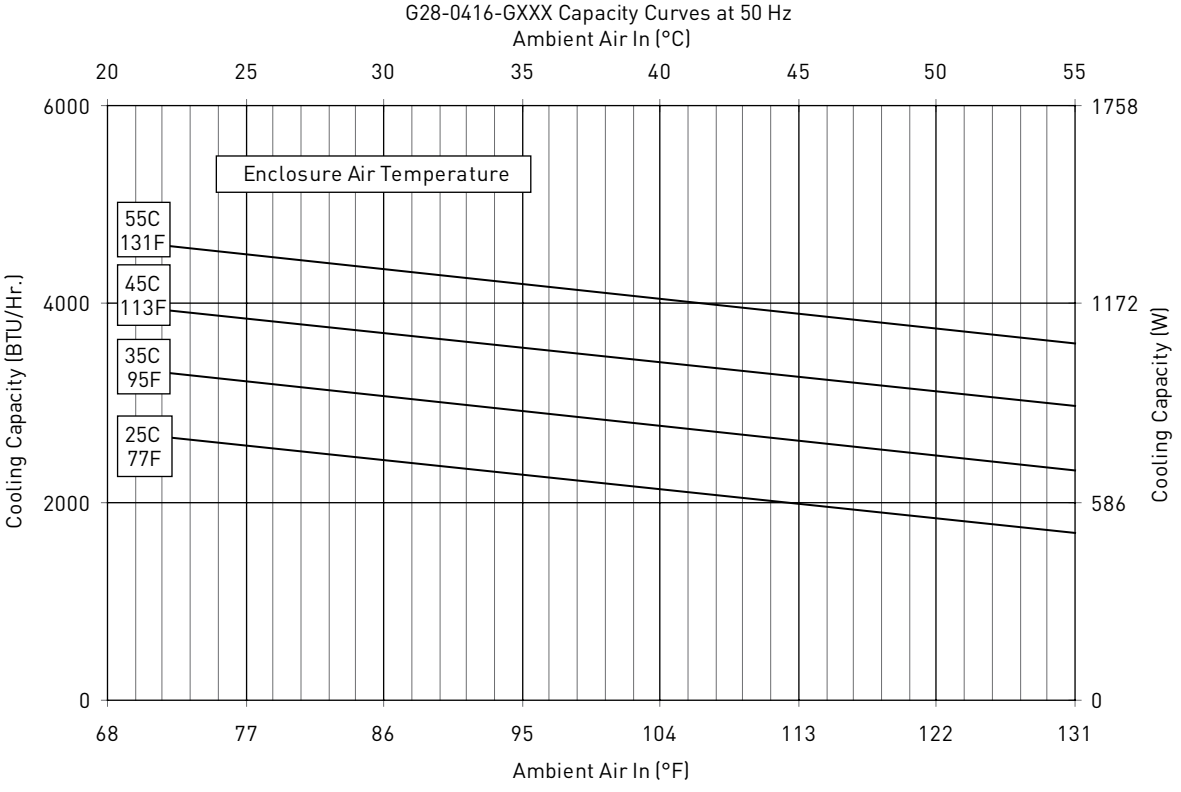
EtherNet/IP ODVA PI PROFIBUS • PROFINET

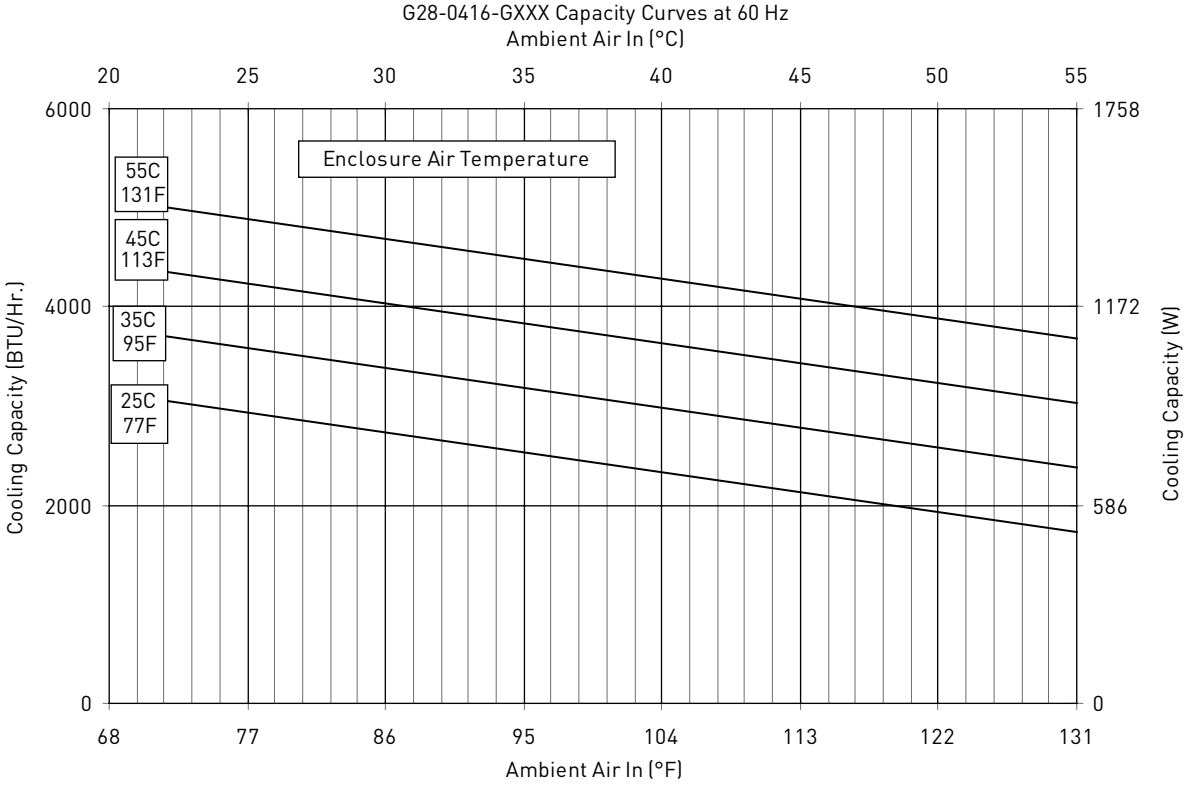
Performance Data **G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)**

CATALOG NUMBER						
Indoor Model	G280416G050	G280426G050	G280446G050	G280616G050	G280626G050	G280646G050
Indoor Model Stainless Steel Type 4X	G280416G051	G280426G051	G280446G051	G280616G051	G280626G051	G280646G051
Indoor Model with Remote Access Control*	G280416G060	G280426G060	G280446G060	G280616G060	G280626G060	G280646G060
Outdoor Model without Heat Pkg.	G280416G100	G280426G100	G280446G100	G280616G100	G280626G100	G280646G100
Outdoor Model Partial Recessed Mount	G280416G101	G280426G101	G280446G101	G280616G101	G280626G101	G280646G101
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	G280416G102	G280426G102	G280446G102	G280616G102	G280626G102	G280646G102
Outdoor Model with Heat Pkg.	G280416G150	G280426G150	—	G280616G150	G280626G150	—
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	G280416G151	G280426G151	—	G280616G151	G280626G151	—
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**4000**	**4600/4900**	**4600/4900**	**6000/6400**	**6000/6400**	**5400/6000**
Watts	**1172**	**1347/1435**	**1347/1435**	**1757/1874**	**1757/1874**	**1581/1757**
At 131 F/131 F (55 C/55 C):						
BTU/Hr. (50/60 Hz)	3700	4600/4900	4600/4900	6000/6400	6000/6400	5400/6000
W (50/60 Hz)	1084	1347/1435	1347/1435	1757/1874	1757/1874	1581/1757
At 95 F/95 F (35 C/35 C):						
BTU/Hr. (50/60 Hz)	3300/3410	4300/4600	4324/4655	5600/6000	5600/6000	5054/5685
W (50/60 Hz)	967/1000	1260/1364	1267/1364	1641/1758	1641/1758	1481/1666
Refrigerant	R134A	R407C	R134A	R407C	R407C	R134A
Refrigerant Charge (ounces/grams)	12/340	20/567	16/454	20/567	20/567	16/454
Operating Temperature Range:						
Maximum (°F/°C)	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C
Minimum (°F/°C)	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	151/256	189/321	189/321	189/321	189/321	189/321
External loop 50 Hz (CFM / m^3/hr.)	284/482	291/494	291/494	291/494	291/494	291/494
Internal loop 60 Hz (CFM / m^3/hr.)	183/310	221/375	221/375	221/375	221/375	221/375
External loop 60 Hz (CFM / m^3/hr.)	290/492	300/509	300/509	300/509	300/509	300/509
Max. Heater W (Outdoor Models)	2000	2000		2000	2000	
ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**400/460 3~**	**115**	**230**	**400/460 3~**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	465/1055	1058/1334	680/874	1138.5/1311	1058/1334	680/874
Max. Nominal Current (A at 50/60 Hz)	10.4/10.1	4.6/5.8	1.7/1.9	9.9/11.4	4.6/5.8	1.7/1.9
Starting Current (A)	36.2	17.7	7.7	36.2	17.7	7.7
Agency Approvals	UL/cUL Listed CE EAC					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional					
CONTROLLER						
Description	Basic Mechanical Thermostat					
Thermostat Location	Enclosure Side on All Base Models					
Factory Thermostat Setting (°F/°C)	80/27	80/27	80/27	80/27	80/27	80/27
SOUND LEVEL						
At 1.5 Meters	68 dB(A)					
UNIT CONSTRUCTION						
Material	Galvanized Sheet Metal Standard (Optional: Stainless Steel)					
Finish	Powder Coat RAL 7035 Light Gray Standard					
ACCESSORIES						
EASYSWAP Adaptor Plenum (GENESIS M28)	Enables SPECTRACOOL to be mounted to GENESIS M28 air conditioner cutout Catalog Number PLM28G28					
EASYSWAP Adaptor Plenum (T-Series T29)	Enables SPECTRACOOL to be mounted to T-Series T29 air conditioner cutout Catalog Number PLT29G28					
UNIT DIMENSIONS						
Height (in./mm)	28.55/725.1					
Width (in./mm)	16.97/431.1					
Depth (in./mm)	10.10/256.6					
Weight (lb./kg)	84/38	84/38	84/38	84/38	84/38	84/38

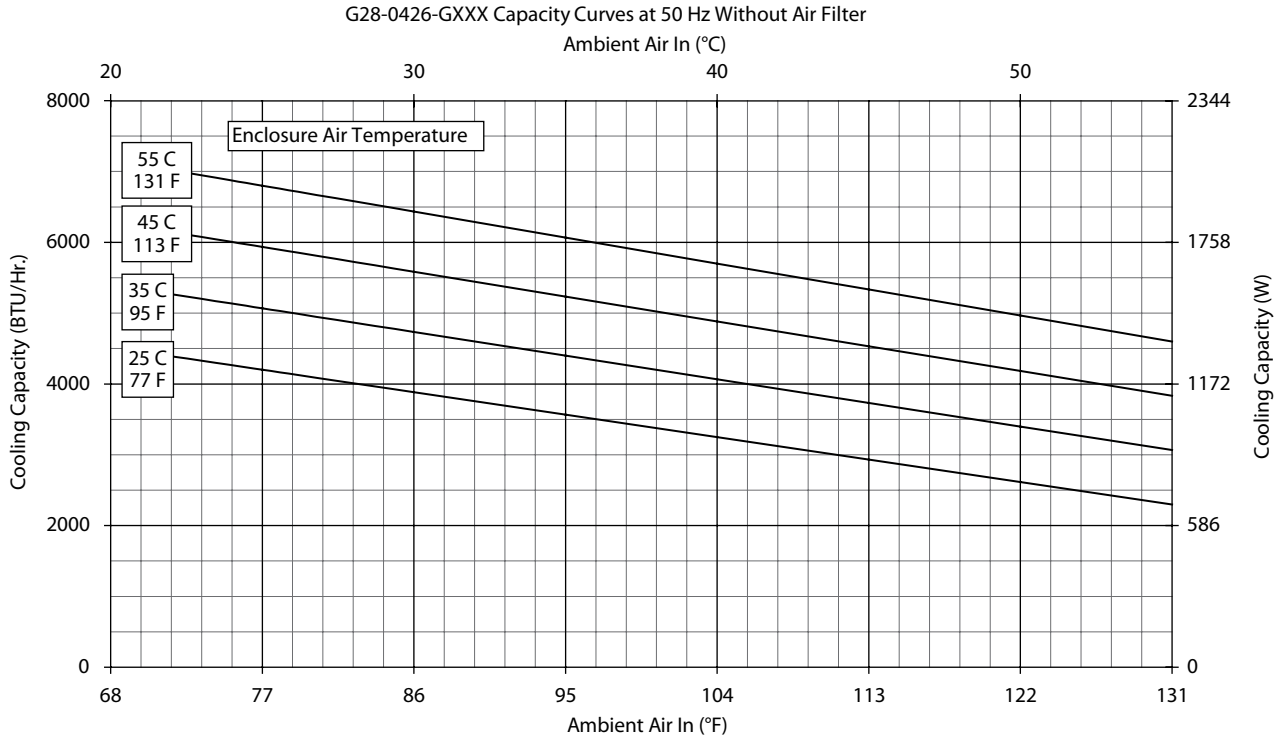
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

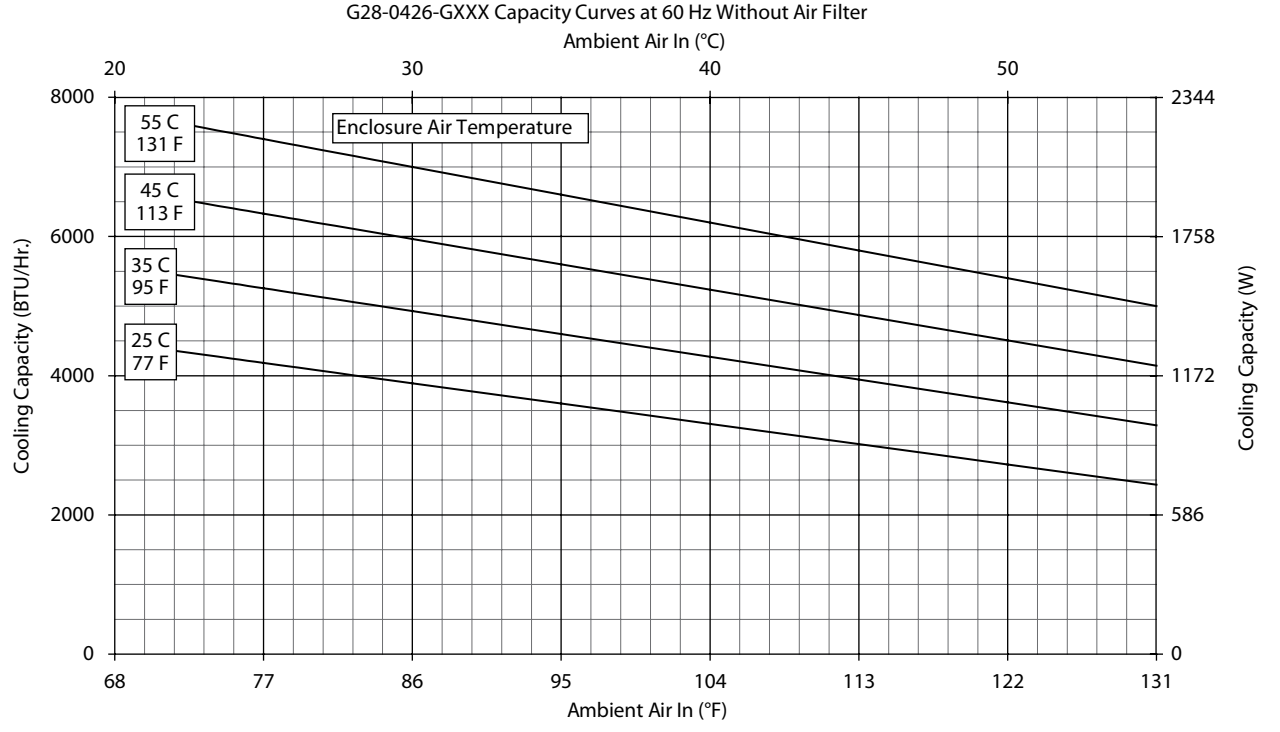
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)





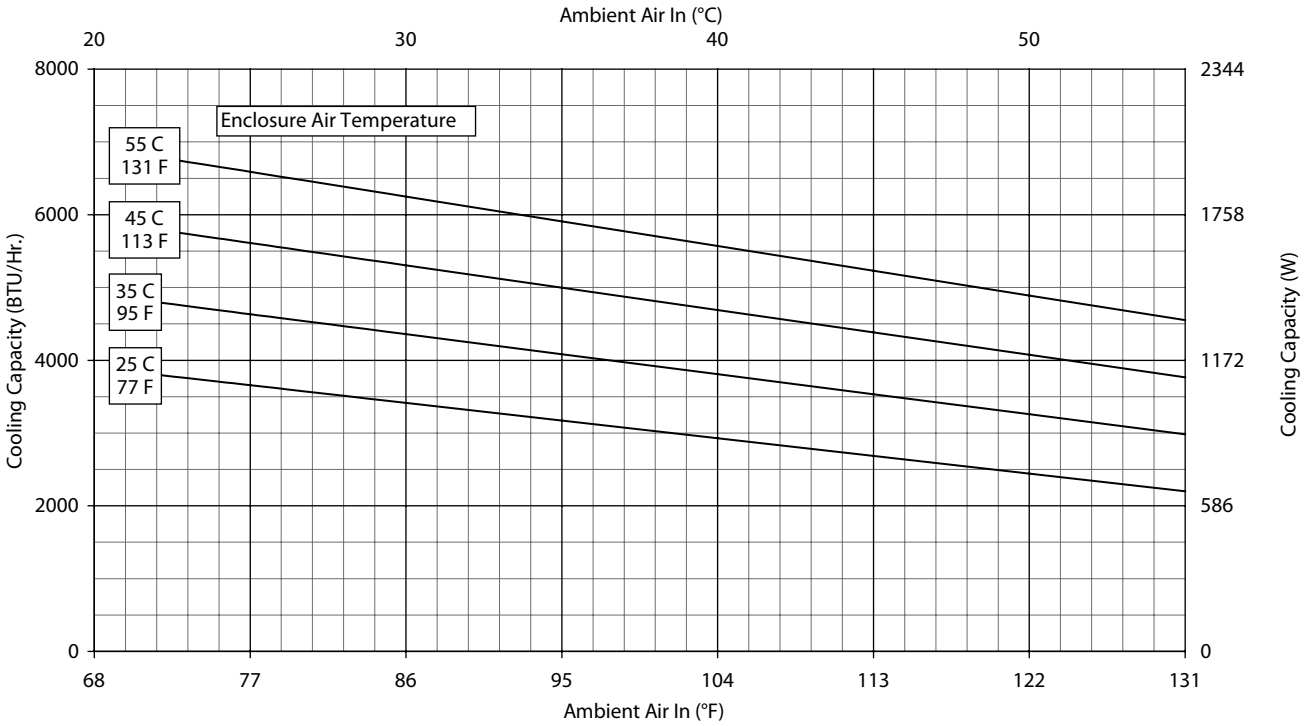
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)



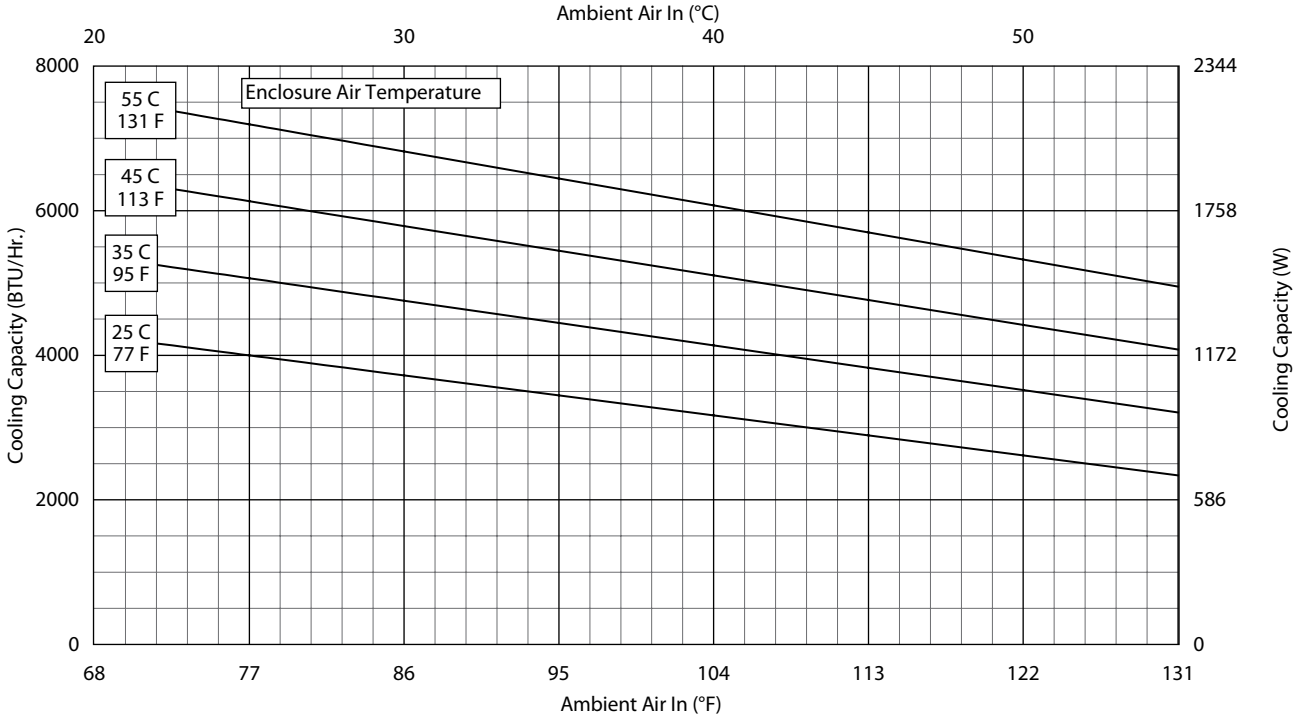


Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)

G28-0446-GXXX- Capacity Curves at 50 Hz; Without Filter

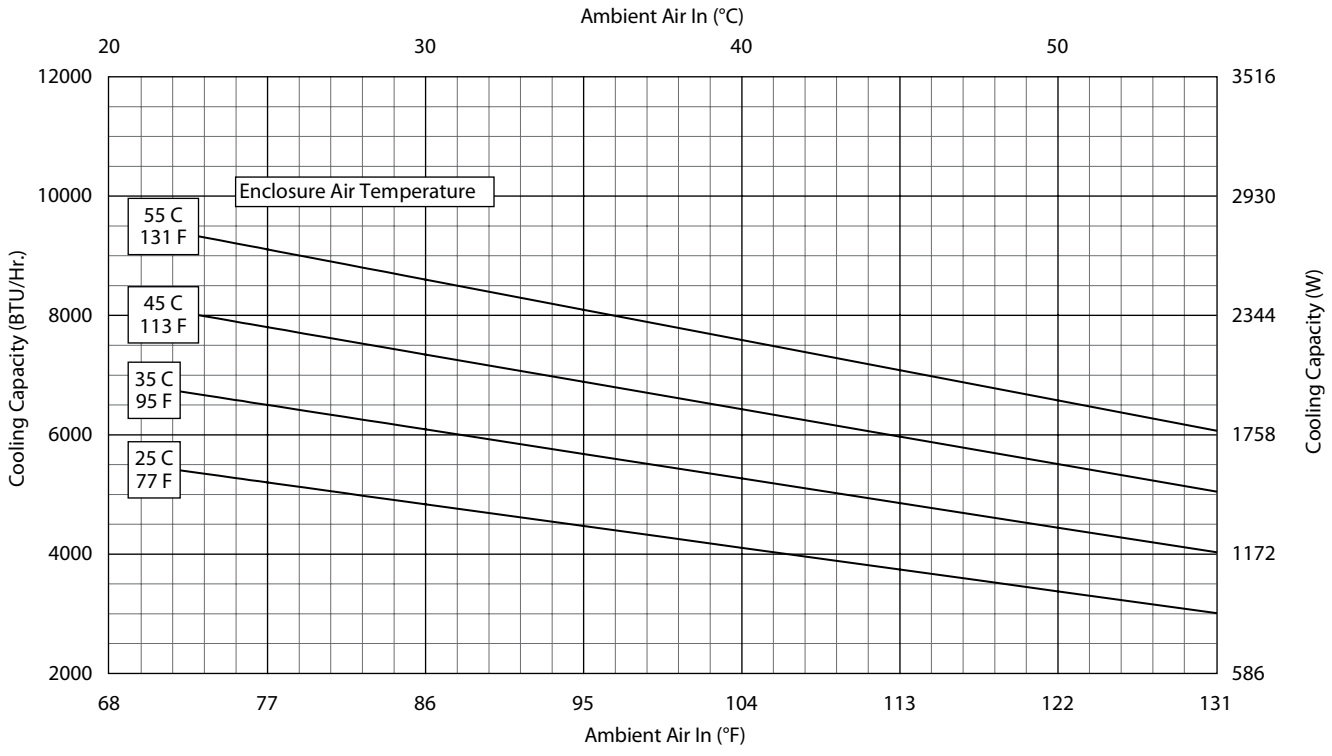


G28-0446-GXXX- Capacity Curves at 60 Hz; Without Filter

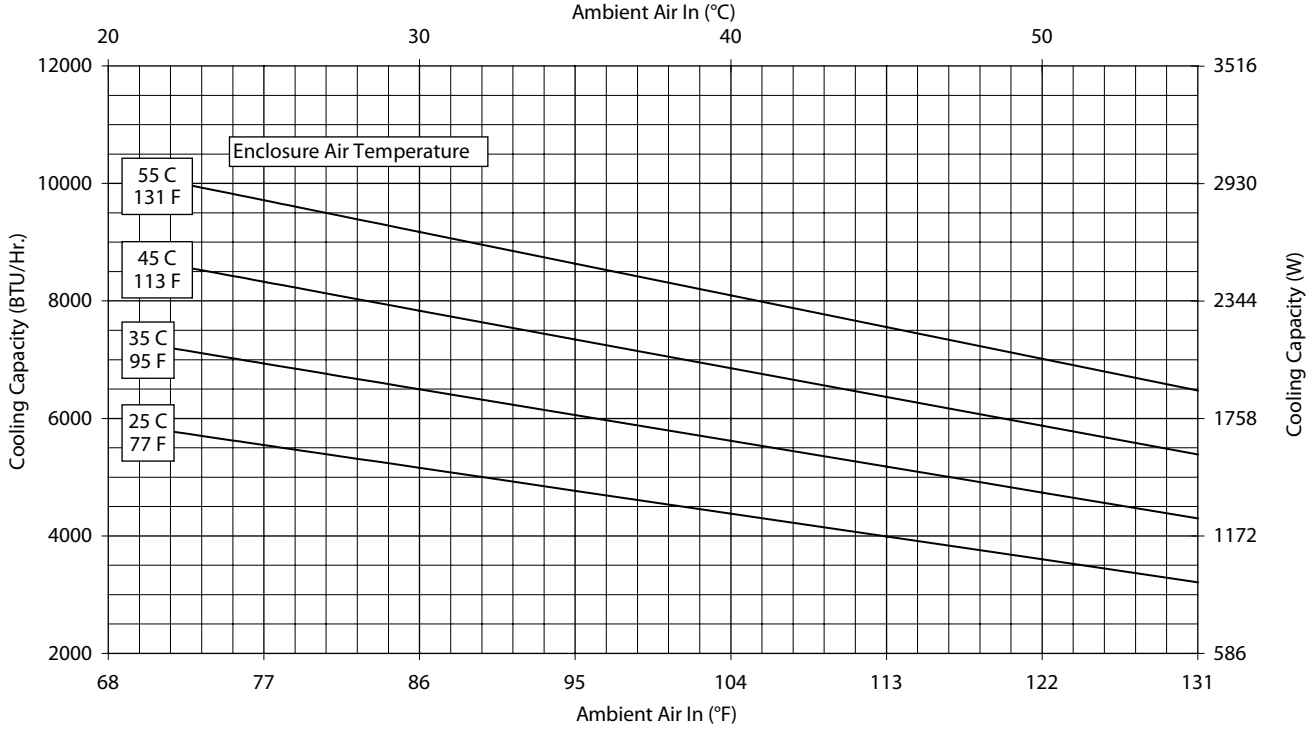


Performance Curves for G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)

G28-06(1/2)6-GXXX Capacity Curves at 50 Hz Without Filter

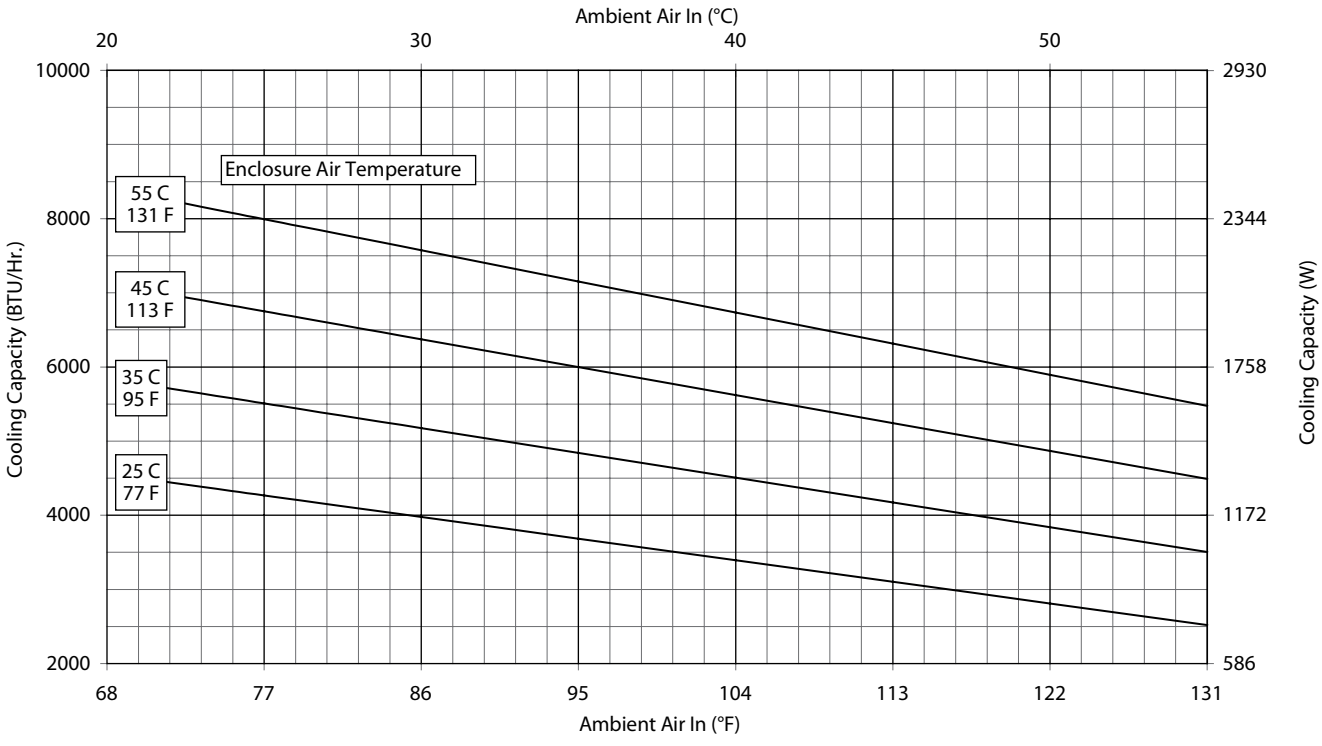


G28-06(1/2)6-G002-P#2 Capacity Curves at 60 Hz Without Filter

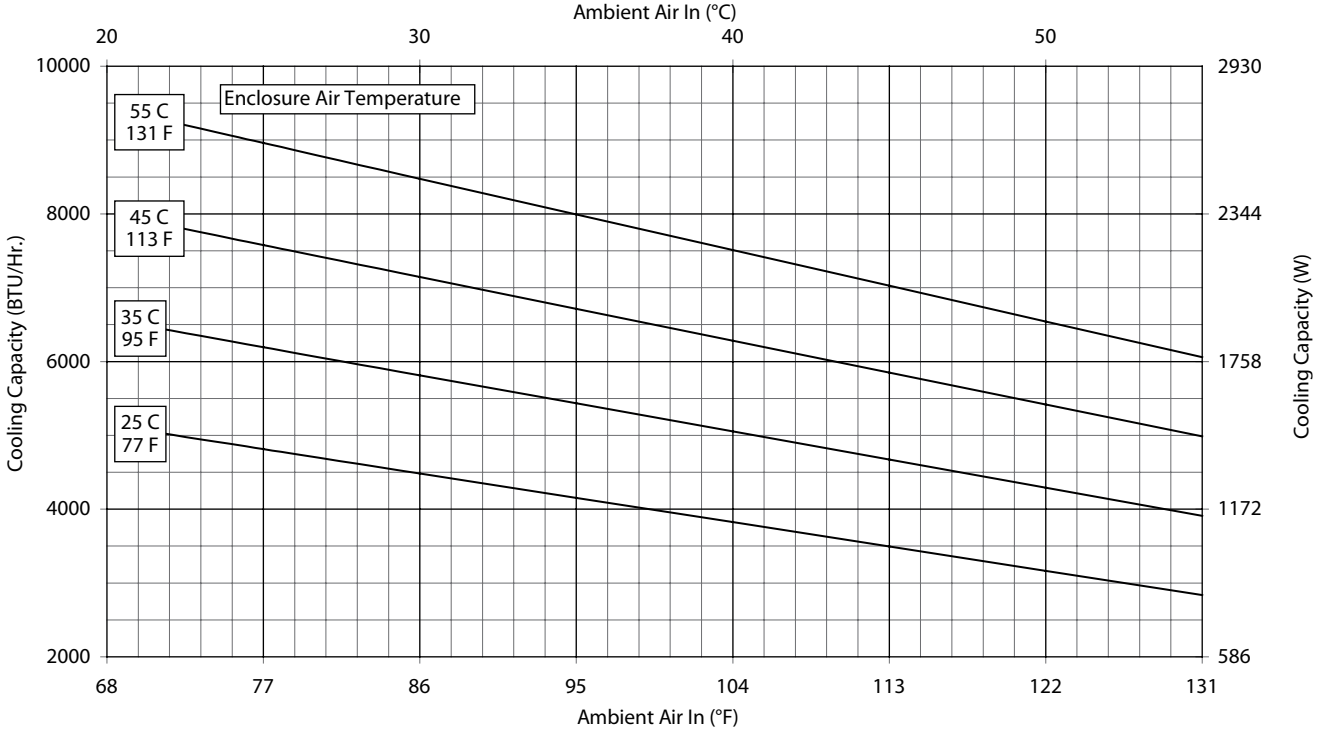


Performance Curves for G28 Models 6000 BTU/Hr. (1758 Watt)

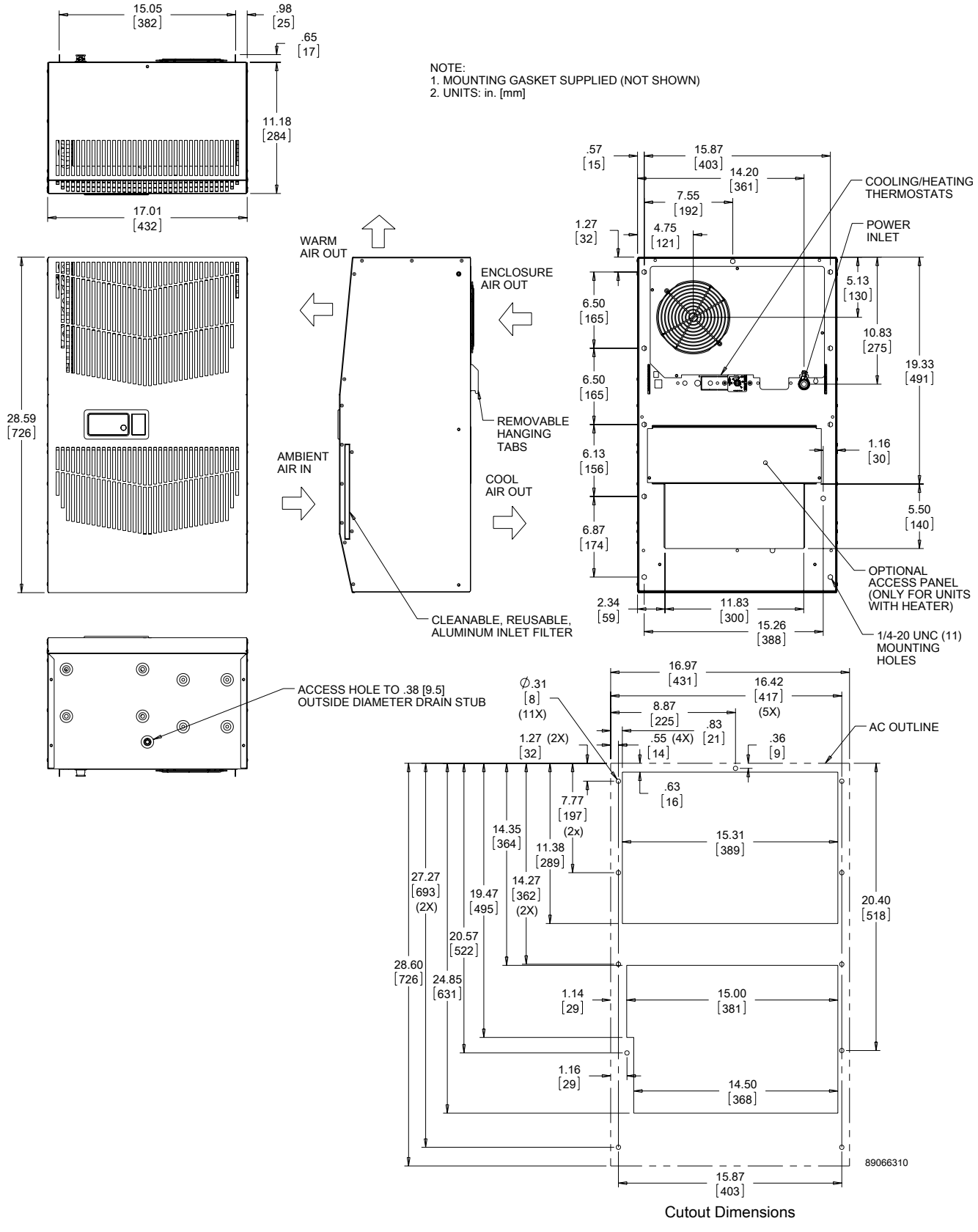
G28-0646-GXXX Performance Curve 400VAC/50Hz Without Air Filter



G28-0646-GXXX Performance Curve 460VAC/60Hz Without Air Filter



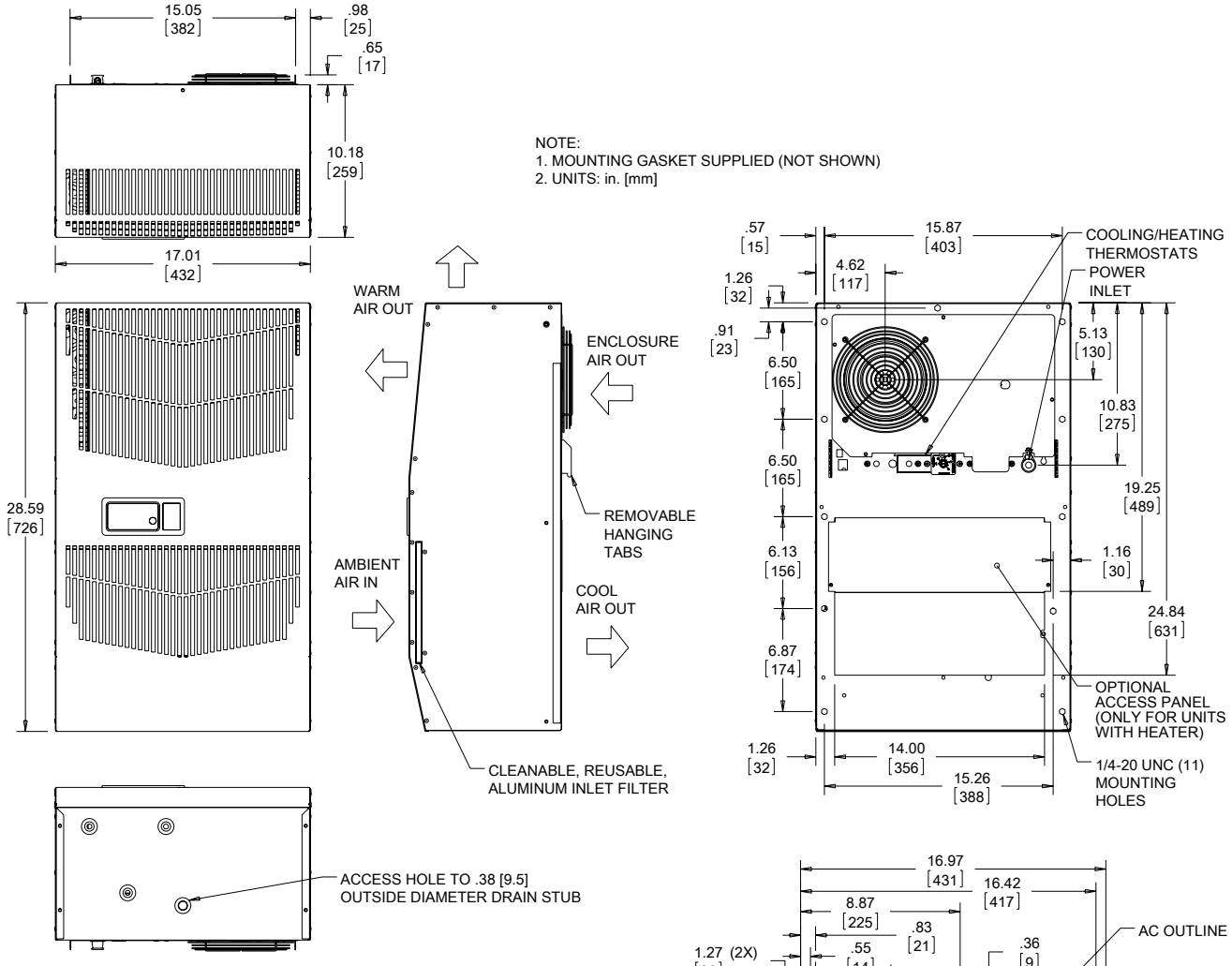
G28 Models 4000 BTU/Hr. 115 V (1172 Watt)

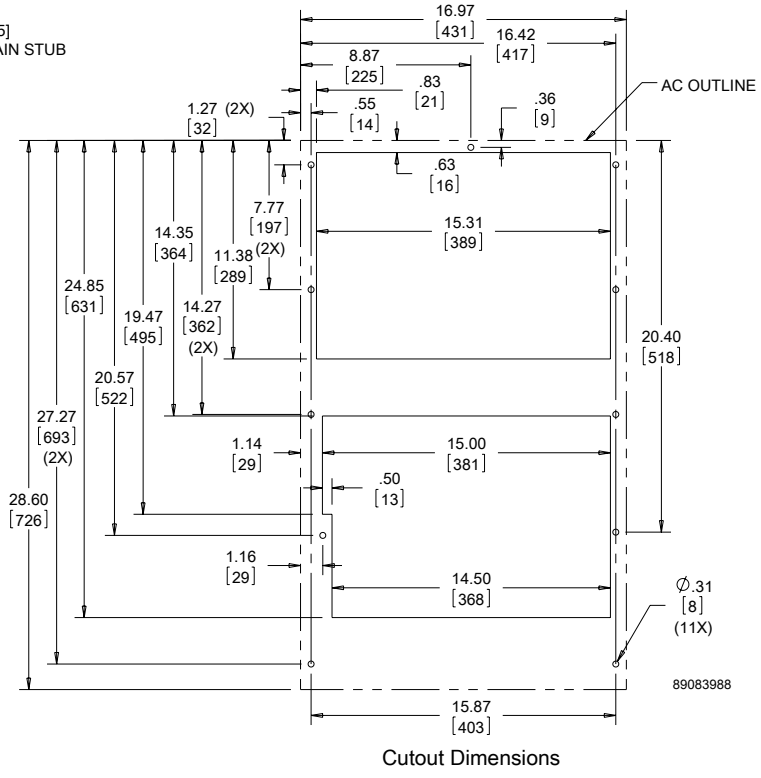


Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

G28 Models 4000 BTU/Hr. 230/460 V, 6000 BTU/Hr. 115/230/460 V (1172/1757 Watt)

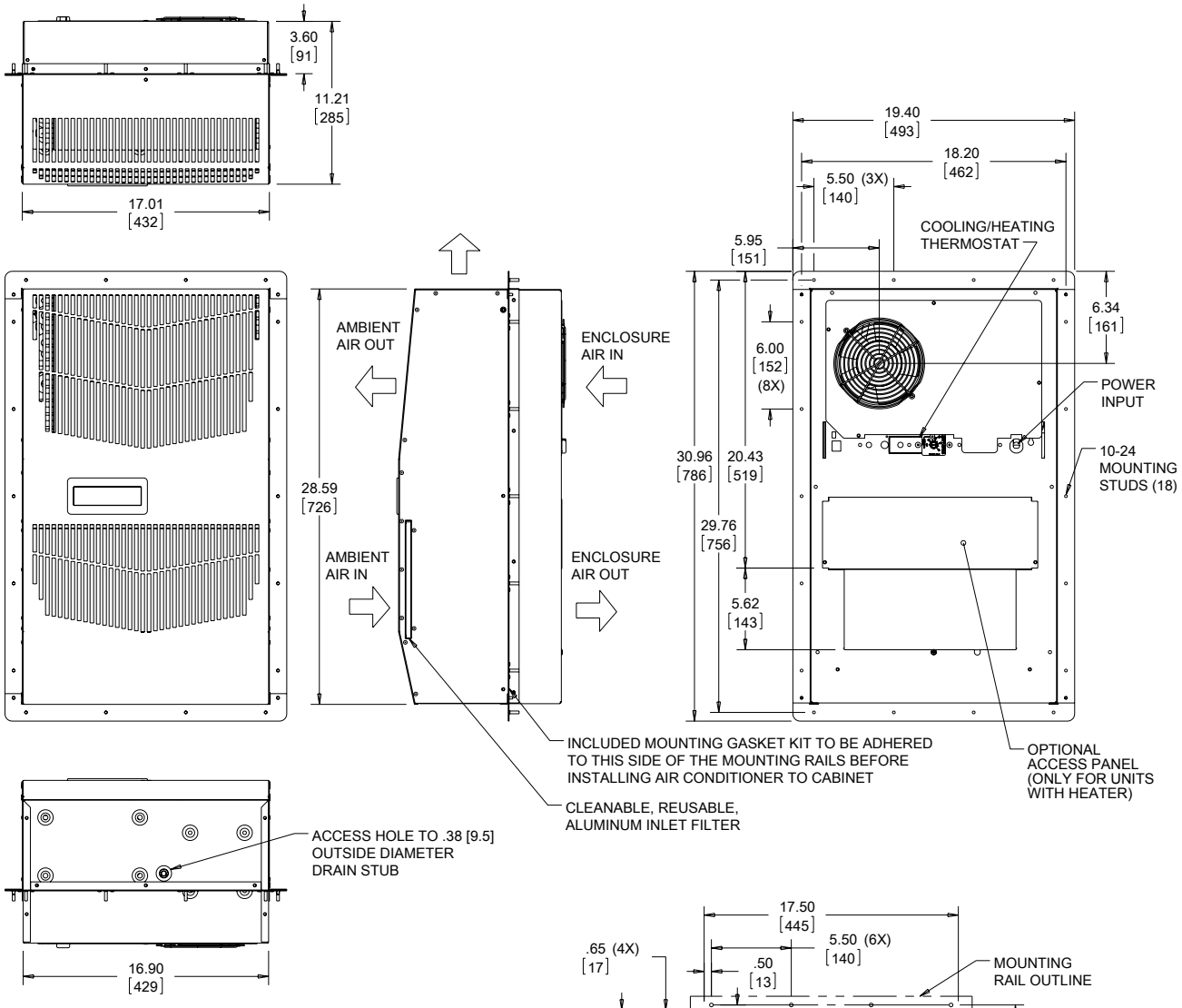


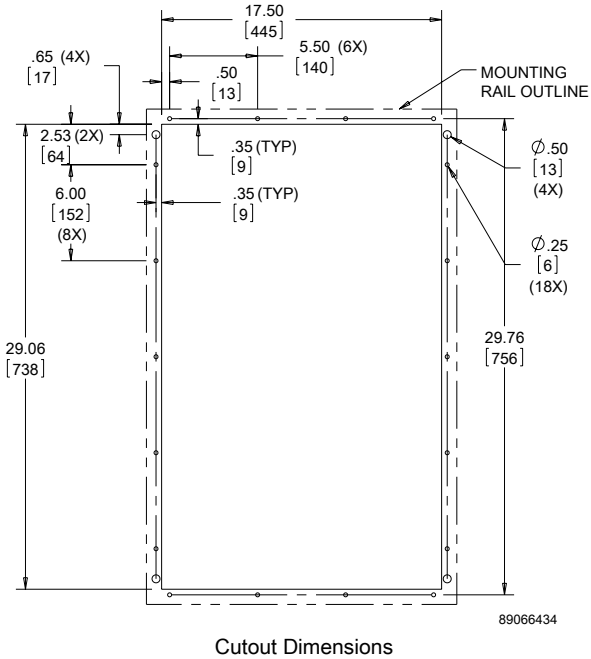


Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

G28 Models 4000 BTU/Hr. 115 V (1172 Watt) Partial Recess

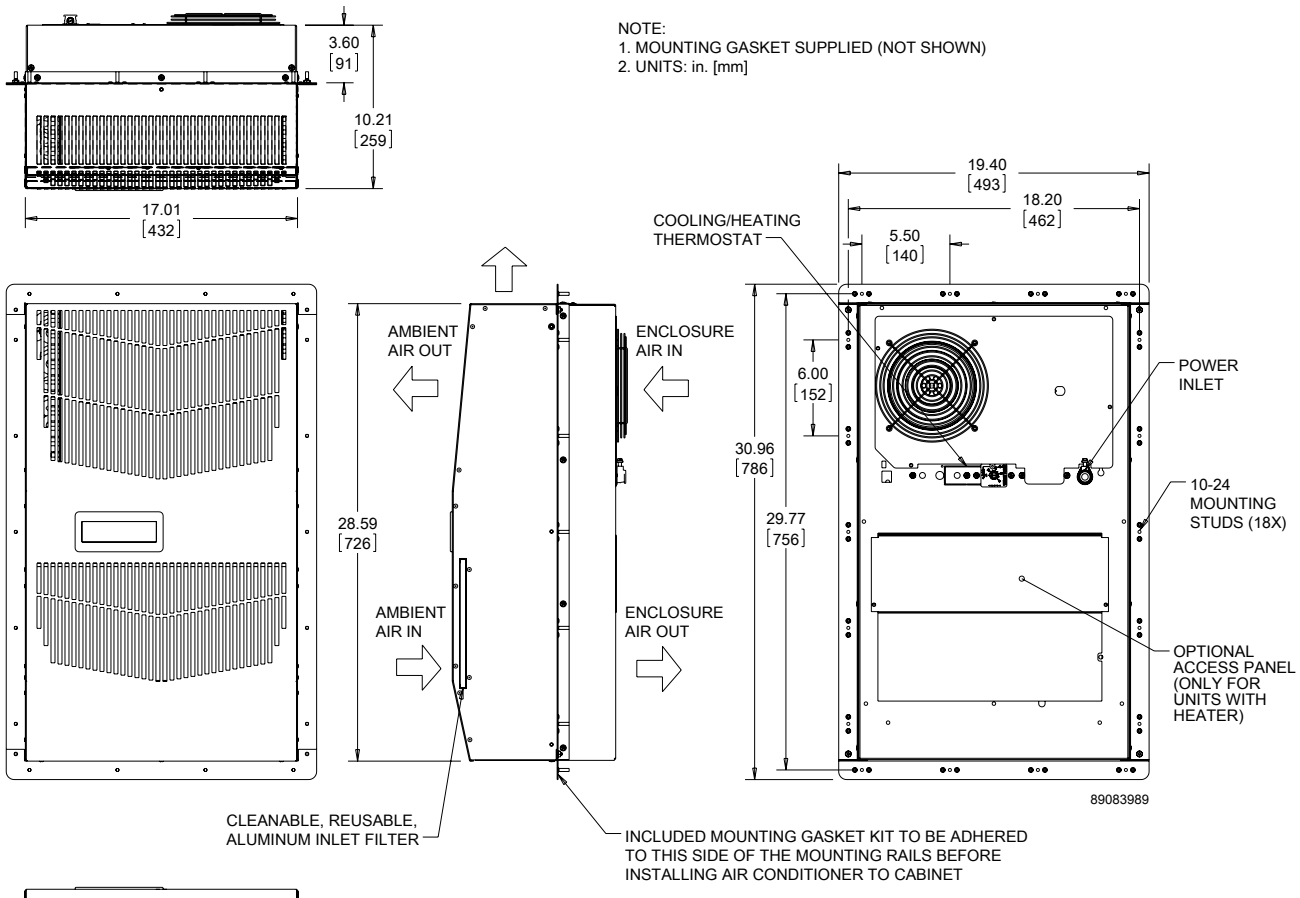




Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

G28 Model 4000 BTU/Hr. 230/460 V, 6000 BTU/Hr. 115/230/460 V (1172/1758 Watt) Partial Recess



Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

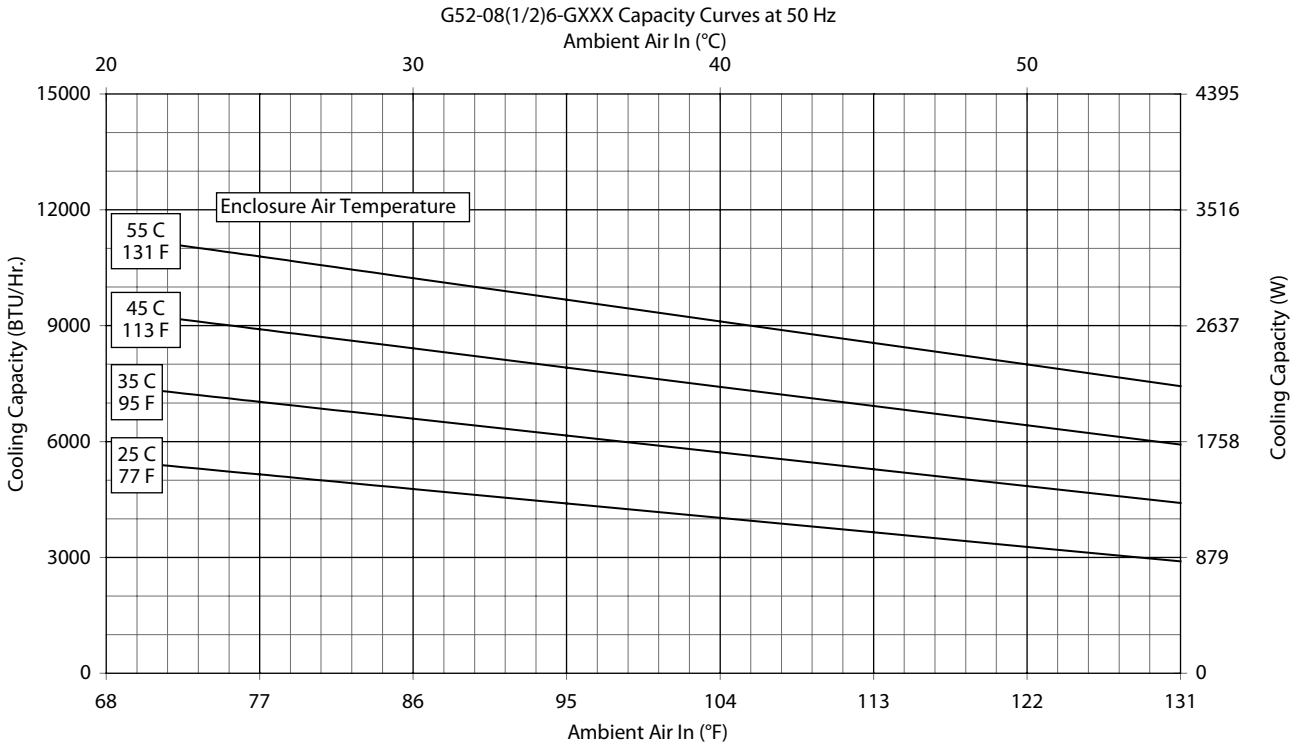
Performance Data **G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)**

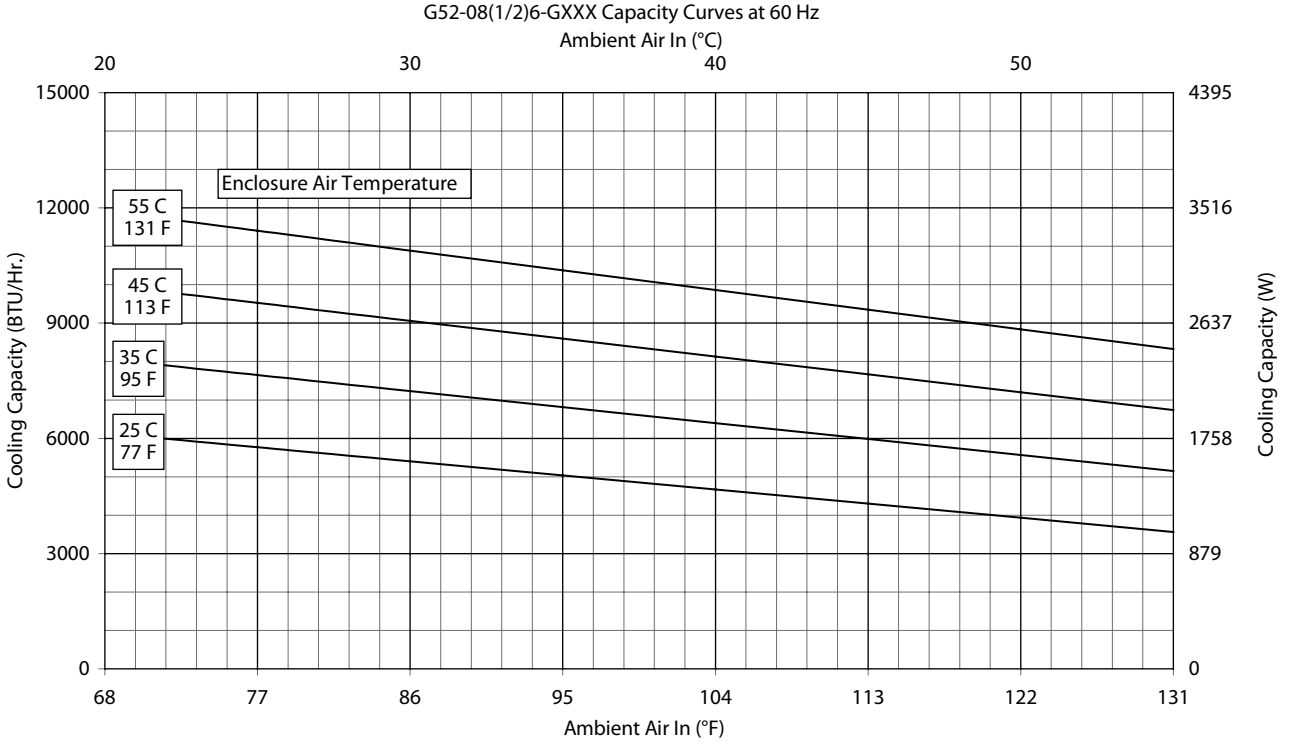
CATALOG NUMBER						
Indoor Model	G520816G050	G520826G050	G520846G050	G521216G050	G521226G050	G521246G050
Indoor Model Stainless Steel Type 4X	G520816G051	G520826G051	G520846G051	G521216G051	G521226G051	G521246G051
Indoor Model with Remote Access Control*	G520816G060	G520826G060	G520846G060	G521216G060	G521226G060	G521246G060
Outdoor Model without Heat Pkg.	G520816G100	G520826G100	G520846G100	G521216G100	G521226G100	G521246G100
Outdoor Model Partial Recessed Mount	G520816G101	G520826G101	G520846G101	G521216G101	G521226G101	G521246G101
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	G520816G102	G520826G102	G520846G102	G521216G102	G521226G102	G521246G102
Outdoor Model with Heat Pkg.	G520816G150	G520826G150	G520846G150	G521216G150	G521226G150	G521246G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	G520816G151	G520826G151	G520846G151	G521216G151	G521226G151	G521246G151
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**8000**	**8000**	**8000**	**12000**	**12000**	**12000**
Watts	**2300**	**2300**	**2300**	**3500**	**3500**	**3500**
At 131 F/131 F (55 C/55 C):						
BTU/Hr.	7300/8200	7300/8200	8800/9800	12000/12500	12000/12500	11100/12000
Watts	2139/2403	2139/2403	2578/2871	3516/3662	3516/3662	3252/3516
At 95 F/95 F (35 C/35 C):						
BTU/Hr.	6000/6800	6000/6800	7400/8200	9900/10700	9900/10700	9900/10700
Watts	1758/1992	1758/1992	2168/2402	2900/3135	2900/3135	2900/3135
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	24/680	24/680	24/680	38/1077	38/1077	38/1077
Operating Temperature Range:						
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55
Indoor Minimum (°F/°C)	50/10	50/10	50/10	50/10	50/10	50/10
Outdoor Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	285/484	285/484	285/484	287/487	287/487	287/487
External loop 50 Hz (CFM / m^3/hr.)	650/1104	650/1104	650/1104	635/1078	635/1078	635/1078
Internal loop 60 Hz (CFM / m^3/hr.)	310/527	310/527	310/527	305/518	305/518	305/518
External loop 60 Hz (CFM / m^3/hr.)	700/1189	700/1189	700/1189	650/1104	650/1104	650/1104
Max. Heater W (Outdoor Models):	2000	2000	NA	2000	2000	NA
ELECTRICAL DATA						
Rated Voltage	**115**	**230/208-230**	**400/460 3~**	**115**	**230/208-230**	**400/460 3~**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W)	1250/1415	1250/1415	806/957**	2100/2427	1830/2130	910/1106**
Max. Nominal Current (A at 50/60 Hz)	11.2/12.3	5.6/7.0-6.2	3.1/3.2	16.1/21.0	9.1/10.6-9.5	3.6/3.5
Starting Current (A)	48	27	16	57	38	16
Agency Approvals	UL/cUL Listed CE EAC Others available upon request					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional					
International Rating	IP56 internal loop IP34 external loop					
CONTROLLER						
Description	Basic mechanical thermostat with digital display					
Thermostat Location	Enclosure side on all base models					
Digital Display Location:						
Indoor Models	Ambient side					
Outdoor Models	Enclosure side					
Factory Thermostat Setting (F/C)	80/27					
SOUND LEVEL						
At 1.5 Meters	68 dB(A)					
UNIT CONSTRUCTION						
Material	Galvanized sheet metal standard Stainless steel optional					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
ACCESSORIES						
EASYSWAP Adaptor Plenum (GENESIS M52)	Enables SPECTRACOOL to be mounted to a GENESIS M52 air conditioner cutout Catalog Number PLM52G52					
UNIT DIMENSIONS						
Height (in./mm)	52.69/1338					
Width (in./mm)	17.12/435					
Depth (in./mm)	11.66/296					
Weight (lb./kg)	128/58.1	128/58.1	138/62.6	131/59.4	131/59.4	141/64.0

*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

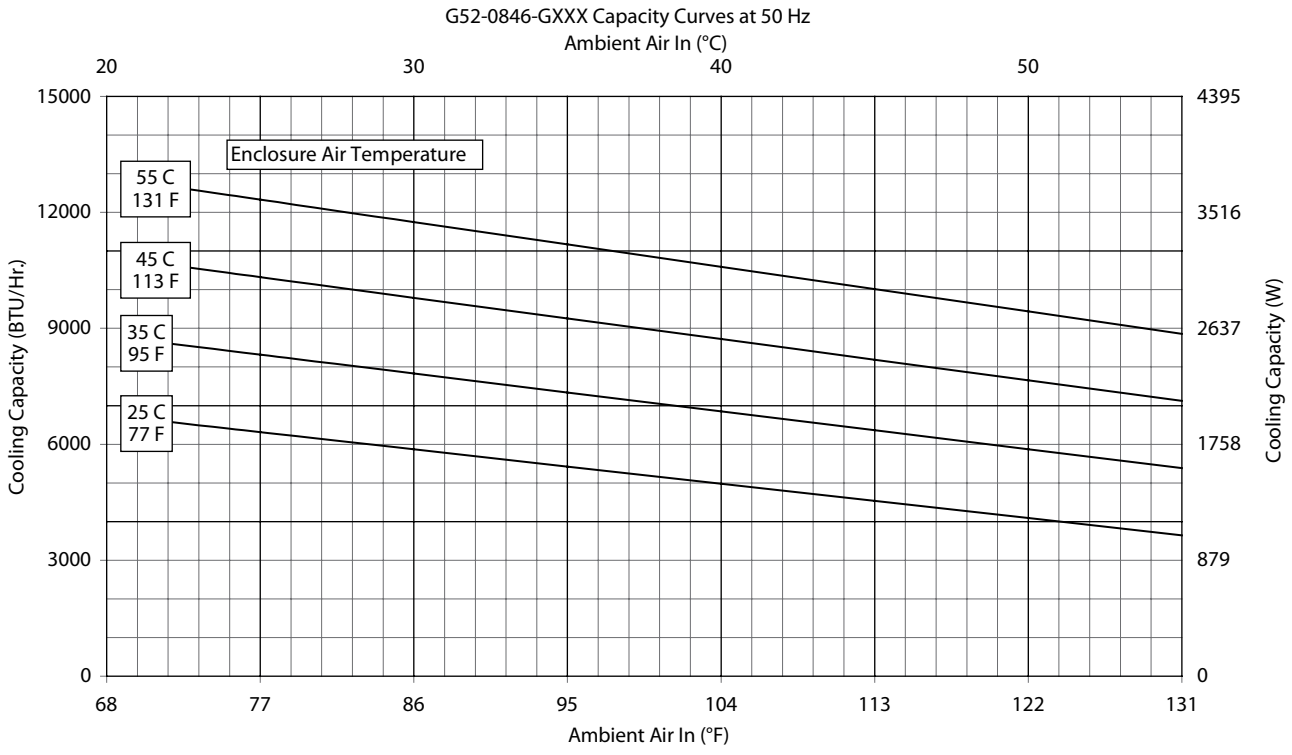
**Watts based on .65 power factor.

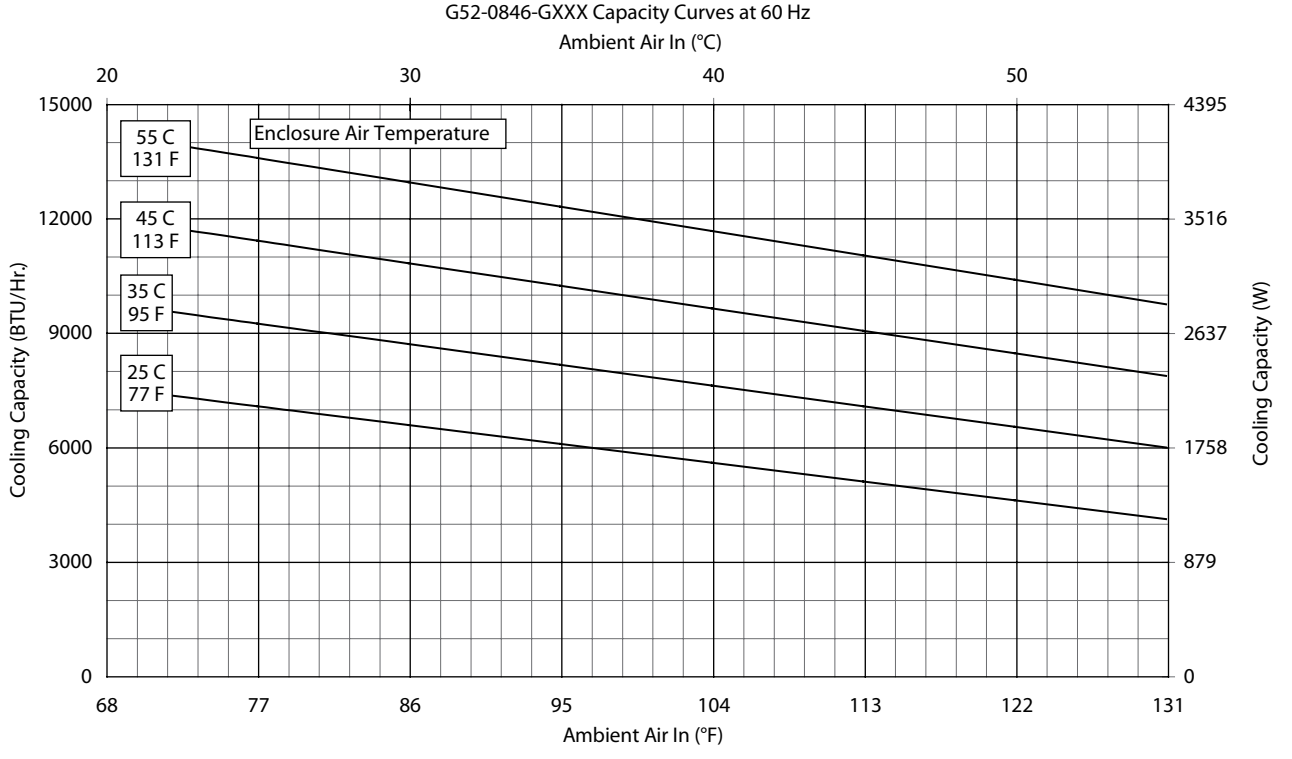
Performance Curves for G52 Models 8000 BTU/Hr. (23 Watt)



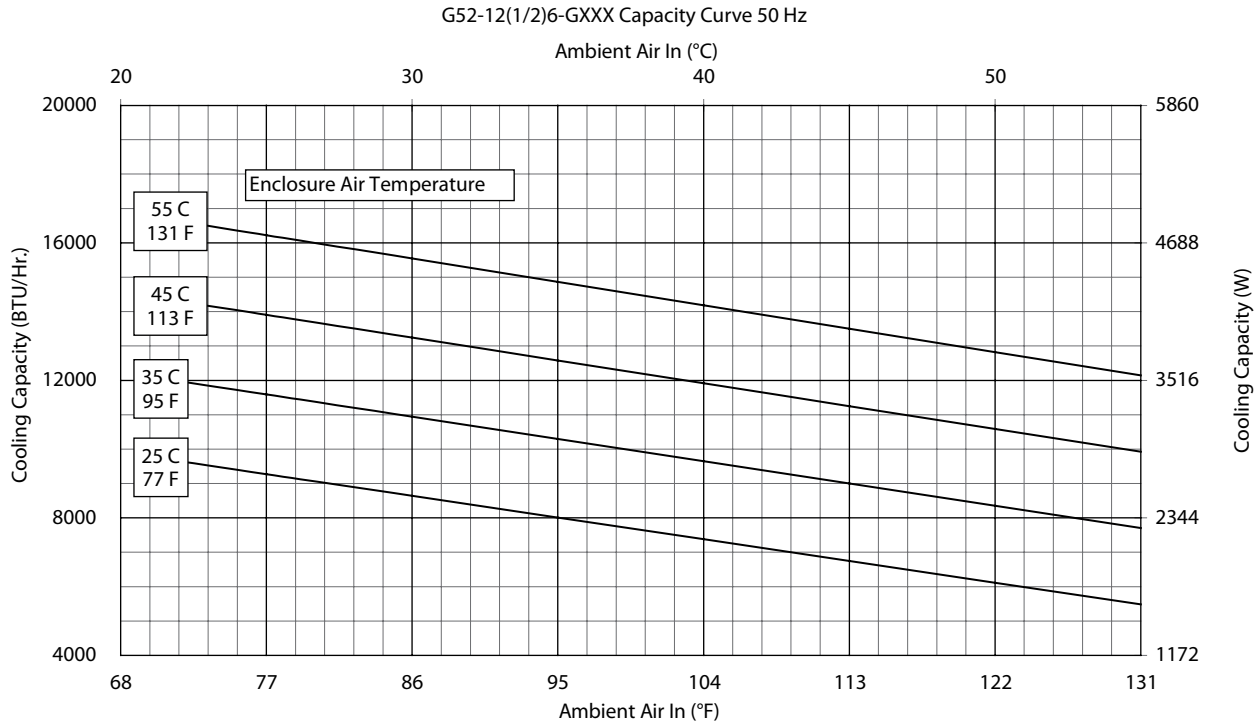


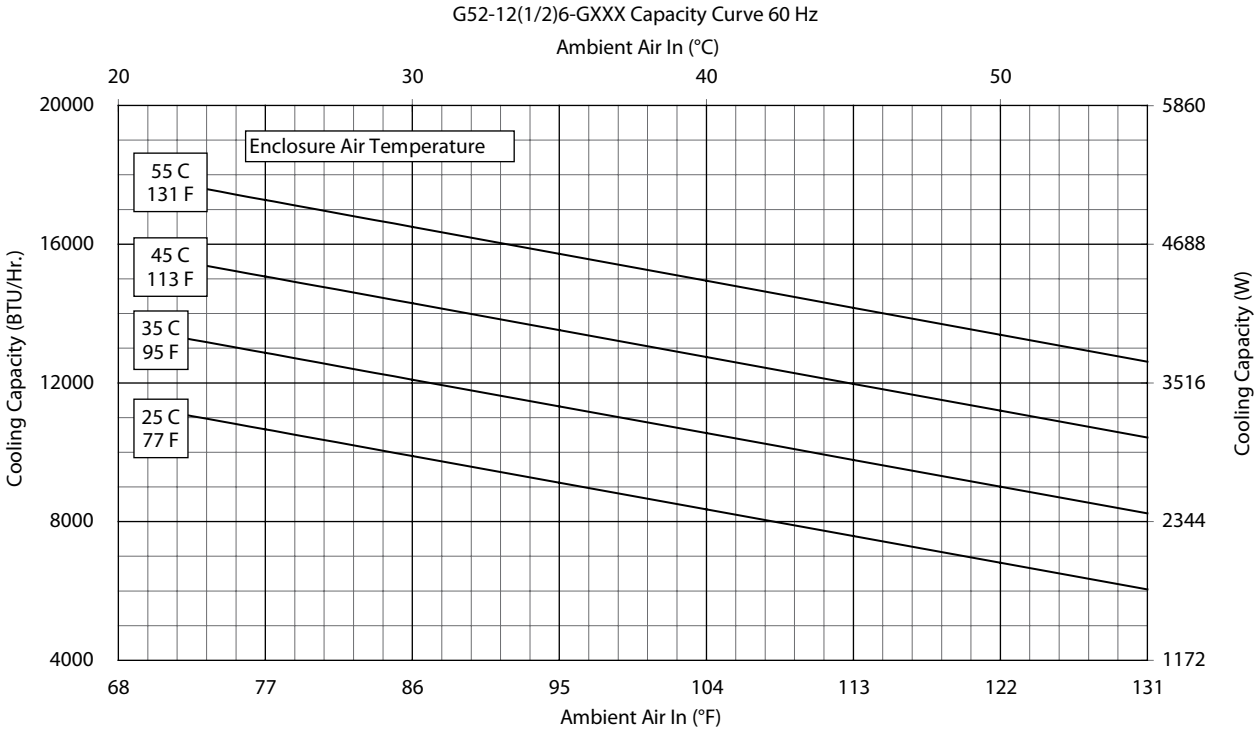
Performance Curves for G52 Models 8000 BTU/Hr. (2300 Watt)



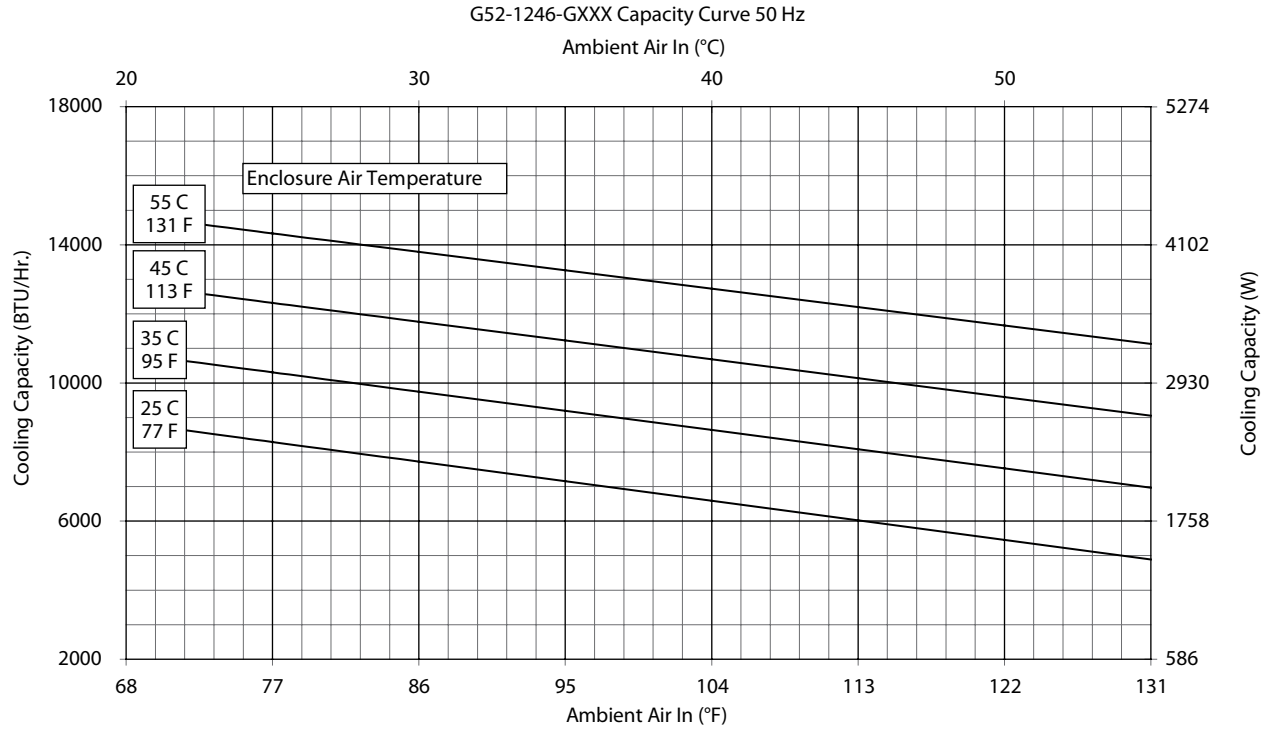


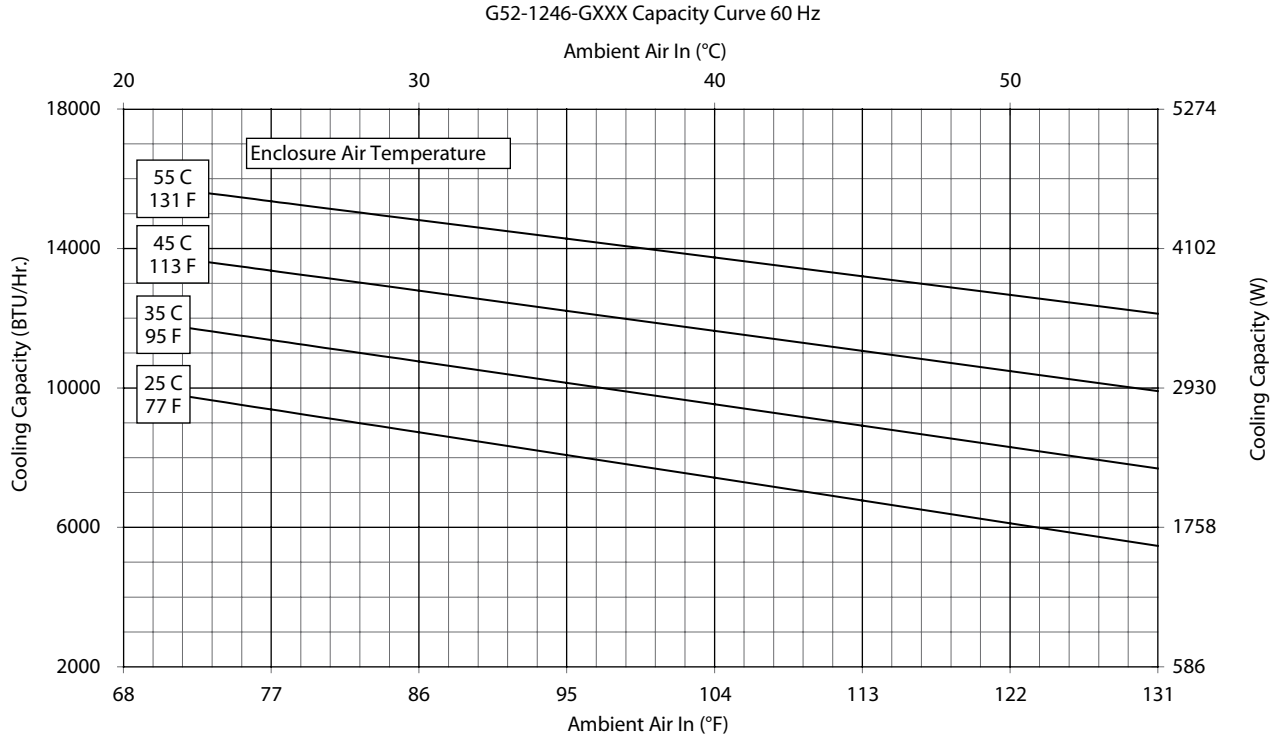
Performance Curves for G52 Models 12000 BTU/Hr. (3500 Watt)



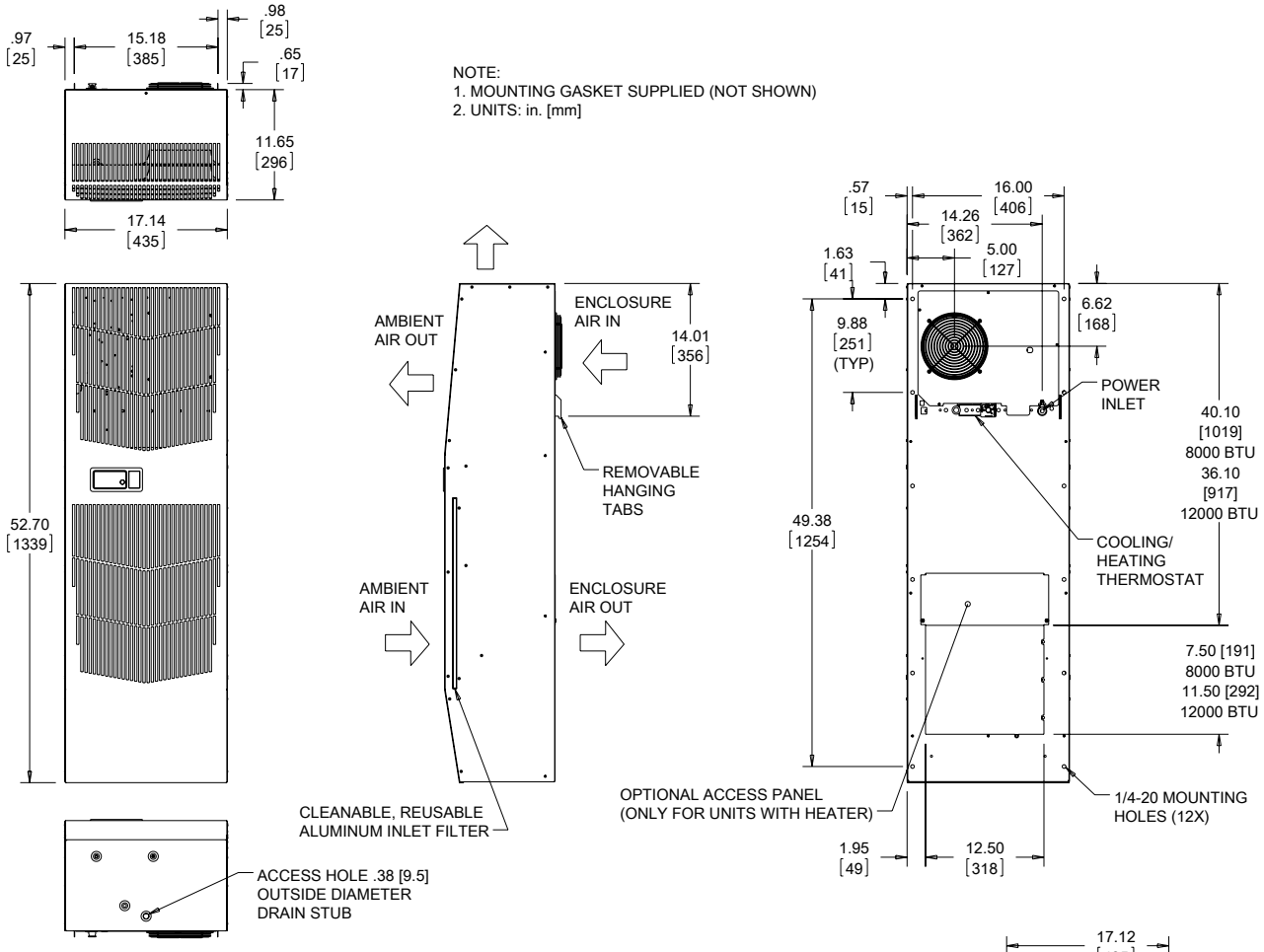


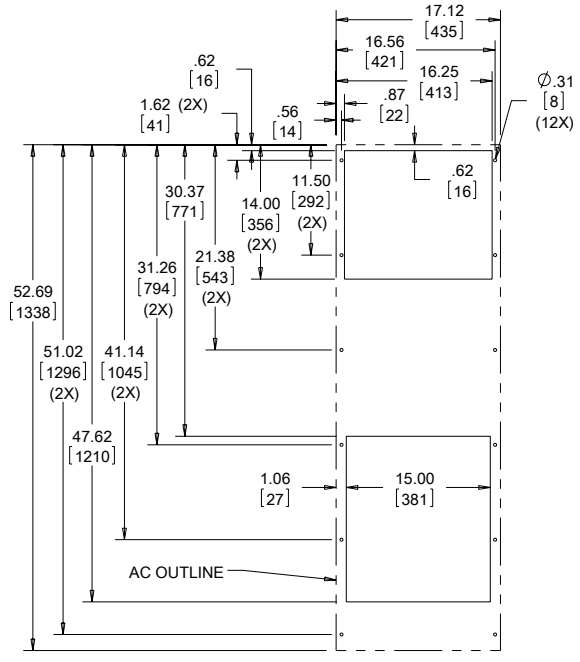
Performance Curves for G52 Models 12000 BTU/Hr. (3516 Watt)



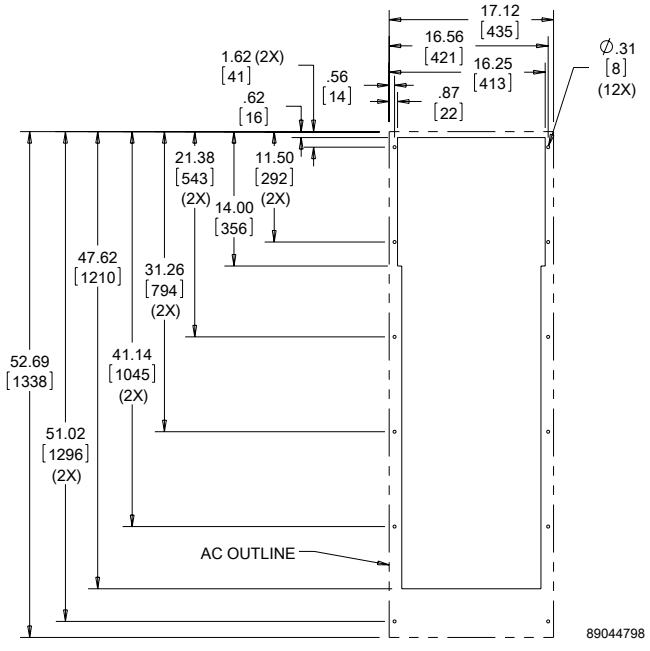


G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)





Cutout Dimensions (Standard)



Cutout Dimensions (G520846G150, G520846G151, G521246G150, G521246G151 only)

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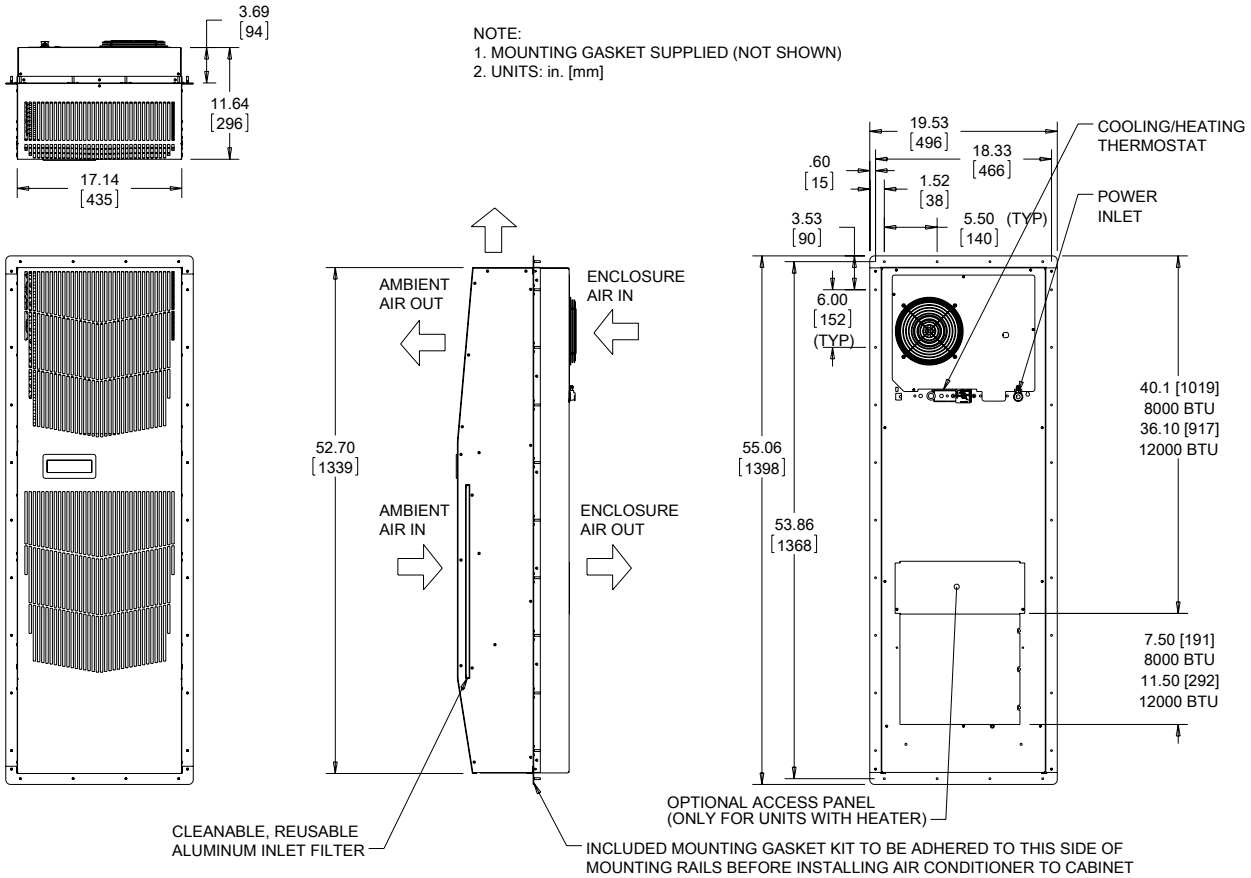
G52 Models 8000/12000 BTU/Hr. (2344/3516 Watt) with Partial Recess



Cutout Dimensions

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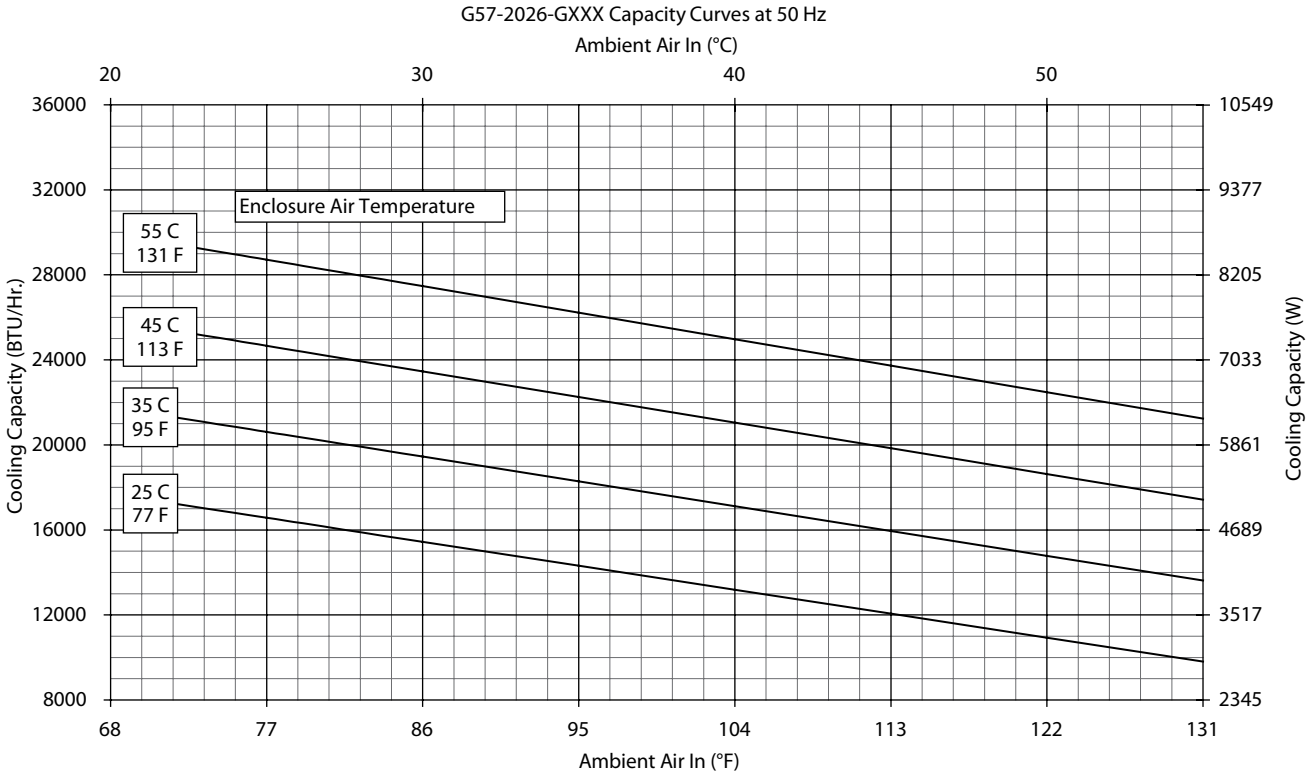
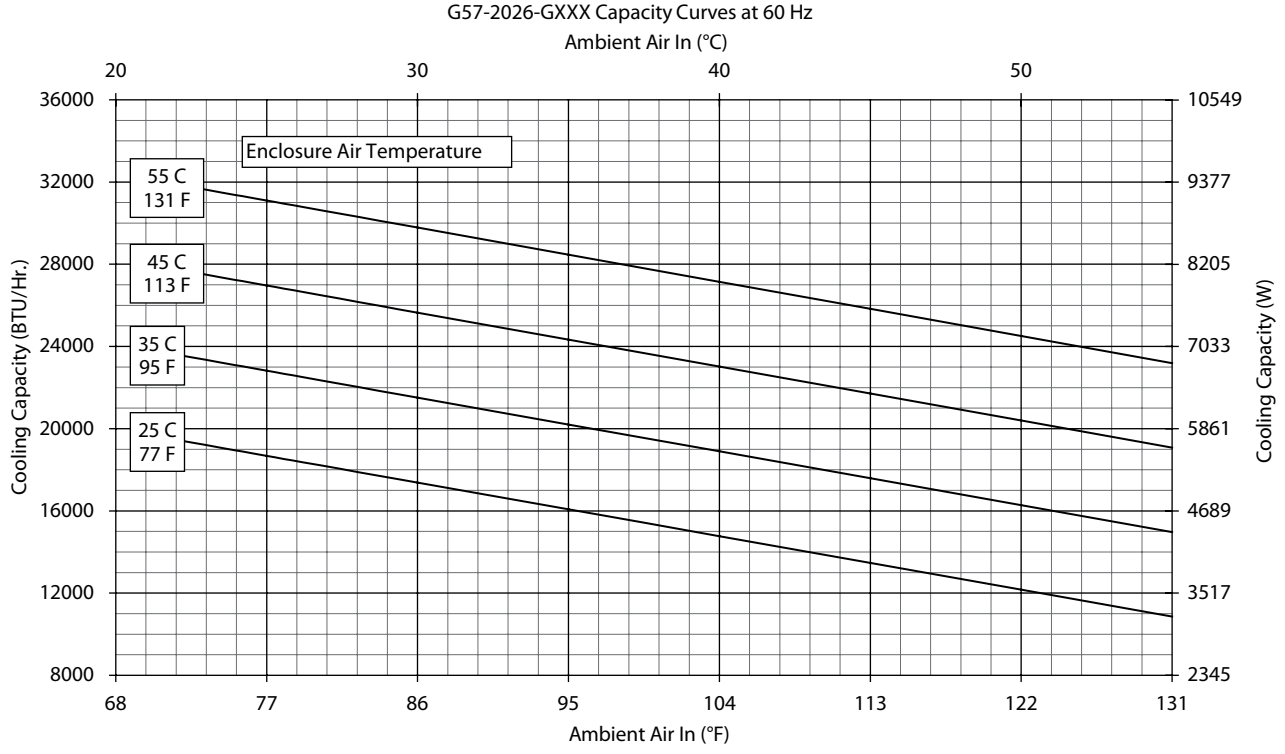
Performance Data **G57 Models 20000 BTU/Hr. (5861 Watt)**

CATALOG NUMBER		
Indoor Model	G572026G050	G572046G050
Indoor Model Stainless Steel Type 4X	G572026G051	G572046G051
Indoor Model with Remote Access Control*	G572026G060	G572046G060
Outdoor Model without Heat Pkg.	G572026G100	G572046G100
Outdoor Model Partial Recessed Mount	G572026G101	G572046G101
Outdoor Model with Heat Pkg.	G572026G150	G572046G150
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	G572026G102	G572046G102
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	G572026G151	G572046G151
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**20000**	**20000**
Watts	**5861**	**5861**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	17500/19600	21400/23400
W (50/60 Hz)	5129/5744	6272/6857
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50/60 Hz)	16000/18000	19300/21400
W (50/60 Hz)	4689/5275	5656/6272
Refrigerant	R407c	R407c
Refrigerant Charge (ounces/grams)	50/1417	48/1361
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Indoor Minimum (°F/°C)	50/10	50/10
Outdoor Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	513/872	513/872
External loop 50 Hz (CFM / m^3/hr.)	919/1562	919/1562
Internal loop 60 Hz (CFM / m^3/hr.)	587/998	587/998
External loop 60 Hz (CFM / m^3/hr.)	1055/1794	1055/1794
Max. Heater W (Outdoor Models)	3000	3000
ELECTRICAL DATA		
Rated Voltage	**230/230**	**400/460 3~**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consuption (W at 50/60 Hz)	4508/5106	2400/3128
Max. Nominal Current (A at 50/60 Hz)	19.6/22.2	6.0/6.8
Starting Current (A)	63	27
Agency Approvals	UL/cUL Listed CE EAC Others available upon request	
Power Input Description	Terminal Block	
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X stainless steel optional	
International Rating	IP56 internal loop IP34 external loop	
CONTROLLER		
Description	Basic mechanical thermostat with digital display	
Thermostat Location	Enclosure side on all base models	
Digital Display Location:		
Indoor Models	Ambient side	
Outdoor Models	Enclosure side	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	74.1 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
ACCESSORIES		
EASYSWAP Adaptor Plenum (T-Series T53)	Enables SPECTRACOOL to be mounted to a T-Series T53 air conditioner cutout part #57721601SP	
UNIT DIMENSIONS		
Height (in./mm)	57.69/1465.4	
Width (in./mm)	20.87/530.1	
Depth (in./mm)	15.28/388.1	
Weight (lb./kg)	197/89	

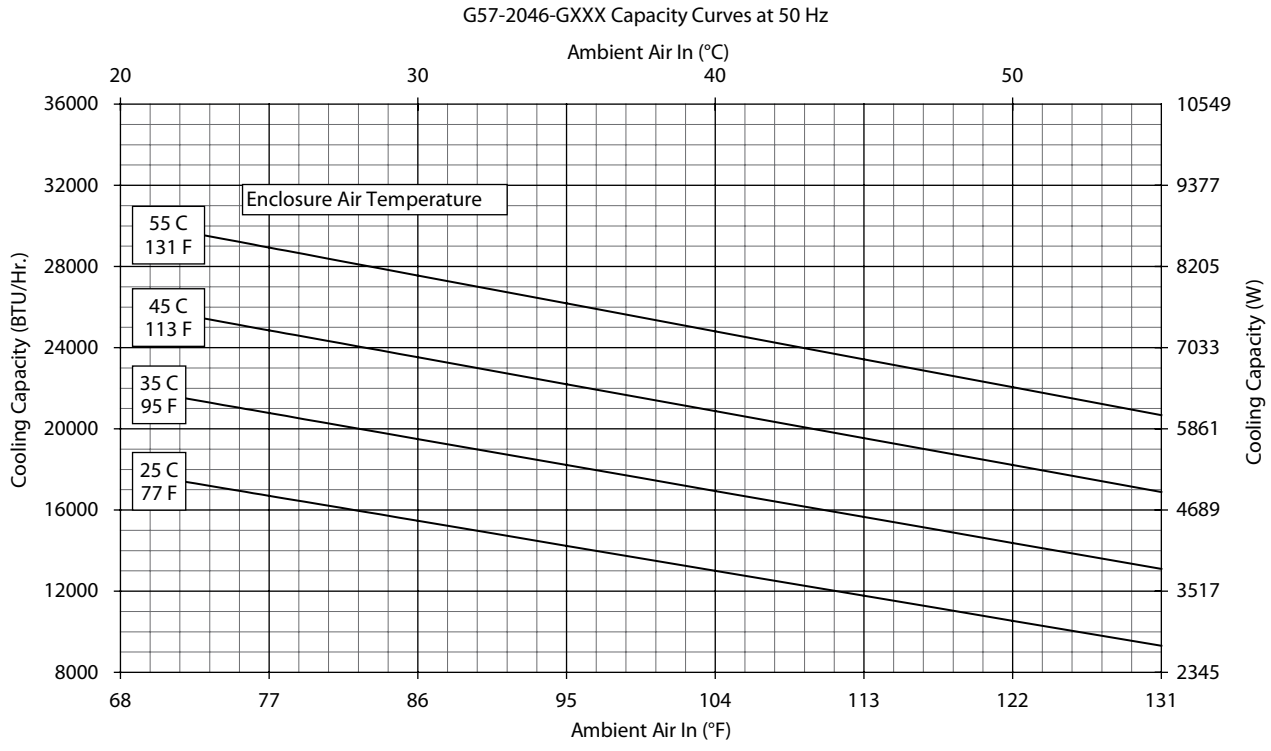
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

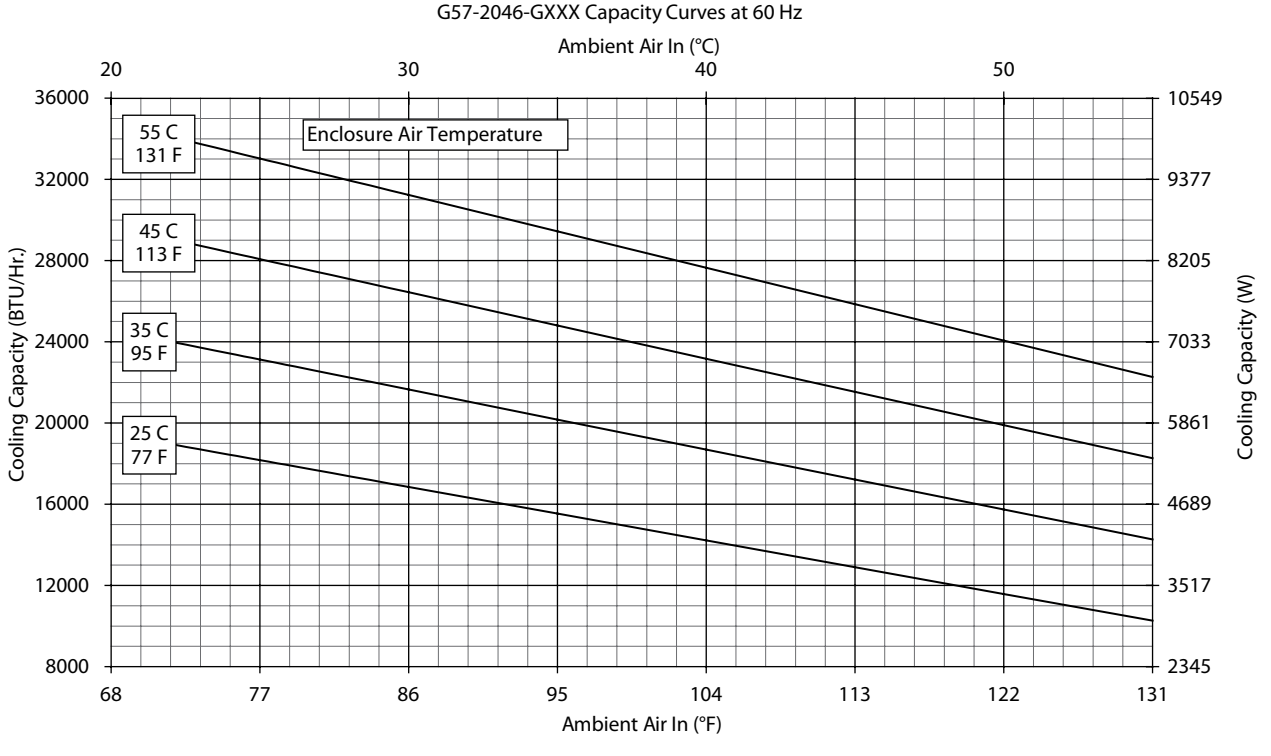
Performance Curves for G57 Models 20000 BTU/Hr.



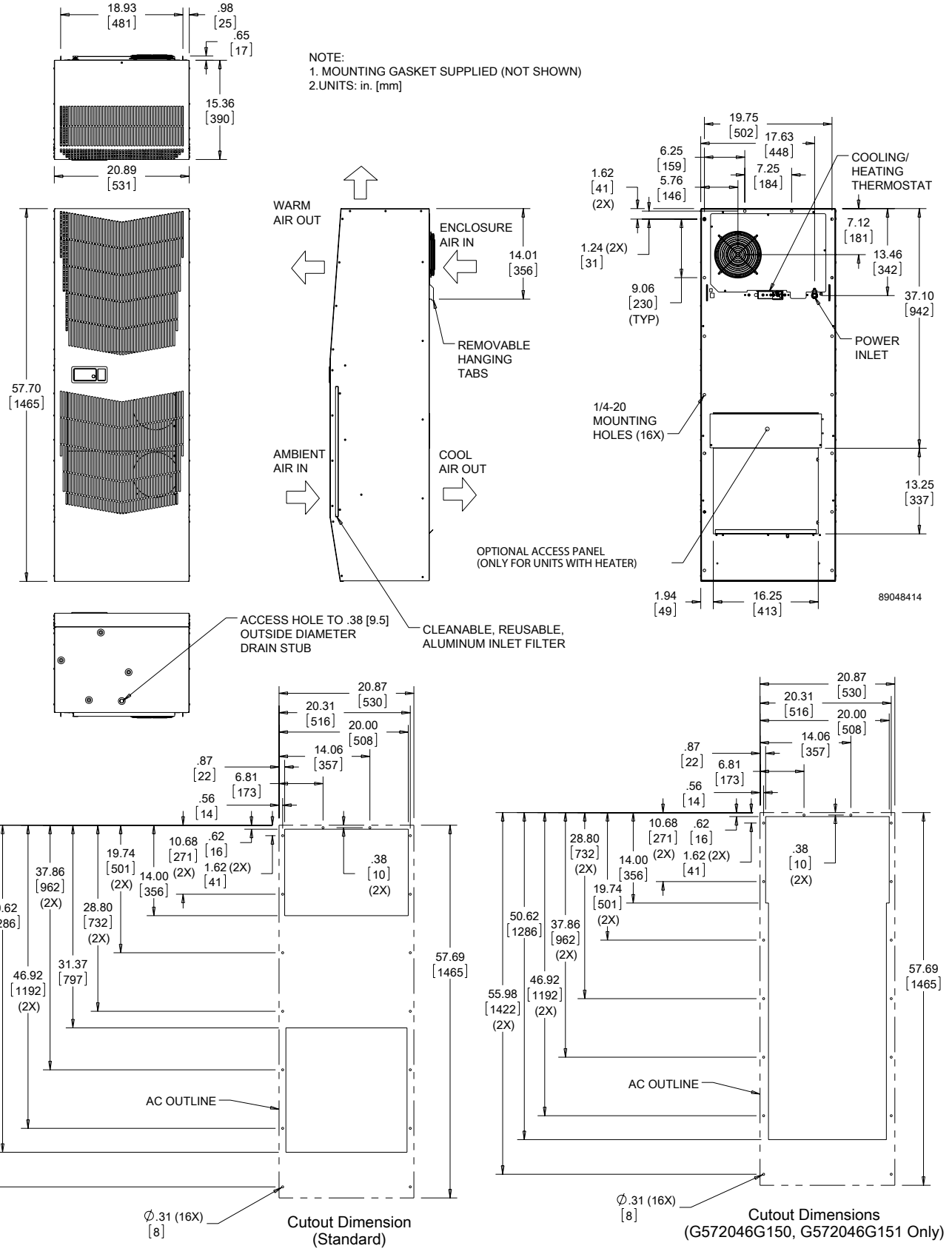


Performance Curves for G57 Models 20000 BTU/Hr.





G57 Models 20000 BTU/Hr. (5861 Watt)



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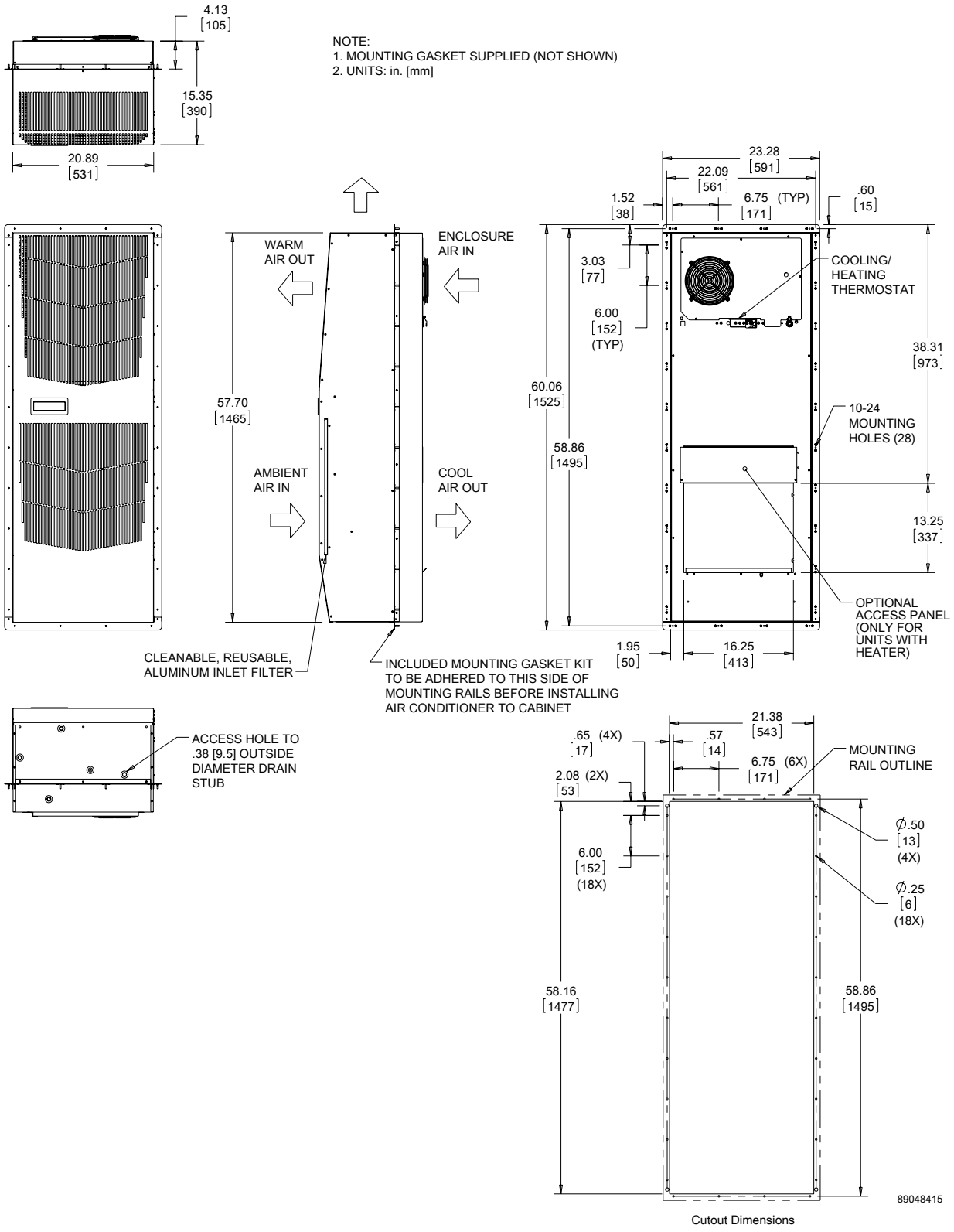
G57 Models 20000 BTU/Hr. (5861 Watt) With Partial Recess



Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Notes

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SPECTRACOOL SLIM FIT INDOOR

S06
1000/1700 BTU/Hr.
300/500 Watt

S10
3400/5000 BTU/Hr.
1000/1500 Watt

S16
6800/8500/13500 BTU/Hr.
2000/2500/4000 Watt

INDUSTRY STANDARDS

UL/cUL Listed Type 12; File No.SA6453

CE
EAC
IP 54 Internal Loop
IP34 External Loop

APPLICATION

- Industrial Automation
- Machine Tool
- Automotive
- Packaging handling equipment
- Material handling

FEATURES

- Slim fit design
- Standard cutout dimension for easy exchange
- Energy efficient rotary compressor
- R134a earth-friendly refrigerant
- Models for 115, 230, and 400/460 3-phase VAC power input
- UL Listed to save customers time and money with agency approvals
- Active condensate management to prevent dripping water
- Aesthetic design plastic cover to optimize air flow
- Three mounting options; fully recessed, partial recessed and surface mount
- Remote access control option for monitoring units worldwide
- Easy filter replacement for extremely dusty environments
- Dust resistant coils for filterless operation
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Door switch

SPECIFICATIONS

- Nominal cooling capacity
  - S06 1000 and 1500 BTU/hr. (300 and 500 W)
  - S10 3400 and 5000 BTU/hr. (1000 and 1500 W)
  - S16 6800, 8500, and 13500 BTU/hr. (2000, 2500, and 4000 W)
- Operating temperature range from 50 F / 10 C to 131 F / 55 C

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint

NOTES

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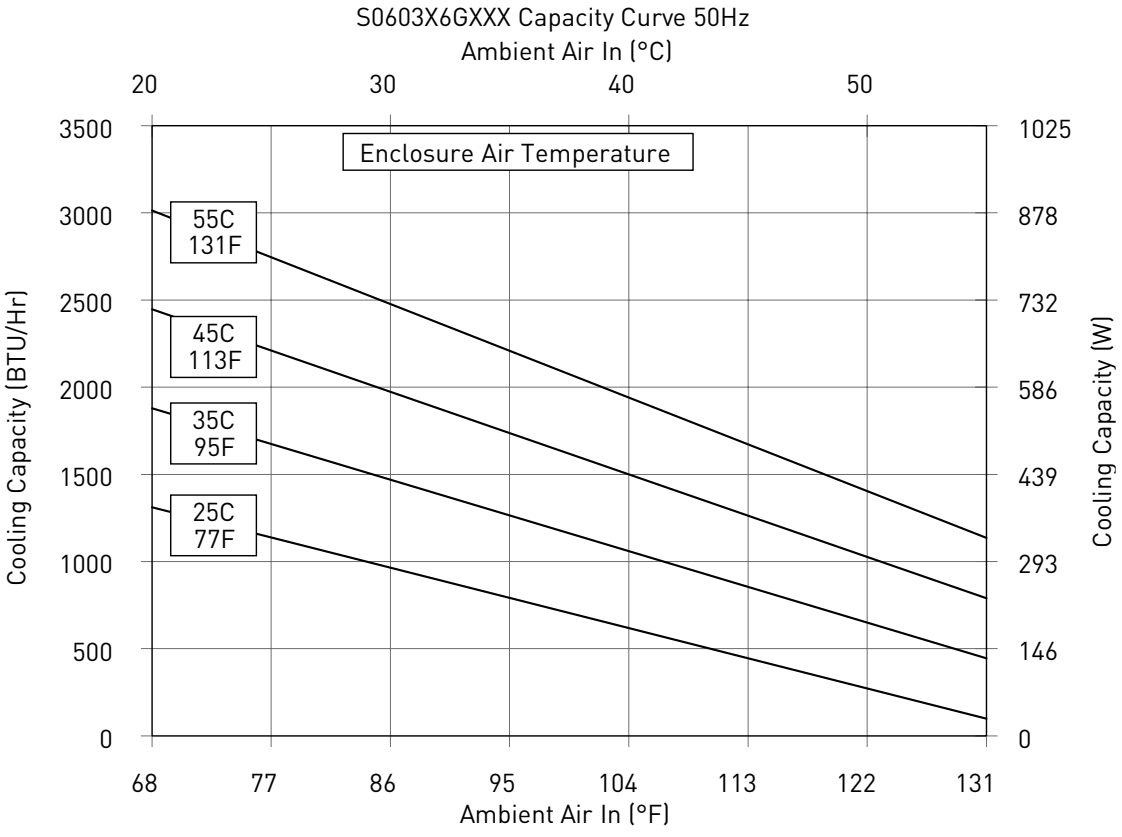
EtherNet/IP ODVA PI PROFIBUS • PROFINET

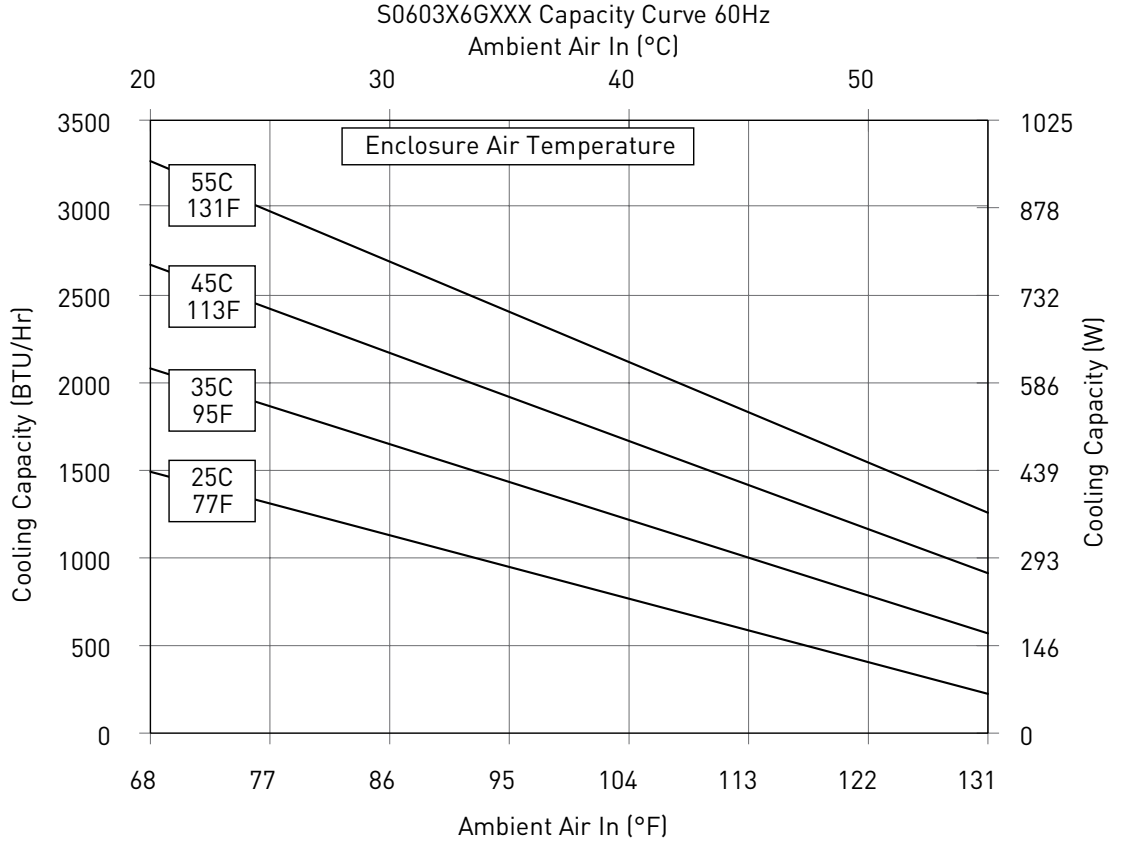
Performance Data **S06 1000/1700 BTU/Hr. (300/500 Watt)**

CATALOG NUMBER				
Indoor Model	S060316G050	S060326G050	S060516G050	S060526G050
Indoor Model with Remote Access Control*	S060316G060	S060326G060	S060516G060	S060526G060
COOLING PERFORMANCE				
Nominal:				
BTU/Hr.	**1000**	**1000**	**1700**	**1700**
Watts	**300**	**300**	**500**	**500**
At 95 F / 95 F (35 C / 35 C)				
BTU/Hr. (50/60 Hz)	1260/1430	1260/1430	1880/2190	1880/2190
W (50/60 Hz)	370/420	370/420	550/640	550/640
Refrigerant	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	4.7/133	4.5/128	5.7/162	5.7/162
Operating Temperature Range:				
Maximum (°F/°C)	125/52 (50 Hz) 131/55 (60 Hz)	131/55	131/55	131/55
Minimum (°F/°C)	50/10	50/10	50/10	50/10
Air Flow at 0 Static Pressure:				
Internal loop 50 Hz (CFM / m^3/hr.)	64/109	64/109	116/197	116/197
External loop 50 Hz (CFM / m^3/hr.)	76/129	76/129	111/189	111/189
Internal loop 60 Hz (CFM / m^3/hr.)	73/124	73/124	137/233	137/233
External loop 60 Hz (CFM / m^3/hr.)	92/156	92/156	129/219	129/219
ELECTRICAL DATA				
Rated Voltage	**110 / 115**	**230**	**115**	**230**
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (W)	270/300	300/320	450/470	450/480
Max. Nominal Current (A)	4.0/3.8	1.8/1.7	6.5/6.1	2.6/2.9
Starting Current (A)	13/13	6/6	21/20	9/10
Agency Approvals	UL/cUL Listed, CE, EAC			
Power Input Description	Terminal Block	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION				
UL Type	Type 12			
International Rating	IP54 internal loop IP34 external loop			
CONTROLLER				
Description	Smart controller with display			
Thermostat Location	Ambient Side			
Factory Thermostat Setting (°F/°C)	95 / 35			
SOUND LEVEL				
At 1.5 Meters	65 dB(A)	65 dB(A)	66 dB(A)	66 dB(A)
UNIT CONSTRUCTION				
Material	Galvanized Sheet Metal Standard			
Finish	Powder Coat Semi-textured RAL 7035 Light Gray Standard			
UNIT DIMENSIONS				
Height (in./mm)	21.6 / 550			
Width (in./mm)	11.0 / 280			
Depth (in./mm)	5.5 / 140	5.5 / 140	8.1 / 206	8.1 / 206
Weight (lb./kg)	28 /13	28 /13	33 /15	33 /15

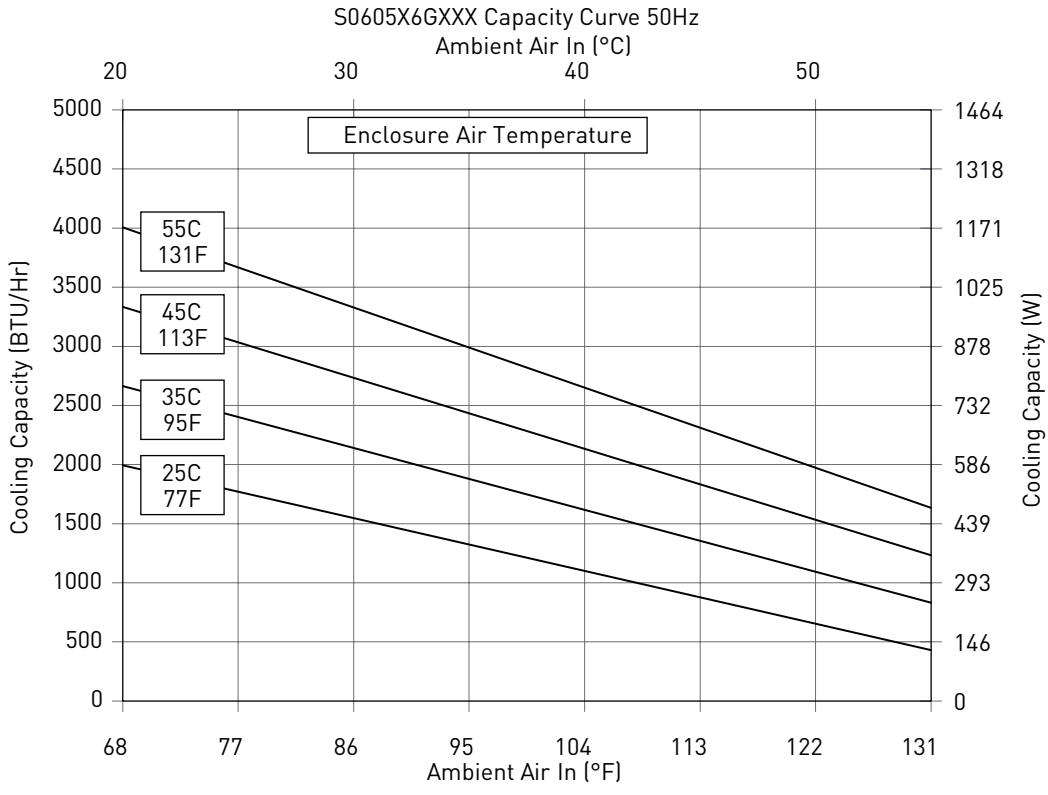
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

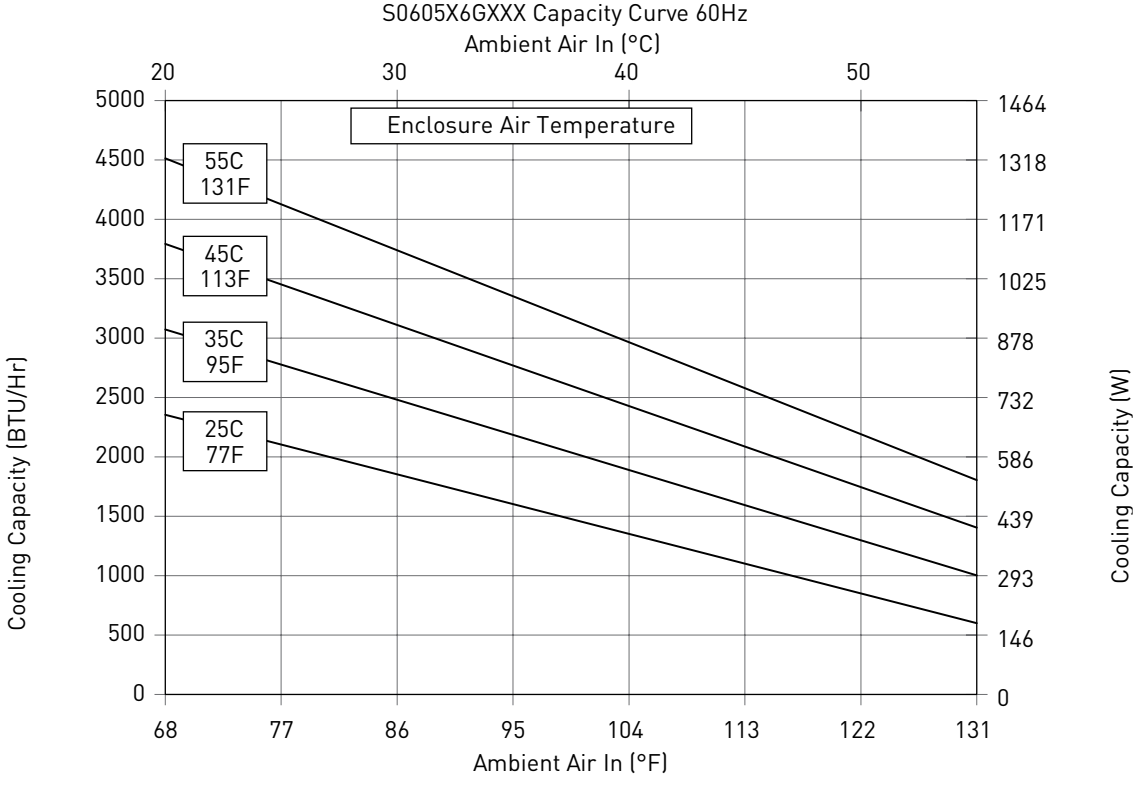
Performance Curves for S06 Models 1000 BTU/Hr. (300 Watt)



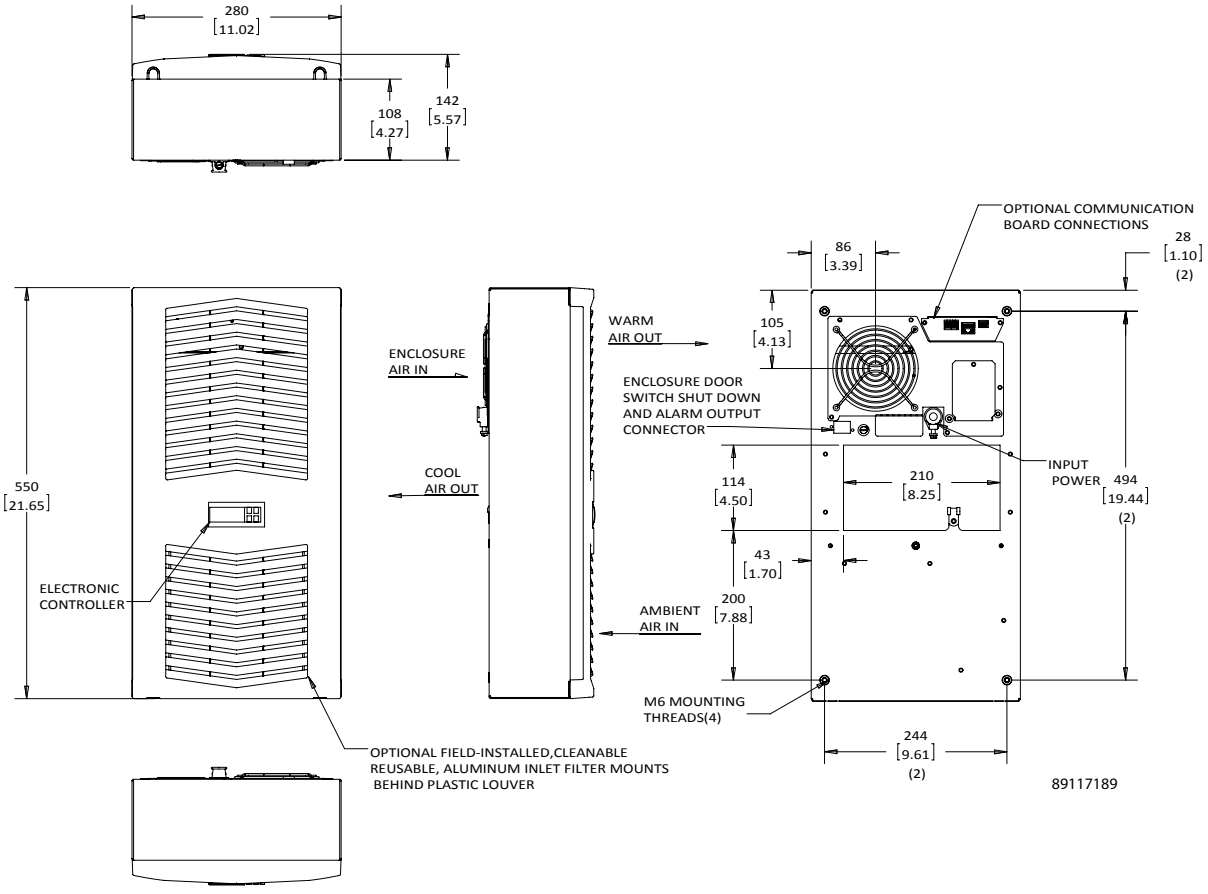


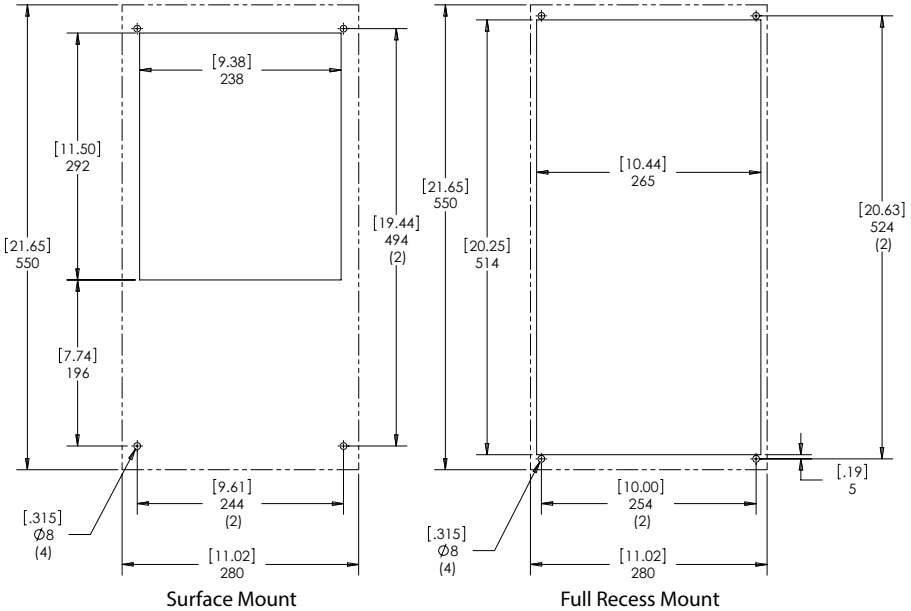
Performance Curves for S06 Models 1700 BTU/Hr. (500 Watt)





S06 Models 1000 BTU/Hr. (300 Watt)





Cutout Dimensions

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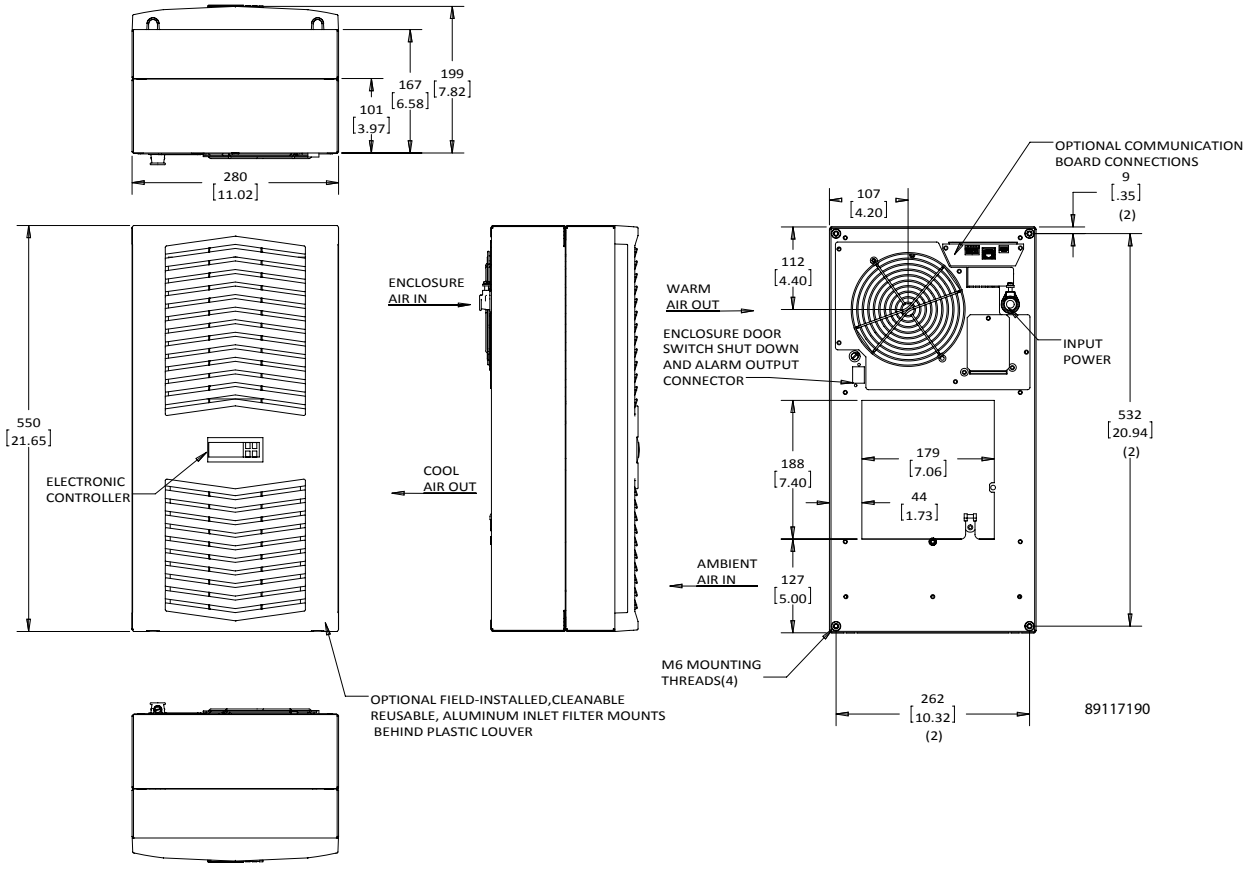
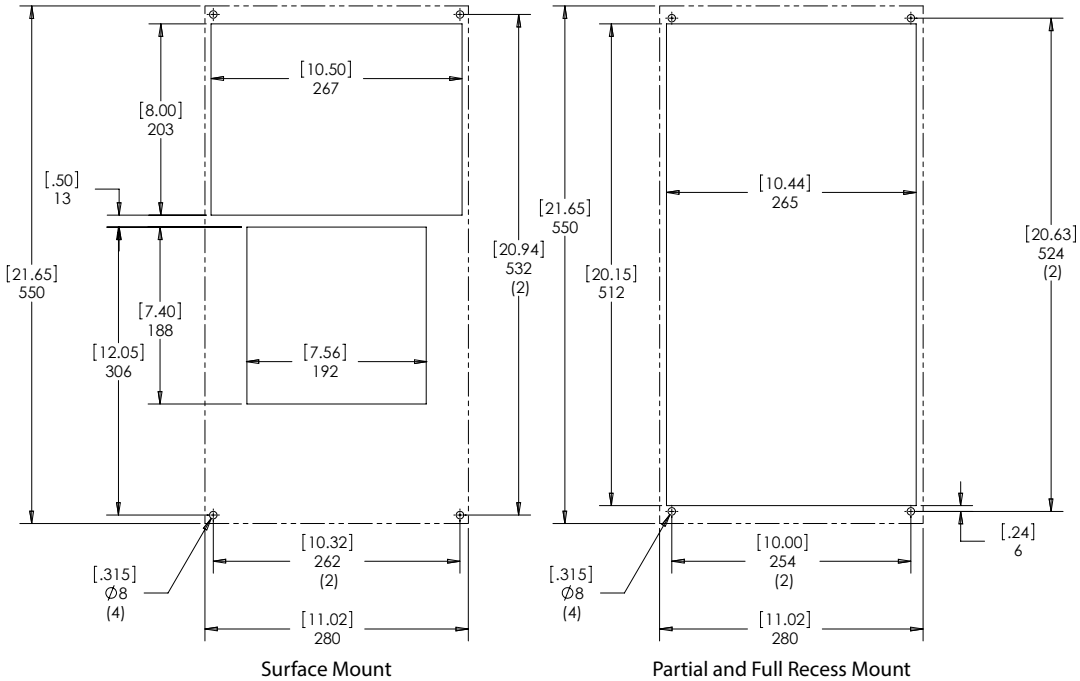
S06 Models 1700 BTU/Hr. (500 Watt)





Surface Mount

Partial and Full Recess Mount

Cutout Dimensions

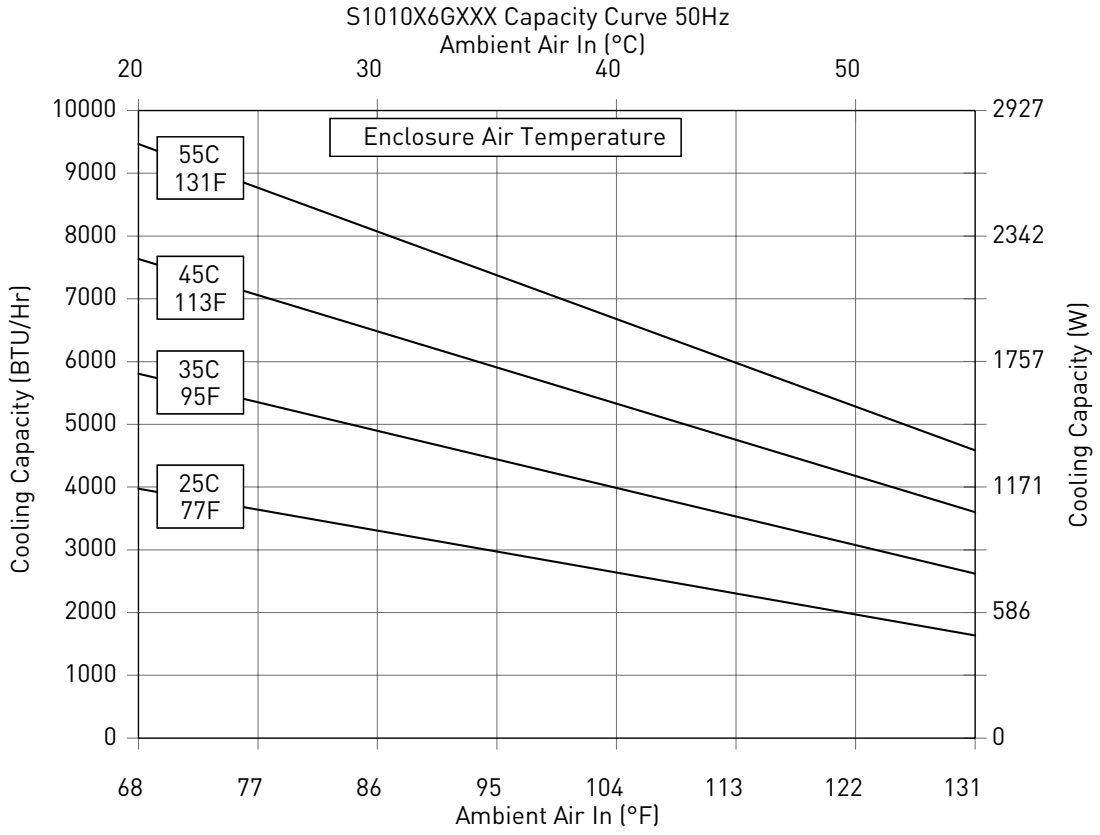
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

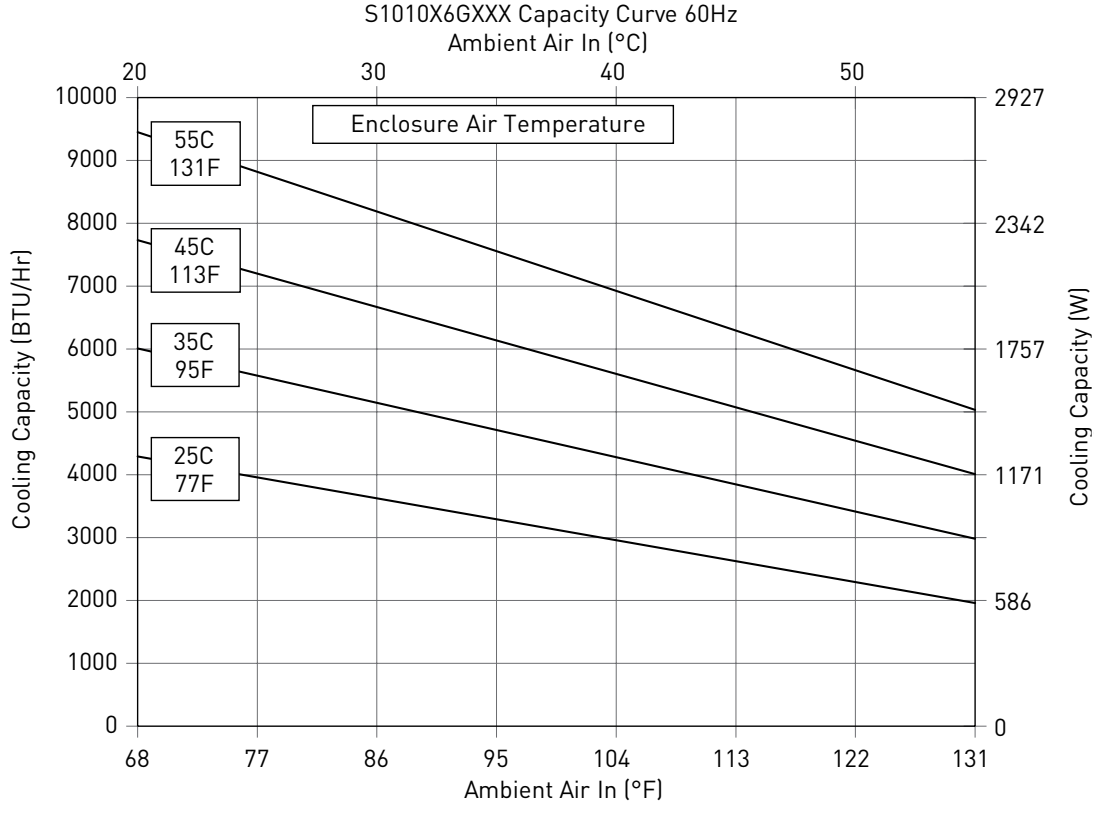
Performance Data **S10 3400/5000 BTU/Hr. (1000/1500 Watt)**

CATALOG NUMBER						
Indoor Model	S101016G050	S101026G050	S101046G050	S101516G050	S101526G050	S101546G050
Indoor Model with Remote Access Control*	S101016G060	S101026G060	S101046G060	S101516G060	S101526G060	S101546G060
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	3400	3400	3400	5000	5000	5000
Watts	1000	1000	1000	1500	1500	1500
At 95 F / 95 F (35 C / 35 C)						
BTU/Hr. (50/60 Hz)	4440/4710	4440/4710	4440/4710	6150/6420	6150/6420	6150/6420
W (50/60 Hz)	1300/1380	1300/1380	1300/1380	1800/1880	1800/1880	1800/1880
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	10/283	10/283	10/283	15/425	15/425	18/510
Operating Temperature Range:						
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55
Minimum (°F/°C)	50/10	50/10	50/10	50/10	50/10	50/10
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	206/350	206/350	206/350	201/342	201/342	201/342
External loop 50 Hz (CFM / m^3/hr.)	334/567	334/567	334/567	339/576	339/576	339/576
Internal loop 60 Hz (CFM / m^3/hr.)	230/391	230/391	230/391	230/391	230/391	230/391
External loop 60 Hz (CFM / m^3/hr.)	344/584	344/584	344/584	341/579	341/579	341/579
ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**400 / 460 1~**	**115**	**230**	**400 / 460 3~**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (W)	810/1010	670/800	750/960	850/1040	850/1040	930/1130
Max. Nominal Current (A)	9.6/10.2	4.1/5.5	2.1/2.4	9.6/10.2	5.1/6.7	2.1/2.4
Starting Current (A)	32/34	14/18	7/8	32/34	17/22	7/8
Agency Approvals	UL/cUL Listed, CE, EAC					
Power Input Description	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION						
UL Type	Type 12					
International Rating	IP54 internal loop IP34 external loop					
CONTROLLER						
Description	Smart controller with display					
Thermostat Location	Ambient Side					
Factory Thermostat Setting (°F/°C)	95 / 35					
SOUND LEVEL						
At 1.5 Meters	69 dB(A)	69 dB(A)	69 dB(A)	70dB(A)	70dB(A)	70dB(A)
UNIT CONSTRUCTION						
Material	Galvanized Sheet Metal Standard					
Finish	Powder Coat Semi-textured RAL 7035 Light Gray Standard					
UNIT DIMENSIONS						
Height (in./mm)	37.4 / 950					
Width (in./mm)	15.7 / 400					
Depth (in./mm)	10.2 / 259					
Weight (lb./kg)	86/39	86/39	99/45	95/43	95/43	95/43

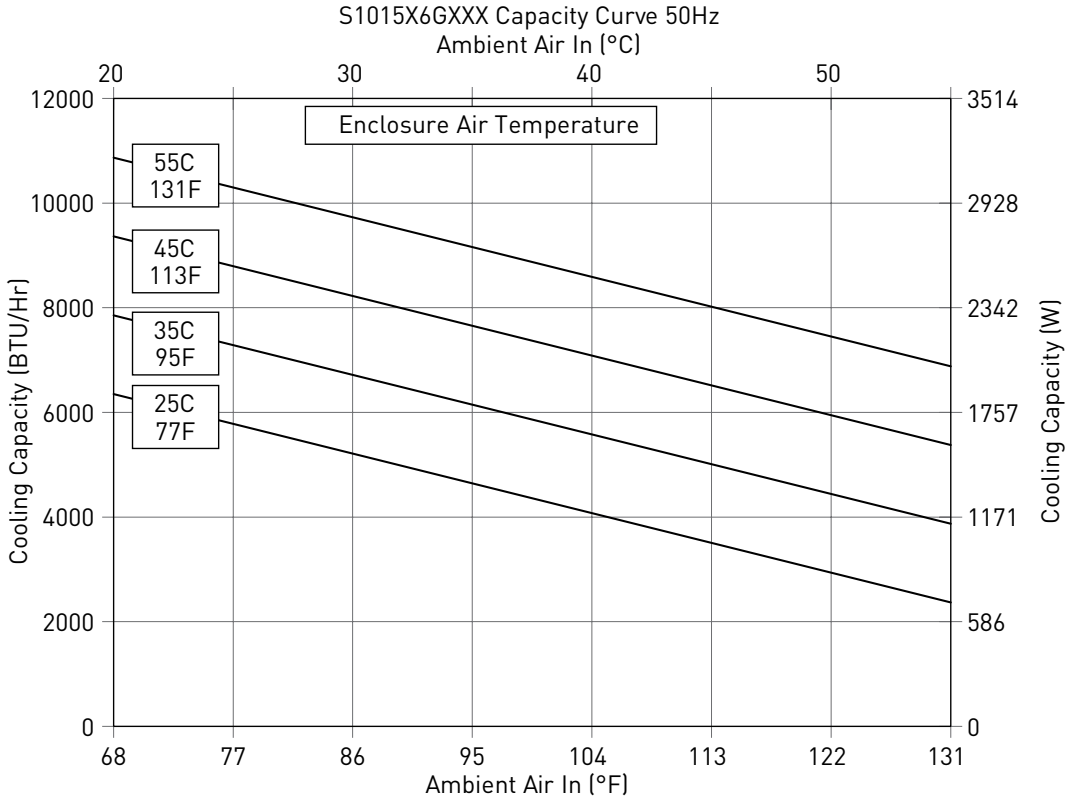
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

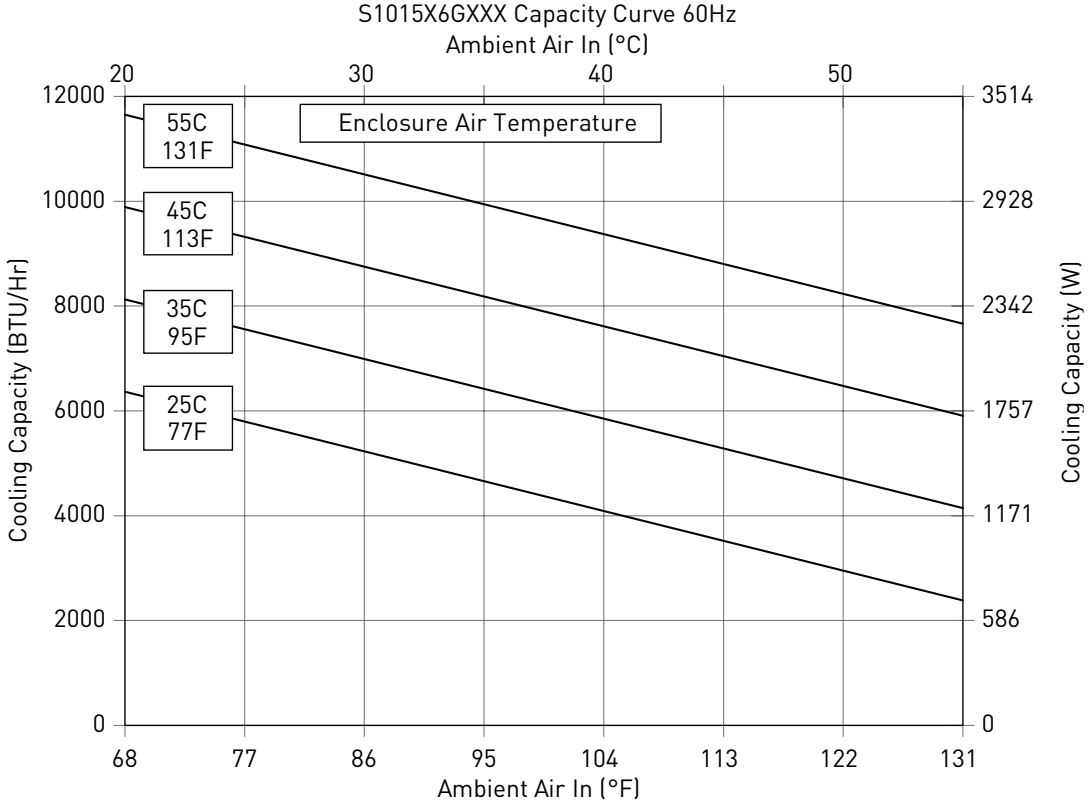
Performance Curves for S10 Models 3400 BTU/Hr. (1000 Watt)



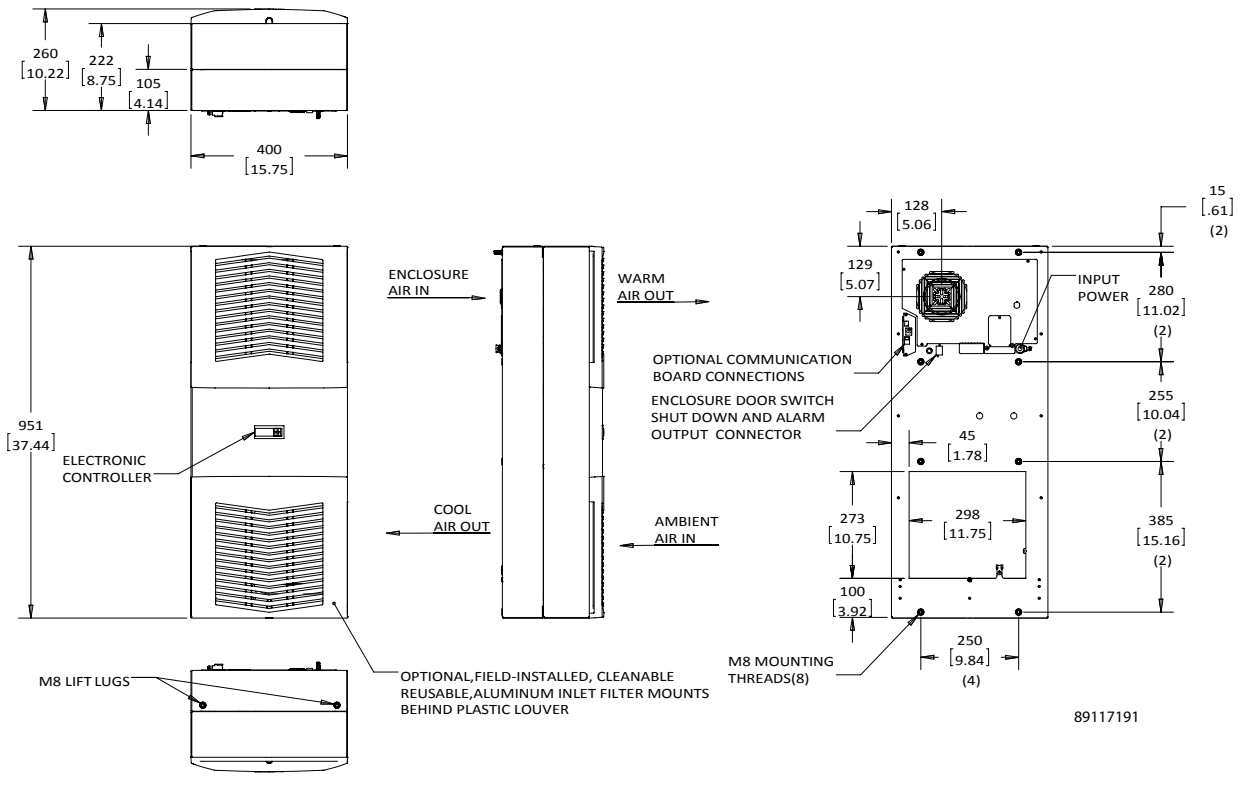


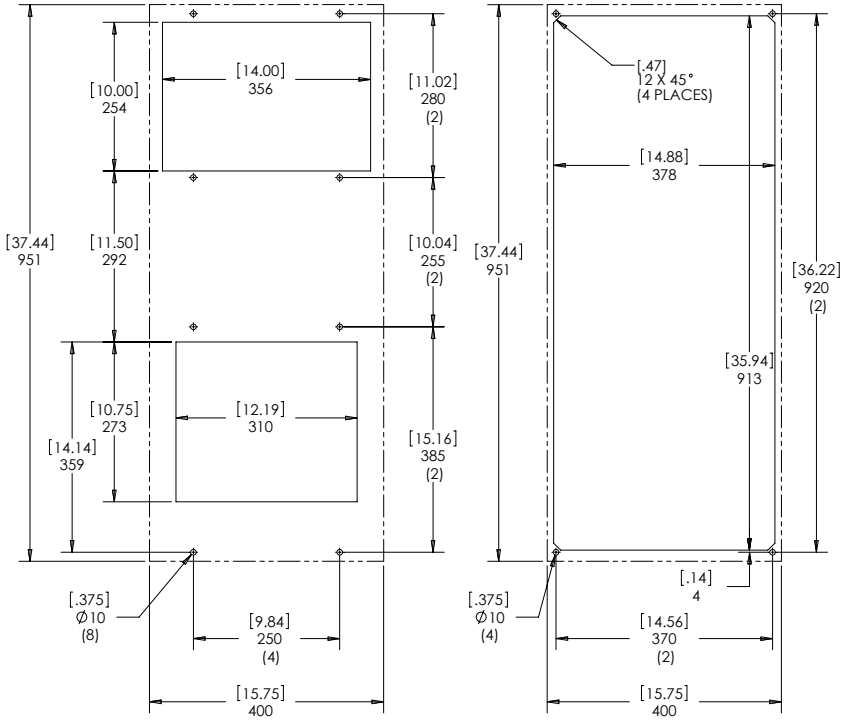
Performance Curves for S10 Models 5000 BTU/Hr. (1500 Watt)





S10 Models 3400/5000 BTU/Hr. (1000/1500 Watt)





Surface Mount | Partial and Full Recess Mount

Cutout Dimensions

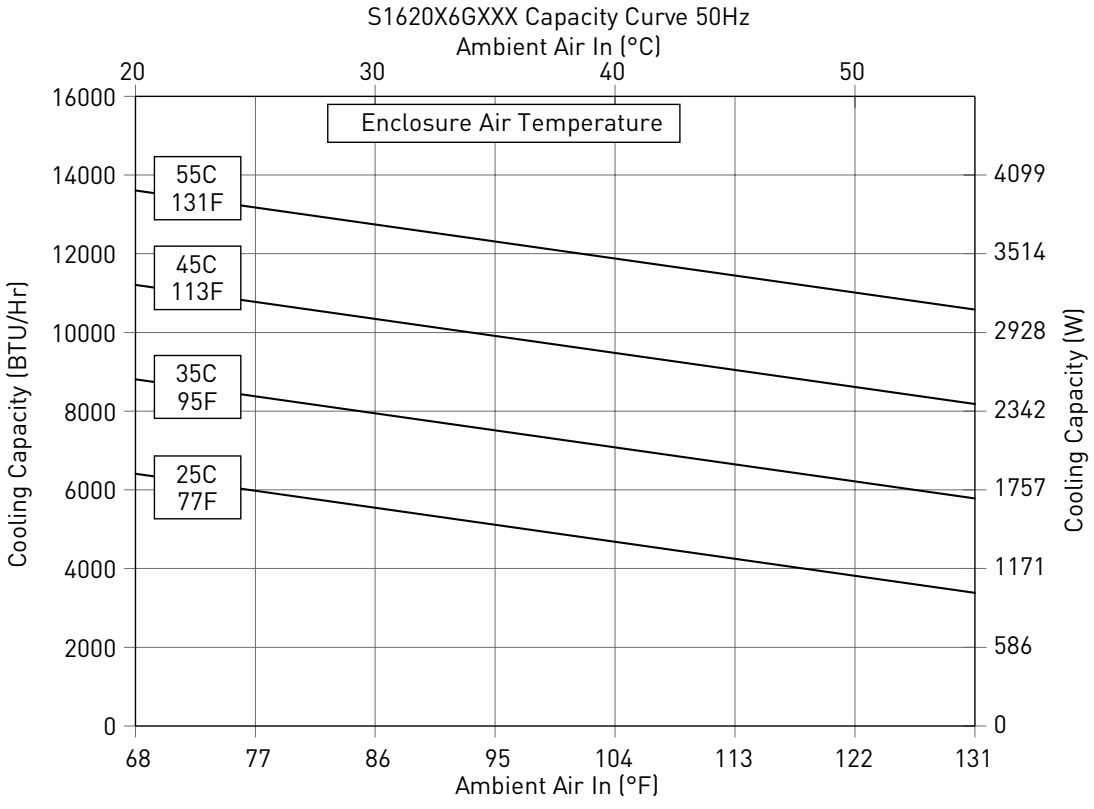
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

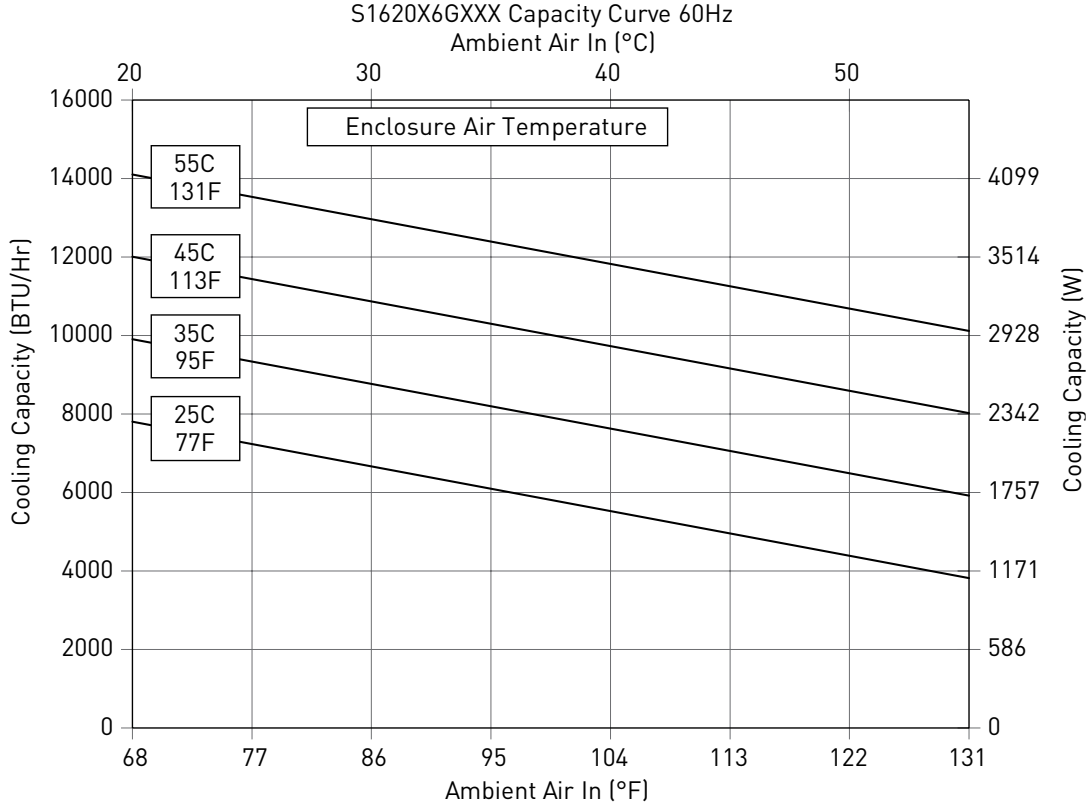
Performance Data **S16 6800/8500/13500 BTU/Hr. (2000/2500/4000 Watt)**

CATALOG NUMBER							
Indoor Model	S162016G050	S162026G050	S162046G050	S162516G050	S162526G050	S162546G050	S164046G050
Indoor Model with Remote Access Control*	S162016G060	S162026G060	S162046G060	S162516G060	S162526G060	S162546G060	S164046G060
COOLING PERFORMANCE							
Nominal:							
BTU/Hr.	6800	6800	6800	8500	8500	8500	13500
Watts	2000	2000	2000	2500	2500	2500	4000
At 95 F / 95 F (35 C / 35 C)							
BTU/Hr. (50/60 Hz)	7510/8200	7510/8200	7510/8200	9150/9560	9150/9560	9150/9560	13700/15400
W (50/60 Hz)	2200/2400	2200/2400	2200/2400	2680/2800	2680/2800	2680/2800	4000/4500
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	25/709	25/709	25/709	26/737	26/737	30/850	44/1247
Operating Temperature Range:							
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55	131/55
Minimum (°F/°C)	50/10	50/10	50/10	50/10	50/10	50/10	50/10
Air Flow at 0 Static Pressure:							
Internal loop 50 Hz (CFM / m^3/hr.)	267/454	267/454	267/454	263/447	263/447	263/447	291/494
External loop 50 Hz (CFM / m^3/hr.)	373/634	373/634	373/634	650/1104	650/1104	650/1104	630/1070
Internal loop 60 Hz (CFM / m^3/hr.)	285/484	285/484	285/484	274/466	274/466	274/466	339/576
External loop 60 Hz (CFM / m^3/hr.)	385/654	385/654	385/654	673/1143	673/1143	673/1143	697/1184
ELECTRICAL DATA							
Rated Voltage	**115**	**230**	**400 / 460 3~**	**115**	**230**	**400 / 460 3~**	**400 / 460 3~**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (W)	930/1090	940/1140	900/1180	1230/1420	1320/1650	1150/1510	1790/2310
Max. Nominal Current (A)	11.1/12.5	5.7/7.2	2.2/2.6	16.1/16.9	8.0/10.1	3.2/3.4	4.2/4.4
Starting Current (A)	37/41	19/24	7/9	53/56	26/33	11/11	14/15
Agency Approvals	UL/cUL Listed, CE, EAC						
Power Input Description	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION							
UL Type	Type 12						
International Rating	IP54 internal loop IP34 external loop						
CONTROLLER							
Description	Smart controller with display						
Thermostat Location	Ambient Side						
Factory Thermostat Setting (°F/°C)	95 / 35						
SOUND LEVEL							
At 1.5 Meters	67 dB(A)	67 dB(A)	67 dB(A)	71 dB(A)	71 dB(A)	71 dB(A)	70 dB(A)
UNIT CONSTRUCTION							
Material	Galvanized Sheet Metal Standard						
Finish	Powder Coat Semi-textured RAL 7035 Light Gray Standard						
UNIT DIMENSIONS							
Height (in./mm)	62.2/1580						
Width (in./mm)	15.7/400	15.7/400	15.7/400	15.7/400	15.7/400	15.7/400	19.7/500
Depth (in./mm)	11.6/295	11.6/295	11.6/295	11.6/295	11.6/295	11.6/295	13.4/340
Weight (lb./kg)	150/68	150/68	150/68	154/70	154/70	154/70	203/92

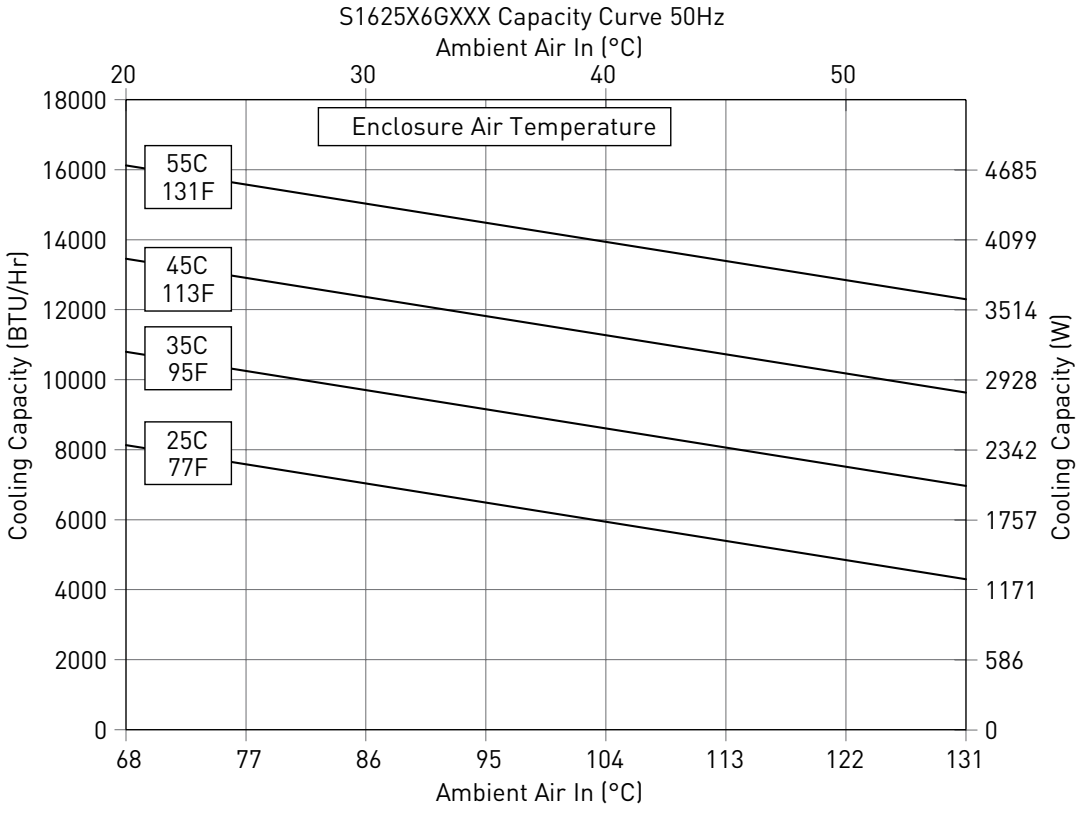
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

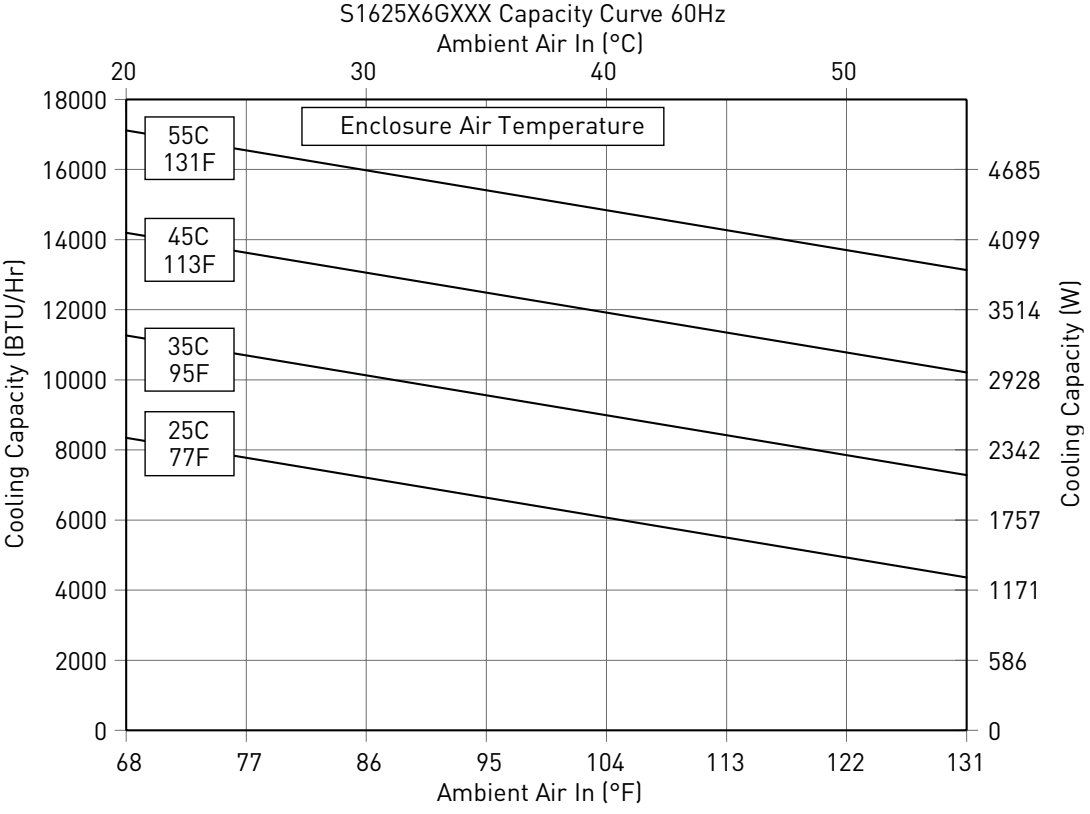
Performance Curves for S16 Models 6800 BTU/Hr. (2000 Watt)



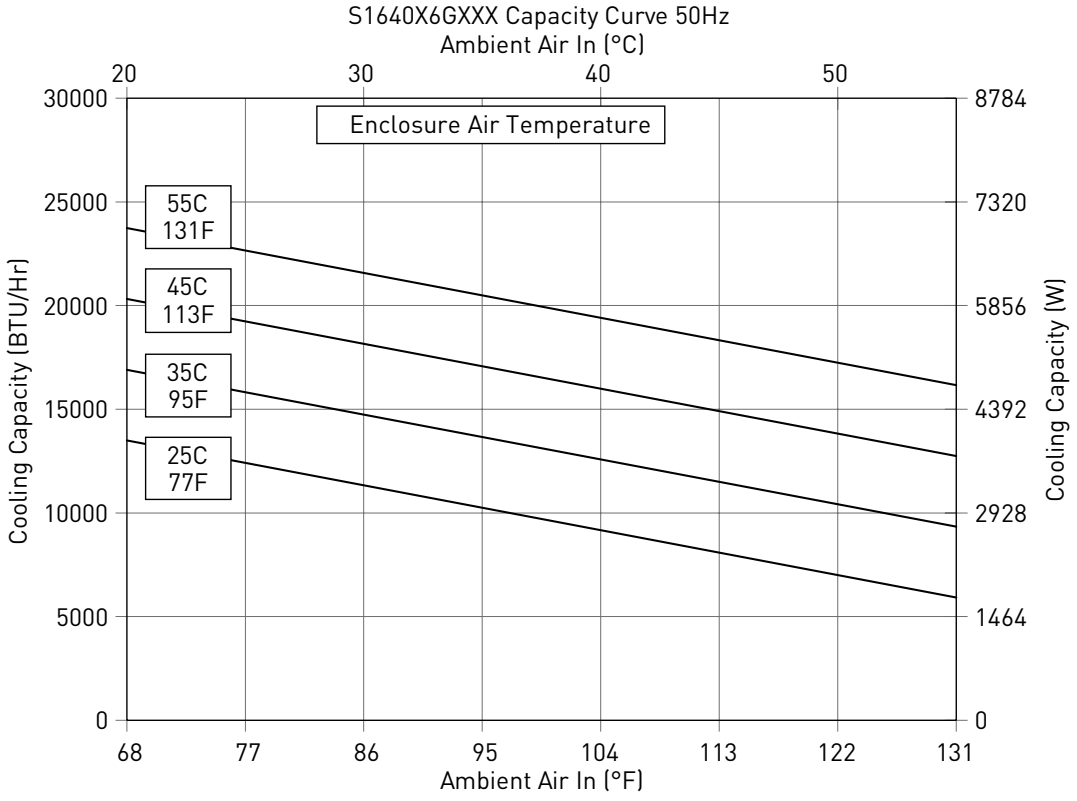


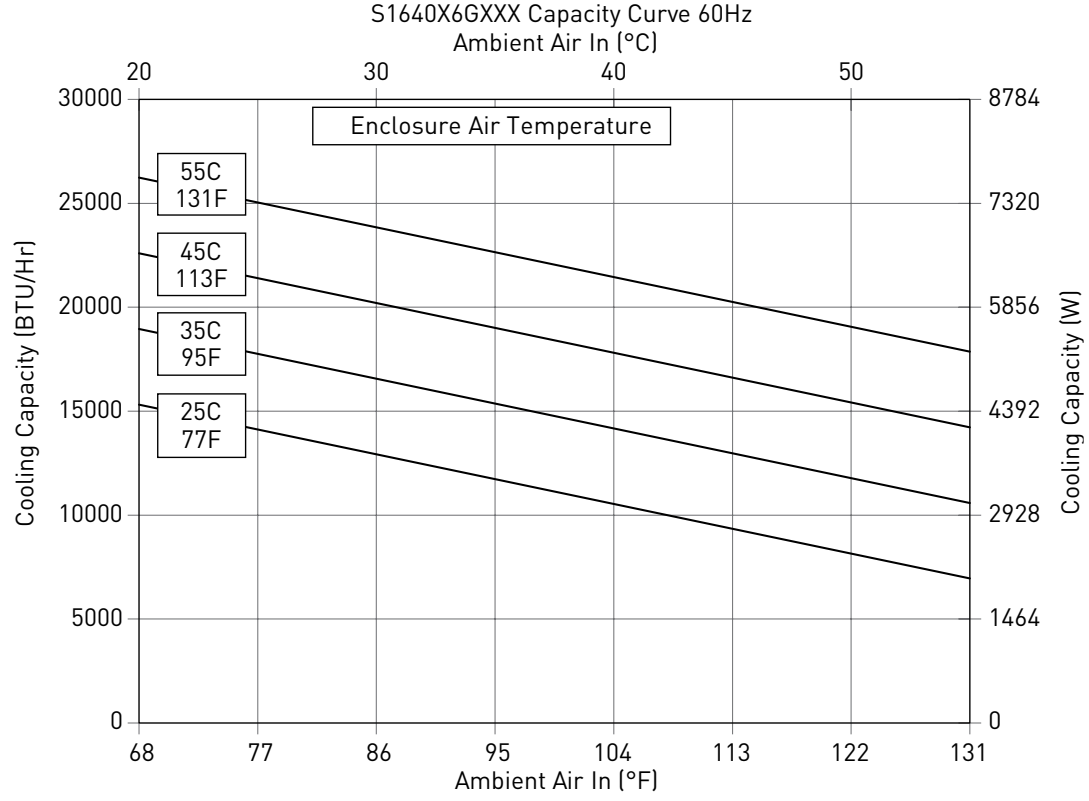
Performance Curves for S16 Models 8500 BTU/Hr. (2500 Watt)



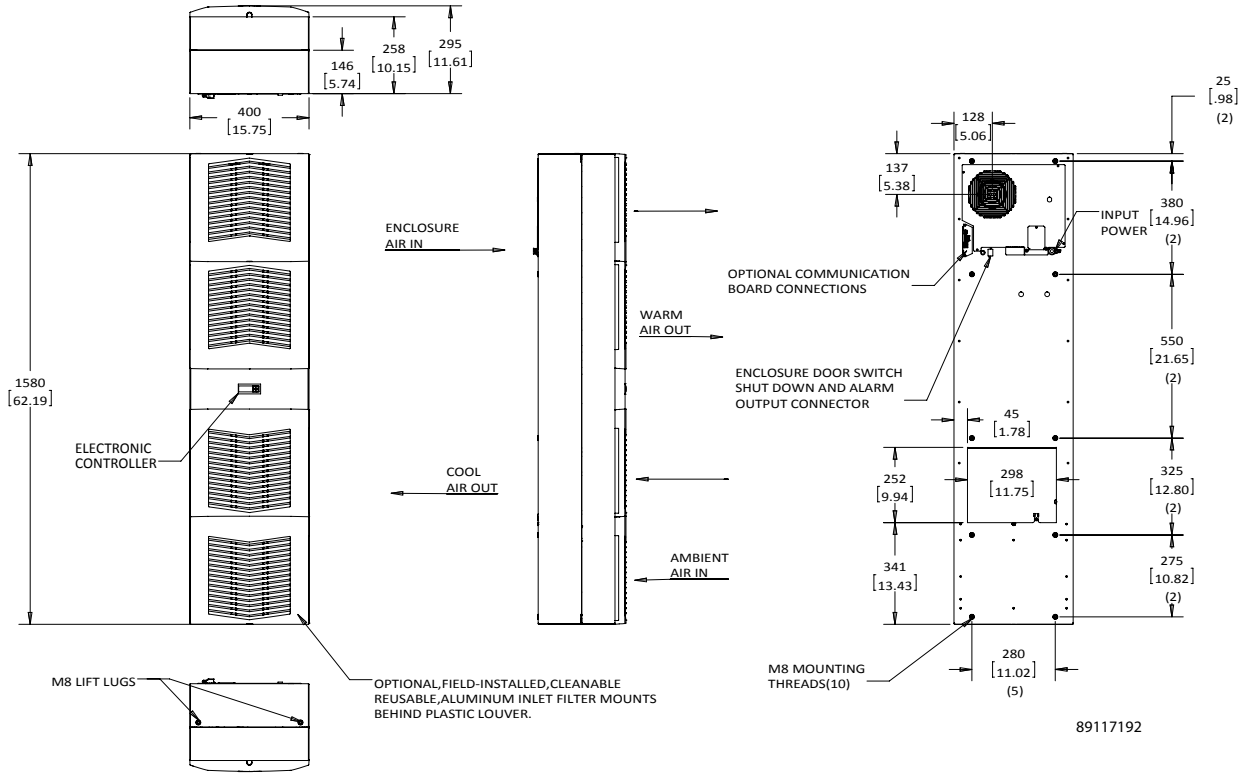


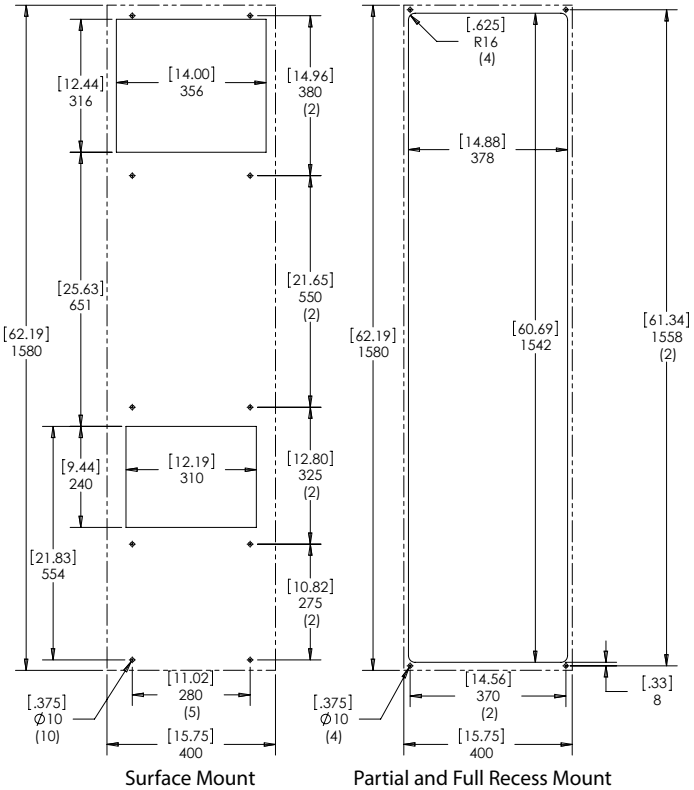
Performance Curves for S16 Models 13500 BTU/Hr. (4000 Watt)





S16 Models 6800/8500 BTU/Hr. (2000/2500 Watt)





Surface Mount Partial and Full Recess Mount

Cutout Dimensions

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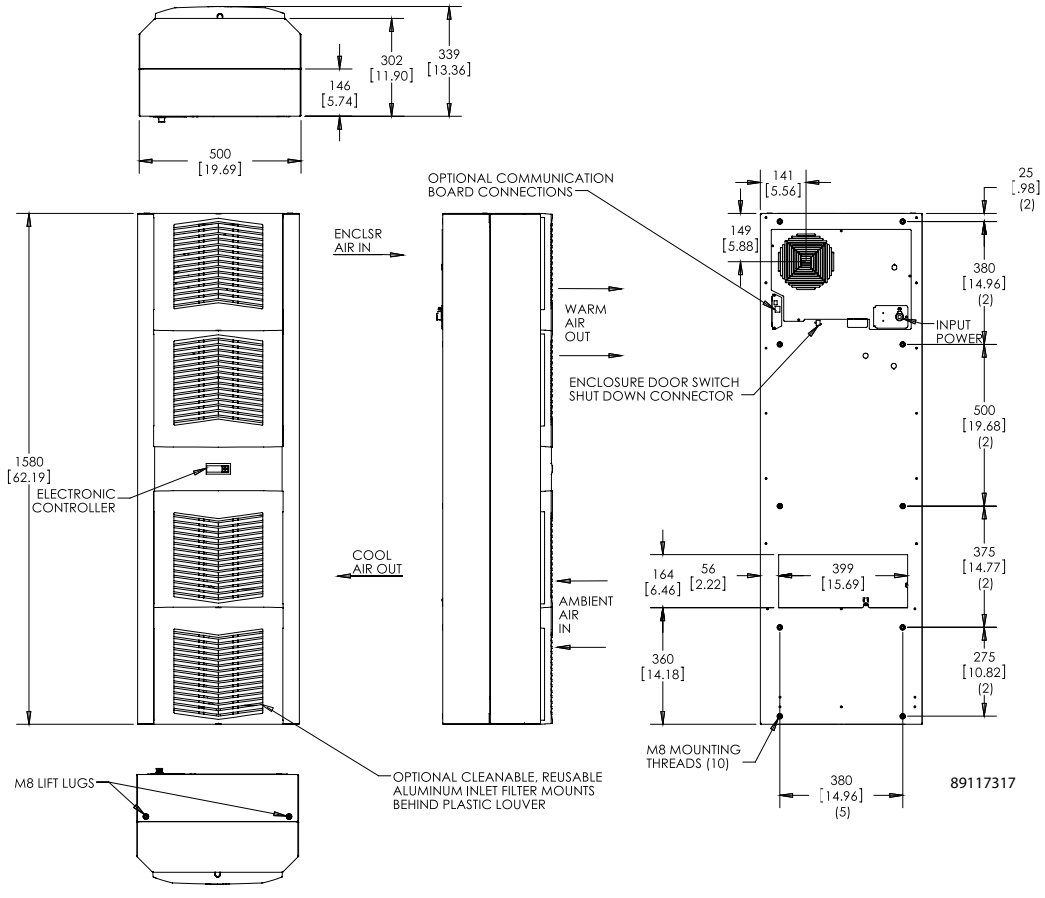
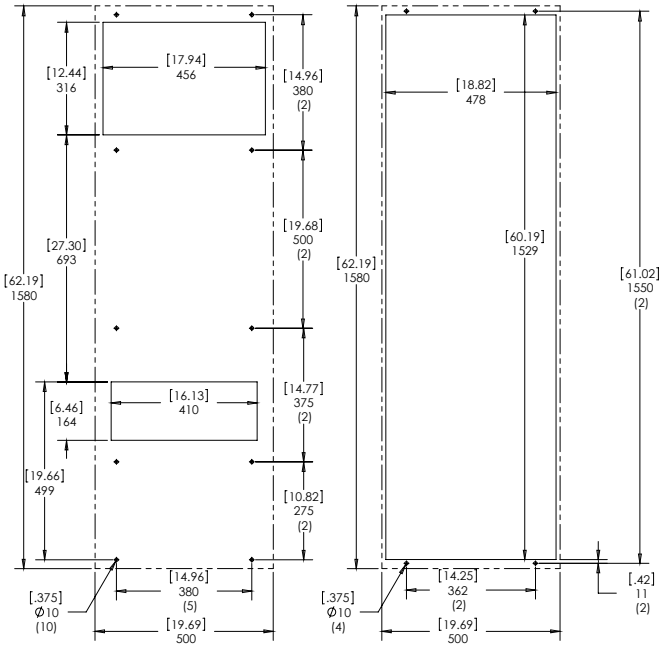
S16 Models 13500 BTU/Hr. (4000 Watt)





Surface Mount Partial Recess Mount

Cutout Dimensions

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SPECTRACOOL NARROW COMPACT INDOOR

N16 115/230 Volt
800 BTU/Hr.
234 Watt

N21 115/230 Volt
2000 BTU/Hr.
586 Watt

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4, 4X optional; File No. SA6453
UR/cUR Recognized on select models for N16 and N21

CE
IP 54 Internal Loop
IP 34 External Loop
EAC
Telcordia GR-487 capable
Reference performance data tables for agency approvals applied to each model.

APPLICATION

- Industrial automation
- Package handling equipment
- Security and defense systems

FEATURES

- Narrow design accommodates 12-in. deep cabinets
- R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 VAC power input
- UL Listed to save customers time and money with agency approvals
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat is located behind the cover of the unit; Air Conditioner models include digital display on ambient side
- Galvanized sheet-metal cover for rugged factory environments
- Easy-mount flanges for simple installation
- Cutout adapter options for enclosures with GENESIS air conditioners enable users to easily transition to the new unit
- Dust-resistant condenser coil allows the unit to be run filterless in most applications
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Active condensate management
  - Power-off relay for door switch and other system requirements
  - Malfunction switch

SPECIFICATIONS

- Nominal cooling capacity:
  N16 800 BTU/Hr. (234 W)
  N21 2000 BTU/Hr. (586 W)
- Operating temperature range from 50 F/10 C to 125 F/52 C

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

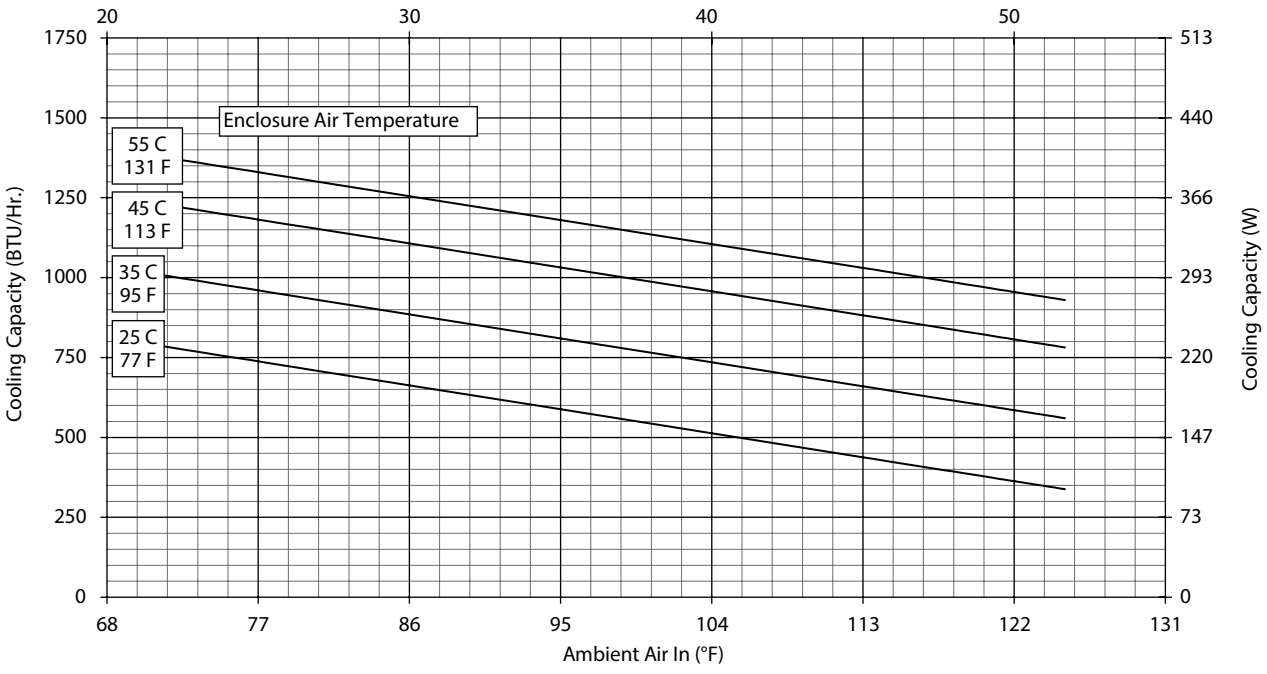
Performance Data **N16 800 BTU/Hr. (234 Watt) Models**

CATALOG NUMBER		
Indoor Model	N160116G050	N160126G050
Indoor Model Stainless Steel Type 4X	N160116G051	N160126G051
Indoor Model with Remote Access Control*	N160116G060	N160126G060
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**800/800**	**800/900**
Watts	**235/235**	**235/264**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	819	920/960
W (50/60 Hz)	240	270/281
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	948	810/955
W (50/60 Hz)	278	237/280
Refrigerant	R134A	R134A
Refrigerant Charge (ounces/grams)	4/113	3.8/107
Operating Temperature Range:		
Maximum (ºF/ºC)	131/55	125/131/52/55
Minimum (ºF/ºC)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	25/42	25/42
External loop 50 Hz (CFM / m^3/hr.)	48/82	48/82
Internal loop 60 Hz (CFM / m^3/hr.)	30/51	30/51
External loop 60 Hz (CFM / m^3/hr.)	53/90	53/90
Max. Heater W (Outdoor Models)	150	150
ELECTRICAL DATA		
Rated Voltage	**100/115**	**220/230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	360/403	330/345
Max. Nominal Current (A at 50/60 Hz)	3.6/3.5	1.5/1.5
Starting Current (A)	8.0/9.2	3.3/3.1
Agency Approvals	cUL Listed CE EAC Others available upon request	
Power Input Description	Terminal Block	Terminal Block
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure behind front panel	
Factory Thermostat Setting (ºF/ºC)	80/27	
SOUND LEVEL		
At 1.5 Meters	63 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	16.51/419	
Width (in./mm)	7.52/191	
Depth (in./mm)	6.30/160	
Weight (lb./kg)	27/12	

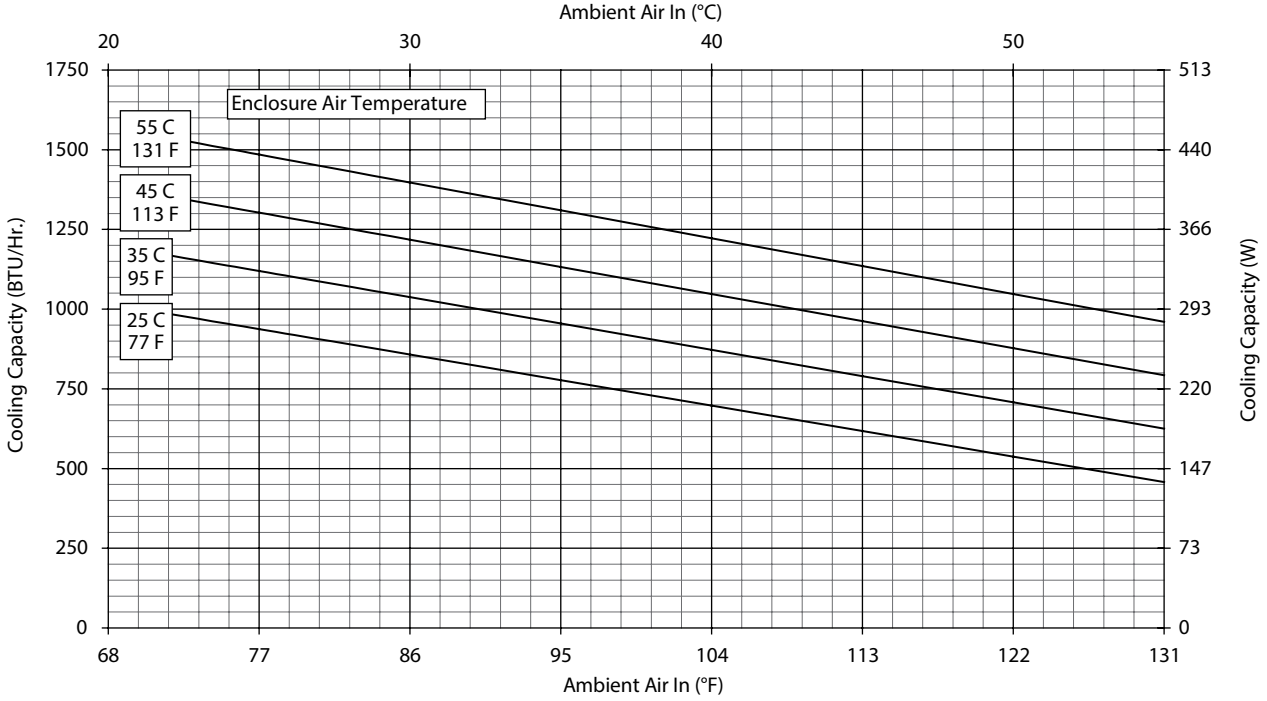
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for N16 Models 800 BTU/Hr. (234 Watt)

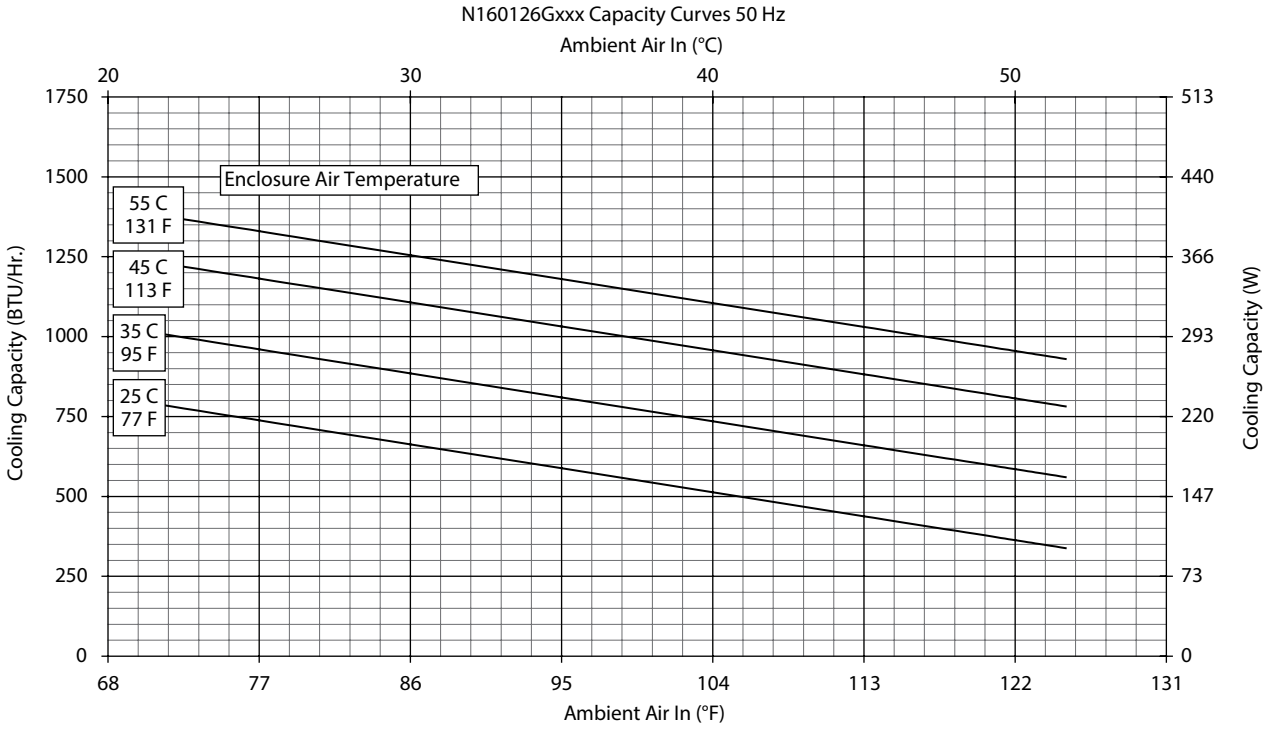
N160116Gxxx Capacity Curves 50 Hz

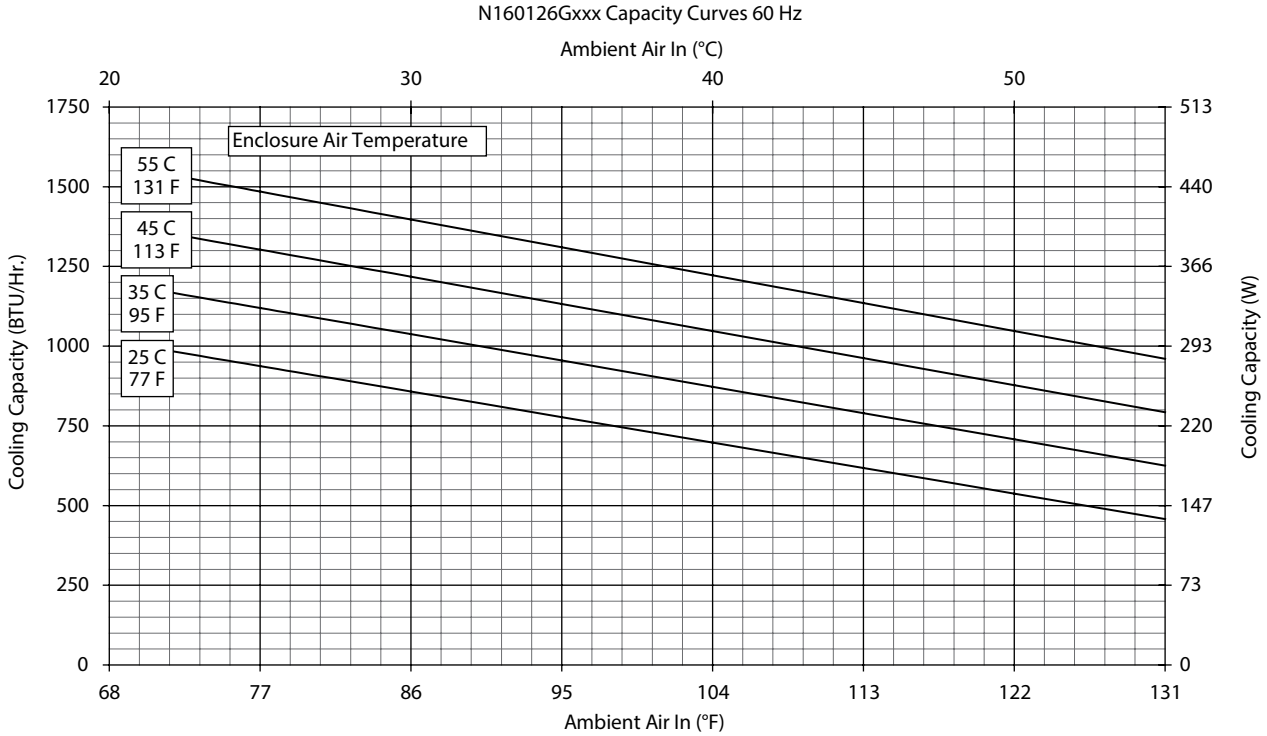


N160116Gxxx Capacity Curves 60 Hz

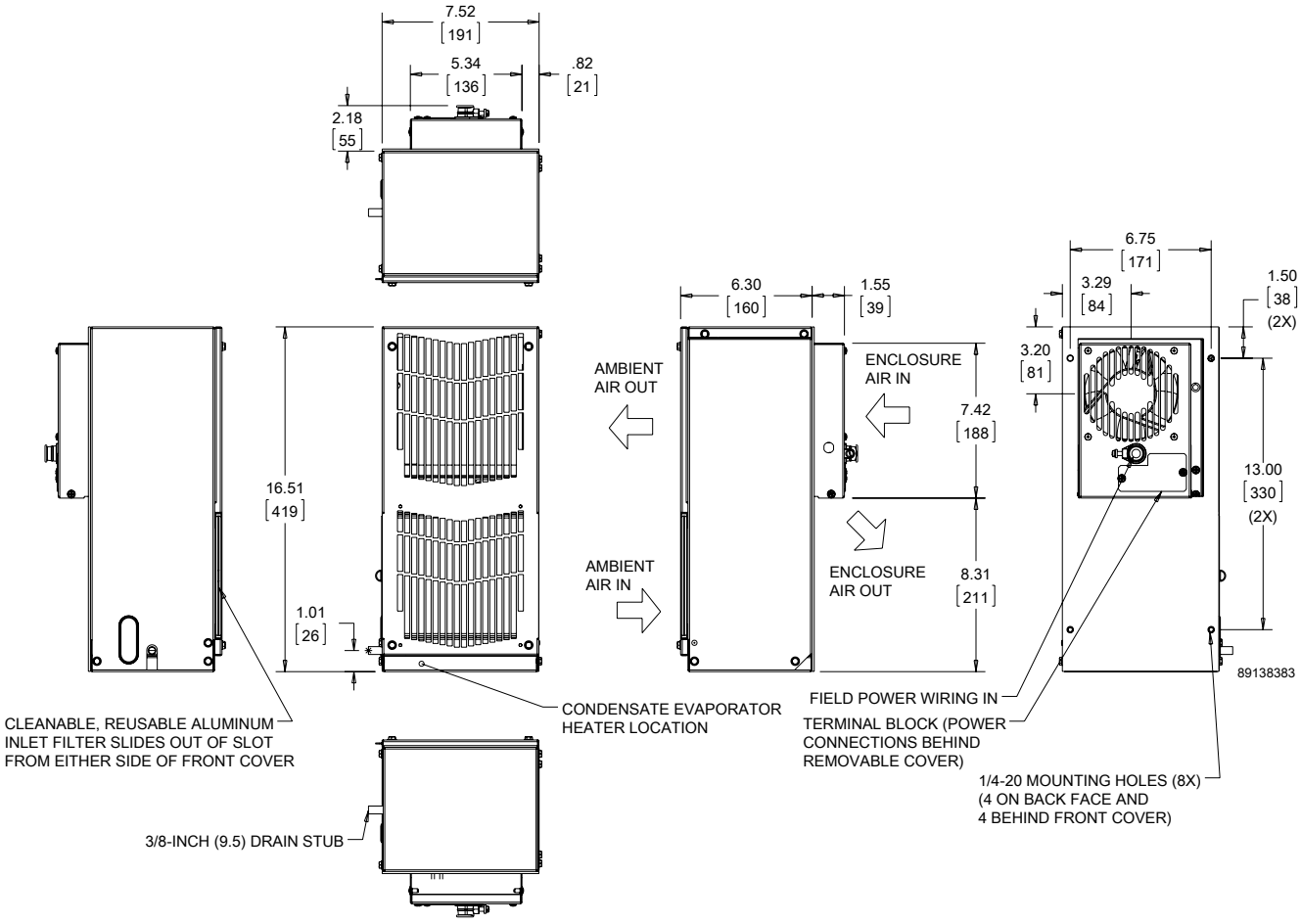


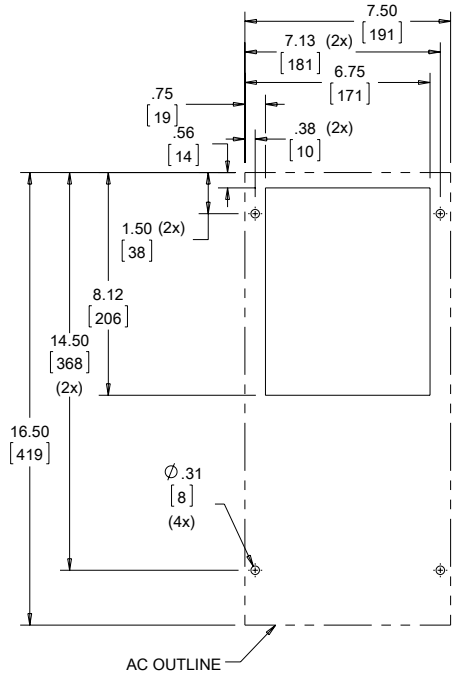
Performance Curves for N16 Models 800 BTU/Hr. (234 Watt)





N16 800 BTU/Hr. (234 Watt)





Cutout Dimensions
(Externally Mounted)

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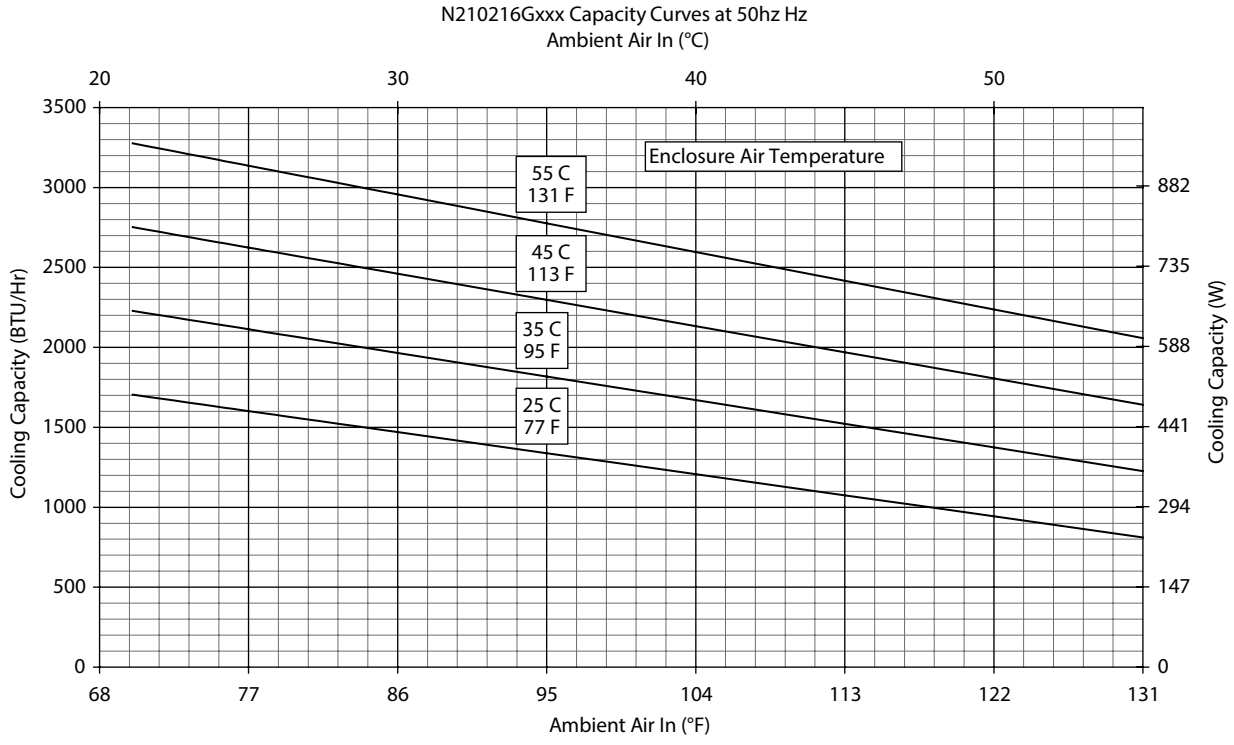
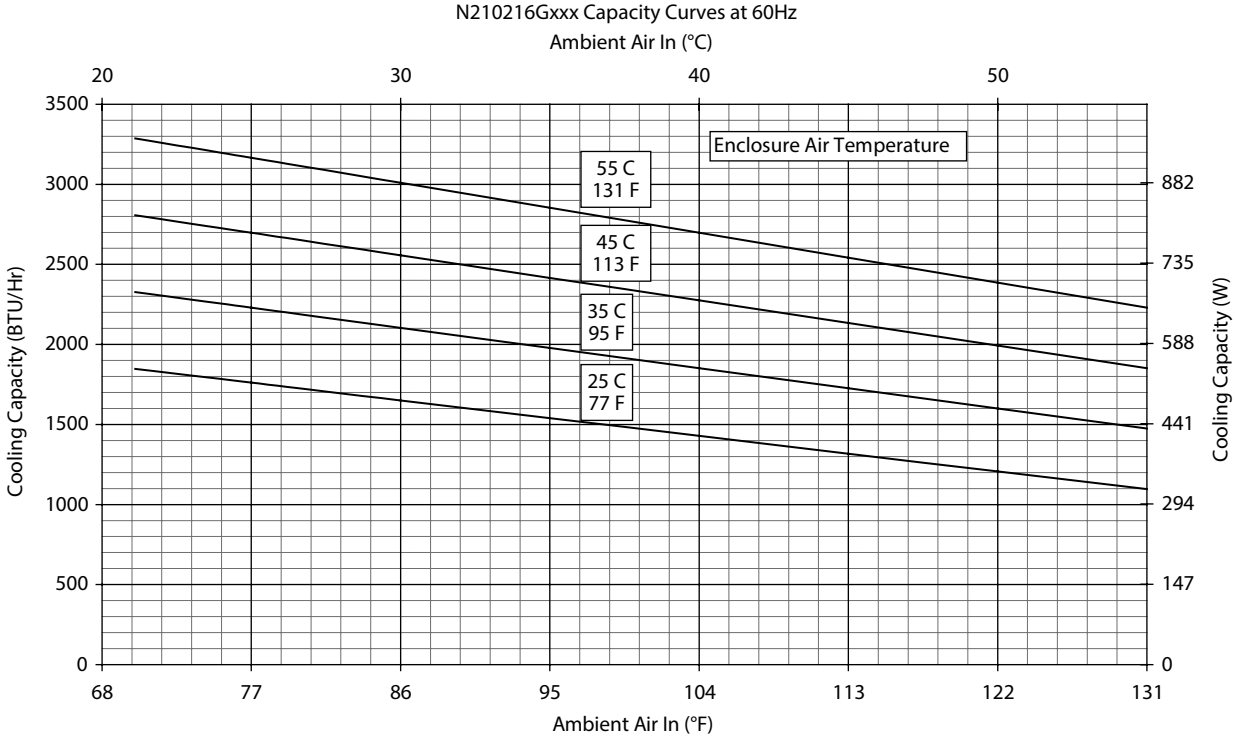
Performance Data **N21 2000 BTU/Hr. (586 Watt) Models**

CATALOG NUMBER			
Indoor Model	N210216G050	N210226G050	N210246G050
Indoor Model Stainless Steel Type 4X	N210216G051	N210226G051	N210246G051
Indoor Model with Remote Access Control*	N210216G060	N210226G060	N210246G060
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**1800/2000**	**1800/2000**	**1800/2000**
Watts	**528/586**	**528/586**	**528/586**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	2000/2175	2000/2175	2000/2175
W (50/60 Hz)	586/637	586/637	586/637
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50/60 Hz)	1950/2200	1950/2200	1950/2200
W (50/60 Hz)	571/645	571/645	571/645
Refrigerant	R134A	R134A	R134A
Refrigerant Charge (ounces/grams)	6.5/184	6.5/184	6.5/184
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	77/131	77/131	77/131
External loop 50 Hz (CFM / m^3/hr.)	150/255	150/255	150/255
Internal loop 60 Hz (CFM / m^3/hr.)	91/155	91/155	91/155
External loop 60 Hz (CFM / m^3/hr.)	165/280	165/280	165/280
Max. Heater W (Outdoor Models)	500	500	500
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	700/805	805	874
Max. Nominal Current (A at 50/60 Hz)	7.0/7.0	3.5/3.5	1.9
Starting Current (A)	19	7.6	7.2
Agency Approvals	cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	66 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available		
UNIT DIMENSIONS			
Height (in./mm)	20.92/531	20.92/531	25.17/614
Width (in./mm)	10.00/254	10.00/254	10.00/254
Depth (in./mm)	9.90/251	9.90/251	9.90/251
Weight (lb./kg)	56/25	56/25	66/30

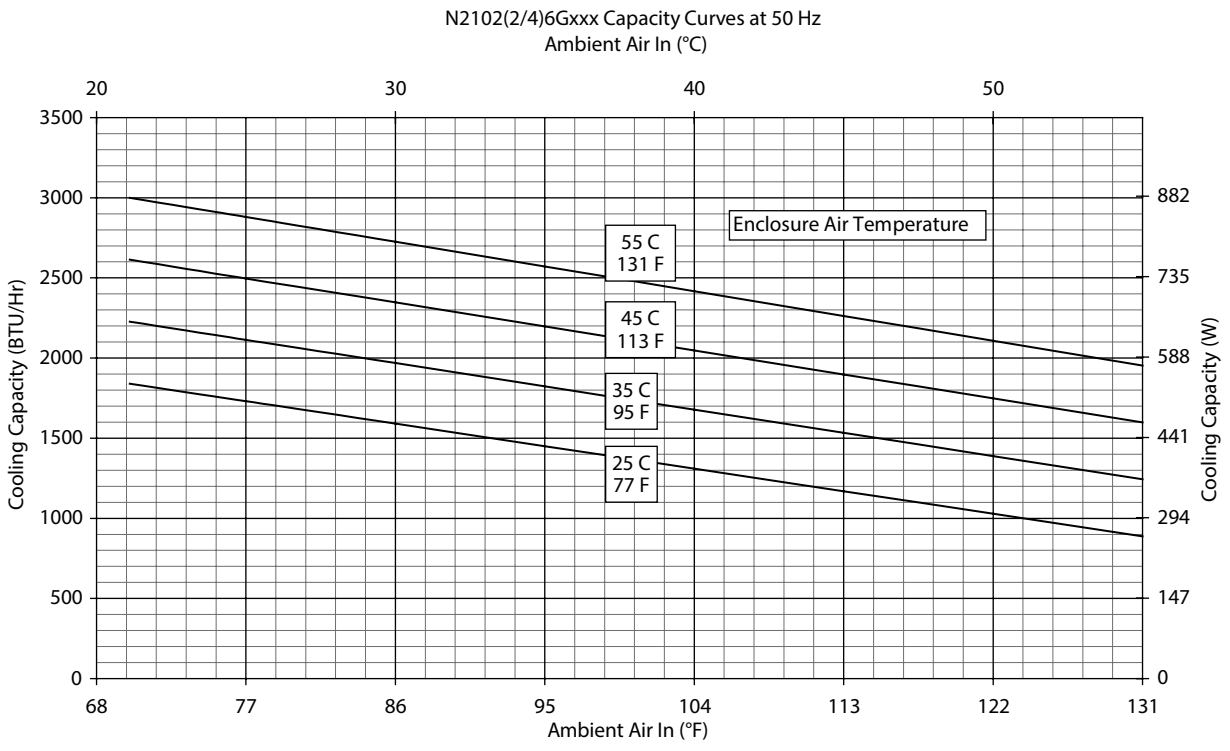
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

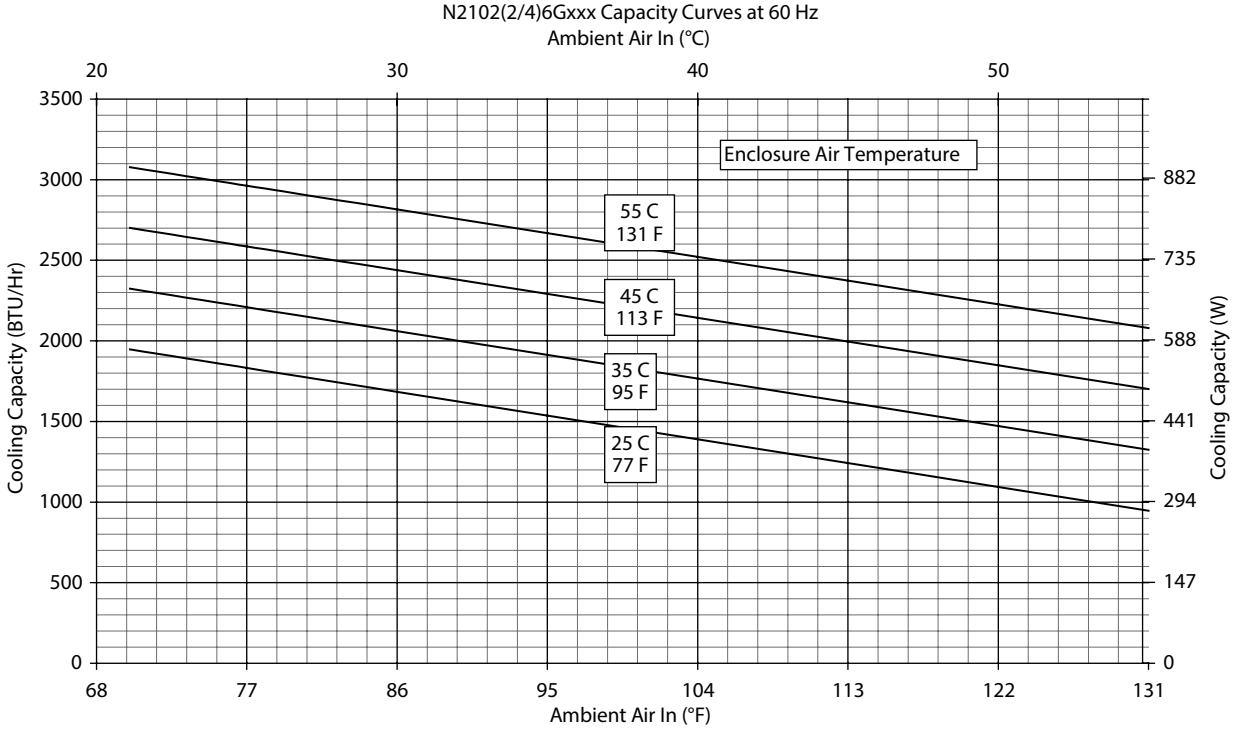
Performance Curves for N21 Models 2000 BTU/Hr. (586 Watt)



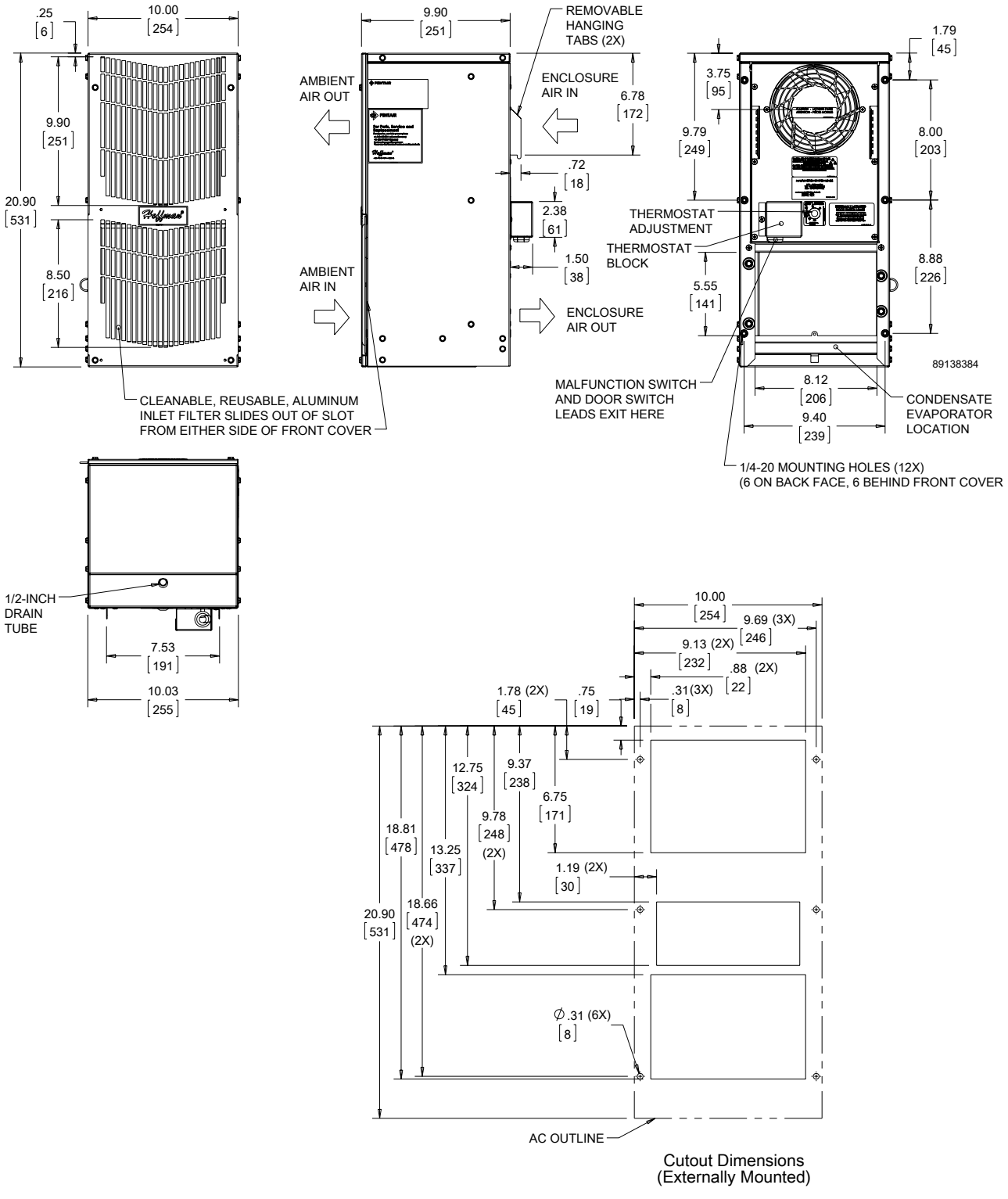


Performance Curves for N21 Models 2000 BTU/Hr. (586 Watt)





N21 115/230V Models 2000 BTU/Hr. (586 Watt)



Cutout Dimensions
(Externally Mounted)

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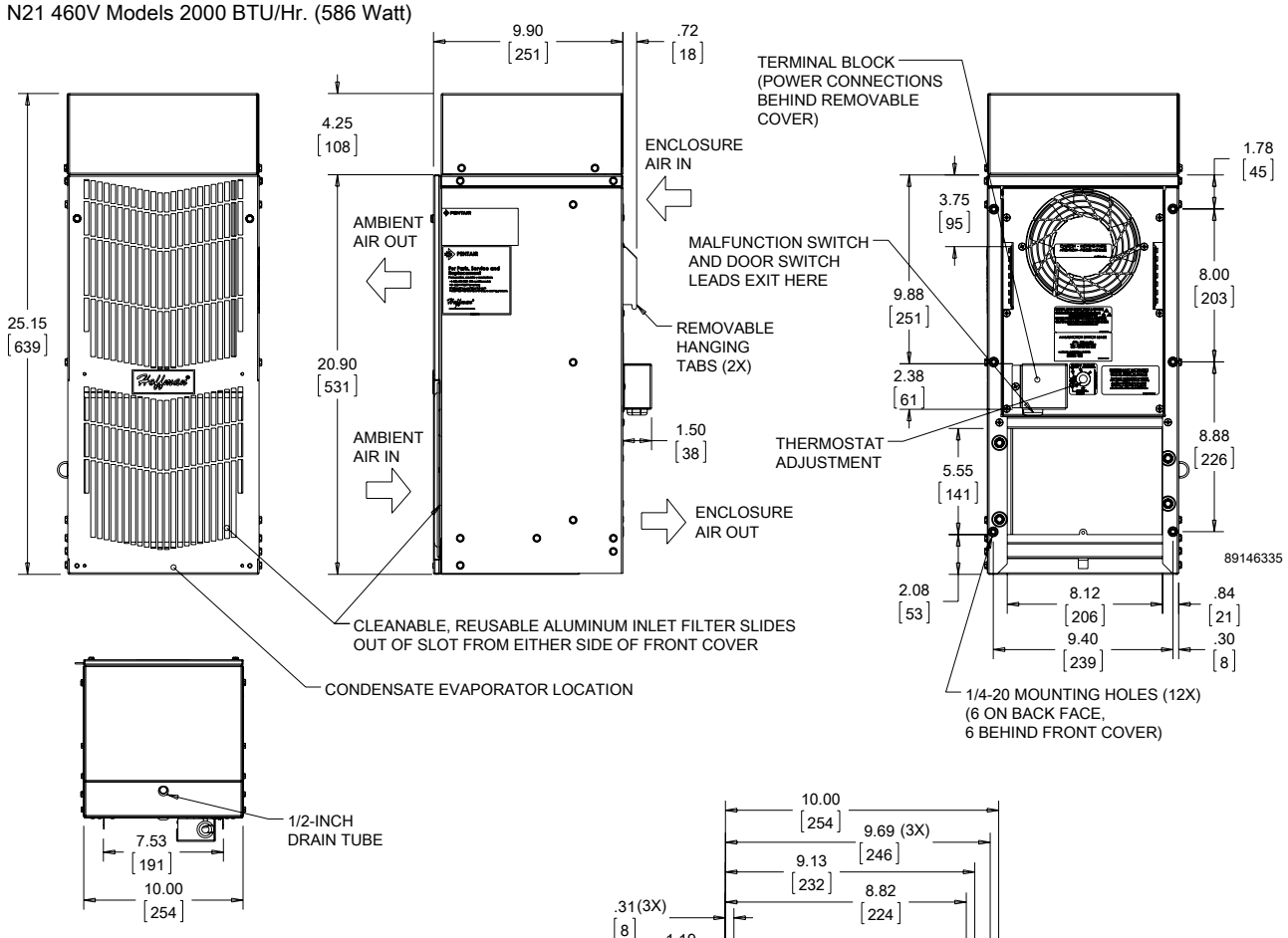
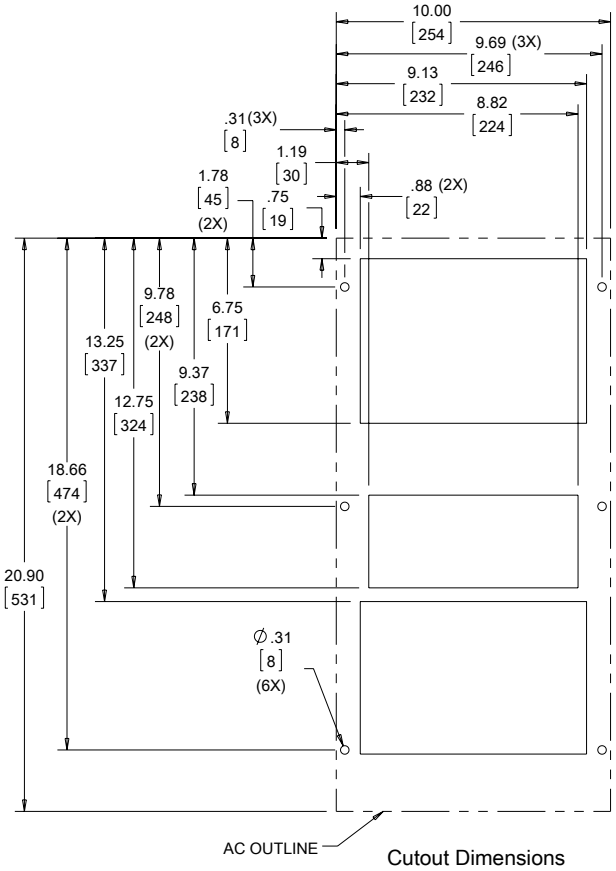
N21 460V Models 2000 BTU/Hr. (586 Watt)





Cutout Dimensions

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SPECTRACOOL NARROW INDOOR/OUTDOOR

N43
11000 BTU/Hr.
3223 Watt

N36
6000/8000 BTU/Hr.
1758/2344 Watt

N28
4000 BTU/Hr.
1172 Watt

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453

CE
IP 56 Internal Loop
IP 34 on External Loop
Telcordia GR-487 capable (Outdoor)

APPLICATION

- Industrial automation
- Waste water treatment systems
- Package handling equipment
- Security and defense systems

FEATURES

- Narrow design accommodates 12-in. (300-mm) deep cabinets
- Energy efficient reciprocating compressor on N28 models
- Energy efficient rotary compressor on N36 and N43 models
- R407c and R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 3-phase VAC power input
- UL Listed to save customers time and money with agency approvals
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C (125 F/52 C on N28 Series)
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat on enclosure side of the unit; indoor Air Conditioner models include digital display on ambient side
- Galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cut-out adapter options for enclosures with GENESIS air conditioners enable users to easily transition to the new unit
- Dust-resistant condenser coil allows the unit to be run filterless in most applications
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Active condensate management with heater strip
  - Power-off relay for door switch and other system requirements
  - Malfunction switch
- Standard Outdoor Air Conditioner models also include:
  - Telcordia GR-487 capable
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control
  - 1300 W enclosure heater

SPECIFICATIONS

- Nominal cooling capacity:
  N28 4000 BTU/Hr. (1172 W)
  N36 6000 & 8000 BTU/Hr. (1758 and 2344 W)
  N43 11000 BTU/Hr. (3223 W)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C (125 F/52 C on N28 Series)

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

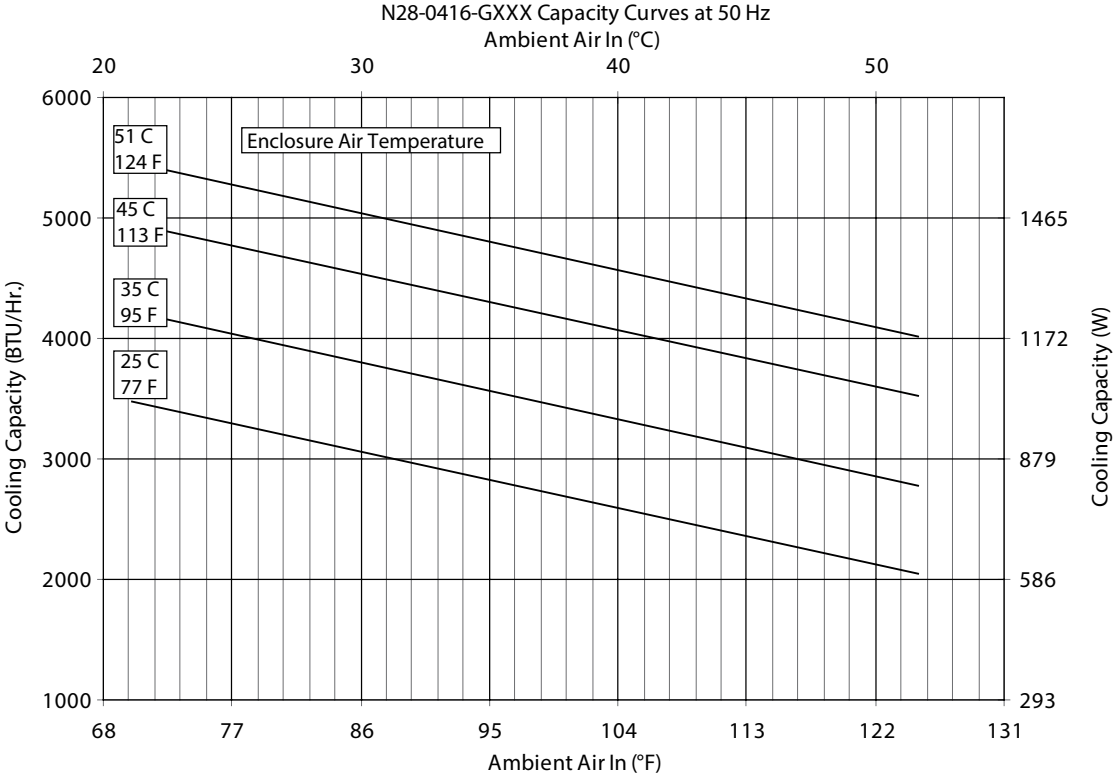
EtherNet/IP ODVA PI PROFIBUS • PROFINET

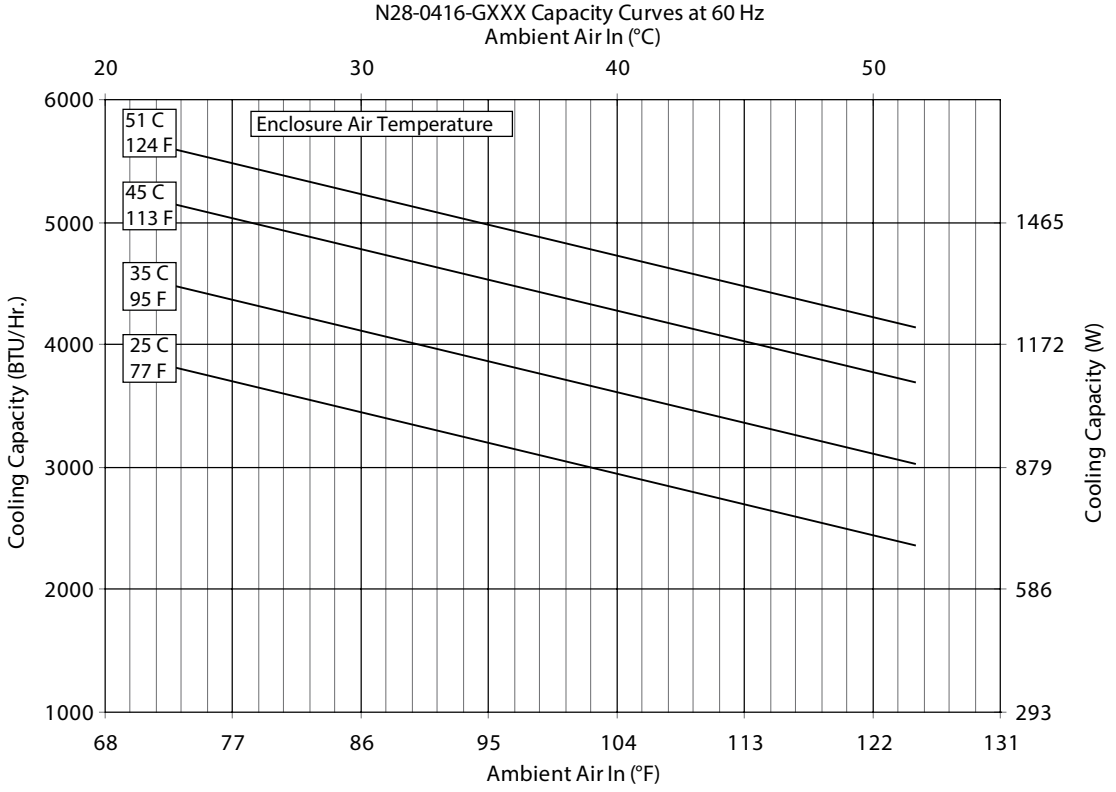
Performance Data **N28 4000 BTU/Hr. (1172 Watt)**

CATALOG NUMBER			
Indoor Model	N280416G050	N280426G050	N280446G050
Indoor Model Stainless Steel Type 4X	N280416G051	N280426G051	N280446G051
Indoor Model with Remote Access Control*	N280416G060	N280426G060	N280446G060
Outdoor Model without Heat Pkg.	N280416G100	N280426G100	N280446G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N280416G102	N280426G102	N280446G102
Outdoor Model with Heat Pkg.	N280416G150	N280426G150	—
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N280416G151	N280426G151	—
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	**3800 / 4000**	**3800 / 4000**	**3800 / 4000**
Watts	**1114 / 1172**	**1114 / 1172**	**1114 / 1172**
At 125 F / 125 F (50 C / 50 C):			
BTU/Hr. (50 / 60 Hz)	3940 / 4104	4269 / 4703	4269 / 4703
Watts (50 / 60 Hz)	1150 / 1000	1250 / 1378	1250 / 1378
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	3754 / 4011	3700 / 4291	3700 / 4291
Watts (50 / 60 Hz)	1100 / 1175	1086 / 1257	1086 / 1257
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	10 / 283	11 / 312	11 / 312
Operating Temperature Range:			
Maximum (°F / °C)	125 / 52	125 / 52	125 / 52
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	138 / 234	138 / 234	138 / 234
External loop 50 Hz (CFM / M^3/Hr)	268 / 455	268 / 455	268 / 455
Internal loop 60 Hz (CFM / M^3/Hr)	143 / 243	143 / 243	143 / 243
External loop 60 Hz (CFM / M^3/Hr)	288 / 489	288 / 489	288 / 489
Max. Heater W (Outdoor Models)	1300	1300	N/A
ELECTRICAL DATA			
Rated Voltage	**110 / 115**	**230**	**460V 1PH**
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	971 / 1116	975 / 1104	1104
Max. Nominal Current (Amps at 50 / 60 Hz)	10.6 / 10.0	4.9 / 5.0	2.5
Starting Current (Amps)	40	24.5	12.5
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side	
Factory Thermostat Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	64.4 dBA	65.5 dBA	65.5 dBA
UNIT CONSTRUCTION			
Material		Galvanized sheet metal standard Stainless steel optional	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
ACCESSORIES			
EASYSWAP Adaptor Plenum (GENESIS M33)		Enables SPECTRACOOL to be mounted to a GENESIS M33 air conditioner cutout Catalog Number PLM33N28	
UNIT DIMENSIONS			
Height (in / mm)		28 / 711.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	84 / 38	84 / 38	92 / 41.7

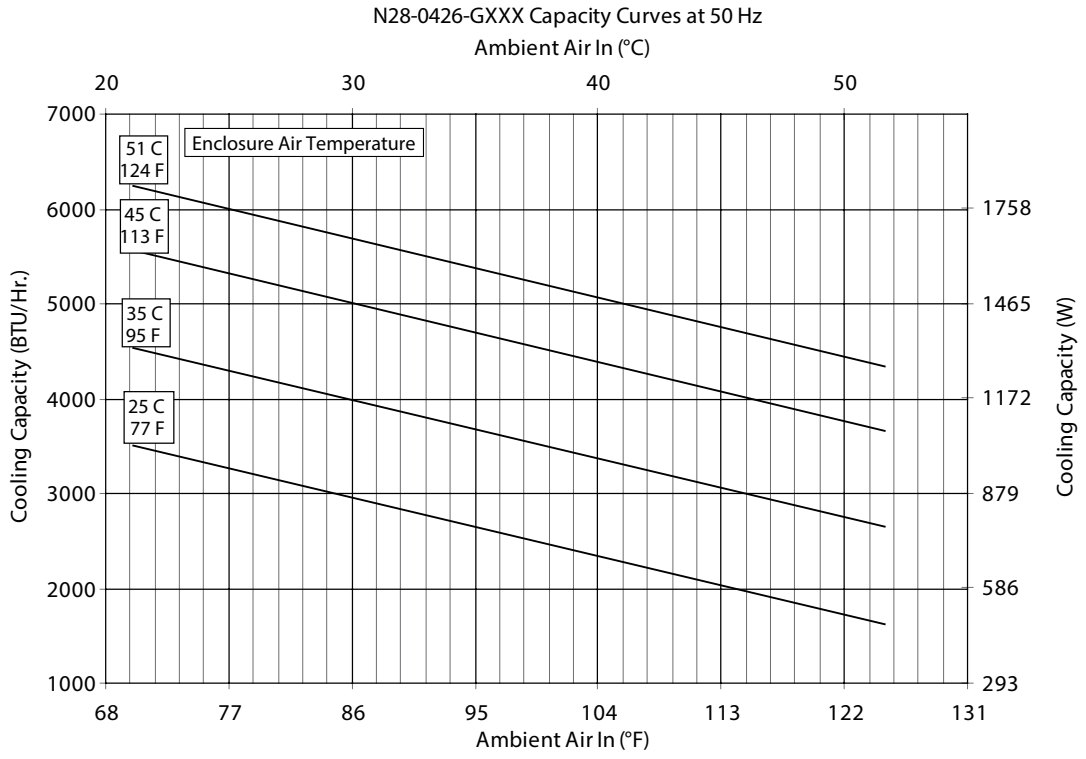
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

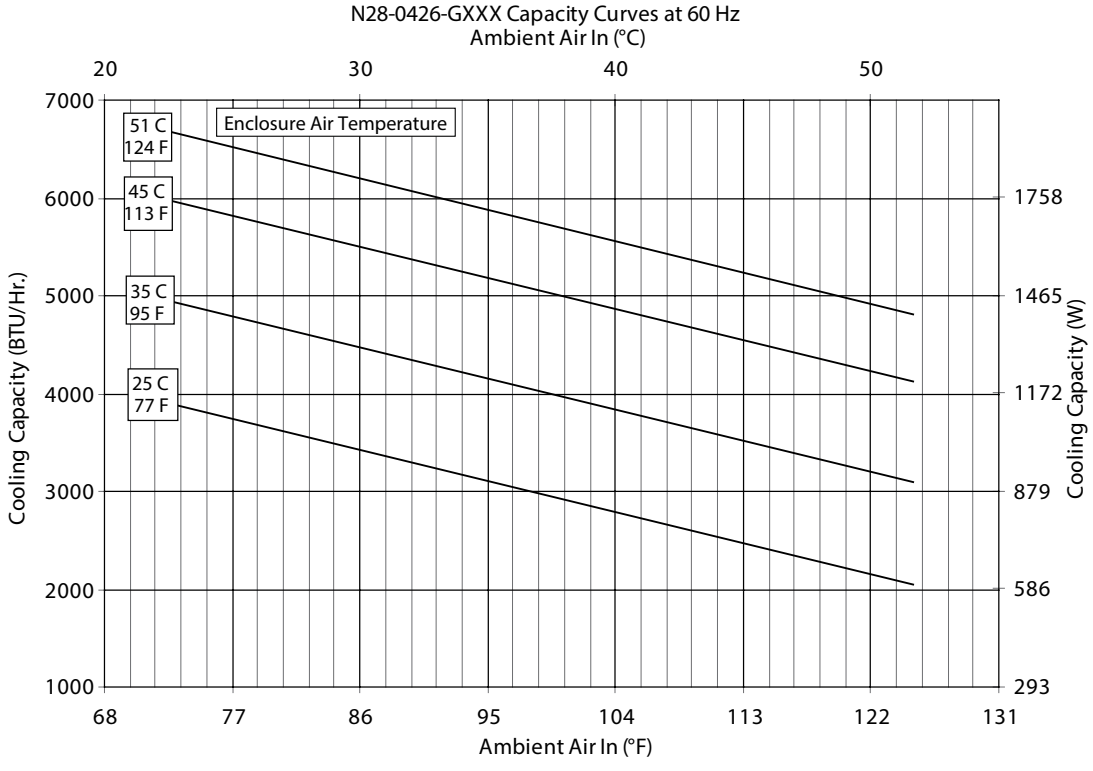
Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)



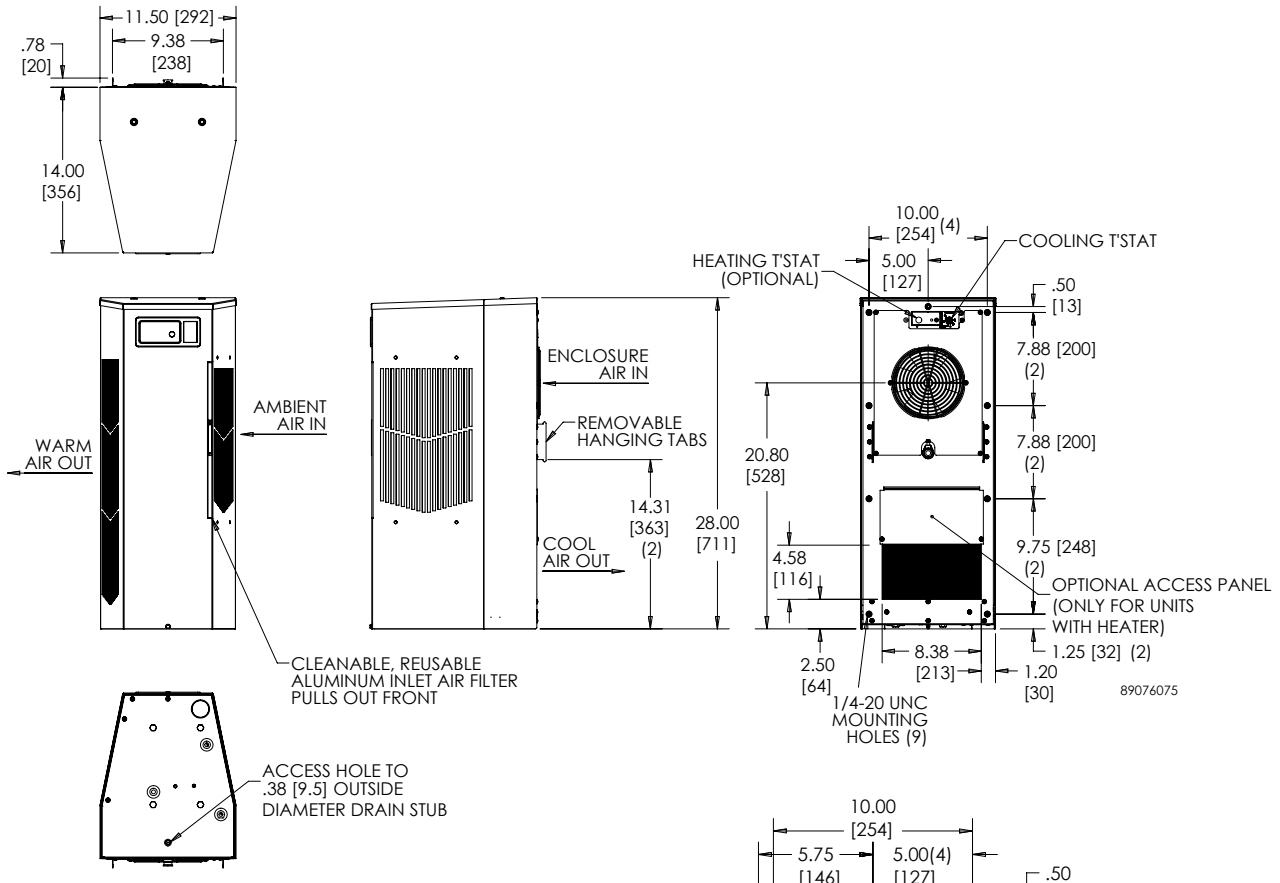


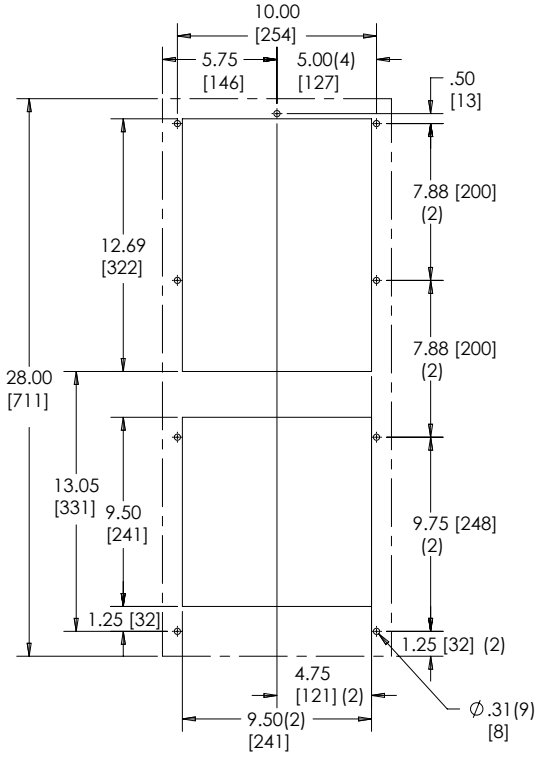
Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)





N28 Models 4000 BTU/Hr. (1172 Watt)





Cutout Dimensions

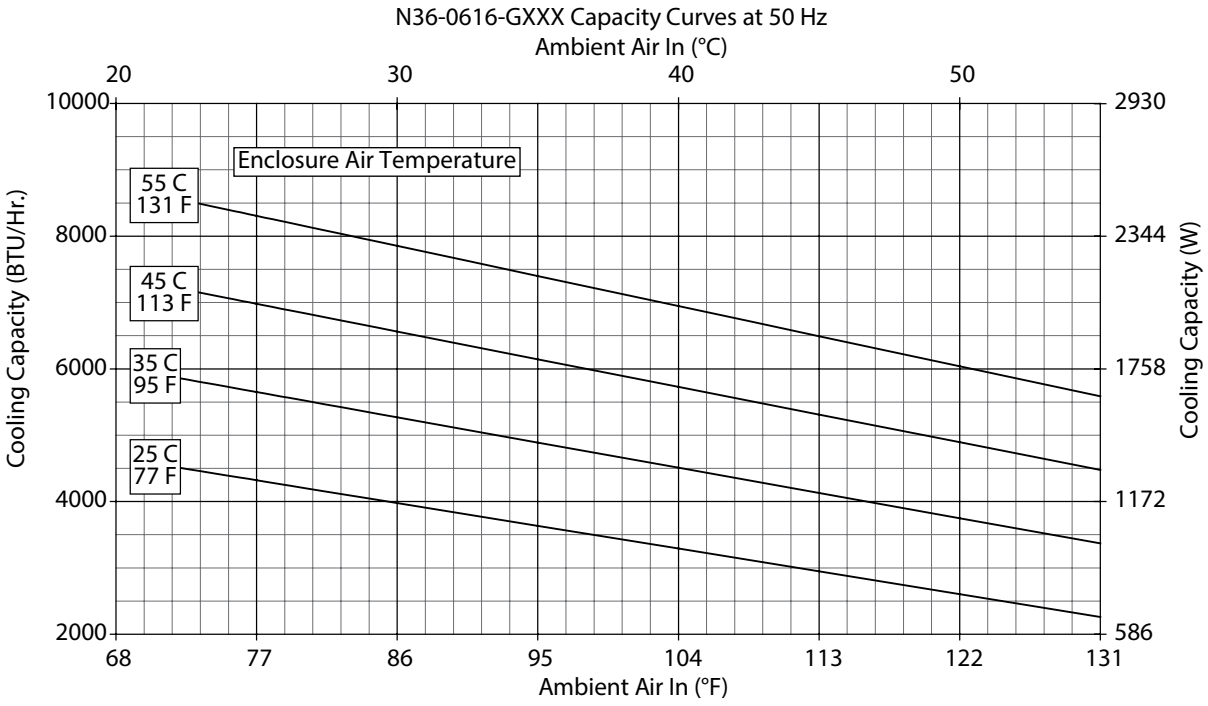
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

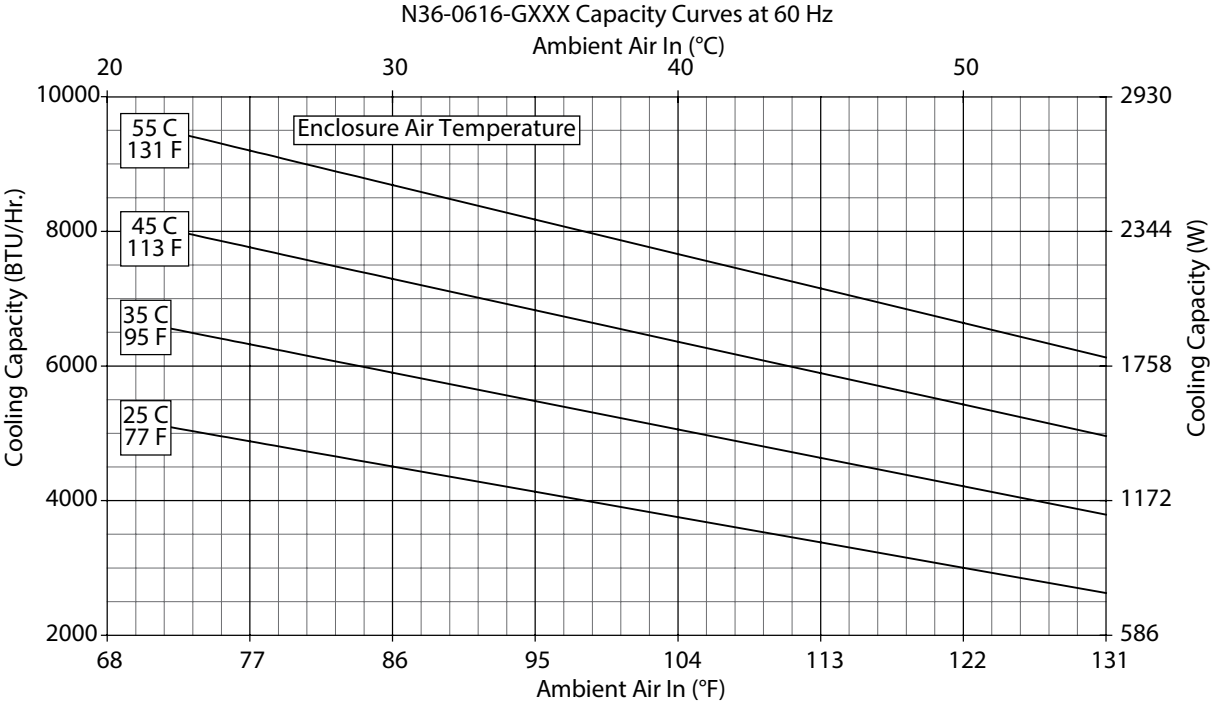
Performance Data **N36 6000/8000 BTU/Hr. (1758/2344 Watt)**

CATALOG NUMBER						
Indoor Model	N360616G050	N360626G050	N360646G050	N360816G050	N360826G050	N360846G050
Indoor Model Stainless Steel Type 4X	N360616G051	N360626G051	N360646G051	N360816G051	N360826G051	N360846G051
Indoor Model with Remote Access Control*	N360616G060	N360626G060	N360646G060	N360816G060	N360826G060	N360846G060
Outdoor Model without Heat Pkg.	N360616G100	N360626G100	N360646G100	N360816G100	N360826G100	N360846G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N360616G102	N360626G102	N360646G102	N360816G102	N360826G102	N360846G102
Outdoor Model with Heat Pkg.	N360616G150	N360626G150	N360646G150	N360816G150	N360826G150	N360846G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N360616G151	N360626G151	N360646G151	N360816G151	N360826G151	N360846G151
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**5400 / 6000**	**5400 / 6000**	**5400 / 6000**	**8250 / 8500**	**8250 / 8500**	**8250 / 8500**
Watts	**1581 / 1757**	**1581 / 1757**	**1581 / 1757**	**2416 / 2489**	**2313 / 2635**	**2284 / 2401**
At 131 F / 131 F (55 C / 55 C):						
BTU/Hr. (50 / 60 Hz)	5585 / 6180	5469 / 5965	5300 / 6089	8213 / 8453	7874 / 8063	7777 / 8166
Watts (50 / 60 Hz)	1637 / 1811	1603 / 1748	1553 / 1785	2405 / 2475	2306 / 2361	2277 / 2391
At 95 F / 95 F (35 C / 35 C):						
BTU/Hr. (50 /60 Hz)	4909 / 5485	5159 / 5621	5572 / 6026	7028 / 7626	6660 / 7411	6877 / 7525
Watts (50 / 60 Hz)	1439 / 1607	1512 / 1647	1633 / 1766	2058 / 2233	1950 / 2170	2014 / 2203
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	20 / 567	22 / 624	16 / 454	36 / 1021	36 / 1021	36 / 1021
Operating Temperature Range:						
Maximum (°F / °C)	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / M^3/Hr.)	251 / 426	250 / 425	250 / 425	250 / 425	245 / 416	243 / 413
External loop 50 Hz (CFM / M^3/Hr.)	284 / 483	338 / 574	338 / 574	313 / 532	347 / 589	365 / 620
Internal loop 60 Hz (CFM / M^3/Hr.)	261 / 443	261 / 443	261 / 443	263 / 447	258 / 439	254 / 432
External loop 60 Hz (CFM / M^3/Hr.)	311 / 528	356 / 605	356 / 605	338 / 574	382 / 648	394 / 669
Max. Heater W (Outdoor Models)	1300	1300	1300	1300	1300	1300
ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**400 / 460 3~**	**115**	**230**	**400 / 460 3~**
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	911 / 1108	908 / 1073	697 / 895	1334 / 1530	1265 / 1403	572 / 628
Max. Nominal Current (Amps at 50 / 60 Hz)	9.1 / 10.1	4.5 / 4.7	1.59 / 1.69	11.6 / 13.3	5.5/6.1	2.9/3.0
Starting Current (Amps)	39.2	23.0	8.1	48.3	27.0	16.0
Agency Approvals	cUL Listed CE Others available upon request					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional					
CONTROLLER						
Description	Basic Mechanical Thermostat					
Thermostat Location	Enclosure Side					
Factory Thermostat Setting (°F / °C)	80 / 27					
SOUND LEVEL						
At 1.5 Meters	66.9 dBA	66.7 dBA	68.2 dBA	66.0 dBA	66.0 dBA	66.0 dBA
UNIT CONSTRUCTION						
Material	Galvanized sheet metal standard Stainless steel optional					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
ACCESSORIES						
EASYSWAP Adaptor Plenum (GENESIS M36)	Enables SPECTRACOOL to be mounted to a GENESIS M36 air conditioner cutout Catalog Number PLM36N36					
UNIT DIMENSIONS						
Height (in. / mm)	36.00 / 914.4					
Width (in. / mm)	11.50 / 292.1					
Depth (in. / mm)	14.00 / 355.6					
Weight (lb. / kg)	100 / 45	100 / 45	104 / 47	106 / 48	106 / 48	114 / 52

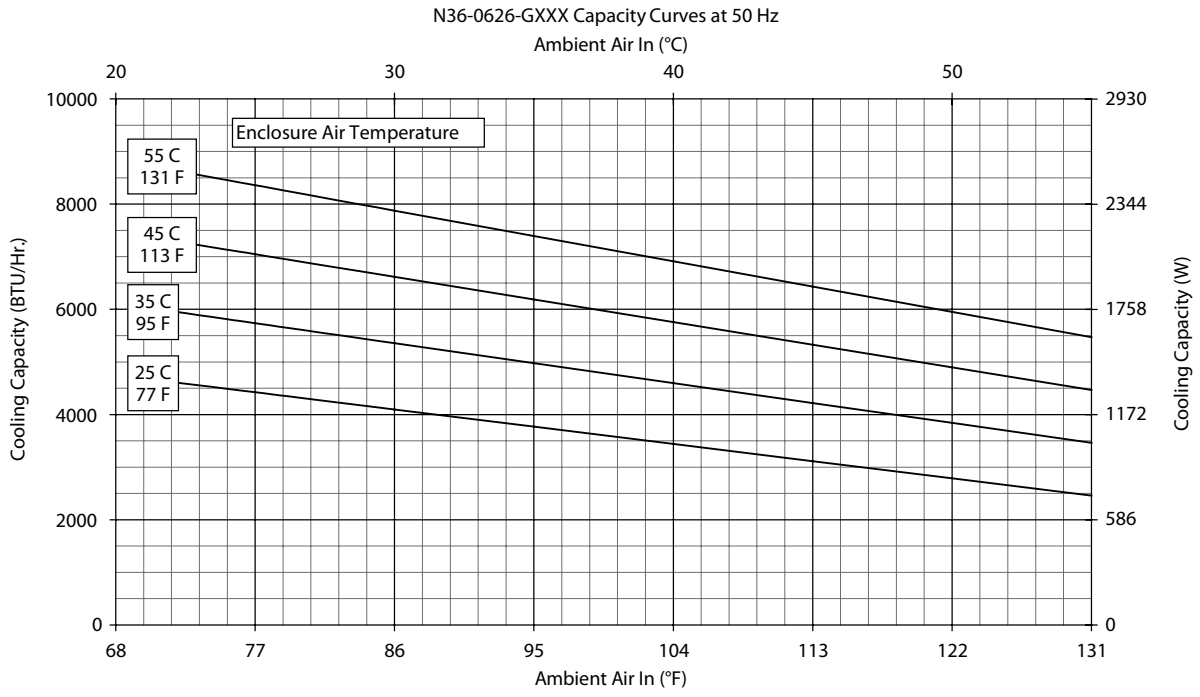
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

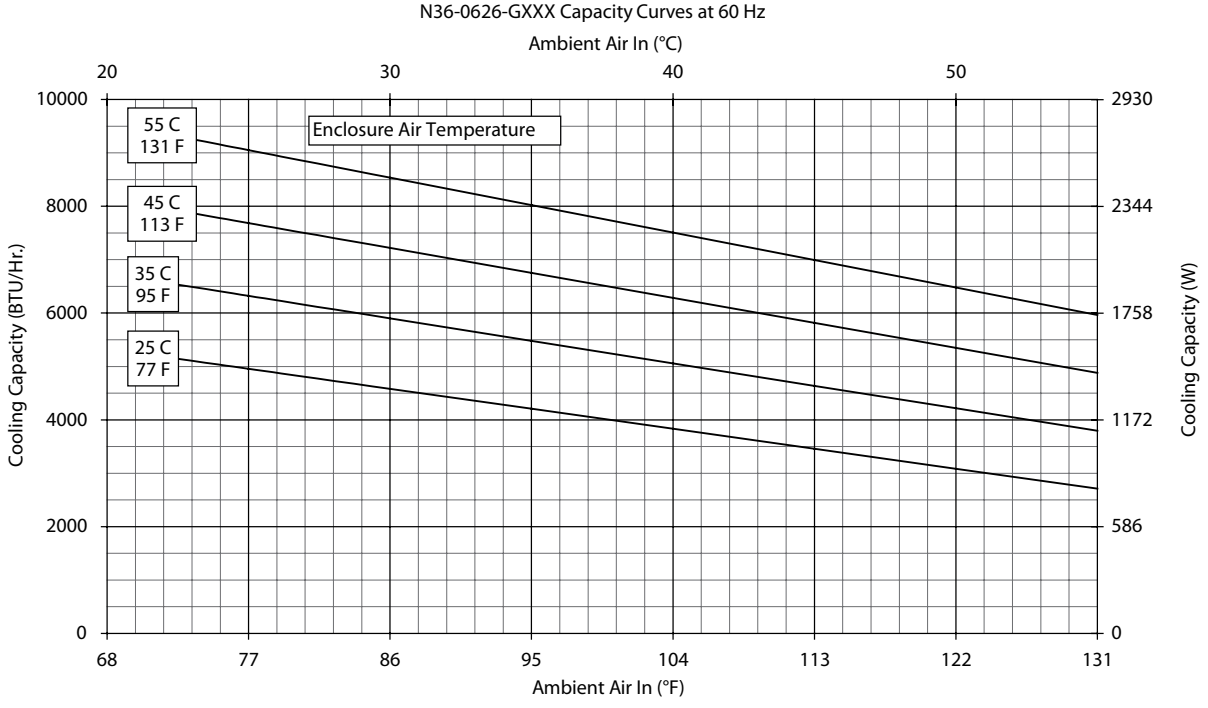
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)



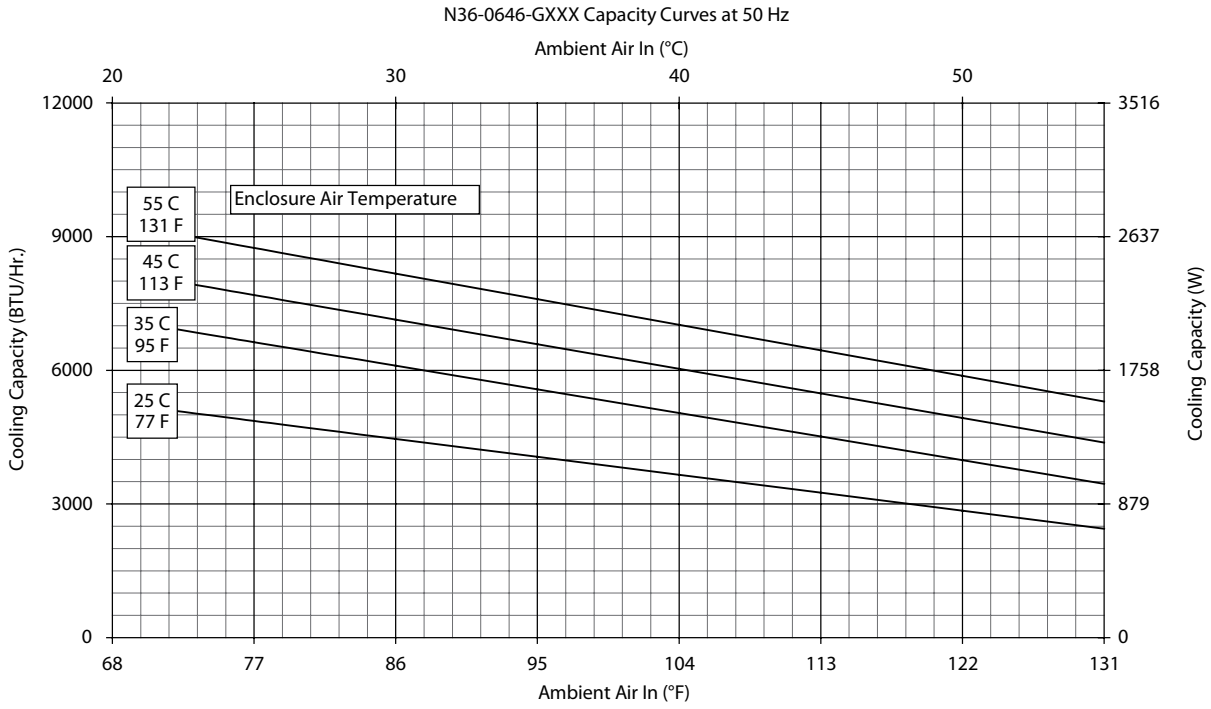


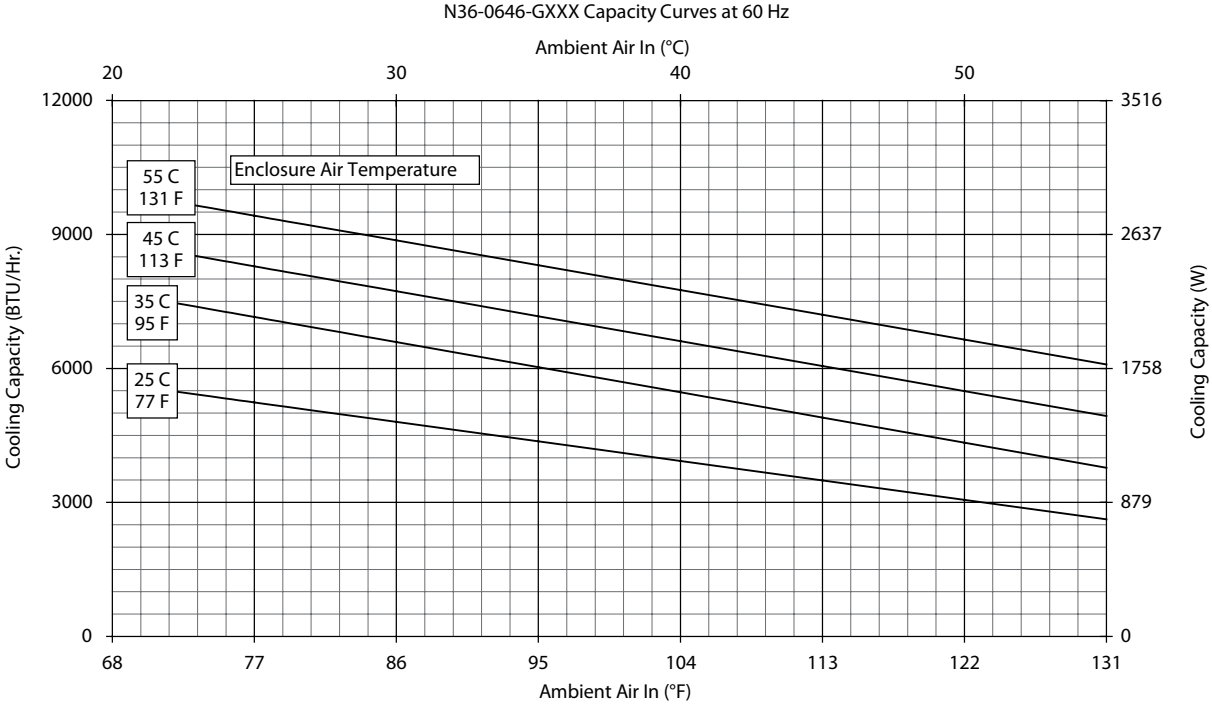
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)



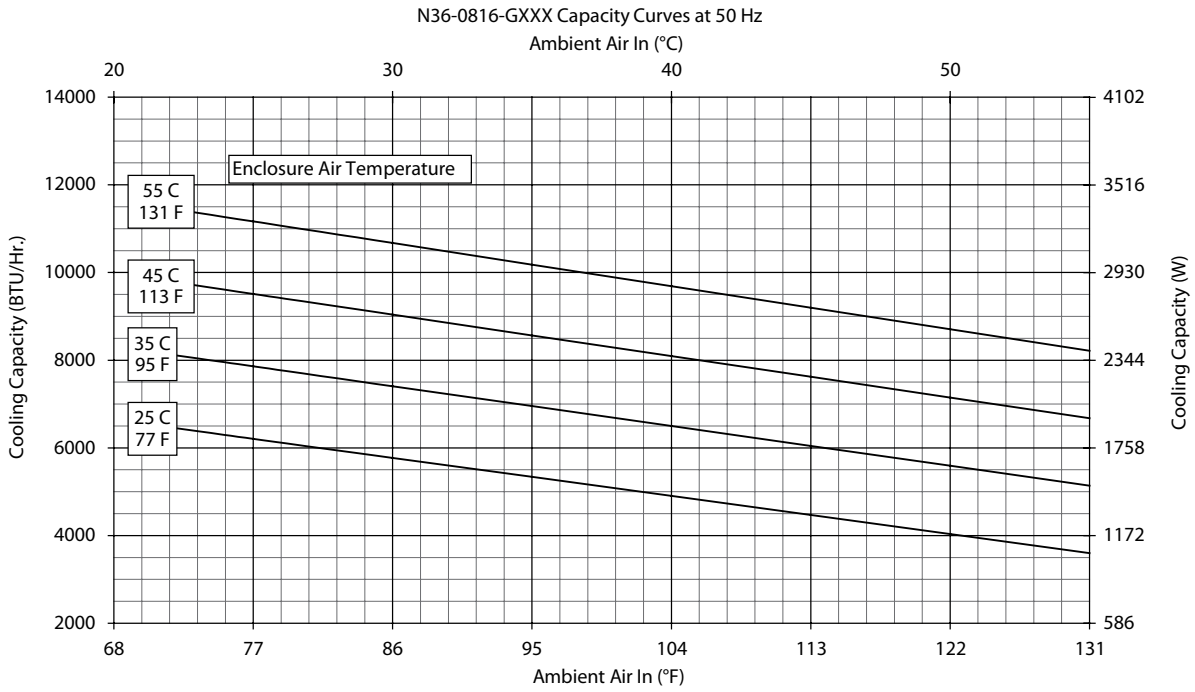


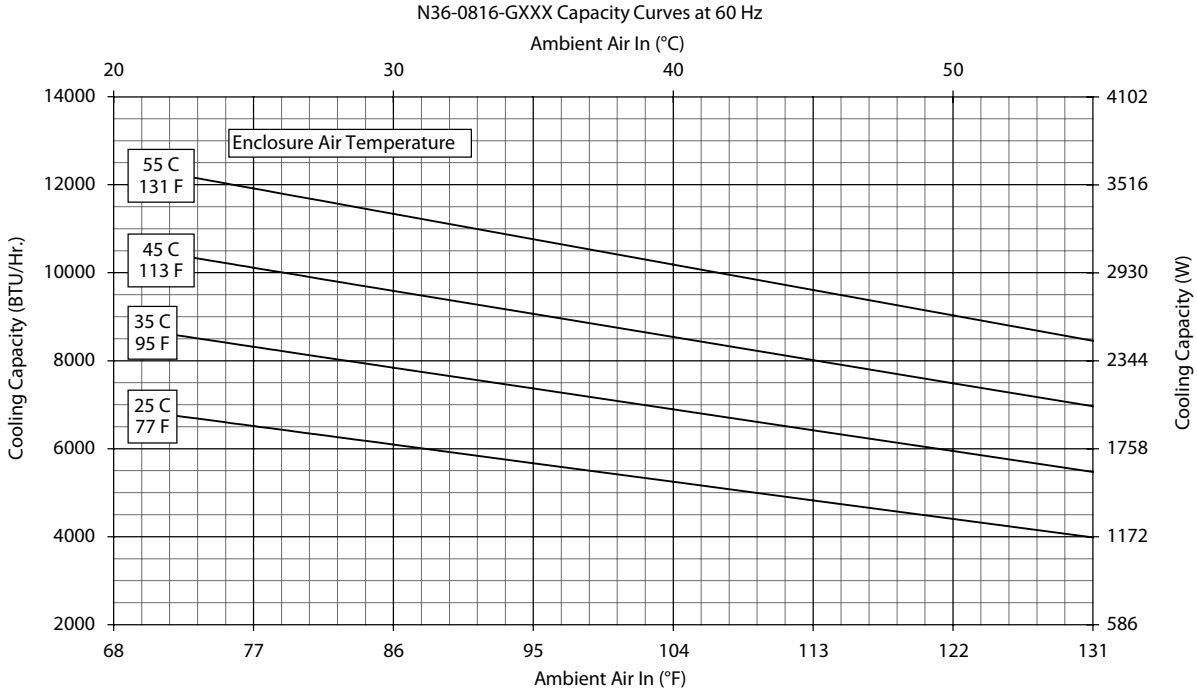
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)





Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)





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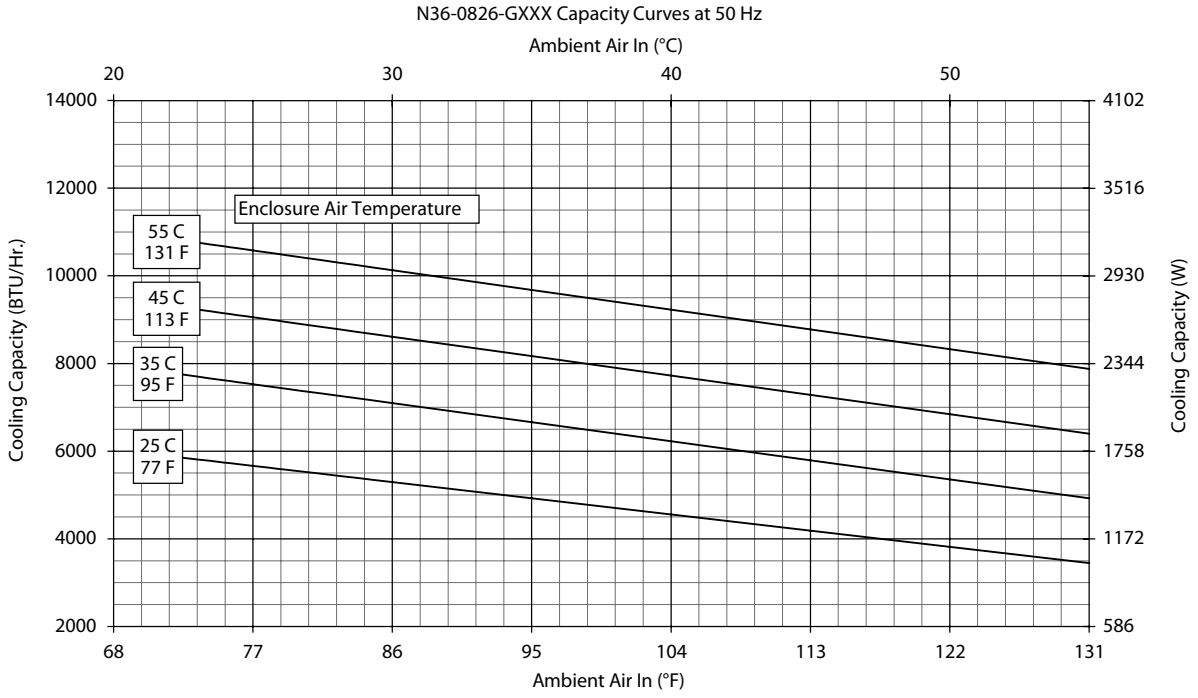
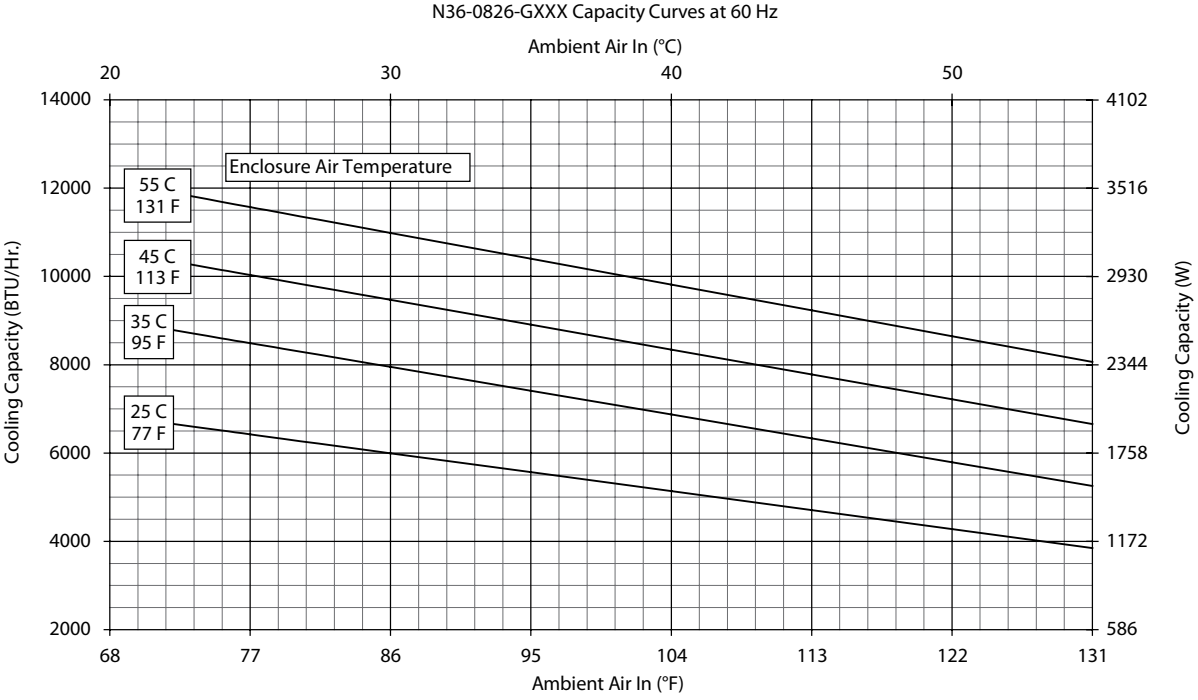
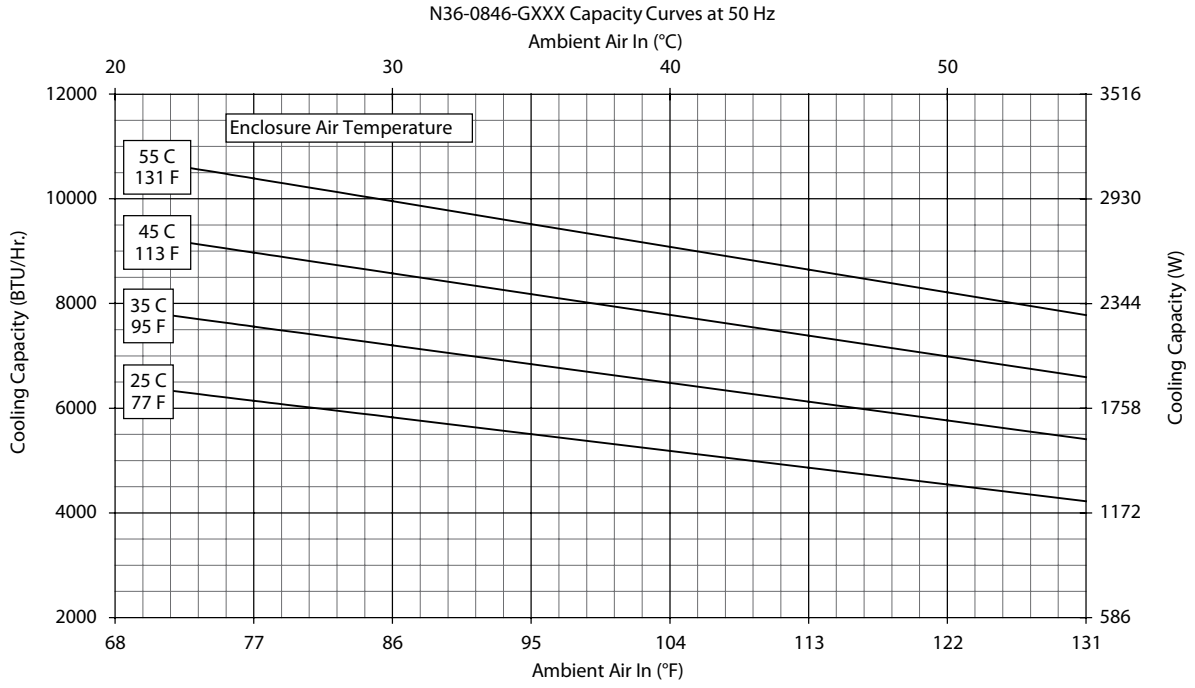
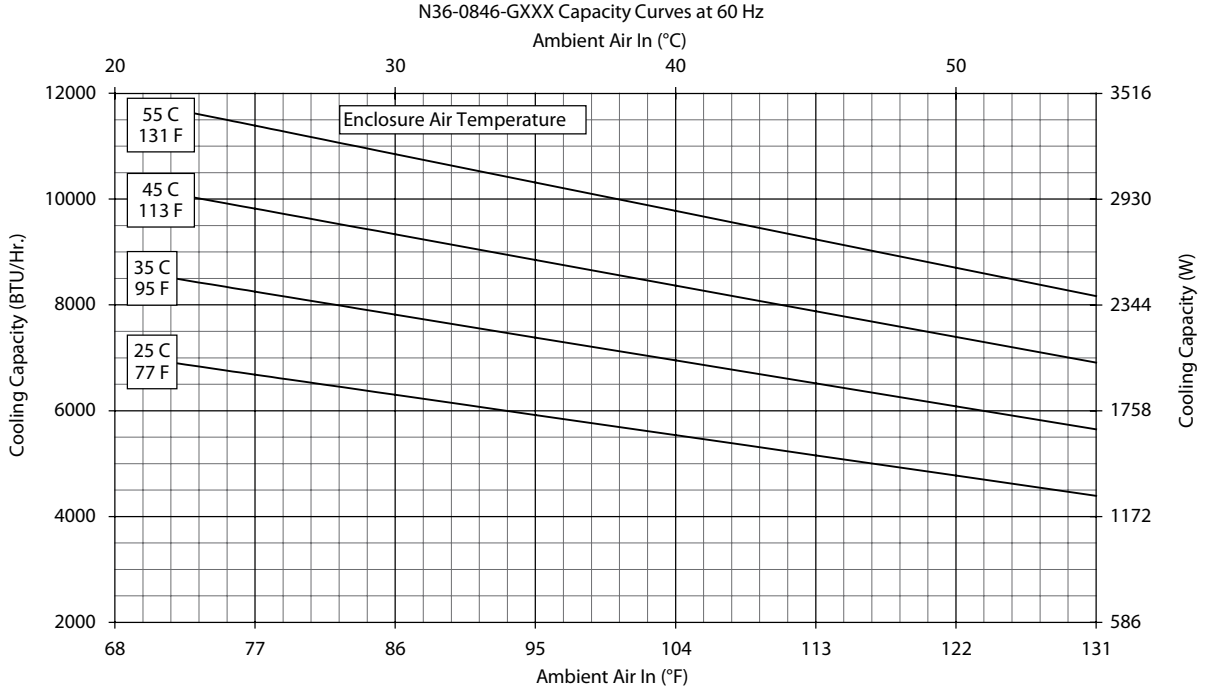


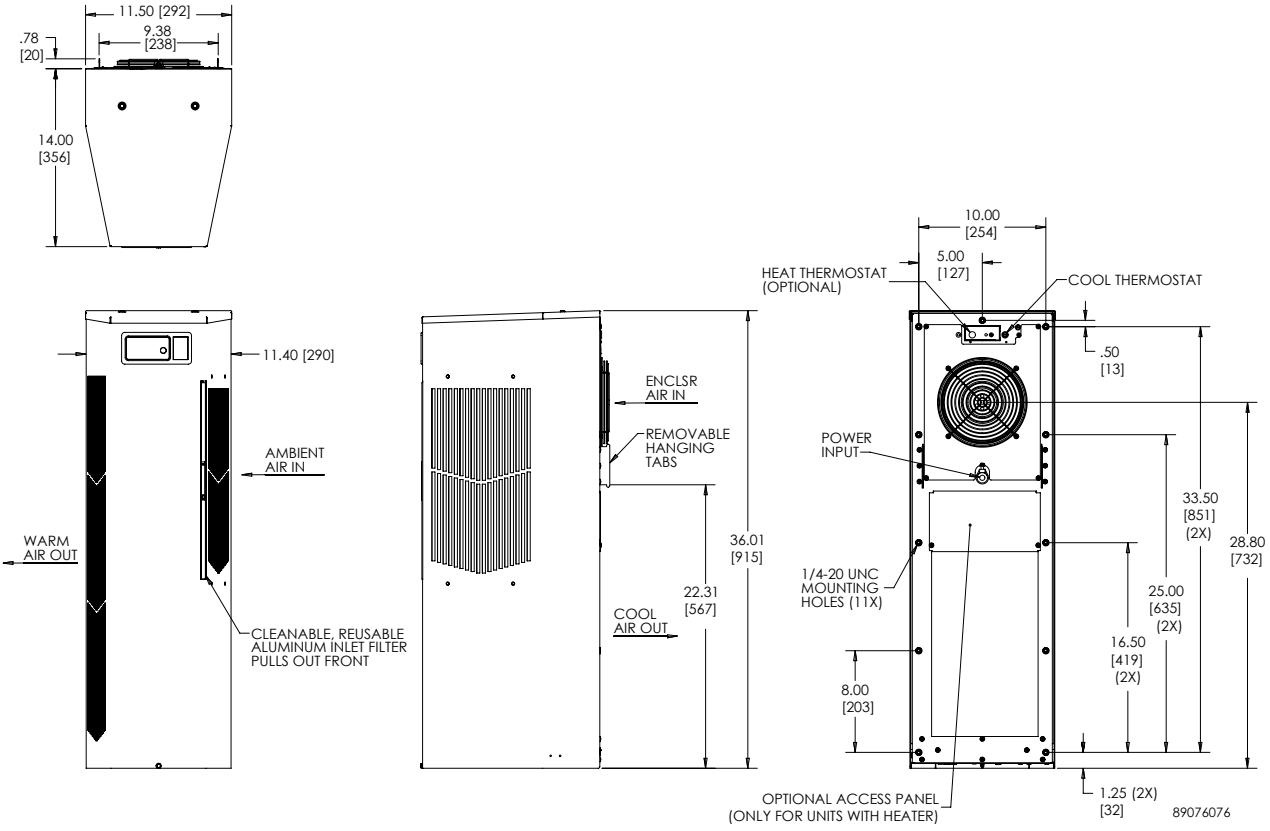


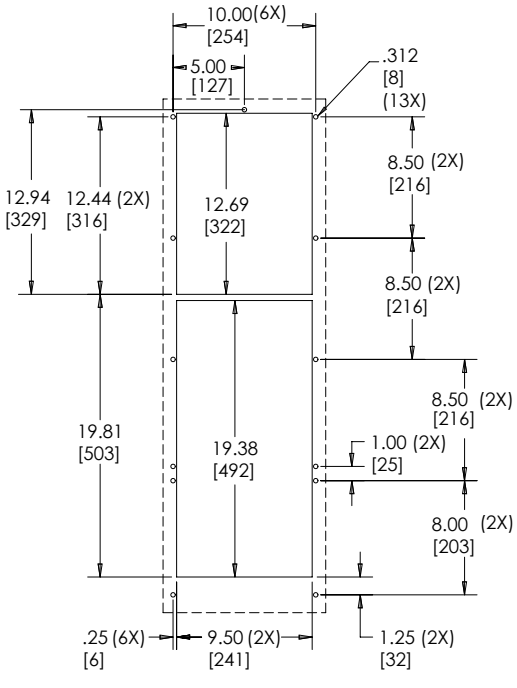
Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)





N36 6000/8000 BTU/Hr. (1758/2344 Watt)





Cutout Dimensions

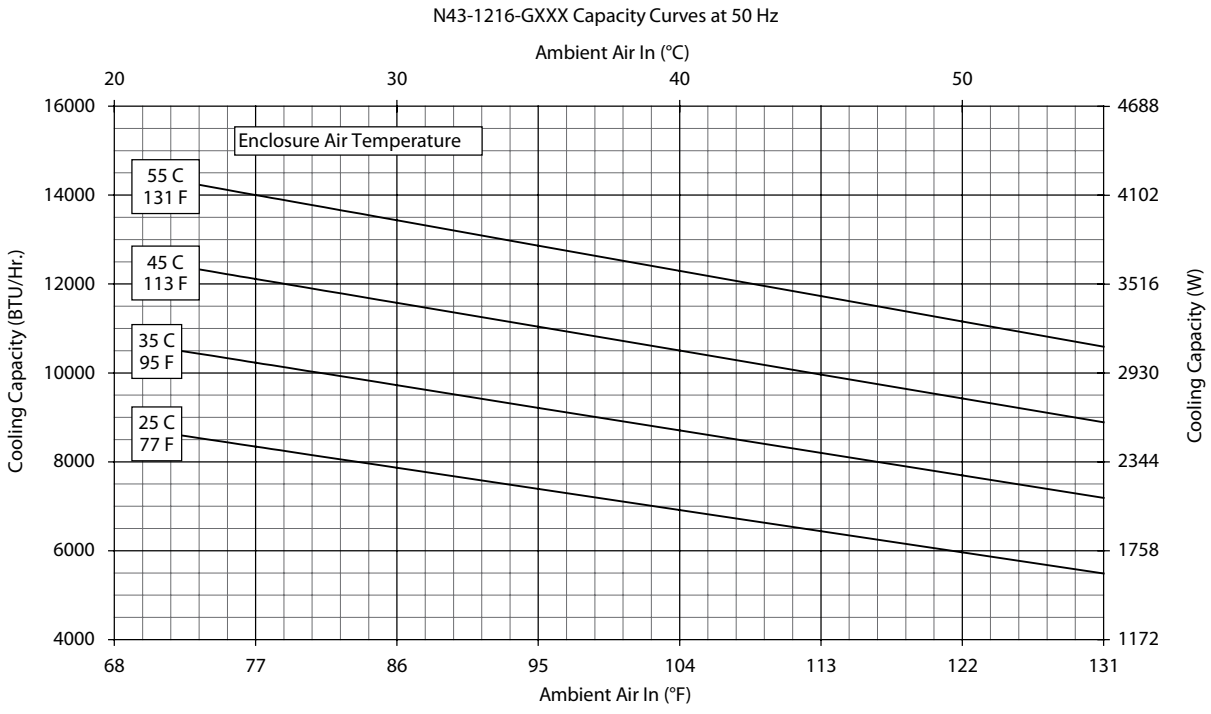
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

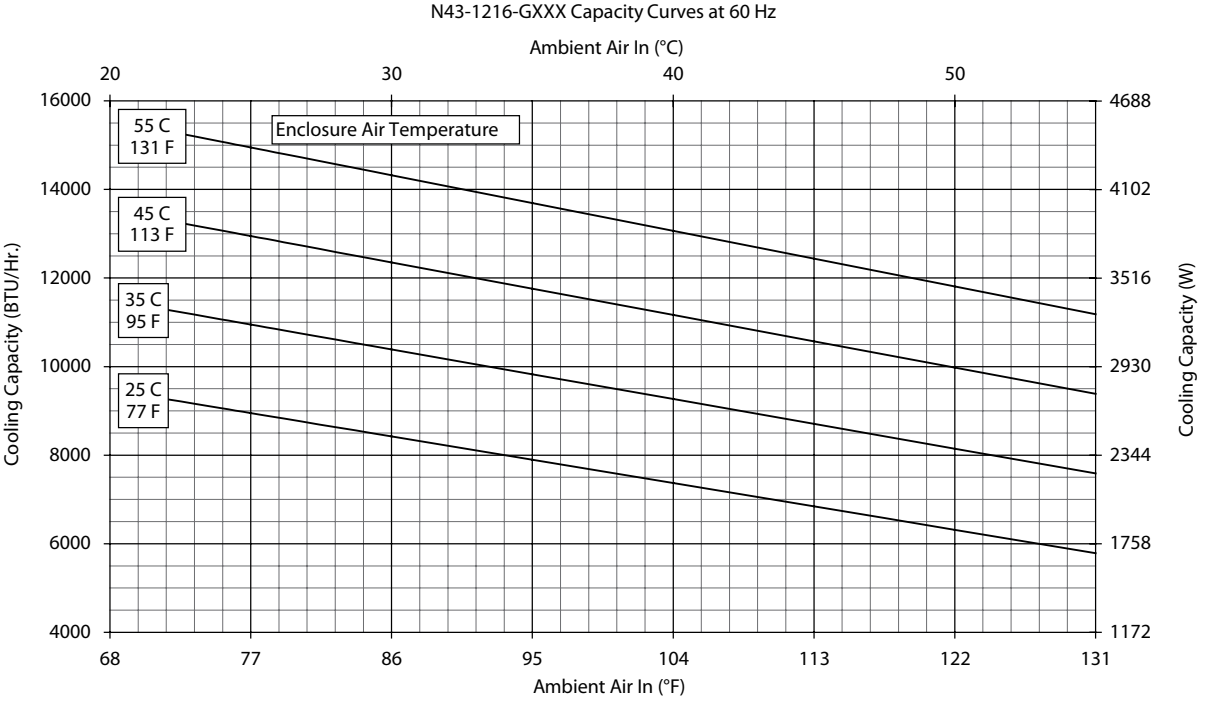
Performance Data **N43 11000 BTU/Hr. (3223 Watt)**

CATALOG NUMBER			
Indoor Model	N431216G050	N431226G050	N431246G050
Indoor Model Stainless Steel Type 4X	N431216G051	N431226G051	N431246G051
Indoor Model with Remote Access Control*	N431216G060	N431226G060	N431246G060
Outdoor Model without Heat Pkg.	N431216G100	N431226G100	N431246G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N431216G102	N431226G102	N431246G102
Outdoor Model with Heat Pkg.	N431216G150	N431226G150	N431246G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N431216G151	N431226G151	N431246G151
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**10400 / 11000**	**10400 / 11000**	**10400 / 11000**
Watts	**3047 / 3223**	**2900 / 3223**	**2900 / 3223**
At 131 F / 131 F (55 C / 55 C):			
BTU/Hr. (50 / 60 Hz)	10588 / 11180	9946 / 11052	10048 / 10797
Watts (50 / 60 Hz)	3103 / 3277	2915 / 3239	2945 / 3164
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	9475 / 10023	8967 / 9644	8587 / 9559
Watts (50 / 60 Hz)	2777 / 2937	2628 / 2826	2517 / 2801
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	36 / 1021	38 / 1077	41 / 1162
Operating Temperature Range:			
Maximum (°F / °C)	131 / 55	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	239 / 406	259 / 440	254 / 432
External loop 50 Hz (CFM / M^3/Hr)	494 / 839	489 / 831	341 / 579
Internal loop 60 Hz (CFM / M^3/Hr)	250 / 425	267 / 454	260 / 442
External loop 60 Hz (CFM / M^3/Hr)	528 / 897	525 / 892	564 / 958
Max. Heater W (Outdoor Models)	1300	1300	1300
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**400 / 460 3~**
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	1802 / 2446	1802 / 2446	1283 / 1644
Max. Nominal Current (Amps at 50 / 60 Hz)	16.6 / 22.0	8.7 / 9.1	3.1 / 3.3
Starting Current (Amps)	57	38	16
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side	
Factory Thermostat Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	68.4 dBA	68.4 dBA	69.6 dBA
UNIT CONSTRUCTION			
Material		Galvanized sheet metal standard Stainless steel optional	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
UNIT DIMENSIONS			
Height (in / mm)		43.00 / 1092.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	127/57.6	127/57.6	138/62.6

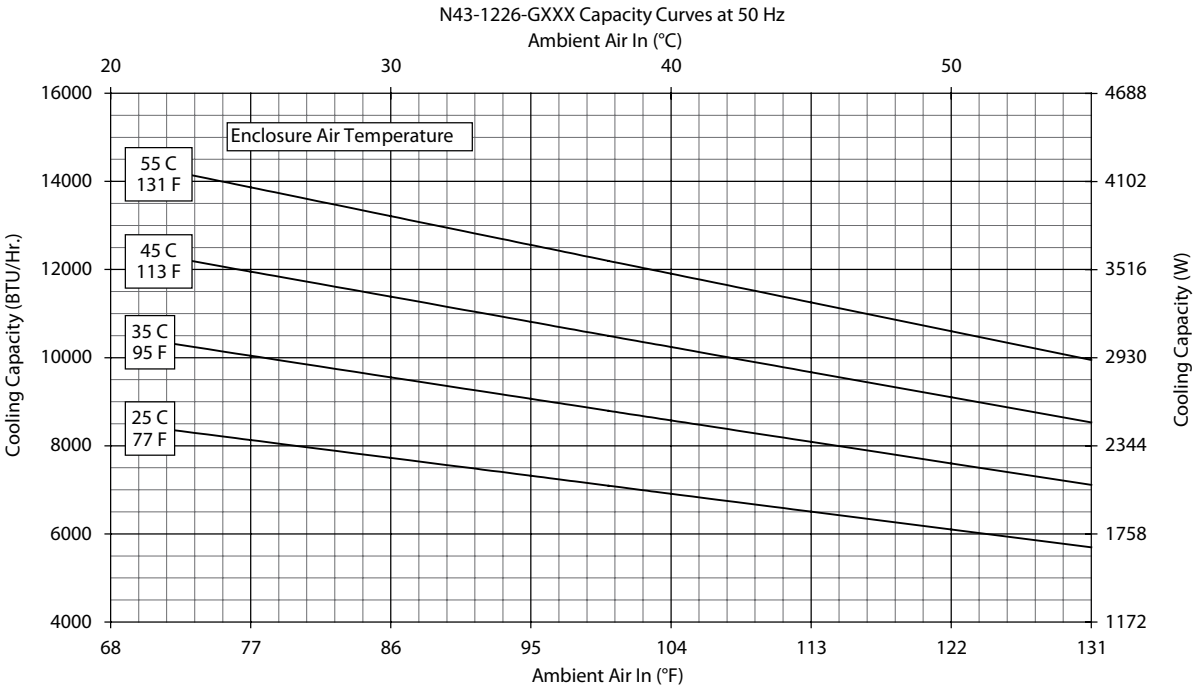
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

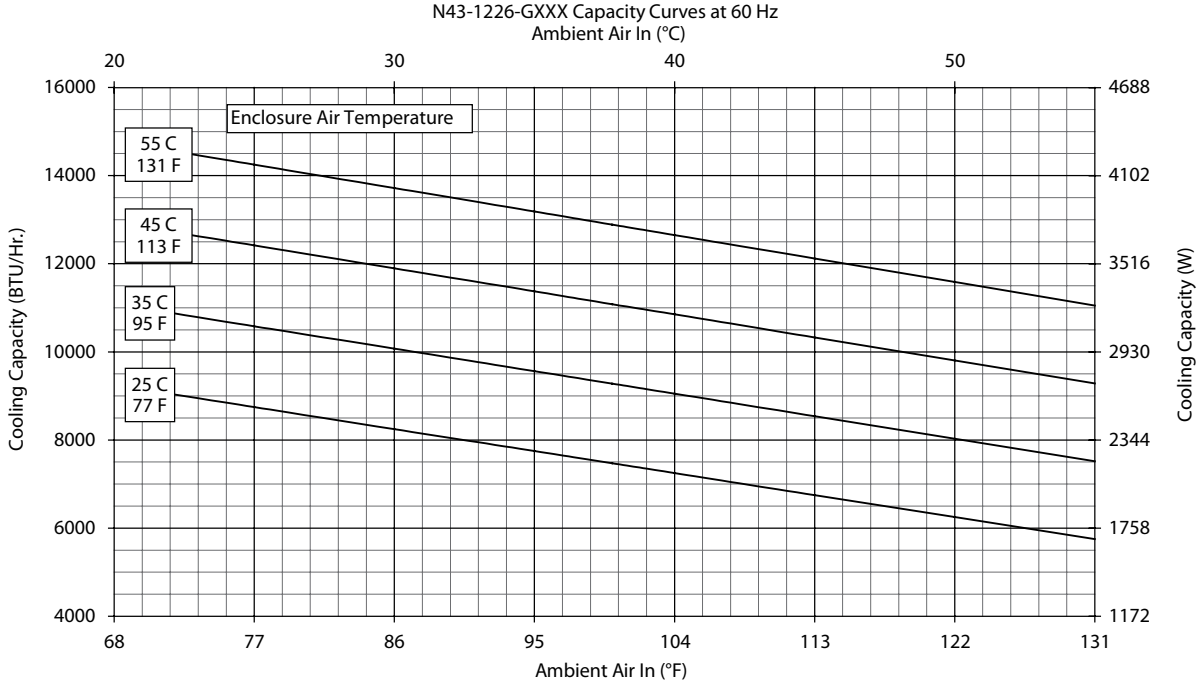
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)



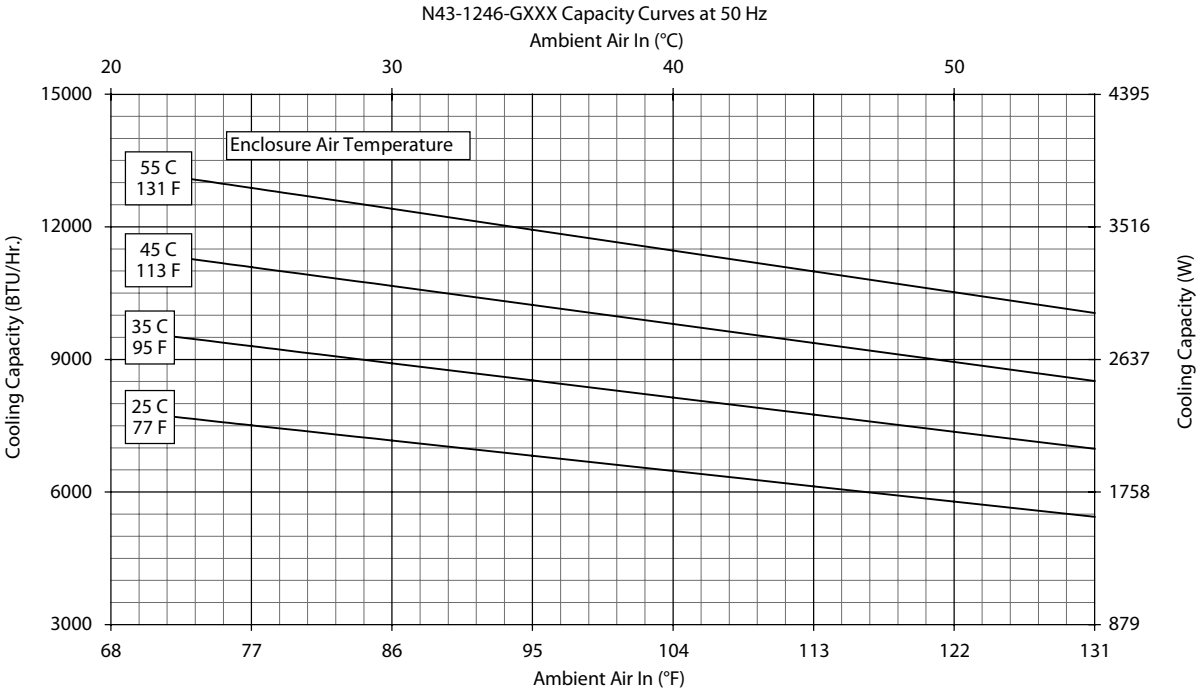


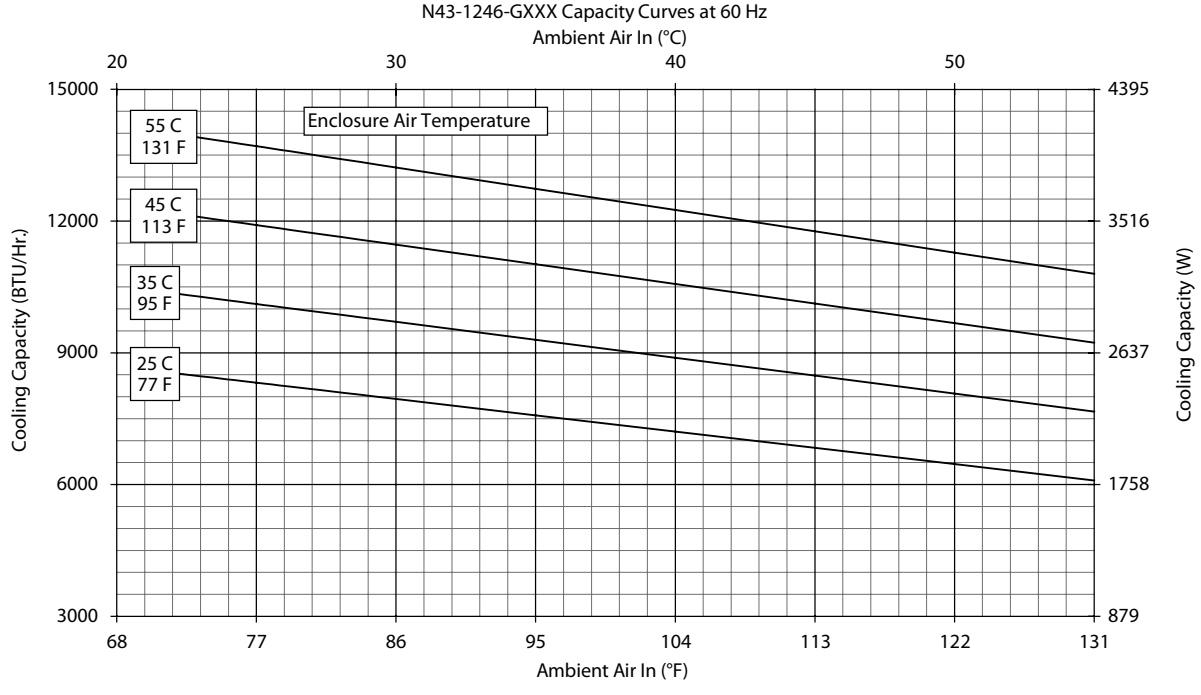
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)



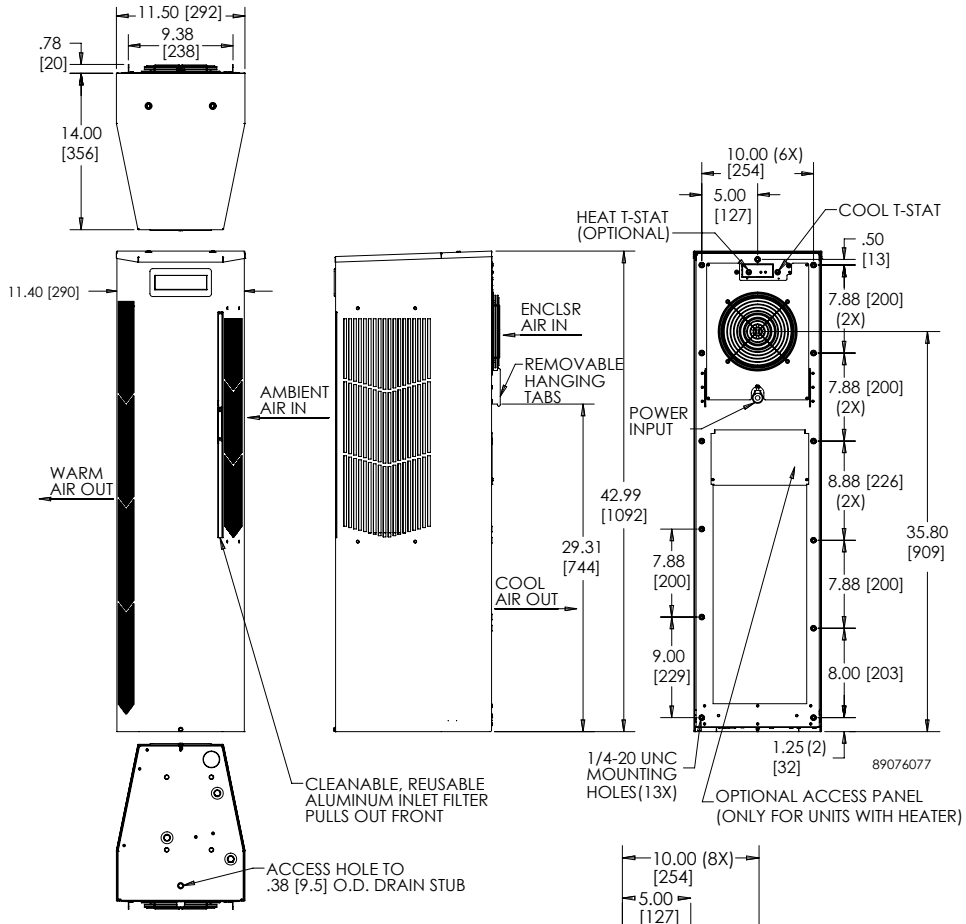


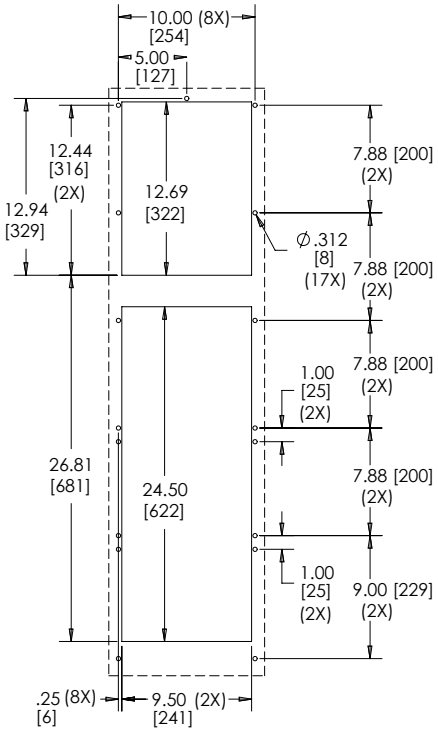
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)





N43 12000 BTU/Hr. (3516 Watt)





CUTOUT INSTRUCTIONS

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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SPECTRACOOL COMPACT INDOOR

INDUSTRY STANDARDS

UL/cUL Listed; Type 12; File No. SA6453 for N17
UL/cUL Listed; Type 12, 3R, 4, 4X optional; File No. SA6453 and UR/cUR Recognized on select models for N16 and N21

CE
IP 54 Internal Loop
IP 34 External Loop
EAC
Telcordia GR-487 capable
Reference performance data tables for agency approvals applied to each model.

APPLICATION

- Industrial automation
- Package handling equipment
- Security and defense systems

FEATURES

- Narrow design accommodates 12-in. deep cabinets
- R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 VAC power input
- UL Listed to save customers time and money with agency approvals
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat is located behind the cover of the unit; Air Conditioner models include digital display on ambient side
- Galvanized sheet-metal cover for rugged factory environments
- Easy-mount flanges for simple installation
- Cutout adapter options for enclosures with GENESIS air conditioners enable users to easily transition to the new unit
- Dust-resistant condenser coil allows the unit to be run filterless in most applications
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Active condensate management
  - Power-off relay for door switch and other system requirements
  - Malfunction switch

SPECIFICATIONS

- Nominal cooling capacity:
  N17 1000 BTU/Hr. (293 W)
  N17 1800 BTU/Hr. (527 W)
- Operating temperature range from 50 F/10 C to 125 F/52 C

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

NOTES

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EtherNet/IP ODVA PI PROFIBUS • PROFINET

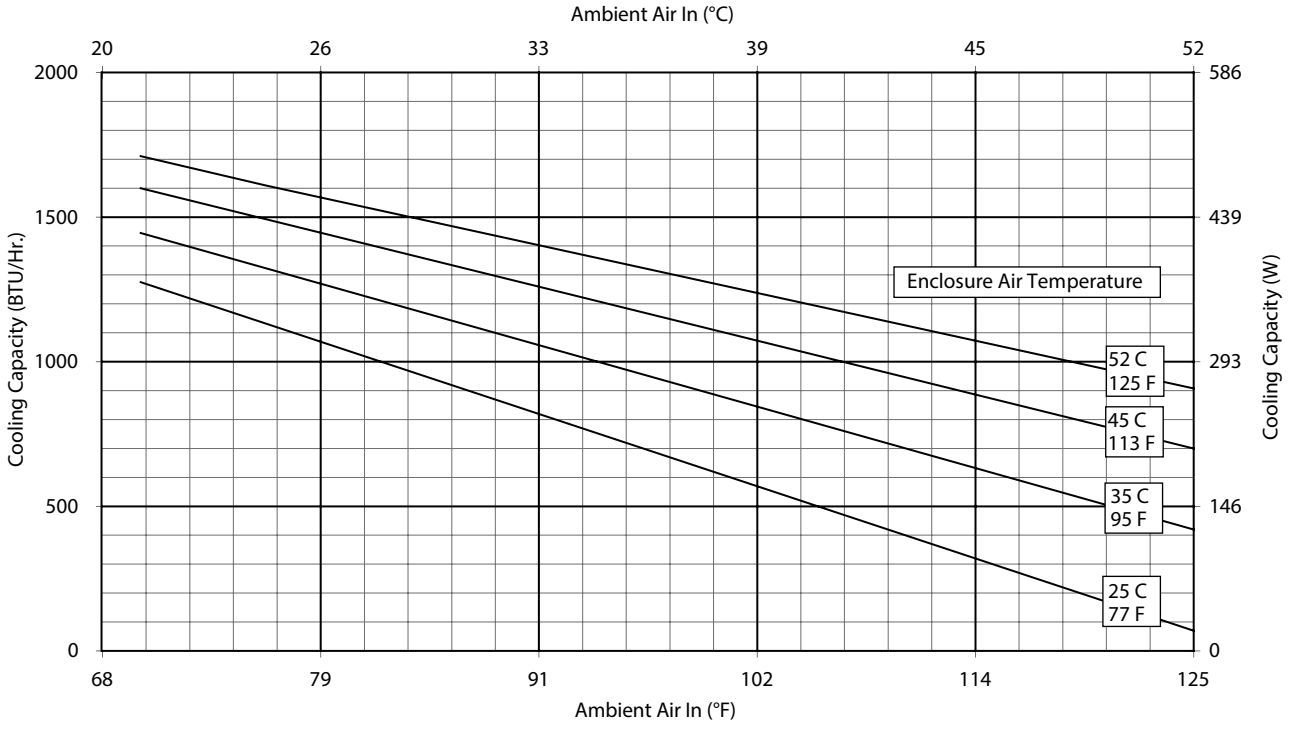
Performance Data **N17 Models 1000/1800 BTU/Hr. (300/527 Watt)**

CATALOG NUMBER						
Indoor Model	N170116G010	N170126G010	N170146G010	N170216G010	N170226G010	N170246G010
Indoor Model with Remote Access Control*	N170116G020	N170126G020	N170146G020	N170216G020	N170226G020	N170246G020
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**908/1025**	**908/1025**	**908/1025**	**1500/1800**	**1500/1800**	**1500/1800**
Watts	**266/300**	**266/300**	**266/300**	**440/527**	**440/527**	**440/527**
Refrigerant	R-134a	R-134a	R-134a	R-134a	R-134a	R-134a
Refrigerant Charge (ounces/grams)	5/142	5/142	5/142	5.5/156	5.5/156	5.5/156
Operating Temperature Range:						
Maximum (°F/°C)	125/52	125/52	125/52	125/52	125/52	125/52
Minimum (°F/°C)	50/10	50/10	50/10	50/10	50/10	50/10
Airflow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	57/97	57/97	57/97	61/104	61/104	61/104
External loop 50 Hz (CFM / m^3/hr.)	96/163	96/163	96/163	98/167	98/167	98/167
Internal loop 60 Hz (CFM / m^3/hr.)	67/114	67/114	67/114	72/122	72/122	72/122
External loop 60 Hz (CFM / m^3/hr.)	114/194	114/194	114/194	118/200	118/200	118/200
ELECTRICAL DATA						
Rated Voltage	**110/115**	**220/208-230**	**400/460**	**110/115**	**220/208-230**	**400/460**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	337/356	345/376	375/407	642/728	639/667	543/603
Max. Nominal Current (A at 50/60 Hz)	4.4/3.9	1.2/1.2	2.3/2.1	7.0/7.1	4.0/3.5	2.0/2.0
Starting Current (A)	18	4.25	8.5	28	14.4	7.2
Agency Approvals	UL/cUL Listed CE					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 12					
IP	IP 54 Internal Loop IP 34 External Loop					
CONTROLLER (...G010 Models)						
Thermostat Location	Behind Cover, Right Side					
Factory Thermostat Setting (°F/°C)	80/27					
CONTROLLER (...G020 Models)						
Thermostat Location	Ambient Side					
Factory Thermostat Setting (°F/°C)	80/27					
SOUND LEVEL						
At 1.5 Meters	65.0 dBA					
UNIT CONSTRUCTION						
Material	Galvanized sheet metal standard					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
ACCESSORIES						
EASYSWAP Adaptor Plenum (GENESIS M13)	Enables SPECTRACOOL to be mounted to a GENESIS M13 air conditioner cutout Catalog Number PLM13N17 NOTE: EASYSWAP adaptor plenum not required for M17. It is the same cutout as N17.					
UNIT DIMENSIONS						
Height (in./mm)	17.64/448.1	22.14/562.4	17.64/448.1	17.64/448.1	17.64/448.1	22.14/562.4
Width (in./mm)	12.0/304.8	12.0/304.8	12.0/304.8	12.0/304.8	12.0/304.8	12.0/304.8
Depth (in./mm)	8.4/213.4	8.4/213.4	8.4/213.4	8.4/213.4	8.4/213.4	8.4/213.4
Weight (lb./kg)	50/23	66/30	50/23	54/25	54/25	73/33

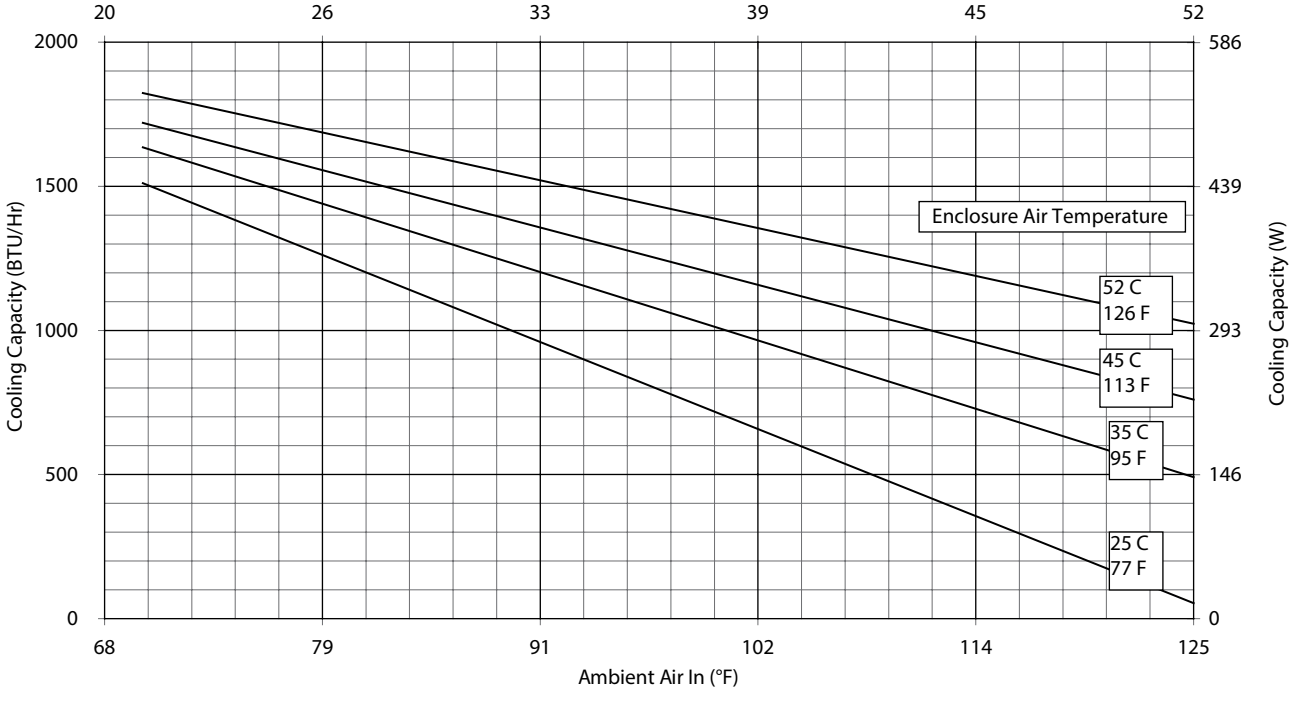
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for N17 Models 1000 BTU/Hr. (293 Watt)

N17-0116-GXXX Capacity Curves at 50 Hz

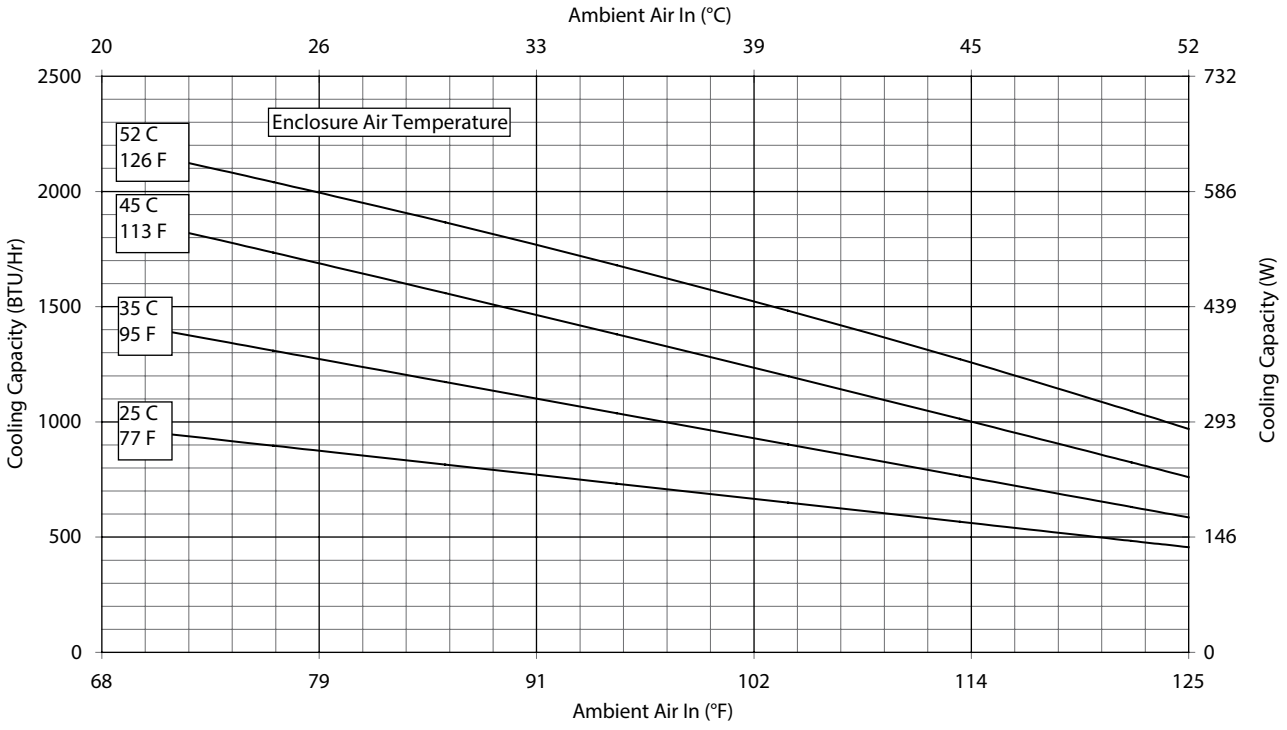


N17-0116-GXXX Capacity Curves at 60 Hz

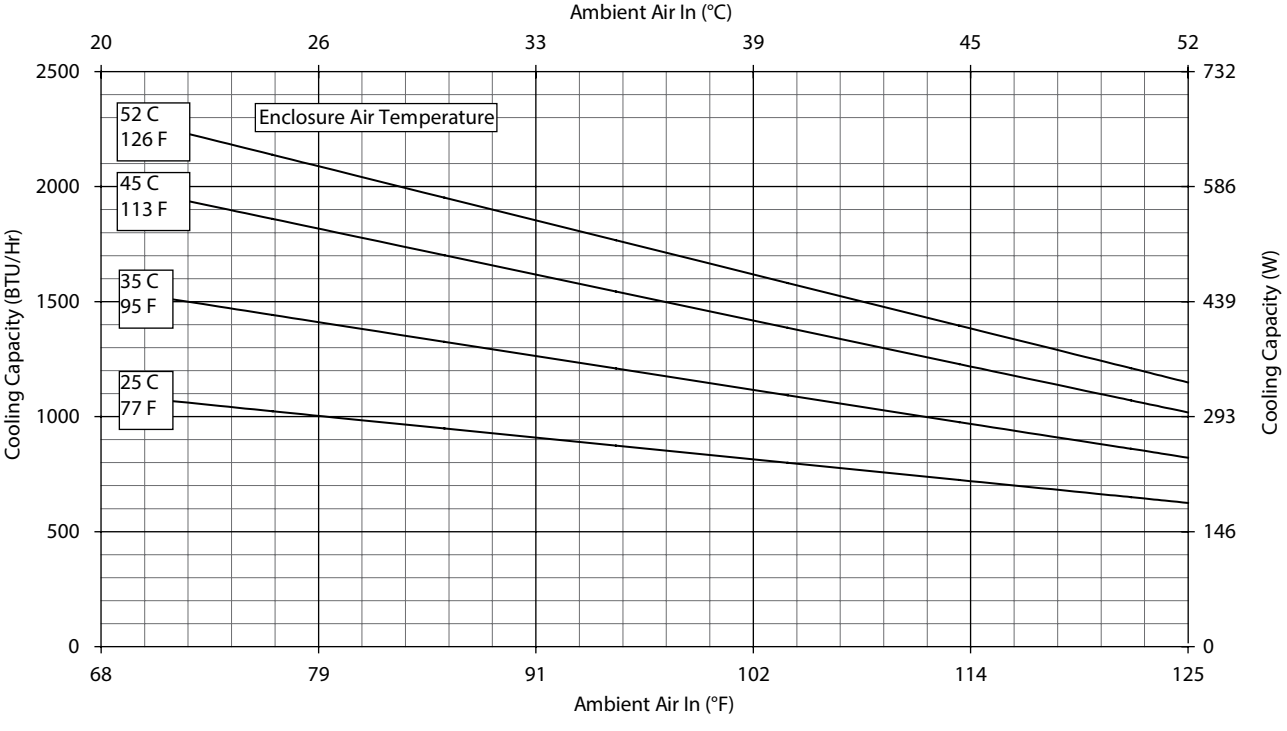


Performance Curves for N17 Models 1000/2000 BTU/Hr. (293/585 Watt)

N17-01(2/4)6-GXXX Capacity Curves at 50 Hz

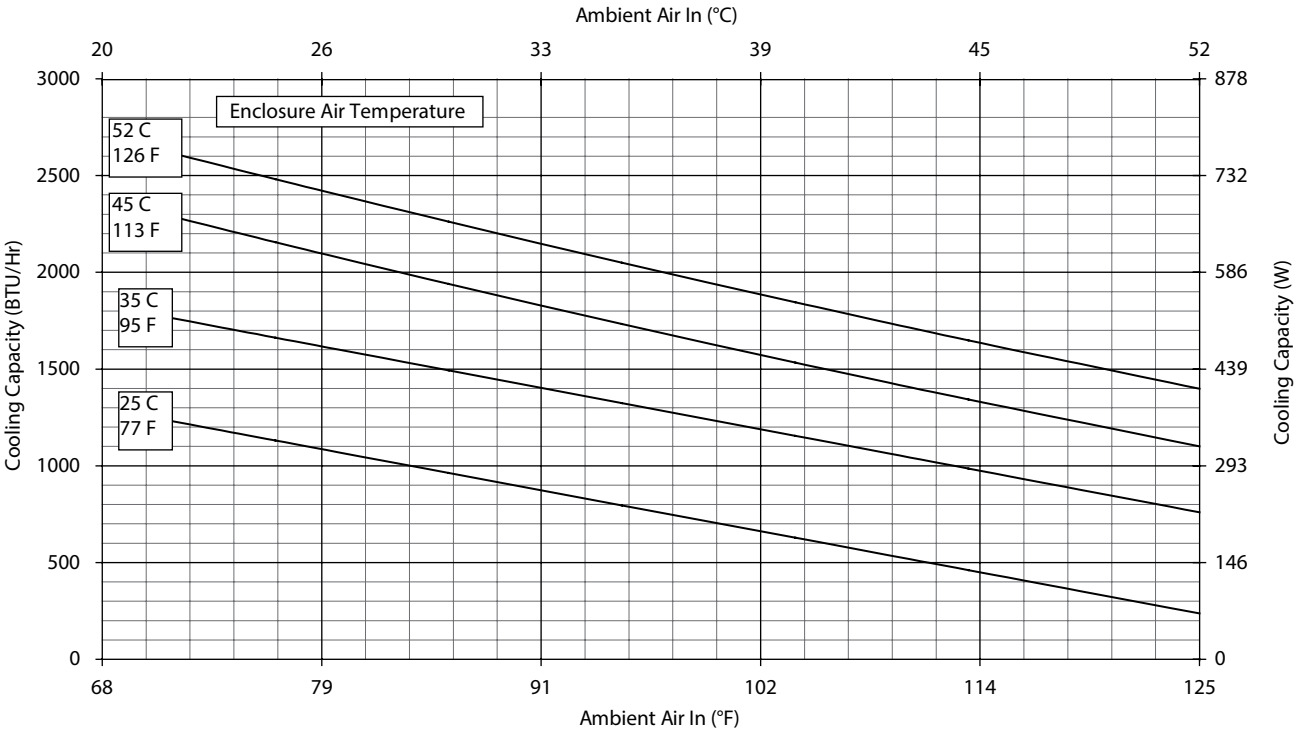


N17-01(2/4)6-GXXX Capacity Curves at 60 Hz

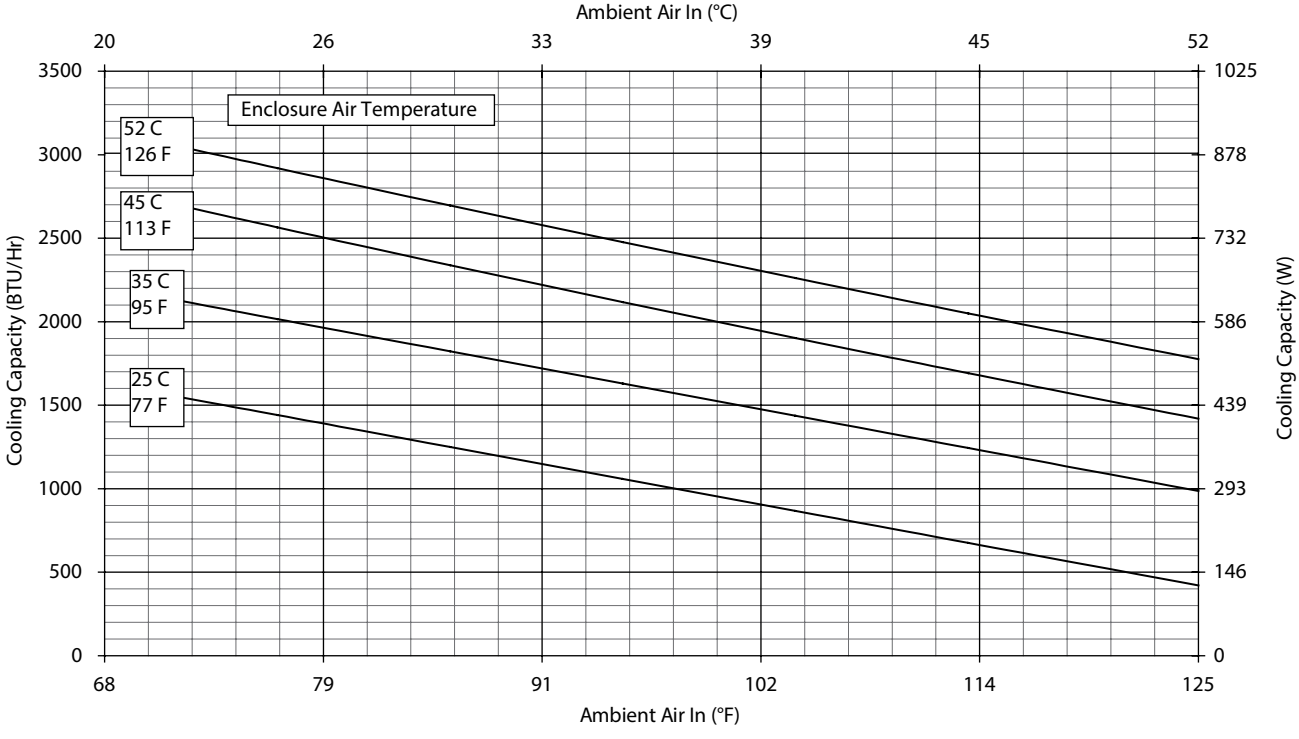


Performance Curves for N17 Models 1000 BTU/Hr. (293 Watt)

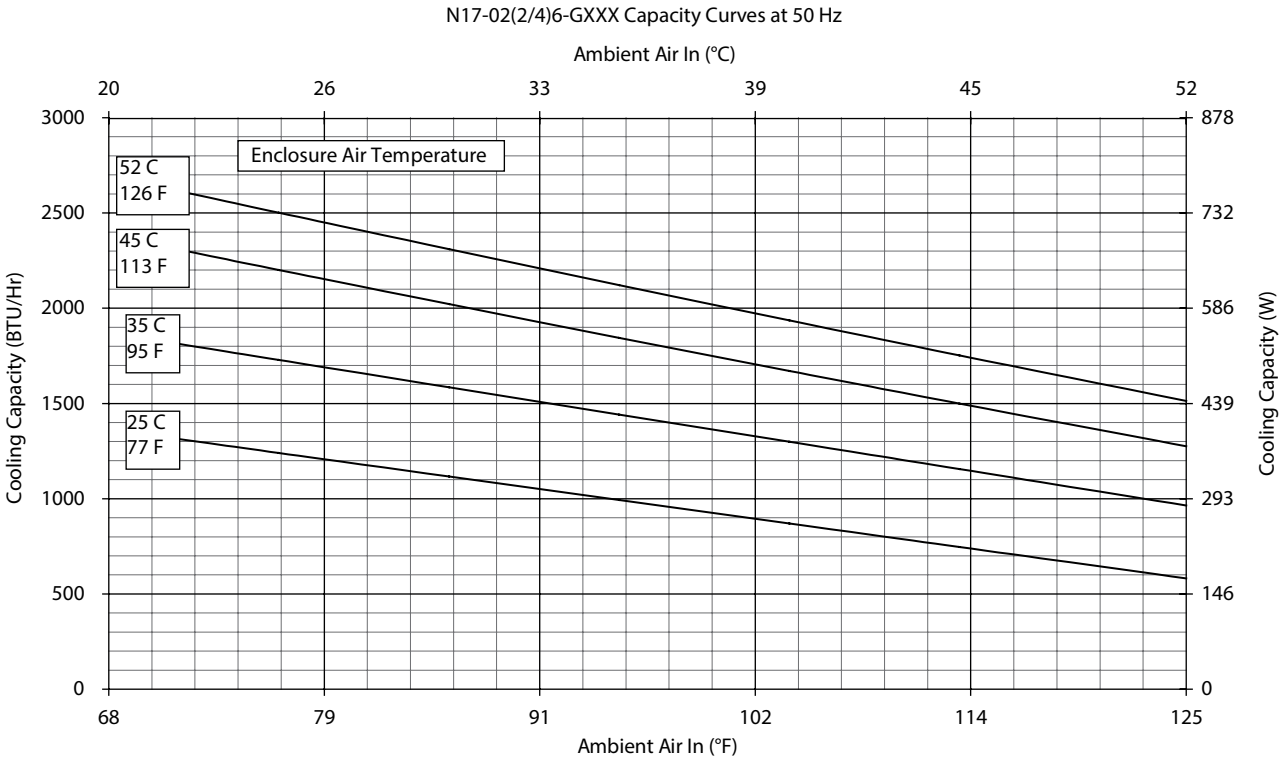
N17-0216-GXXX Capacity Curves at 50 Hz

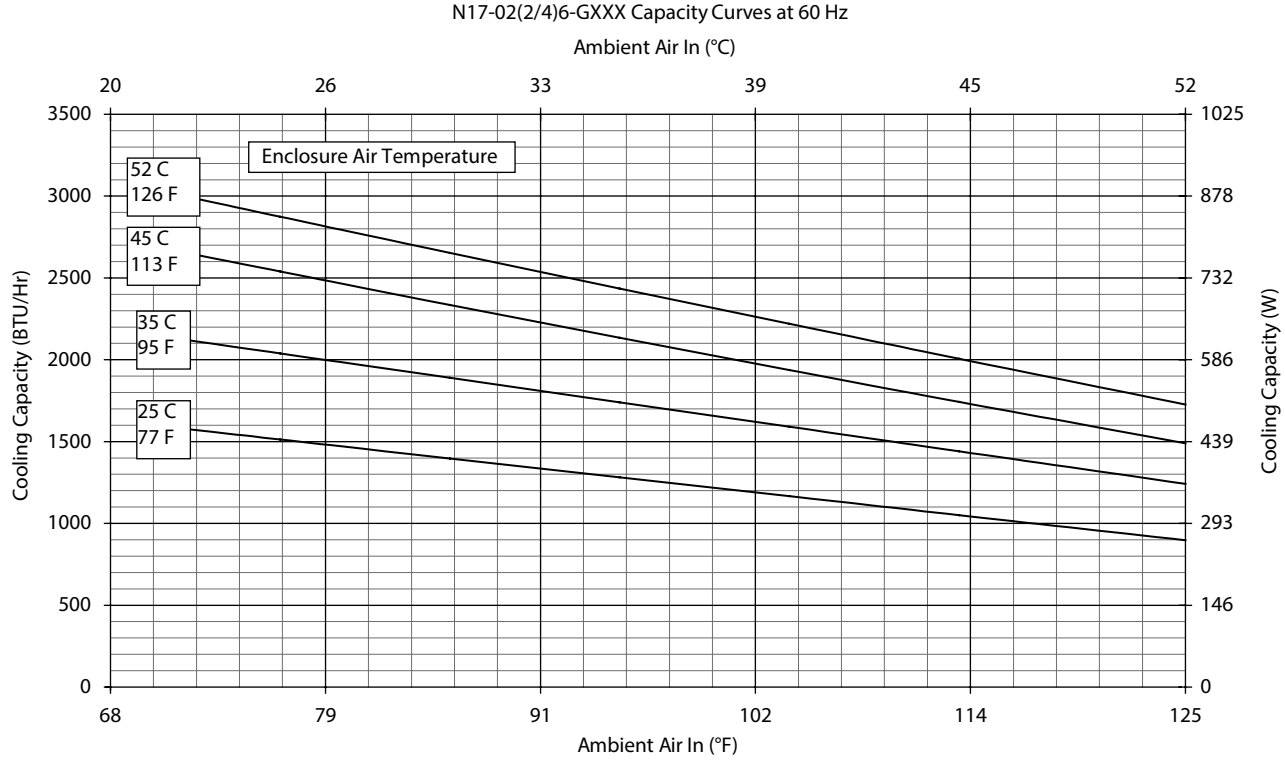


N17-0216-GXXX Capacity Curves at 60 Hz

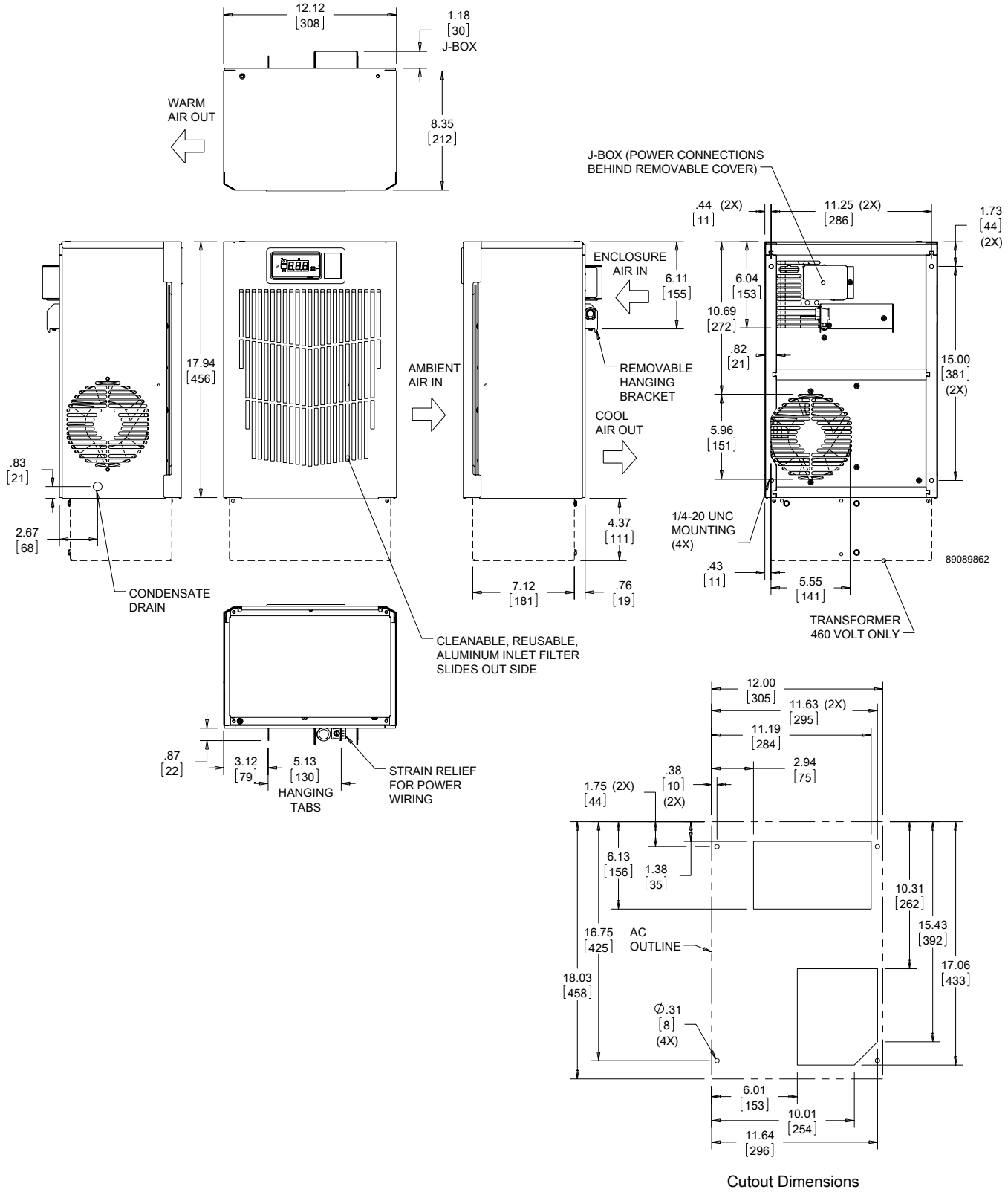


Performance Curves for N17 Models 1000/2000 BTU/Hr. (293/585 Watt)





N17 Models 1000/1800 BTU/Hr. (300/527 Watt)



Cutout Dimensions

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Notes

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SPECTRACOOL HAZARDOUS LOCATION INDOOR/OUTDOOR

NHZ43
11000 BTU/Hr.
3223 Watt

NHZ36
6000/8000 BTU/Hr.
1758/2344 Watt

NHZ28
4000 BTU/Hr.
1172 Watt

FEATURES

- Engineered specifically for hazardous location cooling. Not rebuilt from light industrial air conditioners
- Attractive design with no heavy cast enclosure and minimal use of visible fasteners
- Does not require purge and pressurized system
- Corrosion resistant coating on ambient side components for Type 4X models
- Corrosion resistant coating on ambient and enclosure side components for Type 4X Offshore models
- Dust resistant coils for filterless operation in most environments
- Cleanable, reusable aluminum mesh filter protects coils for extremely dusty and dirty atmospheres
- Digital temperature control
- Narrow design to accommodate 12-in (300-mm) deep cabinets
- R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 3-phase VAC power input
- UL Listed to save customers time and money with agency approvals
- Easy-Mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Type 4/4X models include:
  - Active condensate management with heater strip
  - Compresser Heater
  - Head Pressure Control
  - Power-off relay for door switch and other system requirements
  - Malfunction switch

INDUSTRY STANDARDS

UL/cUL Listed; Type 4; 4X; File No. E469720

CE
Class 1 Div 2 Groups A, B, C, D T4A

APPLICATION

- Onshore and Offshore Oil and Gas
- Chemical and petrochemical
- Mining
- Pharmaceutical
- Any location with potentially hazardous atmospheres created by vapor

SPECIFICATIONS

- Nominal cooling capacities:
  NHZ28 4000 BTU/hr. (1172 W)
  NHZ36 6000 & 8000 BTU/hr. (1758 and 2344 W)
  NHZ43 11000 BTU/hr. (3223 W)
- Outdoor model operating temperature range from -40 F/ -40 C to 131 F/ 55 C (125 F/52 C on NHZ28 Series and NHZ43 Series 115V)

FINISH

- Type 4 models RAL 7035 light-gray, semi-textured powder-coat paint
- Type 4X and Offshore models Stainless Steel 316L

NOTES

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EtherNet/IP ODVA PI PROFIBUS • PROFINET

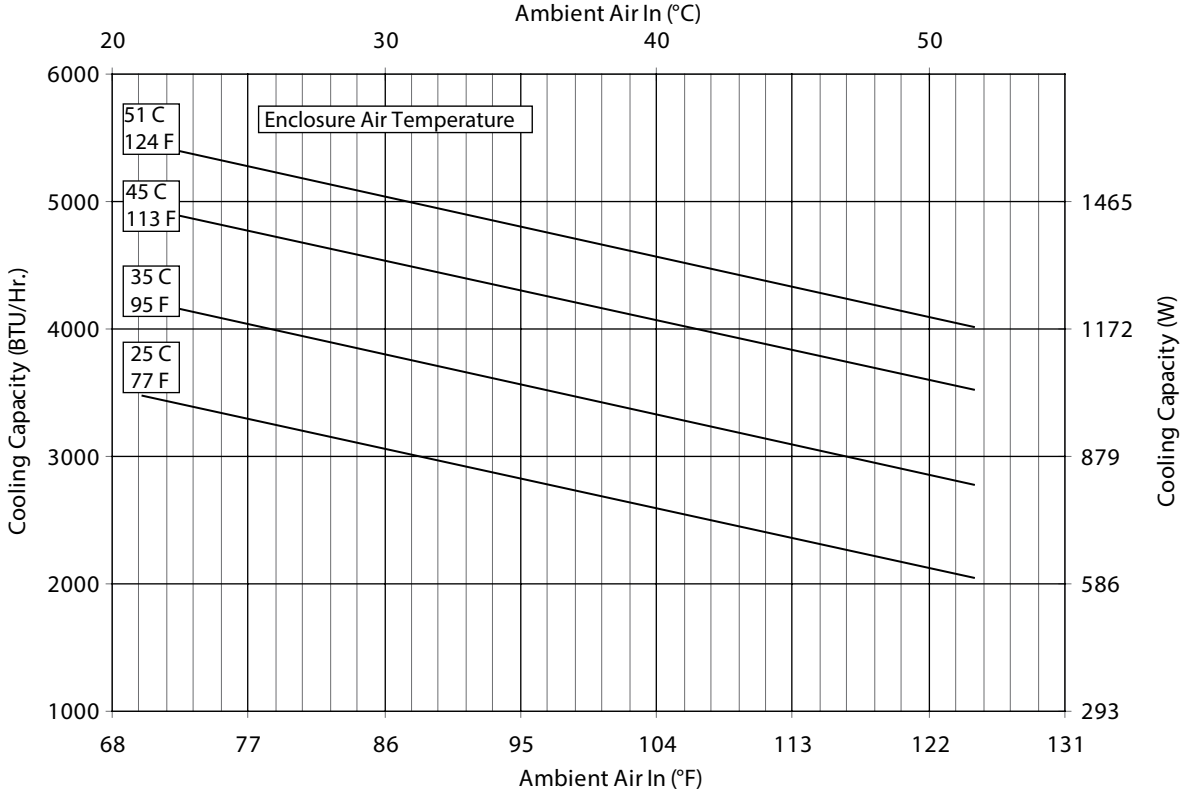
Performance Data **NHZ28 4000 BTU/Hr. (1172 Watt)**

CATALOG NUMBER			
Painted Galvanized Steel Type 4	NHZ280416G300	NHZ280426G300	NHZ280446G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ280416G360	NHZ280426G360	NHZ280446G360
Stainless Steel Type 4X	NHZ280416G400	NHZ280426G400	NHZ280446G400
Stainless Steel Type 4X with Remote Access Control*	NHZ280416G460	NHZ280426G460	NHZ280446G460
Stainless Steel Type 4X Offshore	NHZ280416G500	NHZ280426G500	NHZ280446G500
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	**3800 / 4000**	**3800 / 4000**	**4000**
Watts	**1114 / 1172**	**1114 / 1172**	**1172**
At 125 F / 125 F (52 C / 52 C):			
BTU/Hr. (50 / 60 Hz)	3940 / 4104	4269 / 4703	4703
Watts (50 / 60 Hz)	1150 / 1000	1250 / 1378	1378
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	3754 / 4011	3700 / 4291	4291
Watts (50 / 60 Hz)	1100 / 1175	1086 / 1257	1257
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	10 / 283	11 / 312	11 / 312
Operating Temperature Range:			
Maximum (°F / °C)	125/52	125/52	125/52
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	138 / 234	N/A	N/A
External loop 50 Hz (CFM / M^3/Hr)	268 / 455	N/A	N/A
Internal loop 60 Hz (CFM / M^3/Hr)	143 / 362	143 / 243	143 / 243
External loop 60 Hz (CFM / M^3/Hr)	288 / 728	288 / 489	288 / 489
ELECTRICAL DATA			
Rated Voltage	**110 / 115**	**230**	**400-460/460**
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	930 / 1001	972 / 1106	972 / 1106
Max. Nominal Current (Amps at 50 / 60 Hz)	10.2 / 9.4	4.9 / 5.0	2.4 / 2.5
Starting Current (Amps)	40	24.5	12.5
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 4, 4X Standard	
CONTROLLER			
Description		Digital Controller	
Controller Location		Enclosure Side	
Factory Controller Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	66.1 dBA	65.5 dBA	65.5 dBA
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
UNIT DIMENSIONS			
Height (in / mm)		28 / 711.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	84/38	84/38	98/44

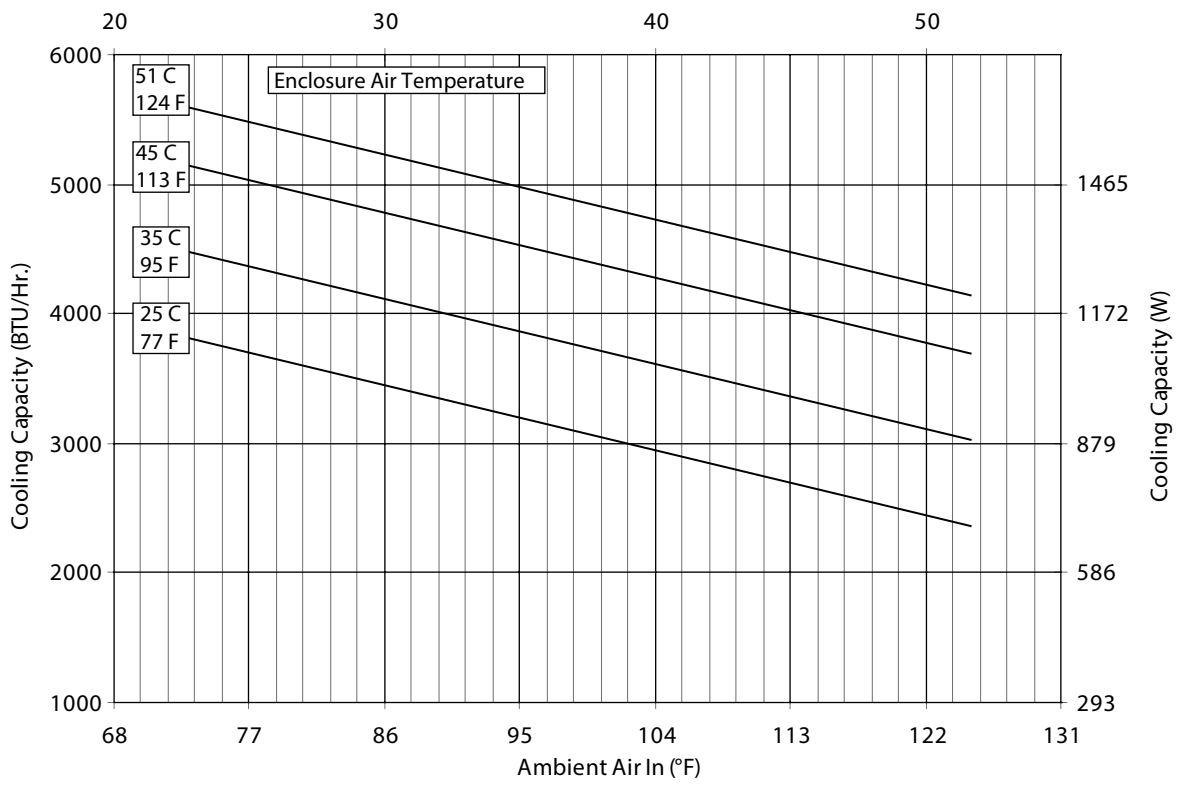
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)

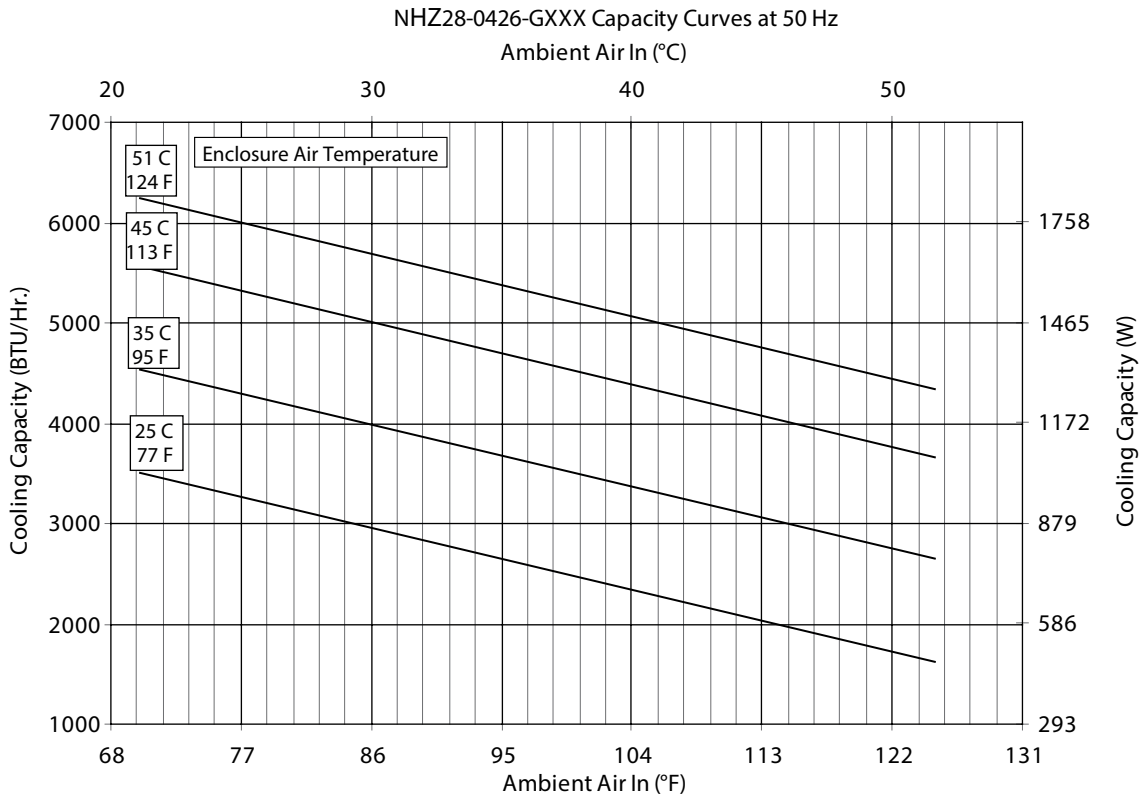
NHZ28-0416-GXXX Capacity Curves at 50 Hz

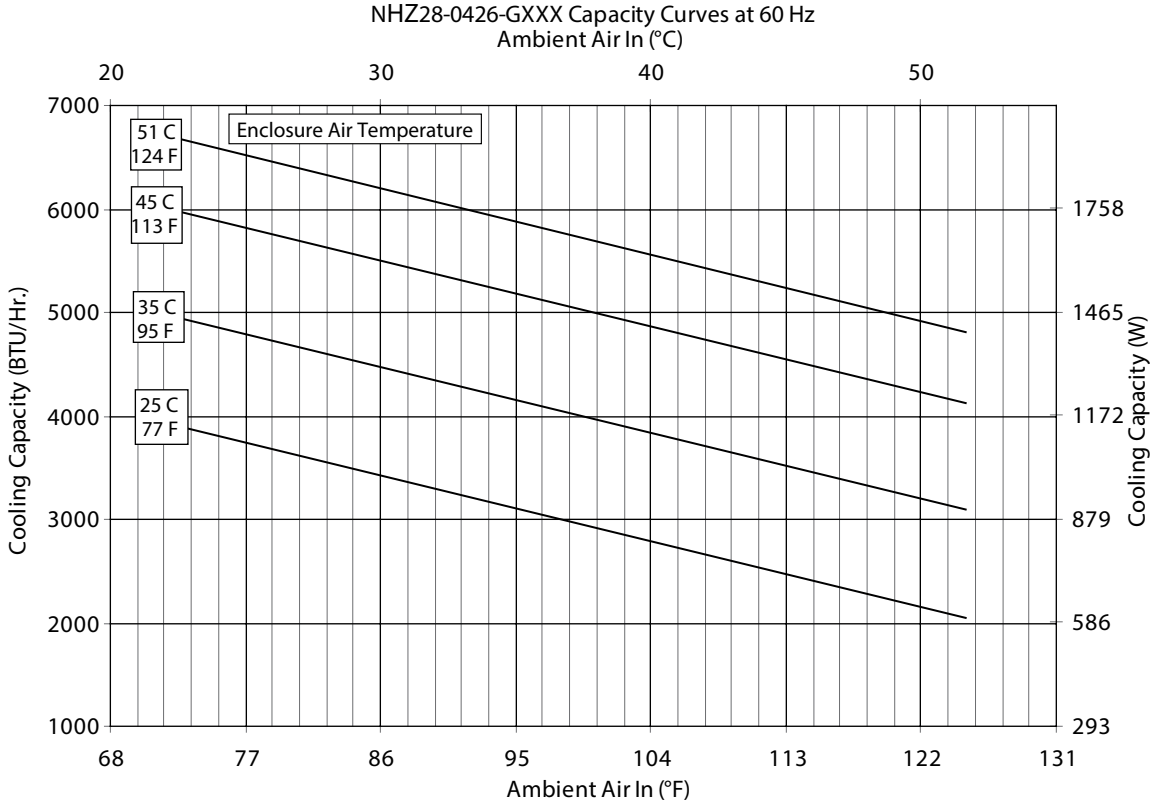


NHZ28-0416-GXXX Capacity Curves at 60 Hz

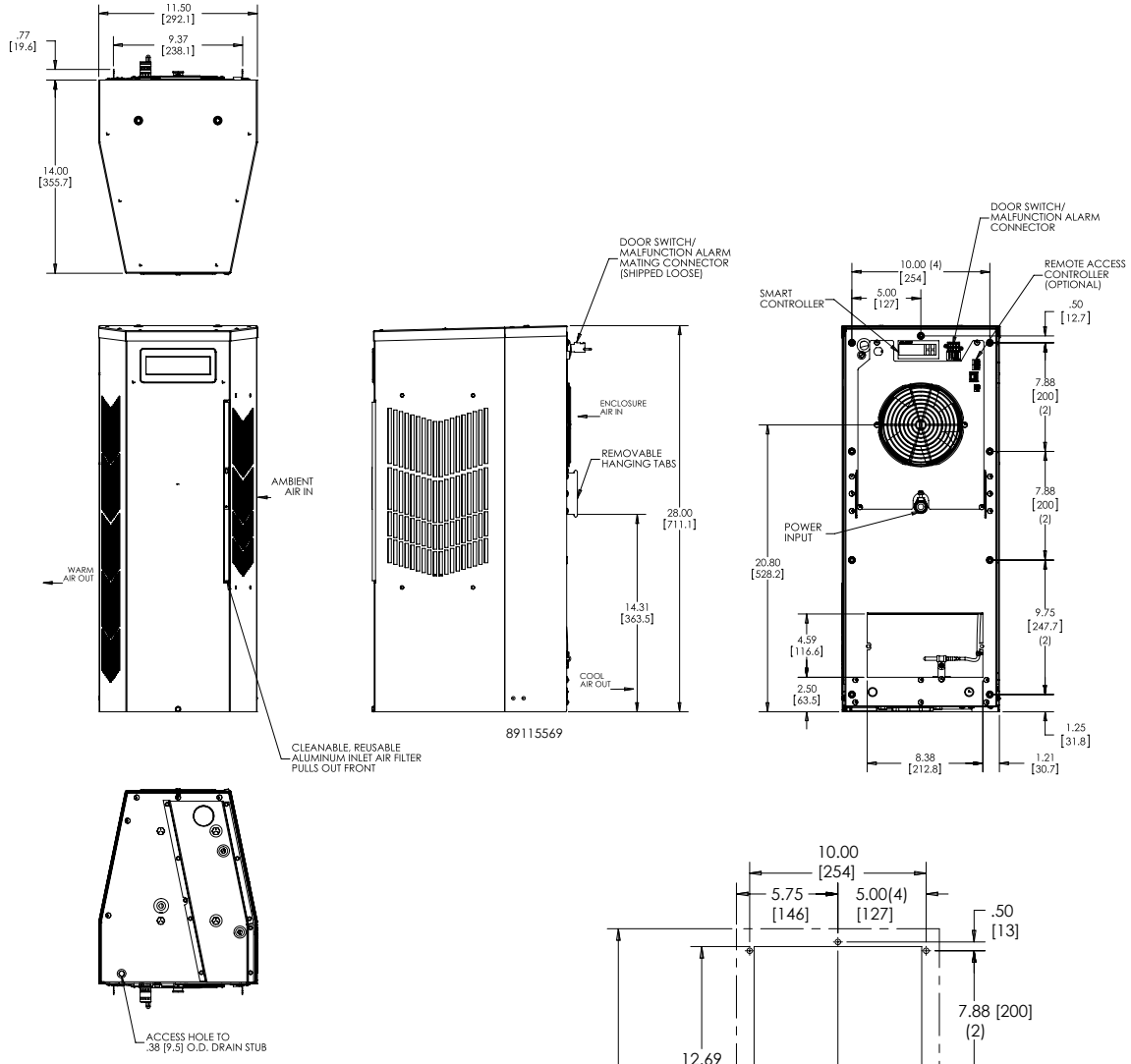


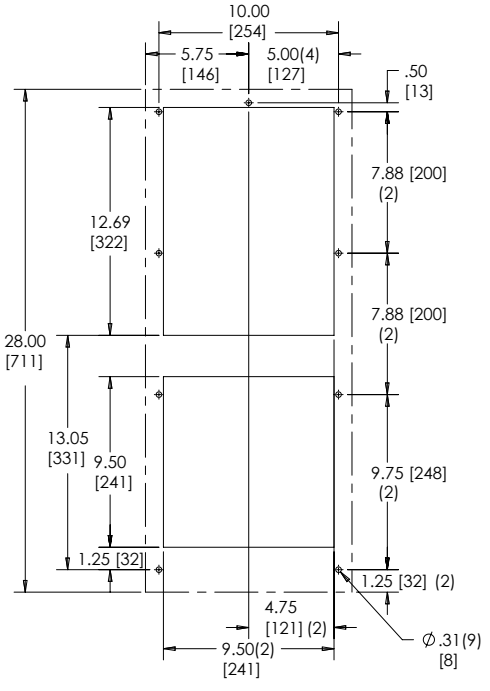
Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)





NHZ28 Models 4000 BTU/Hr. (1172 Watt)





Cutout Dimensions

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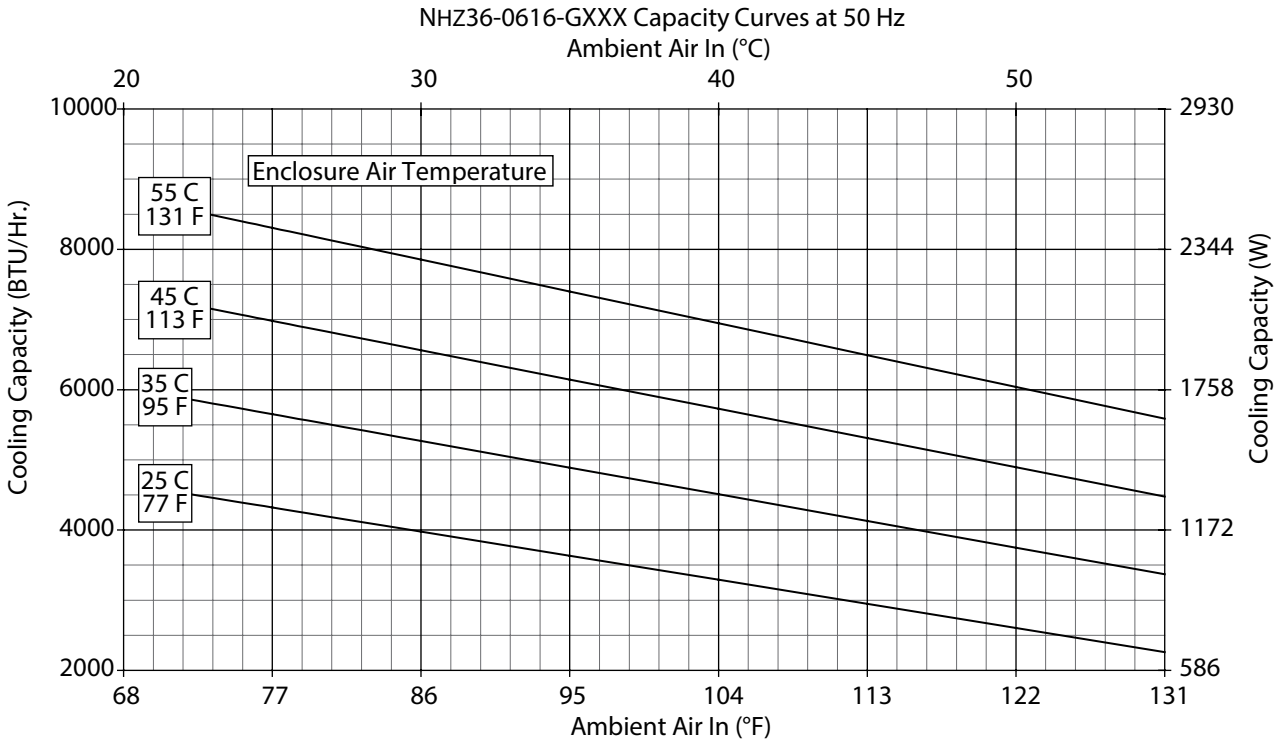
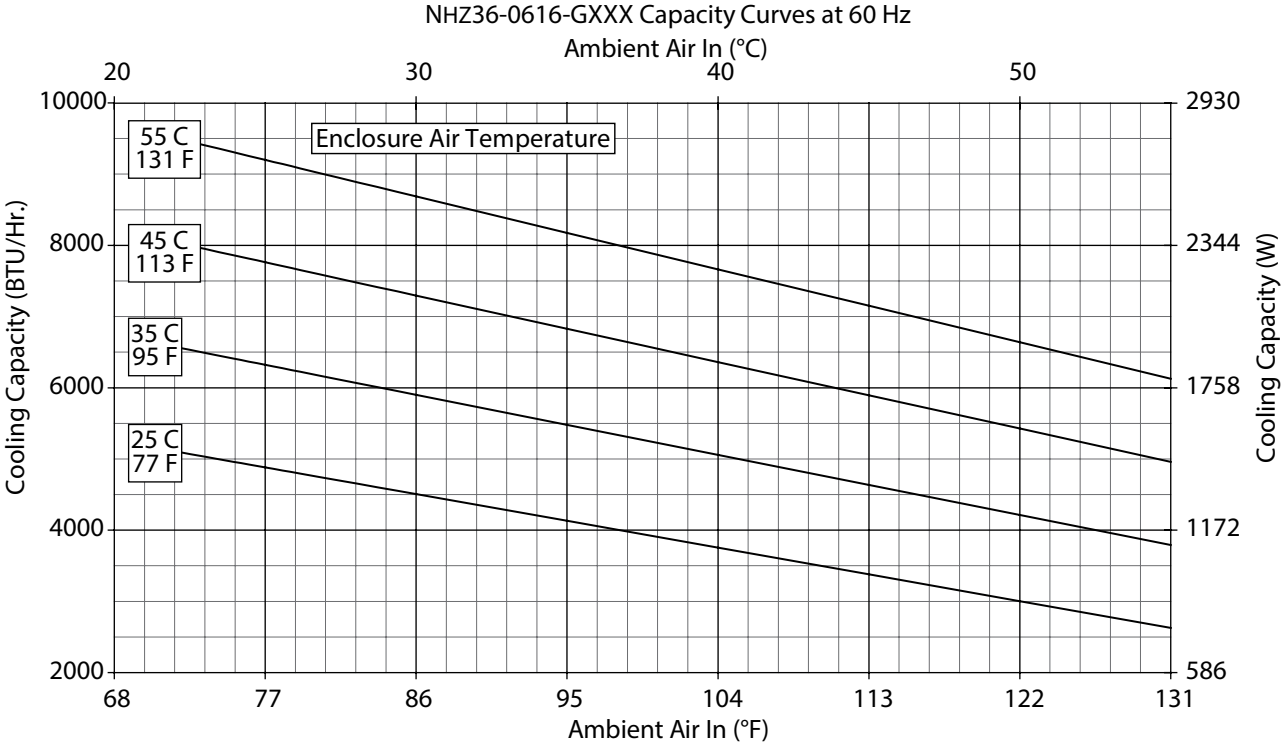
Performance Data **NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)**

CATALOG NUMBER						
Painted Galvanized Steel Type 4	NHZ360616G300	NHZ360626G300	NHZ360646G300	NHZ360816G300	NHZ360826G300	NHZ360846G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ360616G360	NHZ360626G360	NHZ360646G360	NHZ360816G360	NHZ360826G360	NHZ360846G360
Stainless Steel Type 4X	NHZ360616G400	NHZ360626G400	NHZ360646G400	NHZ360816G400	NHZ360826G400	NHZ360846G400
Stainless Steel Type 4X with Remote Access Control*	NHZ360616G460	NHZ360626G460	NHZ360646G460	NHZ360816G460	NHZ360826G460	NHZ360846G460
Stainless Steel Type 4X Offshore	NHZ360616G500	NHZ360626G500	NHZ360646G500	NHZ360816G500	NHZ360826G500	NHZ360846G500
COOLING PERFORMANCE						
Nominal:						
BTUs/Hr.	**5400 / 6000**	**5400 / 6000**	**5400 / 6000**	**8250 / 8500**	**8250 / 8500**	**8250 / 8500**
Watts	**1581 / 1757**	**1581 / 1757**	**1581 / 1757**	**2416 / 2489**	**2416 / 2489**	**2416 / 2489**
At 131 F / 131 F (55 C / 55 C):						
BTU/Hr. (50 / 60 Hz)	5585 / 6180	5469 / 5965	5300 / 6089	8213 / 8453	7874 / 8063	7777 / 8166
Watts (50 / 60 Hz)	1637 / 1811	1603 / 1748	1553 / 1785	2405 / 2475	2306 / 2361	2277 / 2391
At 95 F / 95 F (35 C / 35 C):						
BTU/Hr. (50 /60 Hz)	4909 / 5485	5159 / 5621	5572 / 6026	7028 / 7626	6660 / 7411	6877 / 7525
Watts (50 / 60 Hz)	1439 / 1607	1512 / 1647	1633 / 1766	2058 / 2233	1950 / 2170	2014 / 2203
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	20 / 567	22 / 624	16 / 454	36 / 1021	36 / 1021	36 / 1021
Operating Temperature Range:						
Maximum (°F / °C)	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / M^3/Hr)	251 / 426	250 / 425	250 / 425	250 / 425	245 / 416	243 / 413
External loop 50 Hz (CFM / M^3/Hr)	284 / 483	338 / 574	338 / 574	313 / 532	347 / 589	365 / 620
Internal loop 60 Hz (CFM / M^3/Hr)	261 / 443	261 / 443	261 / 443	263 / 447	258 / 439	254 / 432
External loop 60 Hz (CFM / M^3/Hr)	311 / 528	356 / 605	356 / 605	338 / 574	382 / 648	394 / 669
ELECTRICAL DATA						
Rated Voltage	115	230	400 / 460 3~	115	230	400 / 460 3~
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	911 / 1108	908 / 1073	691 / 783	1206 / 1422	1265 / 1403	572 / 628
Max. Nominal Current (Amps at 50 / 60 Hz)	9.1 / 10.1	4.5 / 4.7	1.7 / 1.8	11.2 / 12.4	5.5/6.2	3.0 / 3.4
Starting Current (Amps)	39.2	23	8.1	48.3	27	16
Agency Approvals	cUL Listed CE Others available upon request					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 4, 4X Standard					
CONTROLLER						
Description	Digital Controller					
Controller Location	Enclosure Side					
Factory Controller Setting (°F / °C)	80 / 27					
SOUND LEVEL						
At 1.5 Meters	66.9 dBA	66.7 dBA	68.2 dBA	66.0 dBA	66.0 dBA	66.0 dBA
UNIT CONSTRUCTION						
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
UNIT DIMENSIONS						
Height (in / mm)	36.00 / 914.4					
Width (in / mm)	11.50 / 292.1					
Depth (in / mm)	14.00 / 355.6					
Weight (lb / kg)	100 / 45	100 / 45	104 / 47	106 / 48	106 / 48	114 / 52

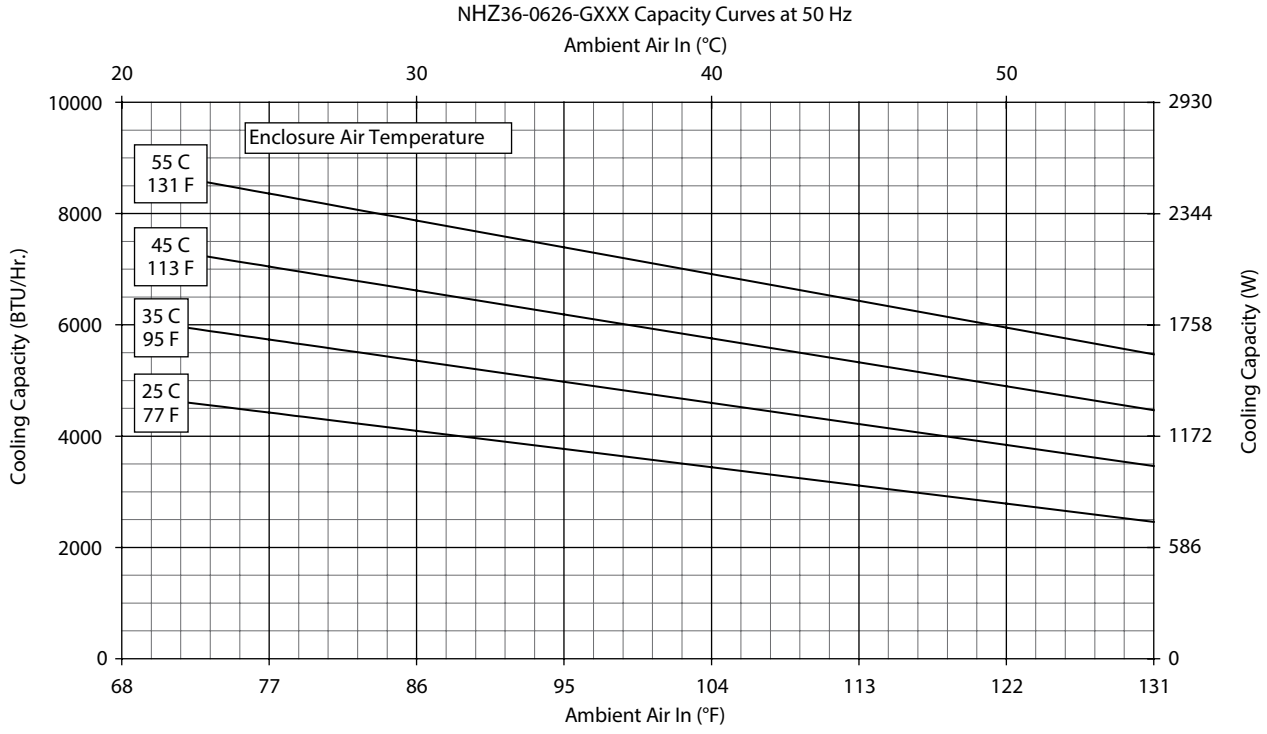
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

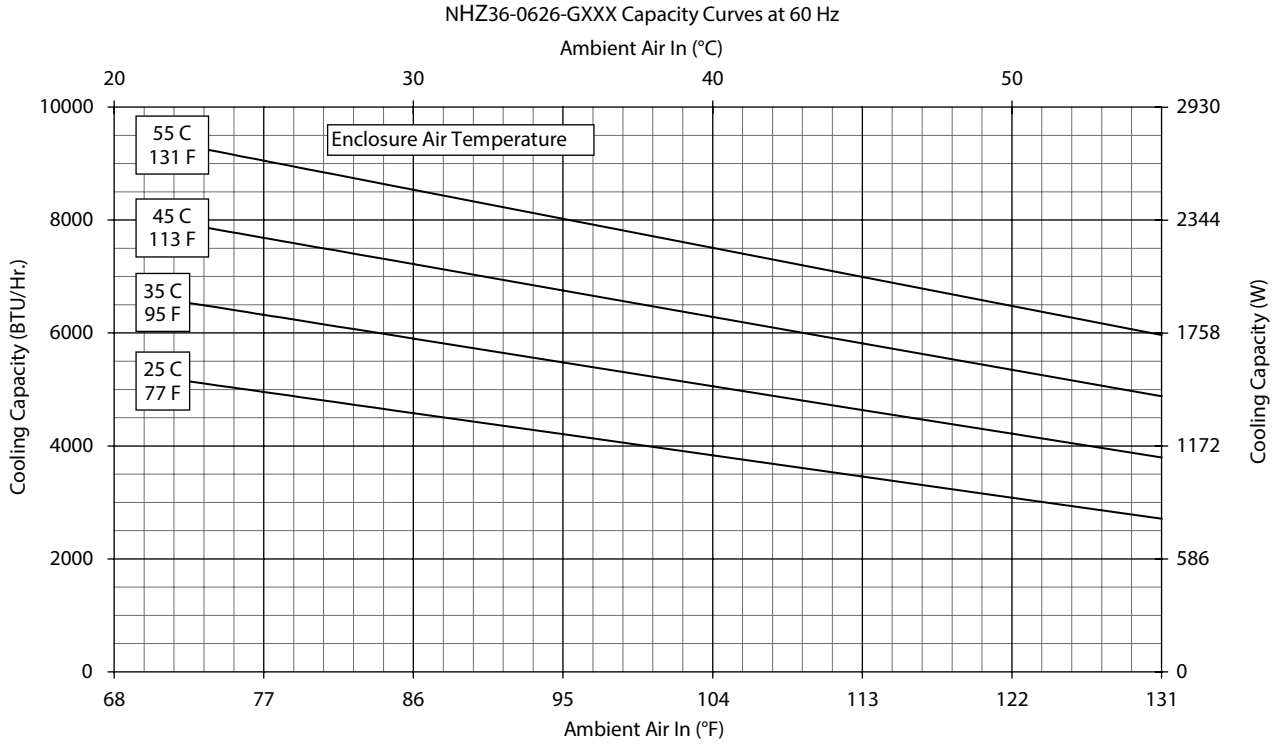
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)





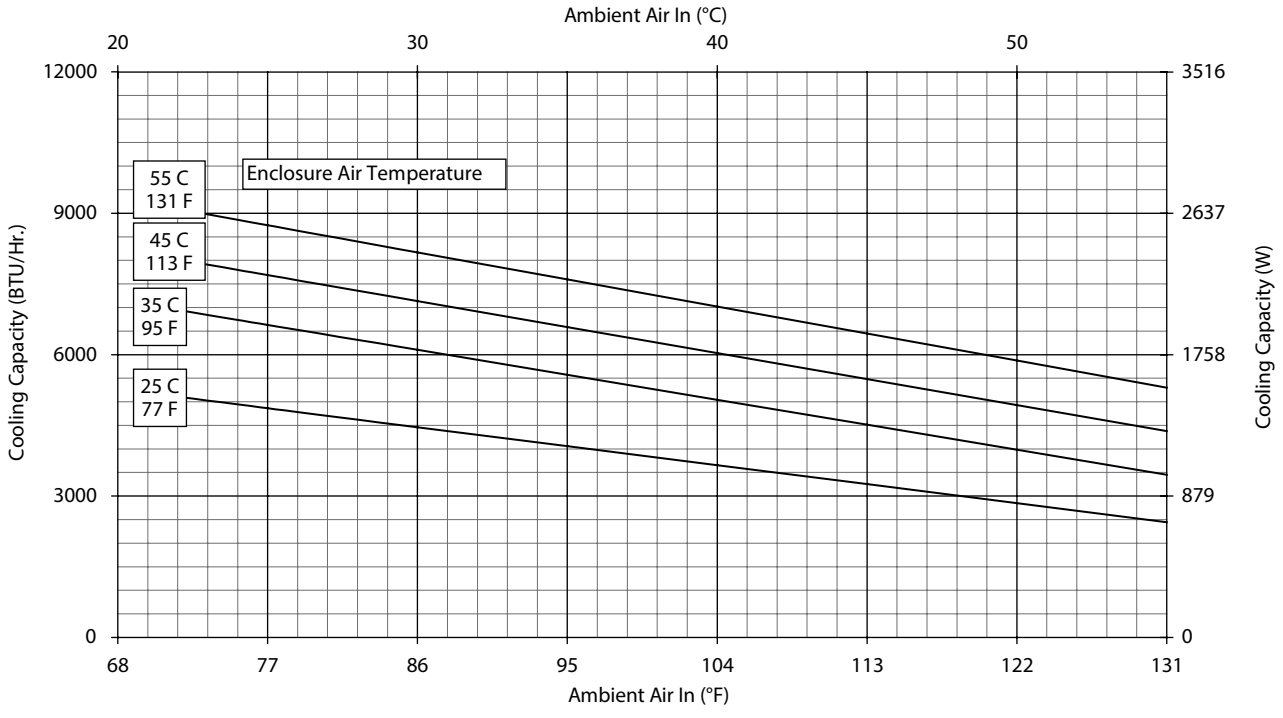
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)



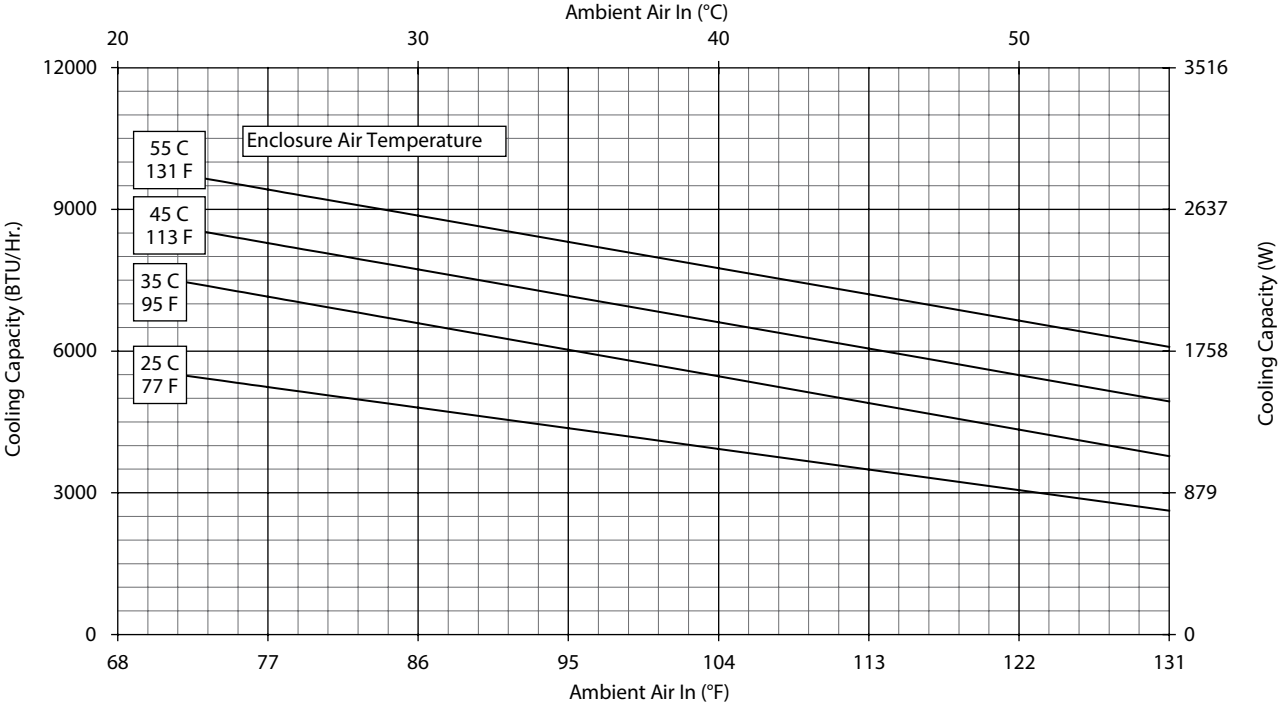


Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

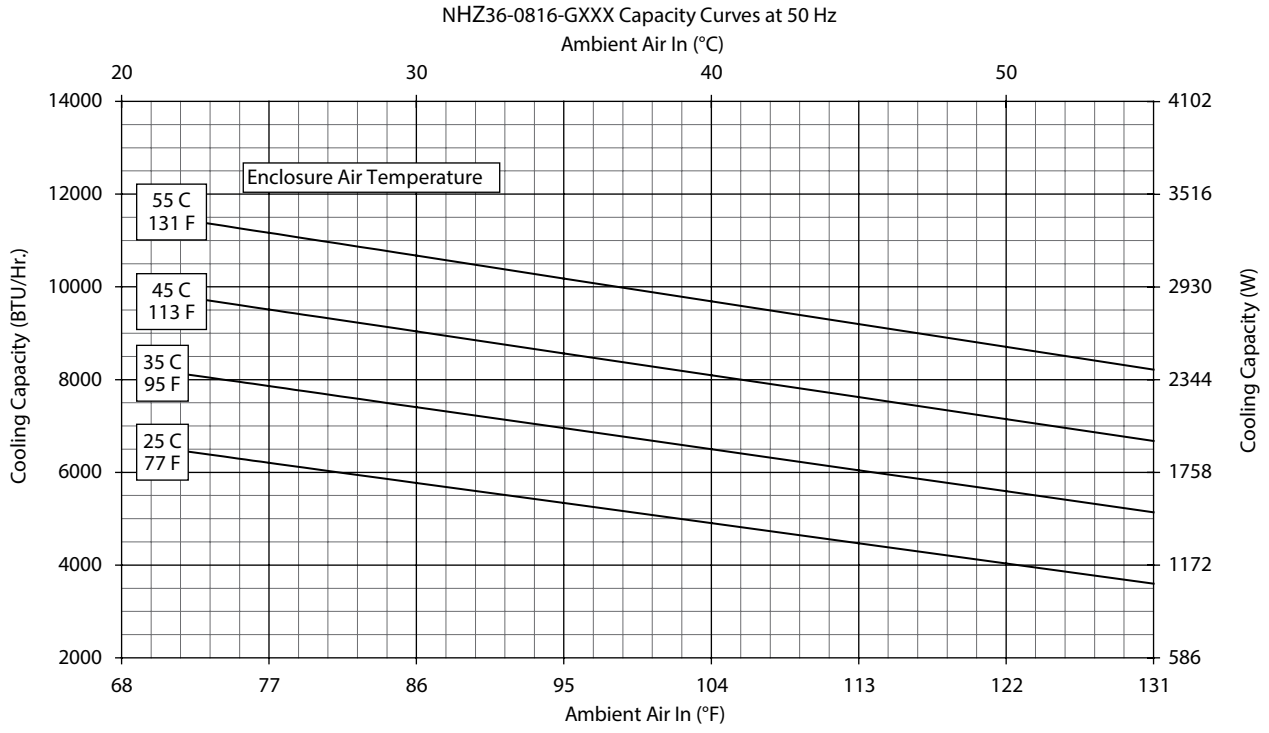
NHZ36-0646-GXXX Capacity Curves at 50 Hz

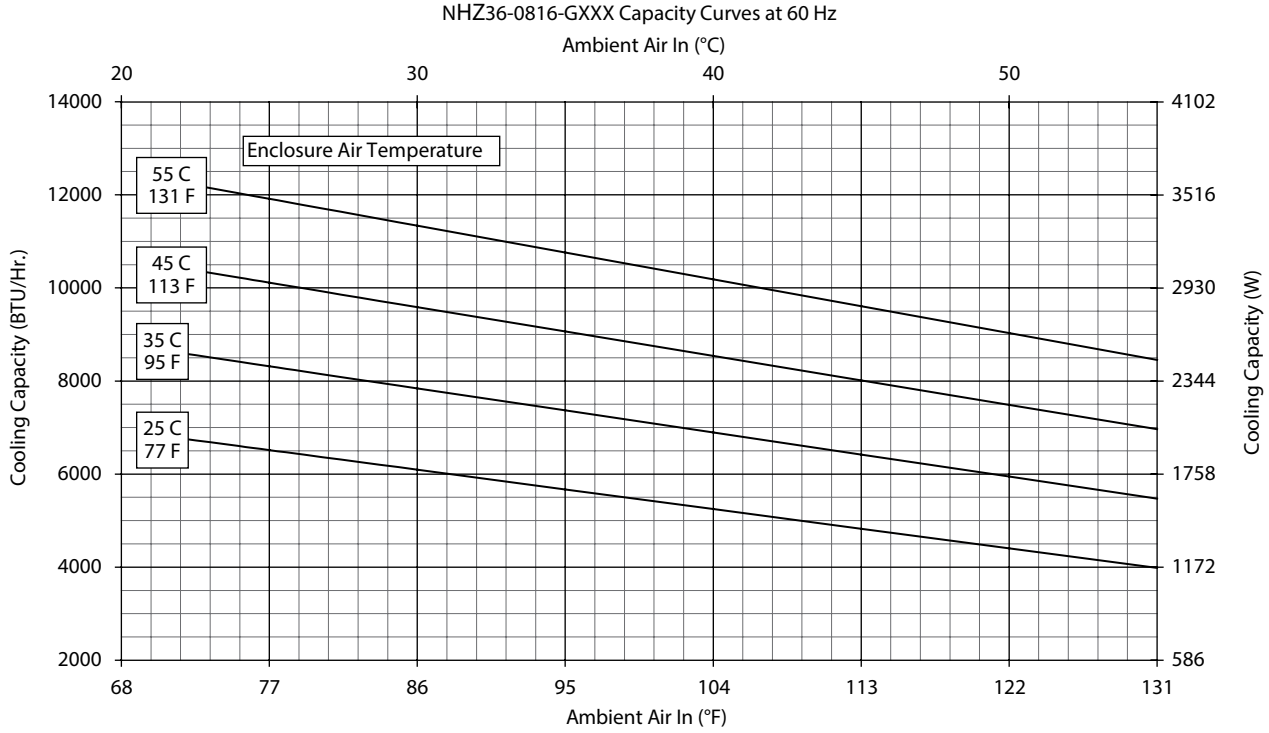


NHZ36-0646-GXXX Capacity Curves at 60 Hz

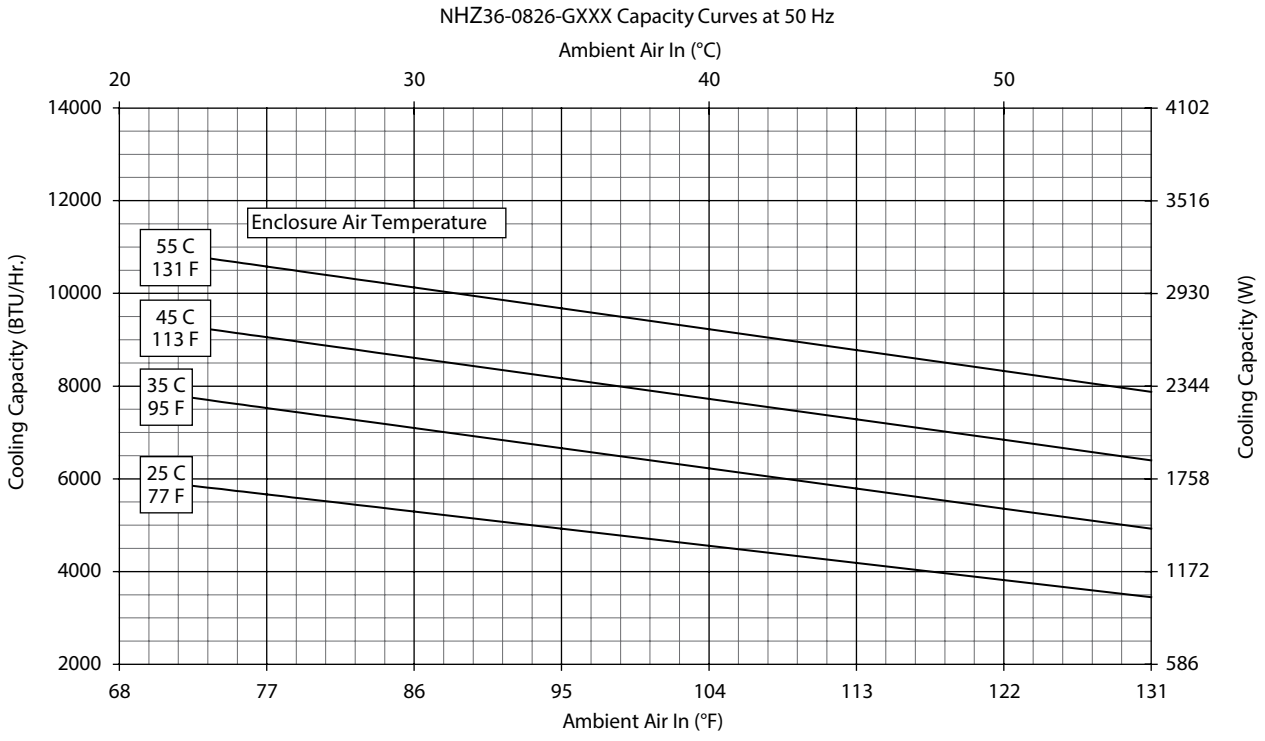


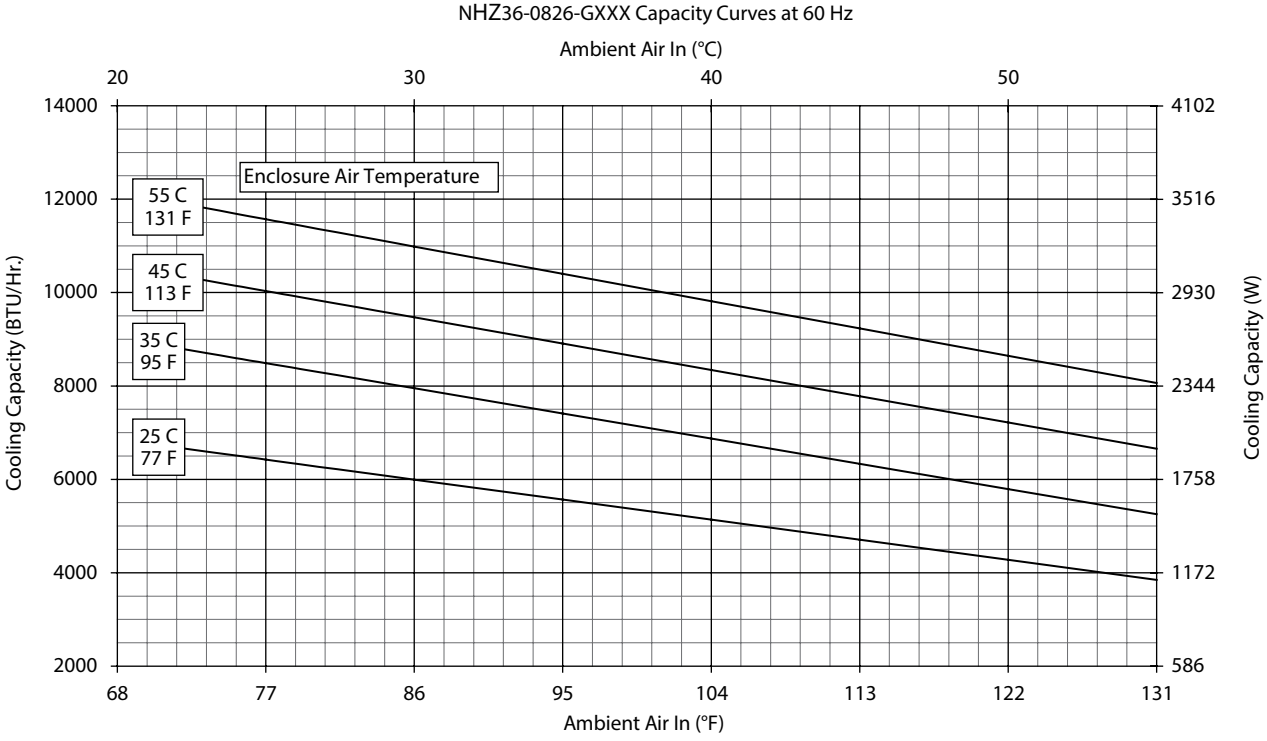
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



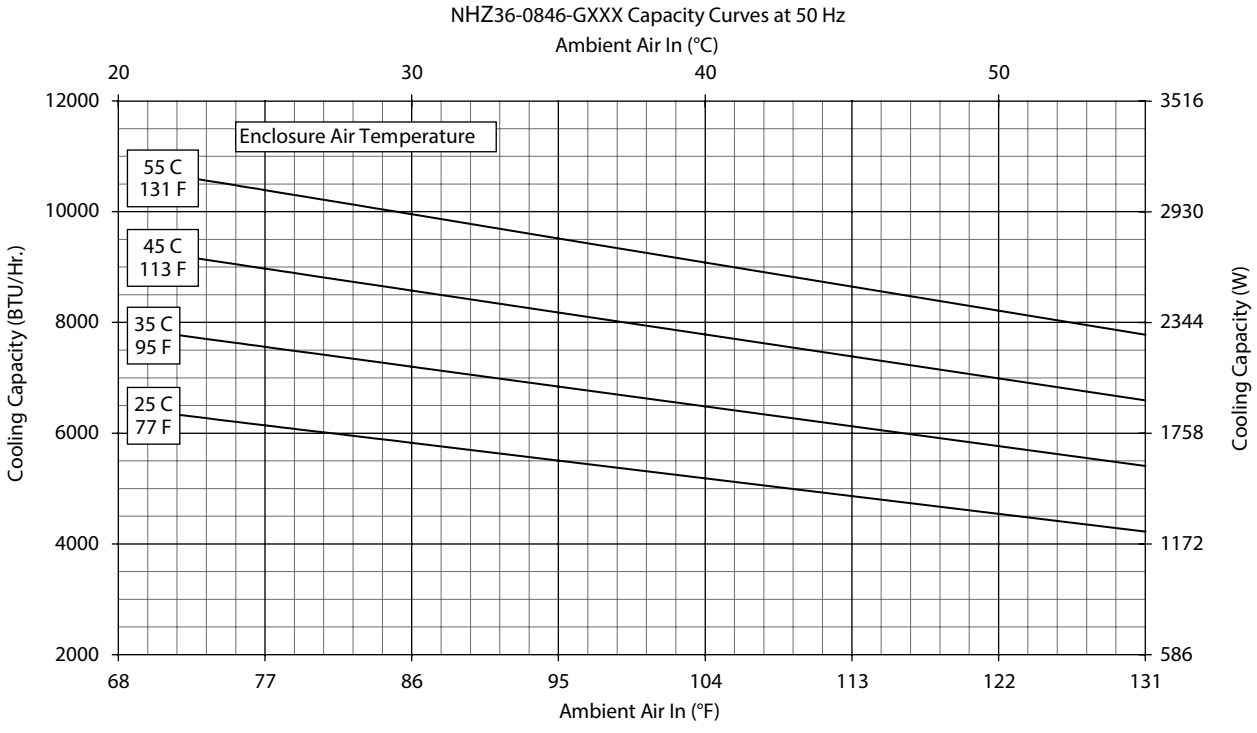


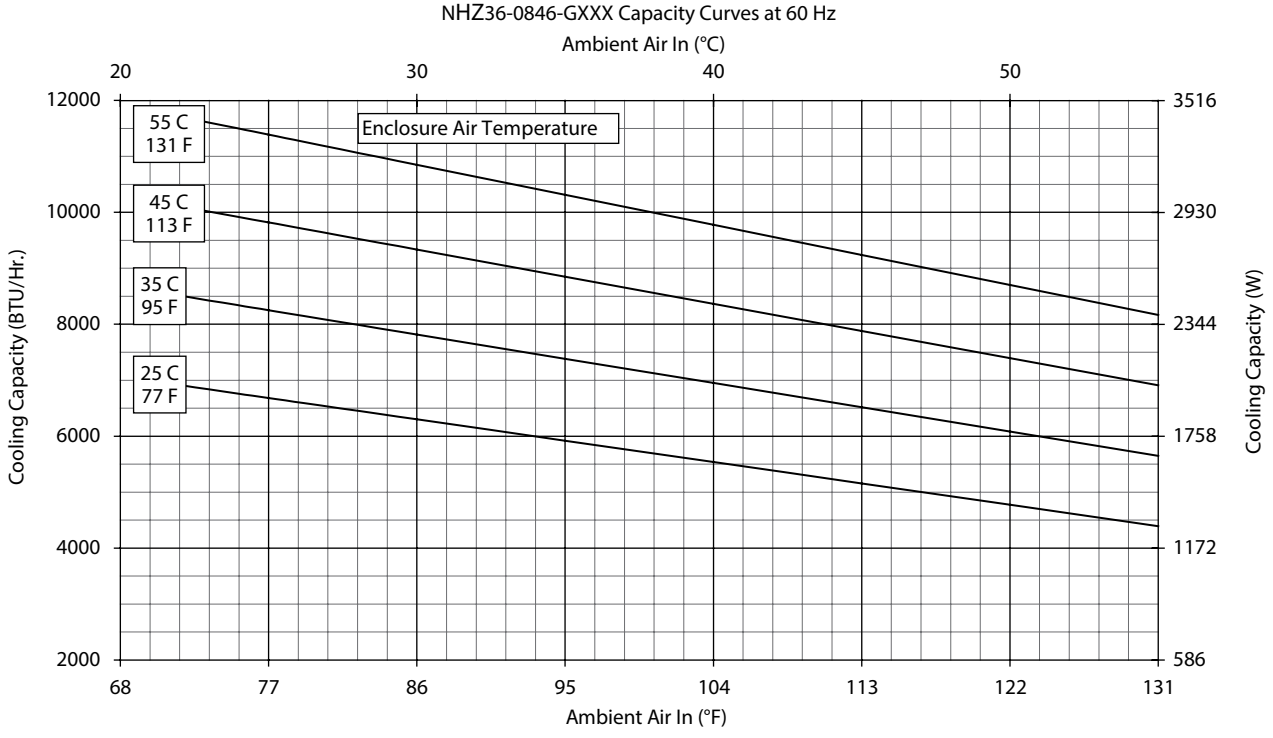
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



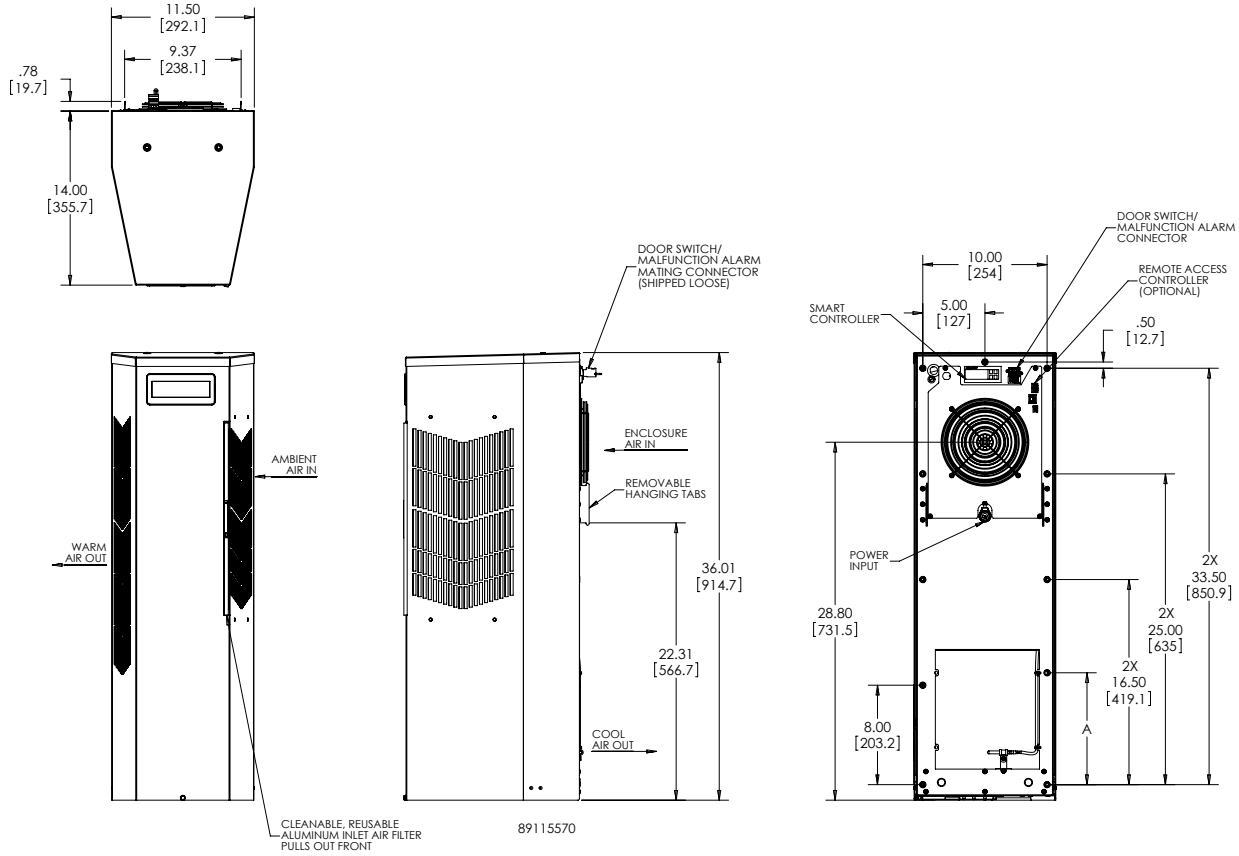


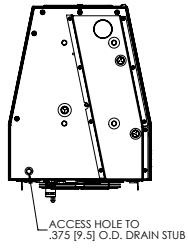
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)

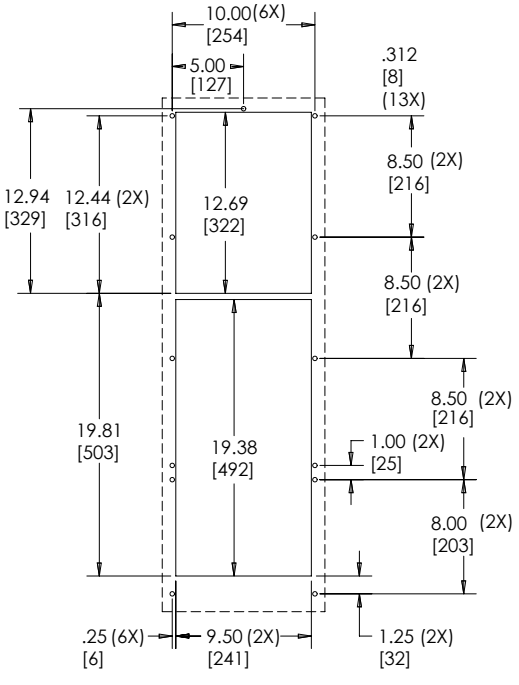




NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)







Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

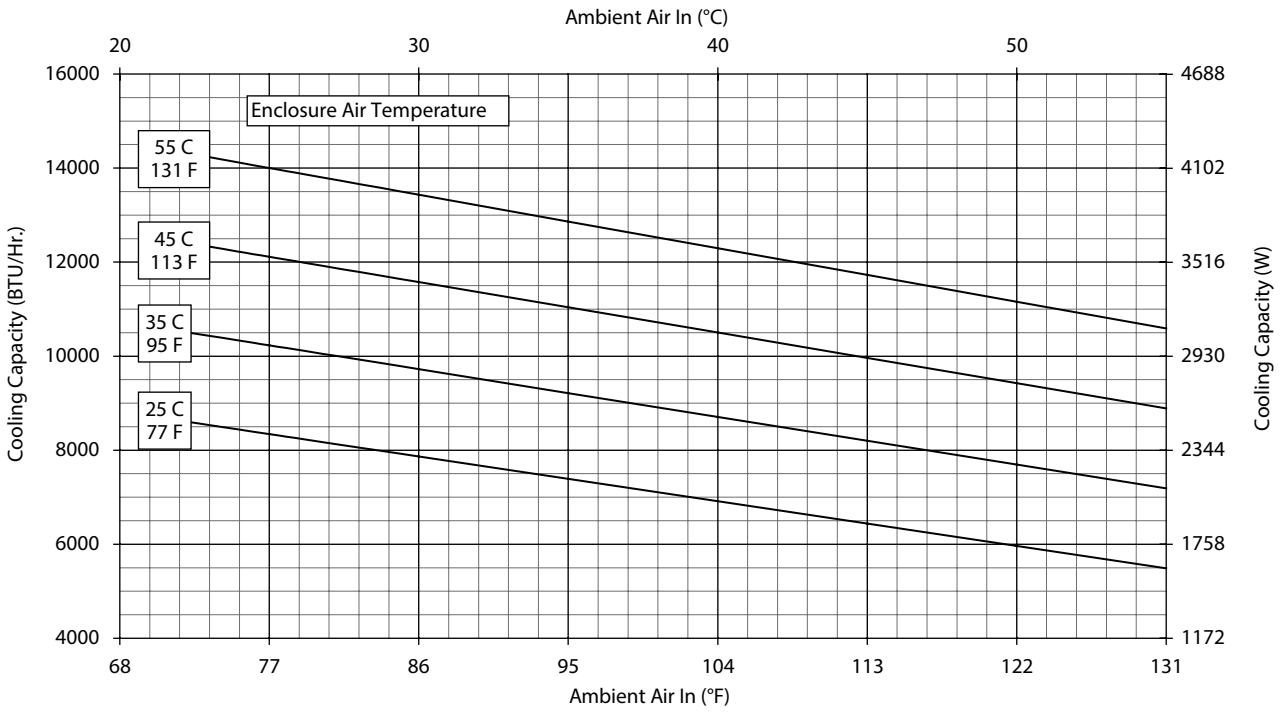
Performance Data **NHZ43 11000 BTU/Hr. (3223 Watt)**

CATALOG NUMBER			
Painted Galvanized Steel Type 4	NHZ431216G300	NHZ431226G300	NHZ431246G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ431216G360	NHZ431226G360	NHZ431246G360
Stainless Steel Type 4X	NHZ431216G400	NHZ431226G400	NHZ431246G400
Stainless Steel Type 4X with Remote Access Control*	NHZ431216G460	NHZ431226G460	NHZ431246G460
Stainless Steel Type 4X Offshore	NHZ431216G500	NHZ431226G500	NHZ431246G500
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	**10400 / 11000**	**10400 / 11000**	**10400 / 11000**
Watts	**3047 / 3223**	**2900 / 3223**	**2900 / 3223**
At 131 F / 131 F (55 C / 55 C):			
BTU/Hr. (50 / 60 Hz)	10588 / 11180	9946 / 11052	10048 / 10797
Watts (50 / 60 Hz)	3103 / 3277	2915 / 3239	2945 / 3164
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	9475 / 10023	8967 / 9644	8587 / 9559
Watts (50 / 60 Hz)	2777 / 2937	2628 / 2826	2517 / 2801
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	36 / 1021	38 / 1077	41 / 1162
Operating Temperature Range:			
Maximum (°F / °C)	125 / 52	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	239 / 406	259 / 440	254 / 432
External loop 50 Hz (CFM / M^3/Hr)	494 / 839	489 / 831	341 / 579
Internal loop 60 Hz (CFM / M^3/Hr)	250 / 425	267 / 454	260 / 442
External loop 60 Hz (CFM / M^3/Hr)	528 / 897	525 / 892	564 / 958
ELECTRICAL DATA			
Rated Voltage	115	230	400 / 460 3~
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	1620 / 2061	1802 / 2446	1294 / 1421
Max. Nominal Current (Amps at 50 / 60 Hz)	15.1 / 18.2	9.0 / 9.1	3.4 / 3.5
Starting Current (Amps)	57	38	16
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 4, 4X Standard	
CONTROLLER			
Description		Digital Controller	
Controller Location		Enclosure Side	
Factory Controller Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	68.4 dBA	68.4 dBA	69.6 dBA
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
UNIT DIMENSIONS			
Height (in / mm)		43.00 / 1092.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	127/57.6	127/57.6	138/62.6

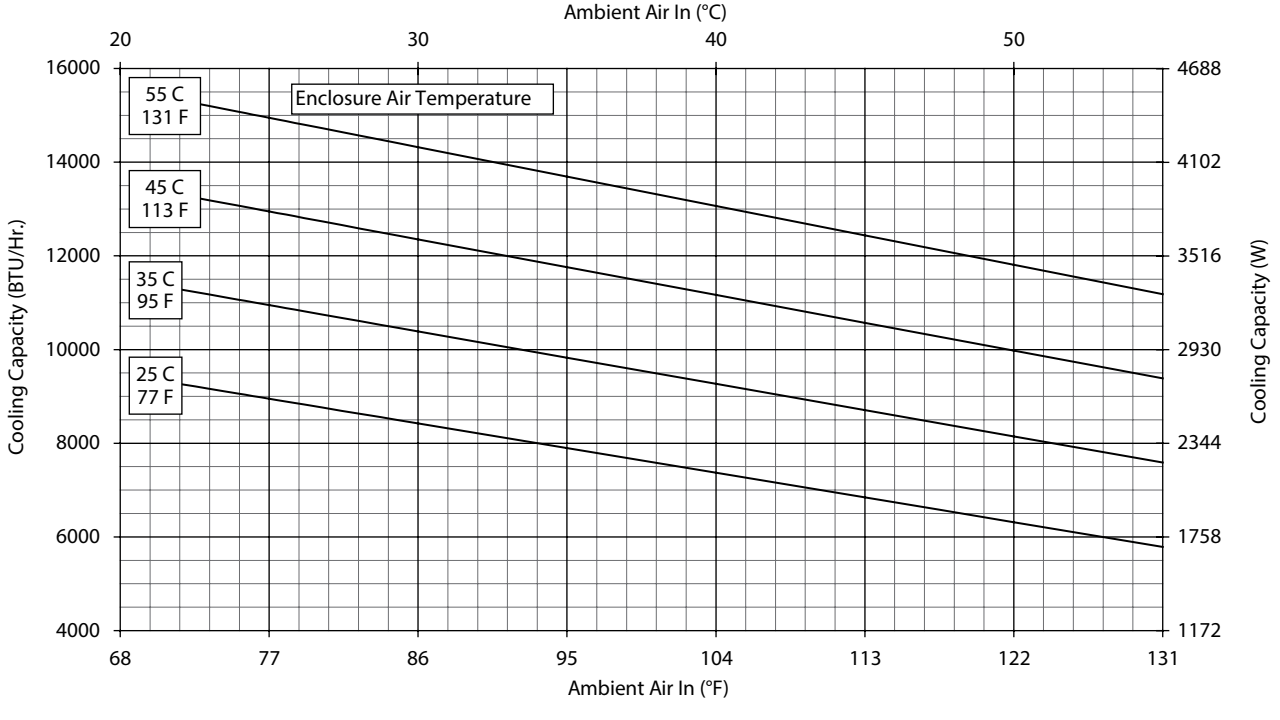
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)

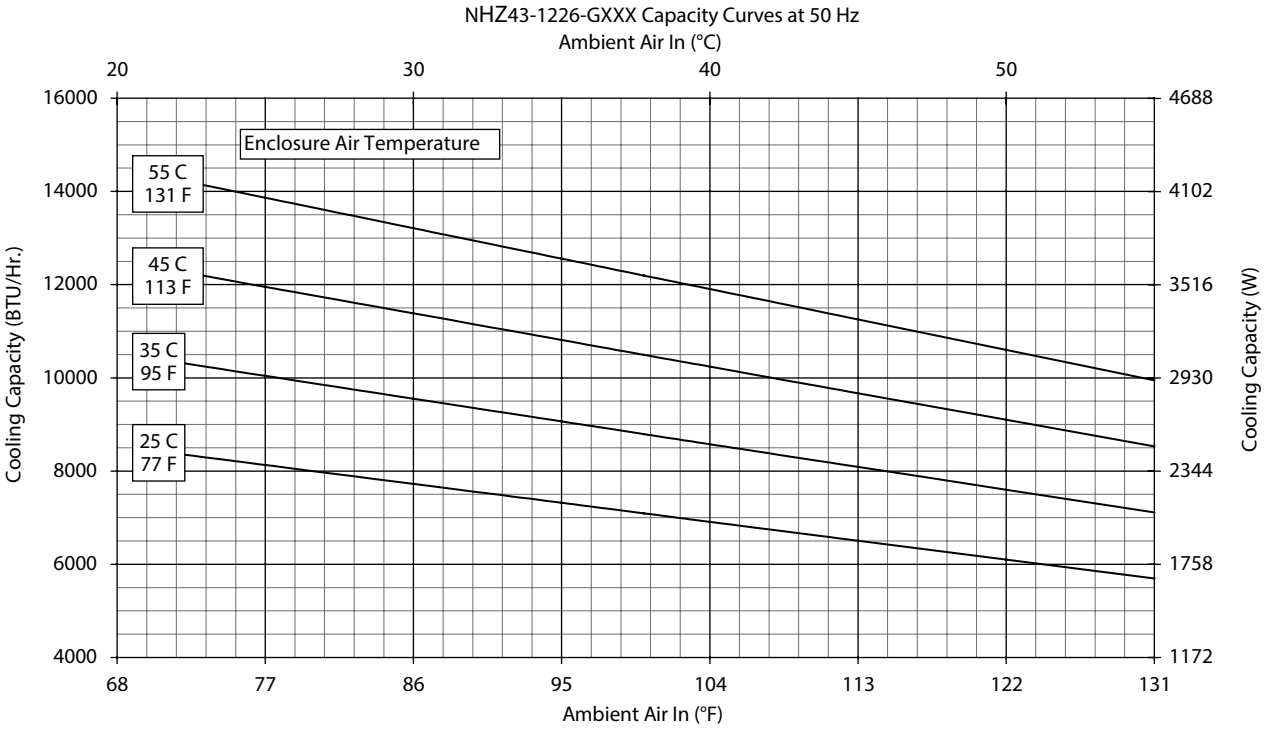
NHZ43-1216-GXXX Capacity Curves at 50 Hz

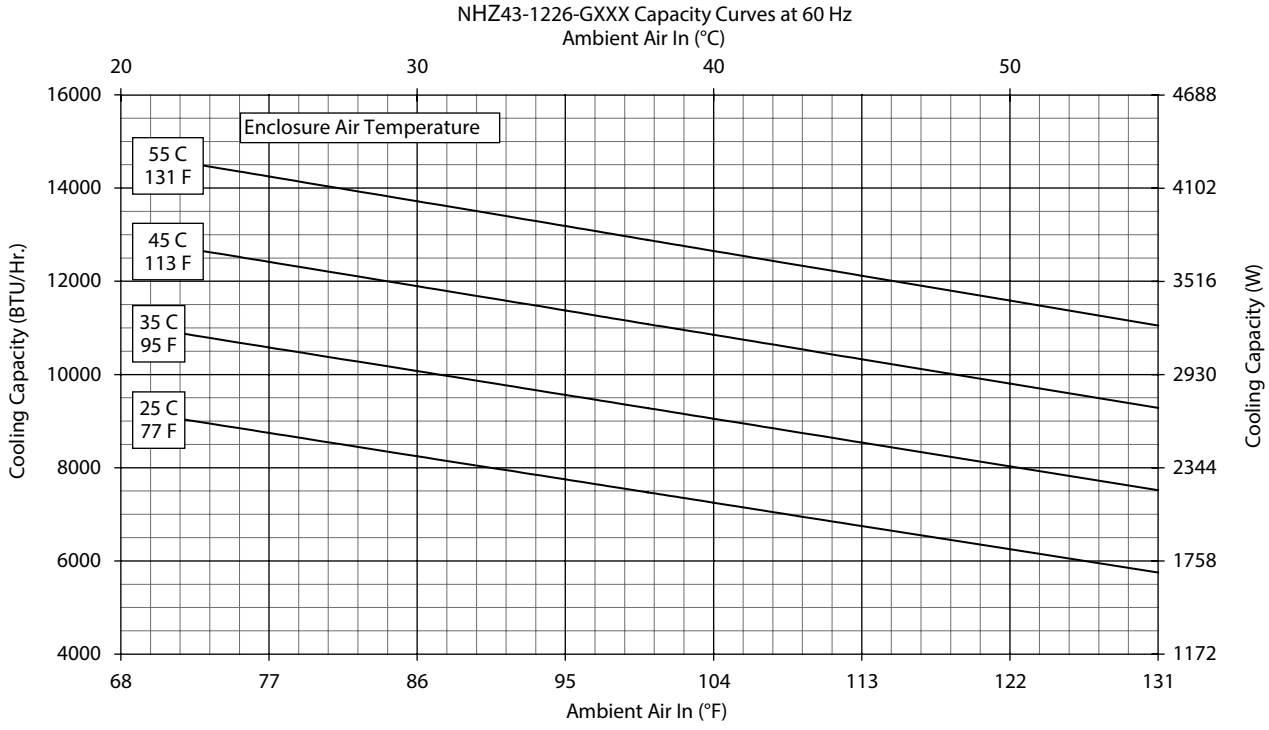


NHZ43-1216-GXXX Capacity Curves at 60 Hz

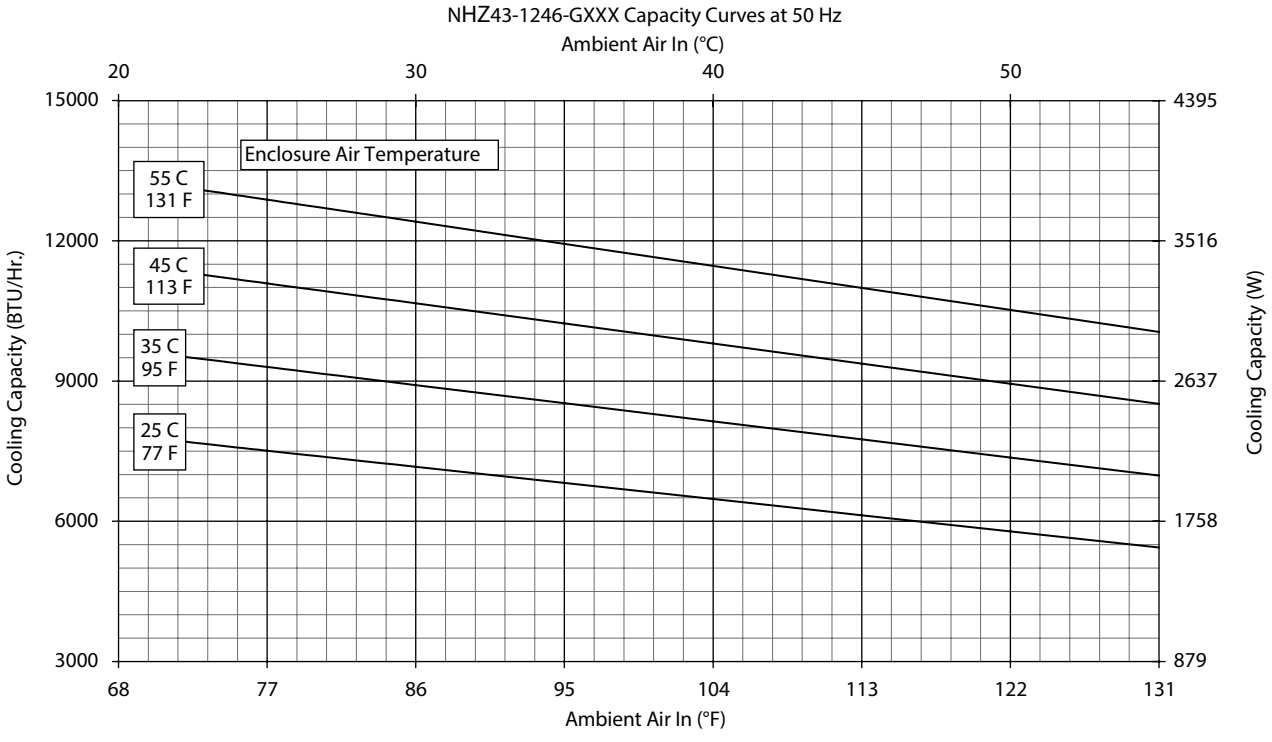


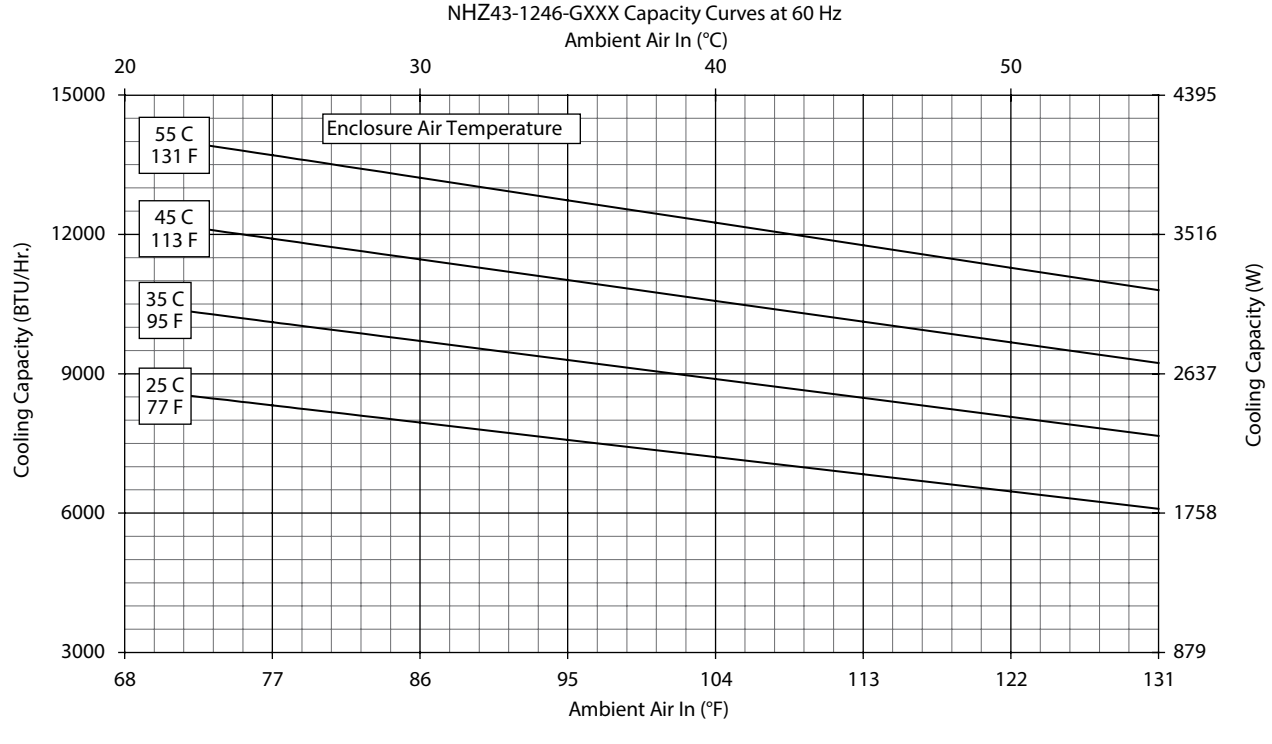
Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)



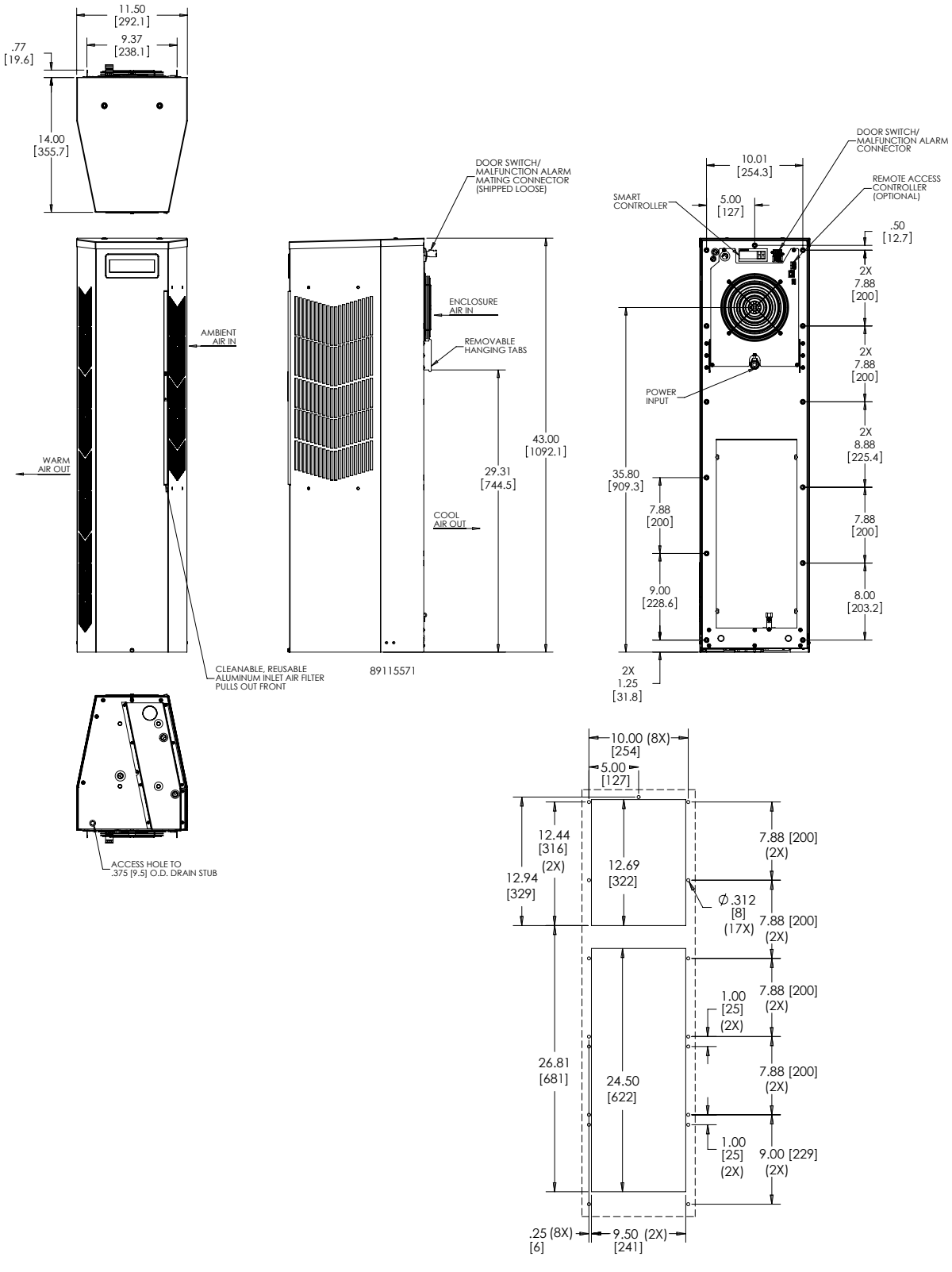


Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)





NHZ43 11000 BTU/Hr. (3223 Watt)



CUTOUT INSTRUCTIONS

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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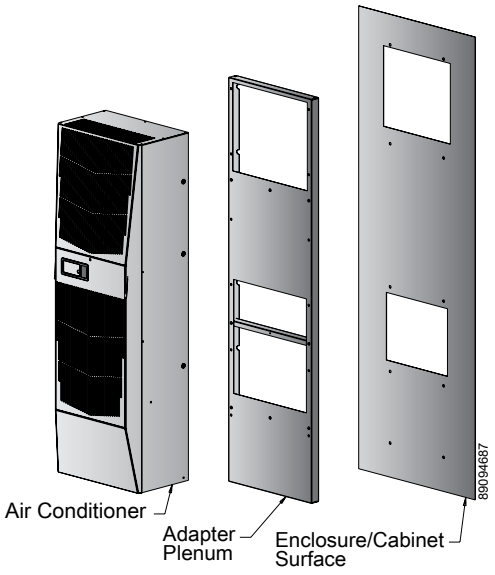
EASY SWAP ADAPTOR PLENUMS FOR AIR CONDITIONERS



INDUSTRY STANDARDS

Maintains NEMA Type 12 rating when properly installed on a Type 12 enclosure.
NEMA Type 12
IP 54

APPLICATION

When existing air conditioners are damaged or have reached end-of-life, EASY SWAP Adaptor Plenums provide a quick and easy means for attaching newer Hoffman air conditioners to the cutout left on the enclosure.

FEATURES

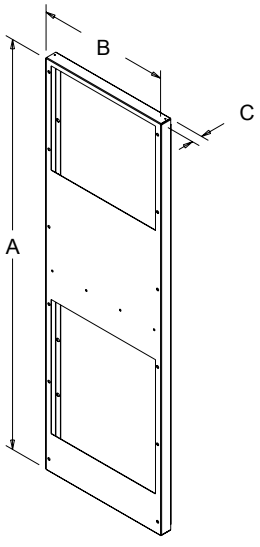
- No modification of the enclosure required - designed to match the enclosure cutout and mounting holes of the air conditioner being replaced
- Plenum design allows for optimum air flow (vs. a flat plate that can block the air intake and air outtake left by the older air conditioner)
- Gasket included

SPECIFICATIONS

- 18 gauge steel

FINISH

- Painted to match the standard Hoffman air conditioner color (light gray)
- Other colors available upon request



EASY SWAP Adaptor Plenum Cross Reference

Air Conditioner Manufacturer To Replace	Air Conditioner Series To Replace	Air Conditioner Part Number To Replace	Use This Hoffman Air Conditioner Catalog Number	With This Adaptor Plenum Catalog Number	Adaptor Plenum Dimensions AxBxC* (in./mm)
Hoffman/McLean	Genesis	M130116G1014	**N160116G050**	PLM13N16	17.65x14.25x2.62 448x362x67
Hoffman/McLean	Genesis	M130126G1008	**N160126G050**	PLM13N16	17.65x14.25x2.62 448x362x67
Hoffman/McLean	Genesis	M130146G1400	**N170146G010**	PLM13N17	17.65x14.25x1.50 448x362x38
Hoffman/McLean	Genesis	M170216G009	**N210216G050**	PL17N21	20.87x12.00x1.50 530x305x38
Hoffman/McLean	Genesis	M170226G004	**N210226G050**	PL17N21	20.87x12.00x1.50 530x305x38

Air Conditioner Manufacturer To Replace	Air Conditioner Series To Replace	Air Conditioner Part Number To Replace	Use This Hoffman Air Conditioner Catalog Number	With This Adaptor Plenum Catalog Number	Adaptor Plenum Dimensions AxBxC* (in./mm)
Hoffman/McLean	Genesis	M170246G400	**N170246G010**	Not Required	---
Hoffman/McLean	Genesis	M280216G013	**N170216G010**	PLM28N17	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280226G004	**N170226G010**	PLM28N17	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280246G400	**N170246G010**	PLM28N17	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280416G007	**G280416G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280426G032	**G280426G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280446G400	**G280446G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280616G005	**G280616G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280626G005	**G280626G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M280646G400	**G280646G050**	PLM28G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	Genesis	M330416G010	**N280416G050**	PLM33N28	34.31x12.00x1.50 871x305x38
Hoffman/McLean	Genesis	M330426G009	**N280426G050**	PLM33N28	34.31x12.00x1.50 871x305x38
Hoffman/McLean	Genesis	M330446G400	**N280446G050**	PLM33N28	34.31x12.00x1.50 871x305x38
Hoffman/McLean	Genesis	M360616G307	**N360616G050**	PLM36N36	38.75x15.00x1.50 984x381x38
Hoffman/McLean	Genesis	M360626G306	**N360626G050**	PLM36N36	38.75x15.00x1.50 984x381x38
Hoffman/McLean	Genesis	M360646G400	**N360646G050**	PLM36N36	38.75x15.00x1.50 984x381x38
Hoffman/McLean	Genesis	M520816032	**G520816G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	Genesis	M520826015	**G520826G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	Genesis	M520846G002	**G520846G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	Genesis	M521046G002	**G521246G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	Genesis	M521216017	**G521216G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	Genesis	M521226034	**G521226G050**	PLM52G52	52.56x17.03x1.50 1335x433x38
Hoffman/McLean	T-Series	T290416G100	**G280416G050**	PLT29G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	T-Series	T290416G150	**G280416G150**	PLT29G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	T-Series	T290426G100	**G280426G050**	PLT29G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	T-Series	T290426G150	**G280426G150**	PLT29G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	T-Series	T290446G400	**G280446G050**	PLT29G28	28.50x17.00x1.50 724x432x38
Hoffman/McLean	HC52	HC52 SERIES	**G57XXXXXXXX**	PLHC52G57	57.60x22.97x1.50 1463x583x38
Hoffman/McLean	HC52	HC52 SERIES	**T53XXXXXXXX**	PLHC52T53	52.85x23.00x1.50 1342x584x38
Hoffman/McLean	Proair	CR23SS	**N21SS**	PLCR23N21SS	23.00x10.00x1.50 548x254x38
Hoffman/McLean	Proair	CR23 (painted)	**N21**	PLCR23N21	23.00x10.00x1.50 548x254x38
Hoffman/McLean	SpectraCool	N17SS	**N21SS**	PL17N21SS	20.87x12.00x1.50 530x305x38
Hoffman/McLean	SpectraCool	N17 (painted)	**N21**	PL17N21	20.87x12.00x1.50 530x305x38

*Prior to ordering, ensure Adaptor Plenum dimensions do not exceed available space on the enclosure mounting surface.
Please contact Customer Service for support in finding an appropriate cross for older Hoffman/McLean models not shown above.

For a list of EASY SWAP Adaptor Plenums to fit other manufacturers' air conditioners, please visit nVent.com/HOFFMAN

nVent | HOFFMAN

T-SERIES COMPACT OUTDOOR

T15
800 BTU/Hr.
234 Watts

T20
2000 BTU/Hr.
586 Watts

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453
UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC
Telcordia GR-487 capable

APPLICATION

- Industrial automation
- Telecommunications equipment
- Package handling equipment
- Security and defense systems
- And more

FEATURES

- Stock models equipped with head pressure control for low-ambient operation, compressor heater, coated condenser coil, malfunction switch, thermostat and heater package
- R134A earth-friendly refrigerant
- Models for 115, 230 and 460 VAC power input
- UL Listed to save customers time and money with agency approvals (some models UL recognized)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
- Exterior and fully recessed mounting options on many models
- Compact footprint to minimize real estate and maximize capacity
- Reliable mechanical thermostat on enclosure side of the unit
- Dual condenser-side air movers for performance redundancy
- Painted galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Outdoor Air Conditioner models also include:
  - Telcordia GR-487 capable
  - Thermostat
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control
  - Enclosure heater

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
- Outdoor Package
- Harsh Environment Package*
- Stainless Steel Package*
- Heater Package

* PROAIR A/C may be more appropriate. Refer to PROAIR A/C Chapter. Consult the Factory for availability and catalog number.

NOTES

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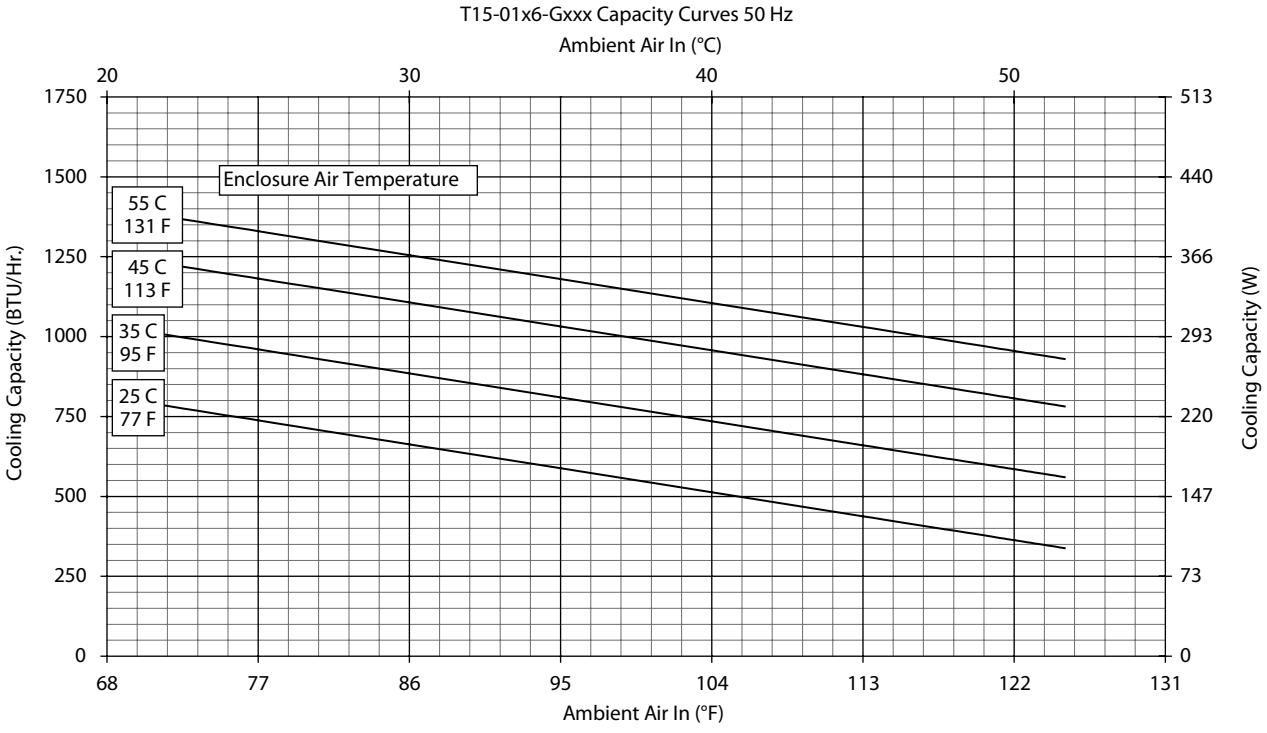
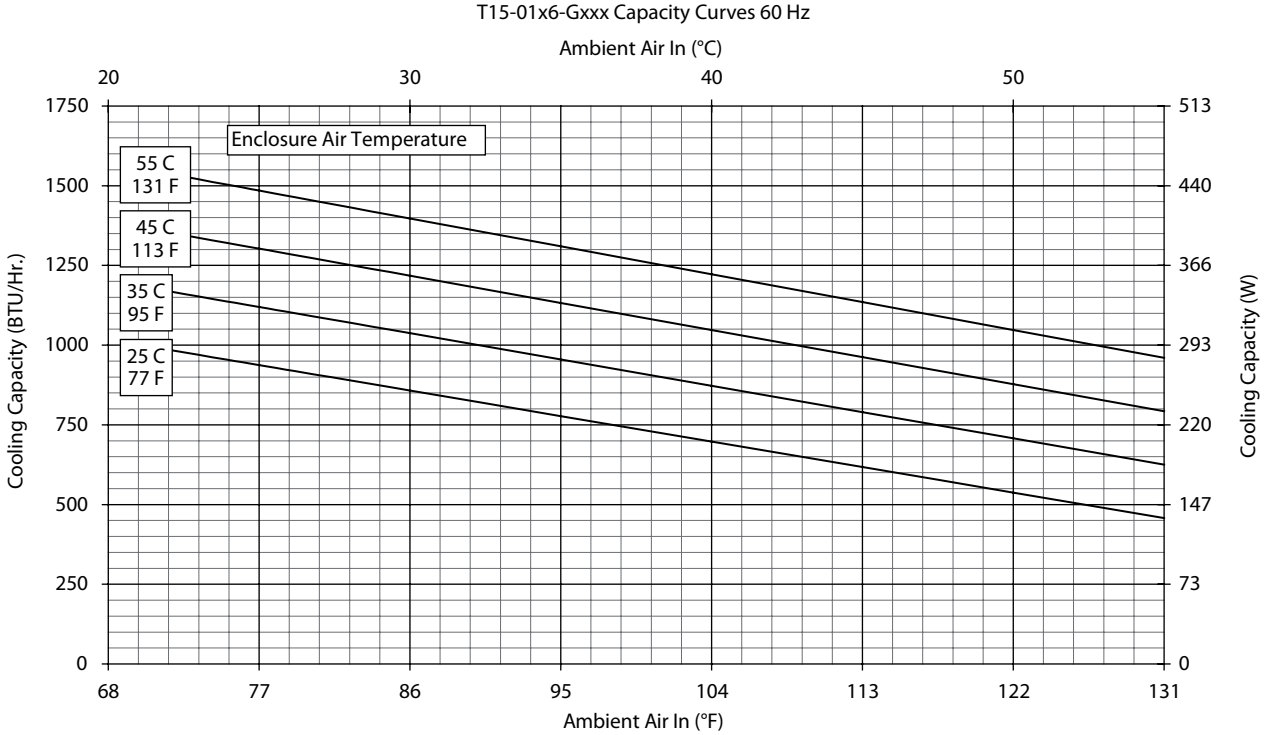
Performance Data **T15 800 BTU/Hr. (234 Watt) Models**

CATALOG NUMBER		
Indoor Model	T150116G120	T150126G120
Outdoor Model without Heat Pkg.	T150116G100	T150126G100
Outdoor Model with Heat Pkg.	T150116G150	T150126G150
Outdoor Model/SST/Corrosion/4X	T150116G152	T150126G104
Outdoor Model/SST/Corrosion/4X/Heater	T150116G151	—
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**800/800**	**800/900**
Watts	**235/235**	**235/264**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	819	920/960
W (50/60 Hz)	240	270/281
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	948	810/955
W (50/60 Hz)	278	237/280
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	4/113	3.8/107
Operating Temperature Range:		
Maximum (°F/°C)	131/55	125/131/52/55
Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	25/42	25/42
External loop 50 Hz (CFM / m^3/hr.)	48/82	48/82
Internal loop 60 Hz (CFM / m^3/hr.)	30/51	30/51
External loop 60 Hz (CFM / m^3/hr.)	53/90	53/90
Max. Heater W (Outdoor Models)	150	150
ELECTRICAL DATA		
Rated Voltage	**100/115**	**220/230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	360/403	330/345
Max. Nominal Current (A at 50/60 Hz)	3.6/3.5	1.5/1.5
Starting Current (A)	8.0/9.2	3.3/3.1
Agency Approvals	UL/cUL Listed CE EAC Others available upon request	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure behind front panel	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	63 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	15.75/400	
Width (in./mm)	7.5/191	
Depth (in./mm)	6.3/160	
Weight (lb./kg)	27/12	

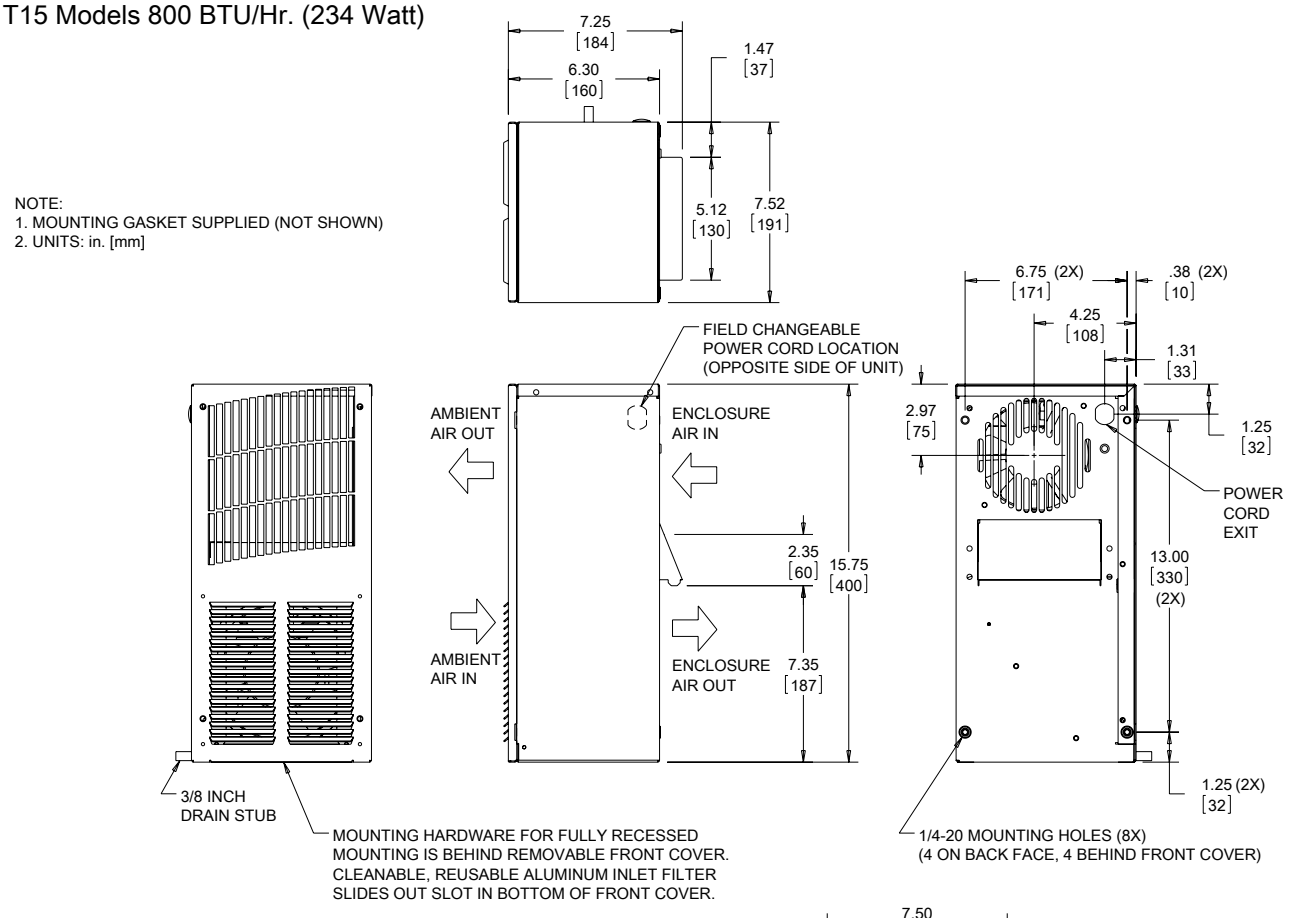
Performance Curves for T15 Models 800 BTU/Hr. (234 Watt)

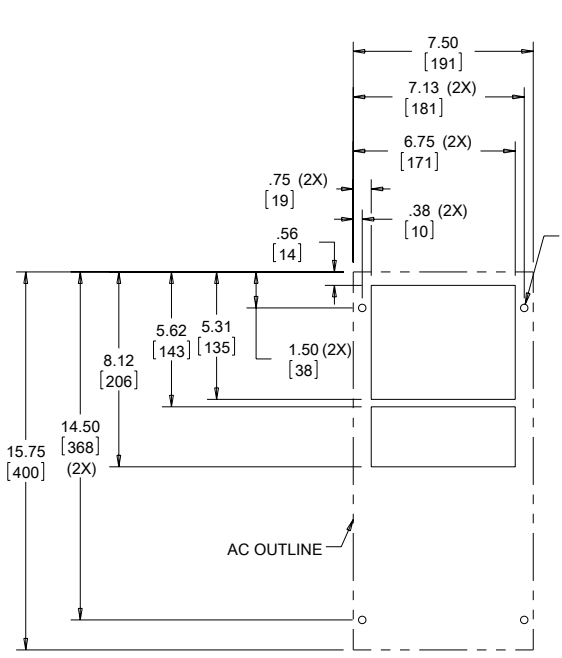




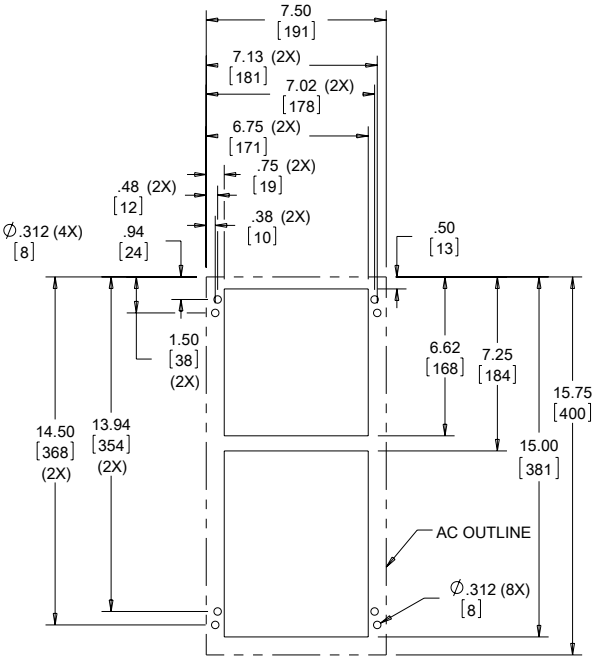
T15 Models 800 BTU/Hr. (234 Watt)

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]





Cutout Dimensions (Externally Mounted)



Cutout Dimensions (Internally Mounted)

89043915

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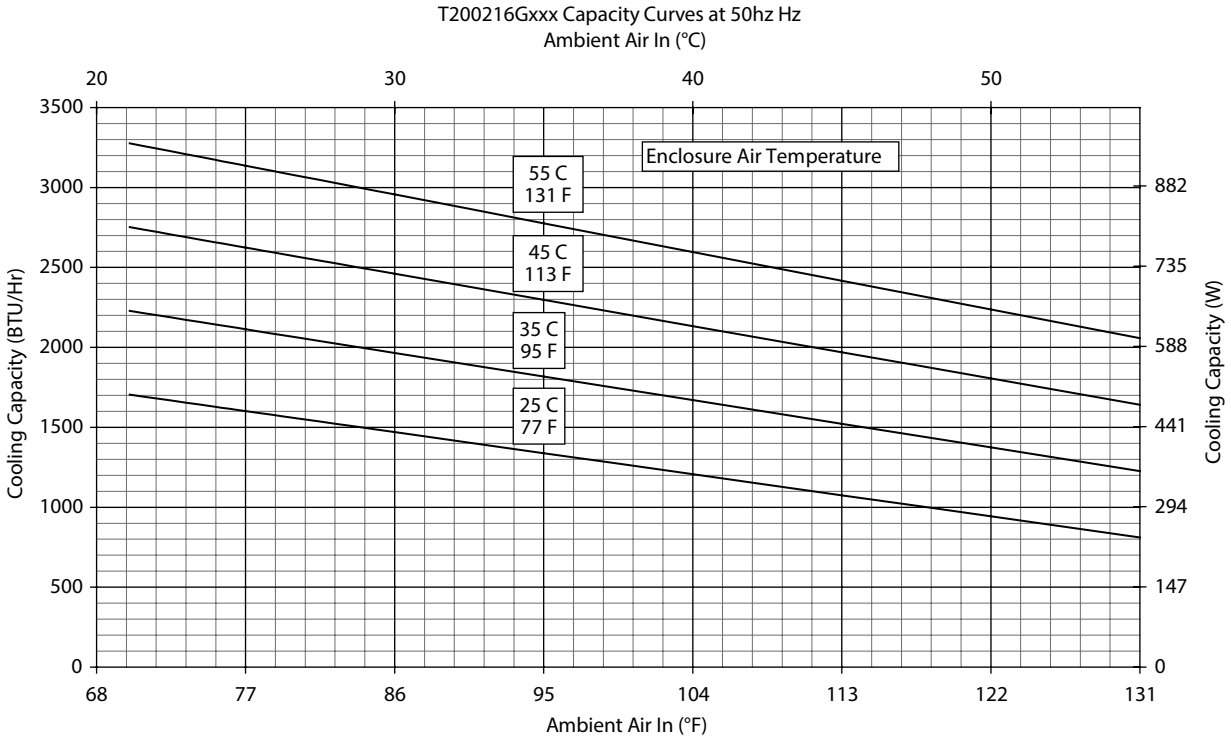
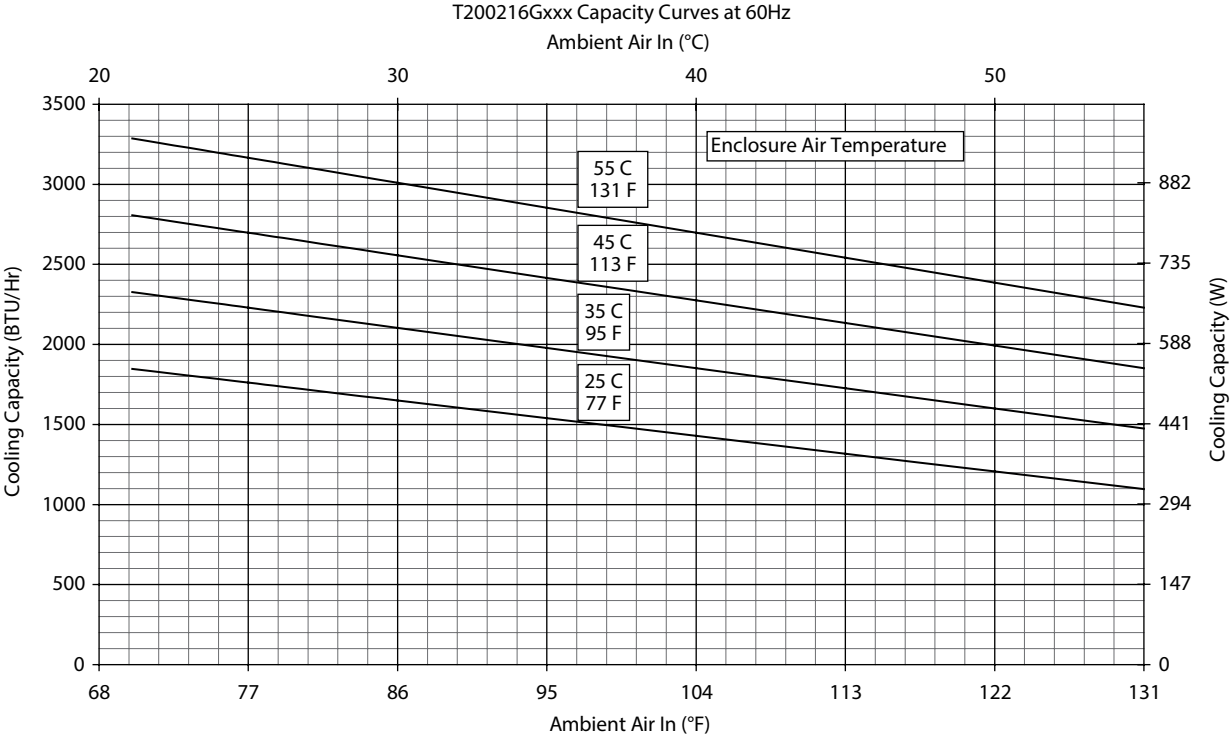
Performance Data **T20 2000 BTU/Hr. (586 Watt) Models**

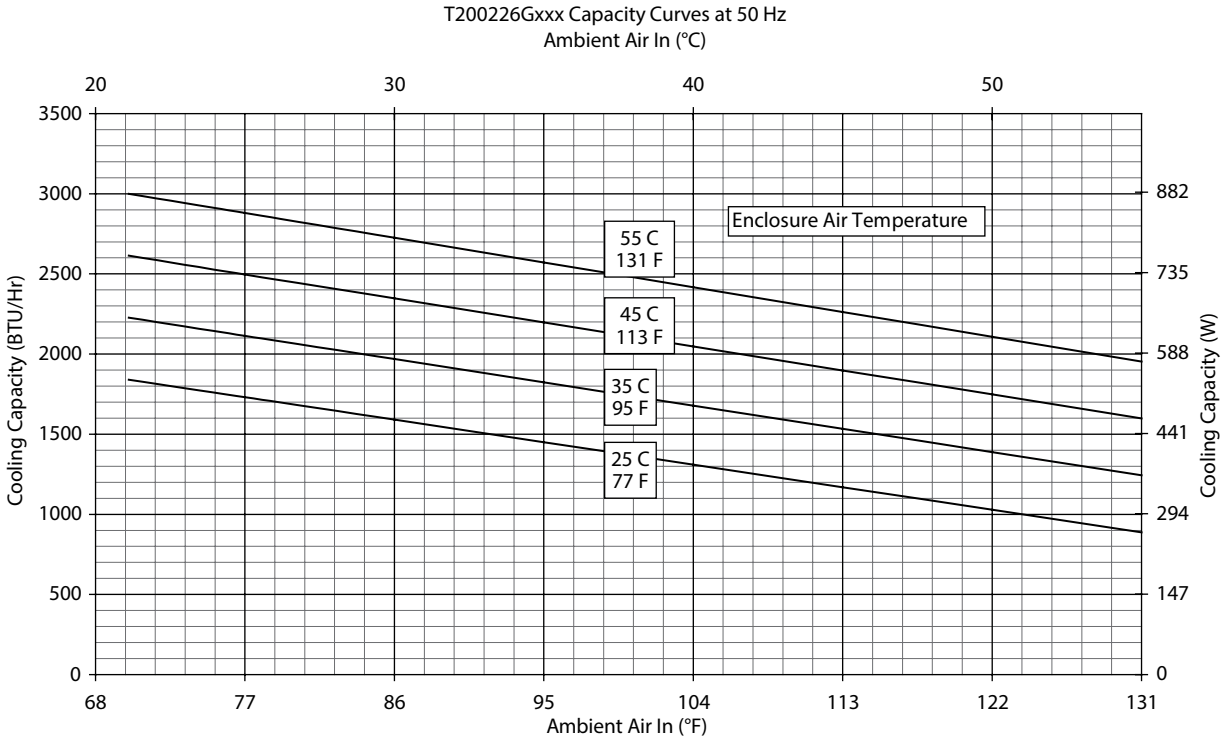
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T200216G100	T200226G100	T200246G400
Outdoor Model with Heat Pkg.	T200216G150	T200226G150	—
Outdoor Model/SST/Corrosion/4X	T200216G155	T200226G103	T200246G401
Outdoor Model/SST/Corrosion/4X/Heater	T200216G157	T200226G158	—
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**1800/2000**	**1800/2000**	**1800/2000**
Watts	**528/586**	**528/586**	**528/586**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	2000/2175	2000/2175	2000/2175
W (50/60 Hz)	586/637	586/637	586/637
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50/60 Hz)	1950/2200	1950/2200	1950/2200
W (50/60 Hz)	571/645	571/645	571/645
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	6.5/184	6.5/184	6.5/184
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	77/131	77/131	77/131
External loop 50 Hz (CFM / m^3/hr.)	150/255	150/255	150/255
Internal loop 60 Hz (CFM / m^3/hr.)	91/155	91/155	91/155
External loop 60 Hz (CFM / m^3/hr.)	165/280	165/280	165/280
Max. Heater W (Outdoor Models)	500	500	500
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	700/805	805	874
Max. Nominal Current (A at 50/60 Hz)	7.0/7.0	3.5/3.5	1.9
Starting Current (A)	19	7.6	7.2
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	66 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	20/508	20/508	24.25/615.95
Width (in./mm)	10/254	10/254	10/254
Depth (in./mm)	9.9/251	9.9/251	9.9/251
Weight (lb./kg)	56/25	56/25	66/30

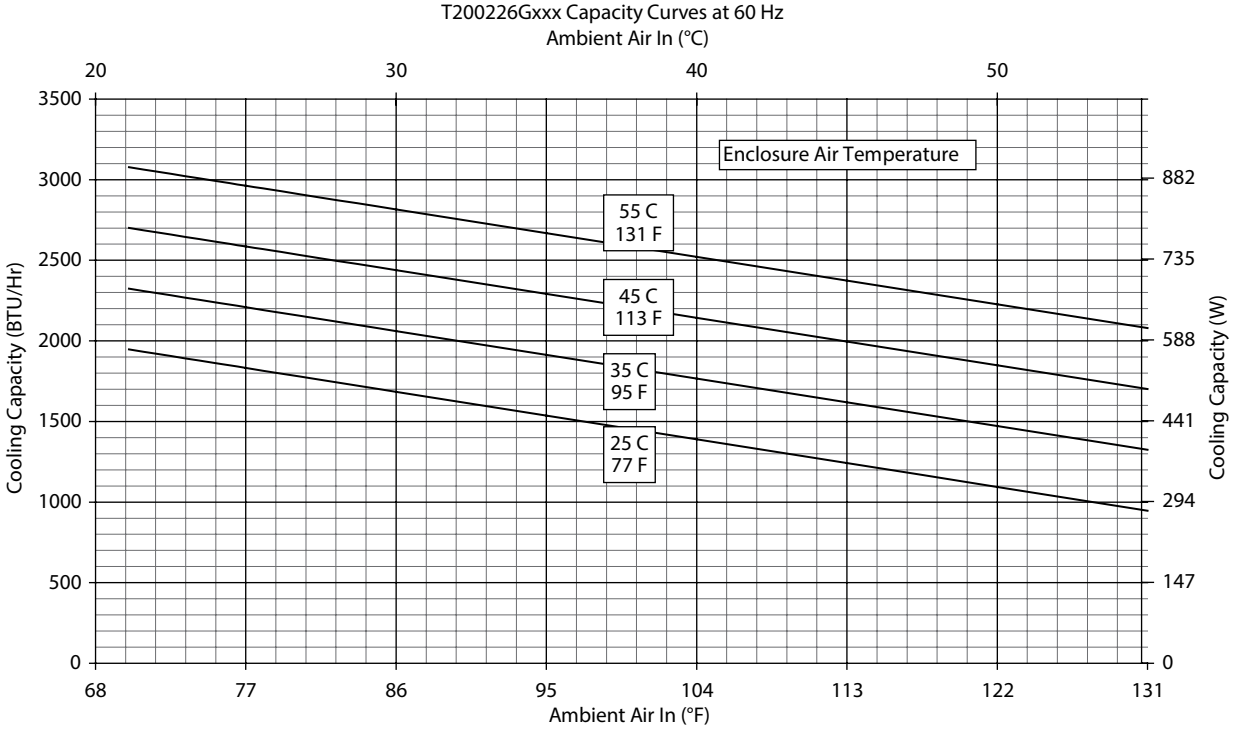
Performance Curves for T20 Models 2000 BTU/Hr. (586 Watt)



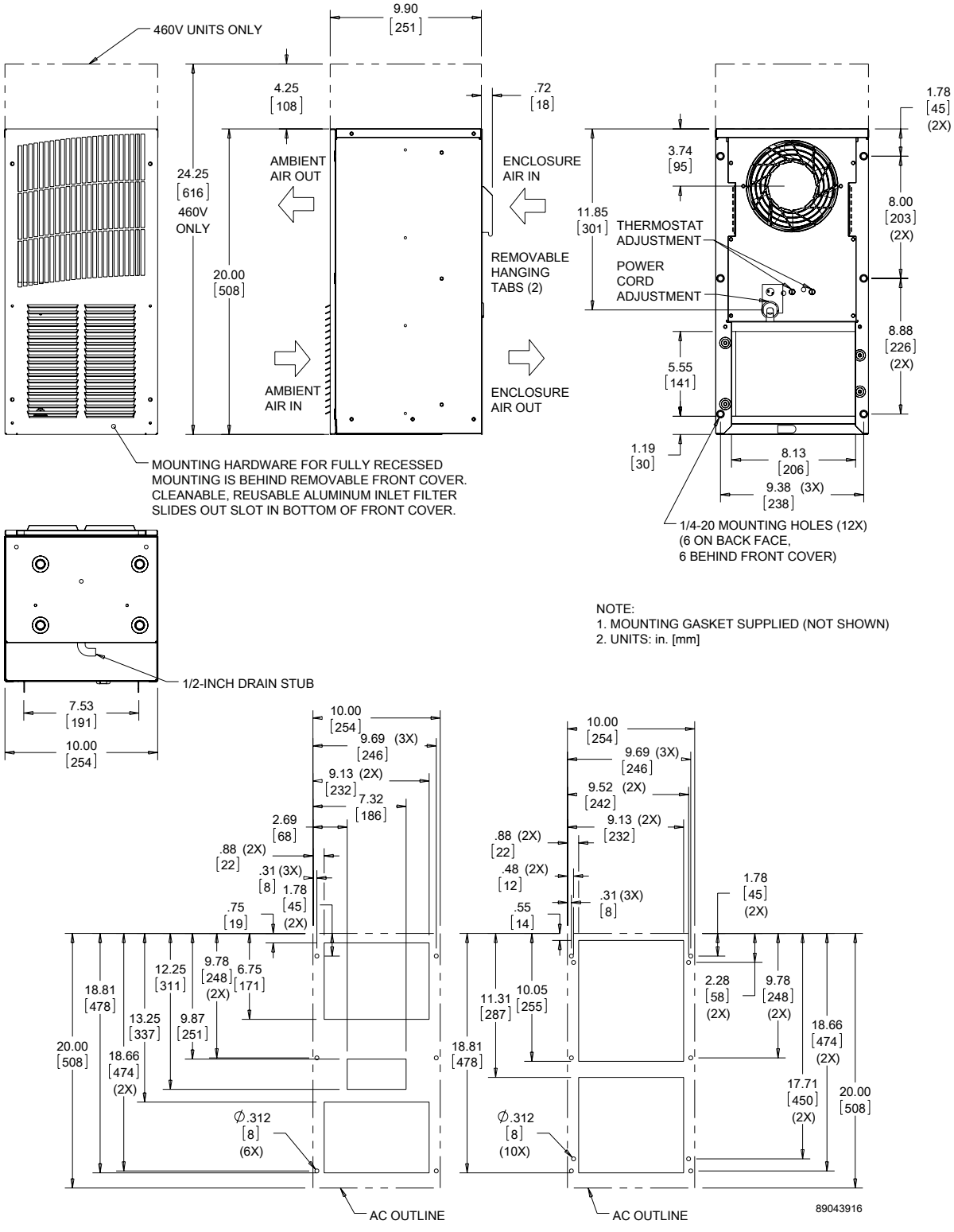


Performance Curves for T20 Models 2000 BTU/Hr. (586 Watt)





T20 Models 2000 BTU/Hr. (586 Watt)



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T-SERIES MID-SIZE OUTDOOR

T29
4000 BTU/Hr.
1173 Watts

T43
6000, 8000, 10000 BTU/Hr.
1758, 2344, 2930 Watts

T50
12000 BTU/Hr.
3516 Watts

T53
19000 BTU/Hr.
5567 Watts

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453
UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC
Telcordia GR-487 capable

APPLICATION

- Industrial automation
- Telecommunications equipment
- Package handling equipment
- Security and defense systems
- And more

FEATURES

- Stock models equipped with head pressure control for low-ambient operation, compressor heater, coated condenser coil, malfunction switch, thermostat and heater package
- R134A or R-407C earth-friendly refrigerant
- Models for 115, 230 and 460 VAC power input
- UL Listed to save customers time and money with agency approvals (some models UL recognized)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
- Exterior and fully recessed mounting options on many models
- Compact footprint to minimize real estate and maximize capacity
- Reliable mechanical thermostat on enclosure side of the unit
- Dual condenser-side air movers for performance redundancy
- Painted galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Outdoor Air Conditioner models also include:
  - Telcordia GR-487 capable
  - Thermostat
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control
  - Enclosure heater

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
- Outdoor Package
- Harsh Environment Package*
- Stainless Steel Package*
- Heater Package

* PROAIR Harsh Environment air conditioner may be more appropriate. Refer to PROAIR Harsh Environment air conditioner catalog section. Consult the Factory for availability and catalog number.

NOTES

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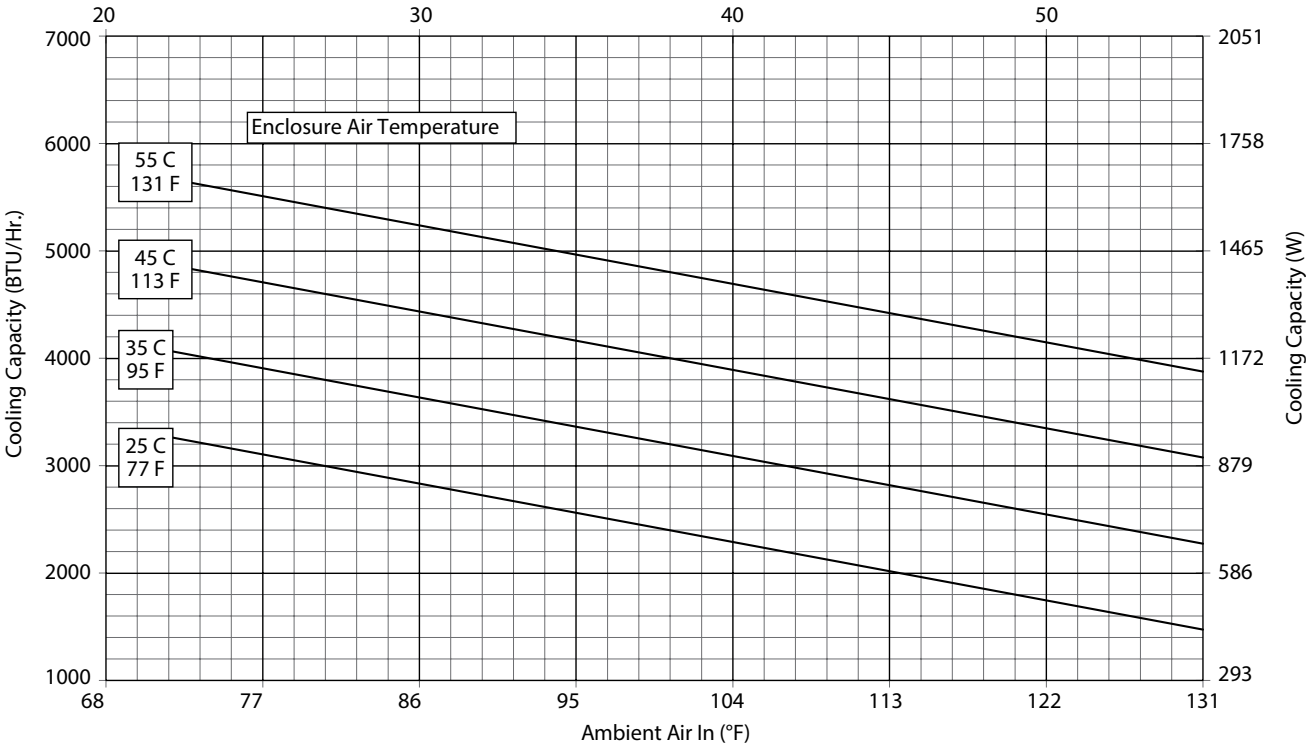
Performance Data **T29 4000 BTU/Hr. (1173 Watt) Models**

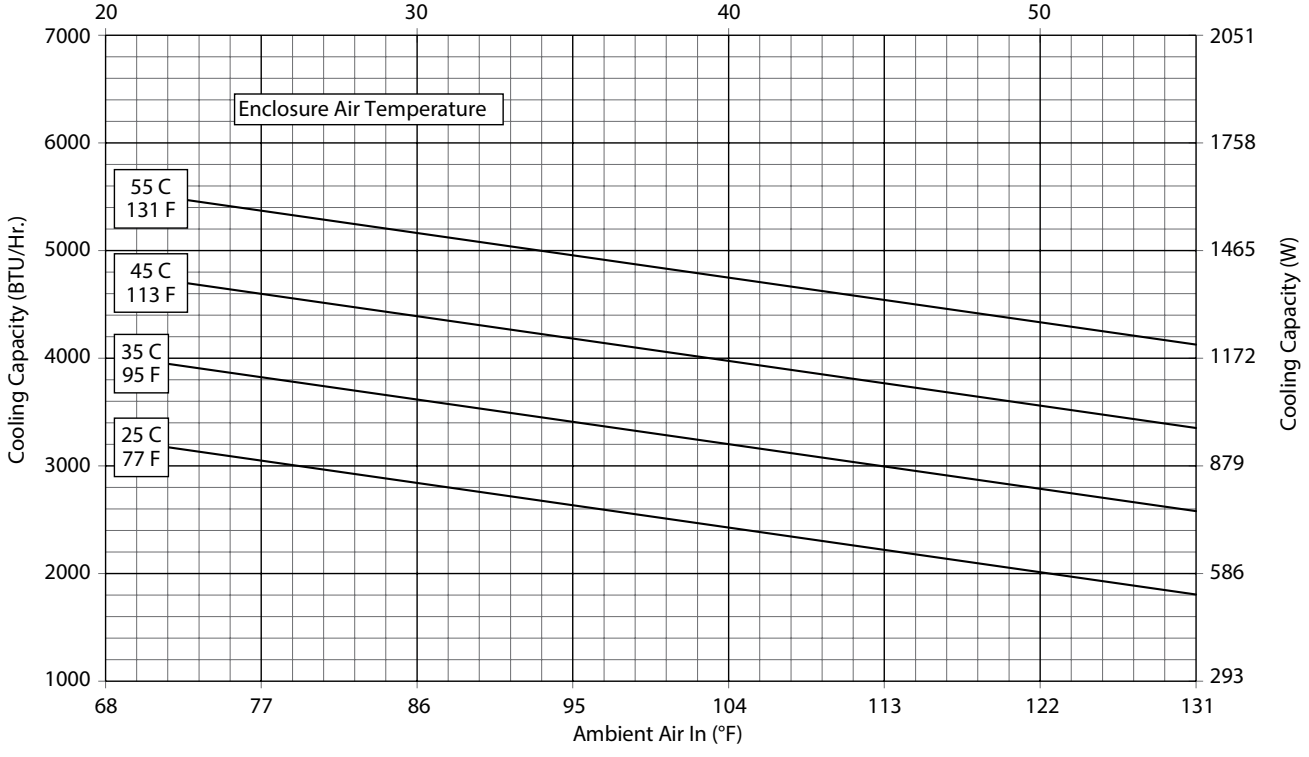
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T290416G100	T290426G100	T290446G400
Outdoor Model with Heat Pkg.	T290416G150	T290426G150	—
Outdoor Model/SST/Corrosion/4X	T290416G159	T290426G161	—
Outdoor Model/SST/Corrosion/4X/Heater	T290416G156	T290426G160	T290446G403
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**3600/4000**	**3600/4000**	**3600/4000**
Watts	**1055/1172**	**1055/1172**	**1055/1172**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	3950/4250	3950/4250	3950/4250
W (50/60 Hz)	1157/1245	1157/1245	1157/1245
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50 /60 Hz)	3500/3900	3500/3900	3500/3900
W (50/60 Hz)	1025/1143	1025/1143	1025/1143
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	12.5/354	14.3/404	14.3/404
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	172/292	172/292	172/292
External loop 50 Hz (CFM / m^3/hr.)	195/331	195/331	195/331
Internal loop 60 Hz (CFM / m^3/hr.)	205/348	205/348	205/348
External loop 60 Hz (CFM / m^3/hr.)	235/399	235/399	235/399
Max. Heater W (Outdoor Models)	1000	1000	
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1163/1222	1587/1564	1748
Max. Nominal Current (A at 50/60 Hz)	13.8/12.8	6.9/6.8	3.8
Starting Current ()	48	23	12
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	67 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	29/737		29/737
Width (in./mm)	17/432		17/432
Depth (in./mm)	11.3/287		11.3/287
Weight (lb./kg)	107/48.6		127/58

Performance Curves for T29 Models 4000 BTU/Hr. (1173 Watt)

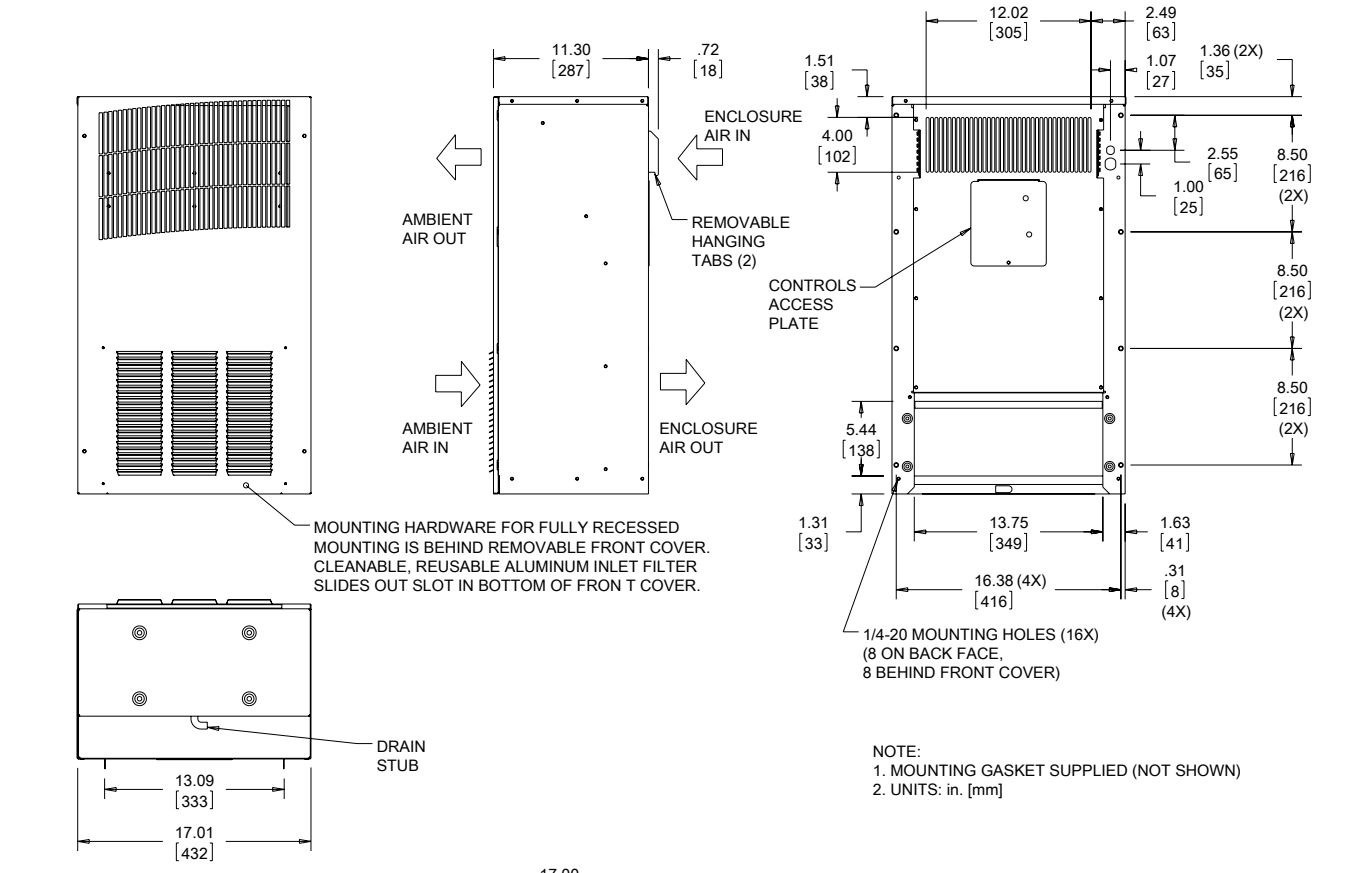
T29-04x6-Gxxx Capacity Curves 50 Hz



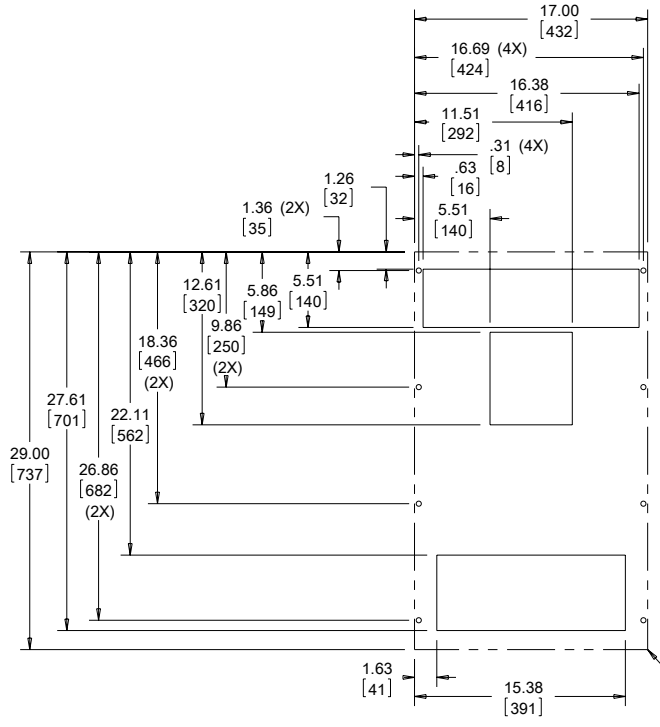
T29-04x6-Gxx Capacity Curves 60 Hz



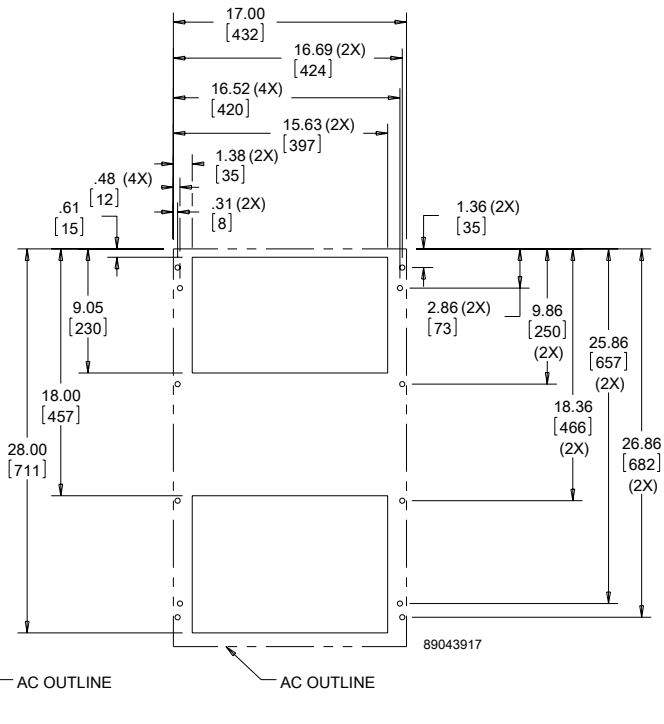
T29 Models 4000 BTU/Hr. (1173 Watt)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions (Externally Mounted)



Cutout Dimensions (Internally Mounted)

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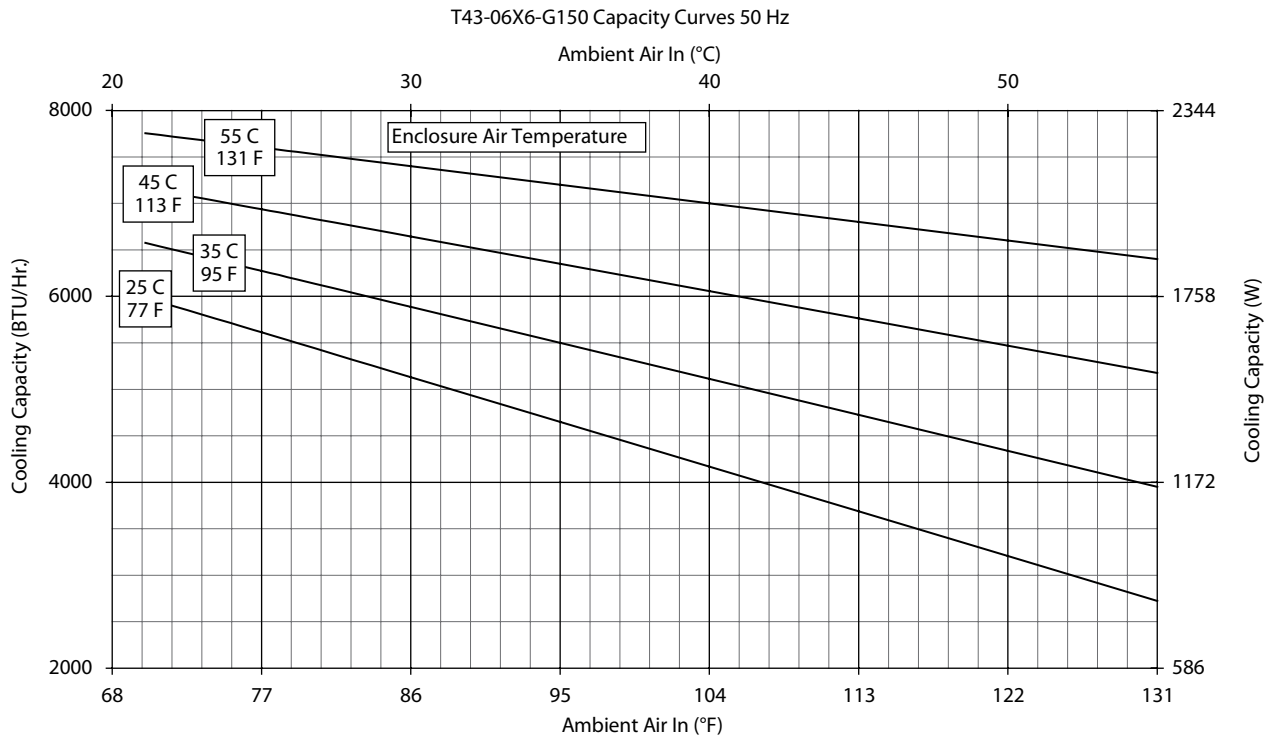
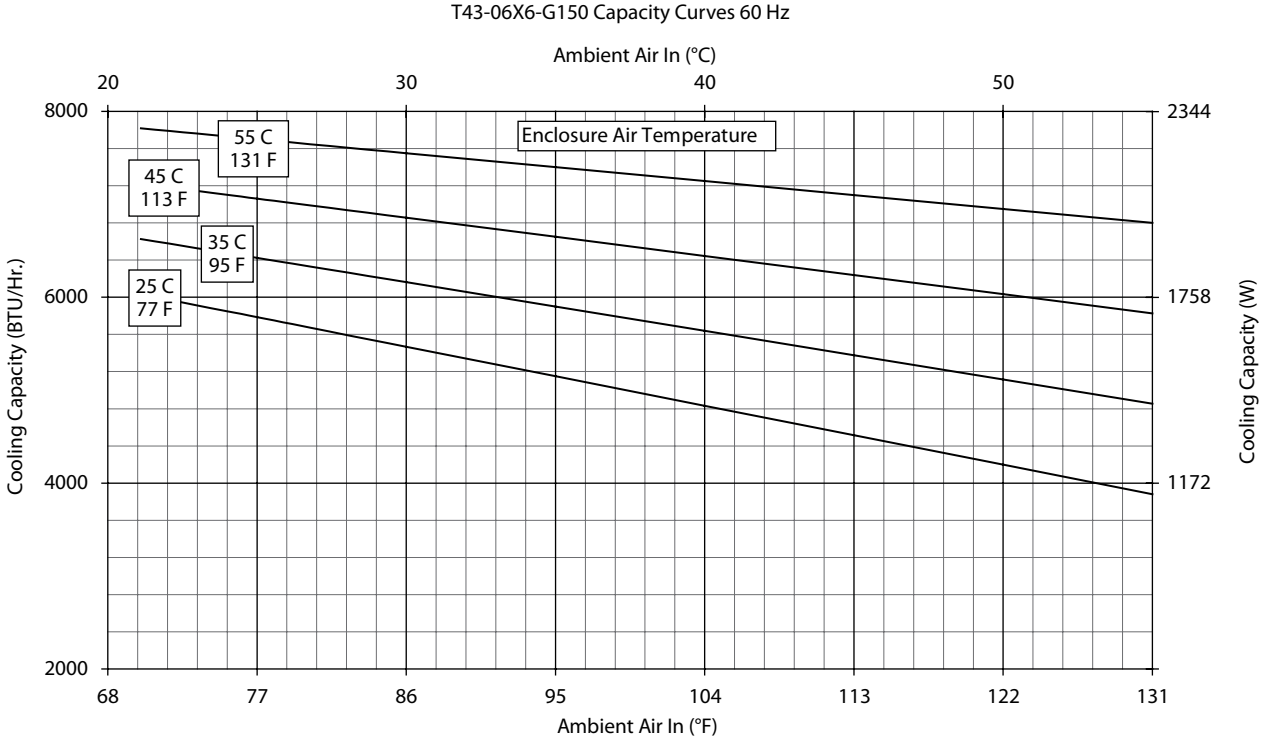
Performance Data **T43 6000 BTU/Hr. (1758 Watt) Models**

CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T430616G100	T430626G100	T430646G400
Outdoor Model with Heat Pkg.	T430616G150	T430626G150	T430626G153
Outdoor Model/SST/Corrosion/4X	T430616G102	T430626G159	—
Outdoor Model/SST/Corrosion/4X/Heater	—	—	—
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**6310/6680**	**6520/6770**	**6520/6770**
Watts	**1848/1958**	**1910/1985**	**1910/1985**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	6400/6680	6520/6774	6520/6774
W (50/60 Hz)	1875/1957	1910/1985	1910/1985
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50 /60 Hz)	5500/5900	5461/5846	5461/5846
W (50/60 Hz)	1611/1729	1600/1713	1600/1713
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	30/850	30/850	30/850
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	310/527	310/527	310/527
External loop 50 Hz (CFM / m^3/hr.)	345/586	345/586	345/586
Internal loop 60 Hz (CFM / m^3/hr.)	320/544	320/544	320/544
External loop 60 Hz (CFM / m^3/hr.)	355/603	355/603	355/603
Max. Heater W (Outdoor Models)	1000	1000	N/A
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1058/989	1012/874	1104/966
Max. Nominal Current (A at 50/60 Hz)	9.2/8.6	4.4/3.8	2.4/2.1
Starting Current (A)	57.2	27	14
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
International Rating	IP56 on the internal loop; IP34 on the external loop		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	65.7 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	43/1092		
Width (in./mm)	15.75/400		
Depth (in./mm)	10.9/279		
Weight (lb./kg)	125/57		

Performance Curves for T43 Models 6000 BTU/Hr. (1758 Watt)



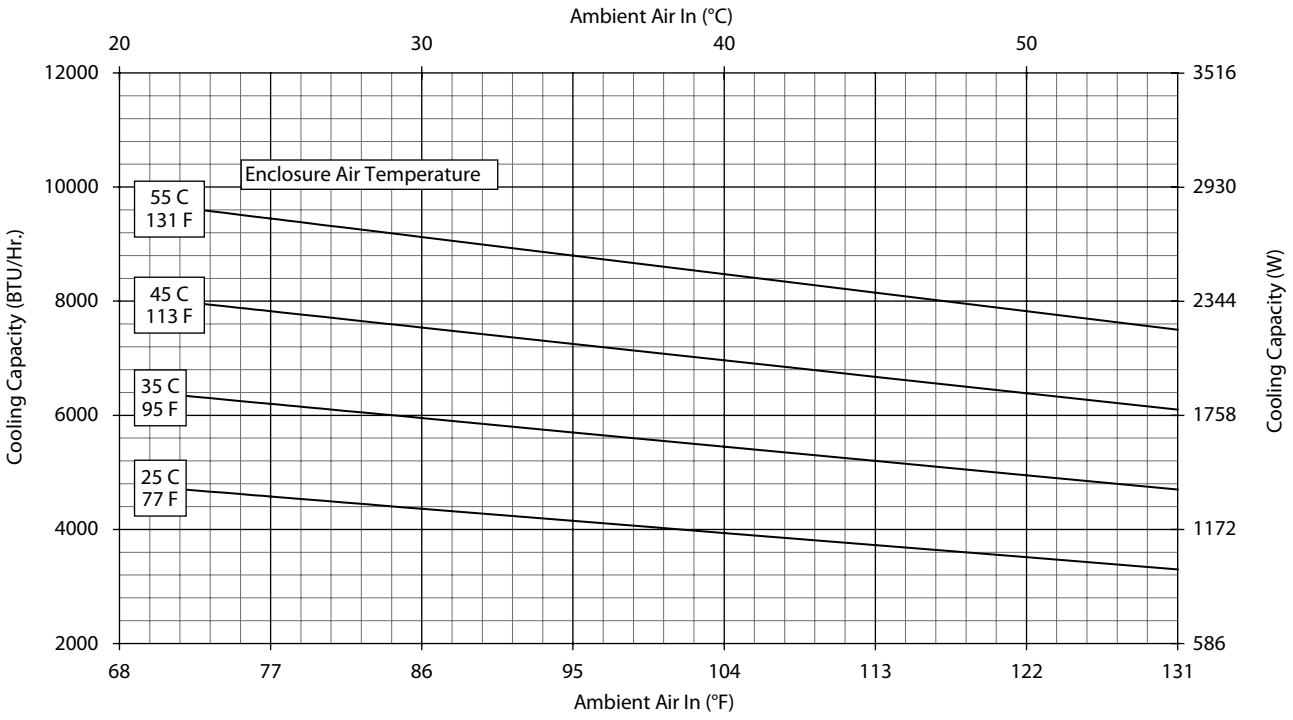


Performance Data **T43 8000 BTU/Hr. (2344 Watt) Models**

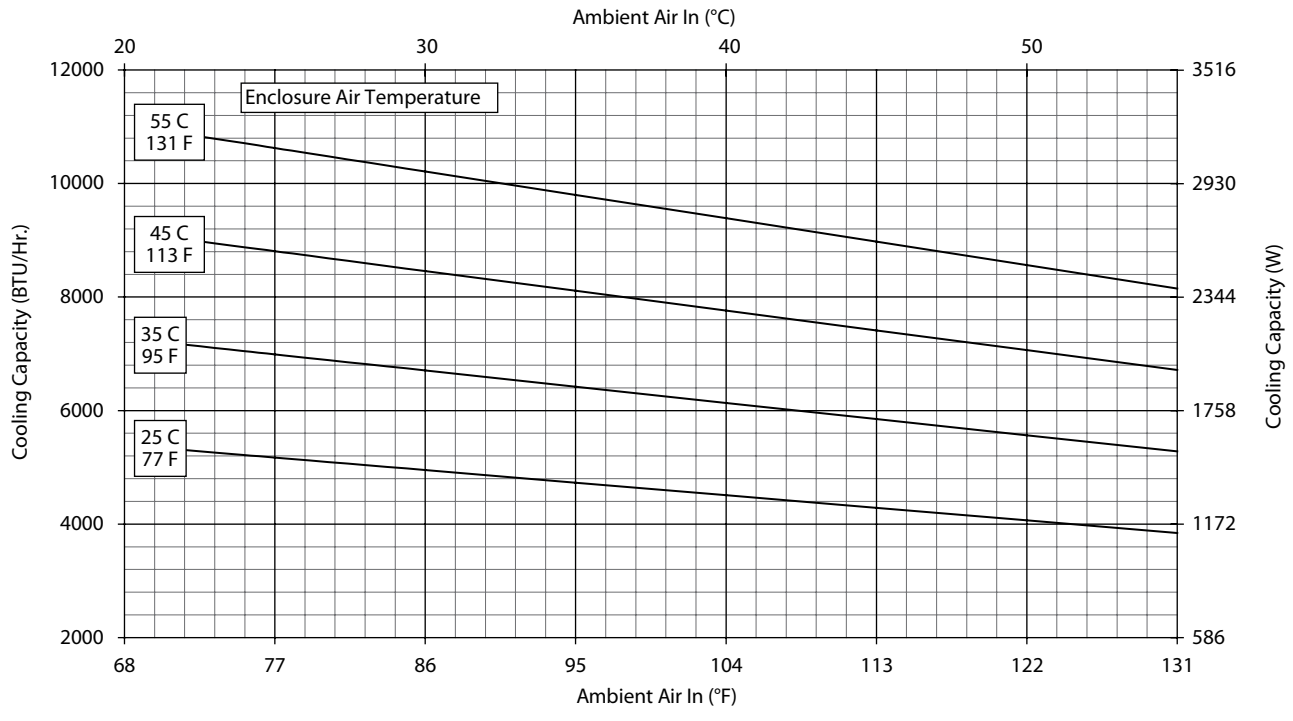
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T430816G100	T430826G100	T430846G400
Outdoor Model with Heat Pkg.	T430816G150	T430826G150	T430846G403
Outdoor Model/SST/Corrosion/4X	T430816G153	T430826G108	T430846G402
Outdoor Model/SST/Corrosion/4X/Heater	—	—	—
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**7900/8600**	**7400/8200**	**7400/8200**
Watts	**2310/2500**	**2160/2400**	**2160/2400**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	7937/8629	7484/8215	7484/8215
W (50/60 Hz)	2326/2528	2193/2407	2193/2407
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50 /60 Hz)	6401/7100	5940/6705	5940/6705
W (50/60 Hz)	1875/2080	1740/1965	1740/1965
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	36/1022	36/1022	36/1022
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	273/464	273/464	273/464
External loop 50 Hz (CFM / m^3/hr.)	310/527	310/527	310/527
Internal loop 60 Hz (CFM / m^3/hr.)	290/493	290/493	290/493
External loop 60 Hz (CFM / m^3/hr.)	315/535	315/535	315/535
Max. Heater W (Outdoor Models)	1000	1000	N/A
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1196/1288	1196/1242	1334/1380
Max. Nominal Current (A at 50/60 Hz)	10.4/11.2	5.2/5.4	2.9/3.0
Starting Current (A)	48.3	27	14
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
International Rating	IP56 on the internal loop; IP34 on the external loop		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	65.7 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	43/1092		
Width (in./mm)	15.75/400		
Depth (in./mm)	10.9/279		
Weight (lb./kg)	125/57		

Performance Curves for T43 Models 8000 BTU/Hr. (2344 Watt)

T43-08X6-G150 Capacity Curves 50 Hz



T43-08X6-G150 Capacity Curves 60 Hz

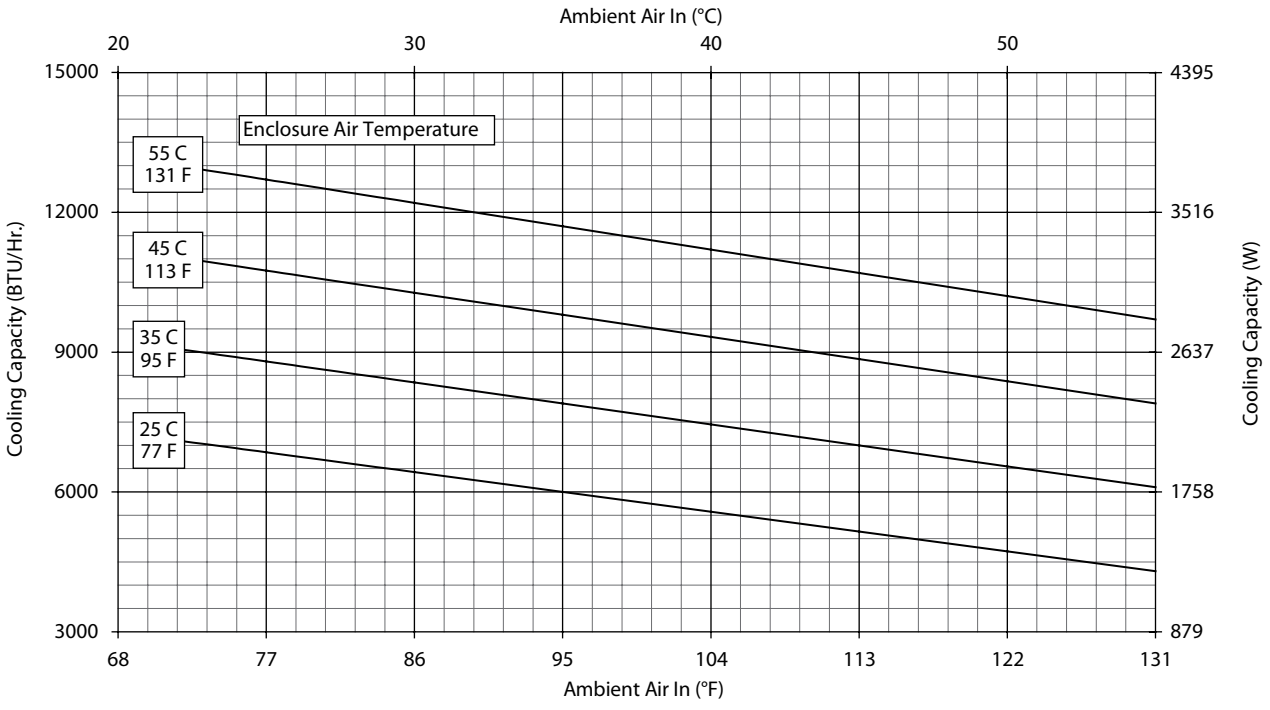


Performance Data **T43 10000 BTU/Hr. (2930 Watt) Models**

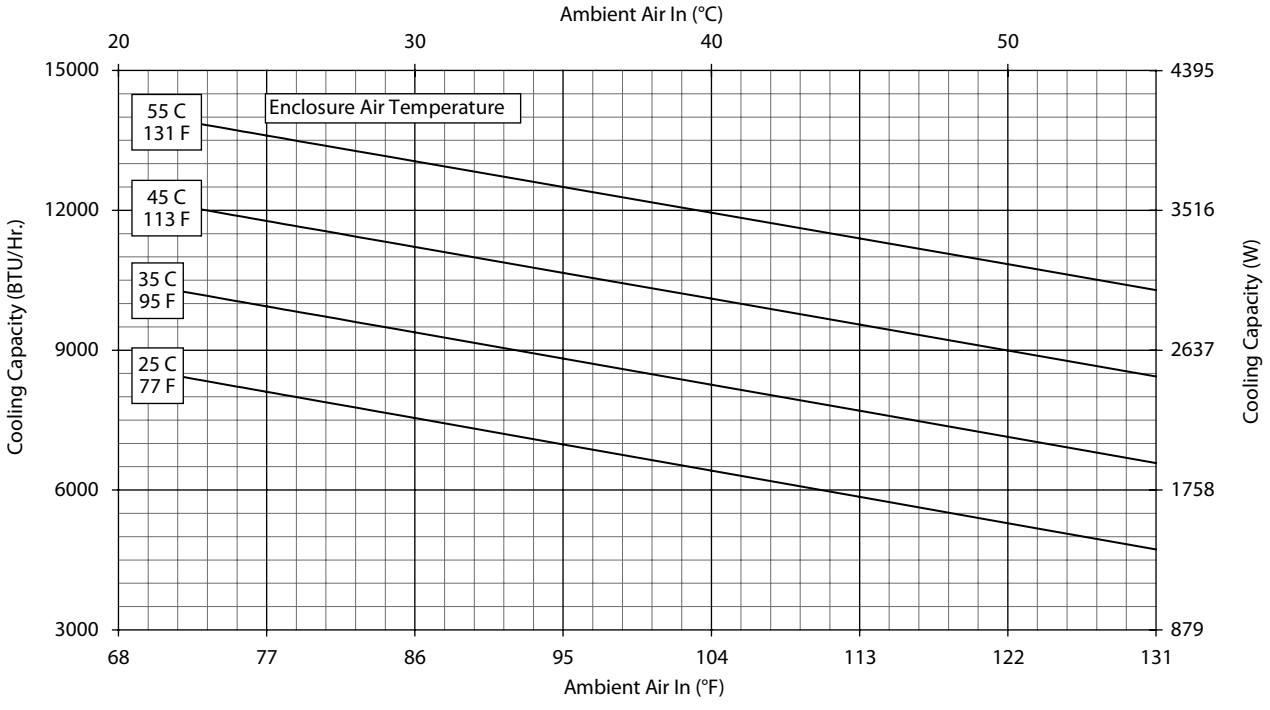
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T431016G100	T431026G100	T431046G400
Outdoor Model with Heat Pkg.	T431016G150	T431026G150	—
Outdoor Model/SST/Corrosion/4X	T431016G102	T431026G104	T431046G406
Outdoor Model/SST/Corrosion/4X/Heater	T431016G153	T431026G152	—
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**9670/10300**	**10100/10500**	**10100/10500**
Watts	**2831/3016**	**2957/3075**	**2957/3075**
At 131 F/131 F (55 C/55 C):			
BTU/Hr. (50/60 Hz)	9667/10290	10039/10669	10039/10669
W (50/60 Hz)	2832/3015	2941/3126	2941/3126
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50/60 Hz)	7663/8397	8458/8837	8458/8837
W (50/60 Hz)	2245/2460	2478/2589	2478/2589
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	32/907	32/907	32/907
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	272/462	320/544	320/544
External loop 50 Hz (CFM / m^3/hr.)	510/866	568/965	568/965
Internal loop 60 Hz (CFM / m^3/hr.)	290/493	330/561	330/561
External loop 60 Hz (CFM / m^3/hr.)	565/960	636/1081	636/1081
Max. Heater W (Outdoor Models)	1000	1000	N/A
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1828.5/2288.5	2070	1334/1380
Max. Nominal Current (A at 50/60 Hz)	15.9/19.9	9	5
Starting Current (A)	57	38	20
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-30 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional		
International Rating	IP56 on the internal loop; IP34 on the external loop		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	73.3 dB(A)		
UNIT CONSTRUCTION			
Material	Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	43/1092		
Width (in./mm)	15.75/400		
Depth (in./mm)	10.9/279		
Weight (lb./kg)	125/57		

Performance Curves for T43 Models 10000 BTU/Hr. (2930 Watt)

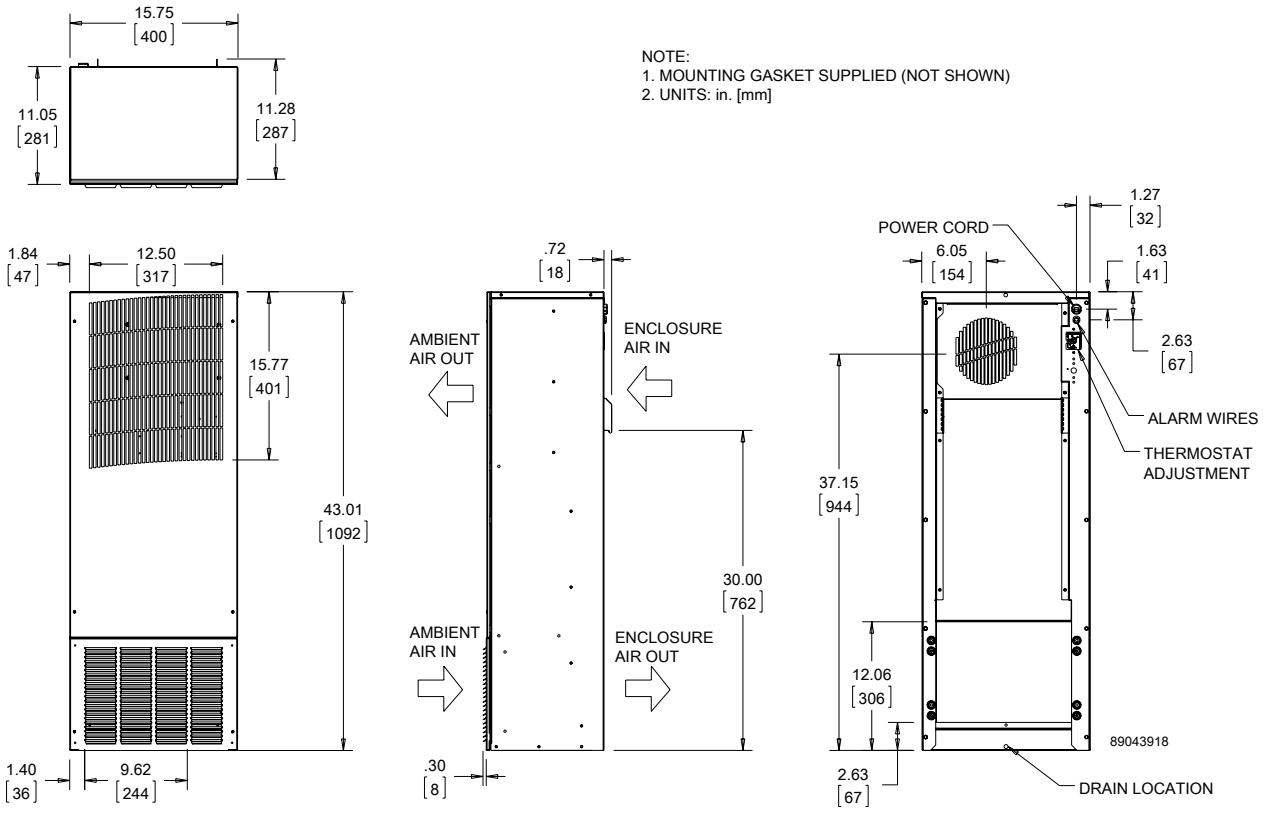
T43-10X6-G150 Capacity Curves 50 Hz

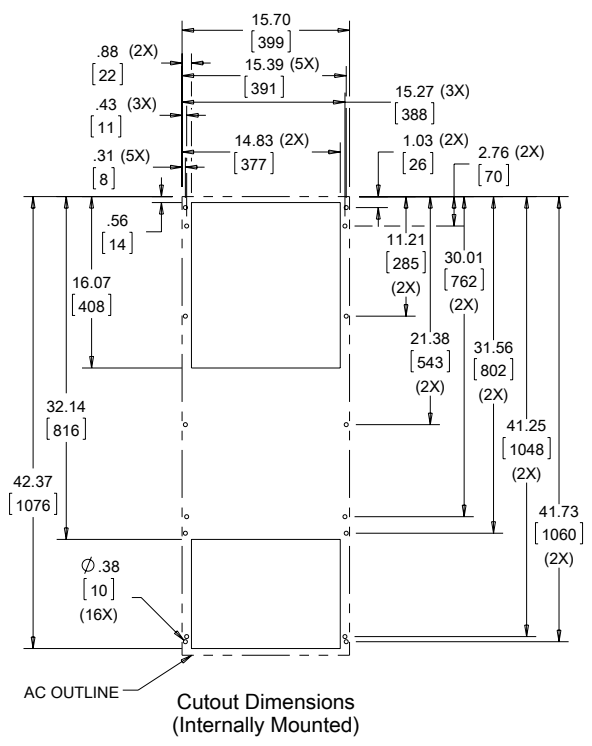


T43-10X6-G150 Capacity Curves 60 Hz

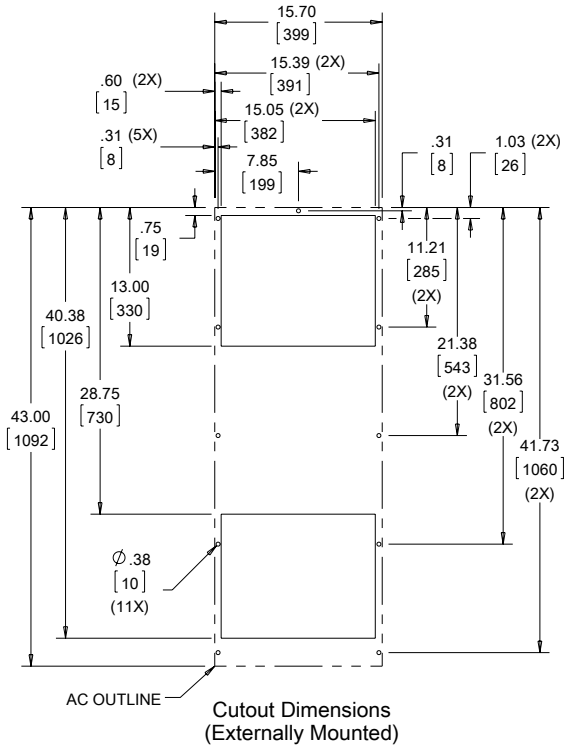


T43 6000-10000 Models BTU/HR. (1758 - 2930 Watt)





Cutout Dimensions
(Internally Mounted)



Cutout Dimensions
(Externally Mounted)

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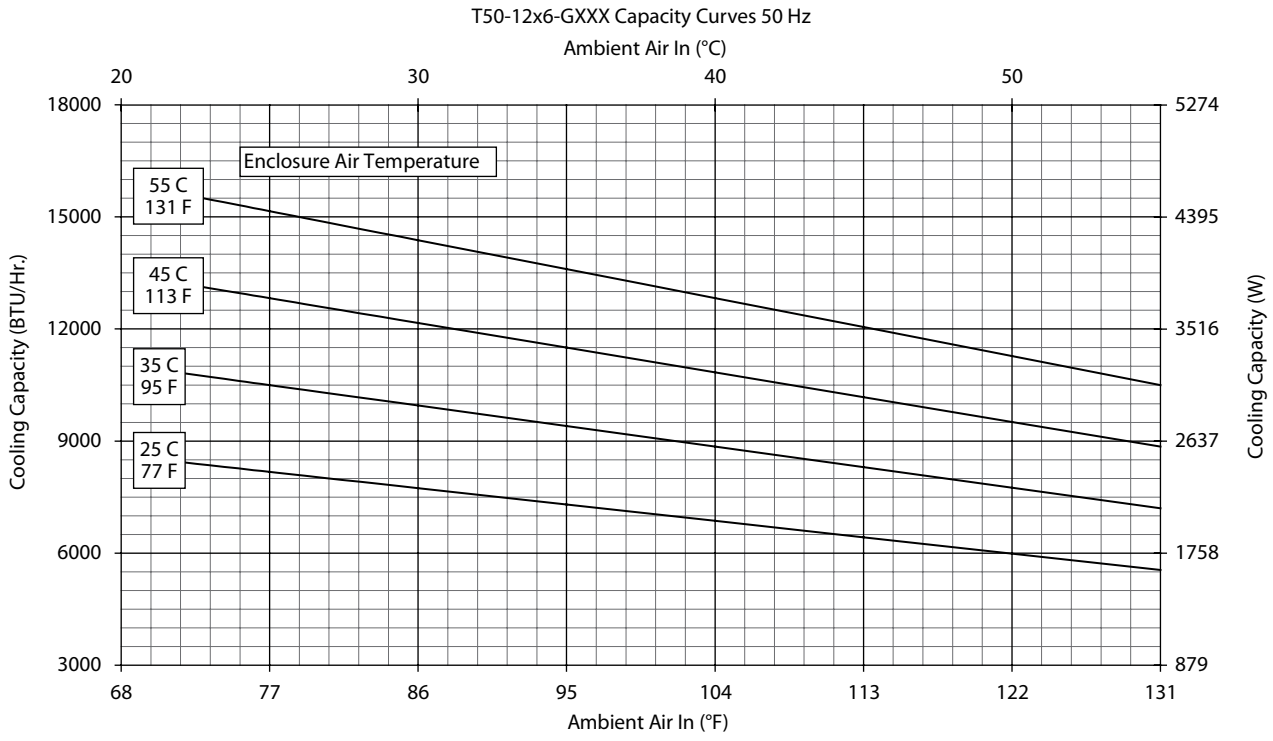
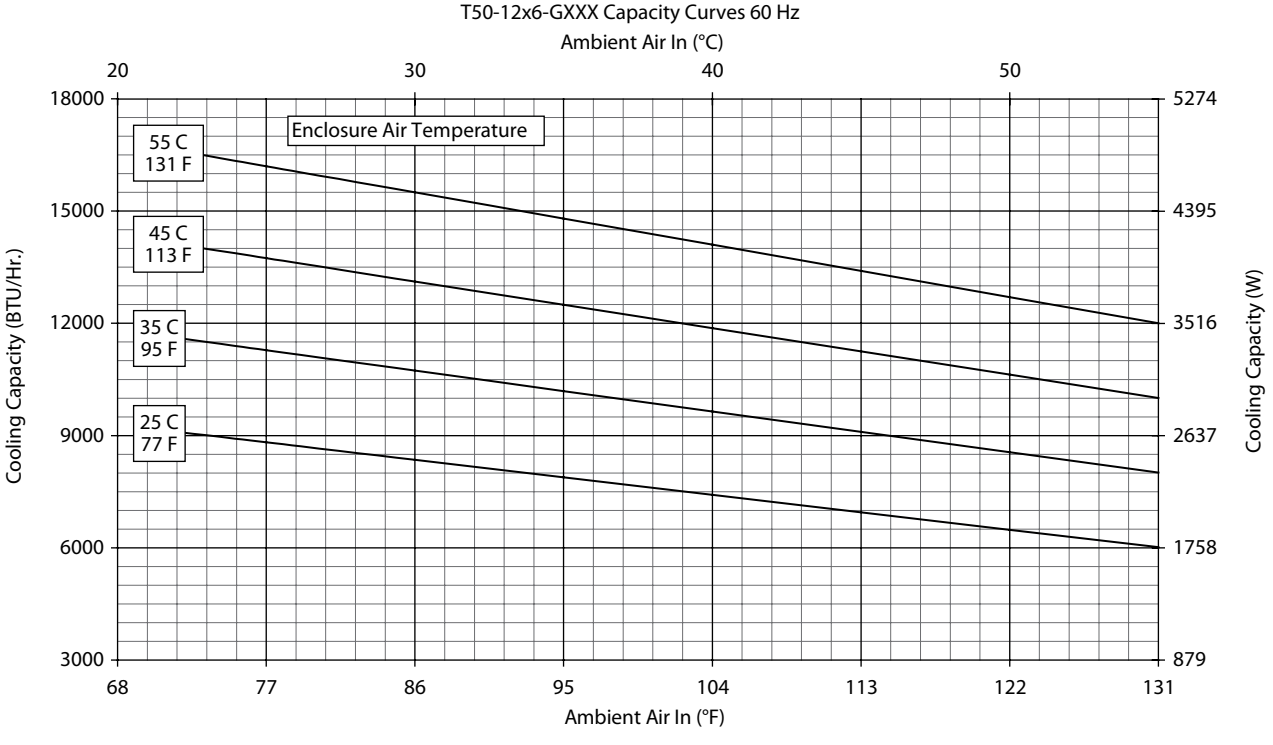
Performance Data **T50 12000 BTU/Hr. (3516 Watt) Models**

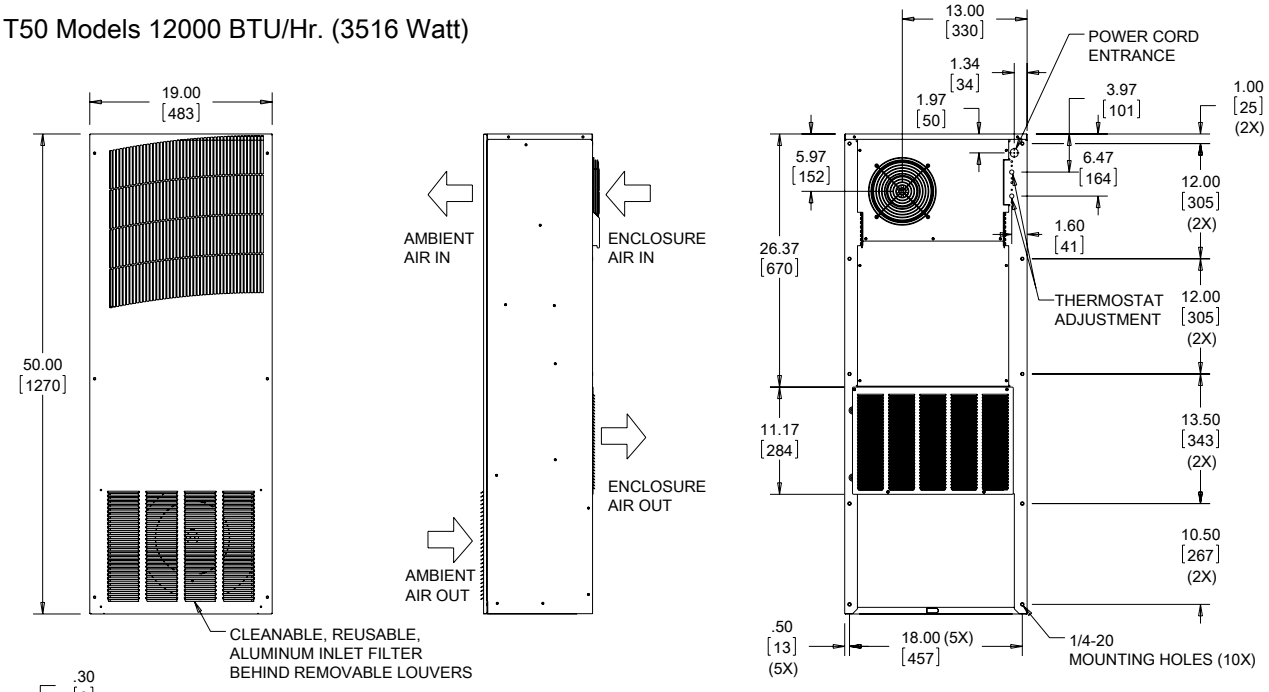
CATALOG NUMBER		
Outdoor Model without Heat Pkg.	T501226G100	T501246G400
Outdoor Model with Heat Pkg.	T501226G150	—
Outdoor Model/SST/Corrosion/4X	T501226G125	T501246G401
Outdoor Model/SST/Corrosion/4X/Heater	T501226G156	—
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**11000/12000**	**11000/12000**
Watts	**3223/3516**	**3223/3516**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	10030/12000	10030/12000
W (50/60 Hz)	2939/3516	2939/3516
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	9300/10050	9300/10050
W (50/60 Hz)	2725/2945	2725/2945
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	46/1300	46/1300
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	300/510	300/510
External loop 50 Hz (CFM / m^3/hr.)	520/883	520/883
Internal loop 60 Hz (CFM / m^3/hr.)	368/626	368/626
External loop 60 Hz (CFM / m^3/hr.)	625/1062	625/1062
Max. Heater W (Outdoor Models)	1500	1500
ELECTRICAL DATA		
Rated Voltage	**220/230**	**460V 1PH**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1804/2139	2070/2346
Max. Nominal Current (A at 50/60 Hz)	8.2/9.3	4.5/5.1
Starting Current (A)	38	20
Agency Approvals	UL/cUL Listed CE EAC	cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure side on all base models	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	68 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	50/1270	
Width (in./mm)	19/483	
Depth (in./mm)	11.05/281	
Weight (lb./kg)	164/75	

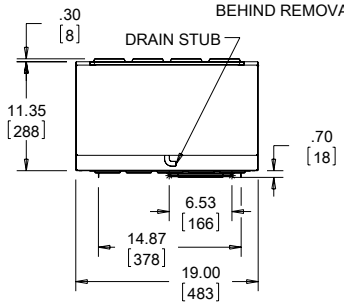
Performance Curves for T50 Models 12000 BTU/Hr. (3516 Watt)



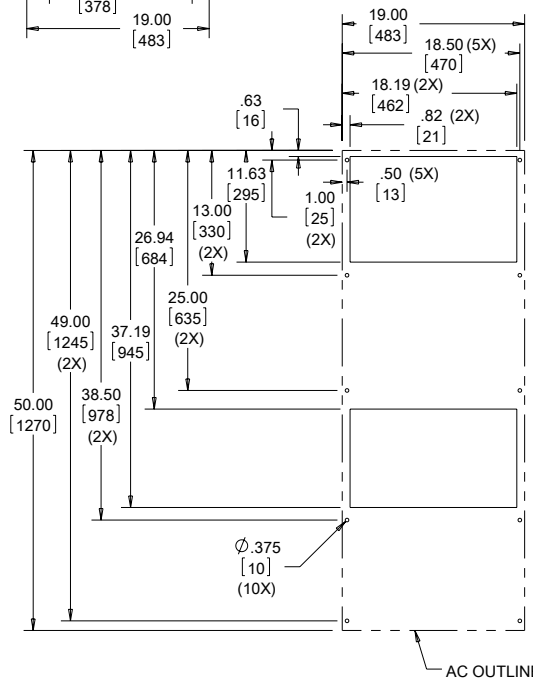


T50 Models 12000 BTU/Hr. (3516 Watt)

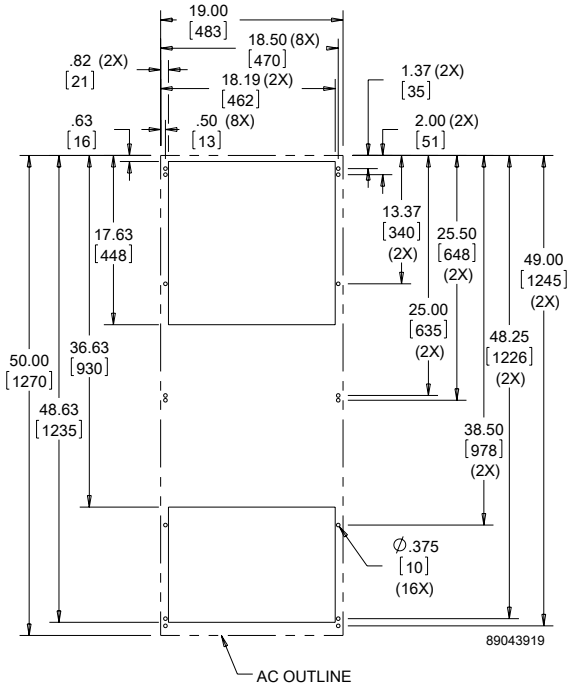




NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions
(Externally Mounted)



Cutout Dimensions
(Internally Mounted)

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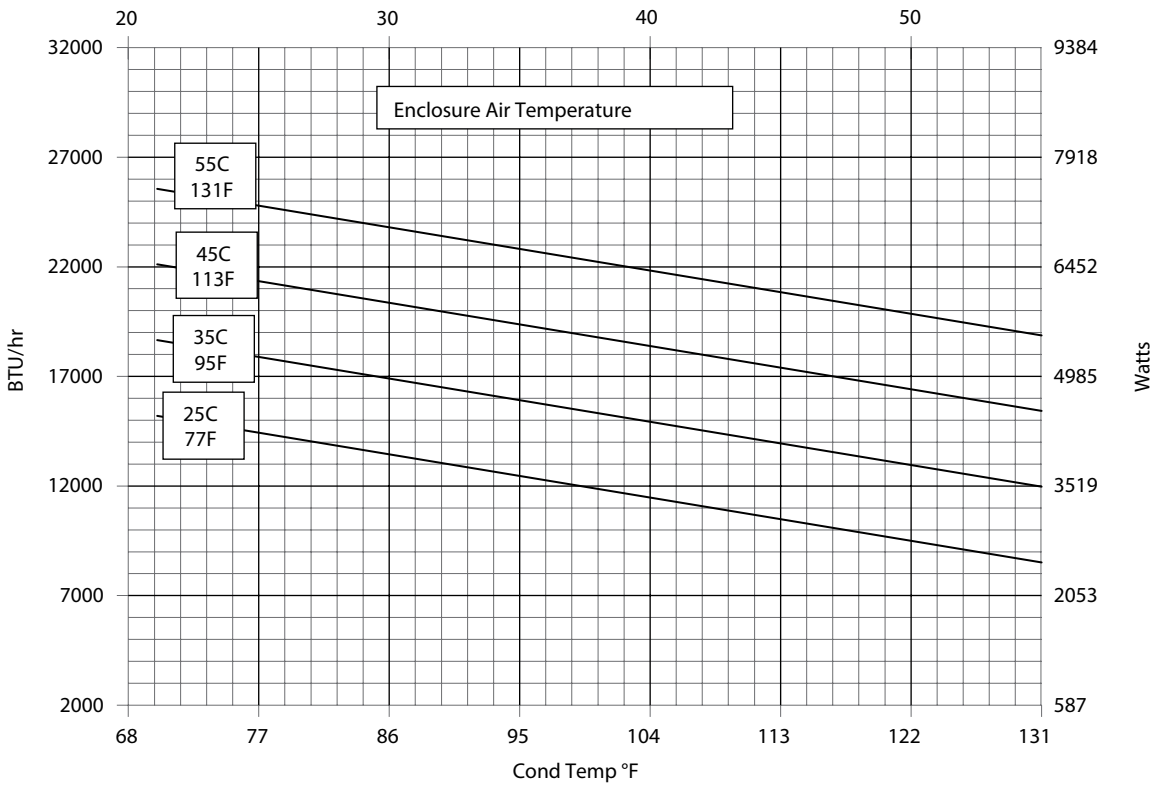
Performance Data **T53 19000 BTU/Hr. (5567 Watt) Models**

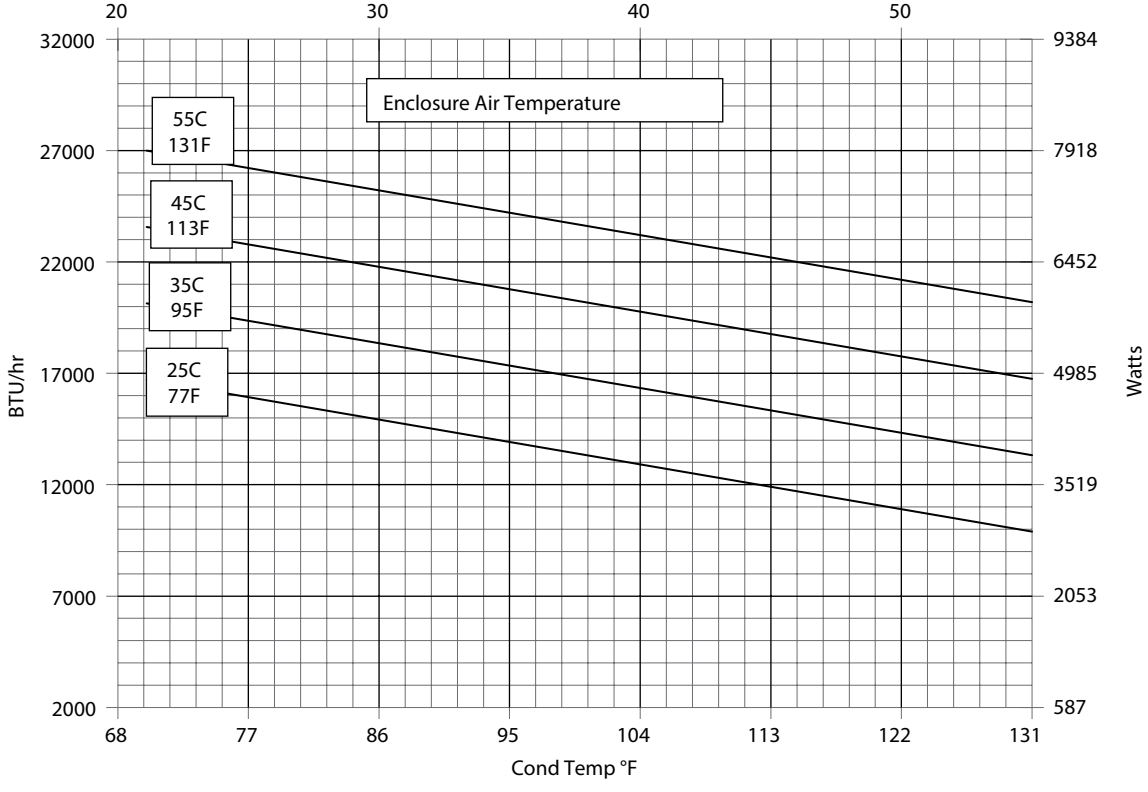
CATALOG NUMBER		
Outdoor Model without Heat Pkg.	T531926G100	T531946G400
Outdoor Model with Heat Pkg.	T531926G150	—
Outdoor Model/SST/Corrosion/4X	T531926G109	—
Outdoor Model/SST/Corrosion/4X/Heater	T531926G151	—
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**18400/20400**	**18400/20400**
Watts	**5392/5978**	**5392/5978**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	18488/20431	18488/20431
W (50/60 Hz)	5418/5987	5418/5987
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	15833/18087	15833/18087
W (50/60 Hz)	4640/5300	4640/5300
Refrigerant	407C	407C
Refrigerant Charge (ounces/grams)	42/1191	42/1191
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	449/763	449/763
External loop 50 Hz (CFM / m^3/hr.)	1204/2046	1204/2046
Internal loop 60 Hz (CFM / m^3/hr.)	519/882	519/882
External loop 60 Hz (CFM / m^3/hr.)	1300/2209	1300/2209
Max. Heater W (Outdoor Models)	3000	
ELECTRICAL DATA		
Rated Voltage	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	3105/3703	3404/4094
Max. Nominal Current (A at 50/60 Hz)	13.5/16.1	7.4/8.9
Starting Current (A)	54	28
Agency Approvals	UL/cUL Listed CE EAC	cUR Recognized CE EAC
Power Input Description	Terminal block	
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure side on all base models	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	76 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	53.0/1346.2	
Width (in./mm)	21.0/533.4	
Depth (in./mm)	13.0/330.2	
Weight (lb./kg)	197/90	237/108

Performance Curves for T53 Models 19000 BTU/Hr. (5567 Watt)

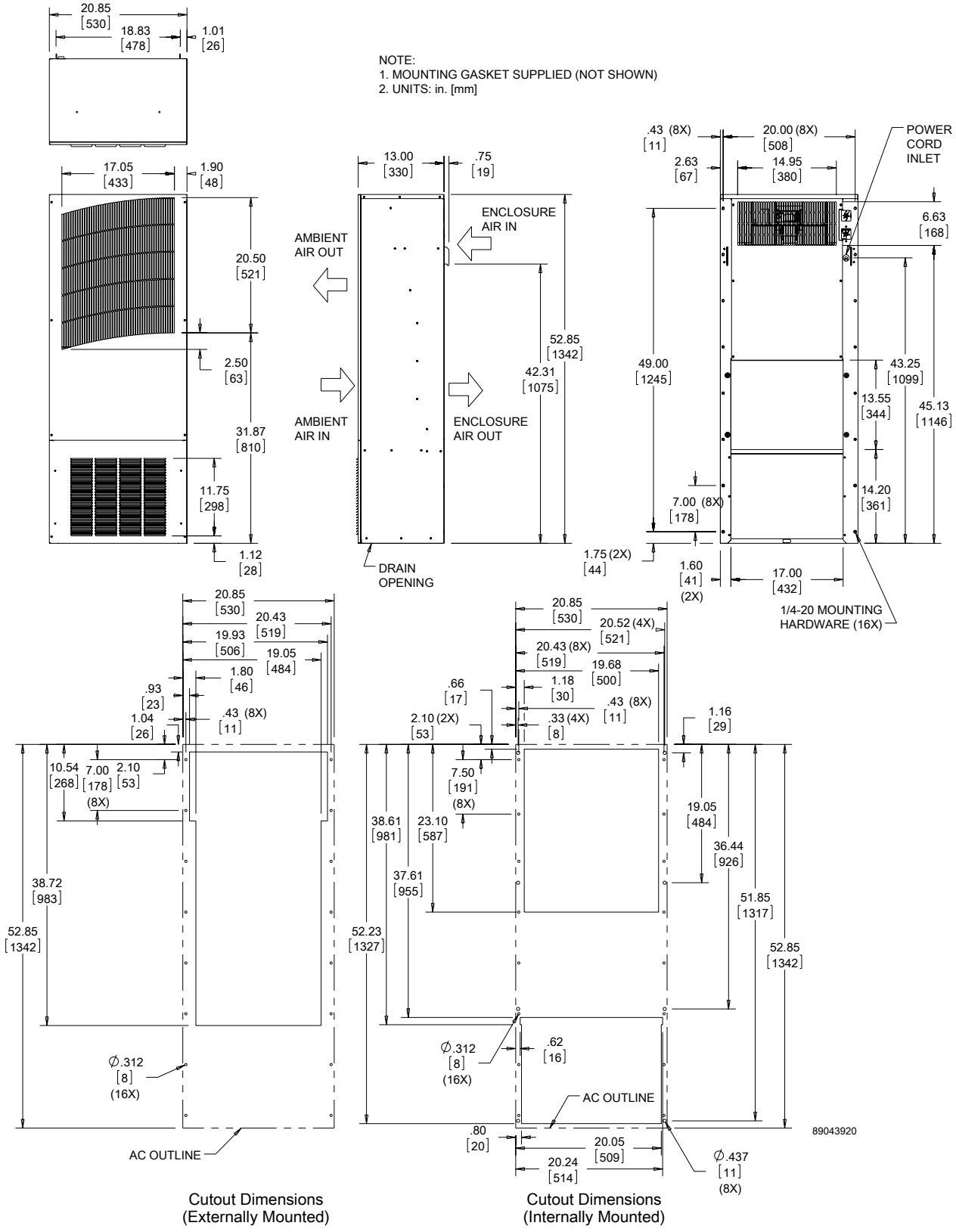
T53-19x6-GXXX Capacity Curves at 50Hz



T53-19x6-GXXX Capacity Curves at 60Hz



T53 Models 19000 BTU/Hr. (5567 Watt)



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Notes

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T-SERIES LARGE CAPACITY OUTDOOR

T62
20000 BTU/Hr.
5860 Watts

T70-36
36000 BTU/Hr.
10548 Watts

T70-60
59000 BTU/Hr.
17287 Watts

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453
UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC
Telcordia GR-487 capable

APPLICATION

- Industrial automation
- Telecommunications equipment
- Package handling equipment
- Security and defense systems
- And more

FEATURES

- Stock models equipped with head pressure control for low-ambient operation, compressor heater, coated condenser coil, malfunction switch, thermostat and heater package
- R-407C earth-friendly refrigerant
- Models for 230 and 460 VAC power input
- UL Listed to save customers time and money with agency approvals (some models UL recognized)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
- Exterior and fully recessed mounting options on many models
- Compact footprint to minimize real estate and maximize capacity
- Reliable mechanical thermostat on enclosure side of the unit
- Dual condenser-side air movers for performance redundancy
- Painted galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Outdoor Air Conditioner models also include:
  - Telcordia GR-487 capable
  - Thermostat
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control
  - Enclosure heater

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
- Outdoor Package
- Harsh Environment Package*
- Stainless Steel Package*
- Heater Package

* PROAIR A/C may be more appropriate. Refer to PROAIR A/C Chapter. Consult the Factory for availability and catalog number.

NOTES

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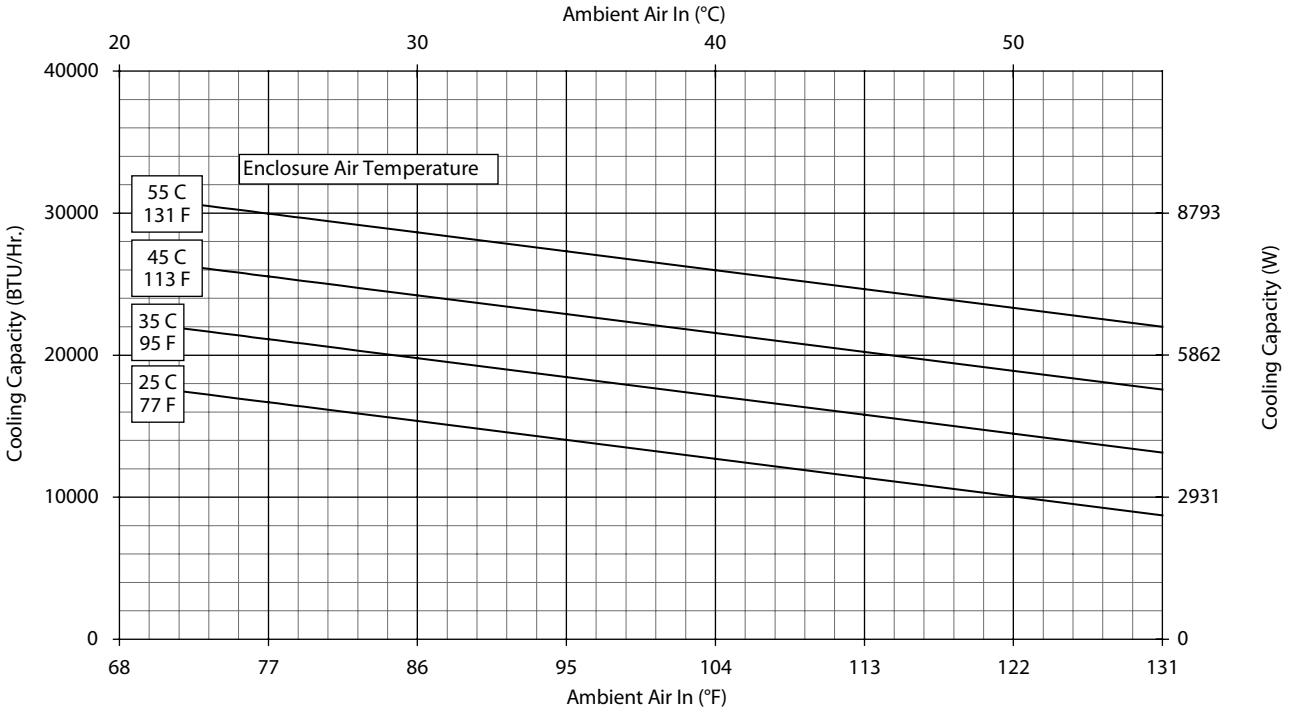
Performance Data **T62 20000 BTU/Hr. (5860 Watt) Models**

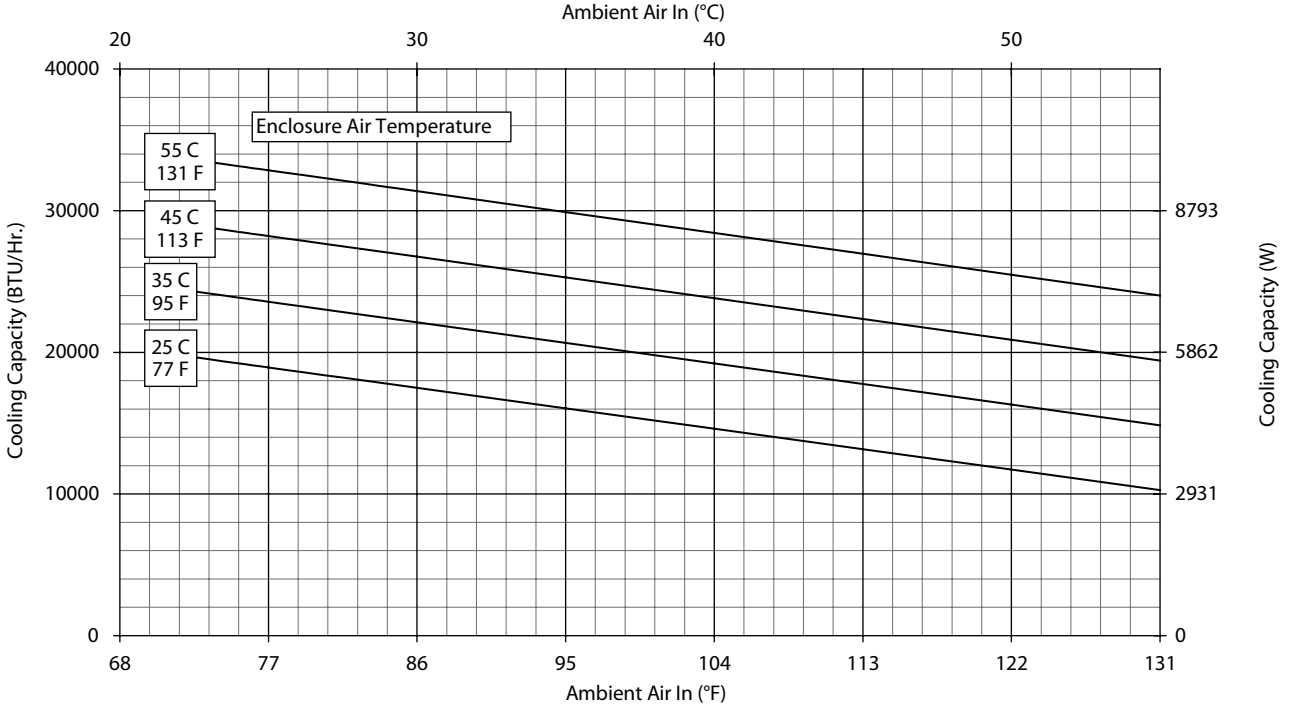
CATALOG NUMBER		
Outdoor Model with Heat Pkg.	T622226G150	T622246G400
Outdoor Model/SST/Corrosion/4X	T622226G102	
Outdoor Model/SST/Corrosion/4X/Heater	T622226G151	
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**20500/23500**	**20500/23500**
Watts	**6007/6886**	**6007/6886**
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	20860/23927	20860/23927
W (50/60 Hz)	6113/7012	6113/7012
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	18258/20256	18258/20256
W (50/60 Hz)	5351/5936	5351/5936
Refrigerant	R-407C	
Refrigerant Charge (ounces/grams)	42/1300	42/1300
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	570/968	570/968
External loop 50 Hz (CFM / m^3/hr.)	1443/2452	1443/2452
Internal loop 60 Hz (CFM / m^3/hr.)	673/1143	673/1143
External loop 60 Hz (CFM / m^3/hr.)	1797/3053	1797/3053
Max. Heater W (Outdoor Models)	2000	Up to 3000 (Optional)
ELECTRICAL DATA		
Rated Voltage	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	4370/5060	7000/9200
Max. Nominal Current (A at 50/60 Hz)	19/22	10.5/12
Starting Current (A)	60	30
Agency Approvals	UL/cUL Listed CE EAC	cUR Recognized CE EAC
Power Input Description	Terminal block	Terminal block
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure ide on all base models	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	71 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	61.77/1568.96	61.77/1568.96
Width (in./mm)	19.91/505.71	19.91/505.71
Depth (in./mm)	17.36/440.94	17.36/440.94
Weight (lb./kg)	218/99.1	258/117

Performance Curves for T62 Models 20000 BTU/Hr. (5860 Watt)

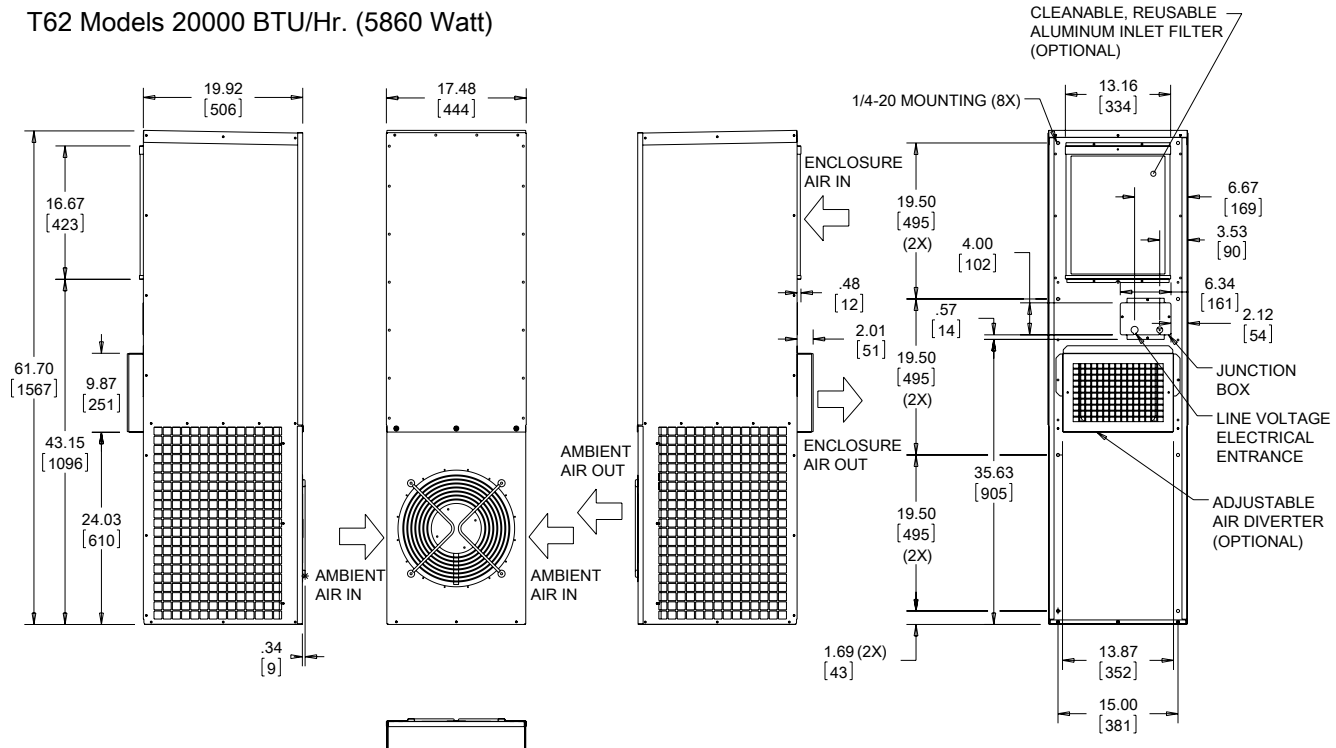
T62-22x6-GXXX R-407c Capacity Curves 50 Hz

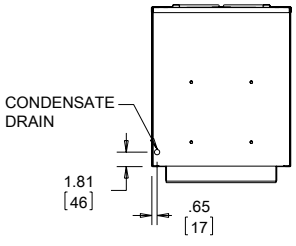


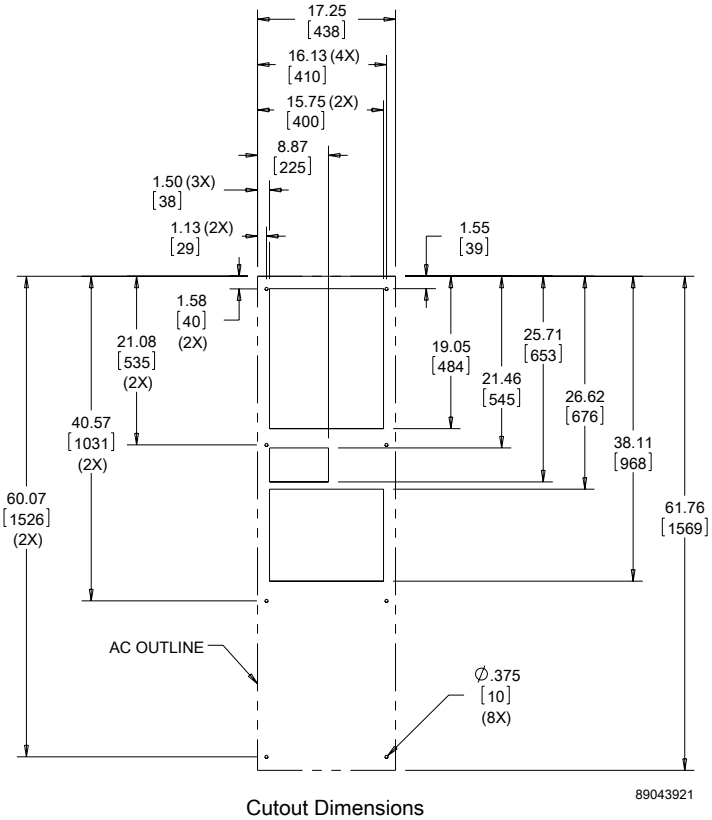
T62-22x6-GXXX R-407c Capacity Curves 60 Hz



T62 Models 20000 BTU/Hr. (5860 Watt)







NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN.
2. UNITS: in. [mm]

Cutout Dimensions

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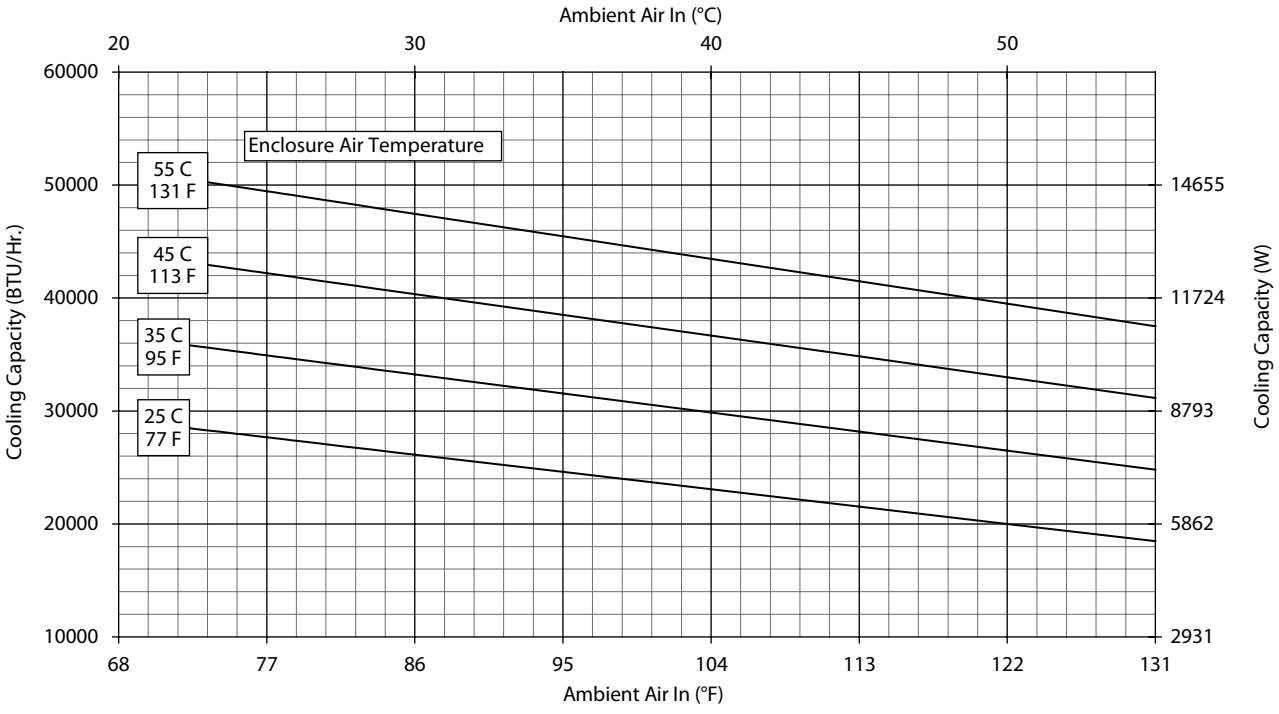
Performance Data **T70-36 36000 BTU/Hr. (10548 Watt) Models**

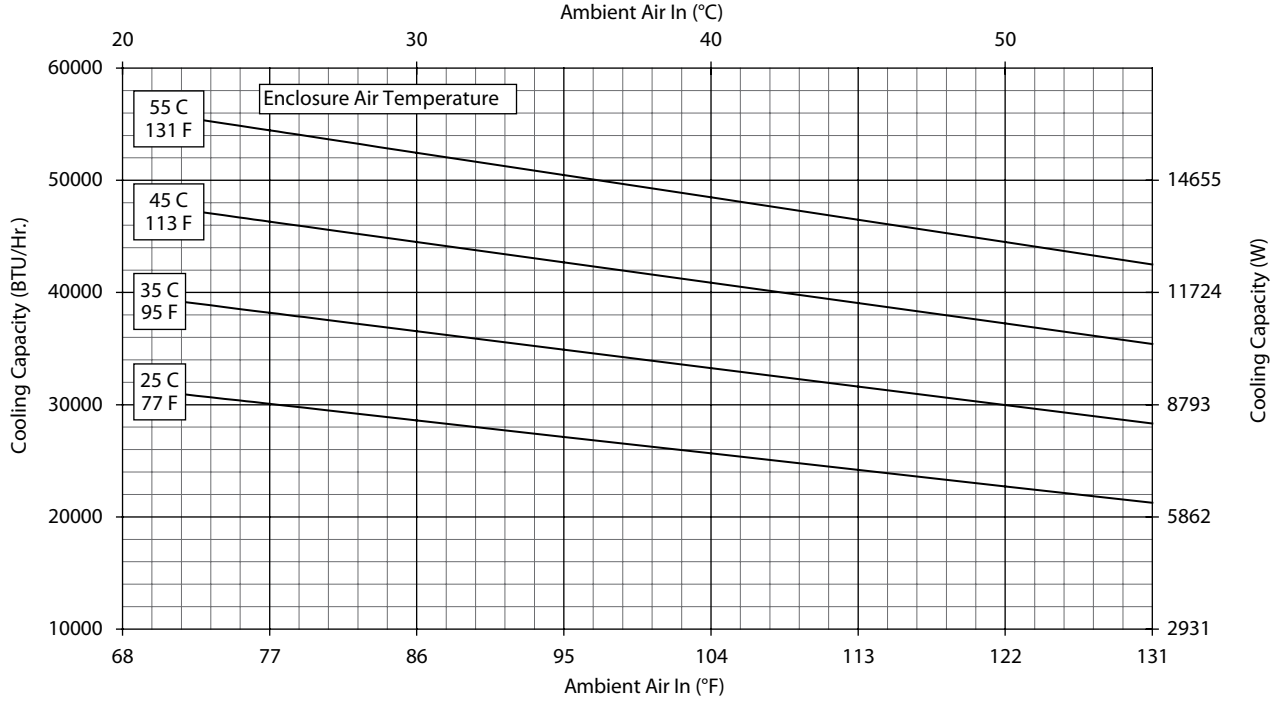
CATALOG NUMBER	T703626G150	T703646G400
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**39000/43000**	
Watts	**11430/12602**	
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	38613/42930	
W (50/60 Hz)	11316/12570	
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	31364/36130	
W (50/60 Hz)	9192/10579	
Refrigerant	R-407C	
Refrigerant Charge (ounces/grams)	110/3118	
Operating Temperature Range:		
Maximum (°F/°C)	131/55	
Minimum (°F/°C)Minimum (°F/°C)	-40/-40	
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	1085/1843	
External loop 50 Hz (CFM / m^3/hr.)	2176/3697	
Internal loop 60 Hz (CFM / m^3/hr.)	1171/1989	
External loop 60 Hz (CFM / m^3/hr.)	2347/3987	
Max. Heater W (Outdoor Models)	2000 Standard (5000 Optional)	
ELECTRICAL DATA		
Rated Voltage	**230**	**460**
Frequency (Hz)	50/60	60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	8280	8280
Max. Nominal Current (A at 50/60 Hz)	36	18
Starting Current (A)	104	52
Agency Approvals	UL/cUL Listed CE EAC Others available upon request	
Power Input Description	Terminal block	
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
International Rating	UL/cUL Listed	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Enclosure side on all base models	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	66 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	69.8/1772	
Width (in./mm)	22.8/578	
Depth (in./mm)	20.94/532	
Weight (lb./kg)	260/118	

Performance Curves for T70 Models 36000 BTU/Hr. (10548 Watt)

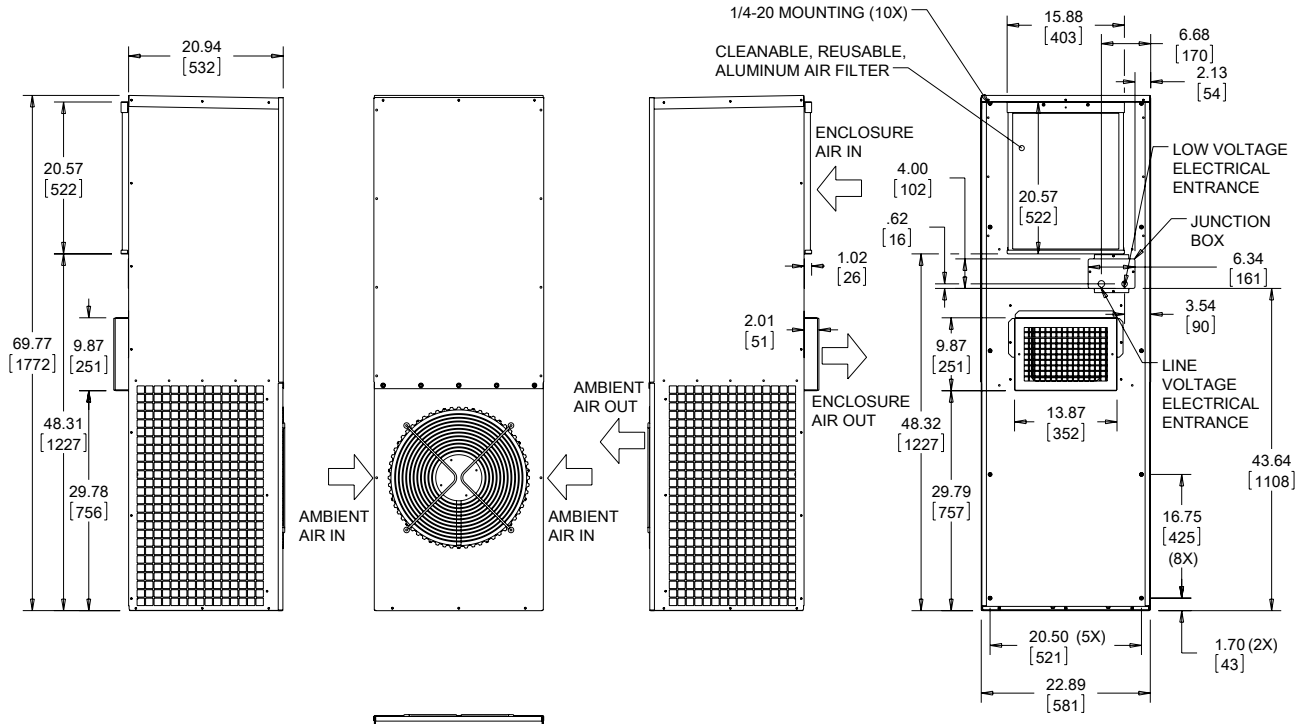
T70-36X6-GXXX R-407c Capacity Curves 50 Hz

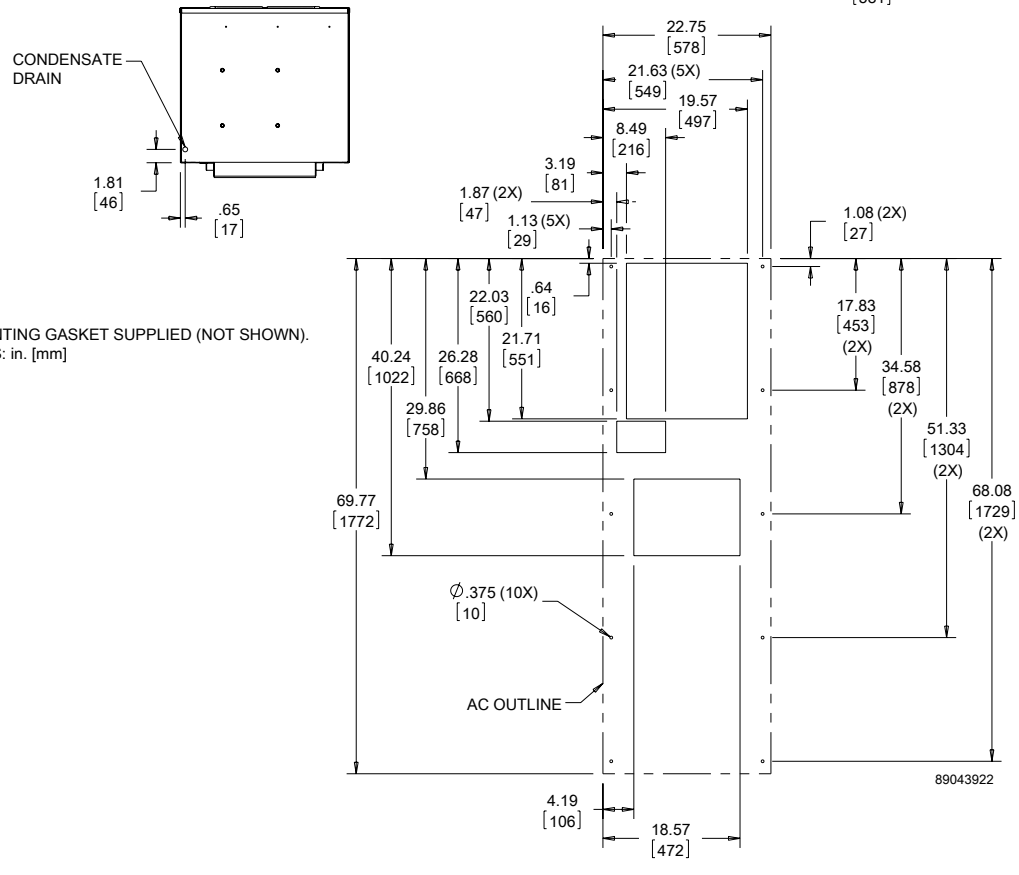


T70-36X6-GXXX R-407c Capacity Curves 60 Hz



T70 Models 36000 BTU/Hr. (10548 Watt)





NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN).
2. UNITS: in. [mm]

Cutout Dimensions

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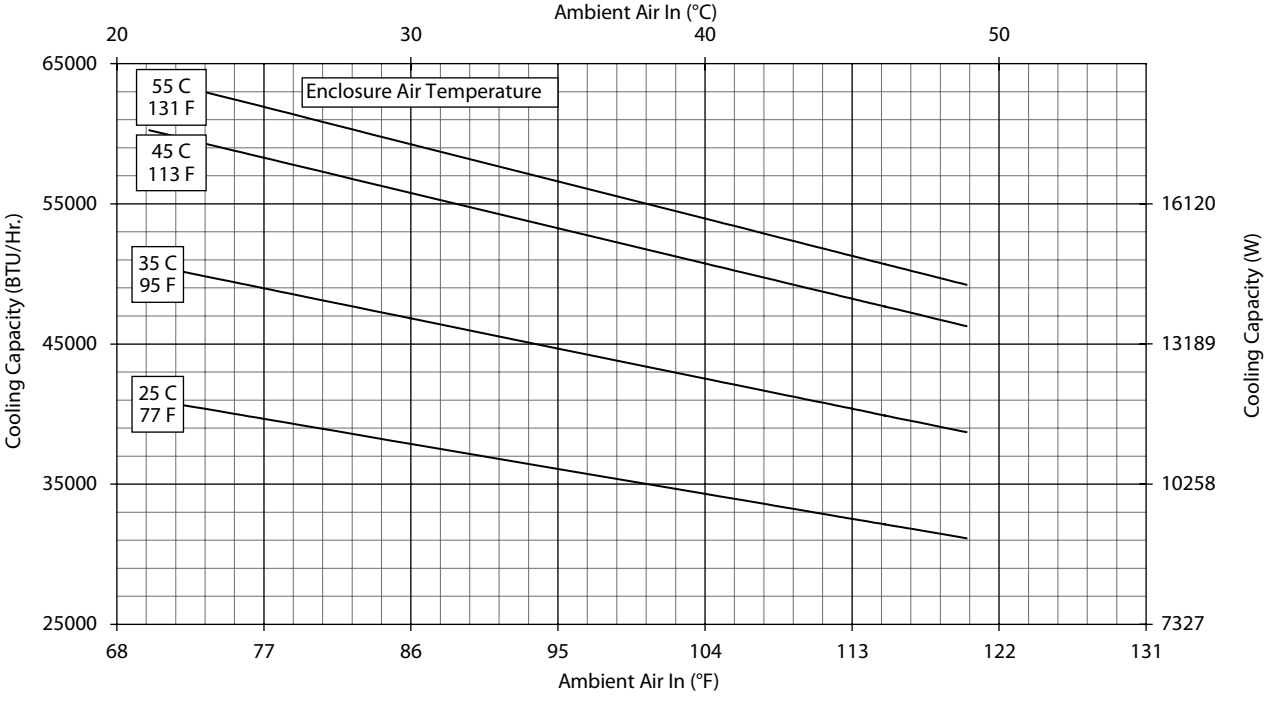
Performance Data **T70-60 59000 BTU/Hr. (17287 Watt) Models**

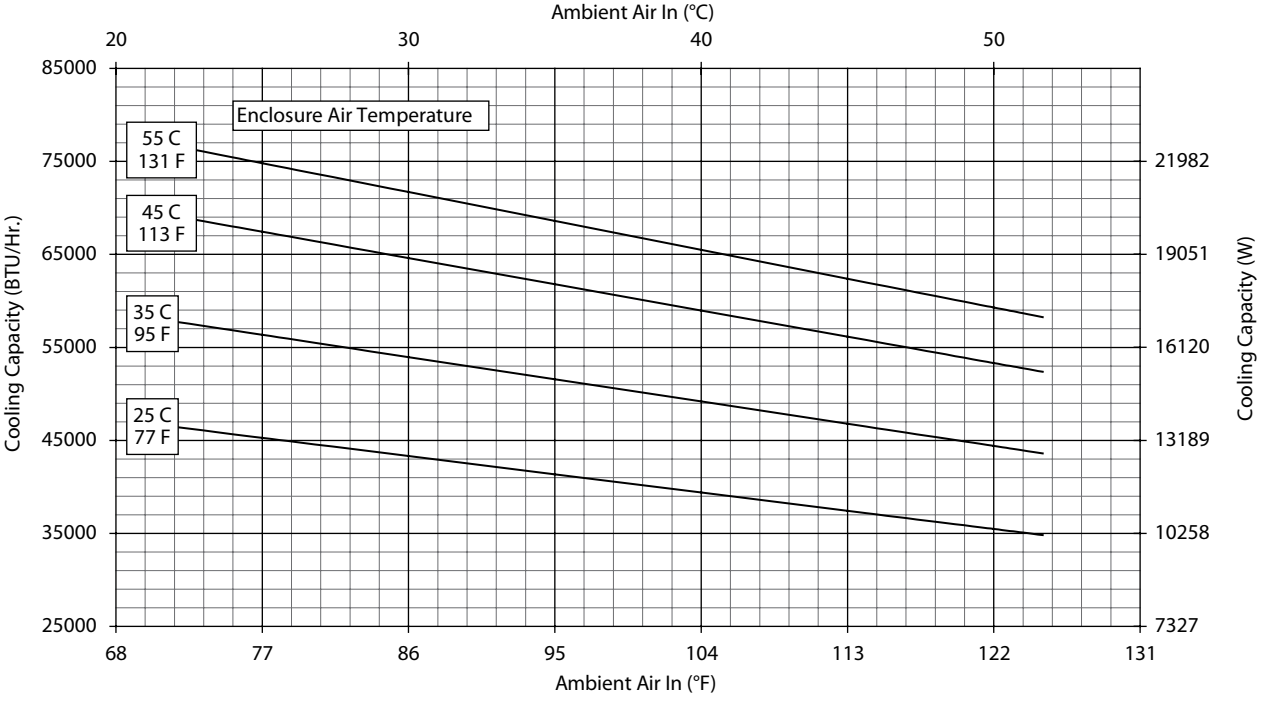
CATALOG NUMBER	T706026G150	T706046G400
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**51900/60000**	
Watts	**15210/17584**	
At 122 F/122 F (50 C/50 C):		
BTU/Hr. (50/60 Hz)	51900/60000	
W (50/60 Hz)	15210/17584	
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	47122/54500	
W (50/60 Hz)	13810/15972	
Refrigerant	R-407C	
Refrigerant Charge (ounces/grams)	150/4252	
Operating Temperature Range:		
Maximum (°F/°C)	122/50	
Minimum (°F/°C)	-40/-40	
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	1510/2565	
External loop 50 Hz (CFM / m^3/hr.)	2716/4614	
Internal loop 60 Hz (CFM / m^3/hr.)	1629/2767	
External loop 60 Hz (CFM / m^3/hr.)	2931/4979	
Max. Heater W (Outdoor Models)		
ELECTRICAL DATA		
Rated Voltage	**200/230**	**420/460**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	7000/9200	6426/7038
Max. Nominal Current (A at 50/60 Hz)	35/40	15.3
Starting Current (A)	144	144
Agency Approvals	UL/cUL Listed CE EAC Others available upon request	
Power Input Description	Terminal block	
ENCLOSURE PROTECTION		
UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional	
International Rating	IP56 on the internal loop; IP34 on the external loop	
Description	Basic mechanical thermostat	
CONTROLLER		
Thermostat Location	Enclosure side on all base models	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	66 dB(A)	
UNIT CONSTRUCTION		
Material	Galvanized sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	69.77/1772	
Width (in./mm)	35.86/911	
Depth (in./mm)	22.94/583	
Weight (lb./kg)	419/190.5	

Performance Curves for T70 Models 59000 BTU/Hr. (17287 Watt)

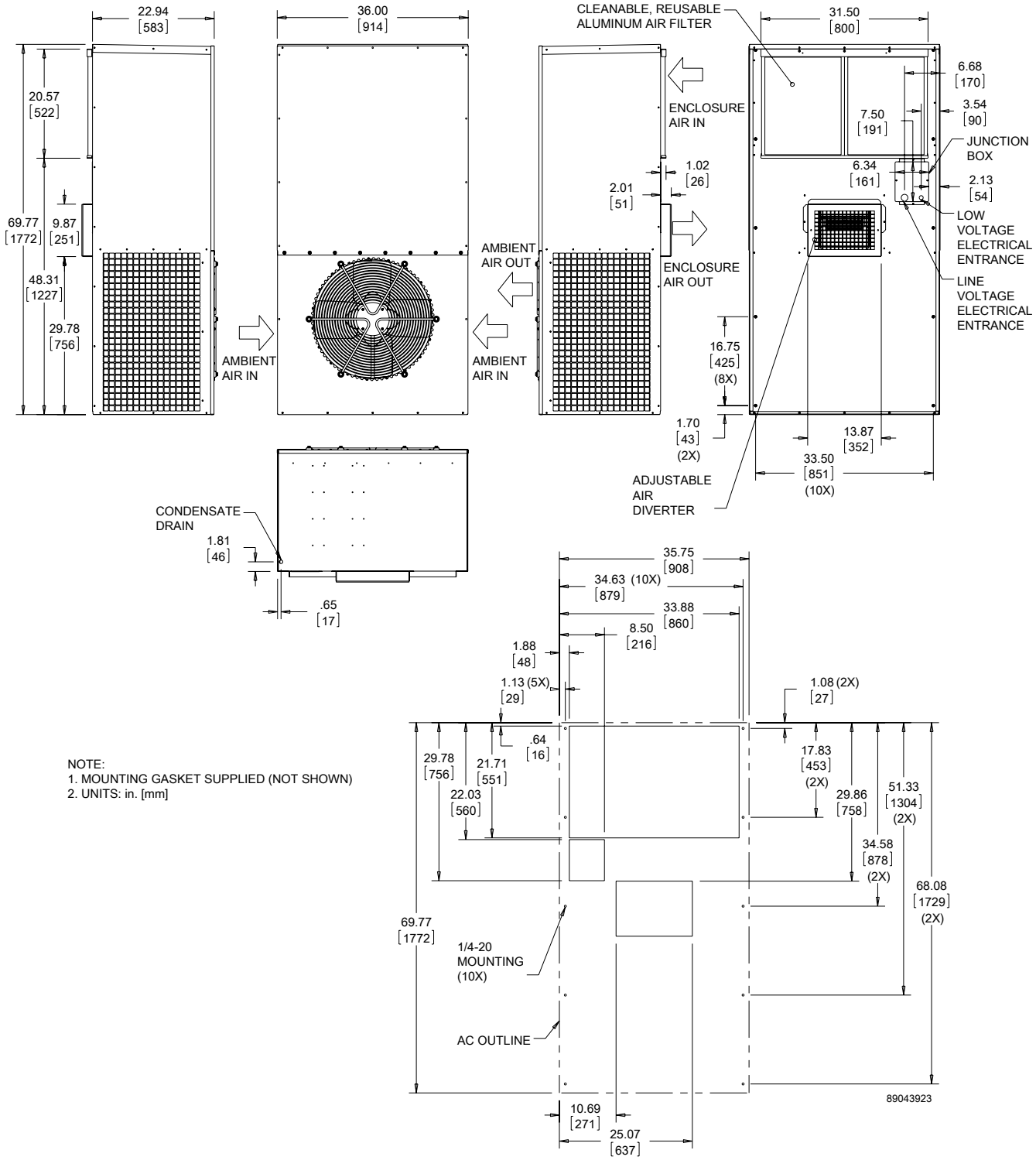
T70-60X6-GXXX R-407c Capacity Curves 50 Hz



T70-60X6-GXXX R-407c Capacity Curves 60 Hz



T70 Models 59000 BTU/Hr. (17287 Watt)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]

Cutout Dimensions

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GENESIS TOP-MOUNT INDOOR

HB16
8000 BTU/Hr.
2051 Watt

MHB11
2200-4000 BTU/Hr.
645-1172 Watt

INDUSTRY STANDARDS

UL/cUL Listed; Type 12; File No. SA6453
UR/cUR Recognized

Maintains U/cUL Type 12 rating when properly installed on a UL/cUL Type 12 enclosure.
UR/cUR Recognized on select models, reference performance data tables.
CE
EAC

APPLICATION

- Industrial automation
- Package handling equipment
- Security and defense systems
- Ideal for use where there is little or no clearance around the enclosure

FEATURES

- Robust reciprocating compressor
- R134a and R407c earth-friendly refrigerant
- Models for 115, 230 and 460 single-phase VAC power input
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from 50 F/10 C to 125 F/52 C
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat located behind the filter of the unit
- Low-carbon mild-steel sheet-metal cover for rugged factory environments
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
  - Electro-Mechanical Thermostat
  - Surge Suppressor
  - Condensate Management System On MHB11 models

FINISH

- RAL 7042 gray, semi-gloss powder-coat paint standard
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
  * Consult the factory for availability and catalog number

NOTES

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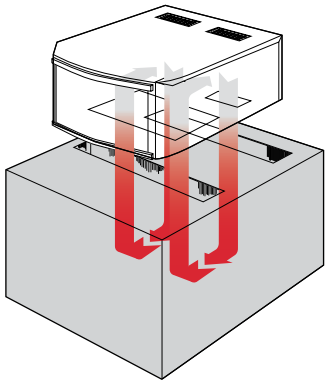


Top-Mount to Enclosure

Performance Data **MHB11 Models 2200 BTU/Hr. (645 Watt)**

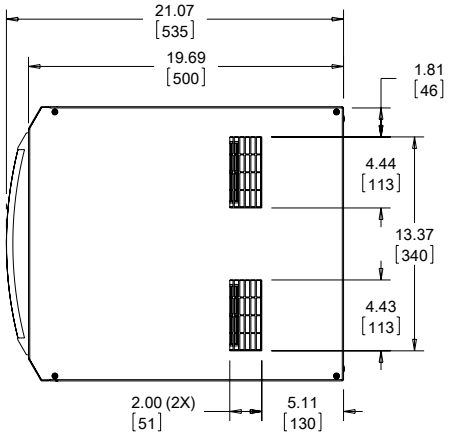
CATALOG NUMBER	MHB110216G306	MHB110226G306	MHB110246G400
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**2200/2200**	**2200/2200**	**2200/2200**
Watts	**645/645**	**645/645**	**645/645**
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	11/312	11/312	11/312
Operating Temperature Range:			
Maximum (°F/°C)	125/52	125/52	125/52
Minimum (°F/°C)	50/10	50/10	50/10
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	158/268	170/289	170/289
External loop 50 Hz (CFM / m^3/hr.)	222/377	218/370	218/370
Internal loop 60 Hz (CFM / m^3/hr.)	177/301	192/326	192/326
External loop 60 Hz (CFM / m^3/hr.)	252/428	245/416	245/416
ELECTRICAL DATA			
Rated Voltage	**115**	**220/230**	**440/460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1127/1035	1210/1058	1320/1150
Max. Nominal Current (A at 50/60 Hz)	9.8/9.0	5.5/4.6	3.0/2.5
Starting Current (A)	28	14.4	7.4
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12 standard		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Behind filter		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	62 dB(A)		
UNIT CONSTRUCTION			
Material	Mild steel sheet metal standard Stainless steel optional		
Finish	RAL 7042 gray, semi-gloss powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	10.25/260	10.25/260	10.25/260
Width (in./mm)	17/432	17/432	17/432
Depth (in./mm)	21.08/535	21.08/535	21.08/535
Weight (lb./kg)	90/41	90/41	110/50

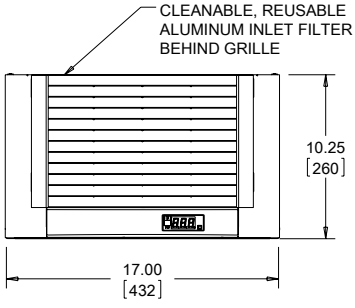
Performance Data **MHB11 Models 4000 BTU/Hr. (1172 Watt)**

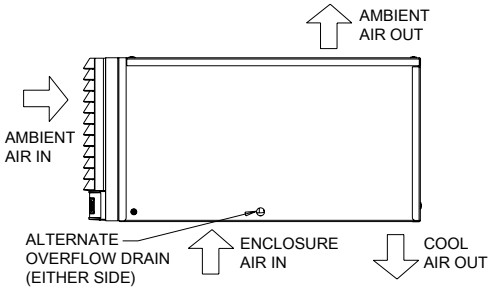
CATALOG NUMBER	MHB110416G307	MHB110426G306	MHB110446G400
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**3300/4000**	**3300/4000**	**3300/4000**
Watts	**967/1172**	**967/1172**	**967/1172**
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	13/369	13/369	13/369
Operating Temperature Range:			
Maximum (°F/°C)	125/52	125/52	125/52
Minimum (°F/°C)	50/10	50/10	50/10
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	158/268	170/289	170/289
External loop 50 Hz (CFM / m^3/hr.)	222/377	218/370	218/370
Internal loop 60 Hz (CFM / m^3/hr.)	177/301	192/326	192/326
External loop 60 Hz (CFM / m^3/hr.)	252/428	245/416	245/416
ELECTRICAL DATA			
Rated Voltage	**110/115**	**220/230**	**440/460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1617/1564	1760/1725	1936/1886
Max. Nominal Current (A at 50/60 Hz)	14.7/13.6	8.0/7.5	4.4/4.1
Starting Current (A)	48	23	12
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12 standard		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Behind filter		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	62 dB(A)		
UNIT CONSTRUCTION			
Material	Mild steel sheet metal standard Stainless steel optional		
Finish	RAL 7042 gray, semi-gloss powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	10.25/260	10.25/260	10.25/260
Width (in./mm)	17/432	17/432	17/432
Depth (in./mm)	21.08/535	21.08/535	21.08/535
Weight (lb./kg)	108/49	108/49	128/58

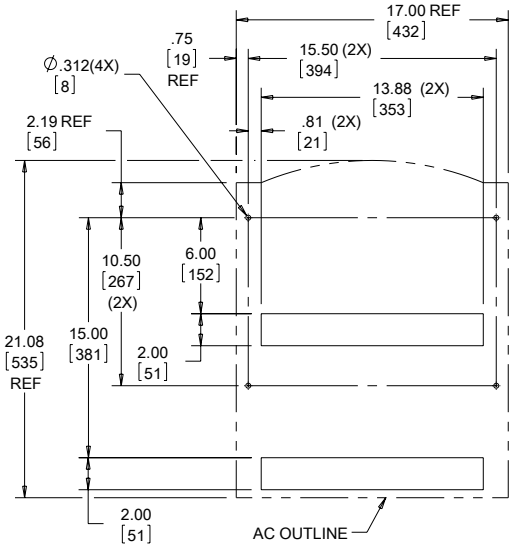
MHB11 Models 2200-4000 BTU/Hr. (645-1172 Watt)

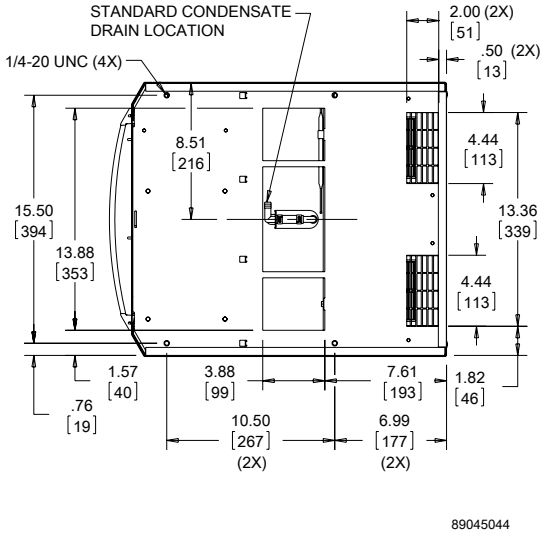
NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]
3. CUTOUT DIMENSIONS FOR STANDARD UNITS ONLY











Cutout Dimensions

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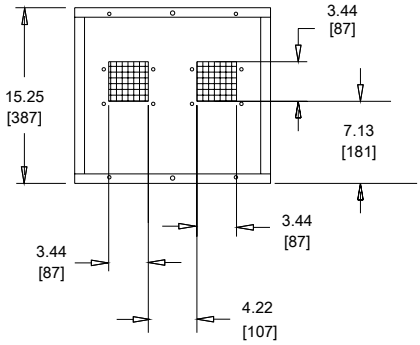
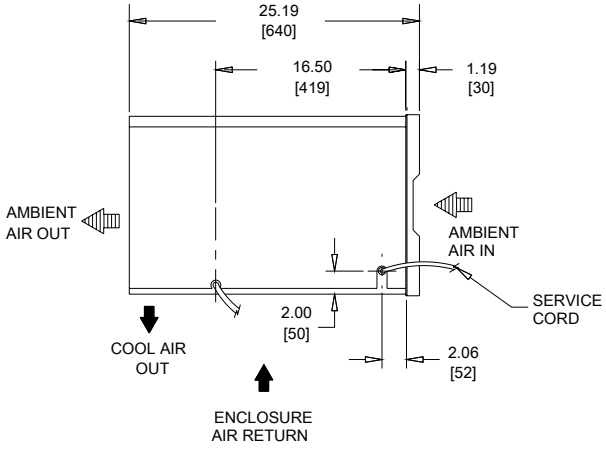
Performance Data **HB16 Models 8000 BTU/Hr. (2051 Watt)**

MODEL NUMBER			
Indoor Model	HB160816G040	HB160826G040	HB160846G040
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**7000/8000**	**7000/8000**	**7000/8000**
Watts	**2051/2344**	**2051/2344**	**2051/2344**
At 125 F/125 F (52 C/52 C):			
BTU/Hr. (50/60 Hz)	6975/8137	7075/8133	7075/8133
Watts (50/60 Hz)	2044/2385	2073/2384	2073/2384
At 95 F/95 F (35 C/35 C):			
BTU/Hr. (50/60 Hz)	6959/8236	6958/7774	6958/7774
W (50/60 Hz)	2039/2414	2039/2278	2039/2278
Refrigerant	R-407C	R-407C	R-407C
Refrigerant Charge (ounces/grams)	24/680	24/680	24/680
Operating Temperature Range:			
Maximum (°F/°C)	125/52	125/52	125/52
Minimum (°F/°C)	50/10	50/10	50/10
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1822/2223	1785/2105	2162
Max. Nominal Current (A at 50/60 Hz)	18.7/20.4	8.5/9.3	4.3/4.7
Starting Current (A)	67	29	15
Agency Approvals		UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA L8-20 plug
ENCLOSURE PROTECTION			
UL Type		Type 12 Standard	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side on All Base Models	
Factory Thermostat Setting (°F/°C)	80/27	80/27	80/27
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Standard (Optional: Stainless Steel)	
Finish		RAL 7042 gray, semi-gloss powder-coat paint standard Other colors and textures available	
UNIT DIMENSIONS			
Height (in./mm)	15.25/387.35	15.25/387.35	15.25/387.35
Width (in./mm)	17.00/431.80	17.00/431.80	17.00/431.80
Depth (in./mm)	25.19/639.76	25.19/639.76	25.19/639.76
Weight (lb./kg)	145.00/69.78	145.00/69.78	170.00/77.00

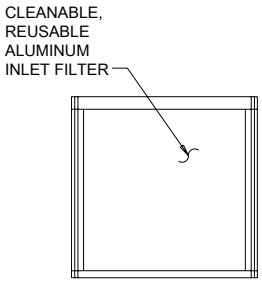
HB16 Models 8000 BTUs/Hr. (2051 Watts)



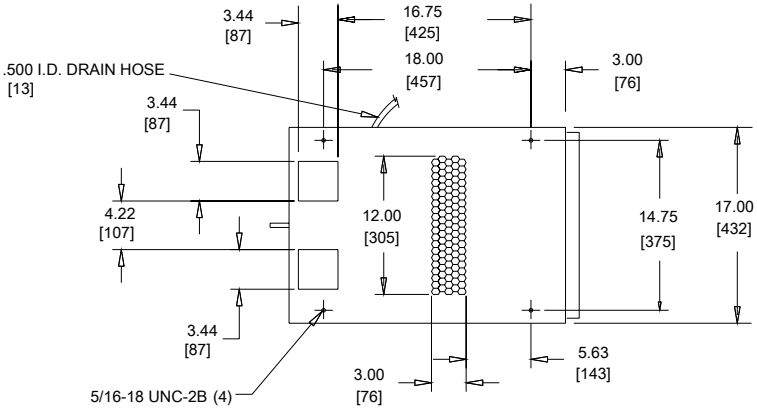
Rear View



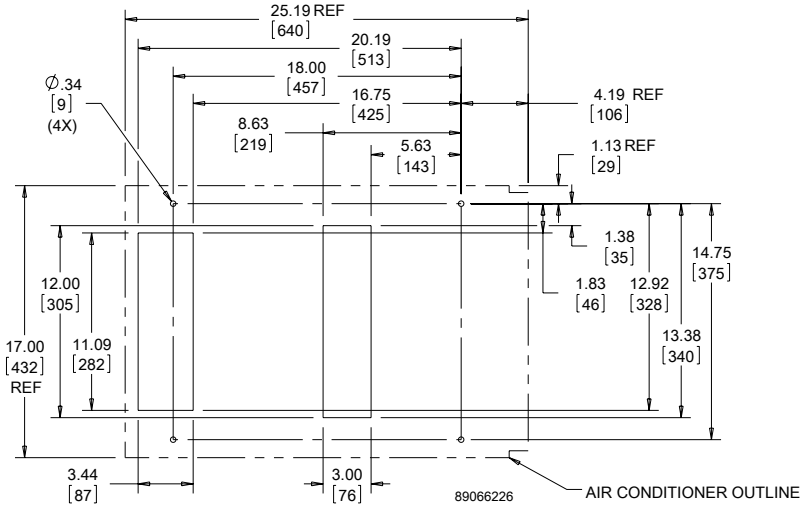
Side View



Front View



Bottom View



Cutout

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PROAIR HARSH ENVIRONMENT

CR23
1600 BTU/Hr.
469 Watt

CR29
2700 and 4000 BTU/Hr.
791 and 1172 Watts

CR43
6000 & 8000 BTU/Hr.
1758 and 2344 Watts

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453
UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC

APPLICATION

- Industrial automation
- Package handling equipment
- Food and beverage
- Wastewater treatment
- Security and defense systems
- And more

FEATURES

- Robust reciprocating compressor
- Easy maintenance: hinged front cover allows quick access to all components; condenser coil can be cleaned while unit is still mounted to the cabinet
- R134a or R407c earth-friendly refrigerant
- Models for 115, 230 and 460 single phase VAC power input
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from -40 F/-40 C to 131 F/55 C (with optional low-ambient package)
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat located behind the filter of the unit
- Low-carbon mild-steel sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cleanable reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- High-performance fans and blowers designed for densely packed enclosures
- Standard Indoor Air Conditioner models also include:
  - Electro-Mechanical Thermostat
  - Surge Suppressor

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Stainless steel Type 304 or 316 finishes available on Type 4X models
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
- Outdoor Package*
- Harsh Environment Package*
- Stainless Steel Package*
- Heater Package*

* T-Series may be more appropriate. Refer to T-Series A/C section. Consult the factory for availability and catalog number.

NOTES

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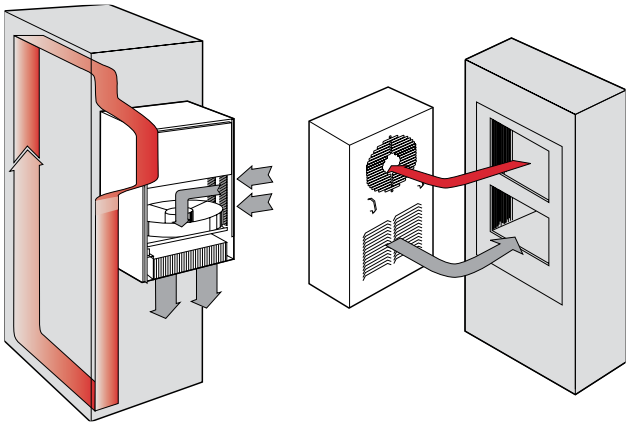
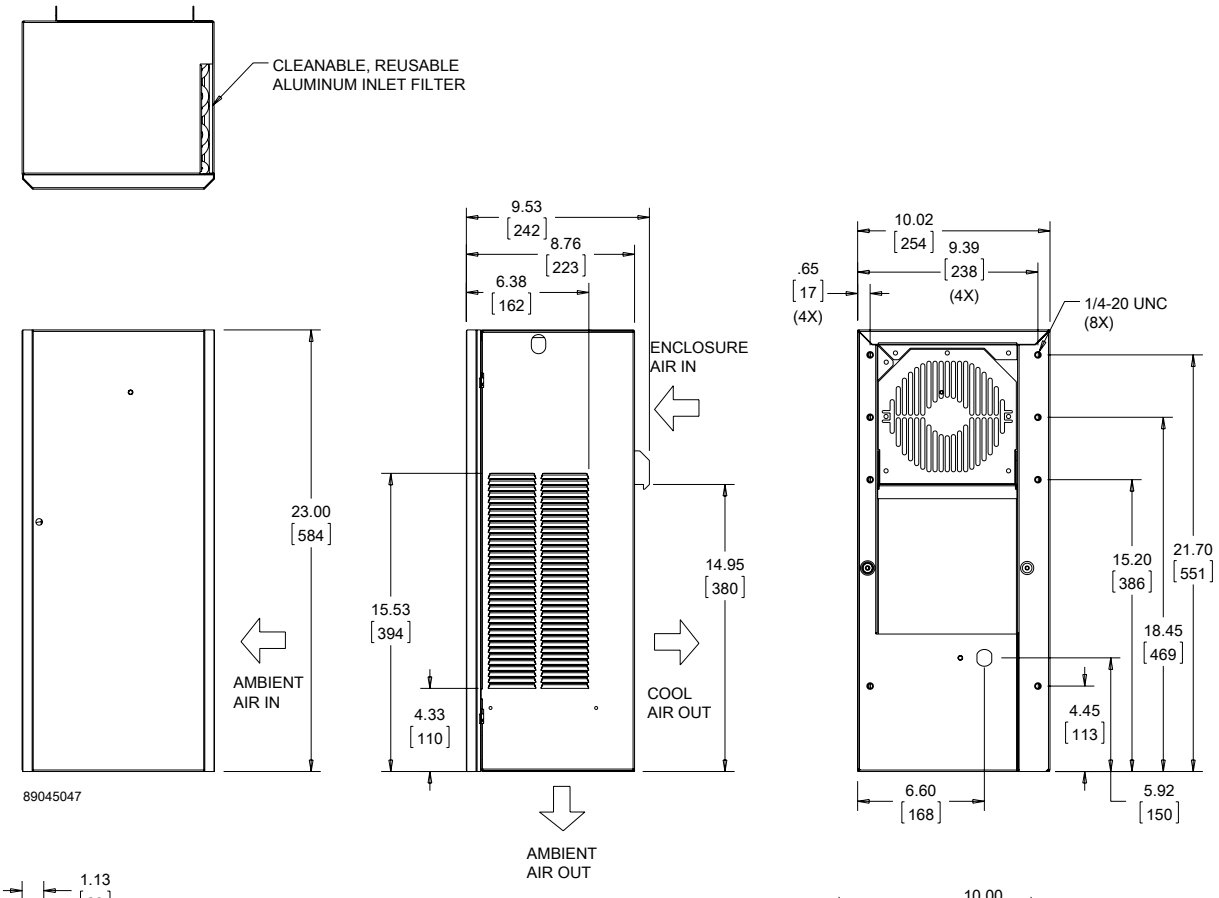
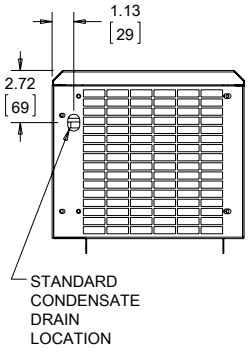
Performance Data **CR23 Models 1600 BTU/Hr. (469 Watt)**

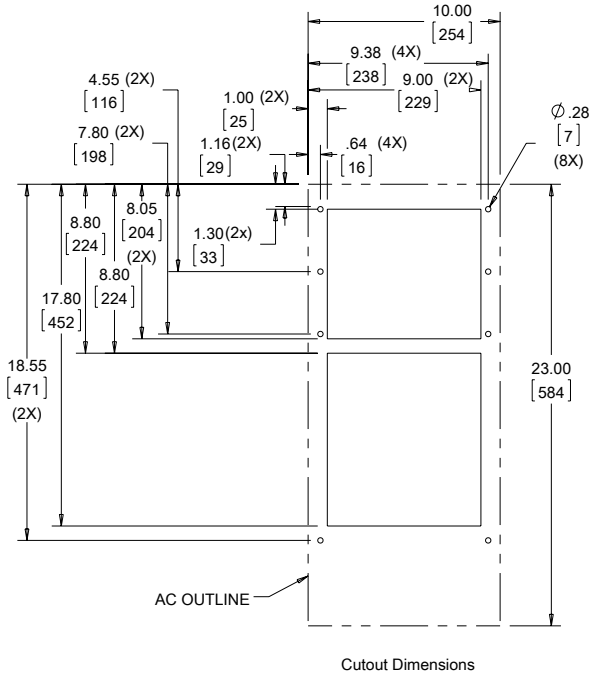
CATALOG NUMBER			
Indoor Model	CR230216G002	CR230226G002	CR230246G400
Indoor Level 2 Controller	CR230216G016	—	—
Outdoor Type 3R	CR230216G013	CR230226G030	—
Outdoor/SST/Corrosion Type 3R	CR230216G007	CR230226G009	—
Outdoor/SST/Level 2 Type 3R	CR230216G017	CR230226G016	—
Indoor/Outdoor/SST/Corrosion Type 4X	CR230216G015	CR230226G014	CR230226G037
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**1400/1600**	**1400/1600**	**1400/1600**
Watts	**410/469**	**410/469**	**410/469**
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	10/284	10/284	10/284
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C) (Low Ambient Pkg)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / m^3/hr.)	117/199	117/199	117/199
External loop 50 Hz (CFM / m^3/hr.)	86/146	86/146	86/146
Internal loop 60 Hz (CFM / m^3/hr.)	130/221	130/221	130/221
External loop 60 Hz (CFM / m^3/hr.)	95/161	95/161	95/161
ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	471.5/517.5	506	552
Max. Nominal Current (A at 50/60 Hz)	4.1/4.0	2.7/2.5	1.4/1.3
Starting Current (A)	18	13.2	7.7
Agency Approvals	UL/cUL Listed CE EAC		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION			
UL Type	Type 12, 3R standard Type 4, 4X Stainless steel optional		
CONTROLLER			
Description	Basic mechanical thermostat		
Thermostat Location	Behind cover		
Factory Thermostat Setting (°F/°C)	80/27		
SOUND LEVEL			
At 1.5 Meters	62 dB(A)		
UNIT CONSTRUCTION			
Material	Mild steel sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS			
Height (in./mm)	23/584		23/584
Width (in./mm)	10/254		10/254
Depth (in./mm)	8.75/222		8.75/222
Weight (lb./kg)	57/26		67/30



CR23 Models 1600 BTU/Hr. (469 Watt)







Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]

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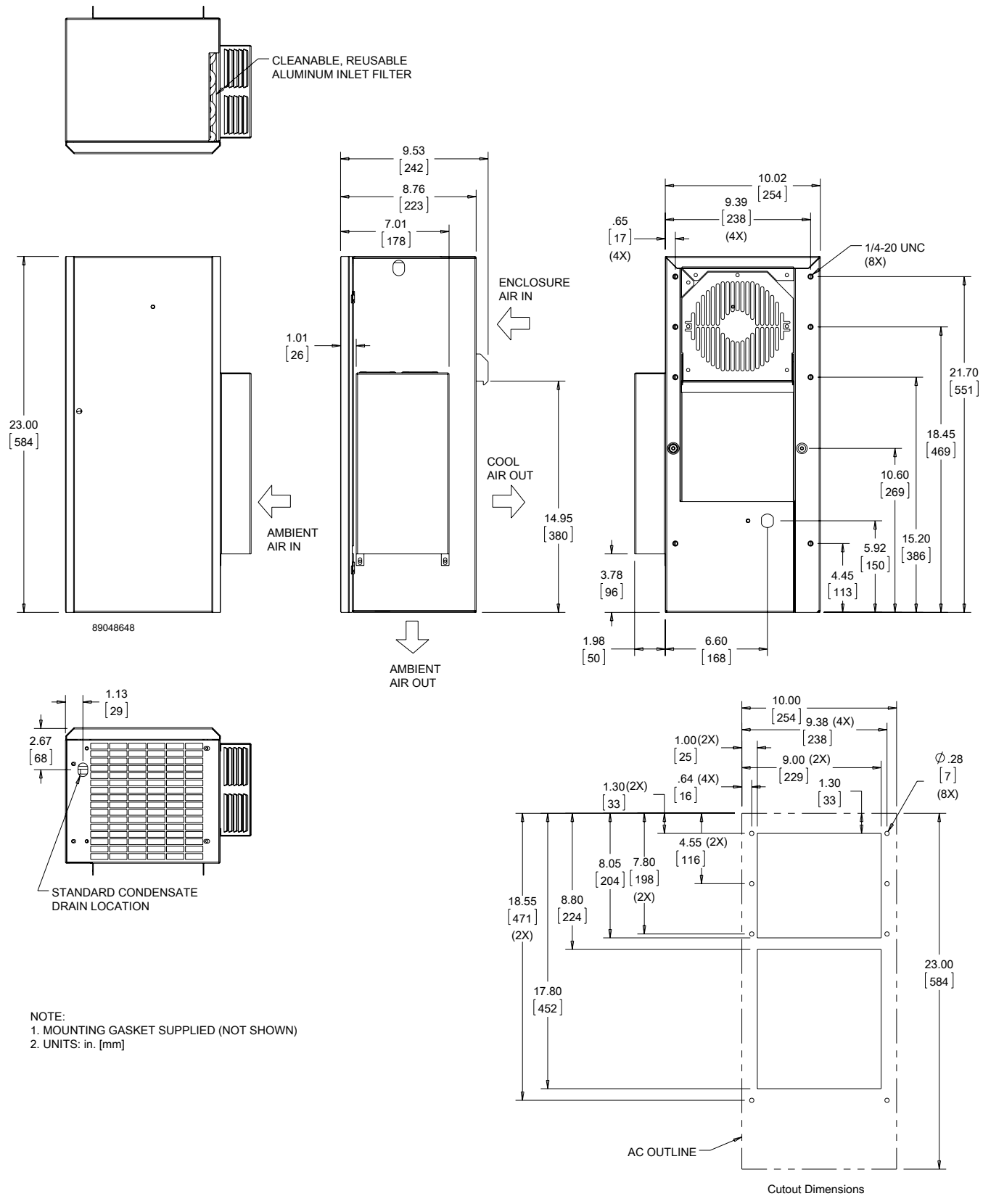
CR23 Models 1600 BTU/Hr. (469 Watt) With Type 4X Hood



Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]

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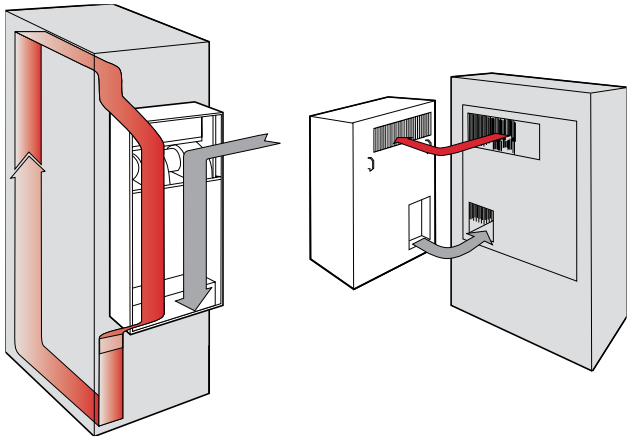
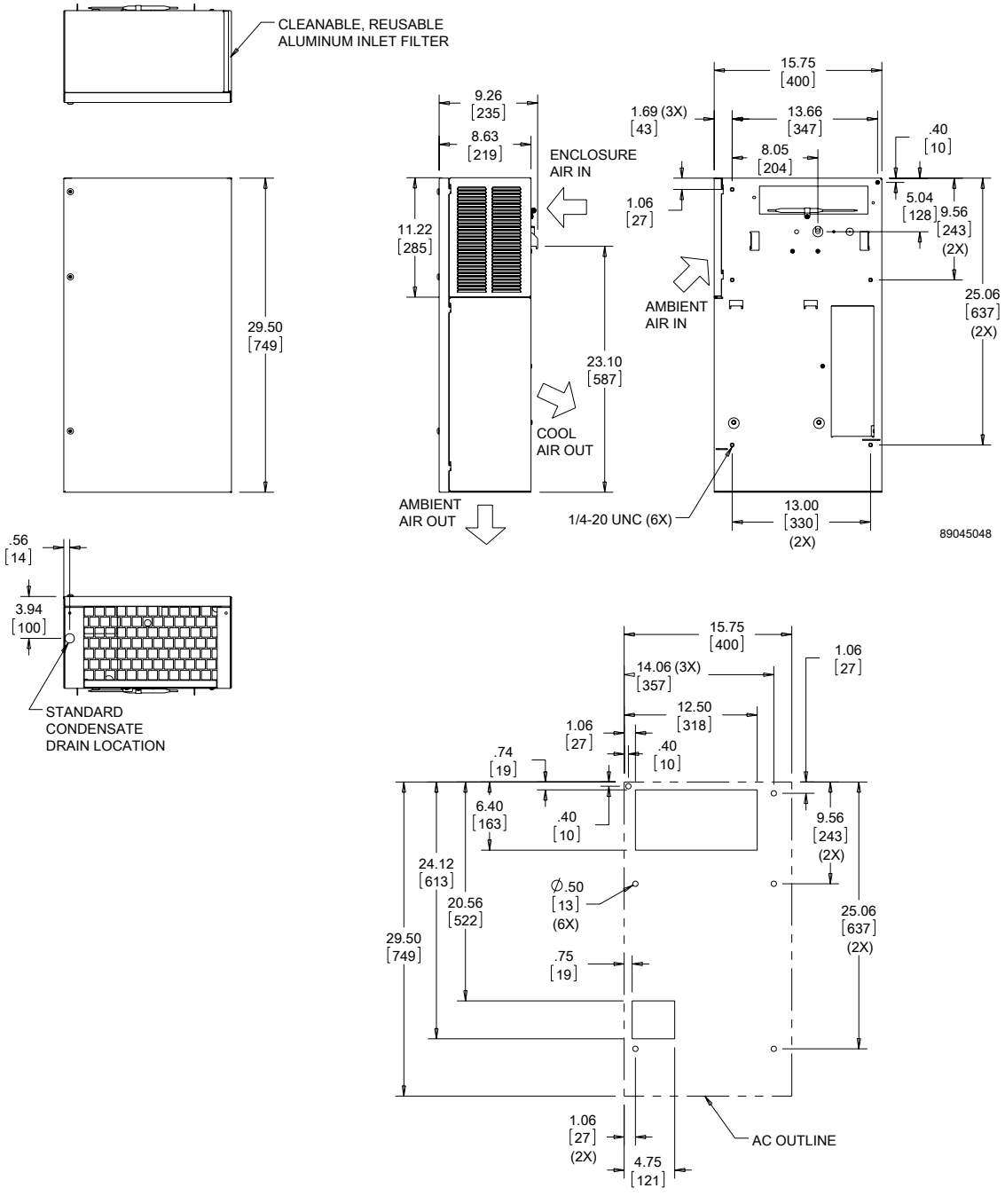
Performance Data **CR29 Models 2700/4000 BTU/Hr. (791/1172 Watt)**

CATALOG NUMBER						
Indoor Model	CR290216G002	CR290226G002	CR290246G400	CR290416G002	CR290426G002	CR290446G400
Indoor Level 2 Controller	CR290216G030	CR290226G030	CR290226G041	CR290416G047	CR290426G027	—
Outdoor Type 3R	CR290216G035	CR290226G020	—	CR290416G045	CR290426G022	—
Outdoor/SST/Corrosion Type 3R	CR290216G013	CR290226G010	CR290246G401	CR290416G030	CR290426G017	—
Outdoor/SST/Level 2 Type 3R	—	—	CR290226G058	CR290416G052	—	CR290426G101
Indoor/Outdoor/SST/Corrosion Type 4X	CR290216G036	CR290226G037	CR290226G045	CR290416G068	CR290426G054	CR290426G061
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**2600/3000**	**2600/2700**	**2600/2700**	**3500/4000**	**3500/4000**	**3500/4000**
Watts	**761/879**	**761/791**	**761/791**	**1025/1172**	**1025/1172**	**1026/1172**
Refrigerant	R-134A	R-134A	R-134A	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	11/312	11/312	11/312	11/312	11/312	11/312
Operating Temperature Range:						
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55
Minimum (°F/°C) (Low Ambient Pkg)	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	141/239	141/239	141/239	141/239	141/239	141/239
External loop 50 Hz (CFM / m^3/hr.)	235/399	235/399	235/399	235/399	235/399	235/399
Internal loop 60 Hz (CFM / m^3/hr.)	157/266	157/266	157/266	157/266	157/266	157/266
External loop 60 Hz (CFM / m^3/hr.)	261/443	261/443	261/443	261/443	261/443	261/443
ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**460V 1PH**	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1058/897	851/828	920/874	1116/1253	1081/1127	1104/1150
Max. Nominal Current (A at 50/60 Hz)	9.2/7.8	3.7/3.6	2.0/1.9	12.7/12.1	4.7/4.9	2.4/2.5
Starting Current (A)	31.5	15	7.7	44.5	18	9
Agency Approvals	UL/cUL Listed CE EAC		cUR Recognized CE EAC	UL/cUL Listed CE EAC		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R standard Type 4, 4X Stainless steel optional			Type 12, 3R standard 4, 4X Stainless steel optional		
CONTROLLER						
Description	Basic mechanical thermostat			Basic mechanical thermostat		
Thermostat Location	Behind cover			Behind cover		
Factory Thermostat Setting (°F/°C)	80/27			80/27		
SOUND LEVEL						
At 1.5 Meters	68 dB(A)			68 dB(A)		
UNIT CONSTRUCTION						
Material	Mild steel sheet metal standard Stainless steel optional			Mild steel sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard			RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS						
Height (in./mm)	29.5/749			29.5/749		
Width (in./mm)	15.75/400			15.75/400		
Depth (in./mm)	8.63/219			8.63/219		
Weight (lb./kg)	98/44	98/44	108/49	118/54	118/54	128/58



CR29 Models 2700/4000 BTU/Hr. (791/1172 Watt)

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions

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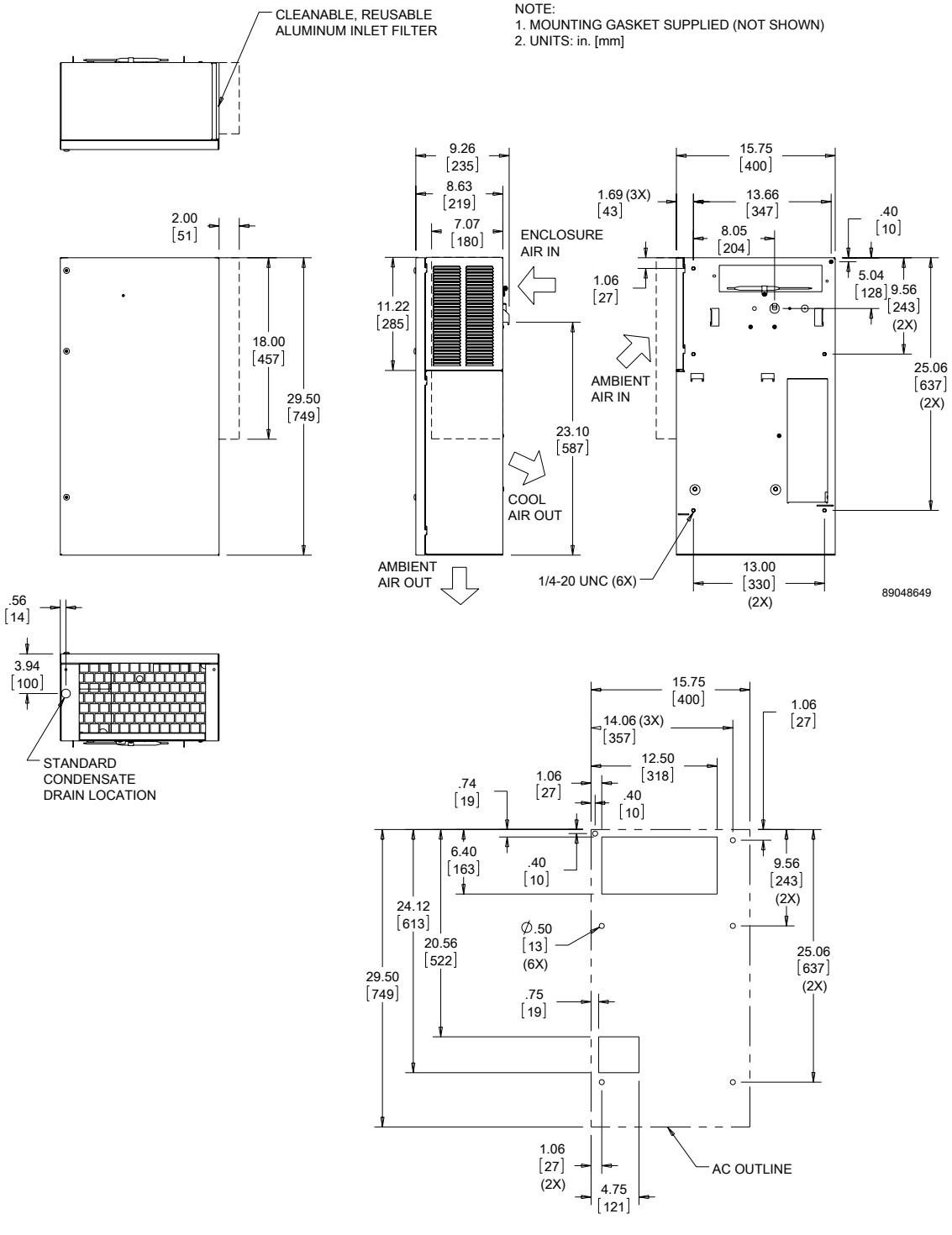
CR29 Models 2700/4000 BTU/Hr. (791/1172 Watt) With Type 4X Hood



Cutout Dimensions

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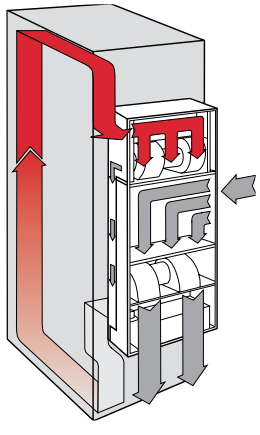
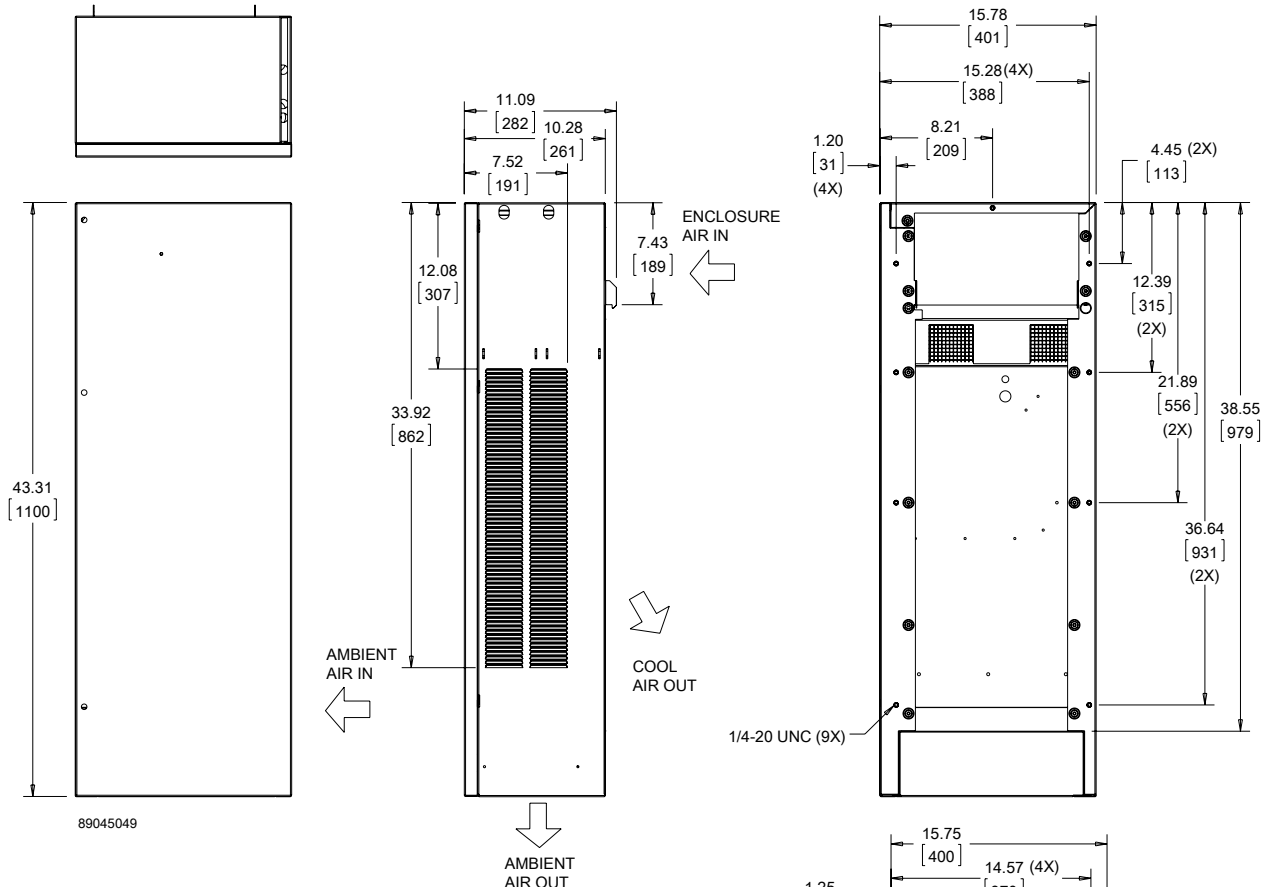
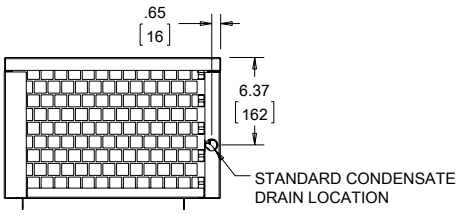
Performance Data **CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt)**

CATALOG NUMBER						
Indoor Model	CR430616G002	CR430626G002	CR430646G004	CR430816G002	CR430826G002	CR430826G089
Indoor Level 2 Controller	CR430616G016	CR430626G018	CR430626G030	CR430816G021	CR430826G026	—
Outdoor Type 3R	CR430616G013	CR430626G014	—	CR430816G038	CR430826G007	—
Outdoor/SST/Corrosion Type 3R	CR430616G004	—	—	CR430816G010	CR430826G037	—
Outdoor/SST/Level 2 Type 3R	—	CR430626G020	—	CR430816G023	CR430826G024	—
Indoor/Outdoor/SST/Corrosion Type 4X	CR430616G031	CR430626G034	CR430626G074	CR430816G036	CR430826G038	CR430846G401
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	**5500/6000**	**5500/6000**	**5500/6000**	**7100/8000**	**7100/8000**	**7100/8000**
Watts	1611/1758	**1611/1758**	**1611/1758**	**2080/2344**	**2080/2344**	**2080/2344**
Refrigerant	R-134A	R-134A	R-134A	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	19/538	19/538	19/538	19/538	19/538	19/538
Operating Temperature Range:						
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55
Minimum (°F/°C) (Low Ambient Pkg.)	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	320/543	226/384	226/384	320/543	226/384	226/384
External loop 50 Hz (CFM / m^3/hr.)	480/815	470/798	470/798	480/815	470/798	470/798
Internal loop 60 Hz (CFM / m^3/hr.)	368/625	255/433	255/433	368/625	255/433	255/433
External loop 60 Hz (CFM / m^3/hr.)	544/924	540/917	540/917	544/924	540/917	540/917
ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**460V 1PH**	**115**	**230**	**460V 1PH**
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	1460	1403/1518	1564/1656	1460	1403/1518	1564/1656
Max. Nominal Current (A at 50/60 Hz)	12.7	6.1/6.6	3.4/3.6	12.7	6.1/6.6	3.4/3.6
Starting Current (A)	48.3	27	14	48.3	27	14
Agency Approvals	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC	UL/cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads	6-ft. cord with NEMA 5-20 plug	6-ft. cord with NEMA 6-15 plug	6-ft. cord with wire leads
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R standard Type 4, 4X Stainless steel optional			Type 12, 3R standard 4, 4X Stainless steel optional		
CONTROLLER						
Description	Basic mechanical thermostat			Basic mechanical thermostat		
Thermostat Location	Enclosure side on all base models			Enclosure side on all base models		
Factory Thermostat Setting (°F/°C)	80/27			80/27		
SOUND LEVEL						
At 1.5 Meters	71 dB(A)			71 dB(A)		
UNIT CONSTRUCTION						
Material	Galvanized sheet metal standard Stainless steel optional			Galvanized sheet metal standard Stainless steel optional		
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard			RAL 7035 light-gray, semi-textured powder-coat paint standard		
UNIT DIMENSIONS						
Height (in./mm)	43.31/1100			43.31/1100		
Width (in./mm)	15.75/400			15.75/400		
Depth (in./mm)	10.25/260			10.25/260		
Weight (lb./kg)	125/57	125/57	155/70	125/57	125/57	155/70

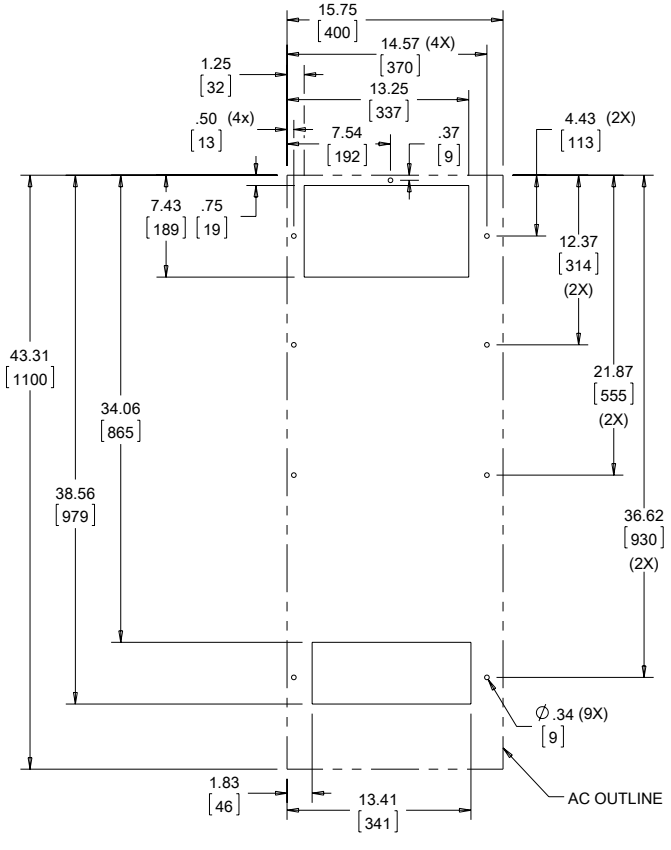


CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt)





NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions

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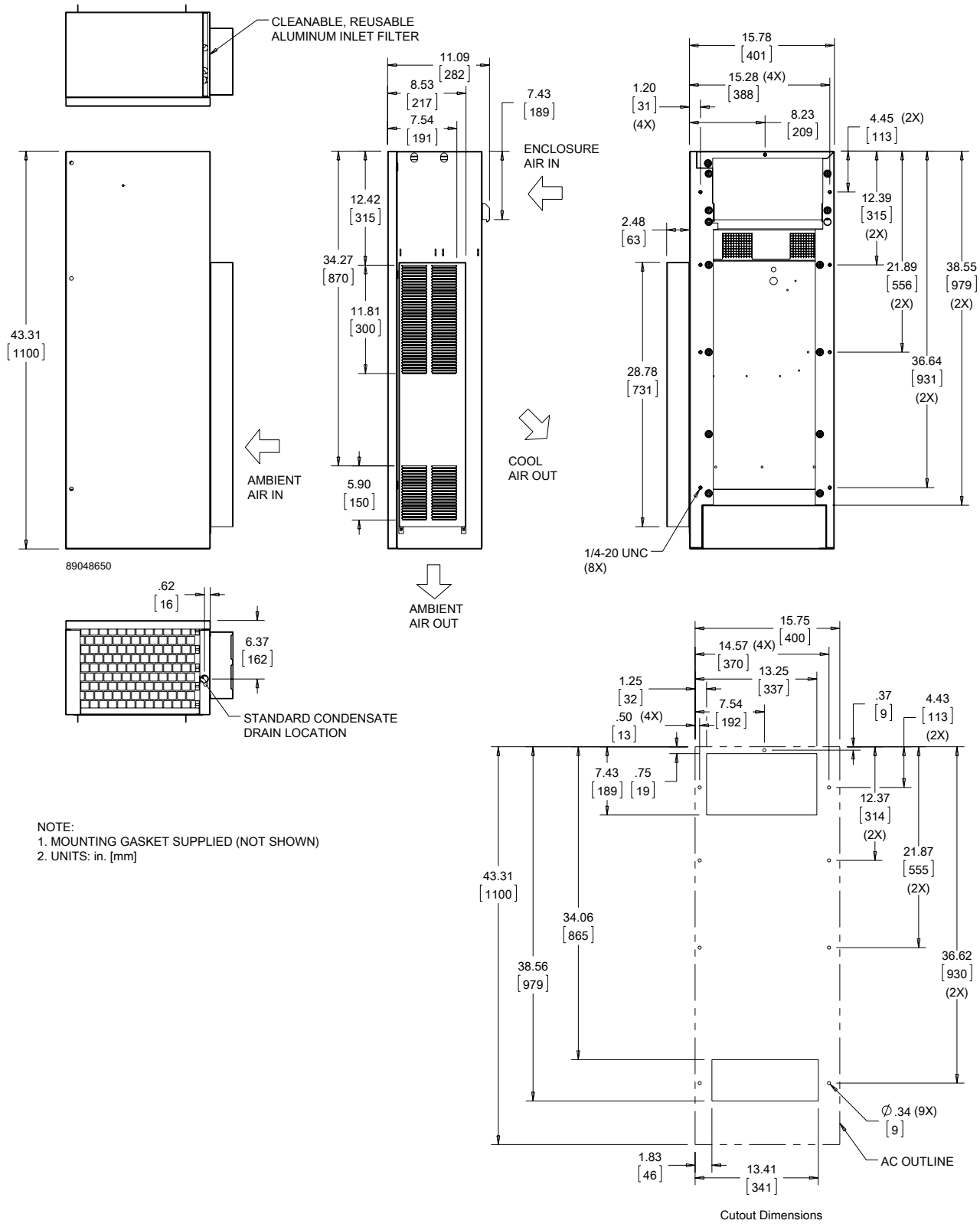
CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt) With Type 4X Hood



Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]

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WATER-COOLED INDOOR/OUTDOOR

CR43WC
8000 BTU/Hr.
2345 Watt

FEATURES

- Robust reciprocating compressor
- R134a earth-friendly refrigerant
- Models for 115 and 230 VAC power input
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from 50 F/10 C to 125 F/52 C
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat located behind the front panel of the unit
- Low-carbon mild-steel sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Heat is removed from the system by means of the water cooling the refrigerant; no external air movers or condenser coils to get clogged
- Maximum water usage of 2 GPM at 90 F water intake temperature
- Standard Indoor Air Conditioner models also include:
  - Electro-Mechanical Thermostat
  - Surge Suppressor

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Stainless steel Type 304 or 316 finishes available on Type 4X models
- Other colors and textures available

OPTIONS

- Thermostat Malfunction Package
- Special Voltage Package
- Active Condensate Evaporator Package
- Harsh Environment Package*
- Stainless Steel Package*

* Consult the factory for availability and catalog number.

NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

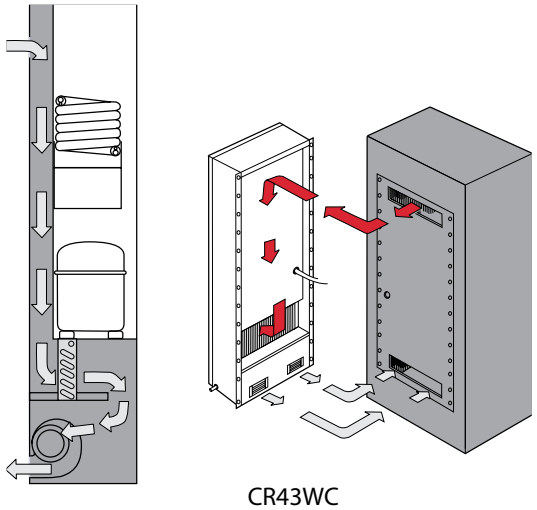
INDUSTRY STANDARDS

UL/cUL Listed; Type 4; 4X optional; File No. SA6453 UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC

APPLICATION

- Industrial automation
- Package handling equipment
- Food and beverage
- Wastewater treatment
- Security and defense systems
- Pulp and paper
- And more

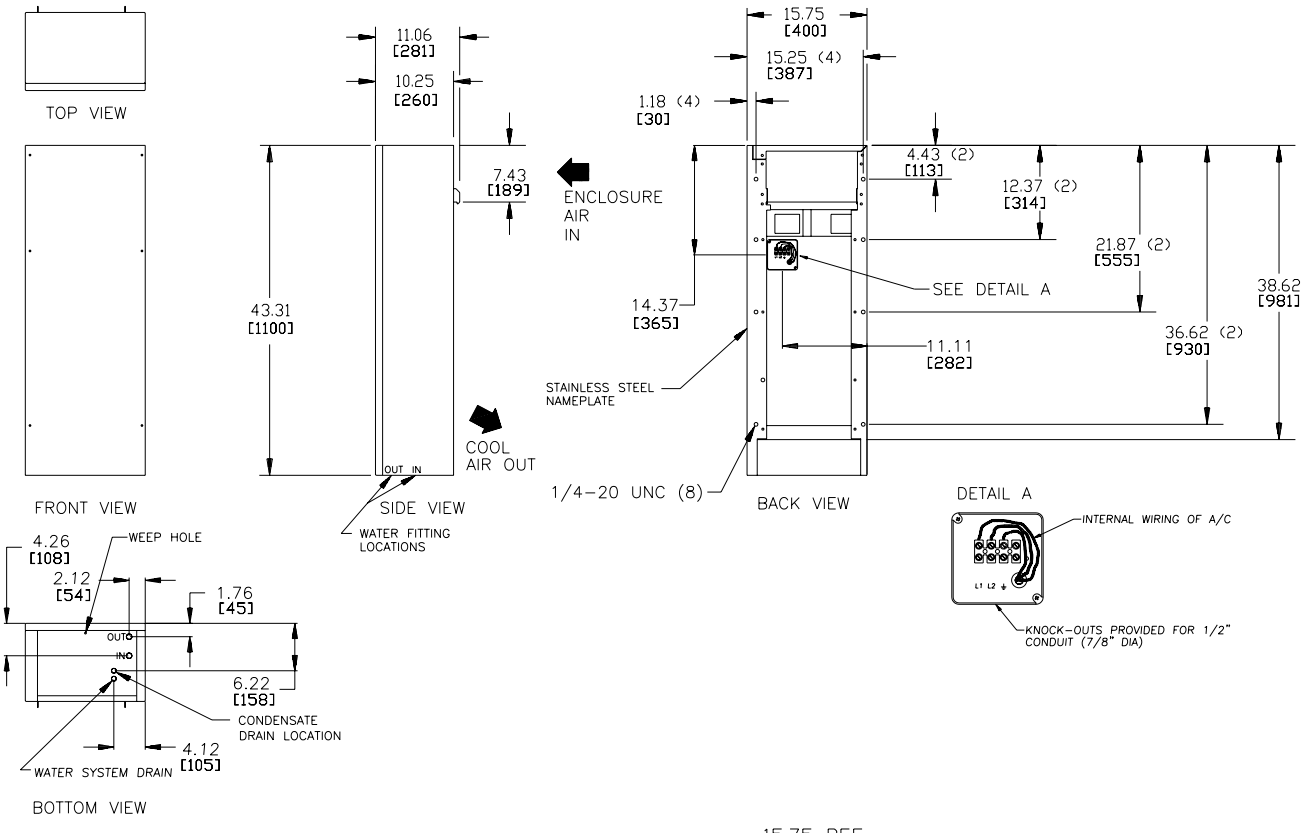


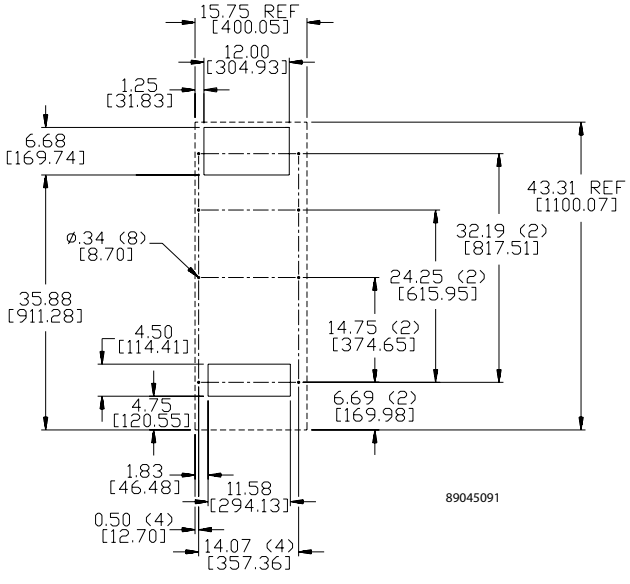
CR43WC

Performance Data **CR43WC Models 8000 BTU/Hr. (2345 Watt)**

CATALOG NUMBER		
Indoor/Outdoor Model	CR430816GW010	CR430826GW010
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**8500**	**8500**
Watts	**2490**	**2490**
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	12/341	12/341
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Minimum (°F/°C)	50/10	50/10
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	135/229	100/170
External loop 50 Hz	Waterflow: 1.5 GPM @ 90F	Waterflow: 1.5 GPM @ 90F
Internal loop 60 Hz (CFM / m^3/hr.)	145/246	110/187
External loop 60 Hz	Waterflow: 1.5 GPM @ 90F	Waterflow: 1.5 GPM @ 90F
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50 / 60 Hz)	1518/1495	1518/1495
Max. Nominal Current (A at 50 / 60 Hz)	13.2/13	6.6/6.5
Starting Current (A)	48.3	27
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 4 standard Type 4X Stainless steel optional	
CONTROLLER		
Description	Basic mechanical thermostat	
Thermostat Location	Behind front cover	
Factory Thermostat Setting (°F/°C)	80/27	
SOUND LEVEL		
At 1.5 Meters	61 dB(A)	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	43.31/1100	
Width (in./mm)	15.75/400	
Depth (in./mm)	10.25/260.4	
Weight (lb./kg)	86/39	

CR43WC Models 8000 BTU/Hr. (2345 Watt)





Cutout Dimensions

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Notes

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CLIMAGUARD AIR-TO-AIR INDOOR

XR20
Models
4 W/°F (7 W/°C)

XR29-08
Models
8 W/°F (14 W/°C)

XR29-18
Models
18 W/°F (32 W/°C)

XR47-24
Models
24 W/°F (43 W/°C)

XR47-35
Models
35 W/°F (63 W/°C)

XR60-55
Models
55 W/°F (99 W/°C)

XR60-84
Models
84 W/°F (151 W/°C)

INDUSTRY STANDARDS

UL/cUL Listed; Type 12; File No. SA7402
UR/cUR Recognized

Type 12 on XR20 and XR29-08 models
Type 3R on XR29-18 and larger models when surface mounted vertically on an enclosure
CE
EAC

APPLICATION

- Industrial automation
- Package handling equipment
- Security and defense systems
- And more

FEATURES

- Unique counterflow aluminum core for high-efficiency and high-performance heat transfer, except for the XR20 and XR29-08 which use a modified heat pipe core
- Models for 115 and 230 VAC power input
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from -20 F/-29 C to 140 F/60 C
- Streamlined aesthetics with no visible mounting rails; Slim design allows for mounting to narrow or shallow enclosures
- Reliable top-quality bearing fans and impellers make these units run quietly and with increased reliability
- Low-carbon mild-steel sheet-metal cover for rugged factory environments
- Easy-mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Filterless design for low maintenance and easy cleaning
- Four fasteners allow simple removal of front cover for easy access

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Stainless steel Type 304 or 316 finishes available
- Other colors and textures available

OPTIONS

- Special Voltage Package
- Outdoor Package*
- Stainless Steel Package*

* CLIMAGUARD may be more appropriate. Refer to CLIMAGUARD Air-to-Air Outdoor chapter. Consult the factory for availability and catalog number.

NOTES

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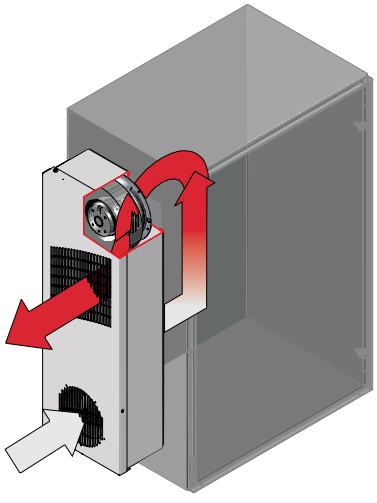
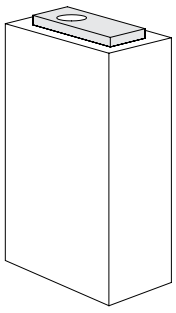


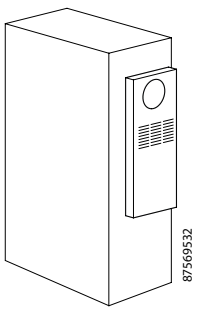
Performance Data **XR20 Models 4 W/°F (7 W/°C)**

CATALOG NUMBER	XR200416012	XR200426012
COOLING PERFORMANCE		
Nominal:		
W per °F	**4**	**4**
W per °C	**7**	**7**
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	4/113	4/113
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	71/121	71/121
External loop 50 Hz (CFM / m^3/hr.)	75/127	75/127
Internal loop 60 Hz (CFM / m^3/hr.)	74/126	74/126
External loop 60 Hz (CFM / m^3/hr.)	78/132	78/132
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	69	69
Max. Nominal Current (A at 50/60 Hz)	0.6	0.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	Terminal Block	Terminal Block
ENCLOSURE PROTECTION		
UL Type	Type 12 standard	
SOUND LEVEL		
At 1.5 Meters	56 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	20/508	20/508
Width (in./mm)	7.5/190.5	7.5/190.5
Depth (in./mm)	3/76.2	3/76.2
Weight (lb./kg)	12/5.4	12/5.4

Mounting Options

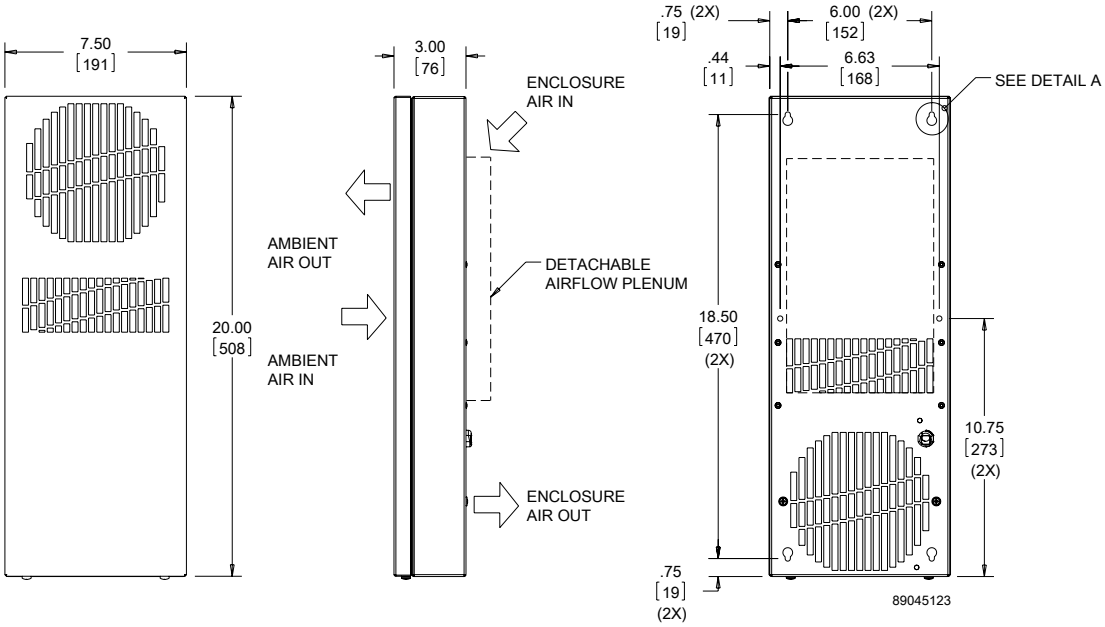


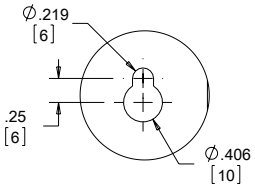
External
Top-Mount



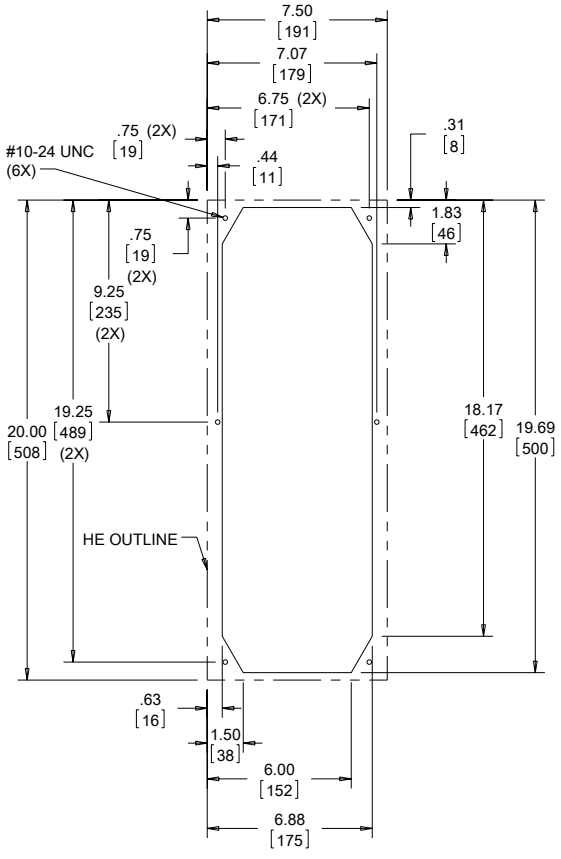
External
Vertical-Mount

XR20 Models 4 W/°F (7 W/°C)





DETAIL A
(4X)



Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in [mm]

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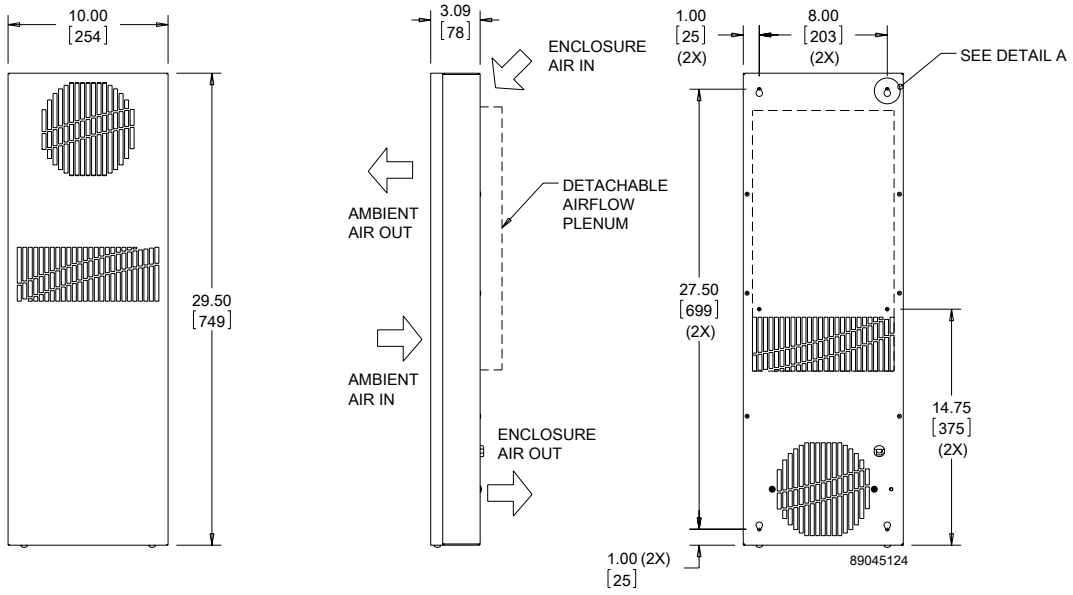
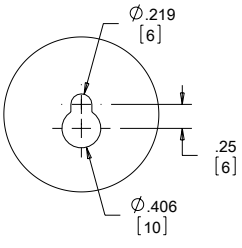
Performance Data **XR29 Models 8 W/°F (14 W/°C)**

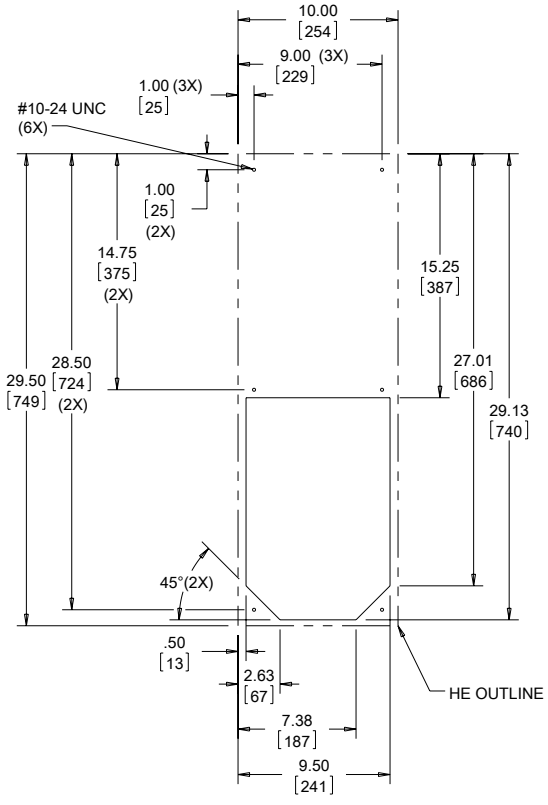
CATALOG NUMBER	XR290816012	XR290826012
COOLING PERFORMANCE		
Nominal:		
W per °F	**8**	**8**
W per °C	**14**	**14**
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	5.5/156	5.5/156
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	71/121	71/121
External loop 50 Hz (CFM / m^3/hr.)	75/127	75/127
Internal loop 60 Hz (CFM / m^3/hr.)	74/126	74/126
External loop 60 Hz (CFM / m^3/hr.)	78/132	78/132
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	69	69
Max. Nominal Current (A at 50/60 Hz)	0.6	0.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	Terminal Block	Terminal Block
ENCLOSURE PROTECTION		
UL Type	Type 12 standard	
SOUND LEVEL		
At 1.5 Meters	56 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	29.5/749.3	29.5/749.3
Width (in./mm)	10/254	10/254
Depth (in./mm)	3.09/78.5	3.09/78.5
Weight (lb./kg)	21/9.5	21/9.5

XR29 Models 8 W/°F (14 W/°C)





DETAIL A
(4X)



Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in [mm]

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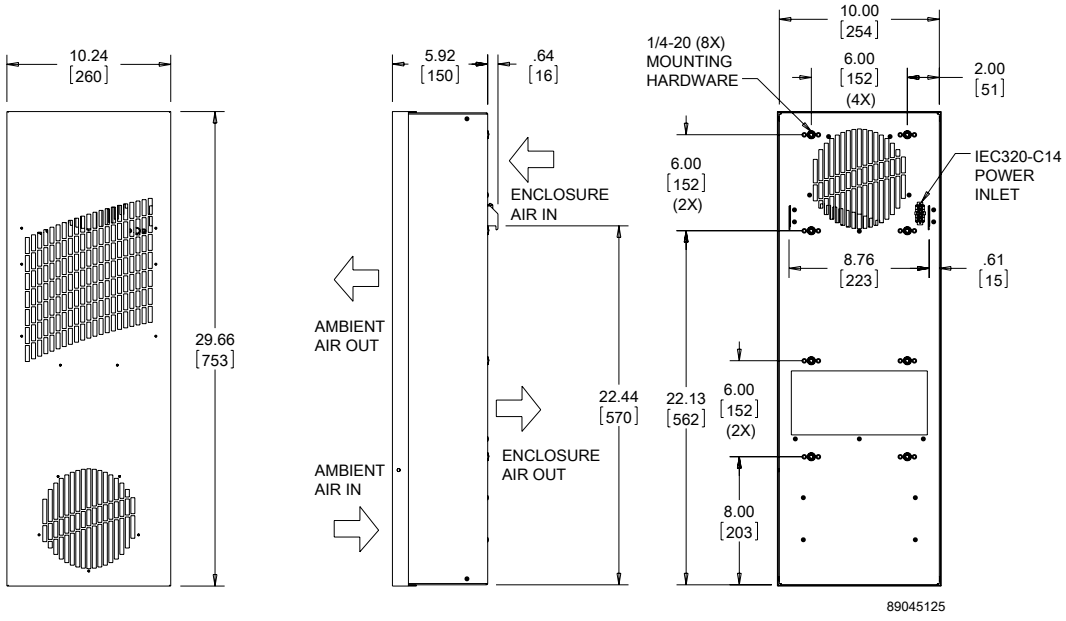
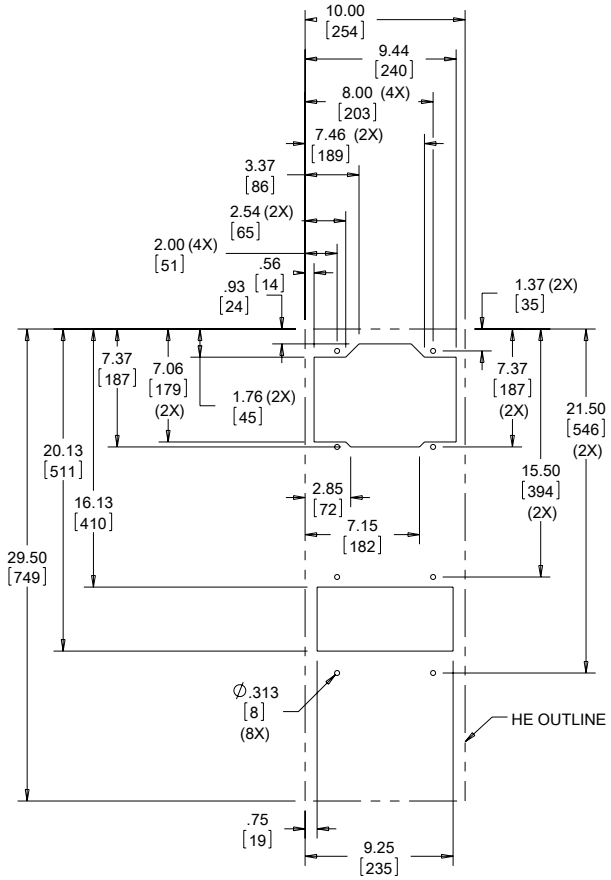
Performance Data **XR29 Models 18 W/°F (32 W/°C)**

CATALOG NUMBER	XR291816012	XR291826012
COOLING PERFORMANCE		
Nominal:		
W per °F	**18**	**18**
W per °C	**32**	**32**
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	126/214	126/214
External loop 50 Hz (CFM / m^3/hr.)	120/204	120/204
Internal loop 60 Hz (CFM / m^3/hr.)	140/237	140/237
External loop 60 Hz (CFM / m^3/hr.)	133/226	133/226
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
SOUND LEVEL		
At 1.5 Meters	64 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	29.66/753.3	29.66/753.3
Width (in./mm)	10.24/260.1	10.24/260.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	32/15	32/15

XR29 Models 18 W/°F (32 W/°C)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions

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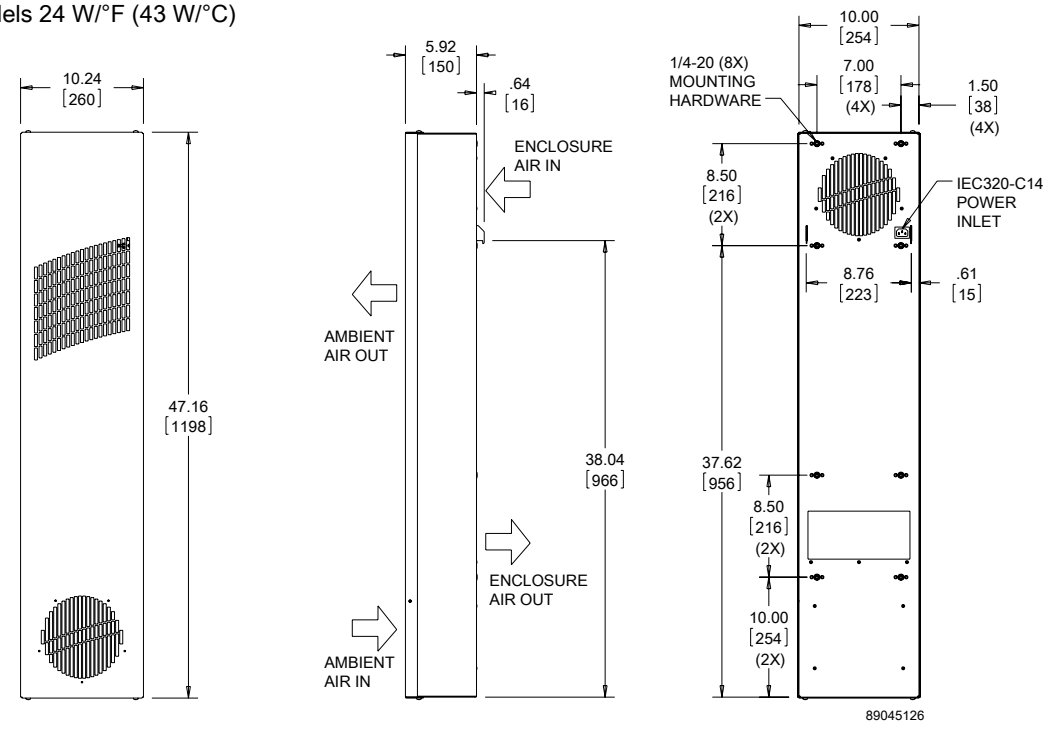
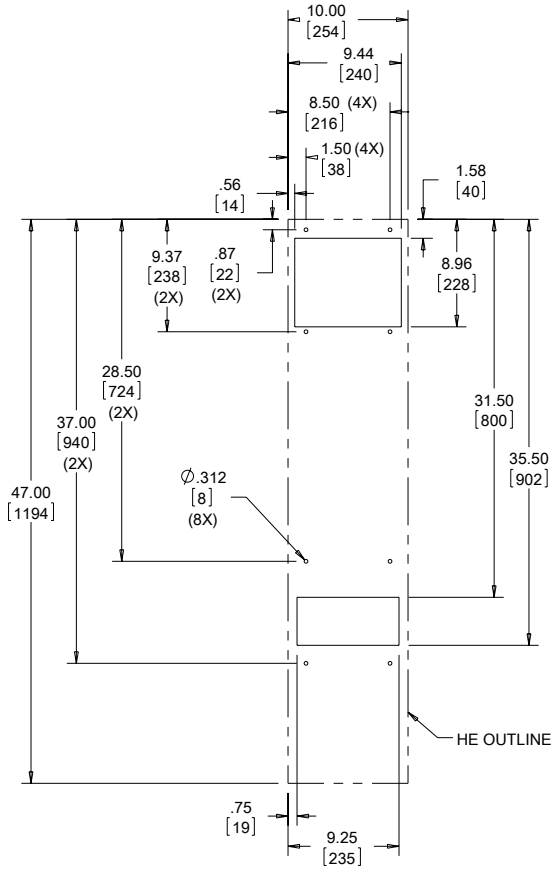
Performance Data **XR47 Models 24 W/°F (43 W/°C)**

CATALOG NUMBER	XR472416012	XR472426012
COOLING PERFORMANCE		
Nominal:		
W per °F	**24**	**24**
W per °C	**43**	**43**
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	140/238	140/238
External loop 50 Hz (CFM / m^3/hr.)	118/200	118/200
Internal loop 60 Hz (CFM / m^3/hr.)	156/265	156/265
External loop 60 Hz (CFM / m^3/hr.)	131/222	131/222
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
SOUND LEVEL		
At 1.5 Meters	68 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	47.16/1197.9	47.16/1197.9
Width (in./mm)	10.24/260.1	10.24/260.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	51/23	51/23

XR47 Models 24 W/°F (43 W/°C)





Cutout Dimensions

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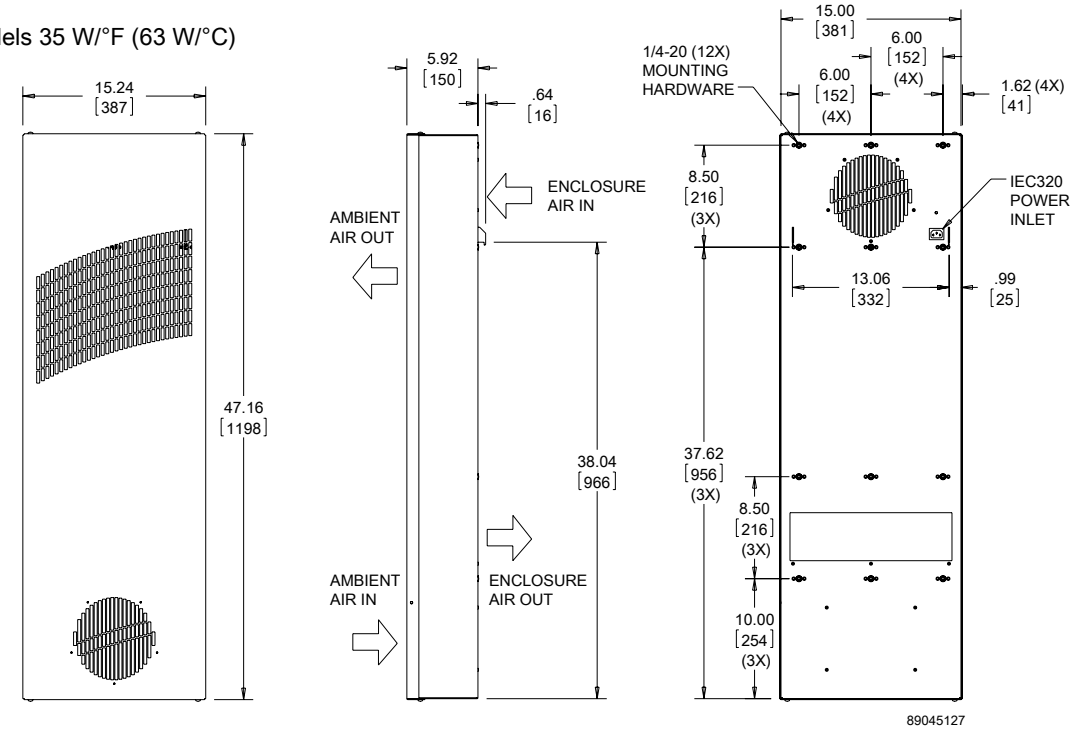
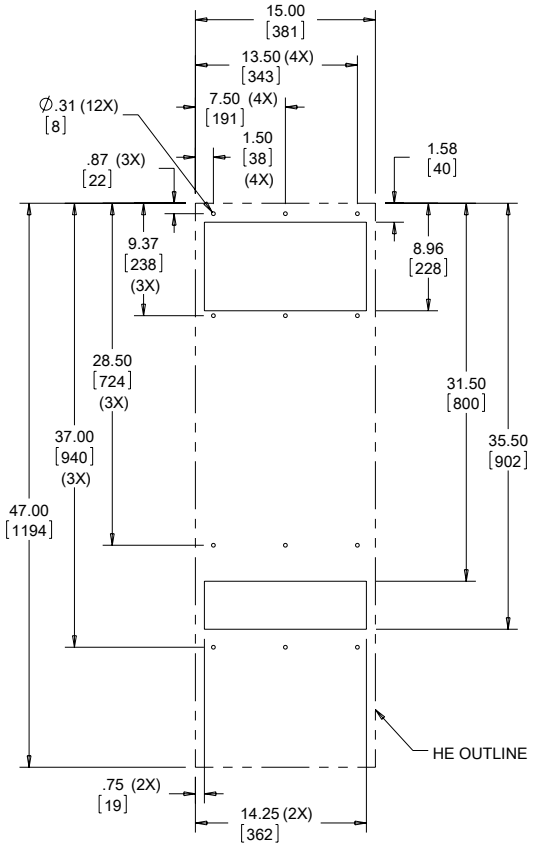
Performance Data **XR47 Models 35 W/°F (63 W/°C)**

CATALOG NUMBER	XR473516012	XR473526012
COOLING PERFORMANCE		
Nominal:		
W per °F	**35**	**35**
W per °C	**63**	**63**
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	120/204	120/204
External loop 50 Hz (CFM / m^3/hr.)	131/222	131/222
Internal loop 60 Hz (CFM / m^3/hr.)	133/226	133/226
External loop 60 Hz (CFM / m^3/hr.)	146/248	146/248
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
SOUND LEVEL		
At 1.5 Meters	68 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	47.16/1197.8	47.16/1197.8
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	59/27	59/27

XR47 Models 35 W/°F (63 W/°C)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in [mm]
3. 2-METER LONG SERVICE CORD TERMINATED WITH APPROPRIATE PLUG:
   NEMA 5-15P FOR 115V UNITS
   NEMA 6-15P FOR 230V UNITS



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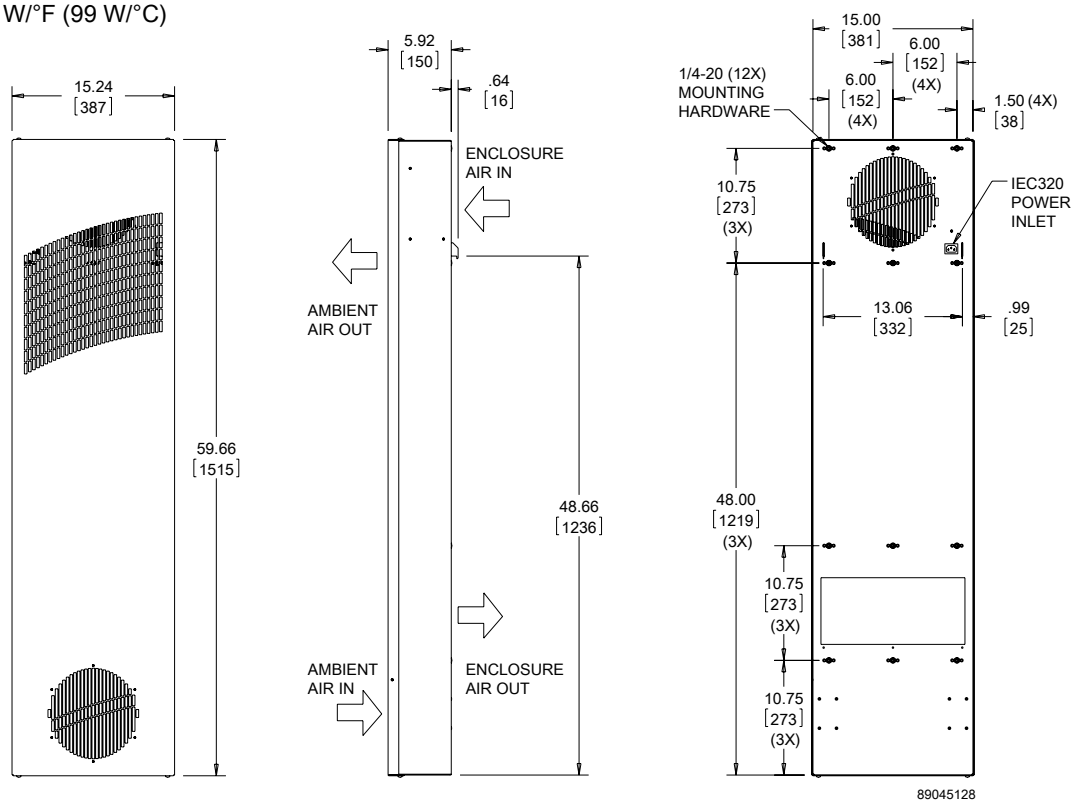
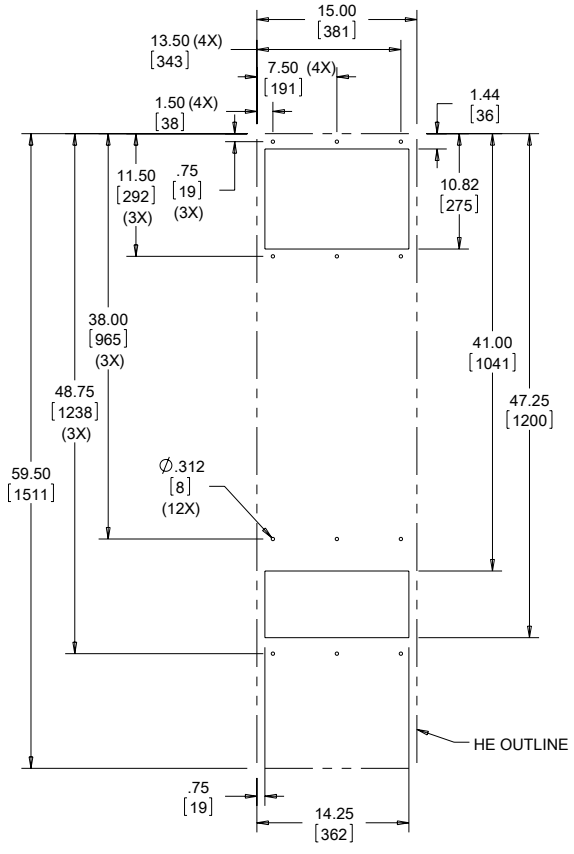
Performance Data **XR60 Models 55 W/°F (99 W/°C)**

CATALOG NUMBER	XR605516012	XR605526012
COOLING PERFORMANCE		
Nominal:		
W per °F	**55**	**55**
W per °C	**99**	**99**
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	398/676	398/676
External loop 50 Hz (CFM / m^3/hr.)	429/729	429/729
Internal loop 60 Hz (CFM / m^3/hr.)	442/751	442/751
External loop 60 Hz (CFM / m^3/hr.)	477/810	477/810
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	759	759
Max. Nominal Current (A at 50/60 Hz)	6.6	3.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
SOUND LEVEL		
At 1.5 Meters	73 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	59.66/1515.3	59.66/1515.3
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	86/39	86/39

XR60 Models 55 W/°F (99 W/°C)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in [mm]
3. 2-METER LONG SERVICE CORD SUPPLIED WITH APPROPRIATE PLUG:
   NEMA 5-15P FOR 115V UNITS
   NEMA 6-15P FOR 230V UNITS



Cutout Dimensions

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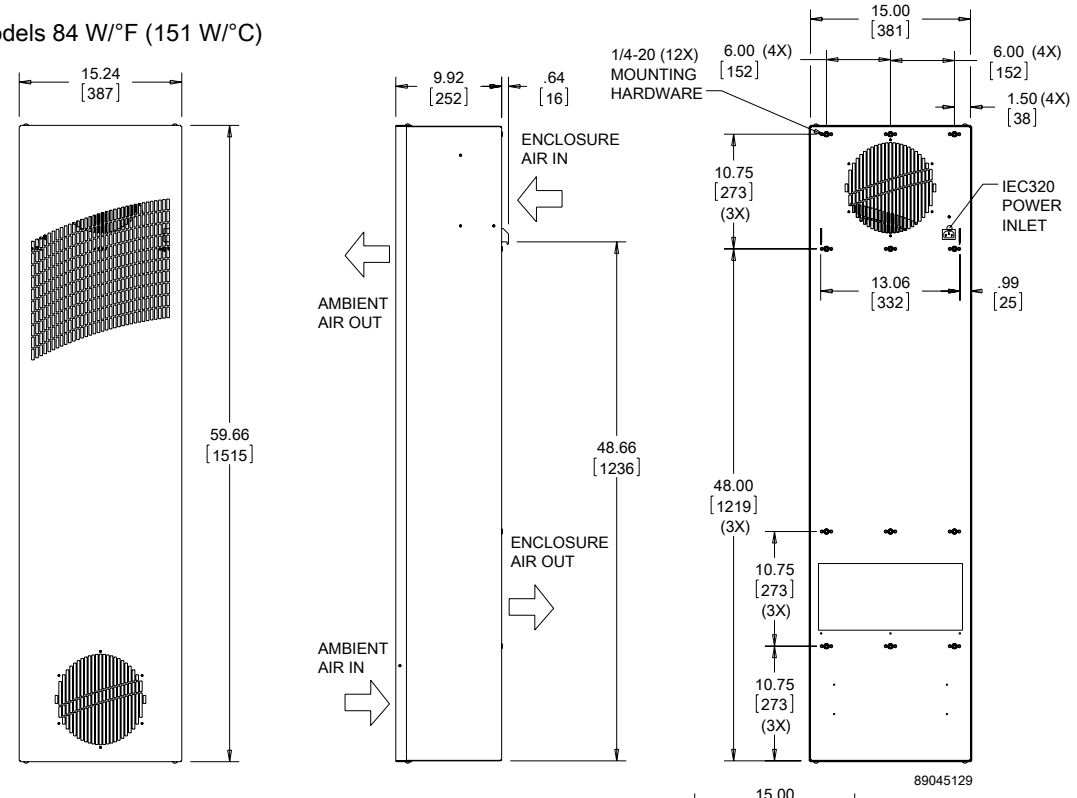
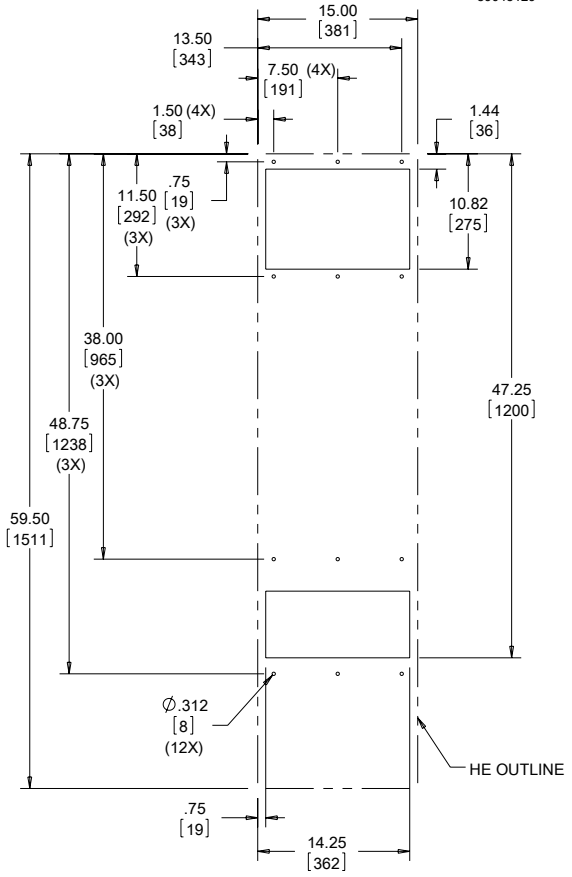
Performance Data **XR60 Models 84 W/°F (151 W/°C)**

CATALOG NUMBER	XR608416012	XR608426012
COOLING PERFORMANCE		
Nominal:		
W per °F	**84**	**84**
W per °C	**151**	**151**
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m^3/hr.)	497/844	497/844
External loop 50 Hz (CFM / m^3/hr.)	434/737	434/737
Internal loop 60 Hz (CFM / m^3/hr.)	552/938	552/938
External loop 60 Hz (CFM / m^3/hr.)	482/819	482/819
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	759	759
Max. Nominal Current (A at 50/60 Hz)	6.6	3.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
SOUND LEVEL		
At 1.5 Meters	73 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	59.66/1515.3	59.66/1515.3
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	9.92/252	9.92/252
Weight (lb./kg)	106/48	106/48

XR60 Models 84 W/°F (151 W/°C)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in [mm]
3. 2-METER LONG SERVICE CORD SUPPLIED
   WITH APPROPRIATE PLUG:
   NEMA 5-15P FOR 115V UNITS
   NEMA 6-15P FOR 230V UNITS



Cutout Dimensions

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Notes

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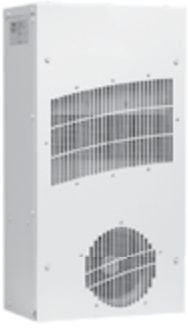
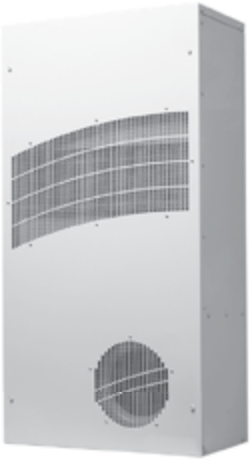
CLIMAGUARD AIR-TO-AIR OUTDOOR

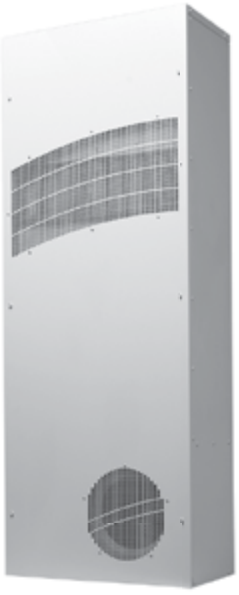


TX23
Models
14 W/°F (25 W/°C)

TX33
Models
28 W/°F (50 W/°C)



TX38
Models
56 W/°F (100 W/°C)



TX52
Models
83 W/°F (150 W/°C)

INDUSTRY STANDARDS

UL/cUL Listed; Type 12, 4; 4X optional; File No. SA7402 UR/cUR Recognized

UR/cUR Recognized on select models, reference performance data tables.
CE
EAC
Telcordia GR-487 capable

APPLICATION

- Telecom shelters
- Outdoor cabinets
- Equipment buildings
- Instrument enclosures
- And more

FEATURES

- Unique counterflow aluminum core for high efficiency and high performance heat transfer
- Models for 24 VDC, 48 VDC, 115 VAC and 230 VAC power supplies
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from -40 F/-40 C to 149 F/65 C
- Variable speed blowers standard on DC powered units for quiet running
- Surface or recessed mount capable
- Low-carbon mild-steel sheet-metal cover for rugged factory environments
- Easy-mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Filterless design for low maintenance and easy cleaning
- Engineered for temperature extremes, corrosive environments and wind driven rain

FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Stainless steel Type 304 or 316 finishes available on Type 4X models
- Other colors and textures available

OPTIONS

- Thermostat Package
- Special Voltage Package
- Outdoor Package
- Harsh Environment Package*
- Stainless Steel Package*
- Heater Package*

* Consult the factory for availability and catalog number.

NOTES

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Performance Data **TX23 Models 14 W/°F (25 W/°C)**

CATALOG NUMBER	TX231416100	TX231426100	TX231424100	TX231448100
COOLING PERFORMANCE				
Nominal:				
W per °F	**14**	**14**	**14**	**14**
W per °C	**25**	**25**	**25**	**25**
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range				
Maximum (°F/°C)	149/65	149/65	149/65	149/65
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:				
Internal loop 50 Hz (CFM / m^3/hr.)	69/117	69/117	N/A	N/A
External loop 50 Hz (CFM / m^3/hr.)	58/98	58/98	N/A	N/A
Internal loop 60 Hz (CFM / m^3/hr.)	84/142	84/142	175/268	175/268
External loop 60 Hz (CFM / m^3/hr.)	69/117	69/117	158/297	158/297
ELECTRICAL DATA				
Rated Voltage	**115 VAC**	**230 VAC**	**24 VDC**	**48 VDC**
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	69	23	82	87
Max. Nominal Current (A at 50/60 Hz)	0.6	0.1	3.4	1.8
Agency Approvals	UL/cUL Listed CE EAC		UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug	Terminal block	Terminal block
ENCLOSURE PROTECTION				
UL Type	Type 12, 3R, 4 standard Type 4X optional		Type 12, 3R, 4 standard Type 4X optional	
SOUND LEVEL				
At 1.5 Meters	56 dBA		56 dBA	
UNIT CONSTRUCTION				
Material	Mild steel sheet metal standard Stainless steel optional		Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS				
Height (in./mm)	23/584.2	23/584.2	23/584.2	23/584.2
Width (in./mm)	12/304.8	12/304.8	12/304.8	12/304.8
Depth (in./mm)	7.1/180.3	7.1/180.3	7.1/180.3	7.1/180.3
Weight (lb./kg)	30/13.6	30/13.6	30/13.6	30/13.6

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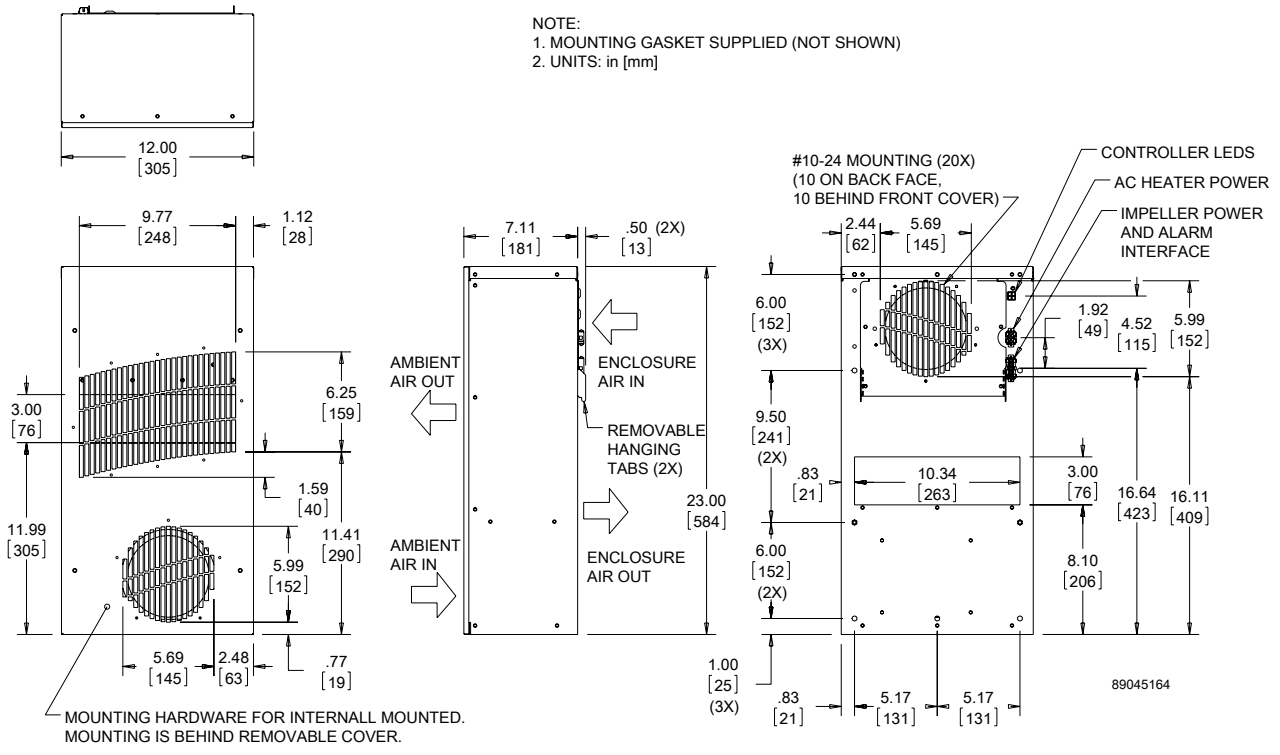
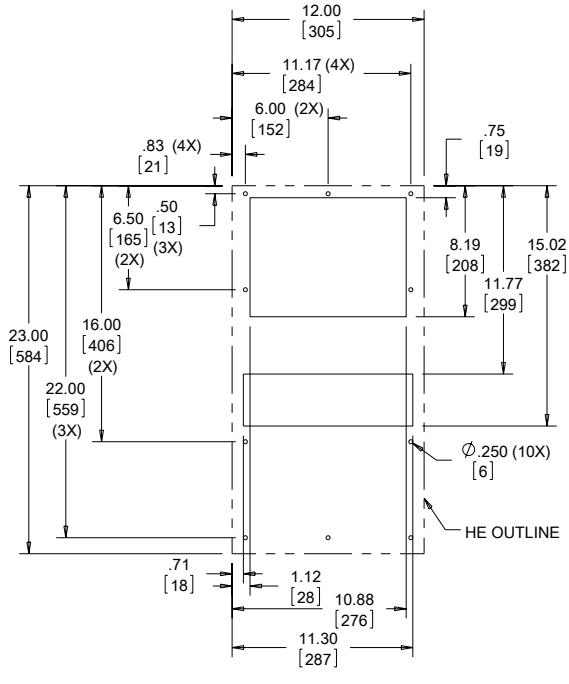
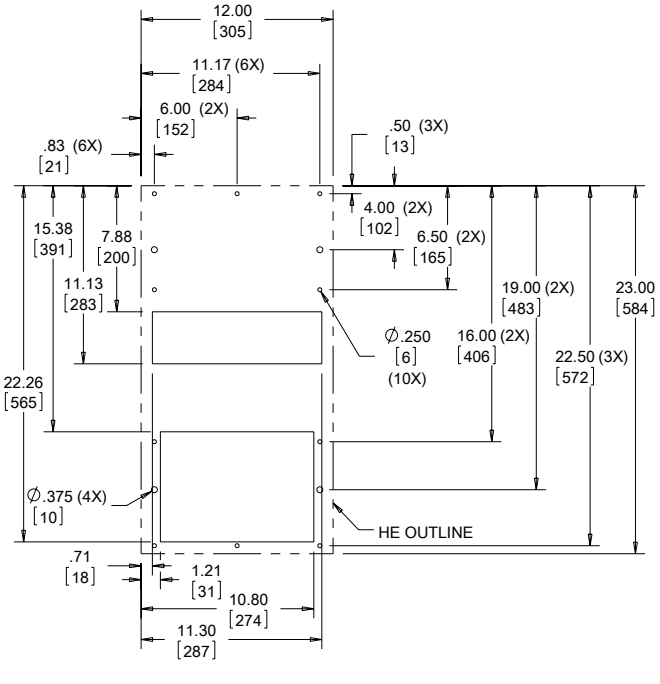
TX23 DC Models 14 W/°F (25°C)





CUTOUT DIMENSIONS
(EXTERNAL MOUNT)



CUTOUT DIMENSIONS
(INTERNAL MOUNT)

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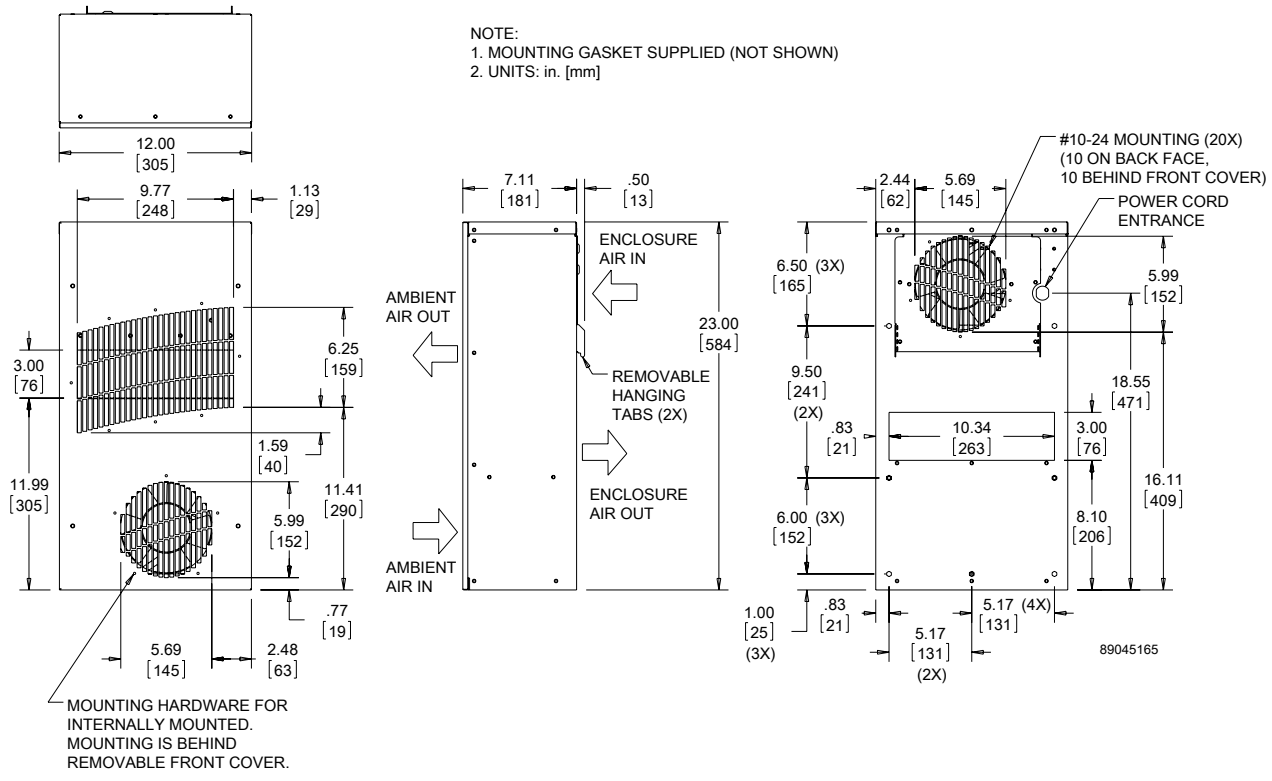
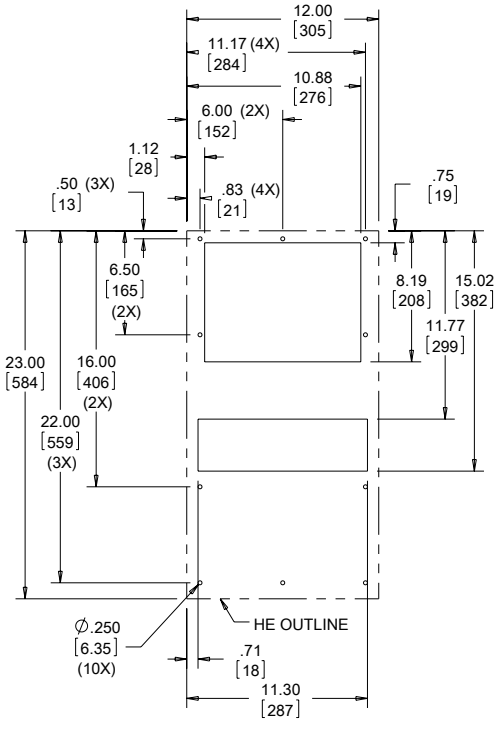
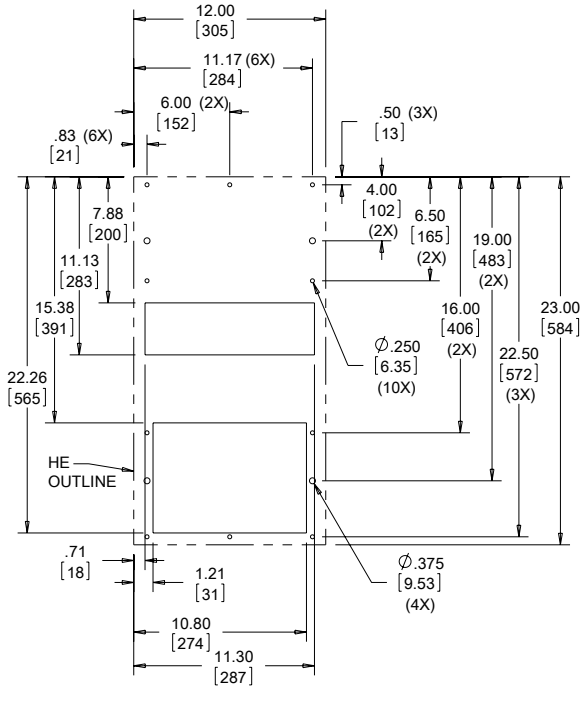
TX23 AC Models 14W/°F (25 W /°C)





CUTOUT DIMENSIONS (EXTERNAL MOUNT)



CUTOUT DIMENSIONS (INTERNAL MOUNT)

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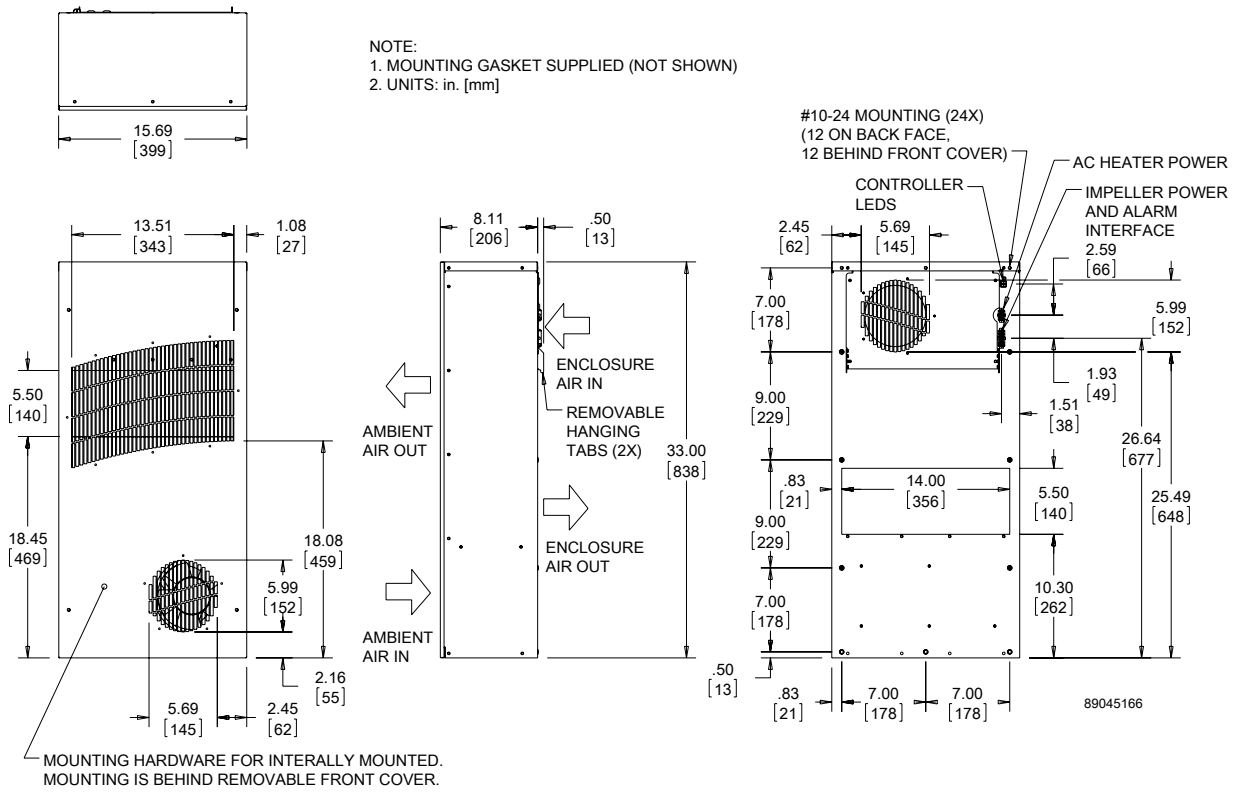
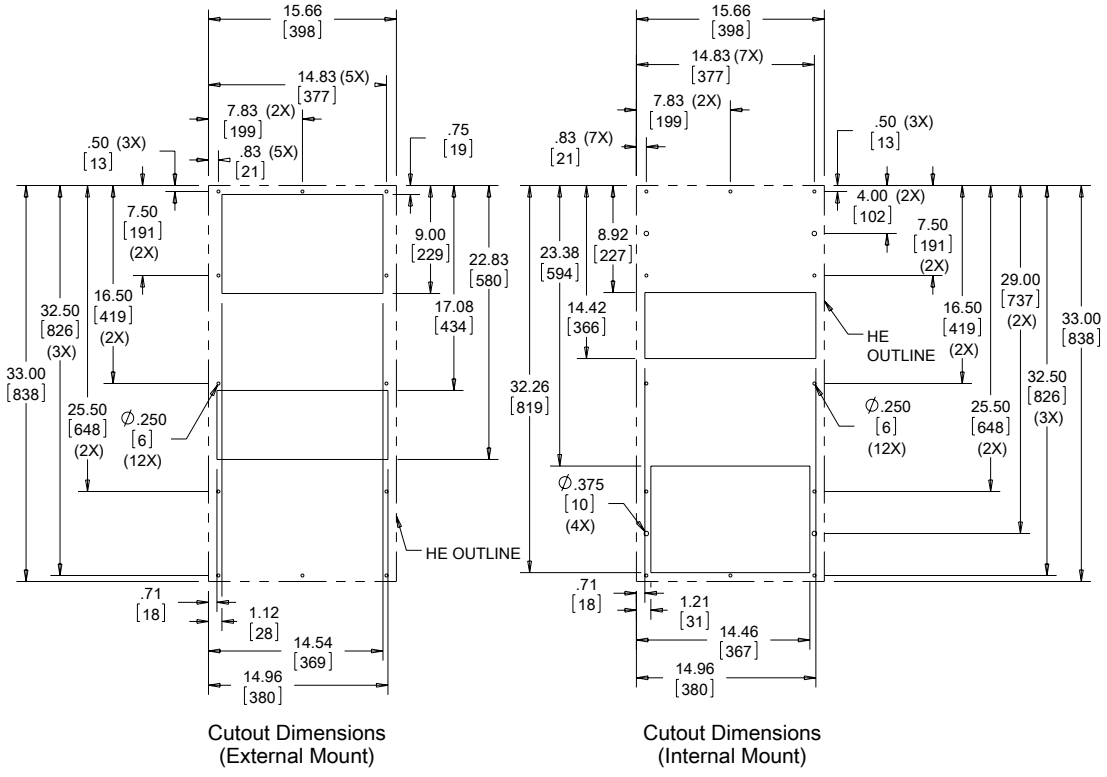
Performance Data **TX33 Models 28 W/°F (50 W/°C)**

CATALOG NUMBER	TX332816100	TX332826100	TX332824100	TX332848100
COOLING PERFORMANCE				
Nominal:				
W per °F	**28**	**28**	**28**	**28**
W per °C	**50**	**50**	**50**	**50**
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range:				
Maximum (°F/°C)	149/65	149/65	149/65	149/65
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:				
Internal loop 50 Hz (CFM / m^3/hr.)	212/360	212/360	N/A	N/A
External loop 50 Hz (CFM / m^3/hr.)	238/404	238/404	N/A	N/A
Internal loop 60 Hz (CFM / m^3/hr.)	228/387	228/387	228/387	228/387
External loop 60 Hz (CFM / m^3/hr.)	263/447	263/447	166/282	166/282
ELECTRICAL DATA				
Rated Voltage	**115 VAC**	**230 VAC**	**24 VDC**	**48 VDC**
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	161	92	82	87
Max. Nominal Current (A at 50/60 Hz)	1.4	0.4	3.4	1.8
Agency Approvals	UL/cUL Listed CE EAC		UL/cUL Listed CE EAC	
Power Input Description	Terminal block	Terminal block	Terminal block	Terminal block
ENCLOSURE PROTECTION				
UL Type	Type 12, 3R, 4 standard Type 4X optional		Type 12, 3R, 4 standard Type 4X optional	
SOUND LEVEL				
At 1.5 Meters	56 dBA		56 dBA	
UNIT CONSTRUCTION				
Material	Mild steel sheet metal standard Stainless steel optional		Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS				
Height (in./mm)	33/838.2	33/838.2	33/838.2	33/838.2
Width (in./mm)	15.7/398.8	15.7/398.8	15.7/398.8	15.7/398.8
Depth (in./mm)	8.1/205.7	8.1/205.7	8.1/205.7	8.1/205.7
Weight (lb./kg)	45/20.4	45/20.4	45/20.4	45/20.4

TX 33 DC Models 28 W/°F (50 W/°C)





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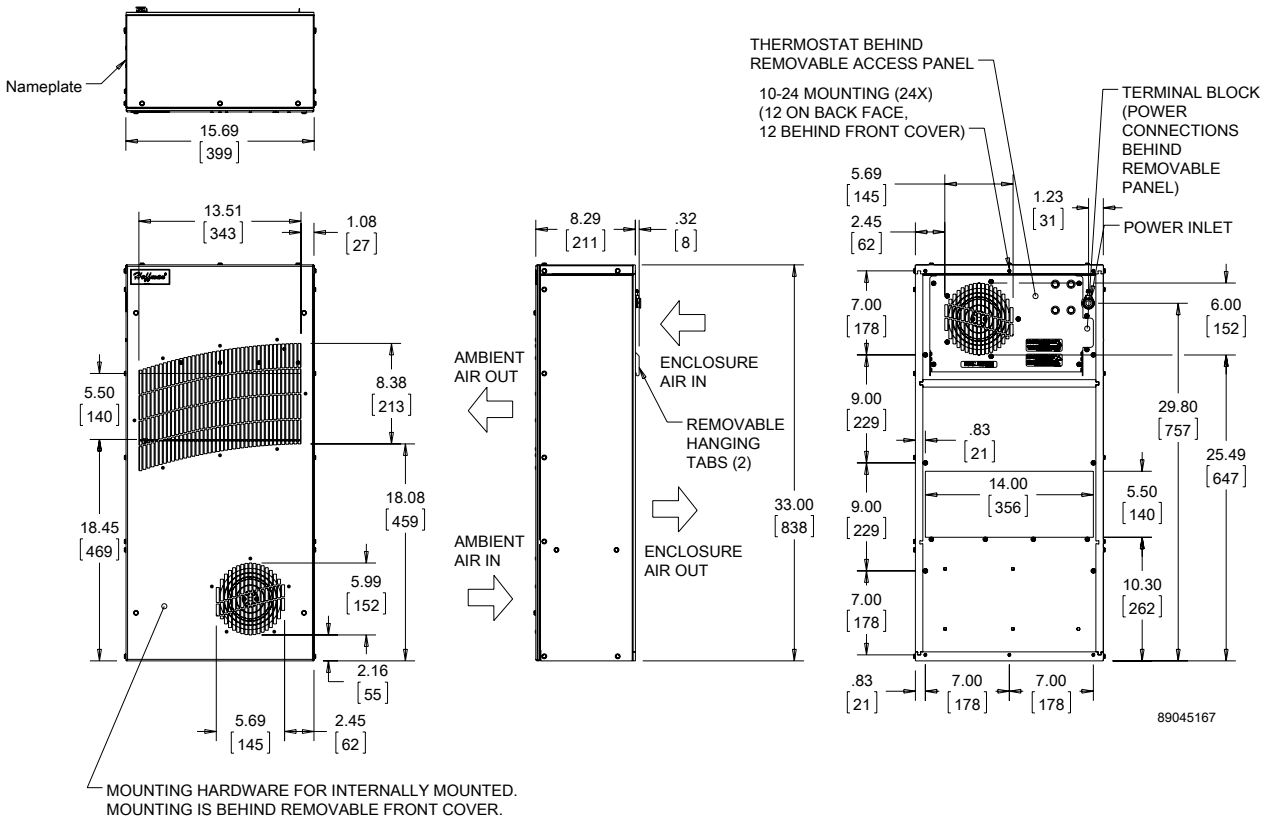
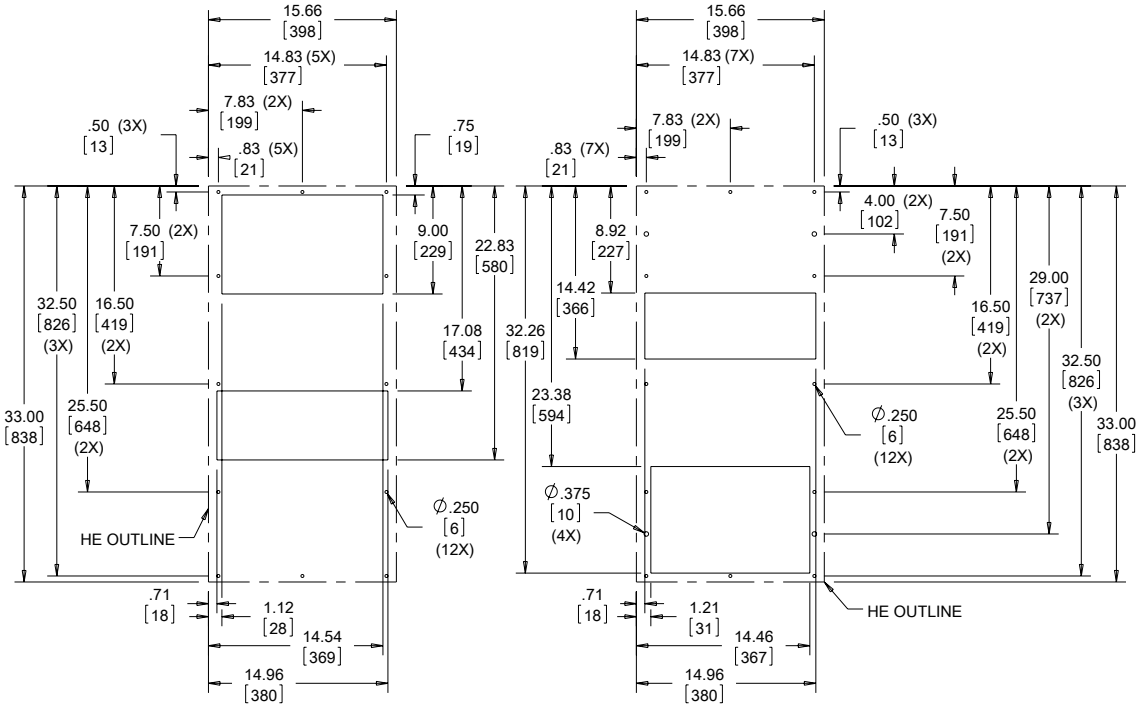
TX33 AC Models 28 W/°F (50 W/°C)





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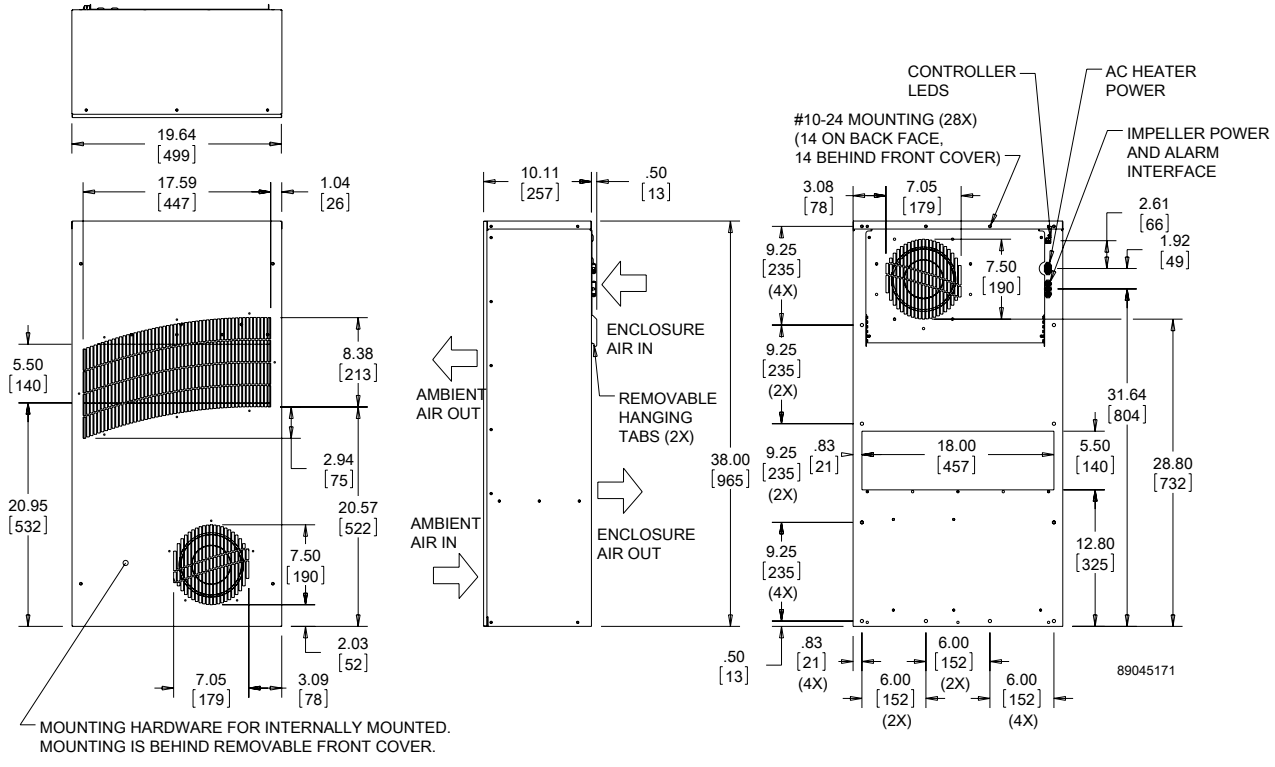
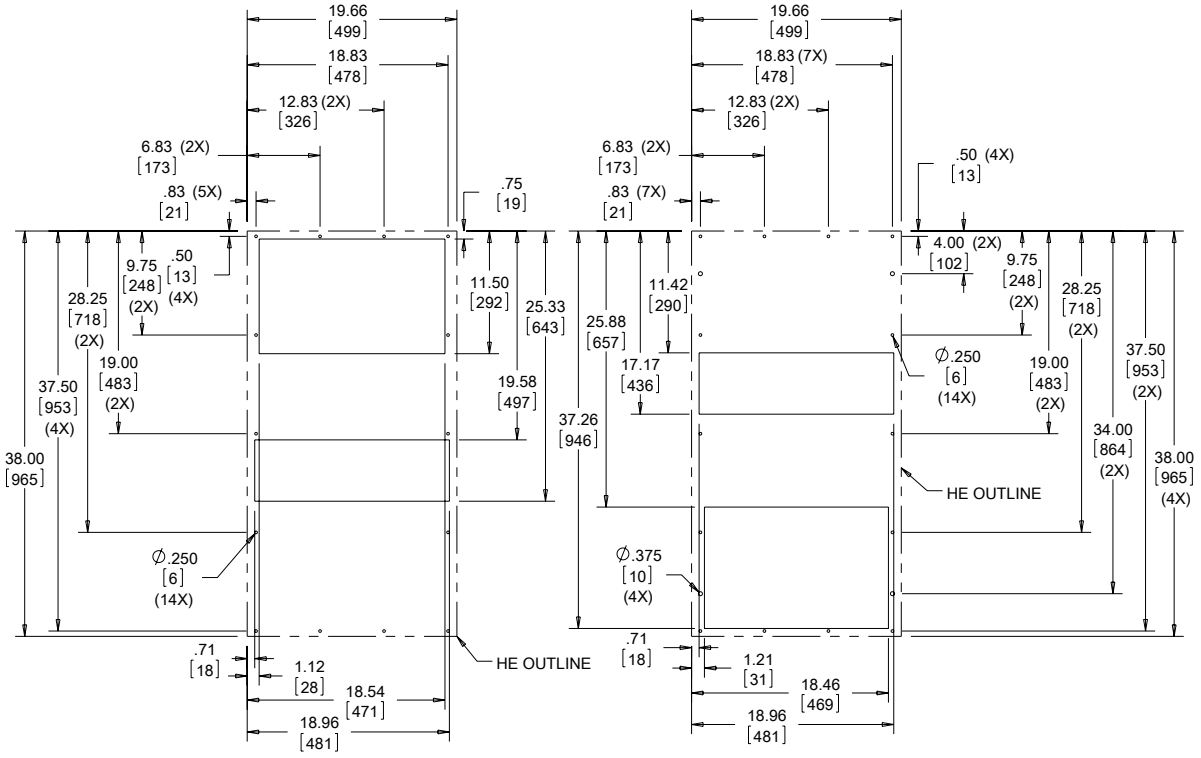
Performance Data **TX38 Models 56 W/°F (100 W/°C)**

CATALOG NUMBER	TX385616100	TX385626100	TX385624100	TX385648100
COOLING PERFORMANCE				
Nominal:				
W per °F	**56**	**56**	**56**	**56**
W per °C	**100**	**100**	**100**	**100**
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range:				
Maximum (°F/°C)	149/65	149/65	149/65	149/65
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:				
Internal loop 50 Hz (CFM / m^3/hr.)	425/722	425/722	N/A	N/A
External loop 50 Hz (CFM / m^3/hr.)	461/738	461/738	N/A	N/A
Internal loop 60 Hz (CFM / m^3/hr.)	477/810	477/810	368/625	368/625
External loop 60 Hz (CFM / m^3/hr.)	517/878	517/878	422/717	422/717
ELECTRICAL DATA				
Rated Voltage	**115 VAC**	**230 VAC**	**24 VDC**	**48 VDC**
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	368	276	207	279
Max. Nominal Current (A at 50/60 Hz)	2.3/3.2	0.7/1.2	8.6	5.8
Agency Approvals	UL/cUL Listed CE EAC		UL/cUL Listed CE EAC	
Power Input Description	Terminal block	Terminal block	Terminal block	Terminal block
ENCLOSURE PROTECTION				
UL Type	Type 12, 3R, 4 standard Type 4X optional		Type 12, 3R, 4 standard Type 4X optional	
SOUND LEVEL				
At 1.5 Meters	64 dBA		64 dBA	
UNIT CONSTRUCTION				
Material	Mild Mild steel sheet metal standard		Mild Mild steel sheet metal standard	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS				
Height (in./mm)	38/965.2	38/965.2	38/965.2	38/965.2
Width (in./mm)	19.7/500.4	19.7/500.4	19.7/500.4	19.7/500.4
Depth (in./mm)	10.1/256.5	10.1/256.5	10.1/256.5	10.1/256.5
Weight (lb./kg)	66/30	66/30	66/30	66/30

TX38 DC Models 56 W/°F (100 W/°C)





Cutout Dimensions (External Mount)

Cutout Dimensions (Internal Mount)

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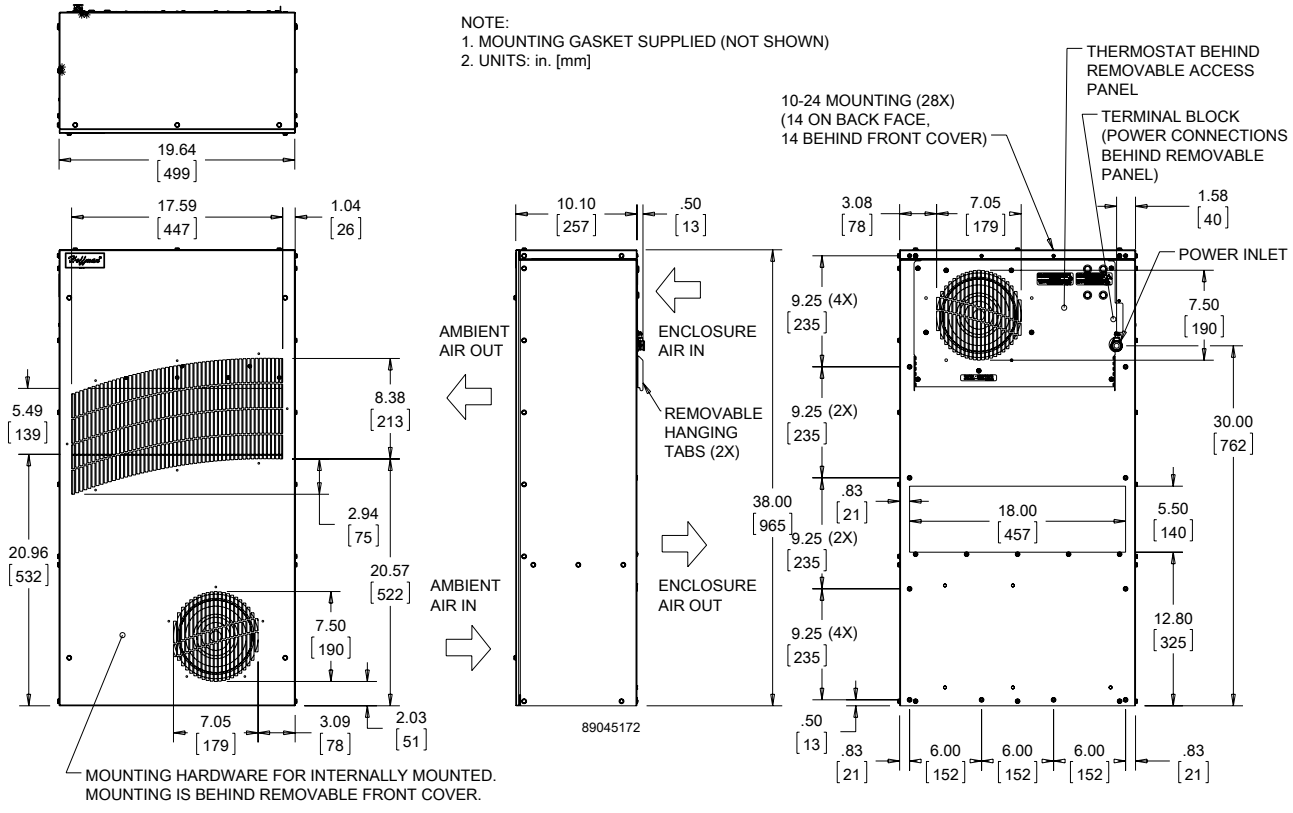
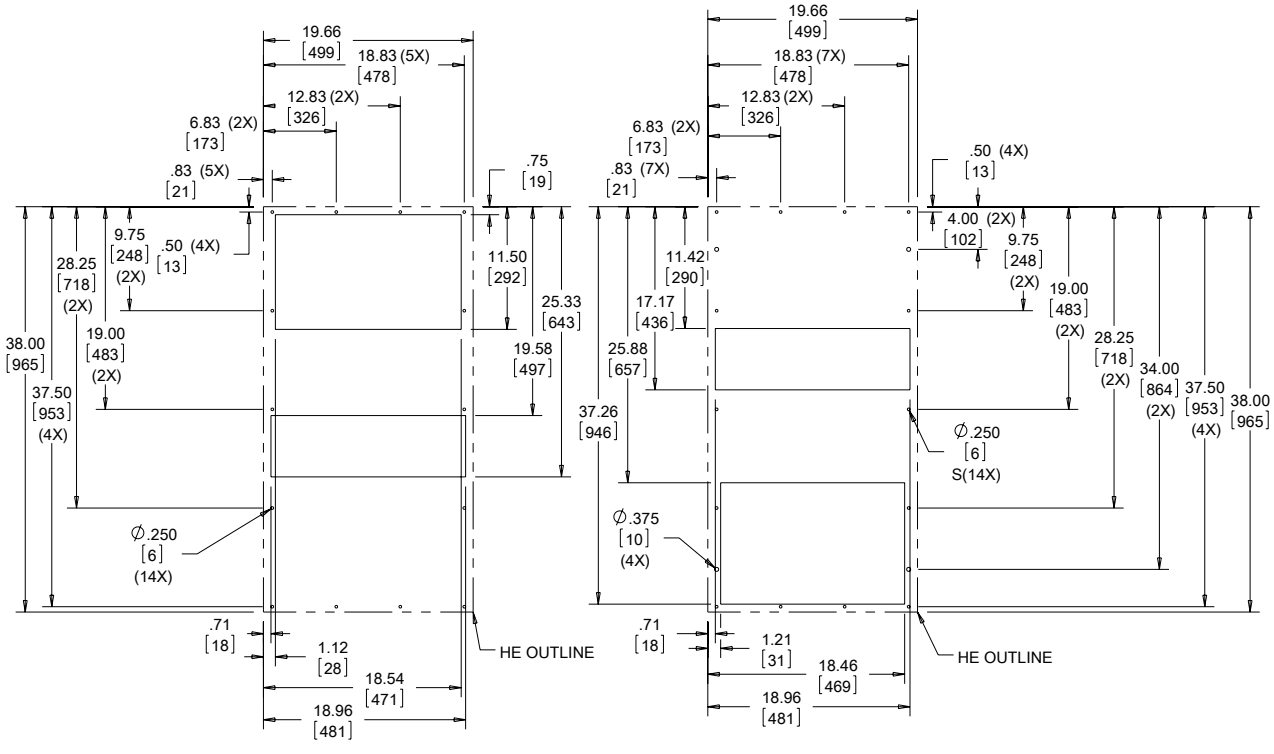
TX38 AC Models 56 W/°F (100 W/°C)





Cutout Dimensions (External Mount)

Cutout Dimensions (Internal Mount)

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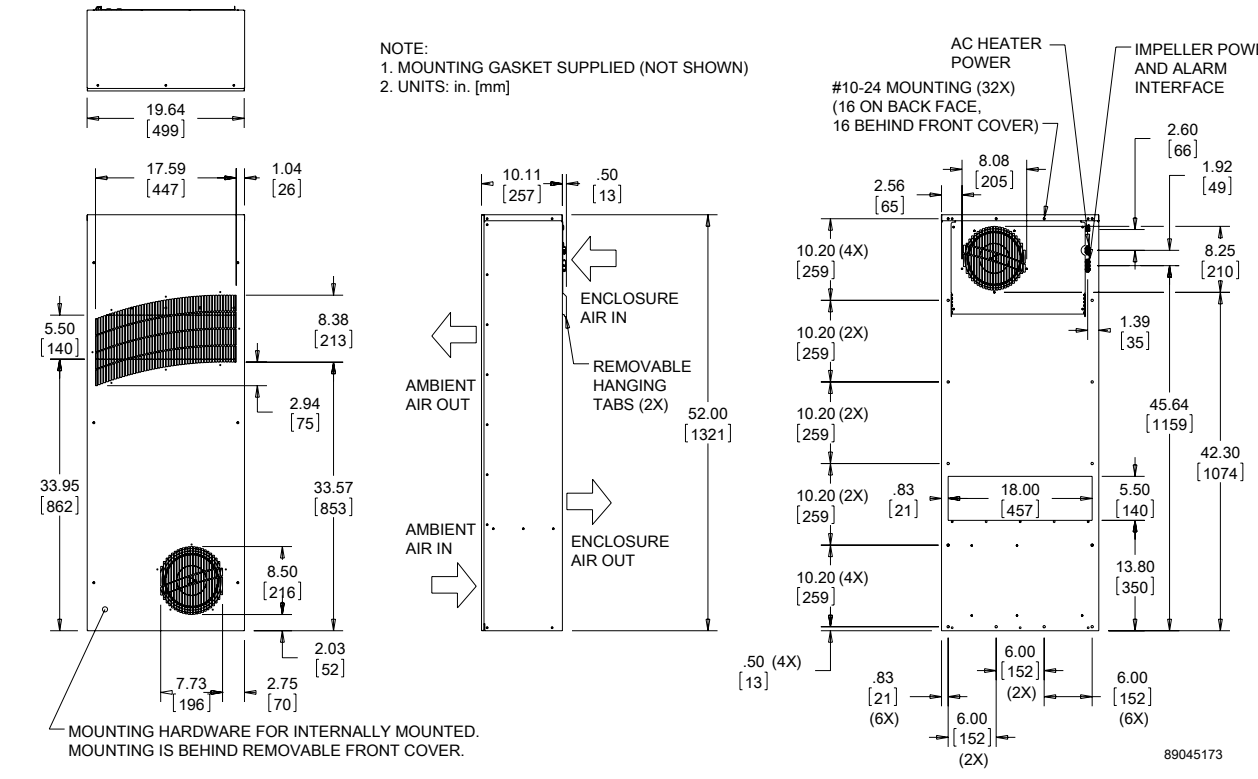
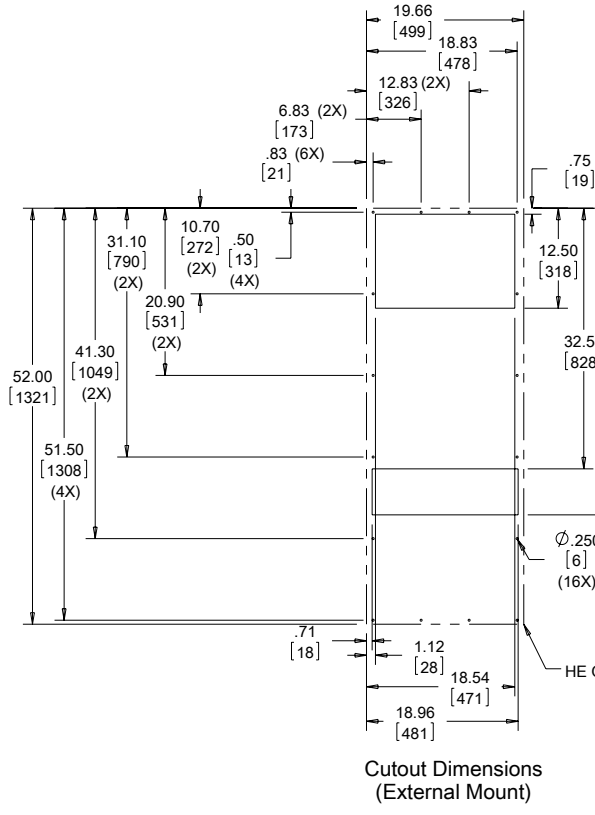
Performance Data **TX52 Models 83 W/°F (150 W/°C)**

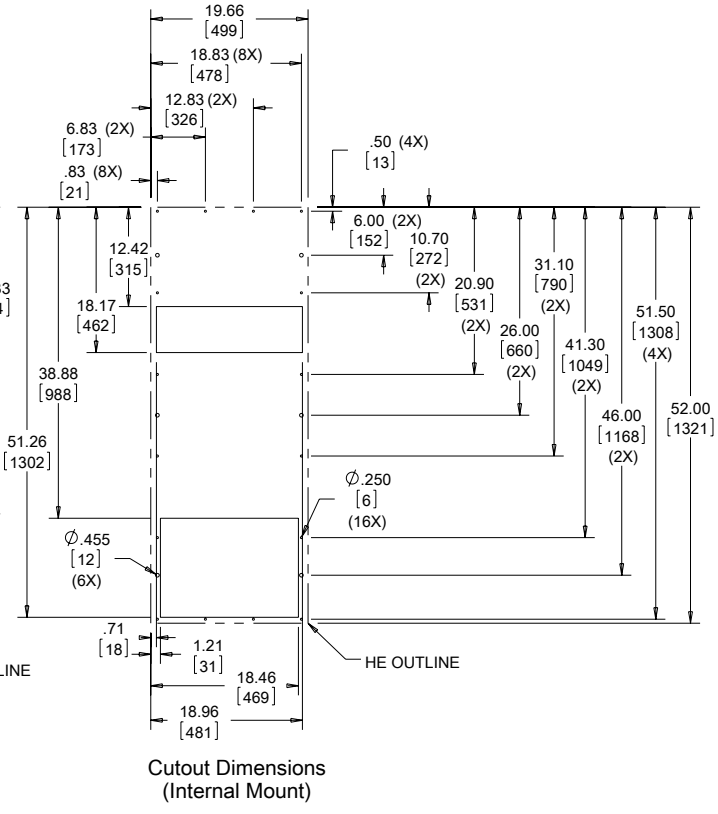
CATALOG NUMBER	TX528316100	TX528326100	TX528324100	TX528348100
COOLING PERFORMANCE				
Nominal:				
W per °F	**83**	**83**	**83**	**83**
W per °C	**150**	**150**	**150**	**150**
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range:				
Maximum (°F/°C)	149/65	149/65	149/65	149/65
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:				
Internal loop 50 Hz (CFM / m^3/hr.)	495/841	495/841	N/A	N/A
External loop 50 Hz (CFM / m^3/hr.)	540/917	540/917	N/A	N/A
Internal loop 60 Hz (CFM / m^3/hr.)	533/905	533/905	466/792	466/792
External loop 60 Hz (CFM / m^3/hr.)	605/1028	605/1028	547/929	547/929
ELECTRICAL DATA				
Rated Voltage	**115 VAC**	**230 VAC**	**24 VDC**	**48 VDC**
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	782	771	507	375
Max. Nominal Current (A at 50/60 Hz)	4.3/6.7	2.2/3.4	21.1	7.8
Agency Approvals	UL/cUL Listed CE EAC		UL/cUL Listed CE EAC	
Power Input Description	Terminal block	Terminal block	Terminal block	Terminal block
ENCLOSURE PROTECTION				
UL Type	Type 12, 3R, 4 standard Type 4X optional		Type 12, 3R, 4 standard Type 4X optional	
SOUND LEVEL				
At 1.5 Meters	68 dBA		68 dBA	
UNIT CONSTRUCTION				
Material	Mild steel sheet metal standard Stainless steel optional		Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard		RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS				
Height (in./mm)	52/1320.8	52/1320.8	52/1320.8	52/1320.8
Width (in./mm)	19.7/500.4	19.7/500.4	19.7/500.4	19.7/500.4
Depth (in./mm)	10.1/256.5	10.1/256.5	10.1/256.5	10.1/256.5
Weight (lb./kg)	100/45.3	100/45.3	100/45.3	100/45.3

TX52 DC Models 83 W/°F (150 W/°C)





Cutout Dimensions (External Mount)



Cutout Dimensions (Internal Mount)

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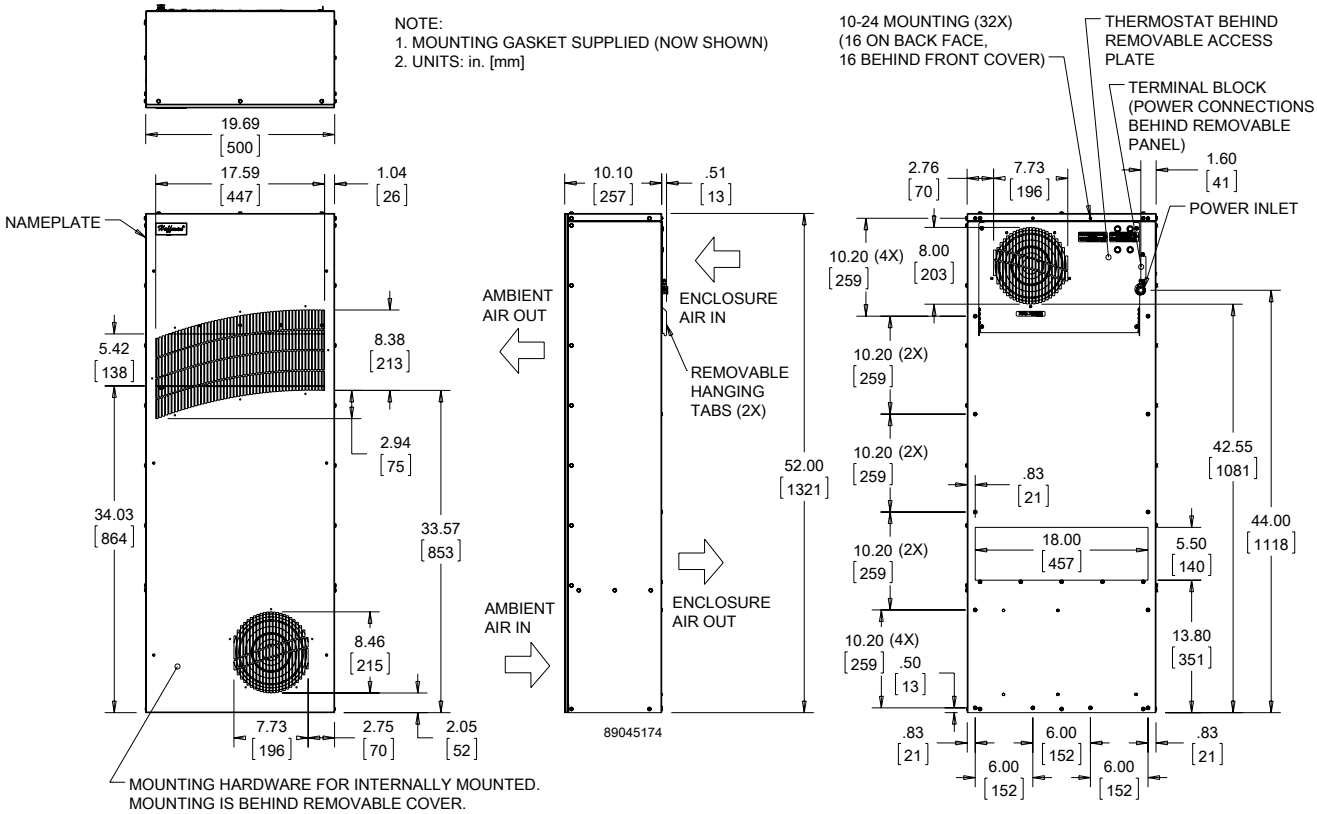
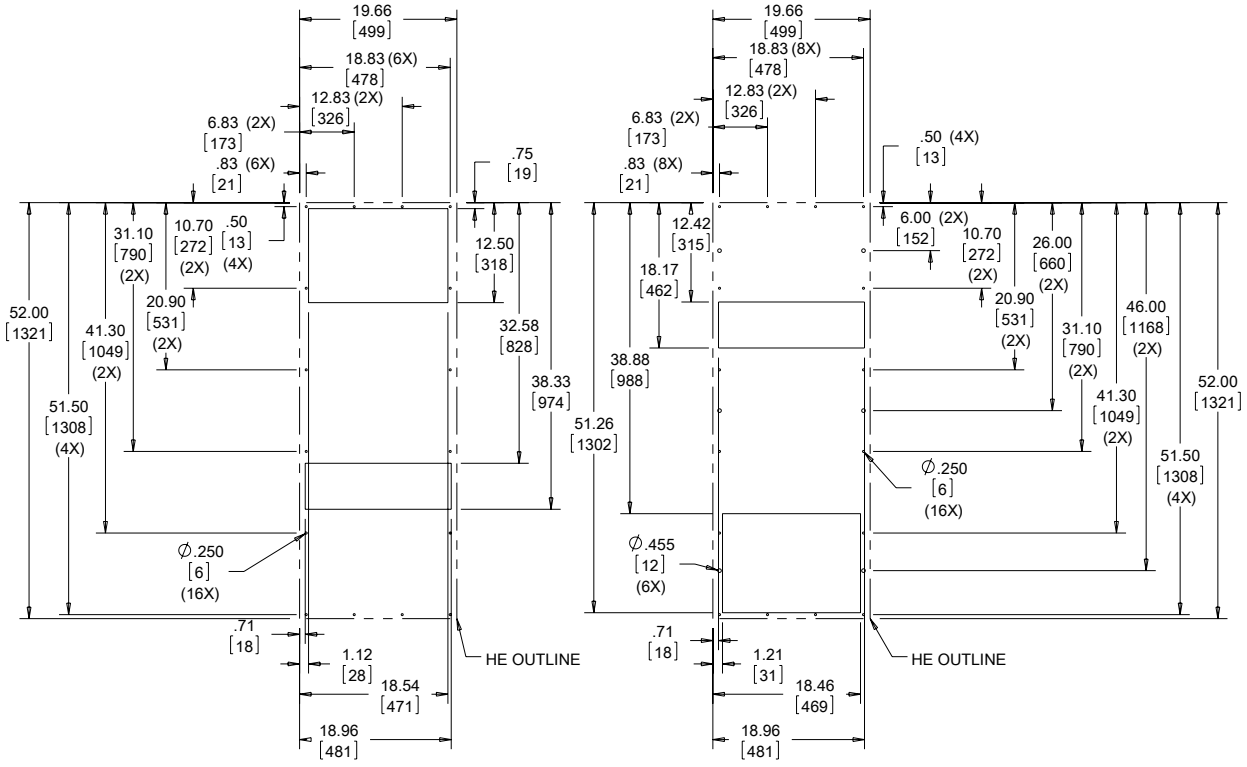
TX52 AC Models 83 W/°F (150 W/°C)





Cutout Dimensions (External Mount)

Cutout Dimensions (Internal Mount)

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Notes

nVent | HOFFMAN

CLIMAGUARD AIR-TO-WATER INDOOR

WCHE01	WCHE04/WCHE06	WCHE14
2968 BTU/Hr.	7506/10577 BTU/Hr.	22861 BTU/Hr.
870 Watts	2200/3100 Watts	6700 Watts

INDUSTRY STANDARDS

UL/cUL Listed; Type 12; File No. SA33866

CE
EAC (230V models only)
IP55

APPLICATION

- Industrial process controls
- Industrial robotics controls
- Electronic cabinets in harsh environments
- Conveyor systems

FEATURES

- Capacities ranging from 870 watts to 6700 watts
- Filterless design
- NEMA power cord connection standard
- Copper pipe and aluminum fins heat exchanger core
- Air movers with thermal protection
- Regulating mechanical thermostat set at 35 C (95 F), differential of 4 C (7 F)
- Inside cabinet temperature from 10-50 C (50-122 F)
- Ambient operating temperature range from 10-70 C (50-158 F)
- Solenoid water valve
- UL Listed to save customers time and money with agency approvals
- Recovery of condensation system and condensation discharge pipe
- Requires an available cooled water source

FINISH

- Standard models constructed of rugged steel
- RAL 7035 light-gray, powder-coat polyester paint

NOTES

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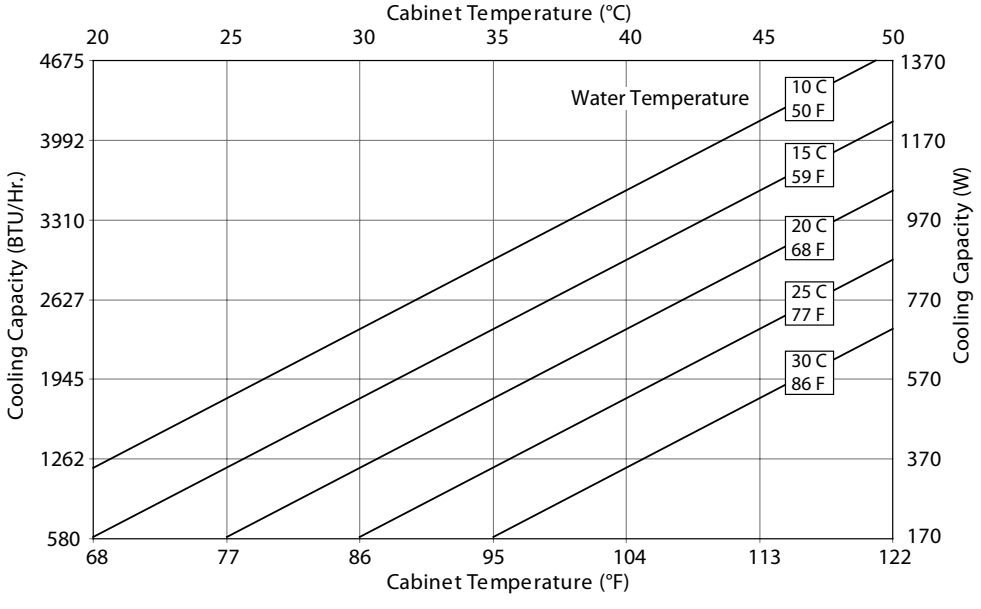
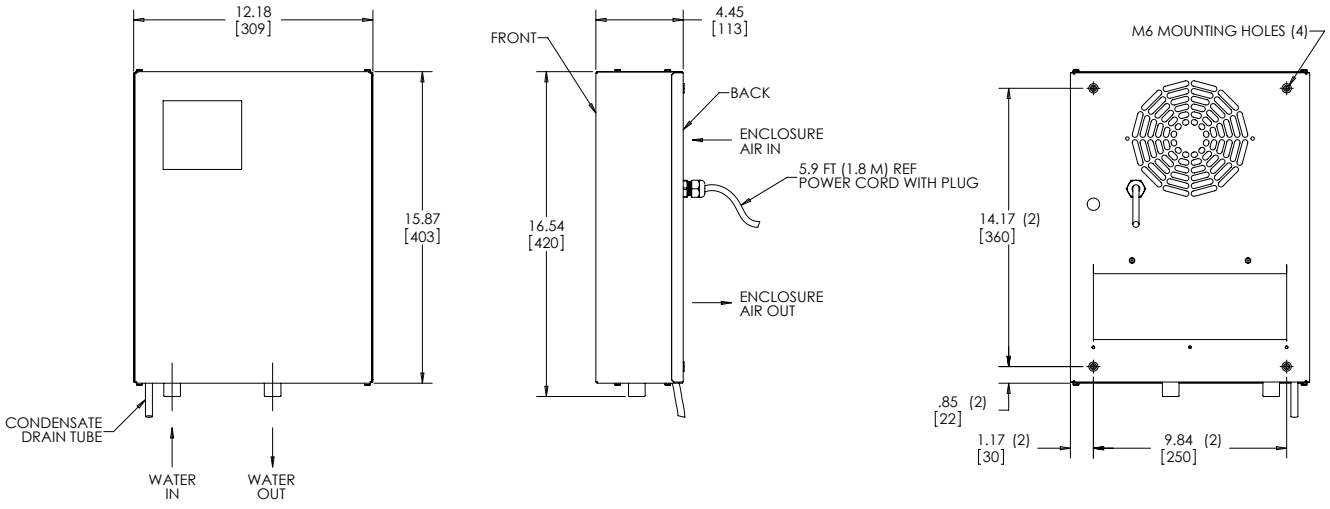
Performance Data **WCHE01 Models 870 Watt**

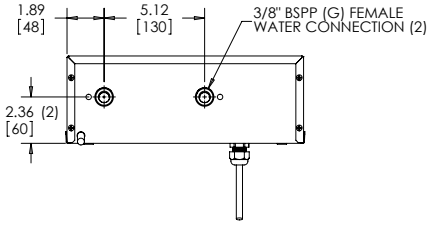
CATALOG NUMBER	WCHE01916002	WCHE01926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	2968	2968
Watts @ Δt 25 C	870	870
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature Range:		
Maximum (°F/°C)	158/70	158/70
Minimum (°F/°C)	50/10	50/10
Flow at 0 Static Pressure:		
Internal loop 50 Hz (Airflow: CFM / m^3/hr.)	194/330	194/330
External loop 50 Hz (Waterflow: GPM @ 95 F)	0.66	0.66
Internal loop 60 Hz (Airflow: CFM / m^3/hr.)	194/330	194/330
External loop 60 Hz (Waterflow: GPM @ 95 F)	0.66	0.66
ELECTRICAL DATA		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	28	28
Max. Nominal Current (A at 50/60 Hz)	0.5	0.5
Starting Current (Amps)	0.7	0.7
Agency Approvals	UL/cUL Listed CE	UL/cUL Listed CE EAC
Power Input Description	Cord with NEMA 5-15 plug	Cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12/IP55	Type 12/IP55
CONTROLLER		
Description	Basic Mechanical Thermostat	
Thermostat Location	Behind front cover, near the fan	
Factory Thermostat Setting (°F/°C)	95/35	95/35
SOUND LEVEL		
At 1.0 Meters	58 dBA	58 dBA
UNIT CONSTRUCTION		
Material	Mild Steel Sheet Metal Standard	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	15.9/404	15.9/404
Width (in./mm)	12.12/308	12.12/308
Depth (in./mm)	4.49/114	4.49/114
Weight (lb./kg)	19.84/9	19.84/9

Performance Curves for WCHE01 Models 870 Watt

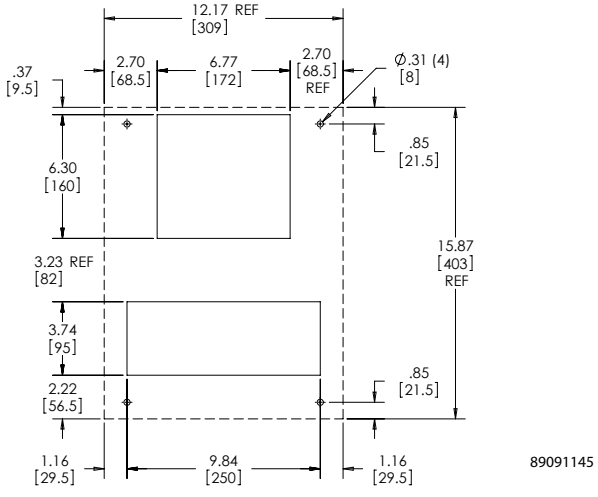


WCHE01 Models 870 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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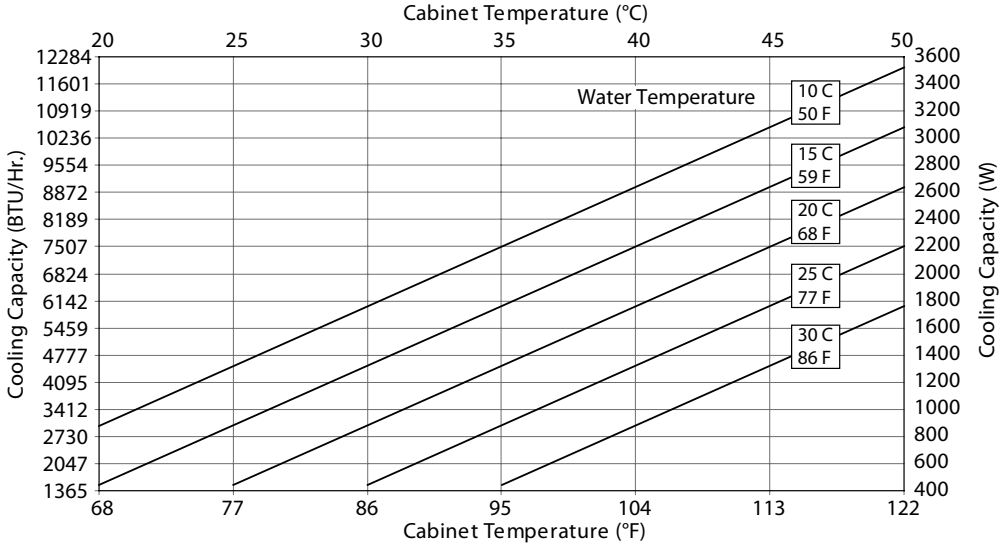
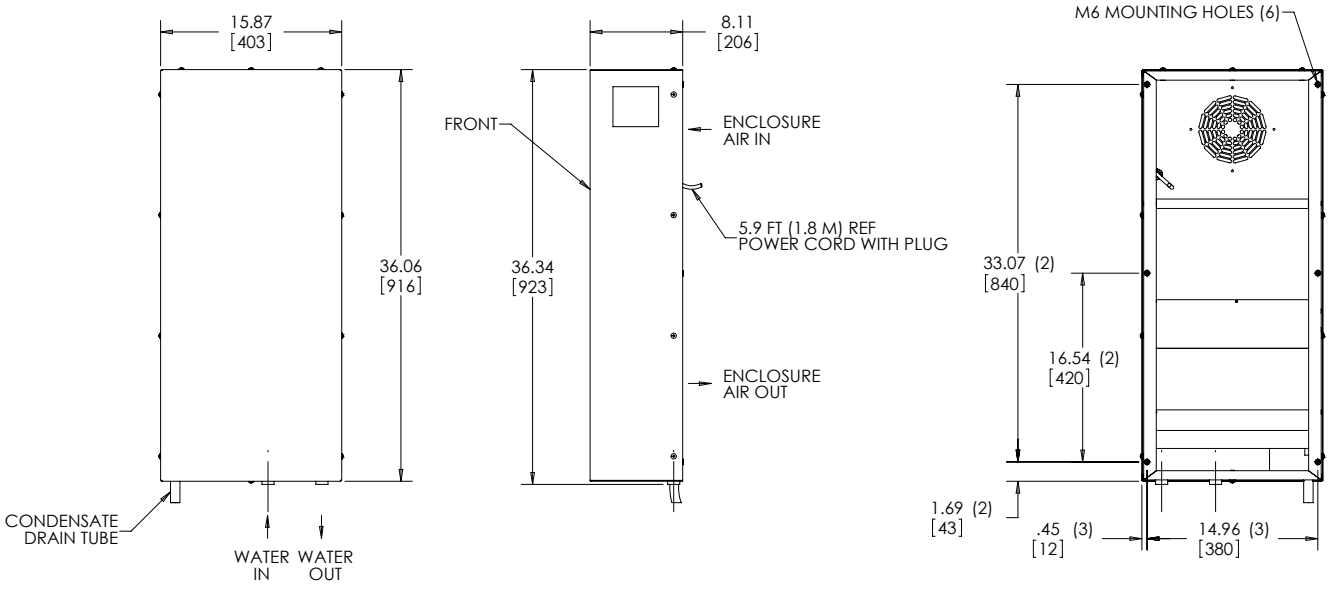
Performance Data **WCHE04 Models 2200 Watt**

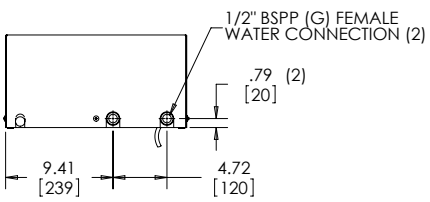
CATALOG NUMBER	WCHE04916002	WCHE04926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	7506	7506
Watts @ Δt 25 C	2200	2200
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature Range:		
Maximum (°F/°C)	158/70	158/70
Minimum (°F/°C)	50/10	50/10
Flow at 0 Static Pressure:		
Internal loop 50 Hz (Airflow: CFM / m^3/hr.)	339/575	339/575
External loop 50 Hz (Waterflow: GPM @ 95 F)	0.66	0.66
Internal loop 60 Hz (Airflow: CFM / m^3/hr.)	339/575	339/575
External loop 60 Hz (Waterflow: GPM @ 95 F)	0.66	0.66
ELECTRICAL DATA		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	90	90
Max. Nominal Current (A at 50/60 Hz)	0.8	0.8
Starting Current (Amps)	1	1
Agency Approvals	UL/cUL Listed CE	UL/cUL Listed CE EAC
Power Input Description	Cord with NEMA 5-15 plug	Cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12/IP55	Type 12/IP55
CONTROLLER		
Description	Basic Mechanical Thermostat	
Thermostat Location	Behind front cover, near the fan	
Factory Thermostat Setting (°F/°C)	95/35	95/35
SOUND LEVEL		
At 1.0 Meters	58 dBA	58 dBA
UNIT CONSTRUCTION		
Material	Mild Steel Sheet Metal Standard	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	36.41/925	36.41/925
Width (in./mm)	15.75/400	15.75/400
Depth (in./mm)	8.07/205	8.07/205
Weight (lb./kg)	44.1/20	44.1/20

Performance Curves for WCHE04 Models 2200 Watt

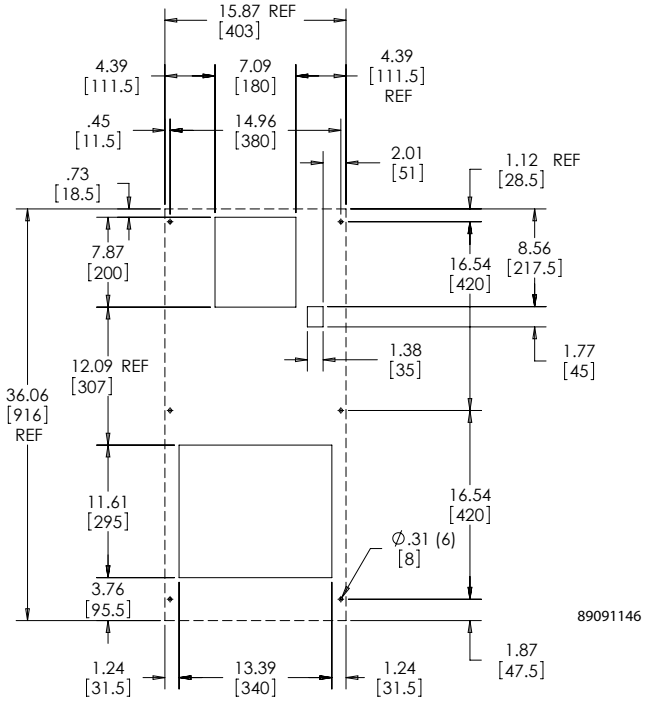


WCHE04 Models 2200 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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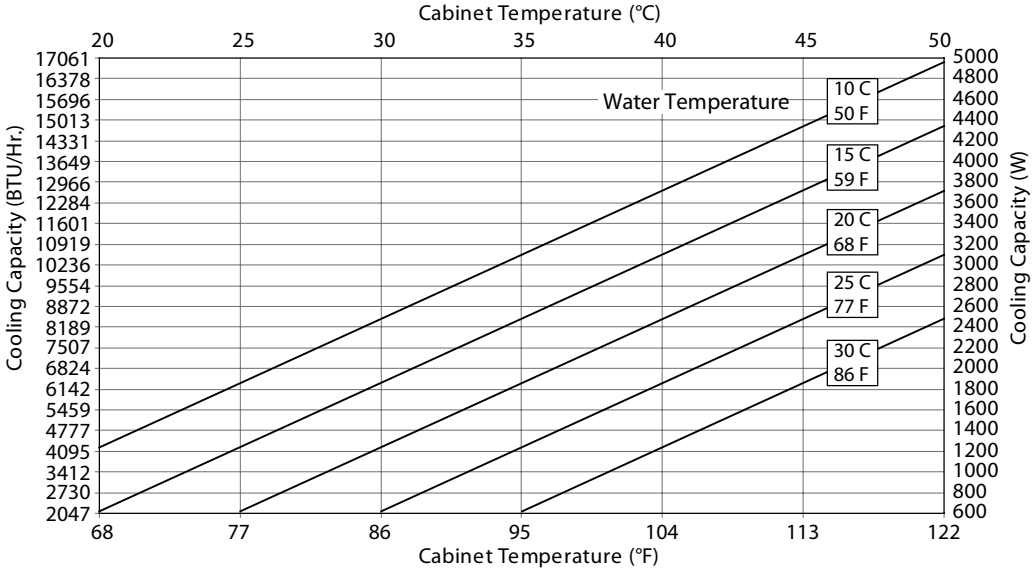
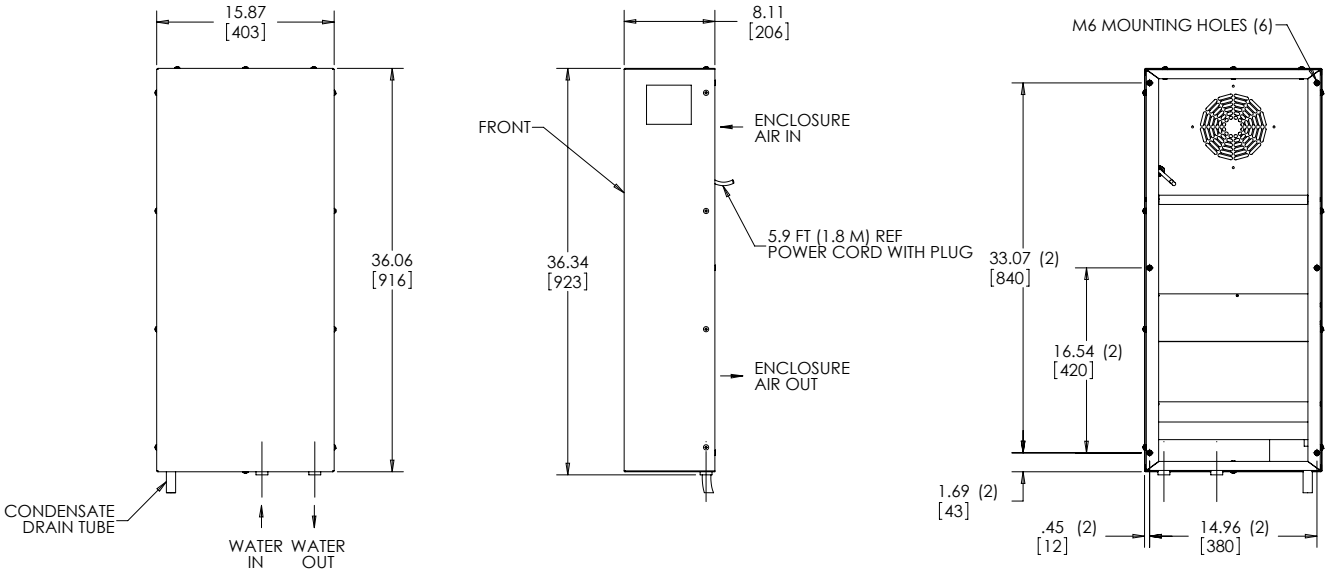
Performance Data **WCHE06 Models 3100 Watt**

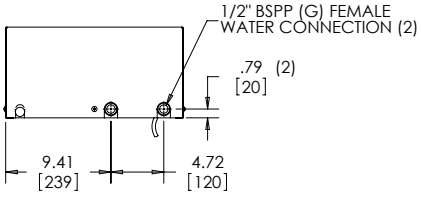
CATALOG NUMBER	WCHE06916002	WCHE06926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	10577	10577
Watts @ Δt 25 C	3100	3100
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature Range:		
Maximum (°F/°C)	158/70	158/70
Minimum (°F/°C)	50/10	50/10
Flow at 0 Static Pressure:		
Internal loop 50 Hz (Airflow: CFM / m^3/hr.)	507/860	507/860
External loop 50 Hz (Waterflow: GPM @ 95 F)	2.2	2.2
Internal loop 60 Hz (Airflow: CFM / m^3/hr.)	507/860	507/860
External loop 60 Hz (Waterflow: GPM @ 95 F)	2.2	2.2
ELECTRICAL DATA		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	110	115
Max. Nominal Current (A at 50/60 Hz)	2	1
Starting Current (Amps)	2.4	1.2
Agency Approvals	UL/cUL Listed CE	UL/cUL Listed CE EAC
Power Input Description	Cord with NEMA 5-15 plug	Cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12/IP55	Type 12/IP55
CONTROLLER		
Description	Basic Mechanical Thermostat	
Thermostat Location	Behind front cover, near the fan	
Factory Thermostat Setting (°F/°C)	95/35	95/35
SOUND LEVEL		
At 1.0 Meters	58 dBA	58 dBA
UNIT CONSTRUCTION		
Material	Mild Steel Sheet Metal Standard	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	36.41/925	36.41/925
Width (in./mm)	15.75/400	15.75/400
Depth (in./mm)	8.07/205	8.07/205
Weight (lb./kg)	46.3/21	46.3/21

Performance Curves for WCHE06 Models 3100 Watt

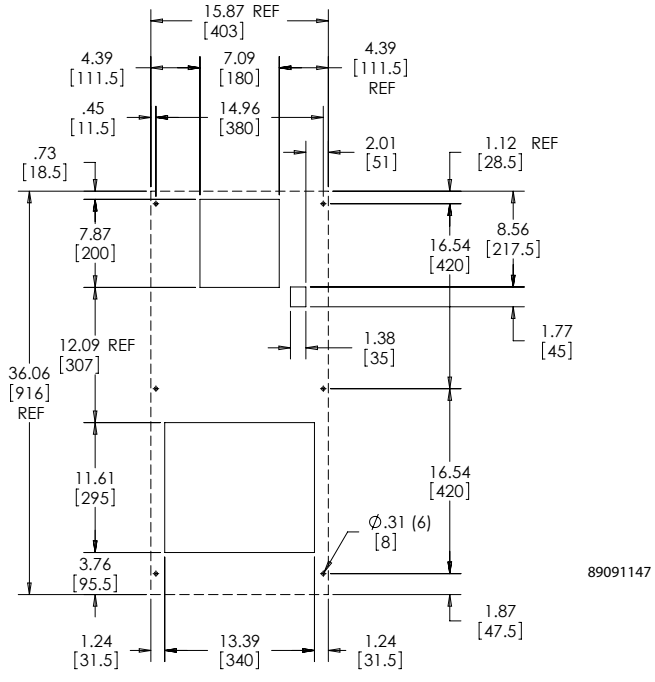


WCHE06 Models 3100 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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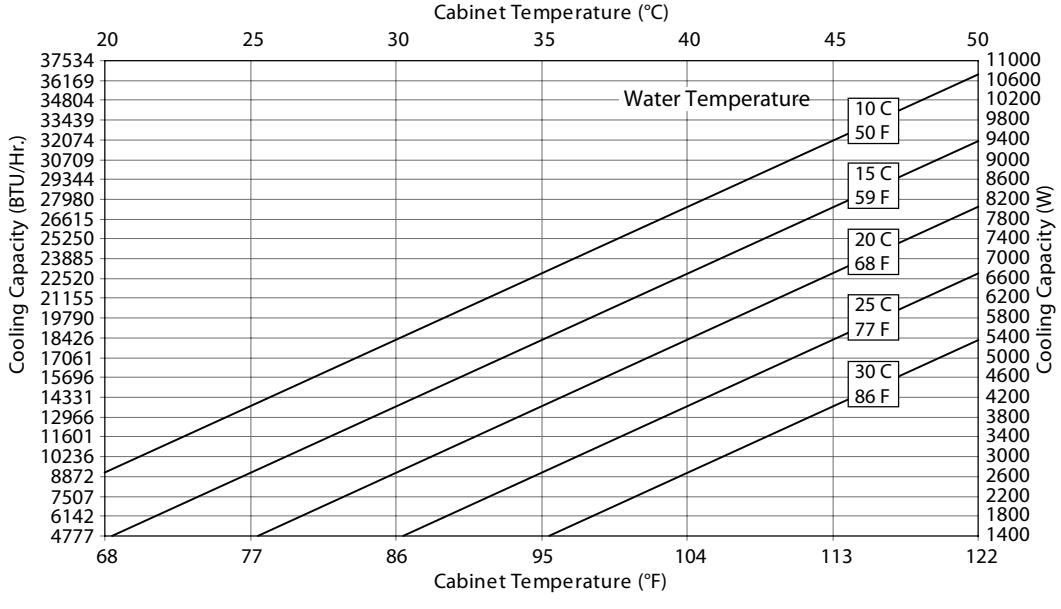
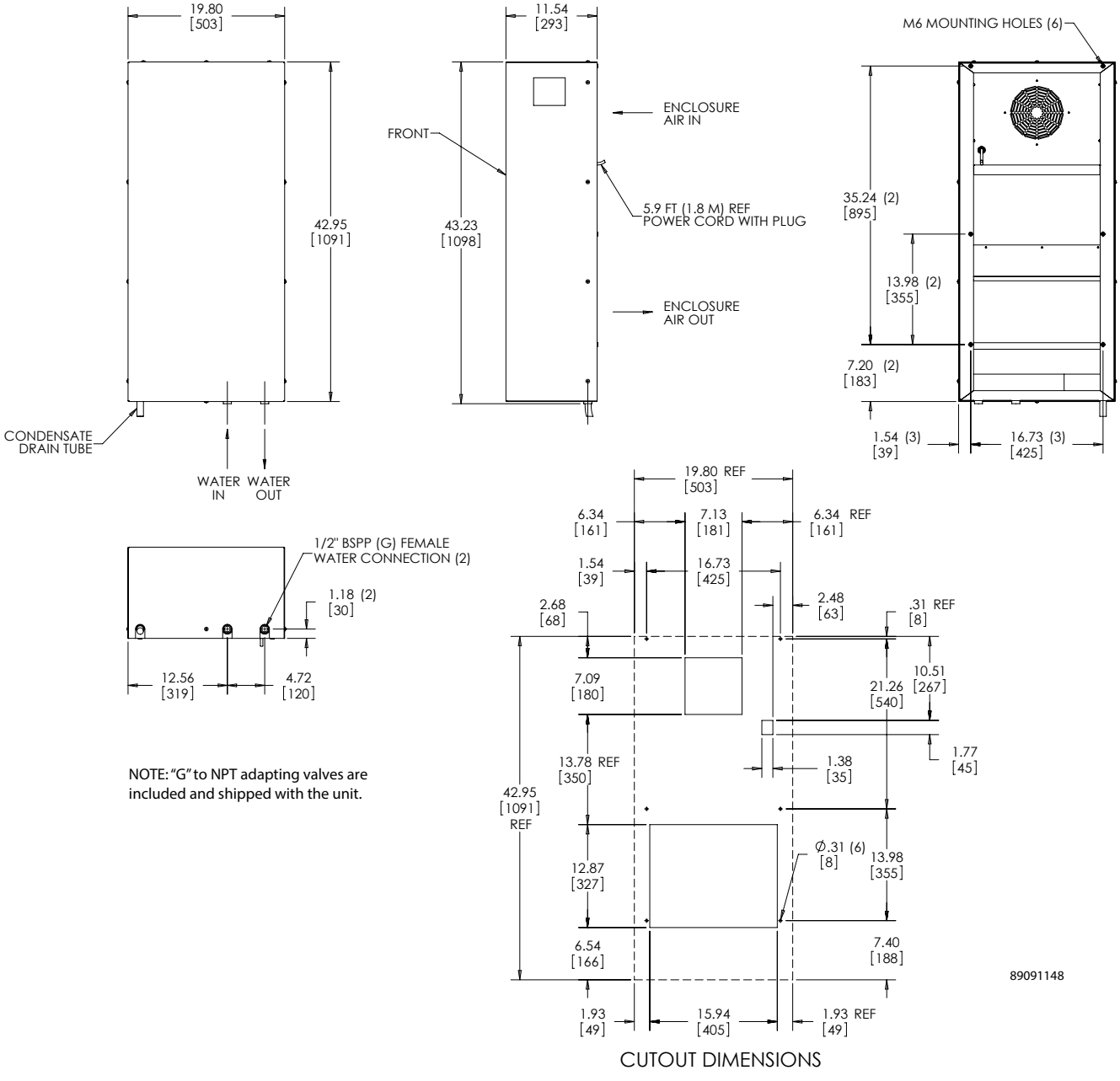
Performance Data **WCHE14 Models 6700 Watt**

CATALOG NUMBER	WCHE14916002	WCHE14926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	22861	22861
Watts @ Δt 25 C	6700	6700
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature Range:		
Maximum (°F/°C)	158/70	158/70
Minimum (°F/°C)	50/10	50/10
Flow at 0 Static Pressure:		
Internal loop 50 Hz (Airflow: CFM / m^3/hr.)	855/1450	855/1450
External loop 50 Hz (Waterflow: GPM @ 95 F)	3.78	3.78
Internal loop 60 Hz (Airflow: CFM / m^3/hr.)	855/1450	855/1450
External loop 60 Hz (Waterflow: GPM @ 95 F)	3.78	3.78
ELECTRICAL DATA		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	200	245
Max. Nominal Current (A at 50/60 Hz)	2	1.3
Starting Current (Amps)	2.4	1.4
Agency Approvals	UL/cUL Listed CE	UL/cUL Listed CE EAC
Power Input Description	Cord with NEMA 5-15 plug	Cord with NEMA 6-15 plug
ENCLOSURE PROTECTION		
UL Type	Type 12/IP55	Type 12/IP55
CONTROLLER		
Description	Basic Mechanical Thermostat	
Thermostat Location	Behind front cover, near the fan	
Factory Thermostat Setting (°F/°C)	95/35	95/35
SOUND LEVEL		
At 1.0 Meters	58 dBA	58 dBA
UNIT CONSTRUCTION		
Material	Mild Steel Sheet Metal Standard	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	43.34/1101	43.34/1101
Width (in./mm)	19.72/501	19.72/501
Depth (in./mm)	11.81/300	11.81/300
Weight (lb./kg)	86/39	86/39

Performance Curves for WCHE14 Models 6700 Watt



WCHE14 Models 6700 Watt



NOTE: "G" to NPT adapting valves are included and shipped with the unit.

CUTOUT DIMENSIONS

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Notes

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THERMOELECTRIC COOLERS INDOOR/OUTDOOR

Unshrouded
60, 100 and 200 Watts

Shrouded
60, 100 and 200 Watts

INDUSTRY STANDARDS

UR, cUR Recognized; Type 12, 3R, 4, 4X; File No. SA6453

CE
IP 65

APPLICATION

Thermoelectric Coolers minimize downtime and component loss by removing heat around critical components within an enclosure. These compact, low-profile coolers using the Peltier effect allow for cooling of small indoor and outdoor enclosures. No condensers, compressors or filters are required making it a reliable solution for demanding low-maintenance environments.

FEATURES

- DC Powered operation for 24V and 48V applications
- Low profile design allows for mounting vertically and horizontally on any enclosure to avoid interference with internal components
- Filterless design reduces maintenance requirements
- Contains no refrigerant, making it earth friendly
- Prewired with simple terminal block for easy wiring connections
- Operates on the Peltier effect for cooling or heating
- Compressor-free air conditioning for demanding indoor and outdoor applications
- Shrouded and unshrouded models included in standard packages
- Operating temperature range -40 C (-40 F) to 55 C (131 F)
- Partial recess mount

SPECIFICATIONS

- Models
  60 Watt, 24 Volt
  100 Watt, 24/48 Volt
  200 Watt, 24/48 Volt

FINISH

- Shrouded finish includes both powder coat paint RAL 7035 light gray standard and stainless steel 304

ACCESSORIES

Thermoelectric Temperature Controller, page 1150
Thermoelectric Condensate Manager, page 1151

NOTES

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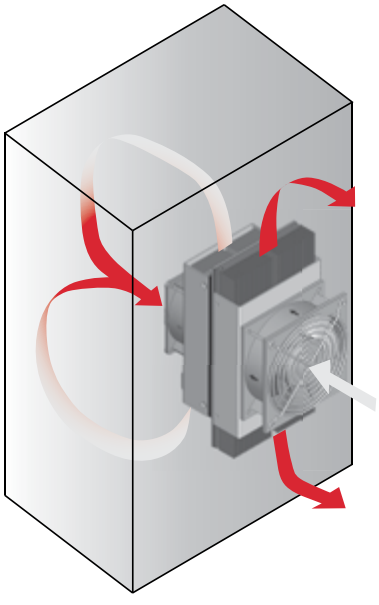
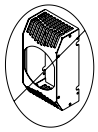
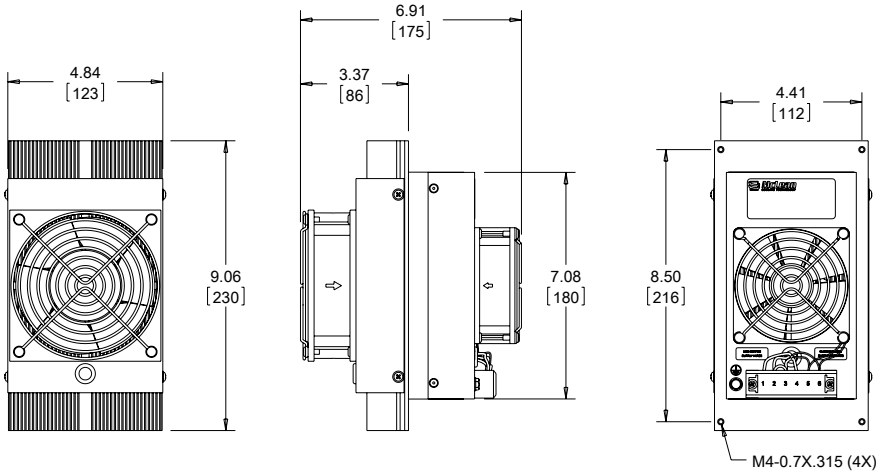


Performance Data **TE09 60W 204 BTU/Hr. (24 V)**

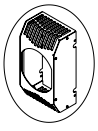
CATALOG NUMBERS			
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud
Catalog Number	TE090624020	TE090624010	TE090624011
COOLING PERFORMANCE			
BTU/Hr.	**178**	**178**	**178**
Watts	**52**	**52**	**52**
Operating Temperature Range:			
Maximum (°C / °F)	55 / 131	55 / 131	55 / 131
Minimum (°C / °F)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop (CFM / M^3/Hr.)	24 / 41	24 / 41	24 / 41
External loop (CFM / M^3/Hr.)	80 / 136	80 / 136	80 / 136
Nominal Heating Watts	64	64	64
ELECTRICAL DATA			
Input DC Voltage			
Nominal (VDC)	**24**	**24**	**24**
Minimum (VDC)	18	18	18
Maximum (VDC)	27.6	27.6	27.6
Power Consumption 95 F / 95 F (35 C / 35 C) (W)	89	89	89
Rated Current (Amps) at 131 F/131 F (55 C/55 C)	4.4	4.4	4.4
Agency Approvals	UR, cUR Recognized CE	UR, cUR Recognized CE	UR, cUR Recognized CE
Power Input Description	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION			
UL Type / IP Rating	Type 12,3R,4,4X / IP 65	Type 12,3R,4 / IP 65	Type 12,3R,4,4X / IP 65
SOUND LEVEL			
At 1.5 Meters	65 dBA	65 dBA	65 dBA
UNIT CONSTRUCTION			
Heat Sink Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Shroud Material	N/A	Galvanized Steel	Stainless Steel
Shroud Finish	N/A	RAL 7035 light-gray, semi-textured powder-coat paint standard	No. 4 Brushed Finish
UNIT DIMENSIONS			
Height (in. / mm)	9.06/230	9.29/236	9.29/236
Width (in. / mm)	4.84/123	5.02/128	5.02/128
Depth (in. / mm)	6.91/176	6.94/176	6.94/176
Weight (lb. / kg)	6.00/2.70	7.80/3.60	7.80/3.60

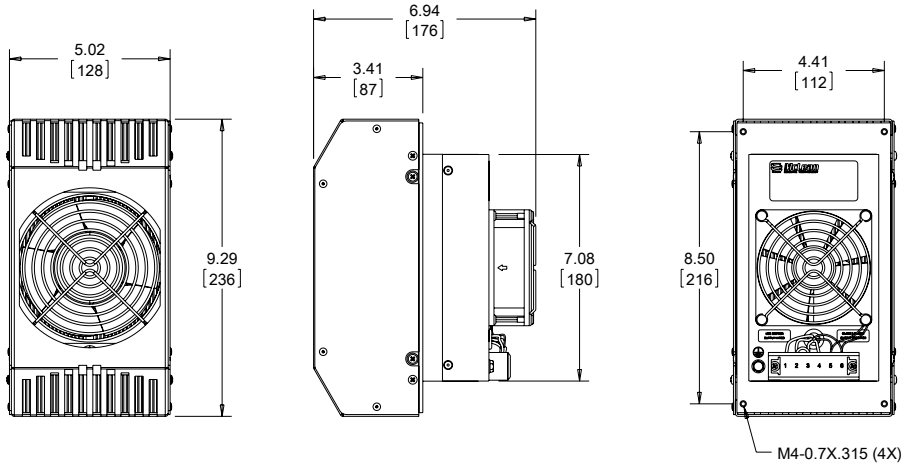
60 W 24 V

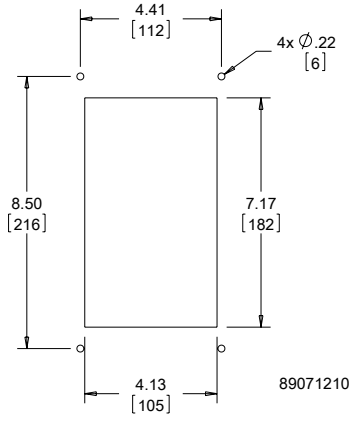




60 W 24 V







Cutout Dimensions

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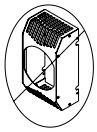
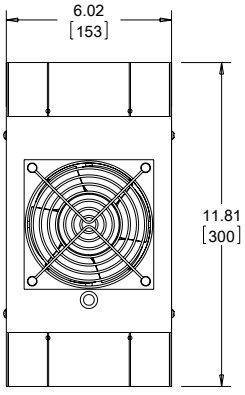
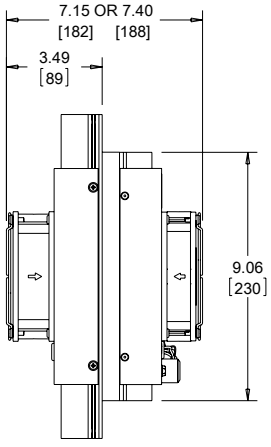
Performance Data **TE12 100W 341 BTU/Hr. (24/48 V)**

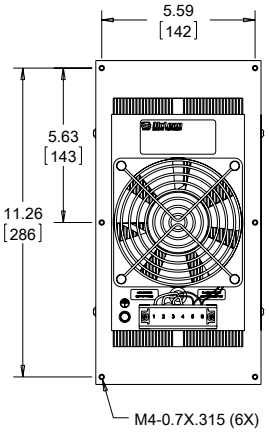
CATALOG NUMBERS					
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud	48V w/o shroud	48V w/ painted shroud
Catalog Number	TE121024020	TE121024010	TE121024011	TE121048020	TE121048010
COOLING PERFORMANCE					
BTU/Hr.	**321**	**321**	**321**	**321**	**321**
Watts	**94**	**94**	**94**	**94**	**94**
Operating Temperature Range:					
Maximum (°C / °F)	55 / 131	55 / 131	55 / 131	55 / 131	55 / 131
Minimum (°C / °F)	-40 /-40	-40 /-40	-40 /-40	-40 /-40	-40 /-40
Air Flow at 0 Static Pressure:					
Internal loop (CFM / M^3/Hr.)	62 / 105	62 / 105	62 / 105	62 / 105	62 / 105
External loop (CFM / M^3/Hr.)	86 / 146	86 / 146	86 / 146	86 / 146	86 / 146
Nominal Heating Watts	94	94	94	94	94
ELECTRICAL DATA					
Input DC Voltage					
Nominal (VDC)	**24**	**24**	**24**	**48**	**48**
Minimum (VDC)	18	18	18	40	40
Maximum (VDC)	27.6	27.6	27.6	56.7	56.7
Power Consumption 95 F / 95 F (35 C / 35 C) (W)	162	162	162	162	162
Rated Current (Amps) at 131 F/131 F (55 C/55 C)	8.5	8.5	8.5	4.4	4.4
Agency Approvals	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST
Power Input Description	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION					
UL Type / IP Rating	Type 12,3R,4,4X / IP 65	Type 12,3R,4 / IP 65	Type 12,3R,4,4X / IP 65	Type 12,3R,4,4X / IP 65	Type 12,3R,4 / IP 65
SOUND LEVEL					
At 1.5 Meters	68 dBA	68 dBA	68 dBA	68 dBA	68 dBA
UNIT CONSTRUCTION					
Heat Sink Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Shroud Material	N/A	Galvanized Steel	Stainless Steel	N/A	Galvanized Steel
Shroud Finish	N/A	RAL 7035 light-gray, semi-textured powder-coat paint standard	No. 4 Brushed Finish	N/A	RAL 7035 light-gray, semi-textured powder-coat paint standard
UNIT DIMENSIONS					
Height (in. / mm)	11.81/300	12.00/305	12.00/305	11.81/300	12.00/305
Width (in. / mm)	6.02/153	6.18/157	6.18/157	6.02/153	6.18/157
Depth (in. / mm)	7.40/188	7.43/189	7.43/189	7.40/188	7.43/189
Weight (lb. / kg)	8.50/3.90	11.00/5.00	11.00/5.00	8.50/3.90	11.00/5.00

100 W 24/48 V

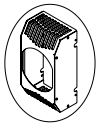


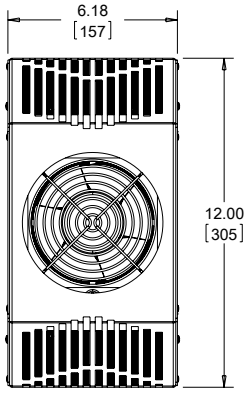


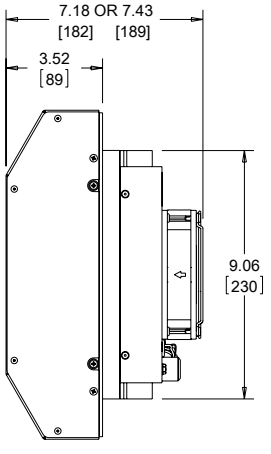


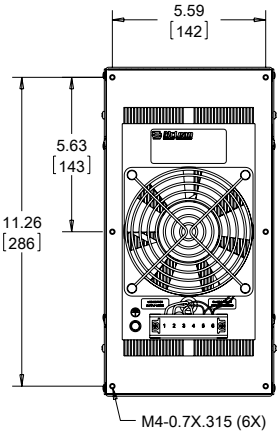


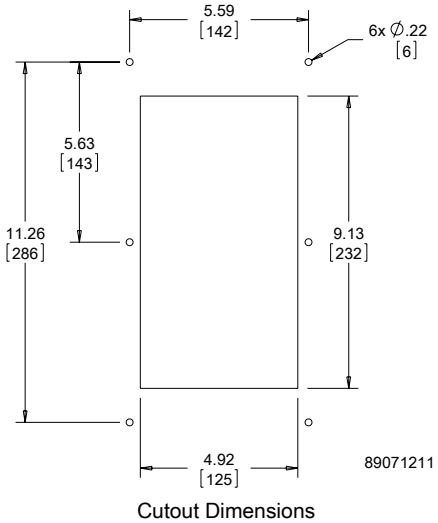
100 W 24/48 V











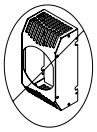
Cutout Dimensions

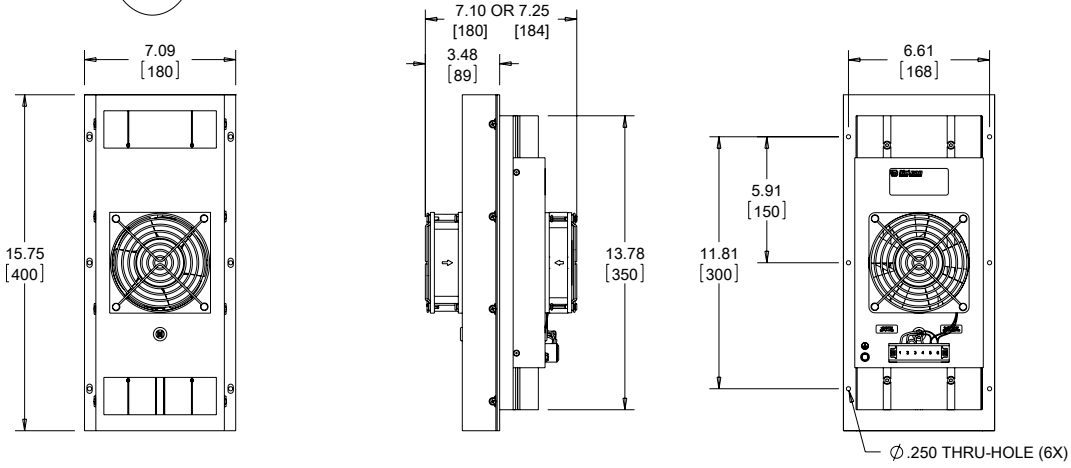
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **TE16 200W 682 BTU/Hr. (24/48 V)**

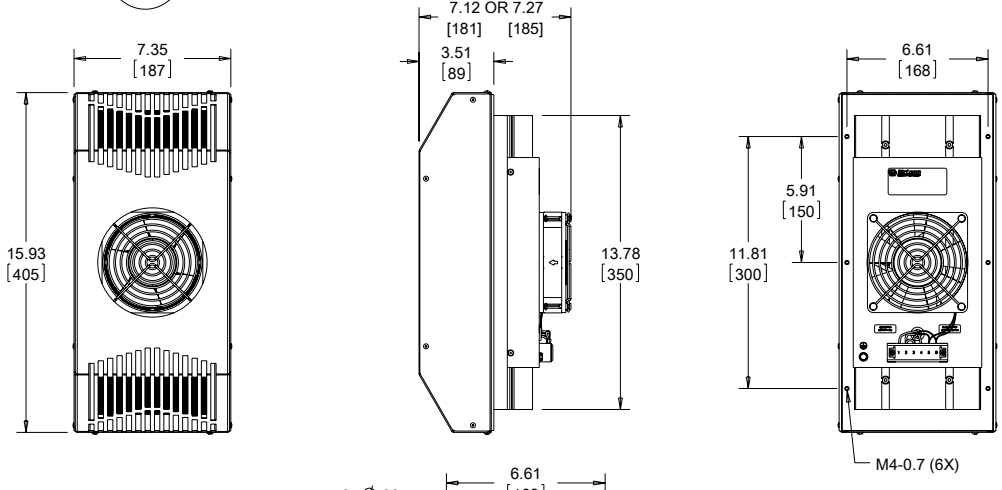
CATALOG NUMBERS					
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud	48V w/o shroud	48V w/ painted shroud
Catalog Number	TE162024020	TE162024010	TE162024011	TE162048020	TE162048010
COOLING PERFORMANCE					
BTU/Hr.	**567**	**567**	**567**	**567**	**567**
Watts	**166**	**166**	**166**	**166**	**166**
Operating Temperature Range:					
Maximum (°C / °F)	55 / 131	55 / 131	55 / 131	55 / 131	55 / 131
Minimum (°C / °F)	-40 /-40	-40 /-40	-40 /-40	-40 /-40	-40 /-40
Air Flow at 0 Static Pressure:					
Internal loop (CFM / M^3/Hr.)	62 / 105	62 / 105	62 / 105	62 / 105	62 / 105
External loop (CFM / M^3/Hr.)	86 / 146	86 / 146	86 / 146	86 / 146	86 / 146
Nominal Heating Watts	146	146	146	146	146
ELECTRICAL DATA					
Input DC Voltage					
Nominal (VDC)	**24**	**24**	**24**	**48**	**48**
Minimum (VDC)	18	18	18	40	40
Maximum (VDC)	27.6	27.6	27.6	56.7	56.7
Power Consumption 95 F / 95 F (35 C / 35 C) (W)	295	295	295	295	295
Rated Current (Amps) at 131 F/131 F (55 C/55 C)	14.7	14.7	14.7	7.6	7.6
Agency Approvals	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST	UR, cUR Recognized CE GOST
Power Input Description	Terminal Block	Terminal Block	Terminal Block	Terminal Block	Terminal Block
ENCLOSURE PROTECTION					
UL Type / IP Rating	Type 12,3R,4,4X / IP 65	Type 12,3R,4 / IP 65	Type 12,3R,4,4X / IP 65	Type 12,3R,4,4X / IP 65	Type 12,3R,4 / IP 65
SOUND LEVEL					
At 1.5 Meters	68 dBA	68 dBA	68 dBA	68 dBA	68 dBA
UNIT CONSTRUCTION					
Heat Sink Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Shroud Material	N/A	Galvanized Steel	Stainless Steel	N/A	Galvanized Steel
Shroud Finish	N/A	RAL 7035 light-gray, semi-textured powder-coat paint standard	No. 4 Brushed Finish	N/A	RAL 7035 light-gray, semi-textured powder-coat paint standard
UNIT DIMENSIONS					
Height (in. / mm)	15.75/400	15.93/405	15.93/405	15.75/400	15.93/405
Width (in. / mm)	7.09/180	7.35/187	7.35/187	7.09/180	7.35/187
Depth (in. / mm)	7.25/184	7.27/185	7.27/185	7.25/184	7.27/185
Weight (lb. / kg)	14.80/6.70	18.60/8.40	18.60/8.40	14.80/6.70	18.60/8.40

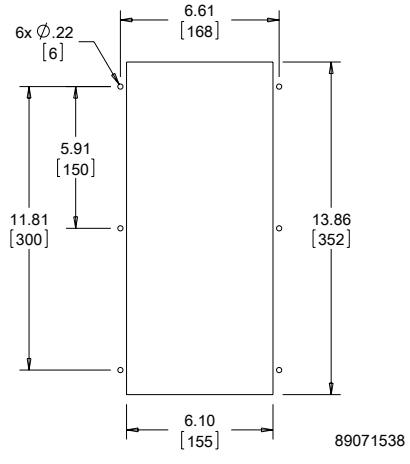
200 W 24/48 V





200 W 24/48 V

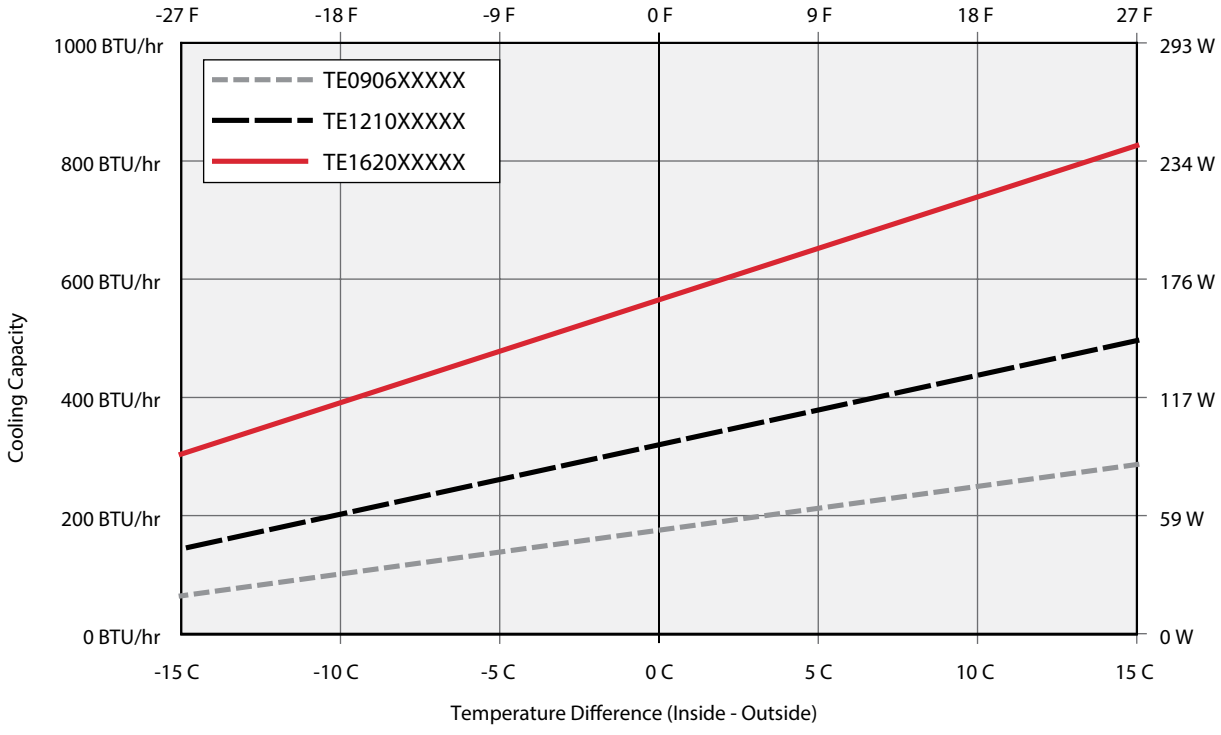




Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Cooling Capacity versus Temperature D at 35 C (95 F) Ambientifference



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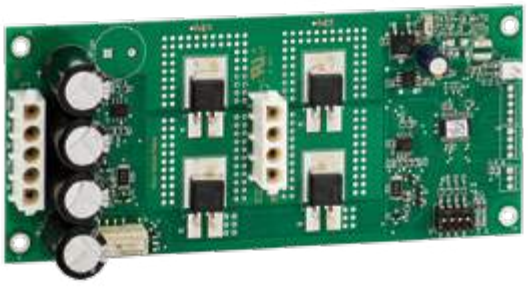
THERMOELECTRIC TEMPERATURE CONTROLLER



INDUSTRY STANDARDS

UL Recognized; File No. 60730

FEATURES

- Provides PWM regulation of cooling and heating output for TEC units
- Automatically switches between cooling and heating
- 4 cooling temperature set points range from 22.5 C to 35 C (35 C Factory Setting)
- 3 heating temperature set points range from -5 C to 15 C (15 C Factory Setting)
- Heating function can be easily disabled if desired
- On-board LEDS indicate low temp, high temp alarm, and overall system status
- Dry contact relay output provides for external alarm indication

Performance Data

CATALOG NUMBERS		
	TEC24VCNTLRN	TEC48VCNTLRN
ELECTRICAL DATA		
Rated Voltage (VDC)	24	48
Operating Range (VDC)	18 to 30	40 to 60
Current @ Rated Voltage (Amps)	17.2	8.6
Operating Temperature Range		
Maximum (°F/°C)	131 / 55	
Minimum (°F/°C)	-40 / -40	
Temperature Accuracy (°F/°C)	± 3.6 / 2.0	
Alarm Contact Rating	1) 0.5 A max @ 24 VDC - from same source of power as unit, SELV, non-power limited (greater than 15 W); OR 2) 0.5 A max @ 24 VAC - from, SELV, Class 2 safety isolating transformer.	1) 0.5 A max @ 48 VDC - from same source of power as unit, SELV, non-power limited (greater than 15 W); OR 2) 0.5 A max @ 24 VAC - from, SELV, Class 2 safety isolating transformer.
UNIT DIMENSIONS		
PCB Dimensions		
Height (in/mm)	1.20 / 30	
Width (in/mm)	2.88 / 73	
Length (in/mm)	6.50 / 165	
Weight (lb./kg)	0.21 / 0.10	
Mounting Bracket Dimensions		
Height (in/mm)	0.50 / 13	
Width (in/mm)	3.19 / 91	
Length (in/mm)	6.50 / 165	
Weight (lb./kg)	0.29 / 0.13	
Accessories		
Input Supply Harness	60-in. (1525mm) long Supply Harness Catalog Number TECSUPPLYHARNESS	
Board to TEC Harness	36-in. (915mm) long Control Harness Catalog Number TECCONTROLHARNESS	

THERMOELECTRIC CONDENSATE MANAGER

INDUSTRY STANDARDS

Maintains UL/cUL Type 3R, 12, 4 and 4X rating when properly installed

FEATURES

- Includes all required hardware and vent drain
- Maintains the integrity of Type 4 or Type 4X enclosure
- Drains condensation to bottom of enclosure via vent drain (vent drain included with package)
- Utilizes existing mounting holes and fasteners of thermoelectric cooler that requires no additional mounting

FINISH

- Pan Material Galvanized steel polyester powder coat paint with RAL 7035
- Vent drain material options include stainless steel or non-metallic

Performance Data

CATALOG NUMBERS						
	TEC60WCMSS4	TEC60WCMNM	TEC100WCMSS4	TEC100WCMNM	TEC200WCMSS4	TEC200WCMNM
Fits TEC Unit Model	All TE09	All TE09	All TE12	All TE12	All TE16	All TE16
UNIT CONSTRUCTION						
Pan Material	Galvanized Steel					
Pan Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard					
Vent Drain Material	Stainless Steel	Non-Metallic	Stainless Steel	Non-Metallic	Stainless Steel	Non-Metallic
UNIT DIMENSIONS						
Height (in./mm)	.75/19	.75/19	.75/19	.75/19	.75/19	.75/19
Width (in./mm)	5.50/140	5.50/140	6.25/159	6.25/159	7.44/189	7.44/189
Depth (in./mm)	2.50/64	2.50/64	2.50/64	2.50/64	2.50/64	2.50/64

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VORTEX COOLERS INDOOR/OUTDOOR

INDUSTRY STANDARDS

NEMA Type 4 Models:
Maintains UL/cUL Type 4 when properly installed on a UL/cUL Type 4 enclosure.

UL508 Listed; Type 4; File No. E187045

NEMA Type 4X Models:
Maintains UL/cUL Type 4X when properly installed on a UL/cUL Type 4X enclosure.

UL508 Listed; Type 4X; File No. E187045

NEMA Type 12 Models:
Maintains UL/cUL Type 12 when properly installed on a UL/cUL Type 12 enclosure.

UL508 Listed; Type 12; File No. E187045

APPLICATION

Powered by compressed air, Vortex Cooling Systems generate chilled air to cool small enclosures without refrigerants or moving parts. These systems are exceptionally reliable and low maintenance, even in the harshest and dirtiest environments.

FEATURES

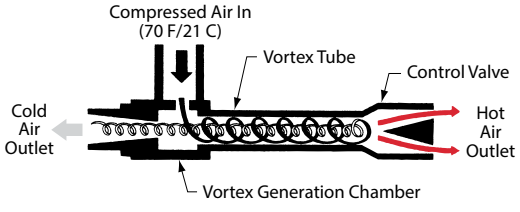
- Five-micron airline filter, 115 V solenoid
- Thermostat
- Ducting kit
- Cooling capacities to 2500 BTU/Hr. (733 W)

FINISH

Brushed satin aluminum or stainless steel

ACCESSORIES

Vortex Cooling Oil Filters, page 1160



Vortex Tube Air Flow Schematic

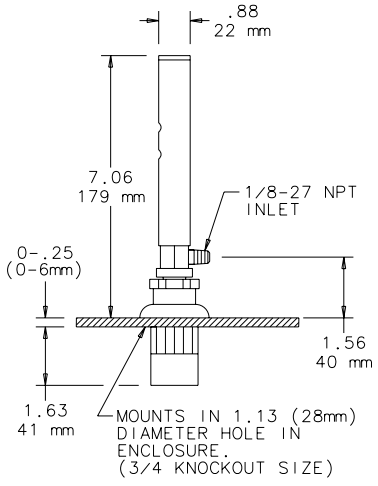
Performance Data **VC Series NEMA Type 12**

CATALOG NUMBERS				
Aluminum	VC0416012	VC0916012	VC1516012	VC2516012
COOLING PERFORMANCE				
Cooling Capacity (BTU/Hr.)	**400**	**900**	**1500**	**2500**
Cooling Capacity (Watts)	**117**	**264**	**440**	**733**
Compressed Air Consumption (SCFM)	8	15	25	35
Compressed Air Consumption (L^3/M)	227	425	708	991
SOUND LEVEL				
Noise Level (dB)	69	80	83	90
ENCLOSURE PROTECTION				
UL Type	Type 12			
ELECTRICAL DATA				
Rated Voltage	**115**	**115**	**115**	**115**
Frequency (Hz)	50/60	50/60	50/60	50/60
UNIT DIMENSIONS				
Weight (lb./kg)	5/2.27	6/2.72	6/2.72	6/2.72

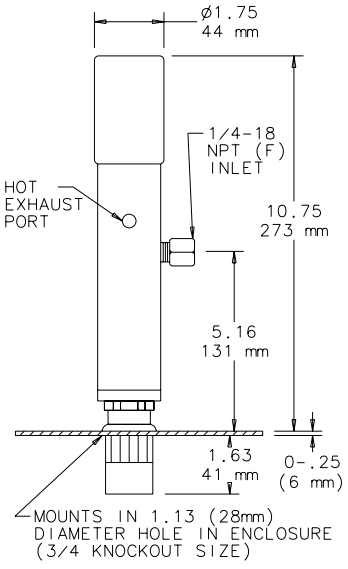
Performance Data **VC Series NEMA Type 4, 4X**

CATALOG NUMBERS			
Aluminum	VC0916004	VC1716004	VC2516004
Stainless Steel	VC091604X	VC171604X	VC251604X
COOLING PERFORMANCE			
Cooling Capacity (BTU/Hr.)	**900**	**1700**	**2500**
Cooling Capacity (Watts)	**264**	**498**	**733**
Compressed Air Consumption (SCFM)	15	25	35
Compressed Air Consumption (L^3/M)	425	708	991
SOUND LEVEL			
Noise Level (dB)	83	86	90
ENCLOSURE PROTECTION			
UL Type	Type 4, 4X		
ELECTRICAL DATA			
Rated Voltage	**115**	**115**	**115**
Frequency (Hz)	50/60	50/60	50/60
UNIT DIMENSIONS			
Weight (lb./kg)	6/2.72	6/2.72	6/2.72

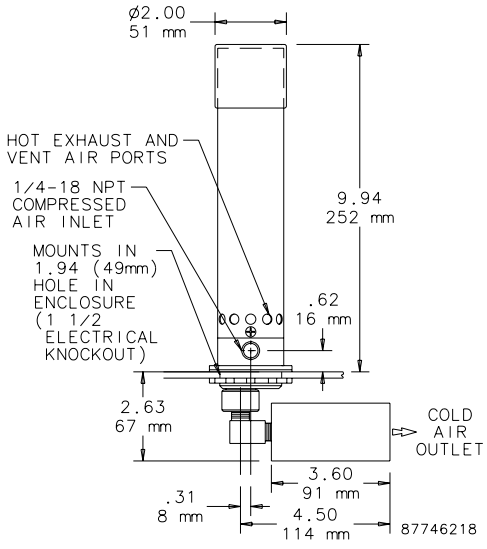
NEMA Type 12 - 400 BTU/Hr.



NEMA Type 12 -
900, 1500, 2500 BTU/Hr.

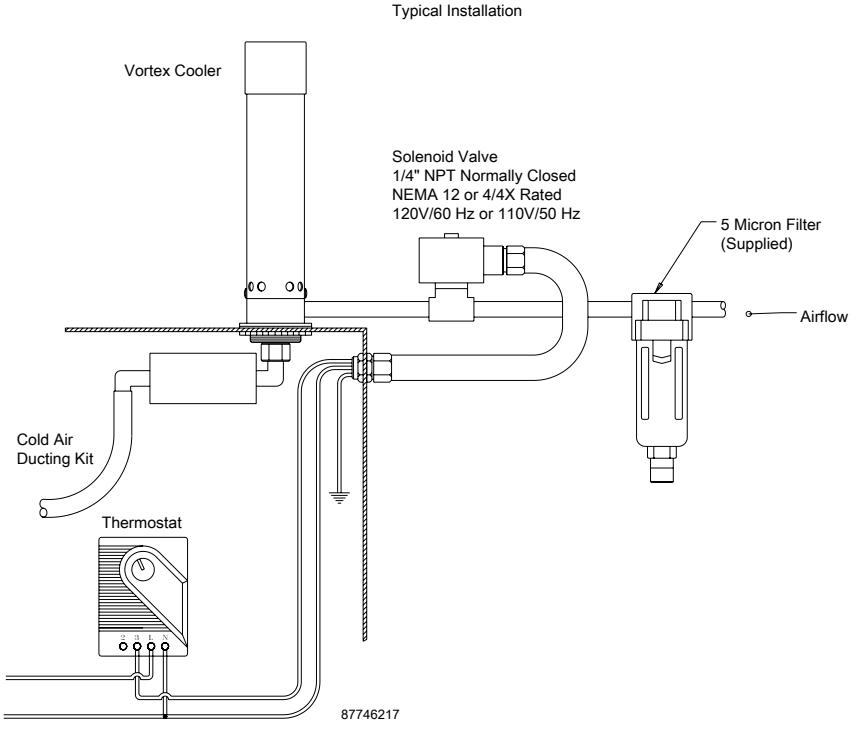


NEMA Type 4X
900, 1700, 2500 BTU/Hr.



ENCLOSURE COOLER MUST REMAIN
IN A VERTICAL ORIENTATION TO
MAINTAIN NEMA 4/4X RATINGS.

Typical Installation



QUIET VORTEX A/C ENCLOSURE COOLERS, TYPE 4/4X/12

VA09, VA15, VA25
NEMA Type 4/4X

VA09, VA15, VA25
NEMA Type 12

VA50
NEMA Type 4/4X

VA50
NEMA Type 12

INDUSTRY STANDARDS

NEMA Type 4,4X Models:

Maintains UL/cUL Type 4, 4X when properly installed on a UL/cUL Type 4, 4X enclosure.
UL508 Listed; Type 4, 4X; File No. E249700

IP66

NEMA Type 12 Models:

Maintains UL/cUL Type 12 when properly installed on a UL/cUL Type 12 enclosure.
UL508 Listed; Type 12; File No. E249700

IP54

APPLICATION

Vortex A/C Enclosure Coolers keep enclosures cool, clean and protect even in the harshest environments. Offering flexible installation, these enclosure coolers are ideal in space-restrictive areas where compressed air is readily available. With almost no moving parts, these enclosure coolers are highly reliable and virtually maintenance free.

FEATURES

- Mechanical thermostat reduces energy consumption
- Top, side, and front mount allows for versatile installation in confined areas
- Quieter operation with noise level of 60-75 dB
- Cooling capacities up to 5000 BTU/Hr. (1465 W)
- Supplied with five-micron, automatic drain compressed air filter, cold ducting kit, and cold air muffler
- Operates in environments up to 175 F (80 C)

FINISH

- NEMA Type 4,4X models: Polycarbonate and stainless steel exterior; aluminum and brass internal components
- NEMA Type 12 models: Polycarbonate and aluminum exterior; aluminum and brass internal components

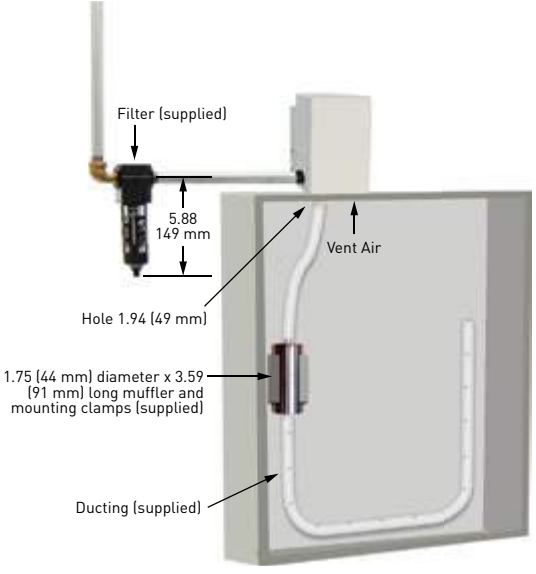
ACCESSORIES

Vortex Cooling Air Filters, page 1160
Vortex Cooling Oil Filters, page 1160
Vortex Cooling Generator Kits, page 1160
Vortex Cooling VA Series Air Ducting, page 1160

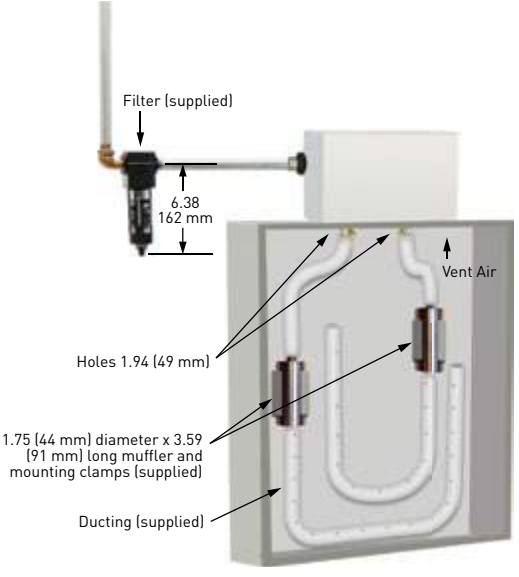
Performance Data **VA Series NEMA Type 4, 4X**

CATALOG NUMBERS	VA091604X	VA151604X	VA251604X	VA501604X
COOLING PERFORMANCE				
Cooling Capacity (BTU/Hr.)	**900**	**1500**	**2500**	**5000**
Cooling Capacity (Watts)	**264**	**440**	**733**	**1465**
Compressed Air Consumption (SCFM)	15	25	35	70
Compressed Air Consumption (SLPM)	425	708	991	1982
SOUND LEVEL				
Noise Level (dB)	60	66	72	75
ENCLOSURE PROTECTION				
UL Type	Type 4, 4X			
IP	IP66			
UNIT DIMENSIONS				
Height (in./mm)	8.00/203	8.00/203	8.00/203	6.44/164
Width (in./mm)	4.75/121	4.75/121	4.75/121	9.44/240
Depth (in./mm)	5.38/137	5.38/137	5.38/137	5.56/141
Weight (lb./kg)	6.3/2.86	6.3/2.86	6.4/2.90	11.0/4.99

VA09, VA15, VA25, Type 4/4X



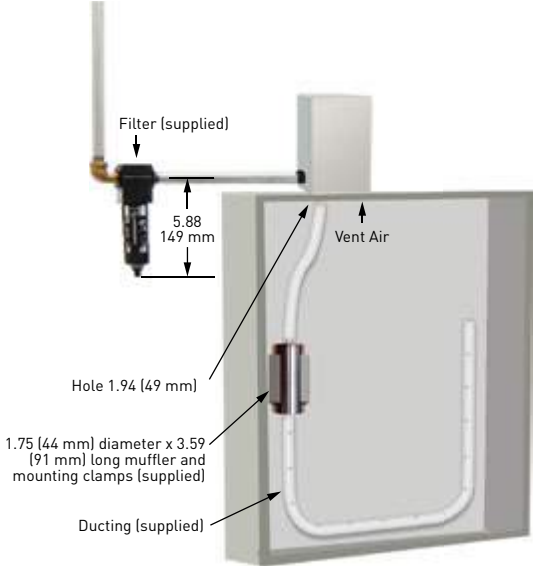
VA50, Type 4/4X



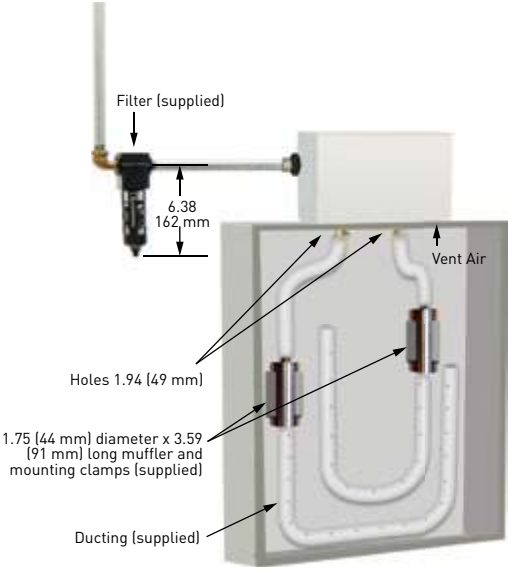
Performance Data **VA Series NEMA Type 12**

CATALOG NUMBERS	VA0916012	VA1516012	VA2516012	VA5016012
COOLING PERFORMANCE				
Cooling Capacity (BTU/Hr.)	**900**	**1500**	**2500**	**5000**
Cooling Capacity (Watts)	**264**	**440**	**733**	**1465**
Compressed Air Consumption (SCFM)	15	25	35	70
Compressed Air Consumption (SLPM)	425	708	991	1982
SOUND LEVEL				
Noise Level (dB)	60	66	72	75
ENCLOSURE PROTECTION				
UL Type		Type 12		
IP		IP54		
UNIT DIMENSIONS				
Height (in./mm)	8.00/203	8.00/203	8.00/203	6.44/164
Width (in./mm)	4.75/121	4.75/121	4.75/121	9.44/240
Depth (in./mm)	3.56/90	3.56/90	3.56/90	4.25/108
Weight (lb./kg)	4.9/2.22	4.9/2.22	5.0/2.27	7.7/3.50

VA09, VA15, VA25, Type 12



VA50, Type 12



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VORTEX A/C ENCLOSURE COOLERS, HAZARDOUS LOCATION

VHL09, VHL15, VHL25

VHL50

APPLICATION

Hazardous Location Vortex A/C Enclosure Coolers keep enclosures cool, clean and protect even in hazardous environments. These systems are ideal for applications where compressed air is available in hazardous locations. With almost no moving parts, these systems are highly reliable and virtually maintenance free.

FEATURES

- Approved for a 175 F (80 C) maximum ambient temperature in Class I, Div. 2; Class II, Div. 2; and Class III areas
- Mechanical thermostat reduces energy consumption
- Top, side, and front mount allows for versatile installation in confined areas
- Quieter operation with noise level of 60-75 dB
- Supplied with five-micron, automatic drain compressed air filter, cold ducting kit, cold air muffler, and check valve
- Cooling capacities up to 5000 BTU/Hr. (1465 W)

FINISH

- Polycarbonate and stainless steel exterior with aluminum and brass internal components

ACCESSORIES

Vortex Cooling Air Filters, page 1160
Vortex Cooling Oil Filters, page 1160
Vortex Cooling Generator Kits, page 1160
Vortex Cooling VHL Series Air Ducting, page 1160

INDUSTRY STANDARDS

Hazardous Location Models:

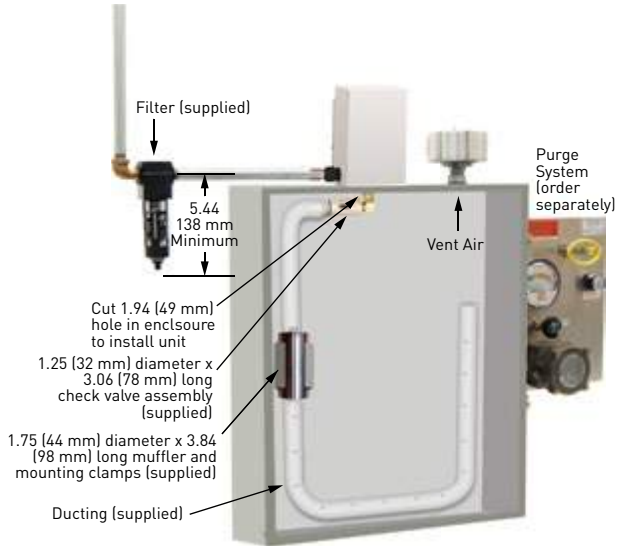
UL Classified for Class 1, Div. 2, Groups A through D; Class II, Div. 2, Groups F & G; and Class III locations (when used with an approved purge/pressurization system); File No. E364567. Maintains UL/cUL Type 4, 4X when properly installed on a UL/cUL Type 4, 4X enclosure.

10

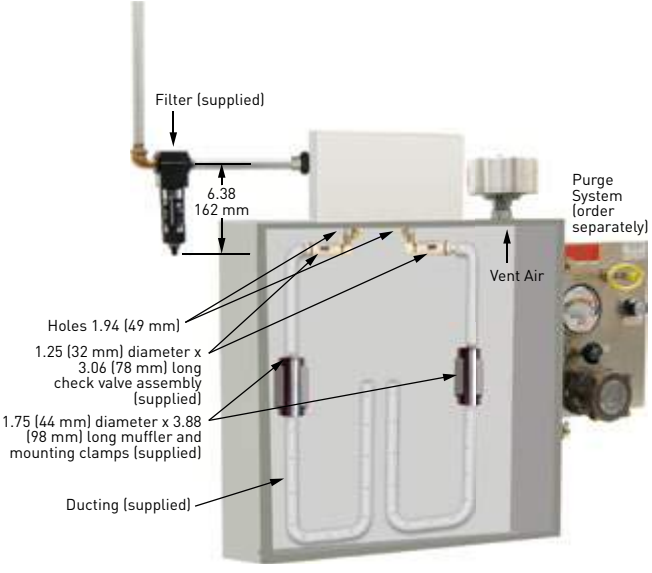
Performance Data **VHL Series for Hazardous Locations**

CATALOG NUMBERS	VHL09160	VHL15160	VHL25160	VHL50160
COOLING PERFORMANCE				
Cooling Capacity (BTU/Hr.)	900	1500	2500	5000
Cooling Capacity (Watts)	264	440	733	1465
Compressed Air Consumption (SCFM)	15	25	35	70
Compressed Air Consumption (SLPM)	425	708	991	1982
SOUND LEVEL				
Noise Level (dB)	60	66	72	75
ENCLOSURE PROTECTION				
UL Classified	Class 1, Div. 2, Groups A-D; Class II, Div. 2, Groups F & G, Class III			
UNIT DIMENSIONS				
Height (in./mm)	8.00/203	8.00/203	8.00/203	6.44/164
Width (in./mm)	4.75/121	4.75/121	4.75/121	9.44/240
Depth (in./mm)	5.38/137	5.38/137	5.38/137	5.56/141
Weight (lb./kg)	6.70/3.04	6.7/3.04	6.8/3.08	11.4/5.17

VHL09, VHL15, VHL25 HAZLOC



VHL50 HAZLOC



VORTEX COOLING AIR FILTERS

- 5-micron compressed air filter with automatic condensate drain
- Polycarbonate bowl with metal bowl guard
- 125 F (52 C) maximum temperature
- 150 psig maximum pressure

CATALOG NUMBER	Use with Model Capacity	SCFM	Ports
VAAF15	Up to 1500 BTU/Hr.	25	3/8 NPT
VAAF25	Up to 2500 BTU/Hr.	50	3/8 NPT
VAAF50	Up to 5000 BTU/Hr.	150	3/4 NPT

VORTEX COOLING OIL FILTERS

- .01 micron oil removal filter with automatic condensate drain
- Polycarbonate bowl with metal bowl guard
- 125 F (52 C) maximum temperature
- 150 psig maximum pressure

CATALOG NUMBER	Use with Model Capacity	SCFM	Ports
VCOF17	Up to 1500 BTU/Hr.	25	3/8 NPT
VCOF25	Up to 5000 BTU/Hr.	70	1/2 NPT

VORTEX COOLING GENERATOR KITS

- Vortex accessory generator kits
- Nylon generator and bushing

CATALOG NUMBER	Use with Model Capacity	SCFM	Quantity
VAGK09	900 BTU/Hr.	11	5
VAGK15	1500 BTU/Hr.	15	5
VAGK25	2500 and 5000 BTU/Hr.	25	5

VORTEX COOLING VA SERIES AIR DUCTING

Vortex VA series accessory cold air ducting kit evenly distributes compressed air.

CATALOG NUMBER	Use with Model Capacity
VADK124X	All NEMA 12, 4, 4X models

VORTEX COOLING VHL SERIES AIR DUCTING

Vortex VHL series accessory cold air ducting kit evenly distributes compressed air.

CATALOG NUMBER	Use with Model Capacity
VHLDK	All Hazardous Location models

Notes

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DACS OUTDOOR

INDUSTRY STANDARDS

UL Recognized

CE
Telcordia GR-487 capable

APPLICATION

- Outdoor telecommunications equipment
- Industrial automation
- Outdoor kiosk
- Outdoor displays
- OSP applications

FEATURES

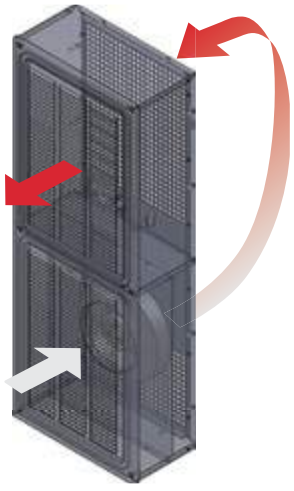
- Customizable solutions to meet any customer need
- Two models utilizing Hydrophobic GORE® filter
- Two models with MERV 12, pleated filter
- Standard power input: 48 VDC
- UL Listed to save time and money with agency approvals
- Power Cord included
- Easy to replace filters
- Broad operating temperature range -40 C to 55 C
- Every unit functionally tested before shipping
- Hydrophobic GORE® filter protects against salt and other corrosive agents
- Controller provides soft start and current limiting at start up
- Vibration resistant to withstand over-the-ground transportation of the telecom system
- Variable speed blowers standard on units for quiet running
- Controller provides fan speed control and temperature alarm

FINISH

- Standard Finish: Galvanized steel with RAL 7035 light-gray semi-textured powder coat paint

OPTIONS

- Custom Material: Aluminum, Stainless Steel, Mild Steel
- Custom Finish: Paint Color
- Custom Power Input: 24 VDC, 115 VAC
- Custom Sizes: Height 29 in. (737 mm) to 56 in. (1422 mm)



NOTES

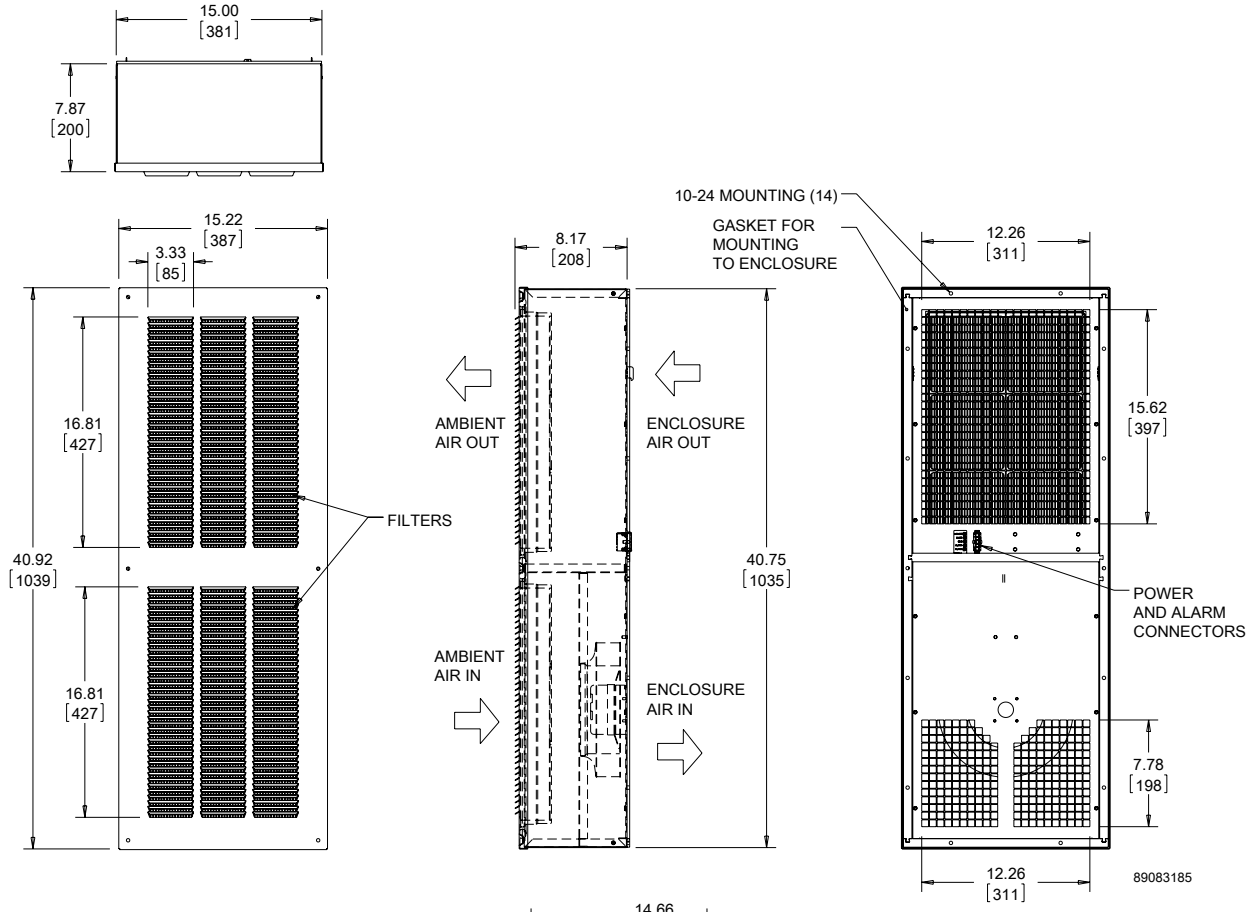
Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

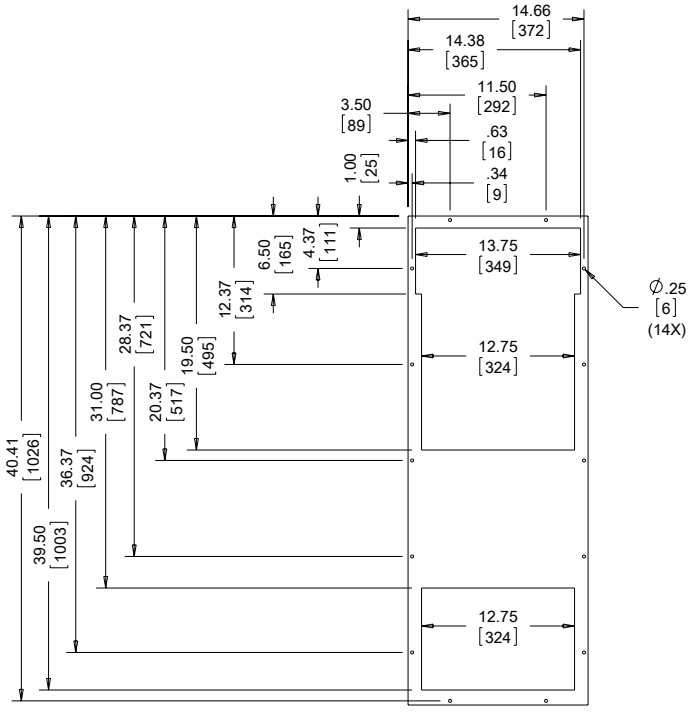
GORE® is a registered trademark of W.L. Gore & Associates, Inc.

Performance Data **DACS**

CATALOG NUMBERS	DCG4108548100	DCG2904248100	DCT5615048100	DCT3809448100
COOLING PERFORMANCE				
Nominal:				
Watts/°F	**85**	**42**	50	**94**
Watts/°C	**152**	**75**	**270**	**170**
Operating Temperature Range:				
Maximum (°F/°C)	131/55	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Air Flow at 0 Static Pressure: (CFM/ m^3/hr.)	265/450	130/221	470/799	300/510
ELECTRICAL DATA				
Rated Voltage (VDC)		**48**		
Operating Range (VDC)		40-60		
Max. Power Consumption (Watts)	159	159	192	173
Max. Nominal Current (Amps)	3.3	3.3	4.0	3.6
Agency Approvals		UL Recognized, CE		
ENCLOSURE PROTECTION				
UL Type		Type 3R		
CONTROLLER				
Description		Fan speed control and temperature alarm		
Factory Thermostat Setting (°F/°C)		104/40		
SOUND LEVEL				
At 1.5 Meters - Full Speed (dBA)	67.1	68.1	65.0	63.4
UNIT CONSTRUCTION				
Material		Galvanized Steel		
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard		
Filter Type		**Hydrophobic GORE®**	**Pleated Filter Merv 12**	
UNIT DIMENSIONS				
Height (in./mm)	40.75/1035	28.75/730	56/1422	38/965
Width (in./mm)	15/381	12/305	20/508	16/406
Depth (in./mm)	7.88/200	7.12/181	7/178	6/152
Weight (lb./kg)	50/22.7	40/18.1	65/29.5	38/17.2

DCG4108548100





CUTOUT DIMENSIONS

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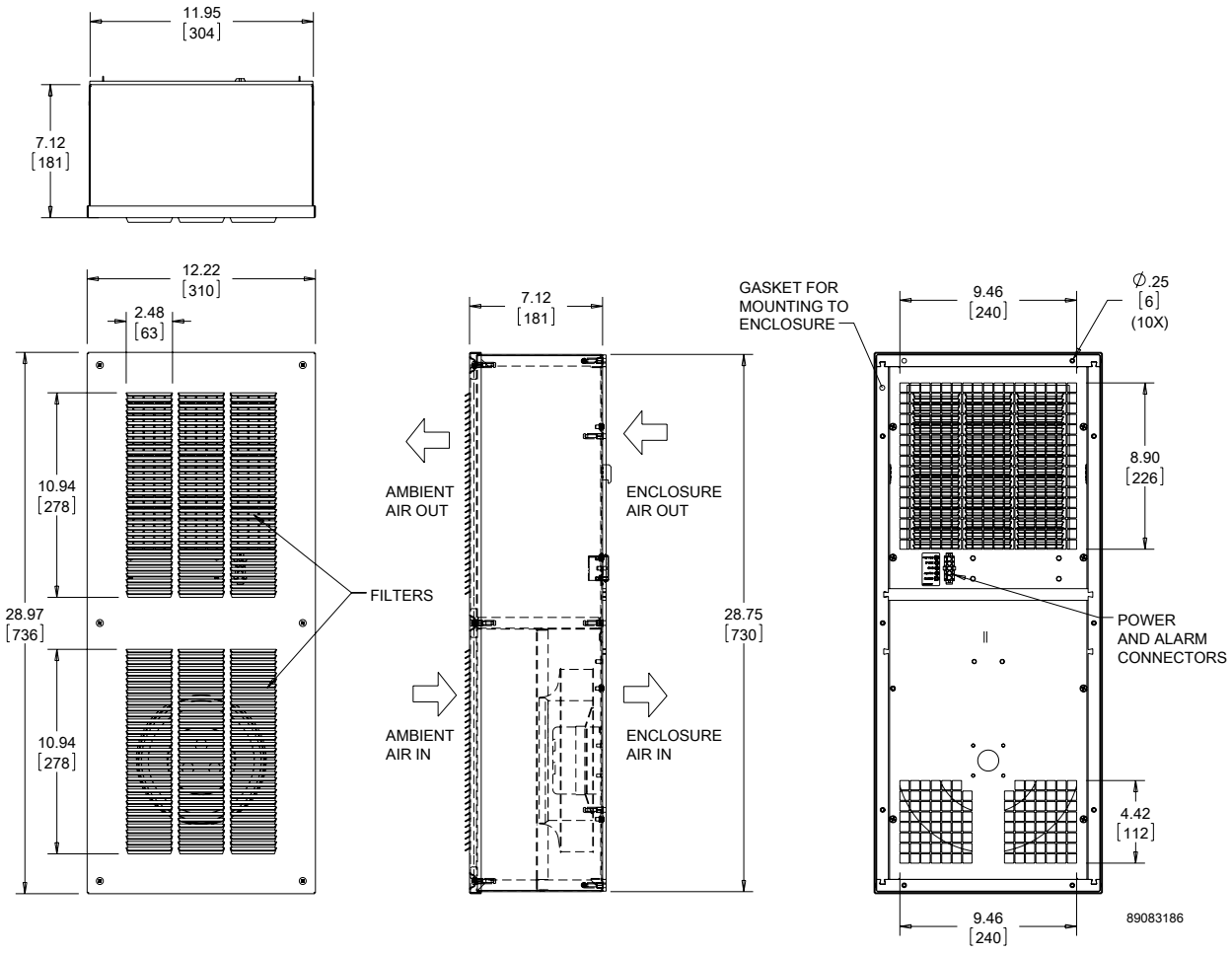
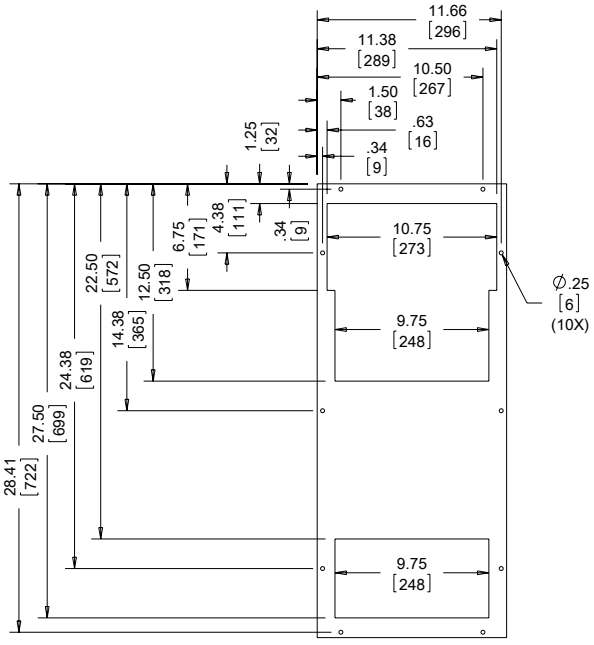
DCG2904248100





CUTOUT DIMENSIONS

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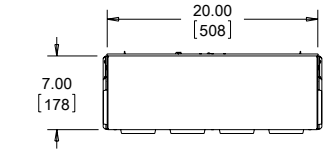
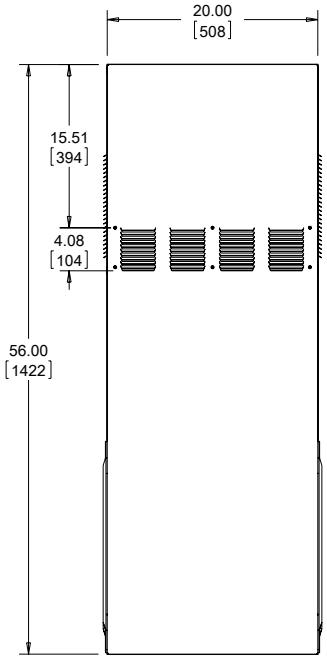
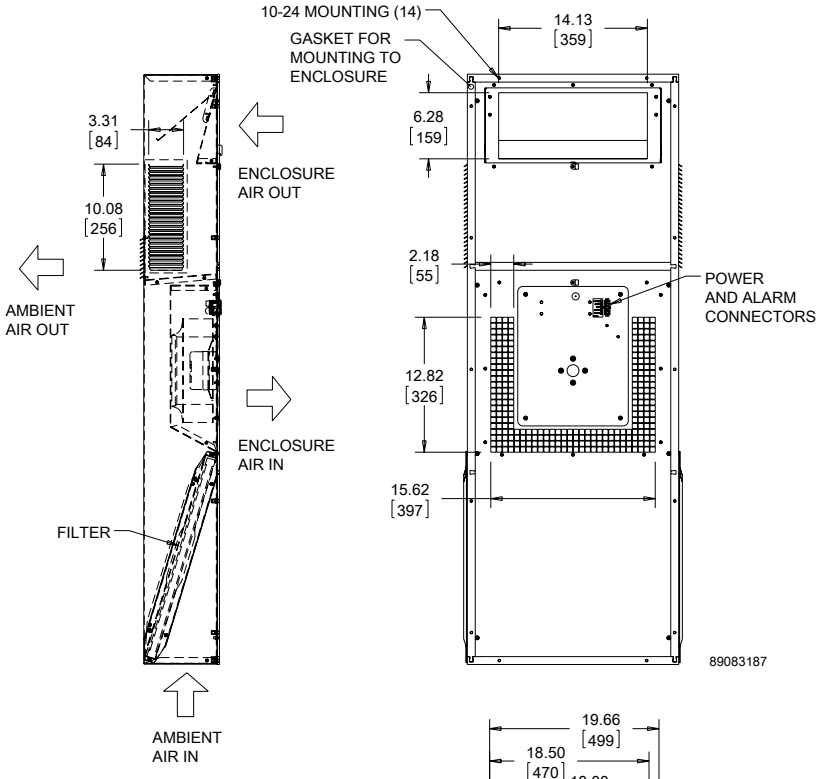
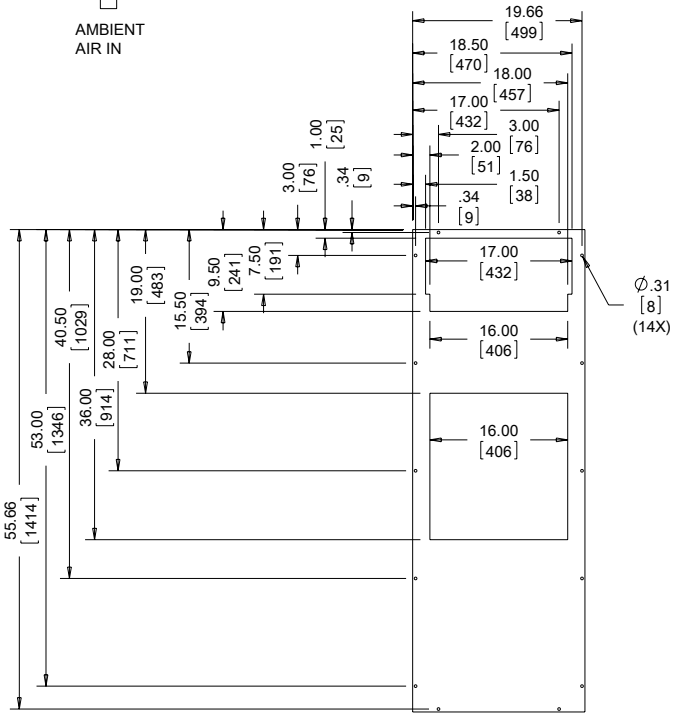




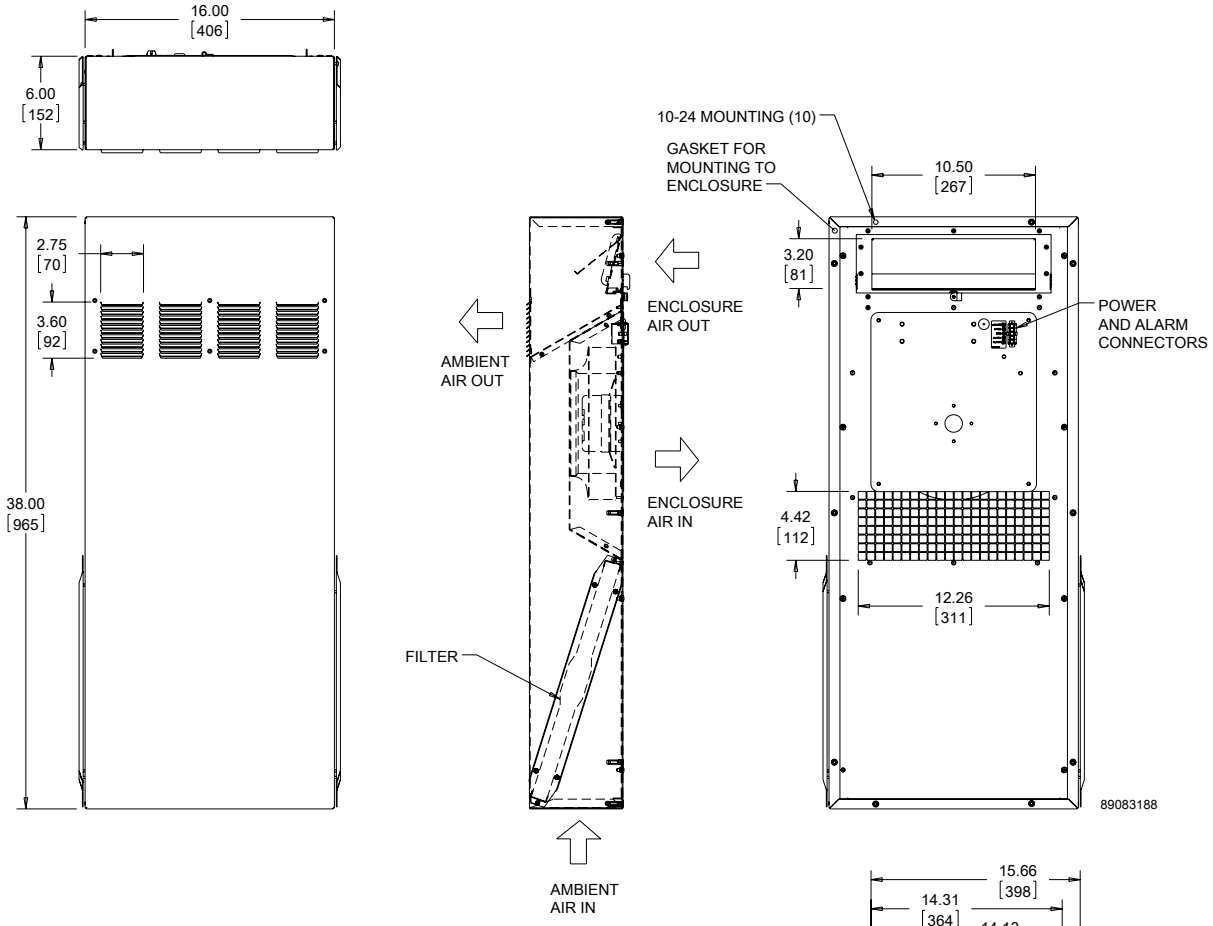


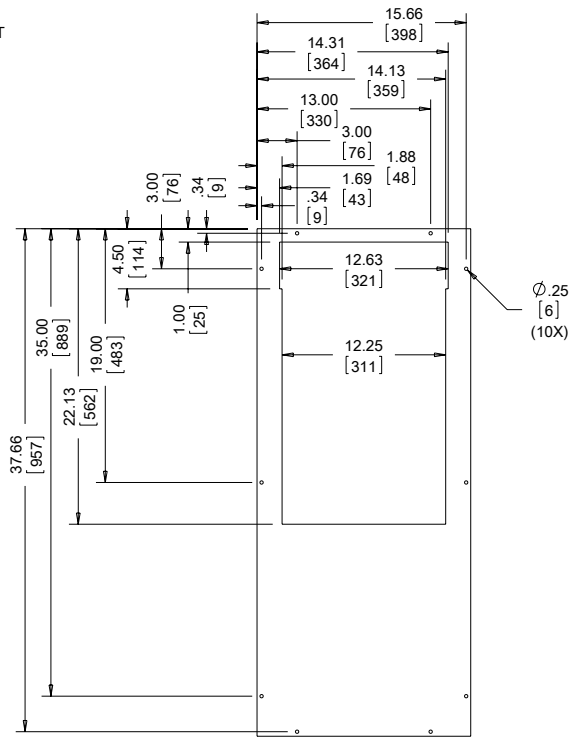


CUTOUT DIMENSIONS

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

DCT3809448100





CUTOUT DIMENSIONS

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HF SIDE-MOUNT FILTER FANS

HF04
21 CFM (36 m^3/Hr.)

HF05
35 CFM (59 m^3/Hr.)

HF09
70 CFM (119 m^3/Hr.)

HF10
159 CFM (270 m^3/Hr.)

HF13
395 CFM (671 m^3/Hr.)
484 CFM (822 m^3/Hr.)

INDUSTRY STANDARDS

UL/cUL Listed; File No. E482010

CE
EAC
Type 12, IP54 standard (on all models except HF13)
Type 12, IP 55 optional (on all models except HF04)

APPLICATION

- Industrial automation
- Automotive assembly
- Package handling equipment
- Food and beverage process controls
- Wind energy systems

FEATURES

- Click-fit design quickly installs into enclosure wall; no tools or screws required
- Opens with the flick of a finger for easy filter replacement
- Enclosure side wall mounting
- Reverse airflow option on HF13 models available to push/pull air through higher static pressure
- Standard rope gasket provides proper seal to the enclosure
- Similar cut-out sizes as other filter fan manufacturers
- Terminal block connections
- Optional thermostat available to save energy and extend service life
- Hinged grille remains attached after opening

SPECIFICATIONS

- Size range from 4 in. (102 mm) to 13 in. (325 mm)
- Free air flow from 21 CFM (36 m^3/hr.) to 484 CFM (822 m^3/hr.)
- Service life hours from 40,000 to 100,000 hours
- Operating temperature range fo -4 F/-20 C to 149 F/65 C

FINISH

- RAL 7035 light-gray, UV-resistant plastic standard
- RAL 9011 black, UV-resistant plastic

NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HF04 21 CFM (36 m³/hr.) Side-Mount Filter Fans**

ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**24***	**48***
Frequency (Hz)	50/60	50/60	—	—
Nominal Current Maximum (Amps)	.10	.07	.14	.06
Power Consumption Maximum (Watts)	8.5/7.0	9.5/8.0	3.4	2.9
Power Connection		Terminal Block		
TYPE 12 / IP54 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF0416414**	**HF0426414**	**HF0424414**	**HF0448414**
RAL 9011 Black:				
Catalog Number	**HF0416413**	**HF0426413**	**HF0424413**	**HF0448413**
Free Airflow (CFM / m³/hr.)	21/36	21/36	21/36	21/36
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	12/20	12/20	12/20	12/20
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	15/25	15/25	15/25	15/25
FILTER FAN UNIT CONSTRUCTION				
Fan RPM	3250	3250	2100	3300
Sound Pressure (dBA at 50/60 Hz)	34/36	34/36	34/36	34/36
Operating Temperature Range:				
Maximum (°F / °C)	131/55	131/55	149/65	149/65
Minimum (°F / °C)	14/-10	14/-10	-4/-20	-4/-20
Service Life (hours) at 40 C	61,000	61,000	51,000	70,000
Unit Dimensions - H x W x D (in. / mm)		4.42 x 4.44 x 3.65 / 112 x 113 x 93		
Cutout Dimensions - H x W (in. / mm)		3.62 x 3.62/92 x 92		
Weight (lb. / kg)		.91/.40		
TYPE 12 / IP54 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG0400404**	**HG0400404**	**HG0400404**	**HG0400404**
RAL 9011 Black:				
Catalog Number	**HG0400403**	**HG0400403**	**HG0400403**	**HG0400403**
ACCESSORIES				
Replacement Filters:				
Type 12 / IP54 Catalog Number	**89134423R**	**89134423R**	**89134423R**	**89134423R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**	**—**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**	**—**	**—**

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

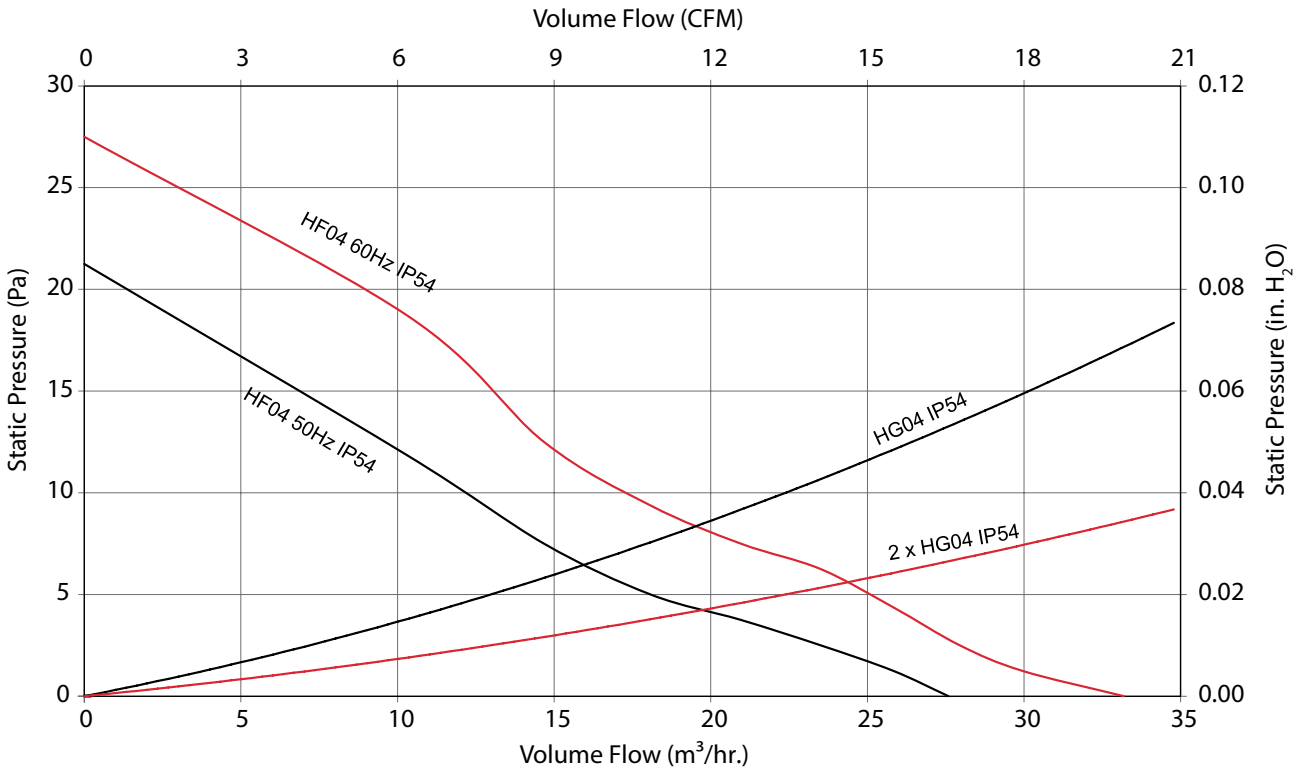
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

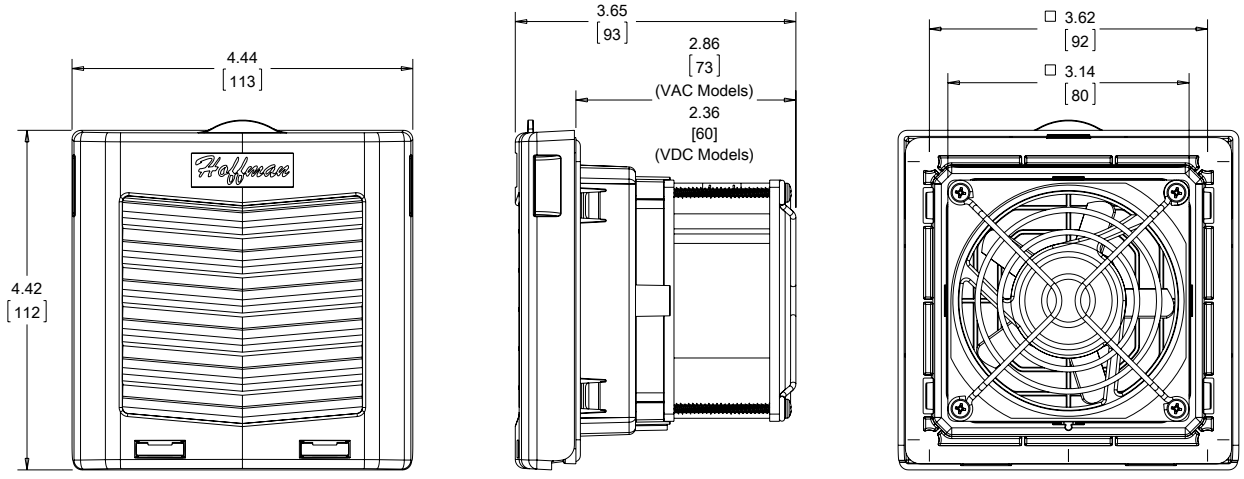
* This indicates a DC Voltage.

Performance Curves for HF04 Models 21 CFM (36 m^3/hr.) Side-Mount Filter Fans

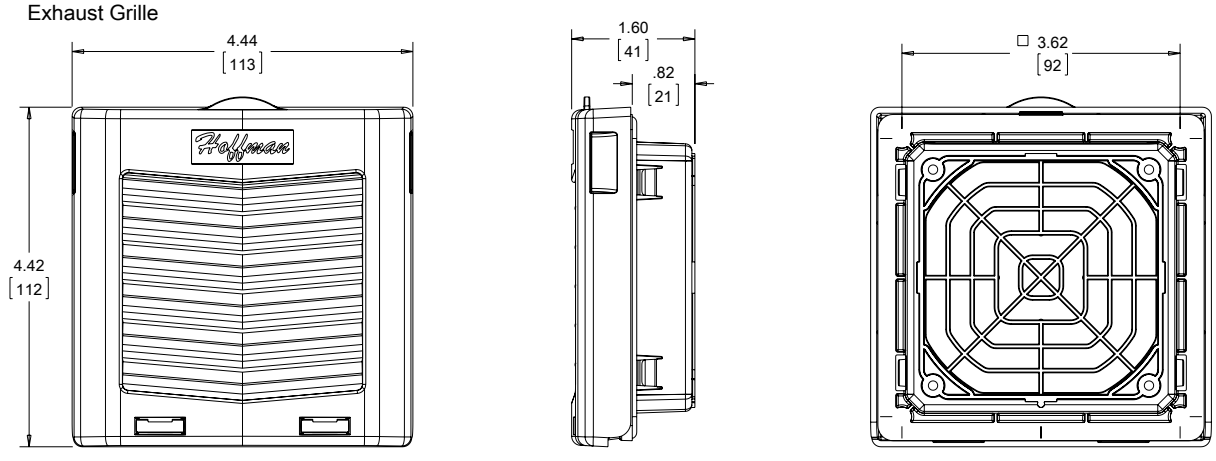
HF04 Capacity Curve, IP54



HF04 21 CFM (36 m³/hr.) Side-Mount Filter Fans



Exhaust Grille



Order exhaust grille kits separately.

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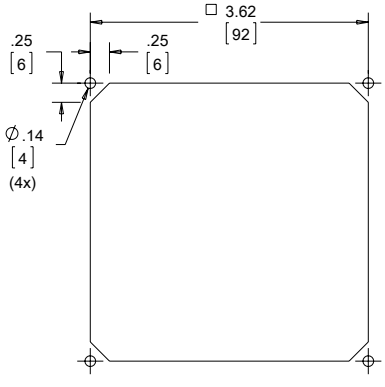

Cutout Dimensions

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Performance Data **HF05 35 CFM (59 m³/hr.) Side-Mount Filter Fans**

ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**24***	**48***
Frequency (Hz)	50/60	50/60	—	—
Nominal Current Maximum (Amps)	.16/.14	.12/.10	.35	.17
Power Consumption Maximum (Watts)	11.0/10.0	15.0/14.0	8.4	8.2
Power Connection		Terminal Block		
TYPE 12 / IP54 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF0516414**	**HF0526414**	**HF0524414**	**HF0548414**
RAL 9011 Black:				
Catalog Number	**HF0516413**	**HF0526413**	**HF0524413**	**HF0548413**
Free Airflow (CFM / m³/hr.)	35/59	35/59	35/59	35/59
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	23/39	23/39	23/39	23/39
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	28/48	28/48	28/48	28/48
TYPE 12 / IP55 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF0516514**	**HF0526514**	**HF0524514**	**HF0548514**
RAL 9011 Black:				
Catalog Number	**HF0516513**	**HF0526513**	**HF0524513**	**HF0548513**
Free Airflow (CFM / m³/hr.)	12/20	12/20	12/20	12/20
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	8/14	8/14	8/14	8/14
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	9/15	9/15	9/15	9/15
FILTER FAN UNIT CONSTRUCTION				
Fan RPM	2600/2900	2600/2900	3200	3200
Sound Pressure (dBA at 50/60 Hz)	40/44	40/44	40/44	40/44
Operating Temperature Range:				
Maximum (°F / °C)	131/55	131/55	149/65	149/65
Minimum (°F / °C)	14/-10	14/-10	-4/-20	14/-10
Service Life (hours) at 40 C	40,000	40,000	100,000	100,000
Unit Dimensions - H x W x D (in. / mm)		6.15 x 6.16 x 3.98/156 x 157 x 101		
Cutout Dimensions - H x W (in. / mm)		4.92 x 4.92/125 x 125		
Weight (lb. / kg)		1.77/.80		
TYPE 12 / IP54 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG0500404**	**HG0500404**	**HG0500404**	**HG0500404**
RAL 9011 Black:				
Catalog Number	**HG0500403**	**HG0500403**	**HG0500403**	**HG0500403**
TYPE 12 / IP55 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG0500504**	**HG0500504**	**HG0500504**	**HG0500504**
RAL 9011 Black:				
Catalog Number	**HG0500503**	**HG0500503**	**HG0500503**	**HG0500503**
ACCESSORIES				
Replacement Filters:				
Type 12 / IP54 Catalog Number	**89134424R**	**89134424R**	**89134424R**	**89134424R**
Type 12 / IP55 Catalog Number	**89136408R**	**89136408R**	**89136408R**	**89136408R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**	**—**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**	**—**	**—**
Shroud Catalog Number		**HH05GS35001, HH05GS61001, HH05SS04001**		

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

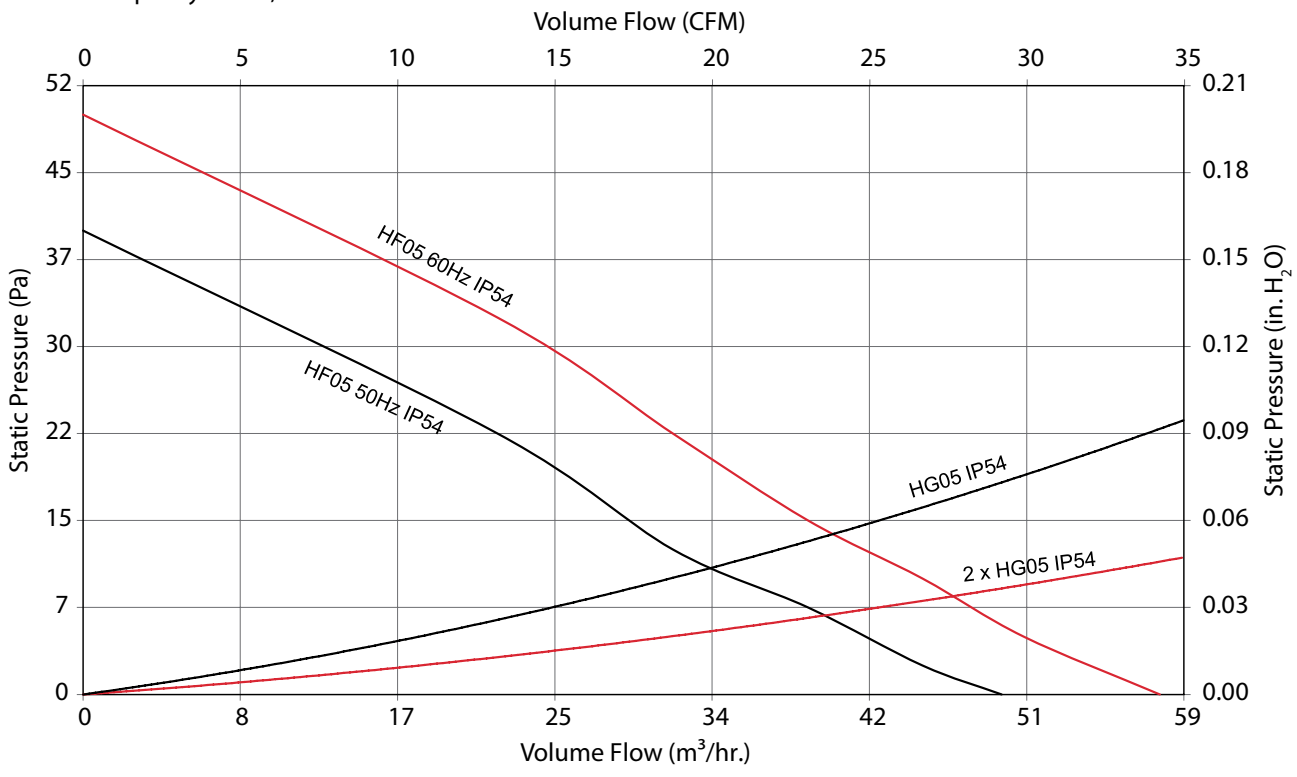
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

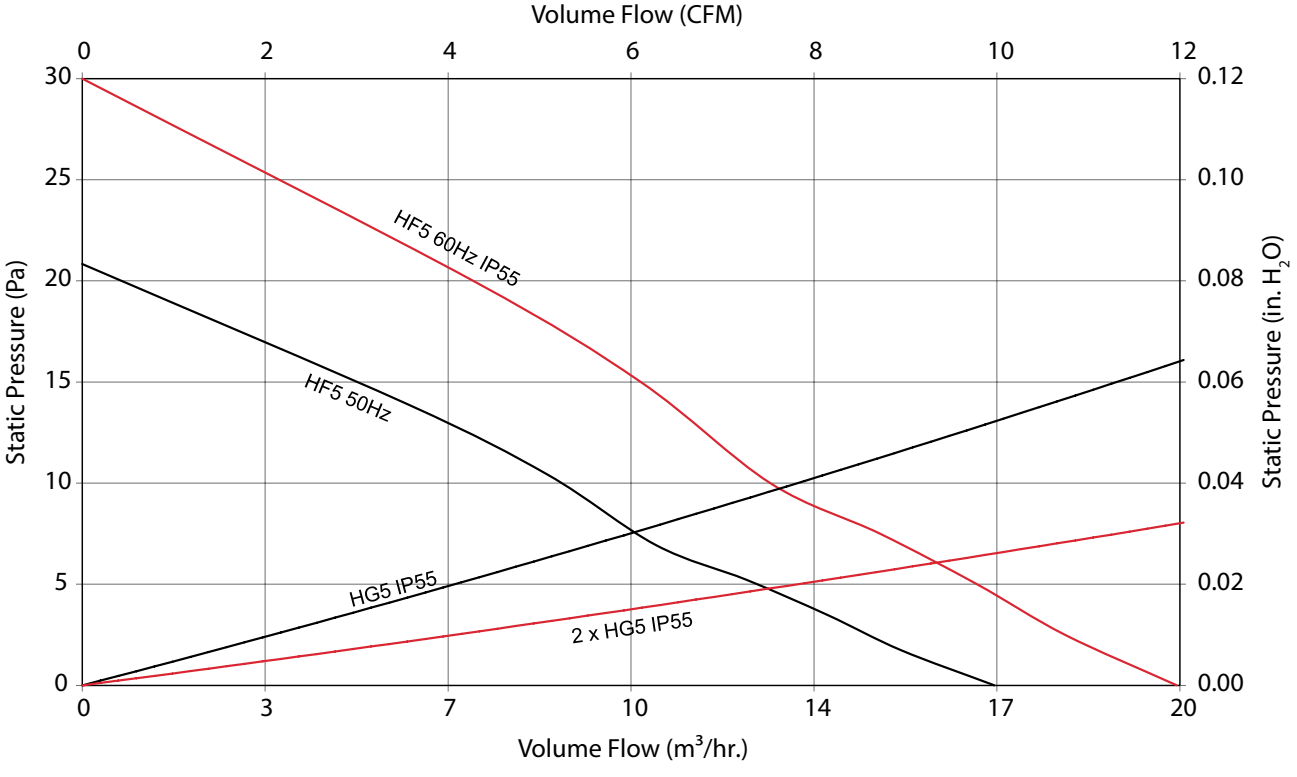
* This indicates a DC Voltage.

Performance Curves for HF05 Models 35 CFM (59 m³/hr.) Side-Mount Filter Fans

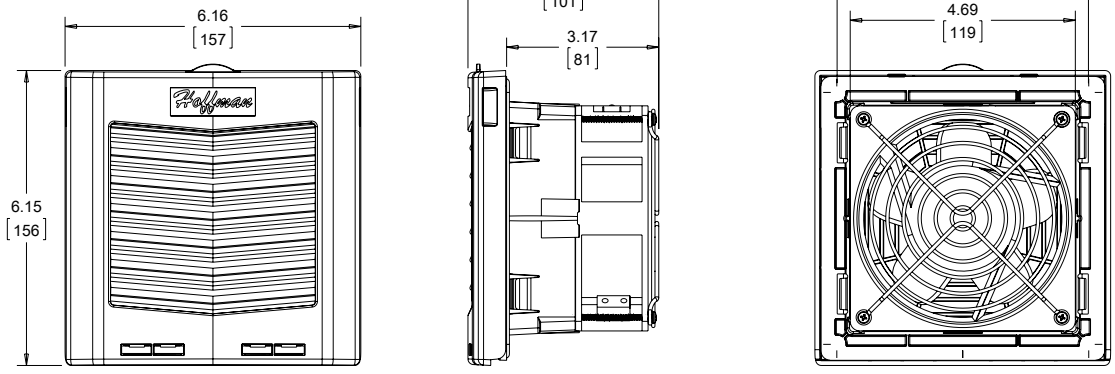
HF05 Capacity Curve, IP54



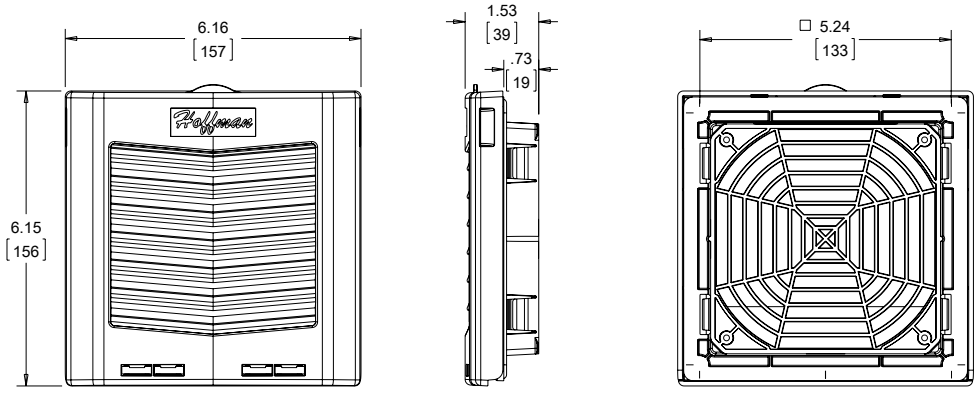
HF05 Capacity Curve, IP55



HF05 35 CFM (59 m³/hr.) Side-Mount Filter Fans

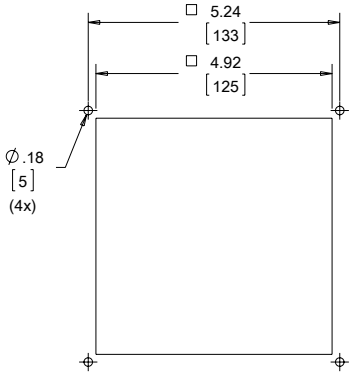


Exhaust Grille



Order exhaust grille kits separately.

89140583



Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HF09 70 CFM (119 m³/hr.) Side-Mount Filter Fans**

ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**24***	**48***
Frequency (Hz)	50/60	50/60	—	—
Nominal Current Maximum (Amps)	.16/.14	.12/.10	.35	.17
Power Consumption Maximum (Watts)	11.0/10.0	15.0/14.0	8.4	8.2
Power Connection		Terminal Block		
TYPE 12 / IP54 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF0916414**	**HF0926414**	**HF0924414**	**HF0948414**
RAL 9011 Black:				
Catalog Number	**HF0916413**	**HF0926413**	**HF0924413**	**HF0948413**
Free Airflow (CFM / m³/hr.)	70/119	70/119	70/119	70/119
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	44/75	44/75	44/75	44/75
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	55/93	55/93	55/93	55/93
TYPE 12 / IP55 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF0916514**	**HF0926514**	**HF0924514**	**HF0948514**
RAL 9011 Black:				
Catalog Number	**HF0916513**	**HF0926513**	**HF0924513**	**HF0948513**
Free Airflow (CFM / m³/hr.)	33/56	33/56	33/56	33/56
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	23/39	23/39	23/39	23/39
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	26/44	26/44	26/44	26/44
FILTER FAN UNIT CONSTRUCTION				
Fan RPM	2600/2900	2600/2900	3200	3200
Sound Pressure (dBA at 50/60 Hz)	43/46	43/46	43/46	43/46
Operating Temperature Range:				
Maximum (°F / °C)	131/55	131/55	149/65	149/65
Minimum (°F / °C)	14/-10	14/-10	-4/-20	14/-10
Service Life (hours) at 40 C	40,000	40,000	100,000	100,000
Unit Dimensions - H x W x D (in. / mm)		8.19 x 8.21 x 4.15/208 x 209 x 105		
Cutout Dimensions - H x W (in. / mm)		6.97 x 6.97/177 x 177		
Weight (lb. / kg)		2.13/1.0		
TYPE 12 / IP54 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG0900404**	**HG0900404**	**HG0900404**	**HG0900404**
RAL 9011 Black:				
Catalog Number	**HG0900403**	**HG0900403**	**HG0900403**	**HG0900403**
TYPE 12 / IP55 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG0900504**	**HG0900504**	**HG0900504**	**HG0900504**
RAL 9011 Black:				
Catalog Number	**HG0900503**	**HG0900503**	**HG0900503**	**HG0900503**
ACCESSORIES				
Replacement Filters:				
Type 12 / IP54 Catalog Number	**89134425R**	**89134425R**	**89134425R**	**89134425R**
Type 12 / IP55 Catalog Number	**89136409R**	**89136409R**	**89136409R**	**89136409R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**	**—**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**	**—**	**—**
Shroud Catalog Number		**HH10GS35001, HH10GS61001, HH10SS04001**		

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

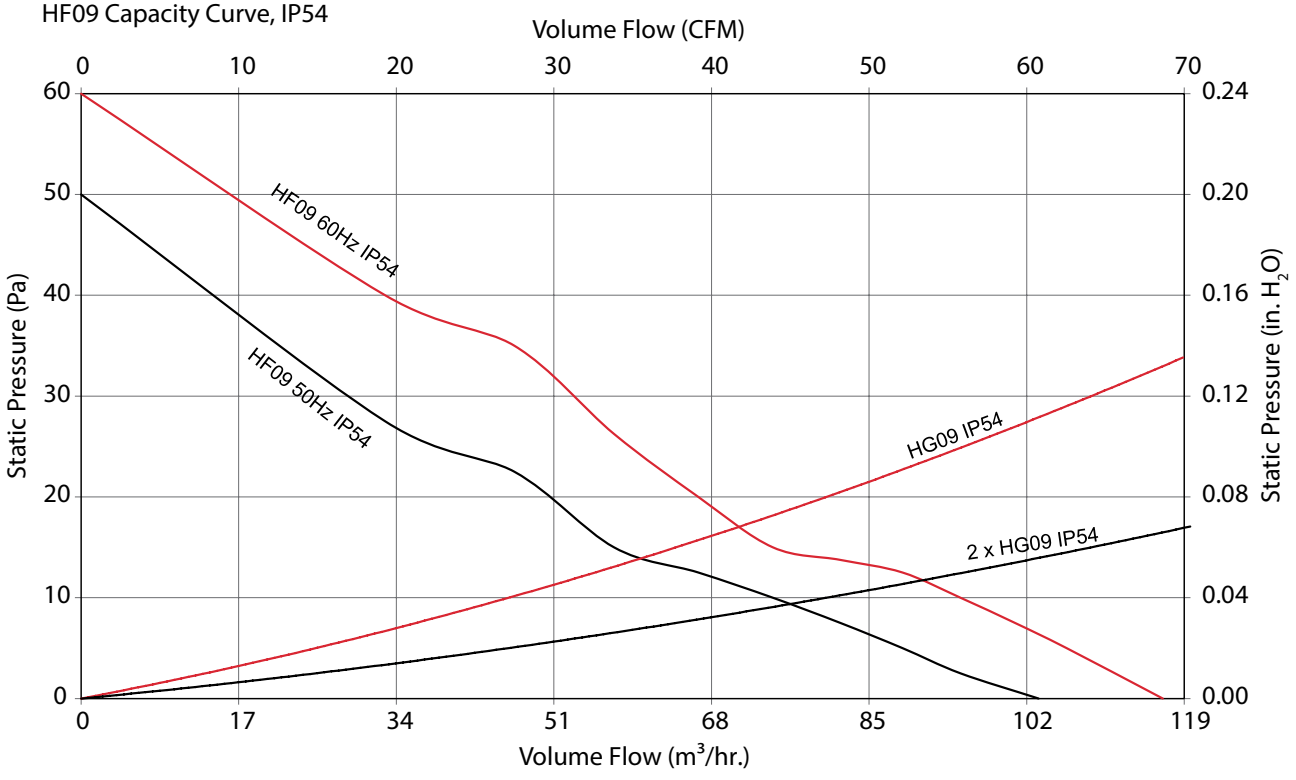
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

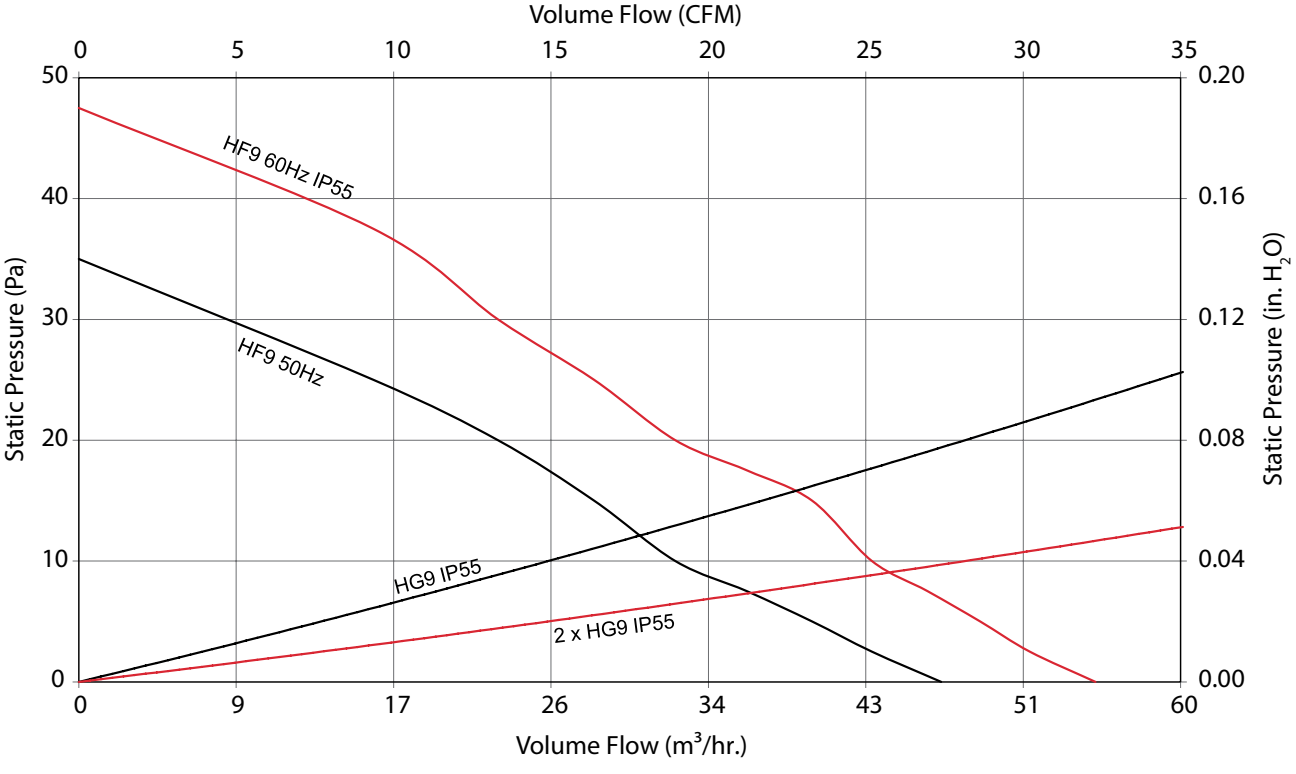
* This indicates a DC Voltage.

Performance Curves for HF09 Models 70 CFM (119 m³/hr.) Side-Mount Filter Fans

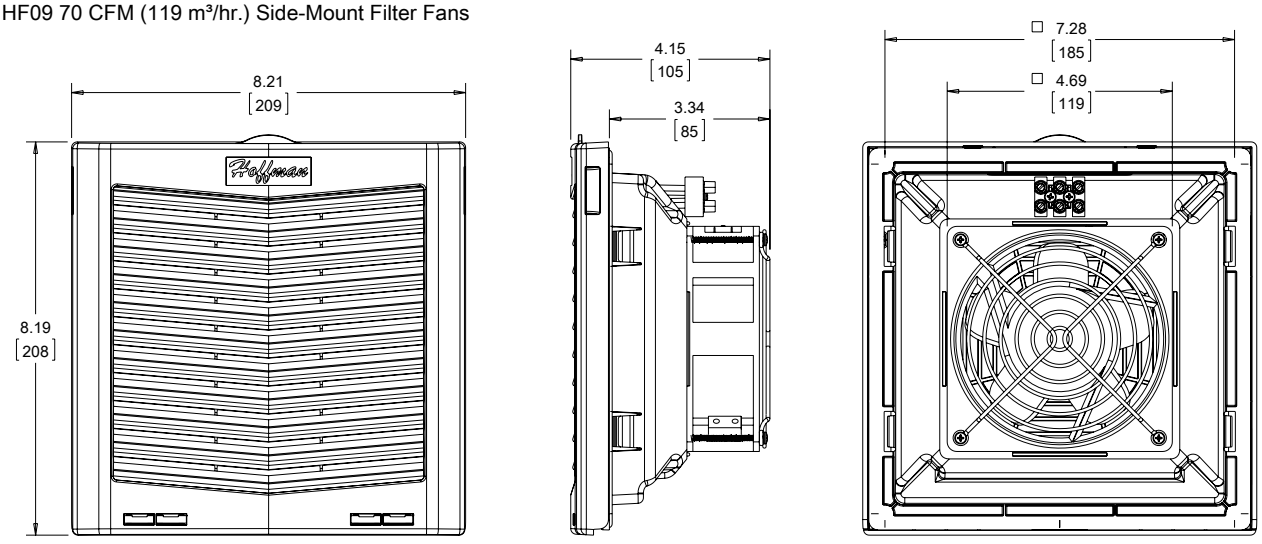
HF09 Capacity Curve, IP54



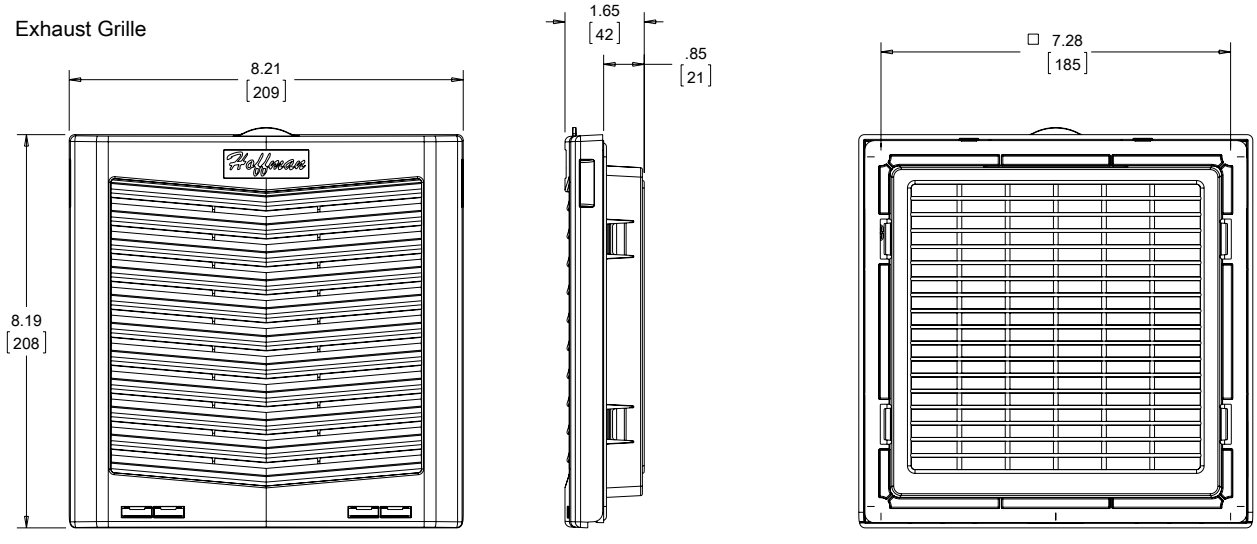
HF09 Capacity Curve, IP55



HF09 70 CFM (119 m³/hr.) Side-Mount Filter Fans



Exhaust Grille



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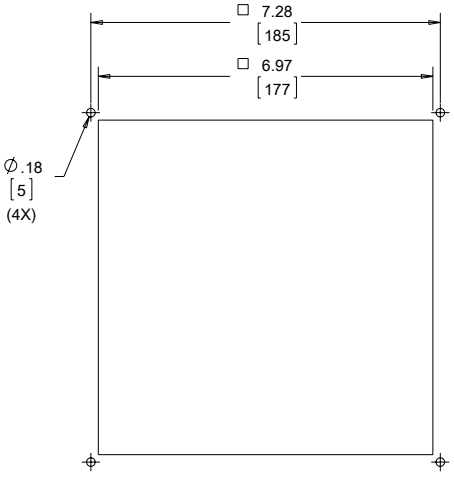

Cutout Dimensions

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Performance Data **HF10 159 CFM (270 m³/Hr.) Side-Mount Filter Fans**

ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**24***	**48***
Frequency (Hz)	50/60	50/60	—	—
Nominal Current Maximum (Amps)	.38/.36	.18/.19	.88	.32
Power Consumption Maximum (Watts)	35/32	38/35	21.1	15.4
Power Connection		Terminal Block		
TYPE 12 / IP54 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF1016414**	**HF1026414**	**HF1024414**	**HF1048414**
RAL 9011 Black:				
Catalog Number	**HF1016413**	**HF1026413**	**HF1024413**	**HF1048413**
Free Airflow (CFM / m³/hr.)	159/270	159/270	159/270	159/270
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	128/217	128/217	128/217	128/217
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	151/257	151/257	151/257	151/257
TYPE 12 / IP55 FILTER FANS				
RAL 7035 Light Gray:				
Catalog Number	**HF1016514**	**HF1026514**	**HF1024514**	**HF1048514**
RAL 9011 Black:				
Catalog Number	**HF1016513**	**HF1026513**	**HF1024513**	**HF1048513**
Free Airflow (CFM / m³/hr.)	103/175	103/175	103/175	103/175
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	80/136	80/136	80/136	80/136
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	87/148	87/148	87/148	87/148
FILTER FAN UNIT CONSTRUCTION				
Fan RPM	2700/3200	2700/3200	3750	3500
Sound Pressure (dBA at 50/60 Hz)	53/56	53/56	53/56	53/56
Operating Temperature Range:				
Maximum (°F / °C)	131/55	131/55	131/55	131/55
Minimum (°F / °C)	14/-10	14/-10	14/-10	14/-10
Service Life (hours) at 40 C	97,000	97,000	76,000	76,000
Unit Dimensions - H x W x D (in. / mm)		10.13 x 10.14 x 4.68/257 x 258 x 119		
Cutout Dimensions - H x W (in. / mm)		8.78 x 8.78/223 x 223		
Weight (lb. / kg)		3.14/1.40		
TYPE 12 / IP54 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG1000404**	**HG1000404**	**HG1000404**	**HG1000404**
RAL 9011 Black:				
Catalog Number	**HG1000403**	**HG1000403**	**HG1000403**	**HG1000403**
TYPE 12 / IP55 EXHAUST GRILLES				
RAL 7035 Light Gray:				
Catalog Number	**HG1000504**	**HG1000504**	**HG1000504**	**HG1000504**
RAL 9011 Black:				
Catalog Number	**HG1000503**	**HG1000503**	**HG1000503**	**HG1000503**
ACCESSORIES				
Replacement Filters:				
Type 12 / IP54 Catalog Number	**89134426R**	**89134426R**	**89134426R**	**89134426R**
Type 12 / IP55 Catalog Number	**89136410R**	**89136410R**	**89136410R**	**89136410R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**	**—**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**		
Shroud Catalog Number		**HH10GS35001, HH10GS61001, HH10SS04001**		

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

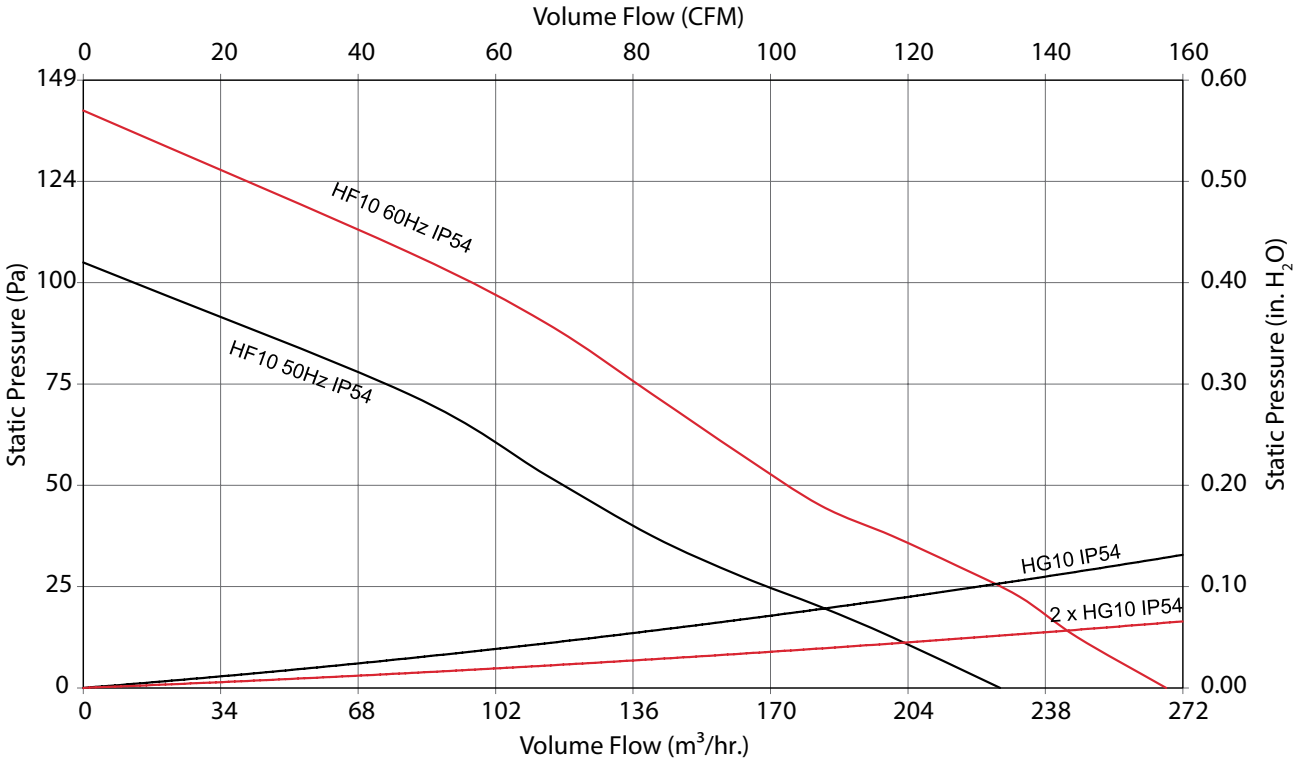
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

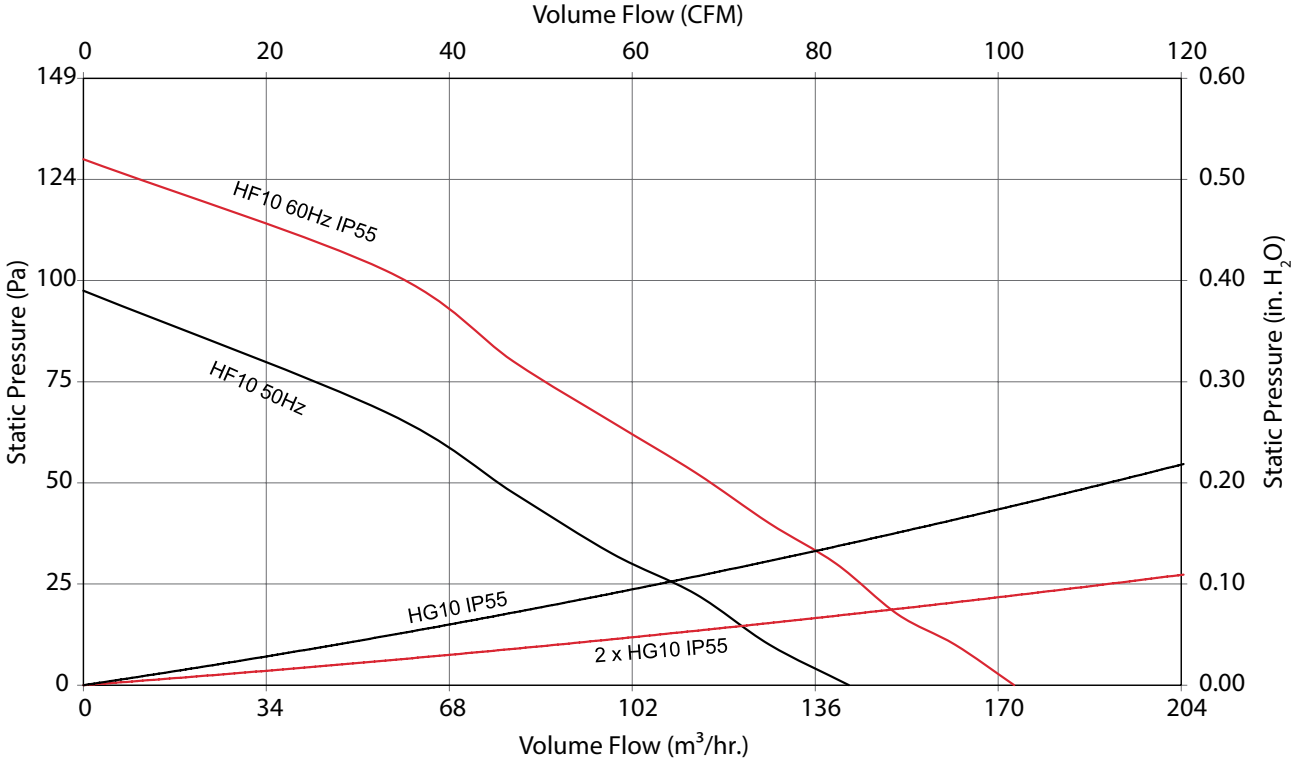
* This indicates a DC Voltage.

Performance Curves for HF10 Models 159 CFM (270 m^3/hr.) Side-Mount Filter Fans

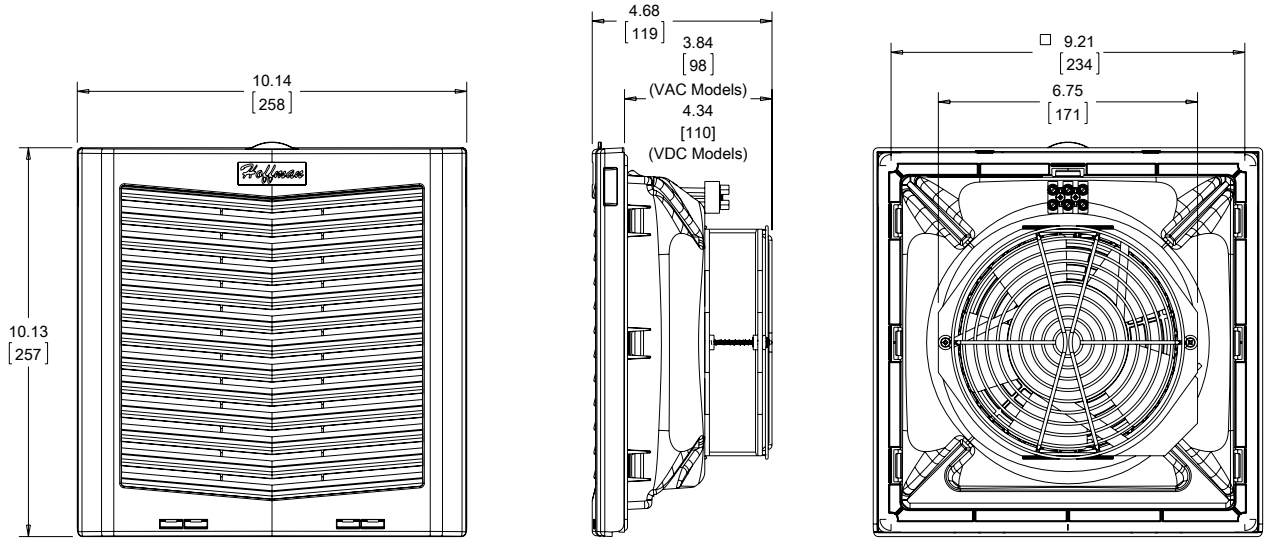
HF10 Capacity Curve, IP54



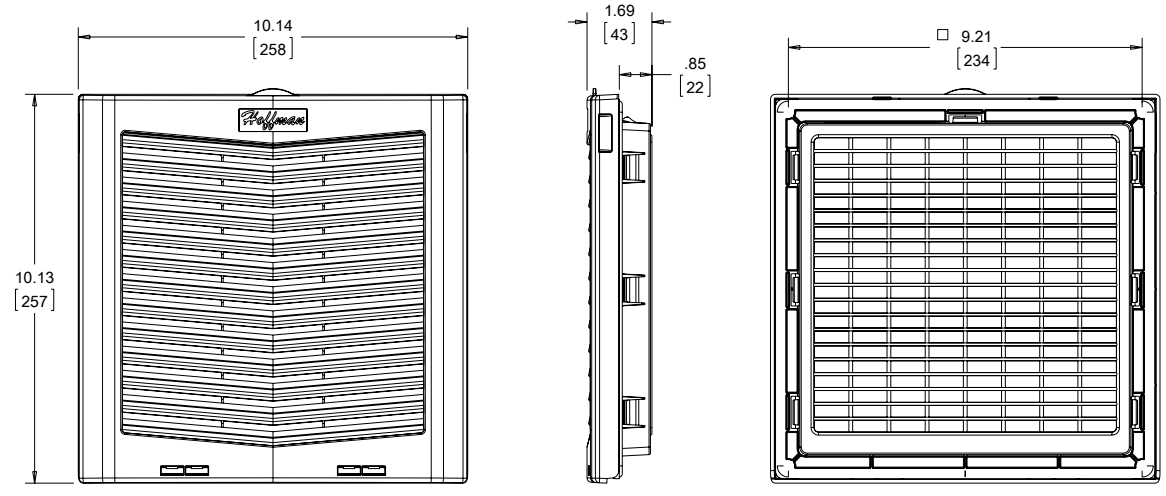
HF10 Capacity Curve, IP55



HF10 159 CFM (270 m³/Hr.) Side-Mount Filter Fans



Exhaust Grille



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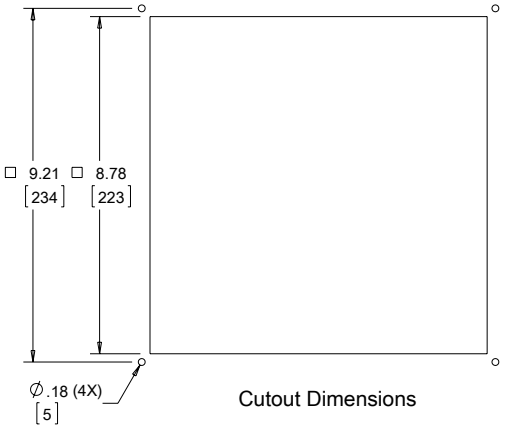


Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HF13 395 CFM (671 m³/hr.) Side-Mount Filter Fans - Standard and Reverse**

ELECTRICAL DATA						
Rated Voltage	**115**	**230**	**24***	**48***	**115 Rvrs**	**230 Rvrs**
Frequency (Hz)	50/60	50/60	—	—	50/60	50/60
Nominal Current Maximum (Amps)	.76/.88	.34/.37	2.6	1.12	.76/.88	.34/.37
Power Consumption Maximum (Watts)	65/72	74/80	55	54	65/72	74/80
Power Connection	Terminal Block					
TYPE 12 / IP54 FILTER FANS						
RAL 7035 Light Gray:						
Catalog Number	**HF1316414**	**HF1326414**	**HF1324414**	**HF1348414**	**HF1316414R**	**HF1326414R**
RAL 9011 Black:						
Catalog Number	**HF1316413**	**HF1326413**	**HF1324413**	**HF1348413**	**HF1316413R**	**HF1326413R**
Free Airflow (CFM / m^3/hr.)	395/671	395/671	395/671	395/671	395/671	395/671
Airflow with 1 Exhaust Grille (CFM / m^3/hr.)	281/477	281/477	281/477	281/477	281/477	281/477
Airflow with 2 Exhaust Grilles (CFM / m^3/hr.)	366/621	366/621	366/621	366/621	366/621	366/621
TYPE 12 / IP55 FILTER FANS						
RAL 7035 Light Gray:						
Catalog Number	**HF1316514**	**HF1326514**	**HF1324514**	**HF1348514**	**HF1316514R**	**HF1326514R**
RAL 9011 Black:						
Catalog Number	**HF1316513**	**HF1326513**	**HF1324513**	**HF1348513**	**HF1316513R**	**HF1326513R**
Free Airflow (CFM / m^3/hr.)	149/253	149/253	149/253	149/253	149/253	149/253
Airflow with 1 Exhaust Grille (CFM / m^3/hr.)	100/170	100/170	100/170	100/170	100/170	100/170
Airflow with 2 Exhaust Grilles (CFM / m^3/hr.)	113/192	113/192	113/192	113/192	113/192	113/192
FILTER FAN UNIT CONSTRUCTION						
Fan RPM	2600/3000	2600/3000	2950	2950	2600/3000	2600/3000
Sound Pressure (dBA at 50/60 Hz)	57/59	57/59	57/59	57/59	57/59	57/59
Operating Temperature Range:						
Maximum (°F / °C)	131/55	131/55	135/55	135/55	131/55	131/55
Minimum (°F / °C)	14/-10	14/-10	14/-10	14/-10	14/-10	14/-10
Service Life (hours) at 40 C	59,000	59,000	57,000	57,000	59,000	57,000
Unit Dimensions - H x W x D (in. / mm)	12.8 x 12.82 x 6.30/325 x 326 x 160					
Cutout Dimensions - H x W (in. / mm)	11.5 x 11.5/292 x 292					
Weight (lb. / kg)	4.25/1.90					
TYPE 12 / IP54 EXHAUST GRILLES						
RAL 7035 Light Gray:						
Catalog Number	**HG1300404**	**HG1300404**	**HG1300404**	**HG1300404**	**HG1300404**	**HG1300404**
RAL 9011 Black:						
Catalog Number	**HG1300403**	**HG1300403**	**HG1300403**	**HG1300403**	**HG1300403**	**HG1300403**
TYPE 12 / IP55 EXHAUST GRILLES						
RAL 7035 Light Gray:						
Catalog Number	**HG1300504**	**HG1300504**	**HG1300504**	**HG1300504**	**HG1300504**	**HG1300504**
RAL 9011 Black:						
Catalog Number	**HG1300503**	**HG1300503**	**HG1300503**	**HG1300503**	**HG1300503**	**HG1300503**
ACCESSORIES						
Replacement Filters:						
Type 12 / IP54 Catalog Number	**89134427R**	**89134427R**	**89134427R**	**89134427R**	**89134427R**	**89134427R**
Type 12 / IP55 Catalog Number	**89136411R**	**89136411R**	**89136411R**	**89136411R**	**89136411R**	**89136411R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**	**—**	**THERM16F**	**THERM26F**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**	**—**	**—**	**THERM16C**	**THERM26C**
Shroud Catalog Number	**HH13GS35001, HH13GS61001, HH13SS04001**					

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

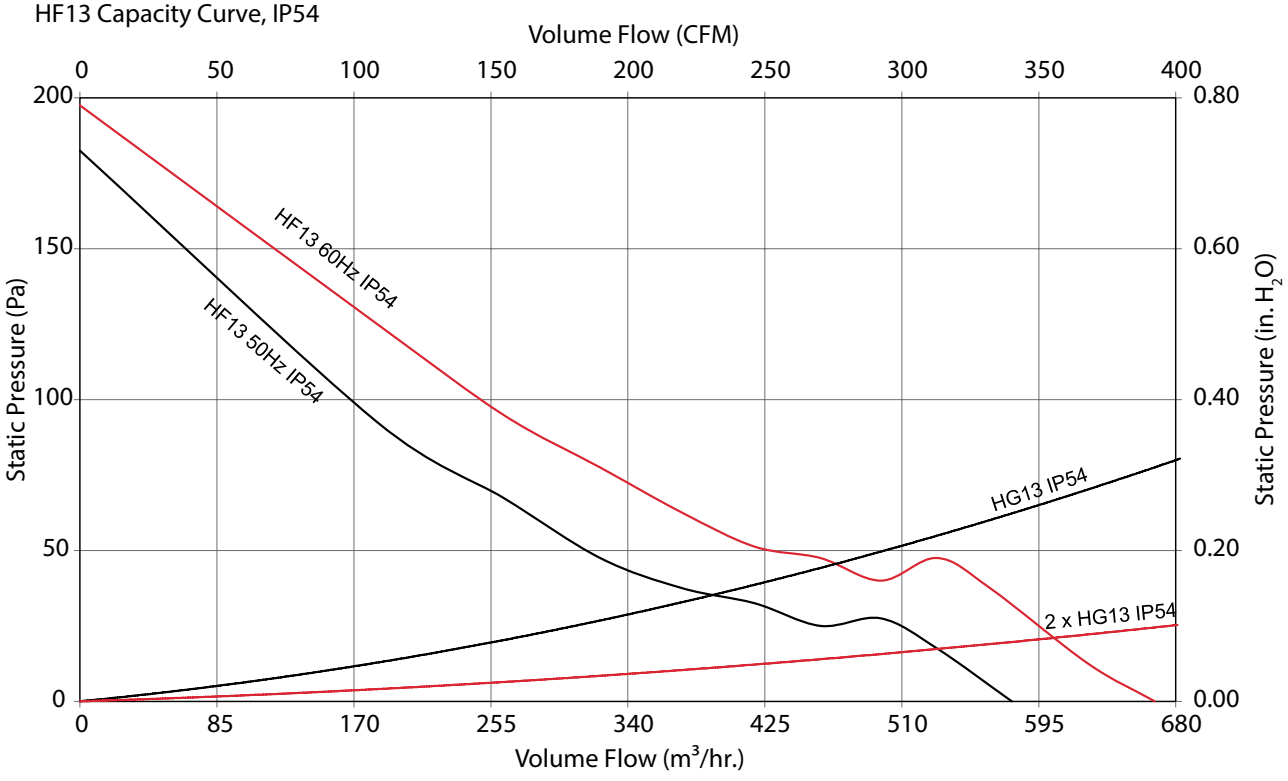
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

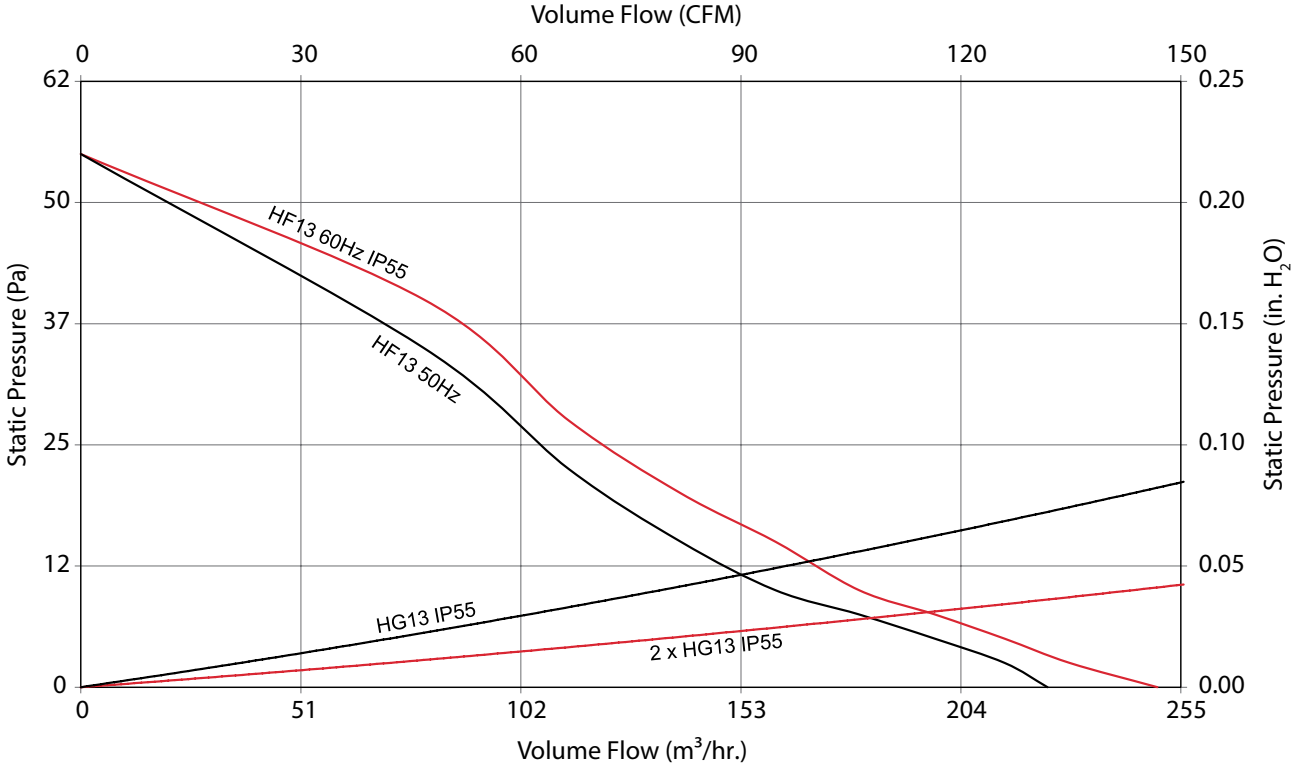
* This indicates a DC Voltage.

Performance Curves for HF13 Models 395 CFM (671 m³/hr.) Side-Mount Filter Fans

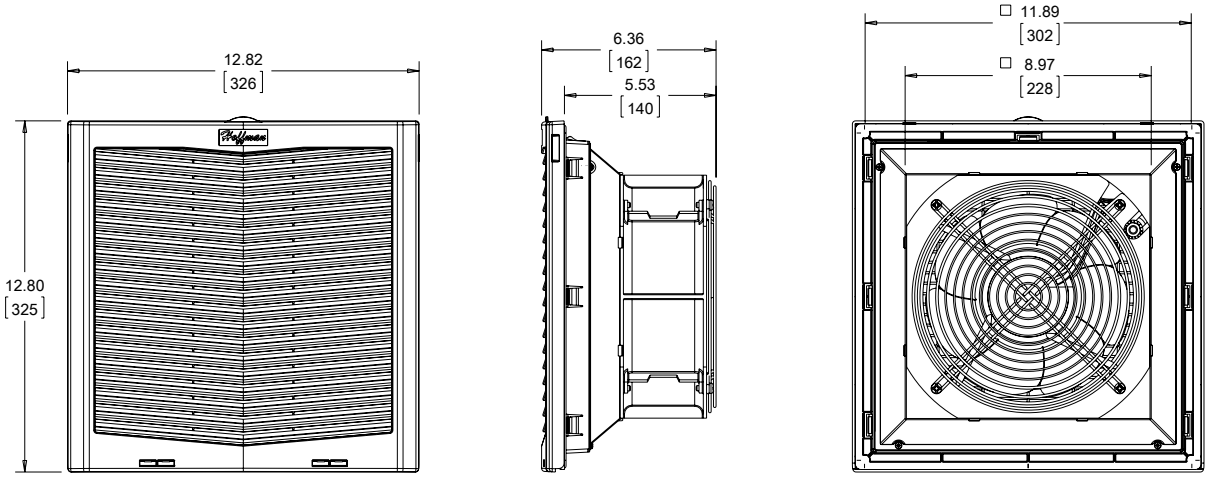
HF13 Capacity Curve, IP54



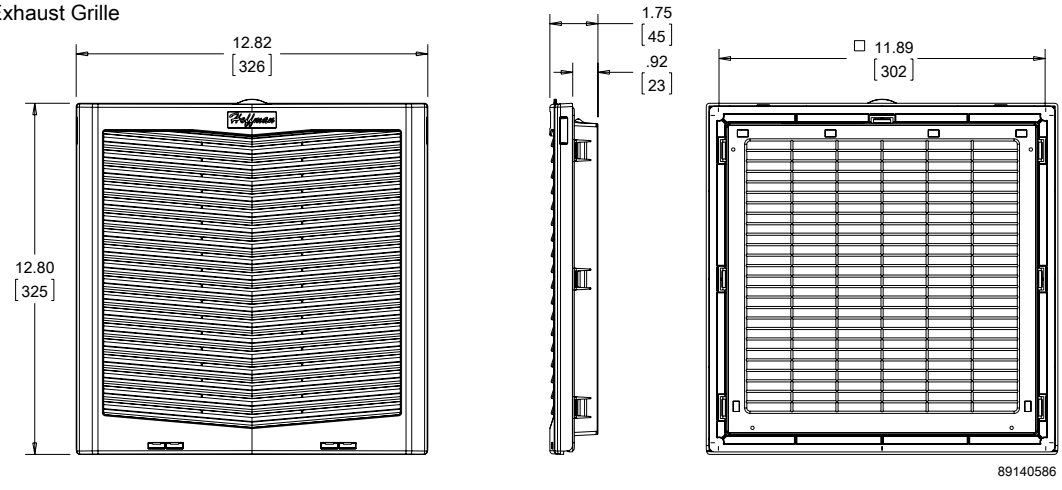
HF13 Capacity Curve, IP55

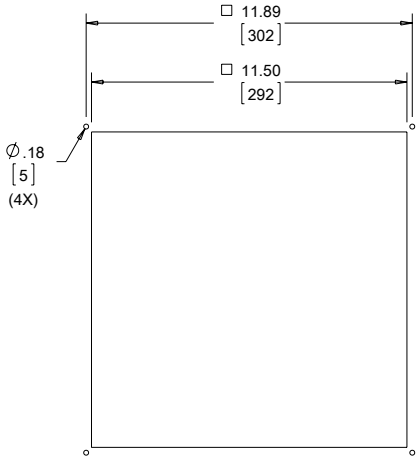


HF13 395 CFM (671 m³/hr.) Side-Mount Filter Fans - Standard and Reverse



Exhaust Grille





Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HF13 484 CFM (822 m³/hr.) Side-Mount Filter Fans - Standard**

ELECTRICAL DATA			
Rated Voltage	**115**	**230**	**24***
Frequency (Hz)	50/60	50/60	—
Nominal Current Maximum (Amps)	1.08/1.18	.50/.60	5.0
Power Consumption Maximum (Watts)	112/148	119/158	105
Power Connection		Terminal Block	
TYPE 12 / IP54 FILTER FANS			
RAL 7035 Light Gray:			
Catalog Number	**HF1316424**	**HF1326424**	**HF1324424**
RAL 9011 Black:			
Catalog Number	**HF1316423**	**HF1326423**	**HF1324423**
Free Airflow (CFM / m³/hr.)	484/822	484/822	484/822
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	417/708	417/708	417/708
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	442/751	442/751	442/751
TYPE 12 / IP55 FILTER FANS			
RAL 7035 Light Gray:			
Catalog Number	**HF1316524**	**HF1326524**	**HF1324524**
RAL 9011 Black:			
Catalog Number	**HF1316523**	**HF1326523**	**HF1324523**
Free Airflow (CFM / m³/hr.)	197/335	197/335	197/335
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	155/263	155/263	155/263
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	175/297	175/297	175/297
FILTER FAN UNIT CONSTRUCTION			
Fan RPM	2550/2850	2550/2850	2750
Sound Pressure (dBA at 50/60 Hz)	67/70	67/70	70
Operating Temperature Range:			
Maximum (°F / °C)	131 / 55	131 / 55	131 / 55
Minimum (°F / °C)	14 / -10	14 / -10	14 / -10
Service Life (hours)	59,000	59,000	57,000
Unit Dimensions - H x W x D (in. / mm)		12.8 x 12.82 x 6.30/325 x 326 x 160	
Cutout Dimensions - H x W (in. / mm)		11.50 x 11.50/292 x 292	
Weight (lb. / kg)		4.32/1.96	
TYPE 12 / IP54 EXHAUST GRILLES			
RAL 7035 Light Gray:			
Catalog Number	**HG1300404**	**HG1300404**	**HG1300404**
RAL 9011 Black:			
Catalog Number	**HG1300403**	**HG1300403**	**HG1300403**
TYPE 12 / IP55 EXHAUST GRILLES			
RAL 7035 Light Gray:			
Catalog Number	**HG1300504**	**HG1300504**	**HG1300504**
RAL 9011 Black:			
Catalog Number	**HG1300503**	**HG1300503**	**HG1300503**
ACCESSORIES			
Replacement Filters:			
Type 12 / IP54 Catalog Number	**89134427R**	**89134427R**	**89134427R**
Type 12 / IP55 Catalog Number	**89136411R**	**89136411R**	**89136411R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**	**—**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**	**—**
Shroud Catalog Number		**HH13GS35001, HH13GS61001, HH13SS04001**	

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

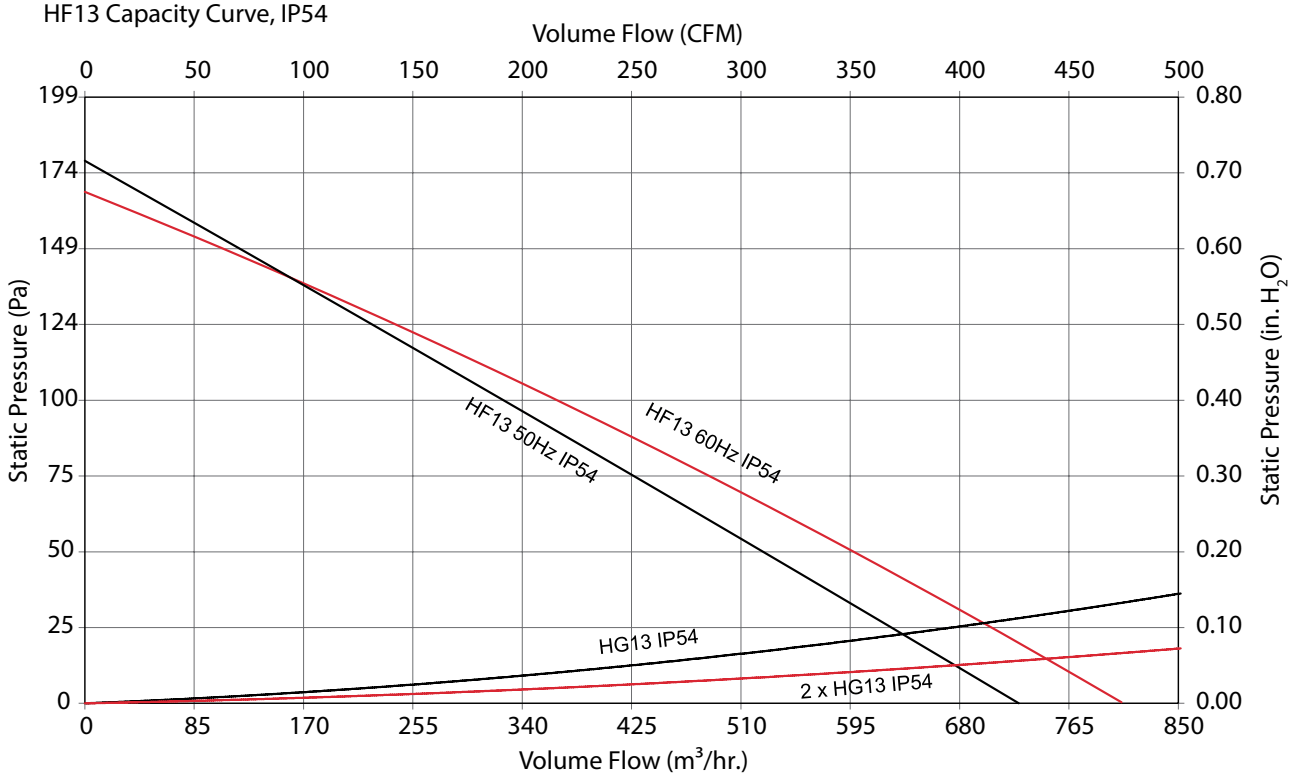
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

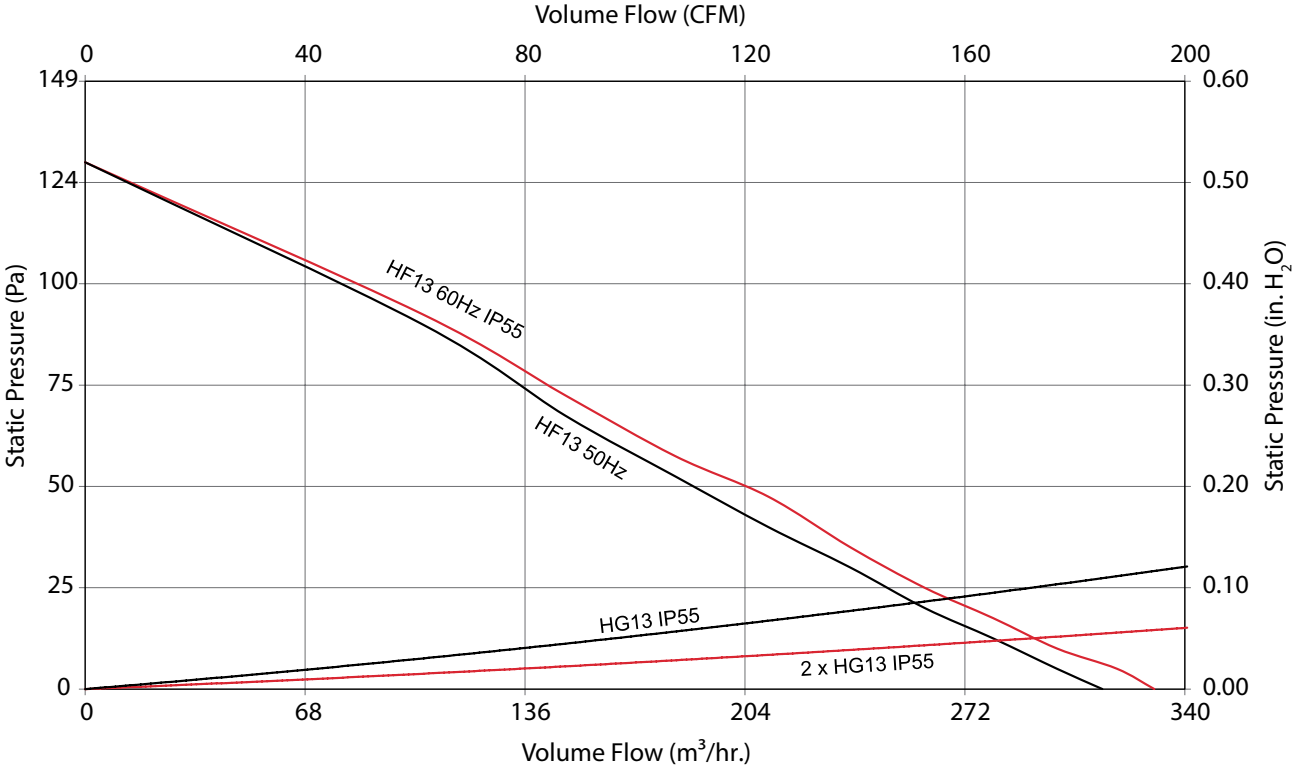
* This indicates a DC Voltage.

Performance Curves for HF13 Models 484 CFM (822 m^3/hr.) Side-Mount Filter Fans

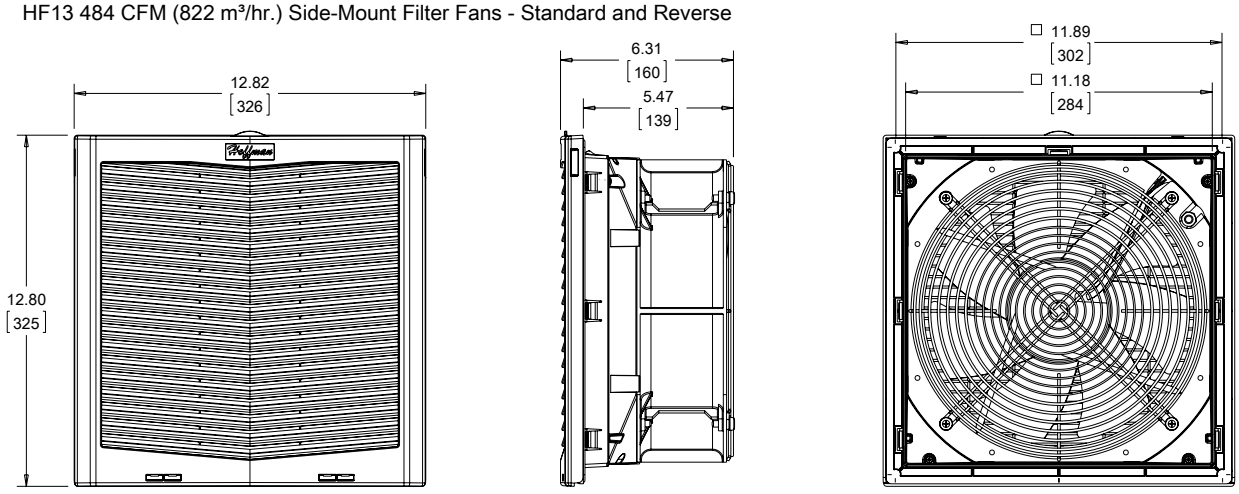
HF13 Capacity Curve, IP54



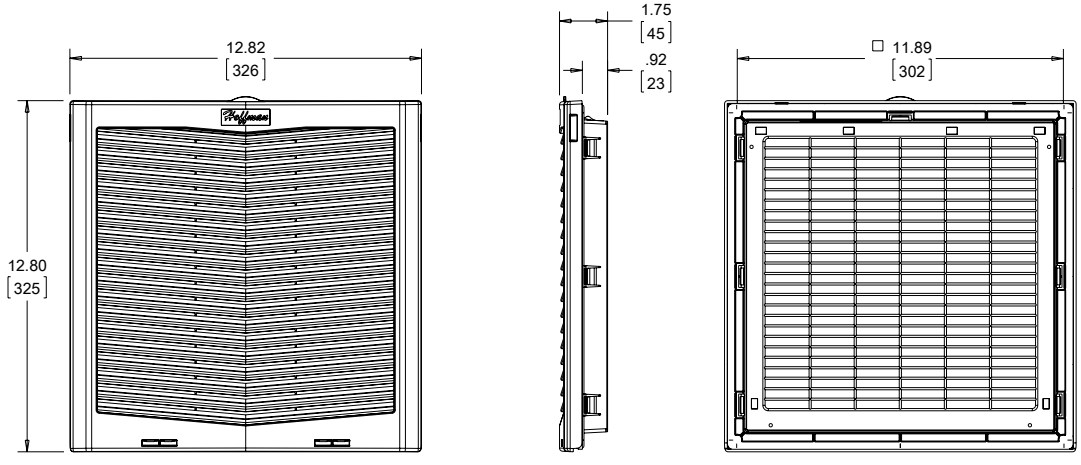
HF13 Capacity Curve, IP55

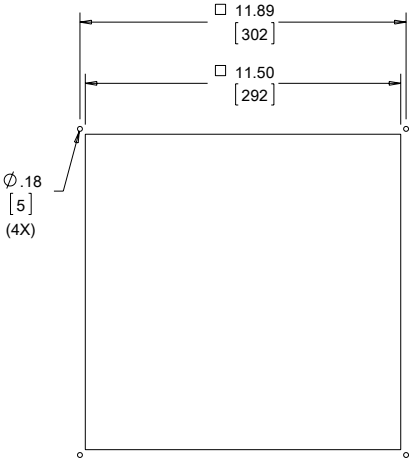


HF13 484 CFM (822 m³/hr.) Side-Mount Filter Fans - Standard and Reverse



Exhaust Grille





Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HF13 484 CFM (822 m³/hr.) Side-Mount Filter Fans - Reverse**

ELECTRICAL DATA		
Rated Voltage	**115 Rvrs**	**230 Rvrs**
Frequency (Hz)	50/60	50/60
Nominal Current Maximum (Amps)	1.05/1.5	.51/.70
Power Consumption Maximum (Watts)	112/148	119/158
Power Connection	Terminal Block	
TYPE 12 / IP54 FILTER FANS		
RAL 7035 Light Gray:		
Catalog Number	**HF1316424R**	**HF1326424R**
RAL 9011 Black:		
Catalog Number	**HF1316423R**	**HF1326423R**
Free Airflow (CFM / m^3/hr.)	484/822	484/822
Airflow with 1 Exhaust Grille (CFM / m^3/hr.)	417/708	417/708
Airflow with 2 Exhaust Grilles (CFM / m^3/hr.)	442/751	442/751
FILTER FAN UNIT CONSTRUCTION		
Fan RPM	2550/2850	2550/2850
Sound Pressure (dBA at 50/60 Hz)	67/70	67/70
Operating Temperature Range:		
Maximum (°F / °C)	131/55	131/55
Minimum (°F / °C)	14/-10	14/-10
Service Life (hours)	59,000	59,000
Unit Dimensions - H x W x D (in. / mm)	12.8 x 12.82 x 6.30/325 x 326 x 160	
Cutout Dimensions - H x W (in. / mm)	11.50 x 11.50/292 x 292)	
Weight (lb. / kg)	4.32/1.96	
TYPE 12 / IP54 EXHAUST GRILLES		
RAL 7035 Light Gray:		
Catalog Number	**HG1300404**	**HG1300404**
RAL 9011 Black:		
Catalog Number	**HG1300403**	**HG1300403**
TYPE 12 / IP55 EXHAUST GRILLES		
RAL 7035 Light Gray:		
Catalog Number	**HG1300504**	**HG1300504**
RAL 9011 Black:		
Catalog Number	**HG1300503**	**HG1300503**
ACCESSORIES		
Replacement Filters:		
Type 12/IP54 Catalog Number	**89134427R**	**89134427R**
Type 12 / IP55 Catalog Number	**89136411R**	**89136411R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**
Shroud Catalog Number	**HH13GS35001, HH13GS61001, HH13SS04001**	

Above airflow rates at 60 Hz; see performance curves for airflow at 50 Hz and more details.

Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

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HR TOP-MOUNT FILTER FANS

INDUSTRY STANDARDS

UL/cUL Listed; File No. E482010

CE
EAC

APPLICATION

- Industrial automation
- Automotive assembly
- Package handling equipment
- Food and beverage process controls
- Wind energy systems

FEATURES

- Free airflow up to 266 CFM (452 m^3/hr.) or 348 CFM (591 m^3/hr.)
- Enclosure roof mounting
- Bolt in place to ensure a tight seal
- Terminal block connections

FINISH

- RAL 7035 light-gray UV-resistant mild steel standard
- RAL 9011 black UV-resistant mild steel optional

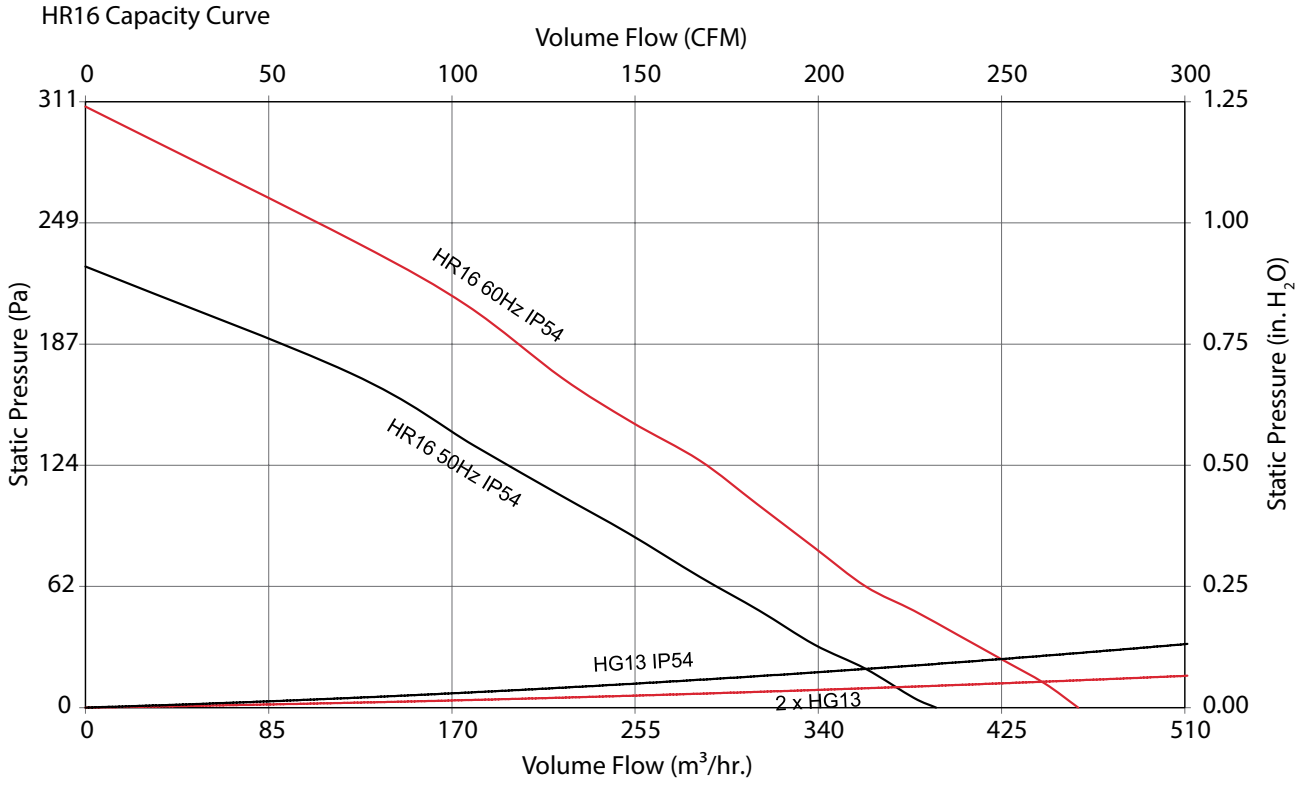
NOTES

Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **HR16 266 CFM (452 m³/hr.) Top-Mount Filter Fans**

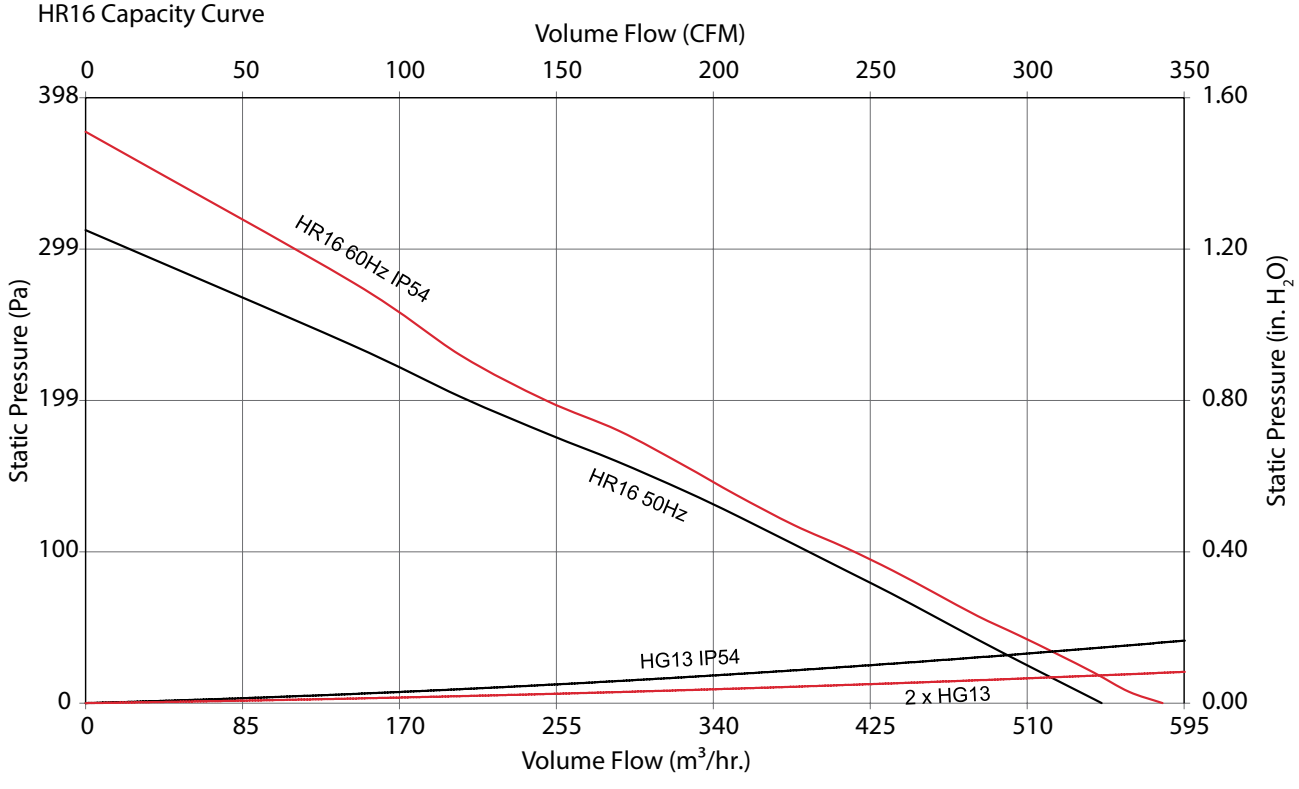
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Nominal Current Maximum (Amps)	.82	.48
Power Consumption Maximum (Watts)	80	108
Power Connection	Terminal Block	
FILTER FANS		
RAL 7035 Light Gray:		
Catalog Number	**HR1616414**	**HR1626414**
Free Airflow (CFM / m³/hr.)	266/452	266/452
Airflow with 1 Exhaust Grille (CFM / m³/hr.)	250/425	250/425
Airflow with 2 Exhaust Grilles (CFM / m³/hr.)	260/442	260/442
FILTER FAN UNIT CONSTRUCTION		
Fan RPM	2880	2980
Sound Pressure (dBA)	70	68
Operating Temperature Range:		
Maximum (°F / °C)	131/55	131/55
Minimum (°F / °C)	14/-10	14/-10
Service Life (hours)	50,000	50,000
Unit Dimensions - H x W x D (in. / mm)	13.52 x 16.27 x 4.19 / 343 x 413 x 107	
Cutout Dimensions - H x W (in. / mm)	10.43 x 13.58 / 265 x 345	
Weight (lb. / kg)	17.20 / 7.8	
EXHAUST GRILLES		
RAL 7035 Light Gray:		
Catalog Number	**HG1300404**	
ACCESSORIES		
Replacement Filters:		
Catalog Number	**89136409R**	**89136409R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**

Performance Curves for HR16 Models 266 CFM (452 m³/hr.) Side-Mount Filter Fans

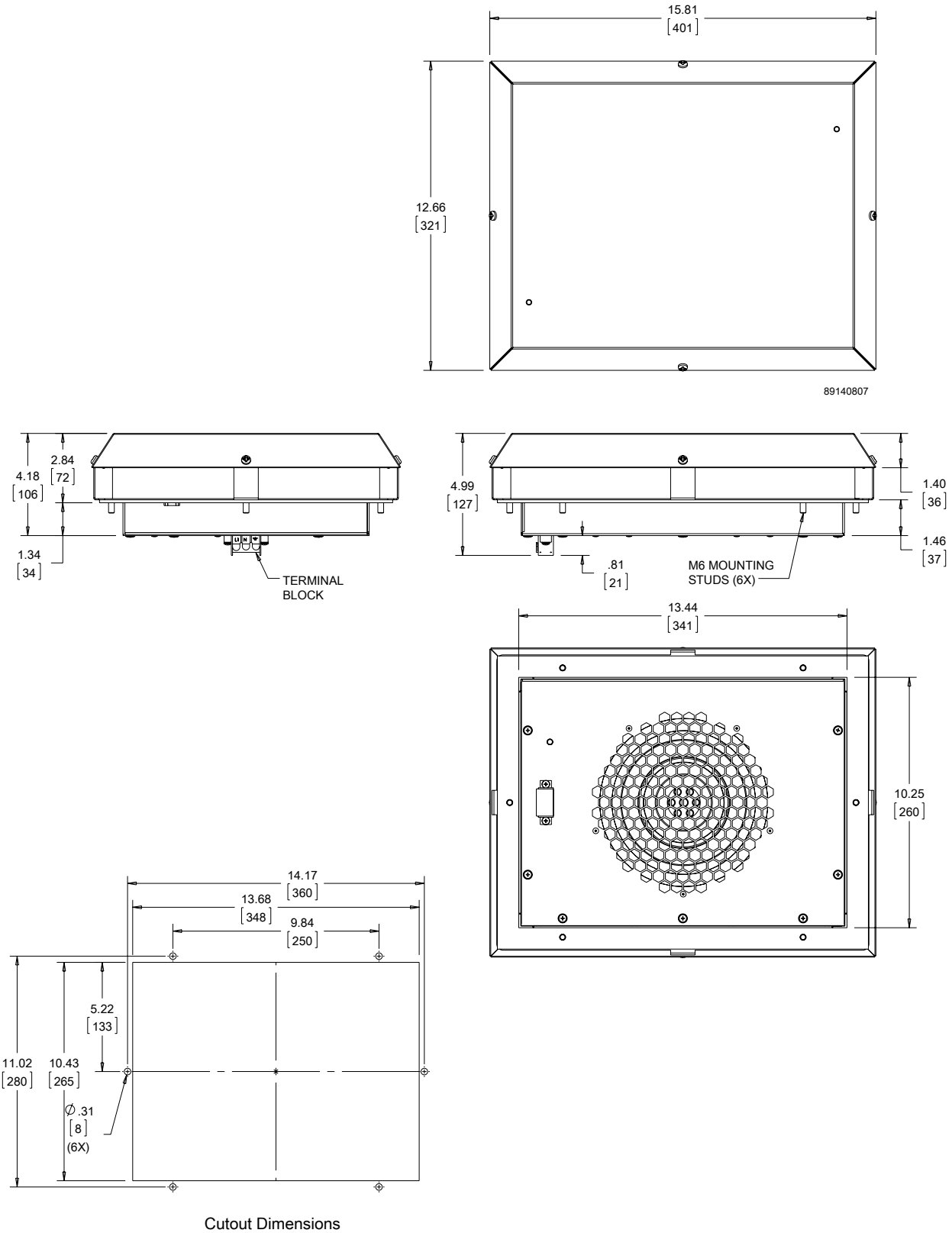


ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Nominal Current Maximum (Amps)	.93	.53
Power Consumption Maximum (Watts)	107	120
Power Connection	Terminal Block	
FILTER FANS		
RAL 7035 Light Gray:		
Catalog Number	**HR1616424**	**HR1626424**
Free Airflow (CFM / m^3/hr.)	348/591	348/591
Airflow with 1 Exhaust Grille (CFM / m^3/hr.)	311/528	311/528
Airflow with 2 Exhaust Grilles (CFM / m^3/hr.)	325/552	325/552
FILTER FAN UNIT CONSTRUCTION		
Fan RPM	2610	2650
Sound Pressure (dBA)	68	68
Operating Temperature Range:		
Maximum (°F / °C)	131/55	131/55
Minimum (°F / °C)	14/-10	14/-10
Service Life (hours)	50,000	50,000
Unit Dimensions - H x W x D (in. / mm)	13.52 x 16.27 x 4.19 / 343 x 413 x 107	
Cutout Dimensions - H x W (in. / mm)	10.43 x 13.58 / 265 x 345	
Weight (lb. / kg)	17.20 / 7.8	
EXHAUST GRILLES		
RAL 7035 Light Gray:		
Catalog Number	**HG1300404**	
ACCESSORIES		
Replacement Filters:		
Catalog Number	**89134427R**	**89136409R**
Thermostat Catalog Number (°F)	**THERM16F**	**THERM26F**
Thermostat Catalog Number (°C)	**THERM16C**	**THERM26C**

Performance Curves for HR16 Models 348 CFM (591 m^3/hr.) Side-Mount Filter Fans



HR16 266-348 CFM (452-591 m³/hr.) Top-Mount Filter Fans



Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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FILTER FAN SHROUDS

INDUSTRY STANDARDS

Maintains UL/cUL Listed Type 3R and Type 12 rating when properly installed on a Type 3R or Type 12 enclosure

UL 508A UL/cUL Listed; Type 3R; File No. E482010

FEATURES

- Protects filter fan and exhaust grill from wind-driven rain and high-pressure hose water
- Easy one person installation with simple back panel mounting
- Easily accessed filter simplifies replacement
- Low profile design
- Provides Type 3R protections and maintains a Type 12 rating when used with an equivalent rated filter kit

FINISH

- RAL 7035 light gray polyester powder coat paint on galvanized metal
- ANSI 61 gray polyester powder coat paint on galvanized metal
- Stainless Steel #304

HH05 Models			
Catalog Number	**HH05GS35001**	**HH05GS61001**	**HH05SS04001**
Provides protection for:			
Filter Fan Models	HF04 and HF05	HF04 and HF05	HF04 and HF05
Exhaust Grille Models	HG04 and HG05	HG04 and HG05	HG04 and HG05
Unit Construction			
Material	Galvanized	Galvanized	Stainless Steel #304
Finish	RAL 7035 polyester powder coat paint	ANSI 61 polyester powder coated paint	N/A
Unit Dimensions H x W x D (in./mm)	10.50 x 8.00 x 1.85/267 x 203 x 47	10.50 x 8.00 x 1.85/267 x 203 x 47	10.50 x 8.00 x 1.85/267 x 203 x 47
HH10 Models			
Catalog Number	**HH10GS35001**	**HH10GS61001**	**HH10SS04001**
Provides protection for:			
Filter Fan Models	HF09, HF10, TFP4 and TFP6	HF09, HF10, TFP4 and TFP6	HF09, HF10, TFP4 and TFP6
Exhaust Grille Models	HG09, HG10, TEP4 and TEP6	HG09, HG10, TEP4 and TEP6	HG09, HG10, TEP4 and TEP6
Unit Construction			
Material	Galvanized	Galvanized	Stainless Steel #304
Finish	RAL 7035 polyester powder coat paint	ANSI 61 polyester powder coated paint	N/A
Unit Dimensions H x W x D (in./mm)	15.00 x 12.00 x 3.81/381 x 305 x 97	15.00 x 12.00 x 3.81/381 x 305 x 97	15.00 x 12.00 x 3.81/381 x 305 x 97
HH13 Models			
Catalog Number	**HH13GS35001**	**HH13GS61001**	**HH13SS04001**
Provides protection for:			
Filter Fan Models	HF13 and TFP10	F13 and TFP10H	HF13 and TFP10
Exhaust Grille Models	HG13 and TEP10	HG13 and TEP10	HG13 and TEP10
Unit Construction			
Material	Galvanized	Galvanized	Stainless Steel #304
Finish	RAL 7035 polyester powder coat paint	ANSI 61 polyester powder coated paint	N/A
Unit Dimensions H x W x D (in./mm)	18.00 x 15.00 x 4.76/457 x 381 x 121	18.00 x 15.00 x 4.76/457 x 381 x 121	18.00 x 15.00 x 4.76/457 x 381 x 121

HF REPLACEMENT FILTERS

- Type 12 / IP54 filter option provides protection against dust infiltration (6 filters per package)
- IP55 filter adds additional protection against moisture
- See individual product pages for catalog and item numbers to order

CATALOG NUMBERS	FITS FAN PACKAGES
89134423R	All HF04 Models
89134424R	All HF05 IP54 Models
89136408R	All HF05 IP55 Models
89134425R	All HF09 IP54 Models
89136409R	All HF09 IP55 Models
89134426R	All HF10 IP54 Models
89136410R	All HF10 IP55 Models
89134427R	All HF13 IP54 Models
89136411R	All HF13 IP55 Models

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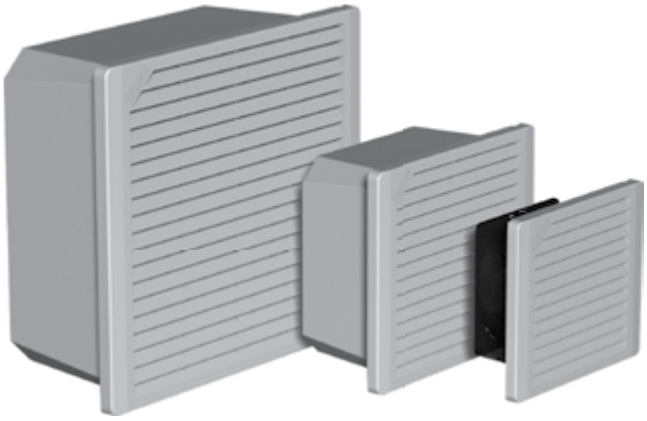
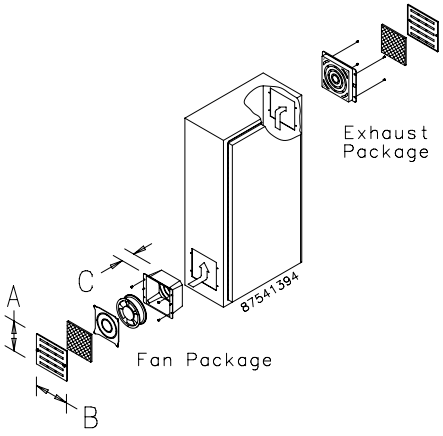
TFP SIDE-MOUNT FANS





TFP10
215 CFM
(365 m^3/hr.)

TFP6
140 CFM
(238 m^3/hr.)

TFP4
55 CFM
(93 m^3/hr.)

INDUSTRY STANDARDS

UL 508A Component Recognized; File No. E61997
TFP# Models: Type 1
TFP# UL 12 Models: Type 12

CSA certified (fan only)
CE

APPLICATION

- Industrial automation
- Automotive assembly
- Package handling equipment
- Food and beverage process controlls
- Wind energy systems

FEATURES

- Cooling Fan Package includes fan, air filter, composite air plenum, finger guard and grille
- Exhaust Package includes air filter, filter retainer with integral finger guard and grille
- EMC Upgrade Kit includes a grille standoff collar and a special EMC shielding grille
- Reliable cooling for enclosures with limited space requiring simple filtered airflow for basic cooling
- 24 VDC, 115 VAC and 230 VAC options available
- Washable foam (Type 1) or disposable (Type 12) filter in fan
- Dynamically-balanced fan impellers molded from polycarbonate material
- 4-in. fan is thermally protected and uses permanently-lubricated ball bearings
- 6- and 10-in. fans have ball bearing construction and split-capacitor motors that are thermally protected to avoid premature failure
- Fans have lead wires for power connection with ends stripped 1/2 in. (12 mm)
- All mounting hardware and installation instructions are furnished

SPECIFICATIONS

- Free airflow from 45 CFM (76 m^3/hr.) to 215 CFM (365 m^3/hr.)
- Maximum operating temperature 158 F / 70 C
- Engineered for 50,000 hours of continuous operation without lubrication or service (a monthly maintenance schedule is recommended to ensure optimal cooling performance)

FINISH

- Stainless steel grilles have brushed finish.
- ABS composite grille is black.

ACCESSORIES

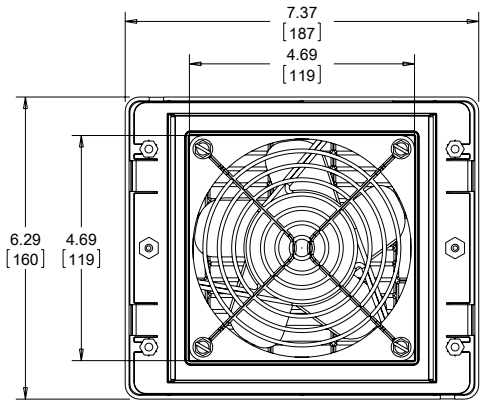
TFP Exhaust Grilles, page 1198
TFP Optional Grilles and Replacement Filters, page 1198
TFP EMC Upgrade Kit, page 1199

Performance Data **TFP4 Models**

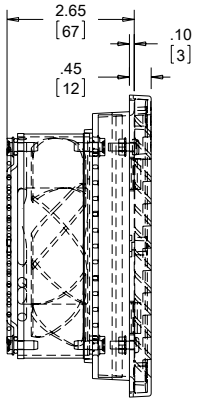
ELECTRICAL DATA			
Rated Voltage	**24 VDC**	**115 VAC**	**230 VAC**
Frequency (Hz)		50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.35	.26/.21	.14/.11
Power Consumption Maximum @ 50/60 Hz (Watts)	8.4	17/15	16/14
Power Connection		Stripped Leadwires	
CATALOG NUMBERS			
Composite Type 1			
Catalog Number	**TFP424**	**TFP41**	**TFP42**
Stainless Steel Type 1			
Catalog Number	—	**TFP41SS**	**TFP42SS**
Composite Type 12			
Catalog Number	—	**TFP41UL12**	**TFP42UL12**
Free Airflow @ 50/60 Hz (CFM)*	55	45/55	45/55
Free Airflow @ 50/60 Hz (m^3/hr.)*	93	76/93	76/93
UNIT CONSTRUCTION			
Noise SIL @ 50/60 Hz (dBA)	65	37/41	37/41
Maximum Operating Temperature (°F/°C)		158/70	
Unit Dimensions - H x W x D (in./mm)		6.29 x 7.37 x 2.65/160 x 187 x 67	
Cutout Dimensions - H x W (in./mm)		5.66 x 5.66/144 x 144	
Weight (lb./kg)	4.2/1.90	4.2/1.90	4.3/1.95
EXHAUST GRILLE CATALOG NUMBERS			
Composite Type 1			
Catalog Number		**TEP4**	
Stainless Steel Type 1			
Catalog Number		**TEP4SS**	
Composite Type 12			
Catalog Number		**TEP4UL12**	

*CFM with single exhaust grille installed.

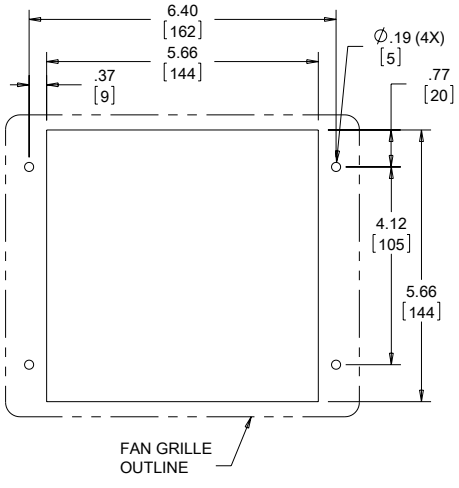
TFP4 Models



BACK VIEW

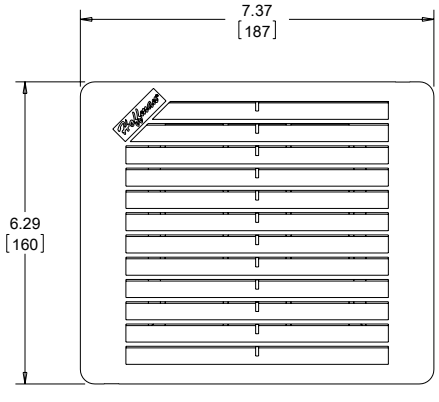


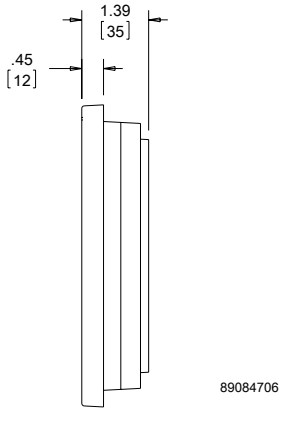
SIDE VIEW



CUTOUT DIMENSIONS

TEP4 EXHAUST GRILLE





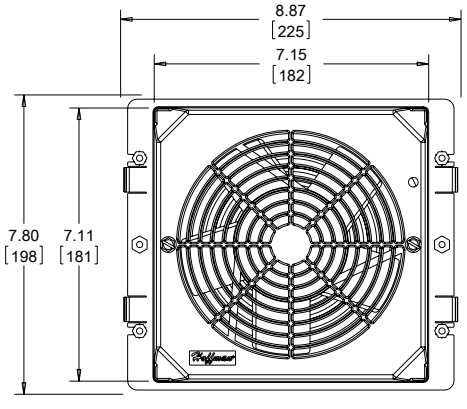
Exhaust grille included with fan package

Performance Data **TFP6 Models**

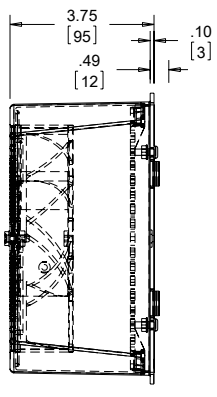
ELECTRICAL DATA			
Rated Voltage	**24 VDC**	**115 VAC**	**230 VAC**
Frequency (Hz)		50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.88	.45/.36	.23/.18
Power Consumption Maximum @ 50/60 Hz (Watts)	21.1	36/32	39/35
Power Connection		Stripped Leadwires	
CATALOG NUMBERS			
Composite Type 1			
Catalog Number	**TFP624**	**TFP61**	**TFP62**
Stainless Steel Type 1			
Catalog Number	—	**TFP61SS**	**TFP62SS**
Composite Type 12			
Catalog Number	—	**TFP61UL12**	**TFP62UL12**
Free Airflow @ 50/60 Hz (CFM)*	140	117/140	117/140
Free Airflow @ 50/60 Hz (m^3/hr.)*	238	199/238	199/238
UNIT CONSTRUCTION			
Noise SIL @ 50/60 Hz (dBA)	62.5	50/56	50/56
Maximum Operating Temperature (°F/°C)		158/70	
Unit Dimensions - H x W x D (in./mm)		7.80 x 8.87 x 3.75/198 x 225 x 95	
Cutout Dimensions - H x W (in./mm)		7.16 x 7.16/182 x 182	
Weight (lb./kg)	5.3/2.40	5.3/2.40	5.4/2.45
EXHAUST GRILLE CATALOG NUMBERS			
Composite Type 1			
Catalog Number		**TEP6**	
Stainless Steel Type 1			
Catalog Number		**TEP6SS**	
Composite Type 12			
Catalog Number		**TEP6UL12**	

*CFM with single exhaust grille installed.

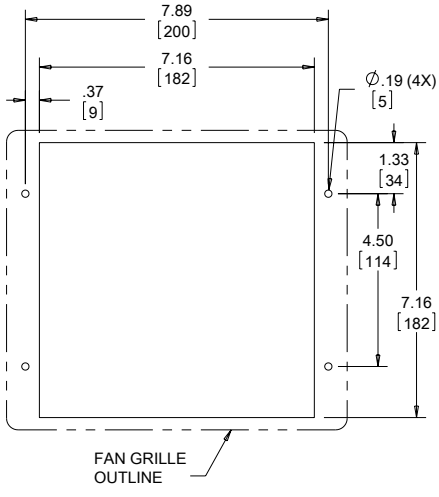
TFP6 Models



BACK VIEW

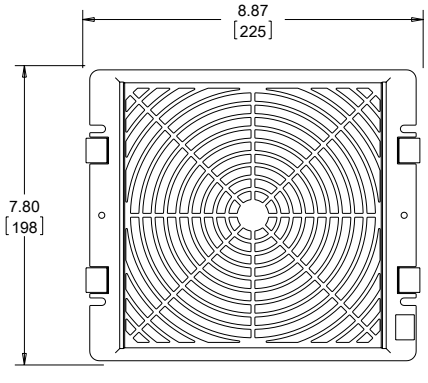


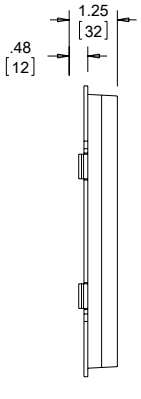
SIDE VIEW



CUTOUT DIMENSIONS

TEP6 EXHAUST GRILLE





Exhaust grille included with fan package

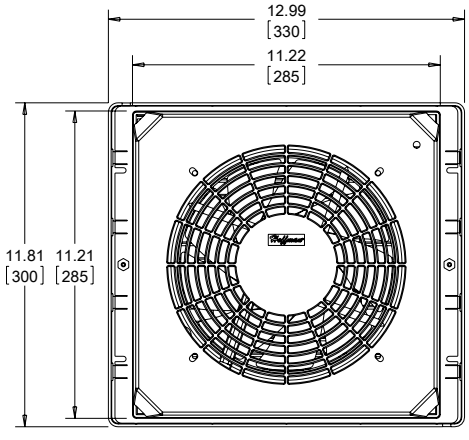
89084710

Performance Data **TFP10 Models**

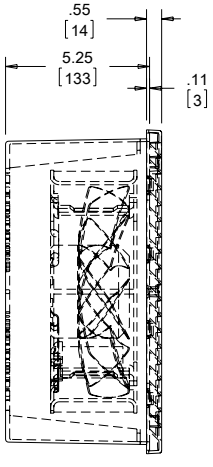
ELECTRICAL DATA		
Rated Voltage	**115 VAC**	**230 VAC**
Frequency (Hz)	50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.58/.70	.29/.35
Power Consumption Maximum @ 50/60 Hz (Watts)	64/80	64/80
Power Connection	Stripped Leadwires	
CATALOG NUMBERS		
Composite Type 1		
Catalog Number	**TFP101**	**TFP102**
Stainless Steel Type 1		
Catalog Number	**TFP101SS**	**TFP102SS**
Composite Type 12		
Catalog Number	**TFP101UL12**	**TFP102UL12**
Free Airflow @ 50/60 Hz (CFM)*	180/215	180/215
Free Airflow @ 50/60 Hz (m^3/hr.)*	306/365	306/365
UNIT CONSTRUCTION		
Noise SIL @ 50/60 Hz (dBA)	54/61	54/61
Maximum Operating Temperature (°F/°C)	167/75	167/75
Unit Dimensions - H x W x D (in./mm)	11.81 x 12.99 x 5.25/300 x 330 x 133	
Cutout Dimensions - H x W (in./mm)	11.16 x 11.16/283 x 283	
Weight (lb./kg)	12.0/5.44	11.4/5.17
EXHAUST GRILLE CATALOG NUMBERS		
Composite Type 1		
Catalog Number	**TEP10**	
Stainless Steel Type 1		
Catalog Number	**TEP10SS**	
Composite Type 12		
Catalog Number	**TEP10UL12**	

*CFM with single exhaust grille installed.

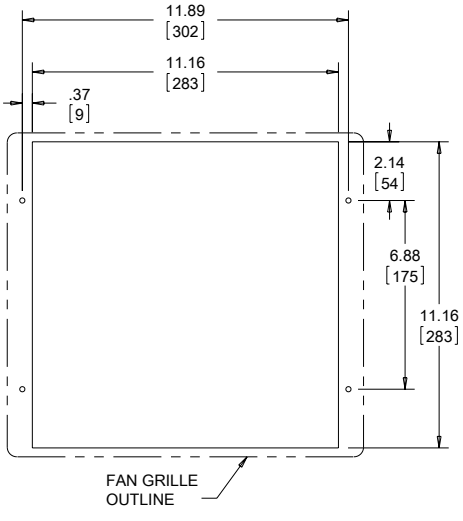
TFP10 Models



BACK VIEW

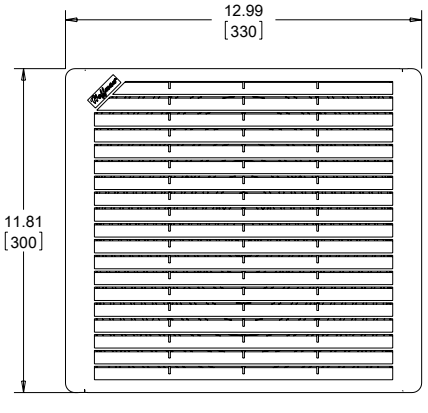


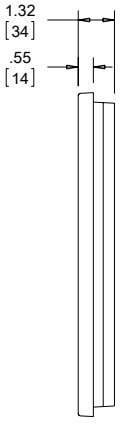
SIDE VIEW



CUTOUT DIMENSIONS

TEP10 EXHAUST GRILLE





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Exhaust grille included with fan package

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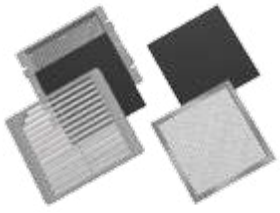
TFP EXHAUST GRILLES

CATALOG NUMBERS	Nominal Fan Size
TEP4 Models	
TEP4	4
TEP4SS	4
TEP4UL12	4
TEP6 Models	
TEP6	6
TEP6SS	6
TEP6UL12	6
TEP10 Models	
TEP10	10
TEP10SS	10
TEP10UL12	10

TFP OPTIONAL GRILLES AND REPLACEMENT FILTERS



Optional grilles offer the choice of stainless steel or black ABS plastic. These grilles replace the standard RAL 7035 gray composite or stainless steel grilles on both fan and exhaust packages. Standard replacement filters are washable foam (Type 1) or disposable (Type 12). To maintain UL Type 12 rating on the enclosure, UL Type 12 filters must be used on the fan package inlet. Washable aluminum filters are also available. Aluminum filters are compatible with Type 1 systems only.
Type 12 air filters are not washable.

CATALOG NUMBERS	Description	Fits Fan and Exhaust Nominal Size	Fits Fan and Exhaust Grill Size (in./mm)
4-inch Fan Models			
TG4SS	Brushed stainless steel grille	4	6.29 x 7.31 x .81 160 x 186 x 21
TG4B	Black ABS plastic grille	4	6.29 x 7.37 x .81 160 x 187 x 21
AFLTR4	Type 1 filter replacement (5/package)	4	—
AFLTR4AL	Aluminum filter replacement (5/package)	4	—
TFLT4UL12	Type 12 filter replacement (5/package)	4	—
6-inch Fan Models			
TG6SS	Brushed stainless steel grille	6	7.80 x 8.81 x .75 198 x 224 x 19
TG6B	Black ABS plastic grille	6	7.80 x 8.87 x .49 198 x 225 x 12
AFLTR6	Foam filter replacement (5/package)	6	—
AFLTR6AL	Aluminum filter replacement (5/package)	6	—
TFLT6UL12	UL 12 filter replacement (5/package)	6	—
10-inch Fan Models			
TG10SS	Brushed stainless steel grille	10	11.81 x 12.92 x .75 300 x 328 x 19
TG10B	Black ABS plastic grille	10	11.81 x 12.99 x .75 300 x 330 x 19
AFLTR10	Foam filter replacement (5/package)	10	—
AFLTR10AL	Aluminum filter replacement (5/package)	10	—
TFLT10UL12	UL 12 filter replacement (5/package)a	10	—

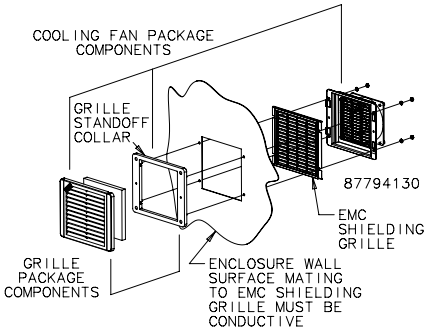
Replacement filter for Type 12 fan package only (models TFF__UL12). For Type 12 exhaust package use replacement filter AFLTRX.
Filters fit all fan and exhaust packages according to their size.

TFP EMC UPGRADE KIT

With the addition of this kit, the cooling fan and exhaust packages are upgraded to provide EMC (electromagnetic compatibility) protection. Consult Hoffman for shielding effectiveness (dB attenuation vs. frequency).

Separate kits must be installed on both the inlet and outlet. Cooling fan and exhaust package must be ordered separately. EMC upgrade kit will not work with stainless steel grille option.

CATALOG NUMBERS	Fits Cooling Fan Package	Fits Exhaust Grille
4-inch Fan Models		
T4EMC	TFP42	TEP4
6-inch Fan Models		
T6EMC	TFP62	TEP6
10-inch Fan Models		
T10EMC	TFP102	TEP10



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OUTDOOR FILTER FAN AND EXHAUST PACKAGE

INDUSTRY STANDARDS

cURus Type 12; File No. E234324

NEMA Type 3R
IEC/EN60529, IP55
CE

FEATURES

- Ball bearing axial fan, service life minimum 50,000 hours at 77 F (25 C) and 65 percent RH
- Airflow 11.8 CFM (20 cubic meters/hour) free blowing
- High-impact plastic is highly weatherproof and resistant to UV light
- Removable F5 filter
- Lockable door in hood
- Two-sided tape provided
- Filter hood permanently fixed to enclosure from inside
- 2 lead wires, 3.94-in. (100-mm) long, with pressure clamps, 14 gauge max. (2.5 mm)
- Synthetic filter material, temperature resistant to 212 F (100 C), self-extinguishing class F1, moisture resistant to 100 percent RH
- Filter mat: Fine grade F5 to DIN EN779 filtering degree: 98 percent of particles larger than 10 µm (10 microns)

SPECIFICATIONS

- Aluminum fan body, plastic impeller

FINISH

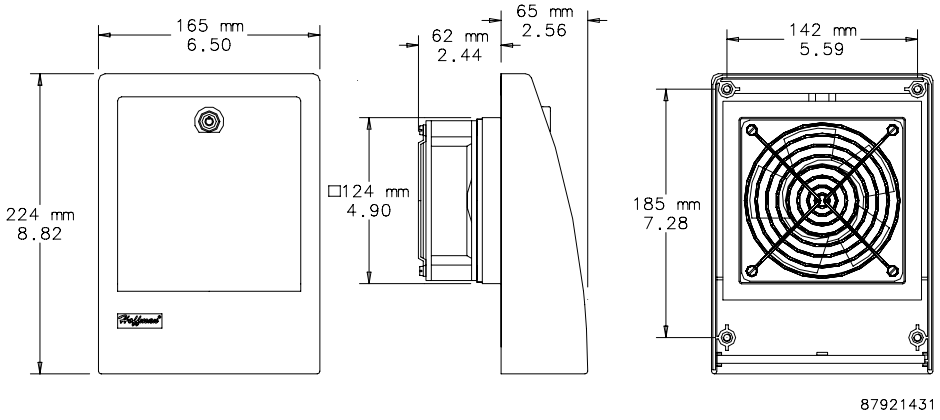
- Light gray plastic, UL94H-B

NOTES

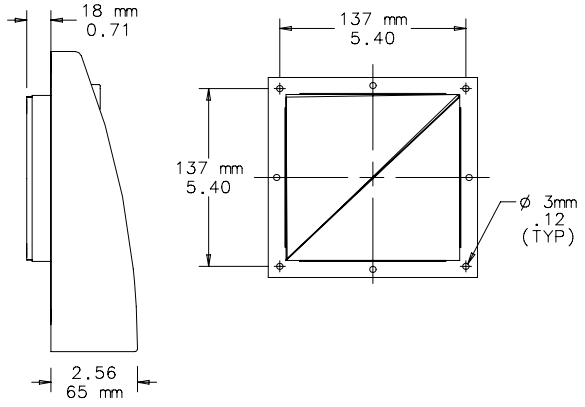
This fan package meets basic requirements for outdoor or indoor applications that require warm air dissipation.

ELECTRICAL DATA	
Rated Voltage	**120 VAC**
Frequency (Hz)	60
Full Load (Amps)	0.3
FILTER FAN	
Catalog Number	**AOFF118**
UNIT CONSTRUCTION	
External Mounting Depth (in./mm)	2.56/65
Internal Mounting Depth (in./mm)	2.44/62
Enclosure Cutout (in./mm)	4.92 x 4.92 / 125 x 125
EXHAUST GRILLE	
Catalog Number	**AOEFG118**
ACCESSORIES	
Replacement Filters:	
Catalog Number	**AOFILTER**
Description	Filter Mat, F5 (3 per package)
Filter Size (in./mm)	4.80 x 4.80 / 122 x 122

Outdoor Filter Fan and Exhaust Package



FILTER FAN



EXHAUST FILTER

MOUNTING FRAME

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COMPACT AXIAL FANS

INDUSTRY STANDARDS

UL Component Recognized

APPLICATION

Compact Cooling Fans are ideal for applications where enclosure space is limited and quiet, reliable cooling is required. Engineered for 50,000 hours of continuous operation without lubrication or service.

Installation

Can be installed on any surface of an enclosure. With the addition of accessory fan brackets, Compact Cooling Fans can also be installed in any position inside the enclosure for spot cooling or air circulation.

FEATURES

- Maximum operating temperature is 158 F (70 C)
- 4-in. fan is thermally protected and uses permanently lubricated ball bearings
- 6- and 10-in. fans have ball-bearing construction and split-capacitor motors
- Split-capacitor motors are thermally protected to avoid premature failure
- Dynamically balanced impellers molded from polycarbonate material
- One finger guard is furnished (additional finger guards are available)
- All mounting hardware is provided
- 240 and 560 CFM fans have ball bearing construction and split capacitor motors
- Fans have leadwires with ends stripped 1/2-in. (12-mm) or 6-ft. (1.8-m) cord with polarized plug for power connections

Fan bracket and additional finger guards must be purchased separately

FINISH

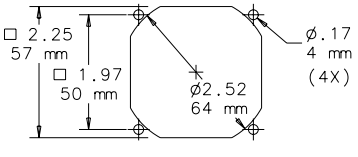
- Fan housing is black.

ACCESSORIES

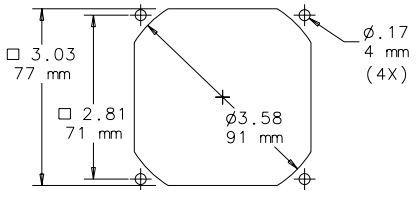
Fan Cords, page 1204
Fan Cords With Inline Thermostat, page 1204
Fan Filter and Finger Guard Kit, page 1204
Fan Brackets, page 1205
Finger Guards, page 1205

Design Data **Compact Axial Fans**

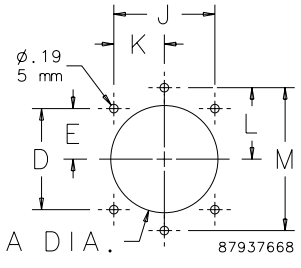
CATALOG NUMBERS	Nominal Size	Voltage	A in./mm	D in./mm	E in./mm	J in./mm	K in./mm	L in./mm	M in./mm
A2AXFN24	2	24 VDC	—	1.97/50	.98/25	1.97/50	.98/25	—	—
3-in. Fans									
A3AXFN	3	115 VAC	—	2.81/71	1.40/36	2.81/71	1.40/36	—	—
A3AXFN24	3	24 VDC	—	2.81/71	1.40/36	2.81/71	1.40/36	—	—
4-in. Fans									
A4AXFNGQ	4	115 VAC	4.62/117	4.12/105	2.06/52	4.12/105	2.06/52	—	—
A4AXFNPG	4	115 VAC	4.62/117	4.12/105	2.06/52	4.12/105	2.06/52	—	—
A4AXFN	4	115 VAC	4.62/117	4.12/105	2.06/52	4.12/105	2.06/52	—	—
A4AXFN2	4	230 VAC	4.62/117	4.12/105	2.06/52	4.12/105	2.06/52	—	—
A4AXFN24	4	24 VDC	4.62/117	4.12/105	2.06/52	4.12/105	2.06/52	—	—
6-in. Fans									
A6AXFNGQ	6	115 VAC	5.88/149	—	—	—	—	3.19/81	6.38/162
A6AXFNPG	6	115 VAC	5.88/149	—	—	—	—	3.19/81	6.38/162
A6AXFN	6	115 VAC	5.88/149	—	—	—	—	3.19/81	6.38/162
A6AXFN2	6	230 VAC	5.88/149	—	—	—	—	3.19/81	6.38/162
A6AXFN24	6	24 VDC	5.88/149	—	—	—	—	3.19/81	6.38/162
10-in. Fans									
A10AXFNPG	10	115 VAC	9.00/229	6.85/174	3.44/87	6.85/174	3.44/87	—	—
A10AXFN	10	115 VAC	9.00/229	6.85/174	3.44/87	6.85/174	3.44/87	—	—
A10AXFN2	10	230 VAC	9.00/229	6.85/174	3.44/87	6.85/174	3.44/87	—	—



MOUNTING CUTOUT
DIMENSIONS 2 INCH



MOUNTING CUTOUT
DIMENSIONS 3 INCH



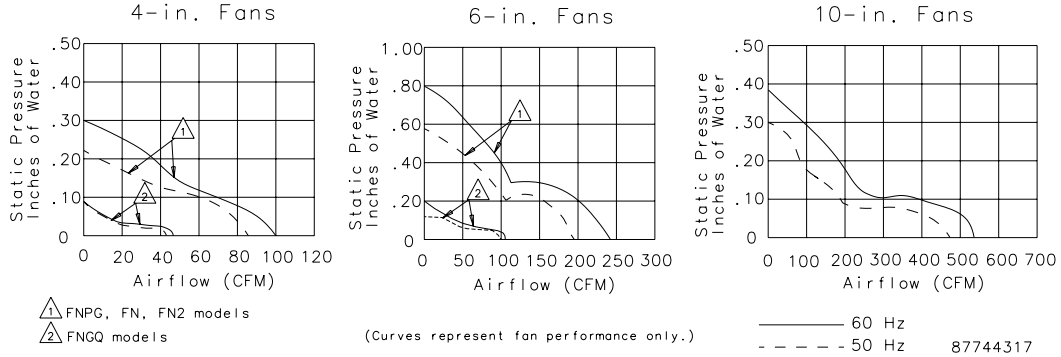
MOUNTING CUTOUT
DIMENSIONS 4,6,10 INCH

Performance Data **Compact Axial Fans**

ELECTRICAL DATA Rated Voltage	24 VDC	115 VAC Lead Wires	115 VAC Power Cord Quiet Fan	115 VAC Power Cord	230 VAC Lead Wires
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power Connection	Lead Wires	Lead Wires	Power Cord	Power Cord	Lead Wires
2 inch Nominal-Size Fans					
Catalog Number	**A2AXFN24**	—	—	—	—
Nominal Current Maximum @50/60 Hz (Amps)	.09	—	—	—	—
Power Consumption Maximum @ 50/60 Hz (Watts)	2.16	—	—	—	—
Free Airflow @ 50/60 Hz (CFM)*	21.5	—	—	—	—
Free Airflow @ 50/60 Hz (m^3/hr.)*	36.5	—	—	—	—
Noise SIL @ 50/60 Hz (dBA)	65	—	—	—	—
Maximum RPM @50/60 Hz (RPM)	4550	—	—	—	—
Fan Size Diameter (in.)	2.36	—	—	—	—
Fan Depth (in.)	.98	—	—	—	—
3 inch Nominal-Size Fans					
Catalog Number	**A3AXFN24**	**A3AXFN**	—	—	—
Nominal Current Maximum @50/60 Hz (Amps)	.14	.09	—	—	—
Power Consumption Maximum @ 50/60 Hz (Watts)	3.36	7	—	—	—
Free Airflow @ 50/60 Hz (CFM)*	40	27	—	—	—
Free Airflow @ 50/60 Hz (m^3/hr.)*	68	46	—	—	—
Noise SIL @ 50/60 Hz (dBA)	35	40	—	—	—
Maximum RPM @50/60 Hz (RPM)	3400	2700	—	—	—
Fan Size Diameter (in.)	3.15	3.15	—	—	—
Fan Depth (in.)	.98	1.50	—	—	—
4 inch Nominal-Size Fans					
Catalog Number	**A4AXFN24**	**A4AXFN**	**A4AXFNGQ**	**A4AXFNPG**	**A4AXFN2**
Nominal Current Maximum @50/60 Hz (Amps)	.35	.26/.21	.09/.08	.26/.21	.14/.11
Power Consumption Maximum @ 50/60 Hz (Watts)	84	17/15	6/5	17/15	16/14
Free Airflow @ 50/60 Hz (CFM)*	118	85/100	46/49	85/100	85/100
Free Airflow @ 50/60 Hz (m^3/hr.)*	200	144/170	78/83	144/170	144/170
Noise SIL @ 50/60 Hz (dBA)	46.5	37/41	27/28	37/41	37/41
Maximum RPM @50/60 Hz (RPM)	3200	2415/2900	1350/1450	2415/2900	2415/2900
Fan Size Diameter (in.)	4.69	4.69	4.69	4.69	4.69
Fan Depth (in.)	1.52	1.52	1.52	1.52	1.52
6 inch Nominal-Size Fans					
Catalog Number	**A6AXFN24**	**A6AXFN**	**A6AXFNGQ**	**A6AXFNPG**	**A6AXFN2**
Nominal Current Maximum @50/60 Hz (Amps)	.88	.45/.36	.16/.19	.45/.36	.23/.18
Power Consumption Maximum @ 50/60 Hz (Watts)	21.1	36/32	16/18	36/32	39/35
Free Airflow @ 50/60 Hz (CFM)*	280	200/240	85/102	200/240	200/240
Free Airflow @ 50/60 Hz (m^3/hr.)*	476	340/408	144/173	340/408	340/408
Noise SIL @ 50/60 Hz (dBA)	62.5	50/56	35/38	50/56	50/56
Maximum RPM @50/60 Hz (RPM)	3750	2670/3200	1400/1650	2670/3200	2670/3200
Fan Size Diameter (in.)	6.77	6.77	6.77	6.77	6.77
Fan Depth (in.)	2.00	1.50	1.50	1.50	1.50
10 inch Nominal-Size Fans					
Catalog Number	—	**A10AXFN**	**—**	**A10AXFNPG**	**A10AXFN2**
Nominal Current Maximum @50/60 Hz (Amps)	—	1.0/.88	—	1.0/.88	.47/.43
Power Consumption Maximum @ 50/60 Hz (Watts)	—	36/36	—	36/36	36/36
Free Airflow @ 50/60 Hz (CFM)*	—	480/560	—	480/560	480/560
Free Airflow @ 50/60 Hz (m^3/hr.)*	—	816/951	—	816/951	816/951
Noise SIL @ 50/60 Hz (dBA)	—	46/49	—	46/49	46/49
Maximum RPM @50/60 Hz (RPM)	—	1350/1650	—	1350/1650	1350/1650
Fan Size Diameter (in.)	—	10.00	—	10.00	10.00
Fan Depth (in.)	—	3.50	—	3.50	3.50

* CFM without exhaust grille

Performance Curves for Compact Axial Fans



FAN CORDS

Used to power Compact Cooling Fans when positive ground of the cabinet case is required. Available with connectors for one or two fans. Five-foot (1.52-meter) cord with grounded three-prong plug. Fits A4AXFNPG, A6AXFNPG, A10AXFNPG, A4AXFNGQ and A10AXFNGQ.

CATALOG NUMBERS		
	ACORD1	ACORD2
DESIGN DATA		
Description	One connector	Two connectors

FAN CORDS WITH INLINE THERMOSTAT

Use to power 120 VAC Compact Cooling Fans; replaces existing supplied power cord. Fan cord includes inline thermostat. The cord automatically activates up to two fans. Fan(s) will turn on when the inline thermostat reaches 86F (30C). Fan(s) will run only when temperature is above 86F (30C). Use with 110-120 VAC fans with power cords only. One or two fans can be used with power cord.

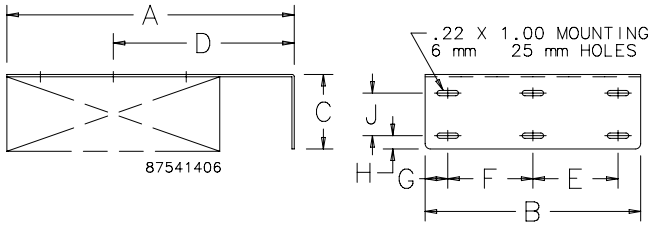
ELECTRICAL DATA	
Rated Voltage	**110-120 VAC**
Maximum Current (Amps)	10
Fan Activation Temperature (°F/°C)	86/30
CATALOG NUMBERS	
	ACORD2T

FAN FILTER AND FINGER GUARD KIT

CATALOG NUMBERS		
	AFLTR4LD	AFLTR6LD
DESIGN DATA		
Description	Fan Filter and Finger Guard Kit	
Fits	4-in. fans	6-in. fans

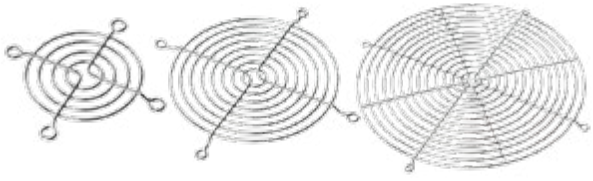
FAN BRACKETS

Designed to provide easy mounting of compact axial fans on enclosure panels. Brackets can be used for general air circulation or to direct air at problem areas. All sizes are .100-in. aluminum. Package quantity of 1 bracket. Fans must be ordered separately.



CATALOG NUMBERS	AxBxC in./mm	Used with Fan Catalog Number	D in./mm	E in./mm	F in./mm	G in./mm	H in./mm	J in./mm
ABRKT2	3.75x2.75x1.50 95x70x38	A2AXFN24	2.38/60	—	1.75/44	.50/13	.37/9	.62/16
ABRKT3	4.50x3.50x1.50 114x89x38	A3AXFN, A3AXFN24	2.75/70	—	2.50/64	.50/13	.37/9	.62/16
ABRKT4	6.00x5.00x1.50 152x127x38	A4AXFNPG, A4AXFNGQ, A4AXFN or A4AXFN2	3.50/89	—	3.00/76	1.00/25	.38/10	.62/16
ABRKT6	10.00x6.88x2.00 254x175x51	A6AXFNPG, A6AXFNGQ, A6AXFN or A6AXFN2	6.50/51	—	5.00/127	.94/24	.38/10	1.00/25
ABRKT10	13.50x10.12x3.50 343x257x89	A10AXFNPG, A10AXFNGQ, A10AXFN or A10AXFN2	8.50/216	4.00/102	4.00/102	1.06/27	.62/16	2.00/51

FINGER GUARDS



One finger guard is included with each Compact Axial Fan and Cooling Fan Package. Additional Finger Guards can be mounted on either side of the fan for maximum safety. All guards are chrome-plated and meet UL 507 .25-in. plug gauge test.

CATALOG NUMBERS	Use on Compact Axial Fan Catalog Numbers
AGARD2	A2AXFN24
AGARD3	A3AXFN, A3AXFN24
AGARD4	A4AXFNPG, A4XFNGQ, A4AXFN, A4AXFN2
AGARD6	A6AXFNPG, A6AXFNGQ, A6AXFN, A6AXFN2
AGARD10	A10AXFNPG, A10AXFNQR , A10AXFN, A10AXFN2

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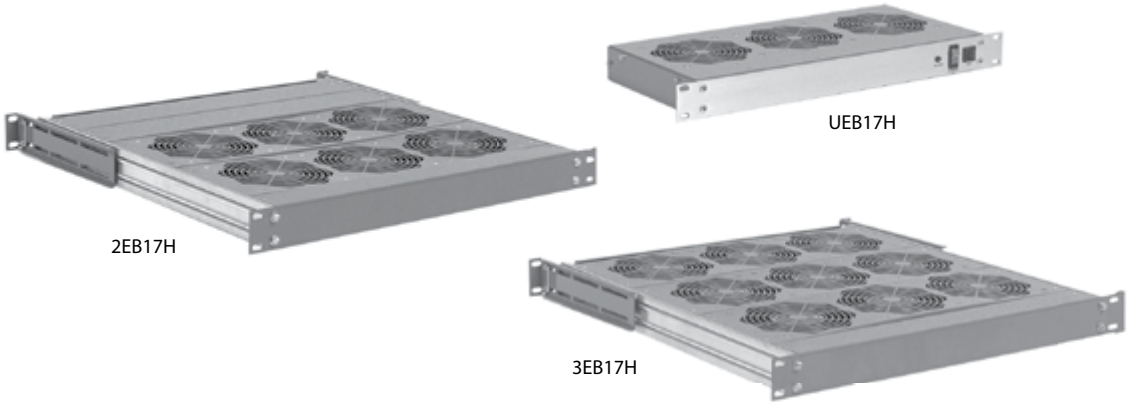
RACK-MOUNTABLE ASSEMBLIES



INDUSTRY STANDARDS

UL recognized

- CSA Certified Motors
- CE

APPLICATION

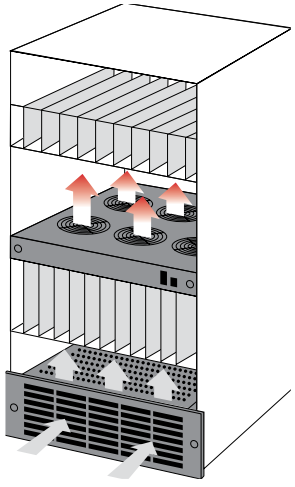
Fan trays are a versatile solution to cooling card cages and racks. Redundant cooling with optional failure detection makes this air mover the obvious choice for sensitive equipment. Minimal rack space and repositionable fans are suited to today's smaller enclosures.

FEATURES

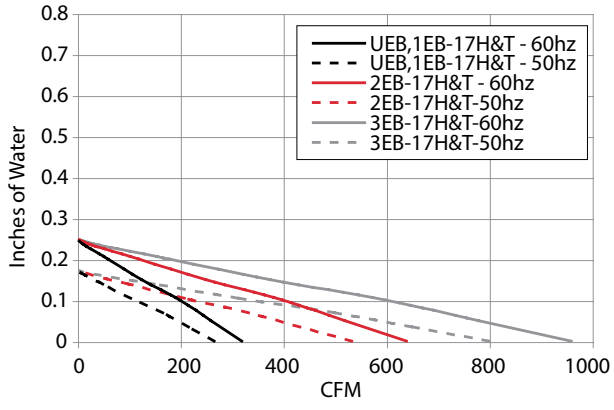
- Slim 1.75 in. (44 mm) Panel Height
- 19-in. rack mountable
- Field adjustable fan strips to optimize air flow
- Easy access to fan tray from front and back
- Simplified installation without the need for side access
- Support bracket
- Exhaust Guard
- 6-inch Power Cord AC trays, Terminal block on DC trays
- Permanently lubricated ball bearing motors
- 100% functionally tested

SPECIFICATIONS

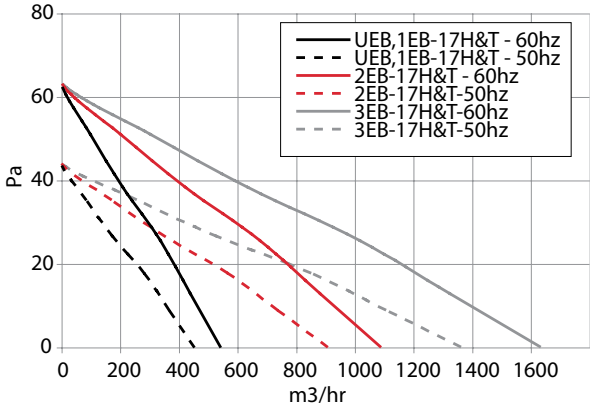
- 115/230 VAC
- 24 VDC
- 50/60 Hz

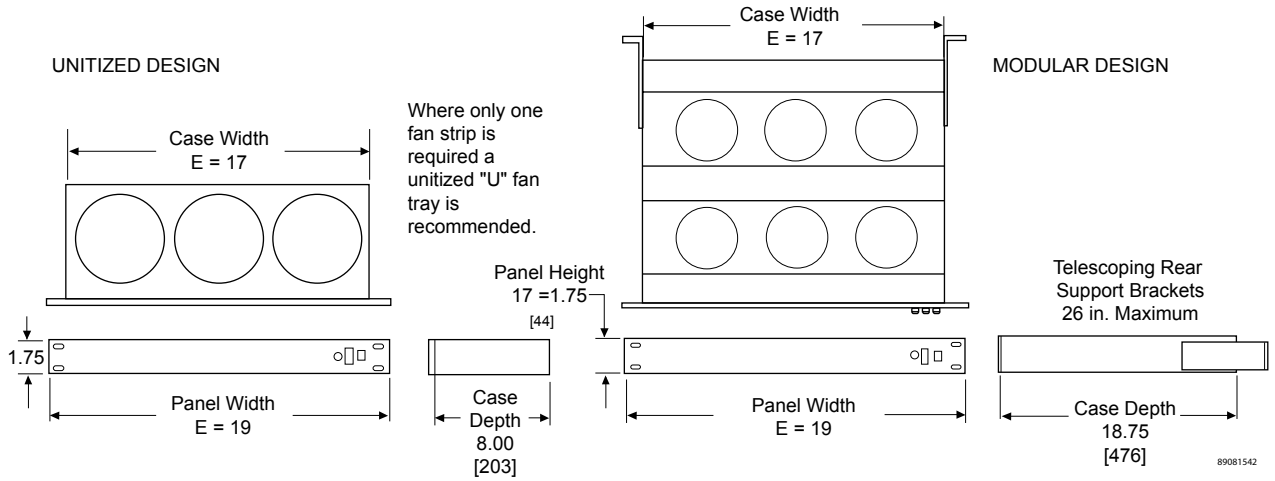


Performance Curves (Inches of Water to CFM)



Performance Curves (Pa to m3/hr)





Performance Data **Rack-Mountable Assemblies**

ELECTRICAL DATA			
Rated Voltage	**115 VAC**	**230 VAC**	**24 VDC**
Frequency (Hz)	50/60	50/60	DC
RPM	3100	3100	3000
Nominal Current Maximum (Amps)	0.4	0.2	0.8
Power Consumption Maximum (Watts)	42	42	21
Maximum Operating Temperature (°F/°C)		158/70	
UEB17H			
Catalog Numbers	**UEB17H115**	**UEB17H230**	**UEB17H24**
Nominal Current Maximum @50/60 Hz (Amps)	.4	.2	.8
Power Consumption Maximum @ 50/60 Hz (Watts)	42	42	21
Free Airflow @ 50/60 Hz (CFM)*	315	315	330
Free Airflow @ 50/60 Hz (m^3/hr.)*	536	536	561
Number of Fans		3	
Unit Dimensions H x W x D (In./mm)		1.75 x 19.00 x 8.00/44 x 482 x 203	
Weight (lb./kg)	7.8/3.4	7.8/3.4	7.6/3.3
2EB17H			
Catalog Numbers	**2EB17H115**	**2EB17H230**	—
Nominal Current Maximum @50/60 Hz (Amps)	.9	.5	—
Power Consumption Maximum @ 50/60 Hz (Watts)	84	84	—
Free Airflow @ 50/60 Hz (CFM)*	630	630	—
Free Airflow @ 50/60 Hz (m^3/hr.)*	1071	1071	—
Number of Fans		6	—
Unit Dimensions H x W x D (In./mm)		1.75 x 19.00 x 18.75/44 x 482 x 476	—
Weight (lb./kg)	10.2/4.5	10.2/4.5	—
3EB17H			
Catalog Numbers	**3EB17H115**	**3EB17H230**	—
Nominal Current Maximum @50/60 Hz (Amps)	1.4	.8	—
Power Consumption Maximum @ 50/60 Hz (Watts)	126	126	—
Free Airflow @ 50/60 Hz (CFM)*	945	945	—
Free Airflow @ 50/60 Hz (m^3/hr.)*	1607	1607	—
Number of Fans		9	—
Unit Dimensions H x W x D (In./mm)		1.75 x 19.00 x 18.75/44 x 482 x 476	—
Weight (lb./kg)	12.5/5.5	12.5/5.5	—

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19-IN. RACK-MOUNTABLE TRAY

APPLICATION

Fan trays enhance the natural convection airflow within a cabinet when installed with other 19-in. rack-mount equipment.

FEATURES

- Fan trays available with either three or six 4-in. fans
- Includes 72-in. (1829-mm) power cord with IEC 320 standard power socket
- Power cord plugs into standard 115 VAC outlet
- Lighted rocker switch provides on-off control and indicates when fans are on

FINISH

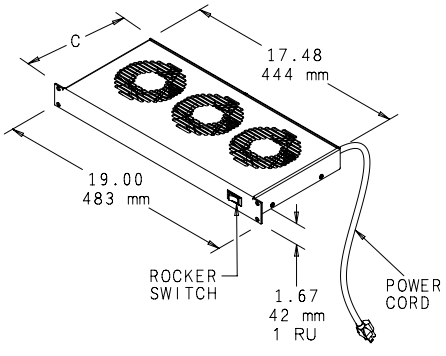
- RAL 9005 black, lightly textured polyester powder paint

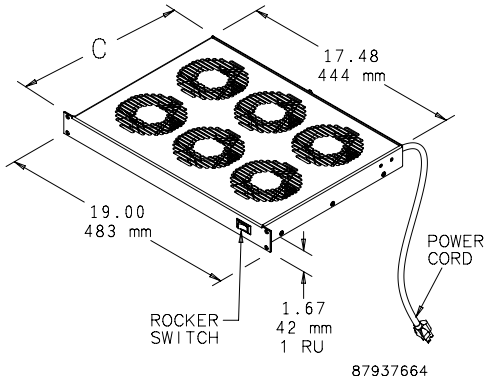
ACCESSORIES

Rack-Mount Fan Speed Control, page 1209

Performance Data **19-in. Rack-Mountable Tray**

ELECTRICAL DATA		
Rated Voltage	**115**	**115**
Frequency (Hz)	60	60
Power Consumption (Watts)	45	90
CATALOG NUMBERS		
	A19FT3B	**A19FT6B**
Maximum Airflow (CFM)	253	506
Maximum Airflow (m^3/hr.)	430	860
Nominal Airflow Capacity (CFM)	102	102
Nominal Airflow Capacity (m^3/hr.)	173	173
UNIT CONSTRUCTION		
Sound Pressure (dBA)	41	41
Maximum Operating Temperature Range (°F/°C)	158/70	158/70
Maximum Static Pressure (in. WC)	0.27	0.27
Number of Fans	3	6
C (in./mm)	8.10/206	12.96/329





RACK-MOUNT FAN SPEED CONTROL

APPLICATION

Perfect for offices, classrooms and other noise-sensitive areas. Fan Speed Control optimizes airflow in a cabinet or rack, balancing air volume requirements with noise level and power use.

FEATURES

- Continuously variable fan speed control knob with minimum speed adjustment
- Uses 1 RU rack space
- Steel construction
- Two NEMA 5-15R outlets provide power to fan
- Six-foot (1.83-m) power cord plugs into standard 120 V 60 Hz outlet

INDUSTRY STANDARDS

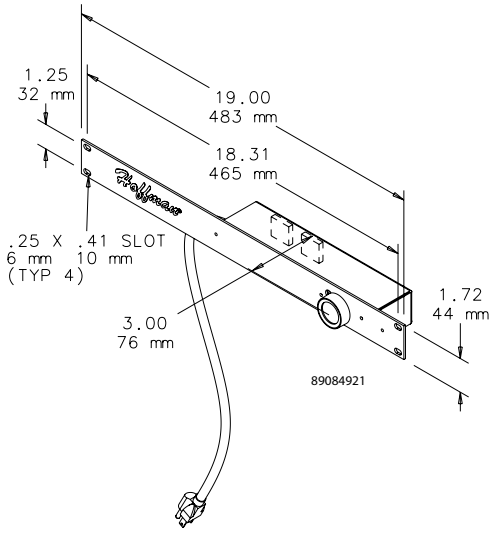
UL 508 Listed; File No. E249700
cUL Listed per CSA C22.2 No. 14; File No. E249700

FINISH

- A19FANSC: RAL 9005 black polyester powder paint

Performance Data **Rack-Mount Fan Speed Controls**

CATALOG NUMBERS	A19FANSC
ELECTRICAL DATA	
Rated Voltage	**120 VAC**
Maximum Nominal Current (Amps)	4
Temperature Settings (°F)	86, 95, 104, 113
Temperature Settings (°C)	30, 35, 40, 45
DESIGN DATA	
Description	19-in. Rack-Mount Fan Speed Control
Application	Fan speed adjusted manually



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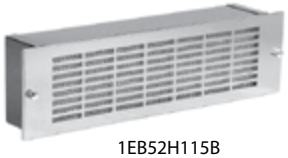
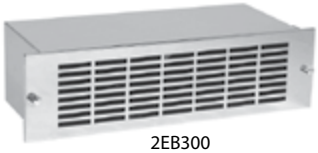
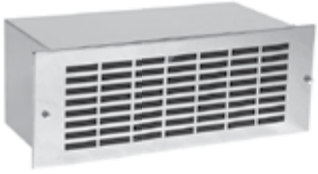
RACK-MOUNTABLE BLOWERS

1EB52H115A


1EB52H115B


2EB300

2EB3500


2EB412

2EB512

2EB612

4EB300

INDUSTRY STANDARDS

UL recognized

CSA Certified Motors
CE

APPLICATION

Fanpack packaged blowers are filtered inlet redundant fan packages. The compact size of the "B" models result in minimal intrusion into the enclosure.

Standard packaged blowers offer reliable rack cooling in a variety of case styles. Two exhaust styles are available with air flowing out the rear or out the top. Specify exhaust style (R or T) when ordering.

Multi-exhaust packaged blowers feature top and rear exhausts, for a wide, deep airflow pattern. Designed with two separate blowers inside, multi-exhaust blowers also offer redundancy and increased airflow.

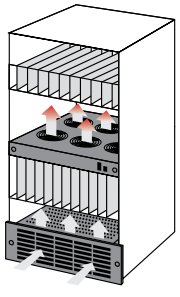
FEATURES

- Permanent, Washable Aluminum Filter
- 19-in. Rack Mountable
- Brushed Aluminum Grille
- Exhaust Guard
- Power Cord
- Permanently lubricated ball bearing motors
- 100% functionally tested

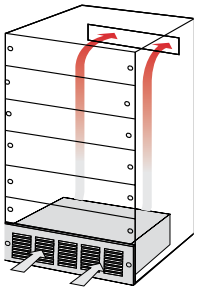
SPECIFICATIONS

- 115/230 VAC
- 50/60 Hz

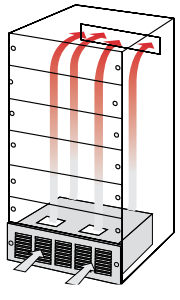
1EB Models



2EB Models



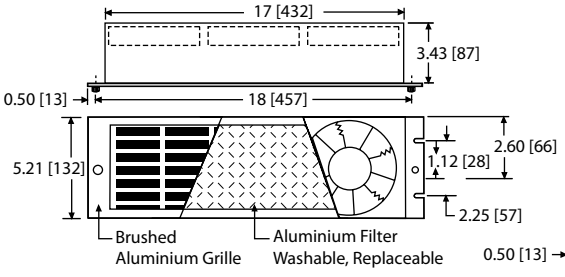
4EB Models



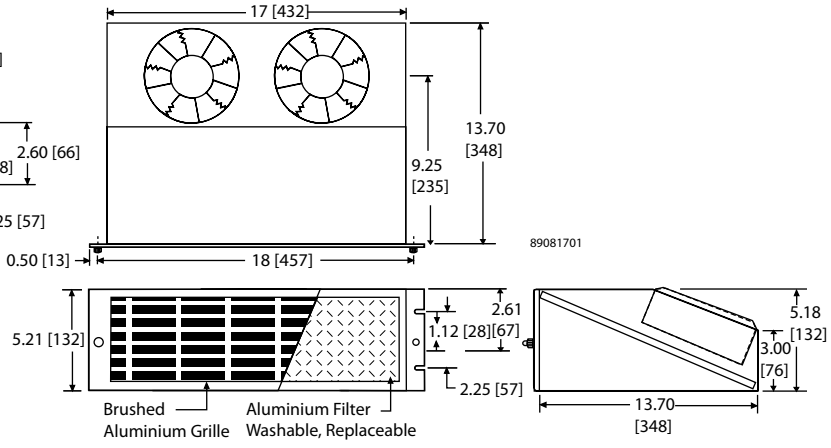
Performance Data **1EB Models**

ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperatur (°F/°C)	140/60	140/60
"A" Models		
Catalog Numbers	**1EB52H115A**	**1EB52H230A**
Free Airflow (CFM/M^3/hr.)	320/544	320/544
RPM	3300	3300
Nominal Run Current Maximum (Amps)	.52	.26
Nominal Start Current Maximum (Amps)	1.00	.50
Power Consumption (Watts)	62	62
Weight (lb./kg)	14/6.3	14/6.3
"B" Models		
Catalog Numbers	1EB52H115B	1EB52H230B
Free Airflow (CFM/M^3/hr.)	235/400	235/400
RPM	3100	3100
Nominal Run Current Maximum (Amps)	.55	.31
Nominal Start Current Maximum (Amps)	.80	.40
Power Consumption (Watts)	44	44
Weight (lb./kg)	8/3.6	8/3.6

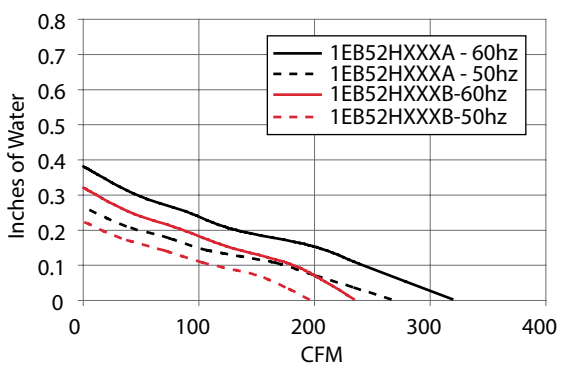
1EB52HxxxB Models

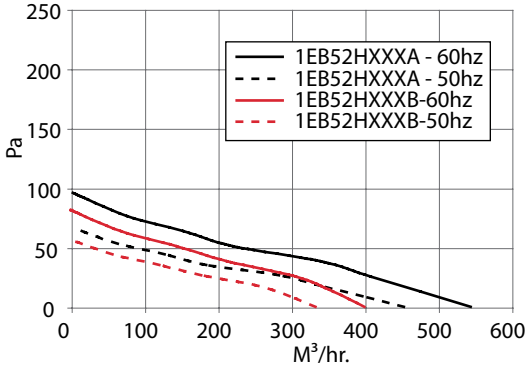


1EB52HxxxA Models



1EB Models





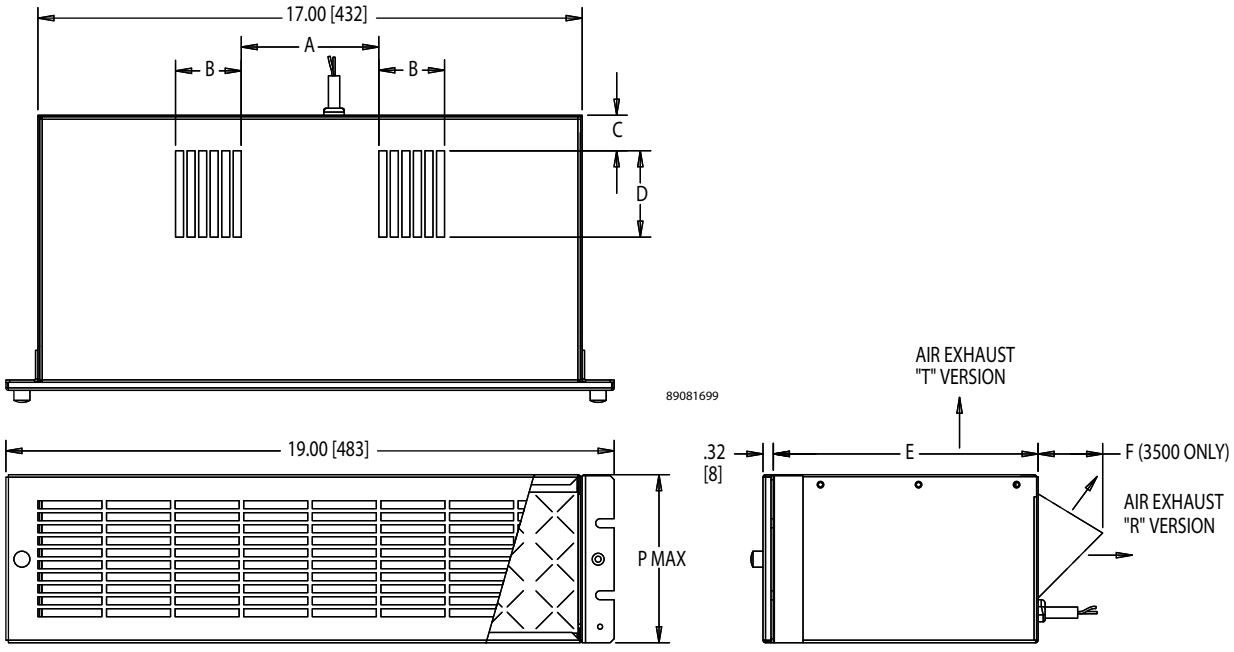
Performance Data **2EB Models**

ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperatur (°F/°C)	104/40	104/40
2EB300R Models		
Catalog Numbers	**2EB300R115**	**2EB300R230**
Free Airflow (CFM/M^3/hr.)	125/212	125/212
RPM	3000	3000
Nominal Run Current Maximum (Amps)	.9	.5
Power Consumption (Watts)	70	70
Weight (lb./kg)	16/17.3	16/17.3
2EB3500R Models		
Catalog Numbers	**2EB3500R115**	**2EB3500R230**
Free Airflow (CFM/M^3/hr.)	290/493	290/493
RPM	3050	3050
Nominal Run Current Maximum (Amps)	1.8	.9
Power Consumption (Watts)	125	125
Weight (lb./kg)	17/7.7	17/7.7
2EB412R Models		
Catalog Numbers	**2EB412R115**	**2EB412R230**
Free Airflow (CFM/M^3/hr.)	375/637	375/637
RPM	3100	3100
Nominal Run Current Maximum (Amps)	1.8	.8
Power Consumption (Watts)	200	200
Weight (lb./kg)	22/10	22/10
2EB512R Models		
Catalog Numbers	**2EB512R115**	
Free Airflow (CFM/M^3/hr.)	425/722	
RPM	1700	
Nominal Run Current Maximum (Amps)	1.3	
Power Consumption (Watts)	140	
Weight (lb./kg)	25/11.3	
2EB512T Models		
Catalog Numbers	**2EB512T115**	
Free Airflow (CFM/M^3/hr.)	425/722	
RPM	1700	
Nominal Run Current Maximum (Amps)	1.3	
Power Consumption (Watts)	140	
Weight (lb./kg)	25/11.3	
2EB612R Models		
Catalog Numbers	**2EB612R115**	**2EB612R230**
Free Airflow (CFM/M^3/hr.)	800/1359	800/1359
RPM	1650	1650
Nominal Run Current Maximum (Amps)	2.2	1.0
Power Consumption (Watts)	220	220
Weight (lb./kg)	41/18.6	41/18.6

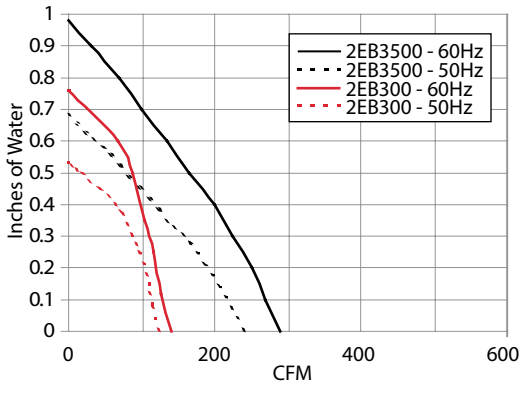
Design Data **2EB Models**

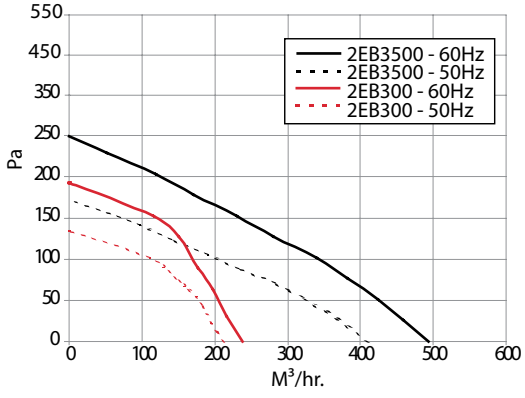
CATALOG NUMBERS	PMax in./mm	A in./mm	B in./mm	C in./mm	D in./mm	E in./mm	F in./mm
2EB300R115	5.25/133	4.30/109	2.05/52	—	—	8.22/209	—
2EB3500R115	5.25/133	4.38/111	4.56/116	—	—	7.17/182	1.75/44
2EB412R115	7.00/178	4.23/107	3.15/80	—	—	8.22/209	—
2EB512R115	8.75/222	4.13/105	3.63/92	—	—	8.22/209	—
2EB512T115	8.75/222	4.13/105	3.63/92	.80/20	3.40/86	9.61/244	—
2EB612R115	10.50/267	4.38/111	3.99/101	—	—	10.22/620	—

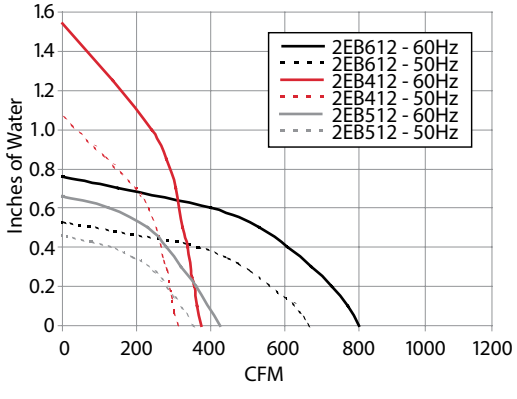
2EB Models

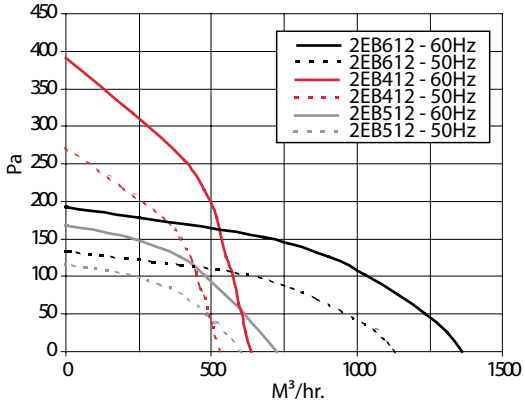


2EB Models









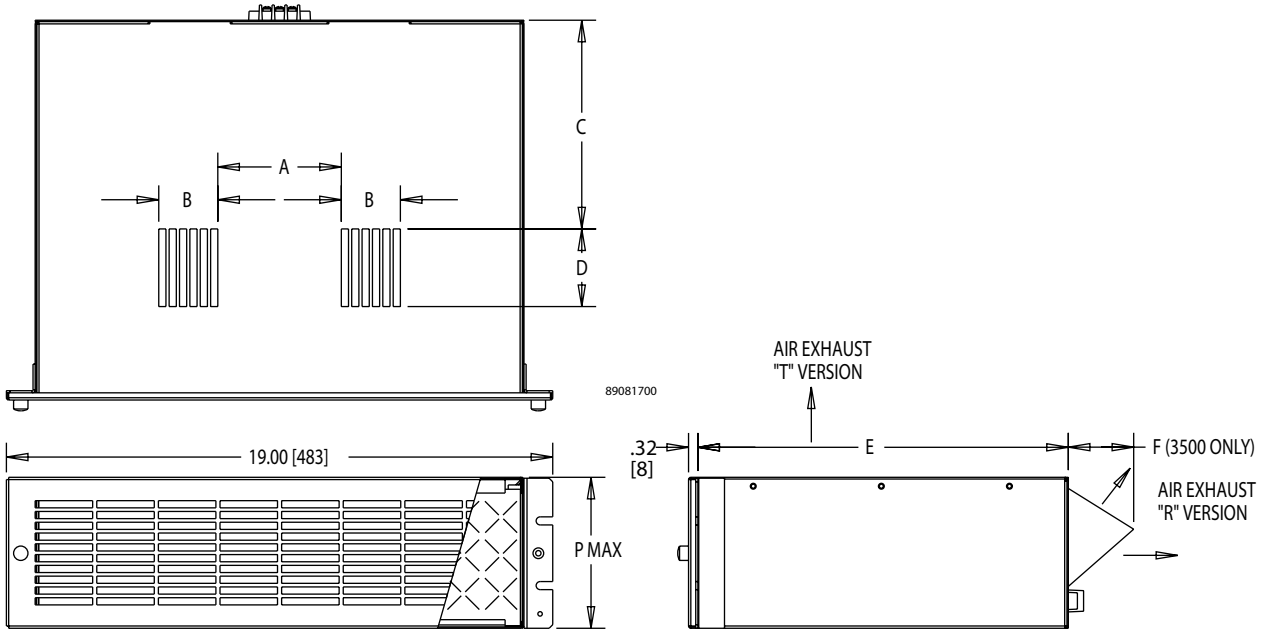
Performance Data **4EB Models**

ELECTRICAL DATA	
Rated Voltage	**115**
Frequency (Hz)	50/60
Maximum Operating Temperatur (°F/°C)	104/40
4EB300RT Models	
Catalog Number	**4EB300RT115**
Free Airflow (CFM/M^3/hr.)	180/306
RPM	2900
Nominal Run Current Maximum (Amps)	2.0
Power Consumption (Watts)	130
Weight (lb./kg)	21/9.5

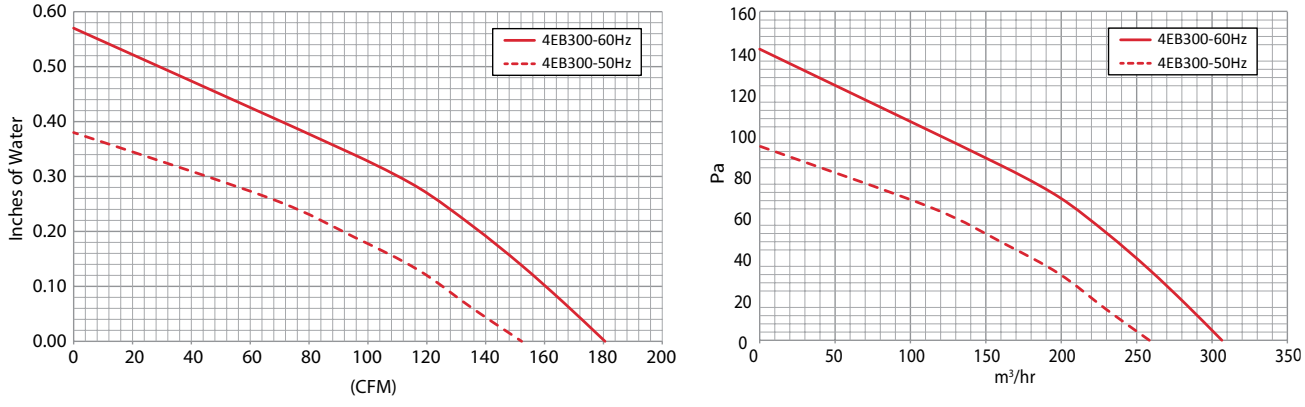
Design Data **4EB Models**

CATALOG NUMBERS	PMax in./mm	A in./mm	B in./mm	C in./mm	D in./mm	E in./mm	F in./mm
4EB300RT115	5.25/133	4.30/109	2.05/52	7.25/184	2.70/69	12.88/327	—

4EB Models



4EB Models



Notes

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RACK-MOUNTABLE FAN PACKAGE

INDUSTRY STANDARDS

UL Component Recognized; File No. E61997

EIA RS-310-D
CSA certified
(blower motor only)

APPLICATION

For enclosure or 19-in. rack applications, the Blower Fan Package provides the maximum amount of cooling air in the least amount of space by utilizing 115 volt AC, 60/50 hertz, single-phase input power.
Engineered for 20,000 hours of continuous operation when properly powered.

FEATURES

- Intake grille is easily removed with two captive thumbnuts
- Washable aluminum filter
- Single phase motor powers the statically balanced blower
- Motor is thermally protected and cooled by incoming forced air
- Direct drive induction motor contains permanently lubricated ball bearings
- Lubricant protects from -20 F to 298 F (-29 C to 148 C)
- Rotating components are suspended on neoprene shock-mounts
- Three-conductor power cord (five feet long)
- The unit is self-supporting with 16 gauge steel flanges notched per EIA RS-310-D.
- An exhaust grille and filter package (catalog number AEXGR275) is required and must be ordered separately

SPECIFICATIONS

- 16 gauge steel housing

FINISH

- Blower housing is black enamel.
- Grille is brushed stainless steel.

ACCESSORIES

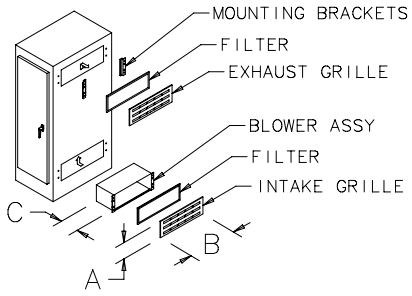
Exhaust Grilles and Replacement Filters, page 1217
Rack-Mount Fan Speed Control, page 1209
Filter Adhesive, page 1227

Performance Data **Rack-Mountable Fan Package**

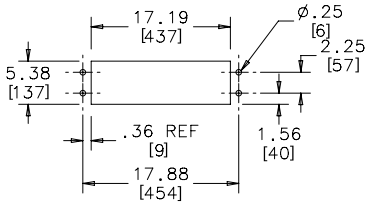
CATALOG NUMBERS	
	ADB275
ELECTRICAL DATA	
Rated Voltage	**115**
Frequency	50/60
Free Airflow (CFM)	230/275
RPM	2580/3100
Nominal Current Maximum (Amps)	1.2
Power Consumption (Watts)	84
SOUND LEVEL	
Sound Pressure (dBA)	56
UNIT CONSTRUCTION	
Weight (lb./kg)	15/7
EXHAUST GRILLE CATALOG NUMBERS	
Catalog Number	AEXGR275

Rack-Mountable Fan Package

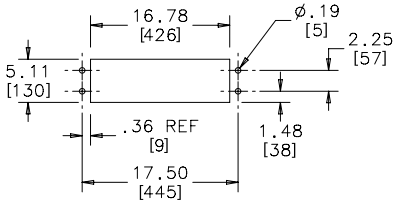
Mounting Cutout Dimensions



Blower Cutout



Exhaust Grille Cutout



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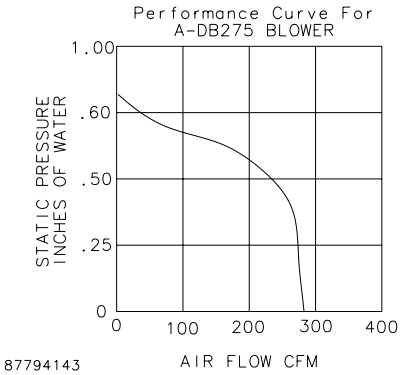

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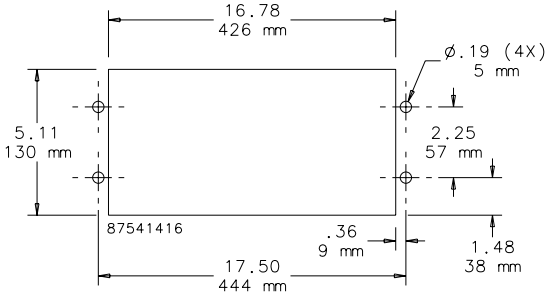
EXHAUST GRILLES AND REPLACEMENT FILTERS



CUTOUT DIMENSIONS

CATALOG NUMBERS	
	AEXGR275
UNIT CONSTRUCTION	
Dimensions H x W (in./mm)	5.75/146 x 19.00/483
Filter Size (in./mm)	4.98/126 x 16.56/421
ACCESSORIES	
Replacement Filters:	
Catalog Number	**AFLTR275AL**
Description	Aluminum Filter Replacement (5 per package)

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FILTER BOX FANS

INDUSTRY STANDARDS

UL Recognized Motor

CSA Certified Motor

APPLICATION

Thermal filter boxes are high volume air movers that require minimal enclosure space. Repositionable mounting ears allow the fans to be mounted internally or externally, and used for either intake or exhaust.

FEATURES

- Inlet Guard
- Outlet Guard
- Power Cord
- 5-15 plug available on catalog numbers ending with "M" only
- Permanently lubricated ball bearing motors
- 100% functionally tested

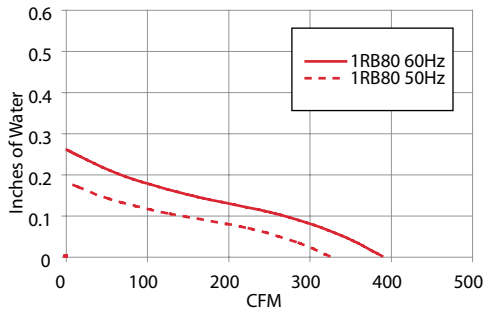
SPECIFICATIONS

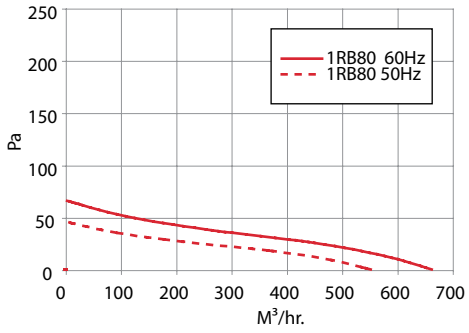
- 115 VAC
- 50/60Hz

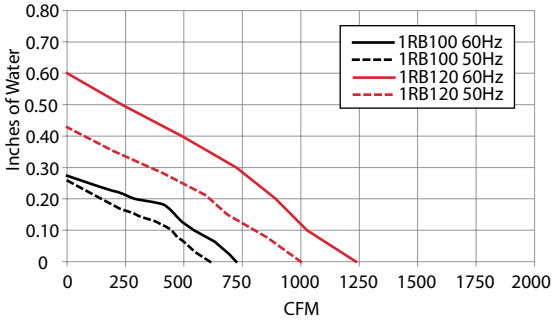
Performance Data **Filter Box Fans**

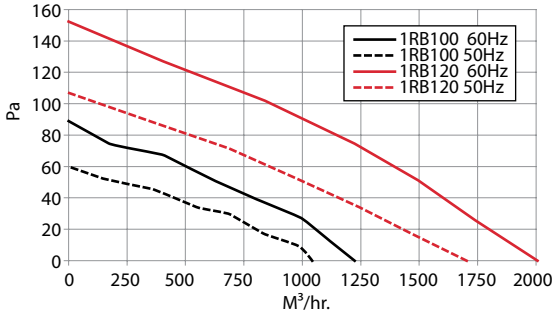
ELECTRICAL DATA		
Rated Voltage	**115**	**115**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
1RB80 Models		
Catalog Numbers	**1RB80**	**1RB80M**
Free Airflow (CFM/M^3/hr.)	390/699	390/699
RPM	1600	1600
Nominal Run Current Maximum (Amps)	1.1	1.1
Nominal Start Current Maximum (Amps)	1.5	1.5
Power Consumption (Watts)	80	80
Filter	N/A	Aluminum
Weight (lb./kg)	10/4.5	10/4.5
1RB100 Models		
Catalog Numbers	**1RB100**	**1RB100M**
Free Airflow (CFM/M^3/hr.)	675/1147	675/1147
RPM	1600	1600
Nominal Run Current Maximum (Amps)	1.2	1.2
Nominal Start Current Maximum (Amps)	1.5	1.5
Power Consumption (Watts)	90	90
Filter	N/A	Aluminum
Weight (lb./kg)	12/5.4	12/5.4
1RB120 Models		
Catalog Numbers	**1RB120**	**1RB120M**
Free Airflow (CFM/M^3/hr.)	1200/2151	1200/2151
RPM	1500	1500
Nominal Run Current Maximum (Amps)	1.5	1.5
Nominal Start Current Maximum (Amps)	2.5	2.5
Power Consumption (Watts)	160	160
Filter	N/A	Aluminum
Weight (lb./kg)	24/10.8	24/10.8

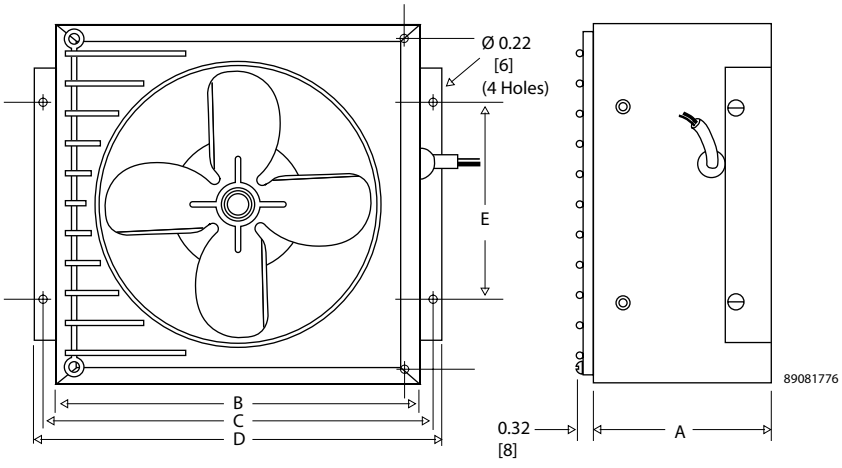
Performance Curves Filter Box











Design Data **Filter Box**

CATALOG NUMBERS	A in./mm	B in./mm	C in./mm	D in./mm	E in./mm
1RB80	4.50/114	8.88/226	9.56/243	10.13/257	4.88/124
1RB80M	4.50/114	8.88/226	9.56/243	10.13/257	4.88/124
1RB100	4.50/114	12.13/308	12.81/325	13.38/340	6.13/156
1RB100M	4.50/114	12.13/308	12.81/325	13.38/340	6.13/156
1RB120	7.38/187	15.13/384	15.81/402	16.38/416	9.00/229
1RB120M	7.38/187	15.13/384	15.81/402	16.38/416	9.00/229

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CENTRIFUGAL BLOWERS

INDUSTRY STANDARDS

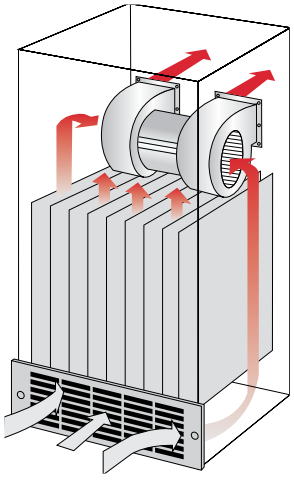
UL Recognized

CSA Certified Motors

APPLICATION

Single Centrifugal Blowers are compact for the maximum in spot cooling applications. Single centrifugal blowers can be mounted in any position for effective air movement.

Dual Centrifugal Blowers are designed for applications where space limitations are a problem. Mountable in any position, these blowers provide dual blasts from separate housings mounted on a reliable motor.



FEATURES

- 100% Functionally Tested

SPECIFICATIONS

- 115/230 VAC
- 50/60 Hz

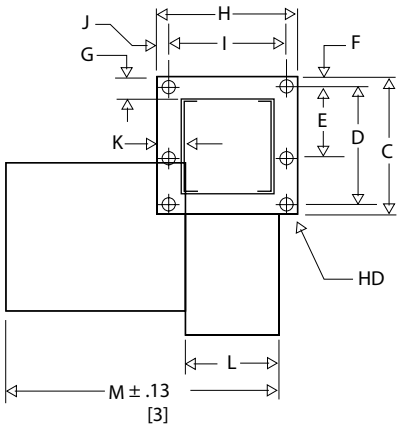
Performance Data **1NB Models**

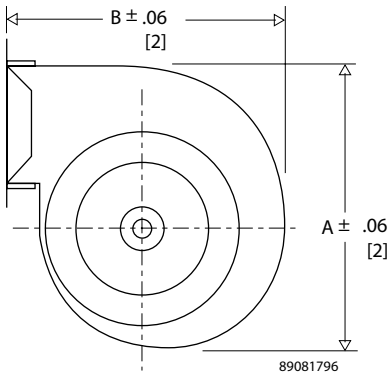
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
1NB412 Models		
Catalog Numbers	**1NB412115**	**1NB412230**
Free Airflow (CFM/M^3/hr.)	200/340	200/340
RPM	3100	3100
Nominal Run Current Maximum (Amps)	1.2	0.6
Nominal Start Current Maximum (Amps)	2.1	1.5
Power Consumption (Watts)	120	120
Weight (lb./kg)	6/2.7	6/2.7

Design Data **1NB Models**

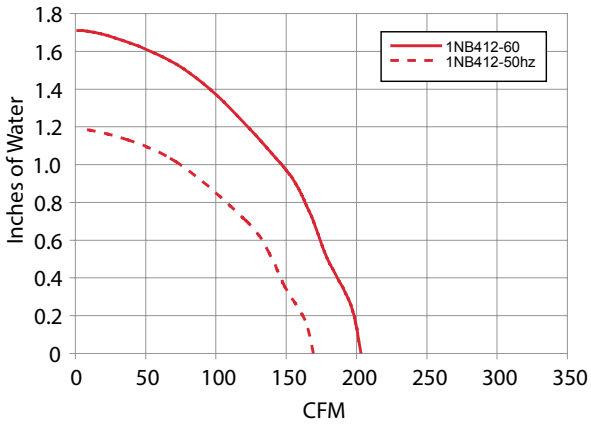
CATALOG NUMBERS	A in./mm	B in./mm	C in./mm	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	M in./mm	HD in./mm
1NB412115	6.81/173	6.14/156	3.84/96	3.29/84	0.31/8	0.62/16	4.66/118	4.03/102	0.31/8	0.72/18	3.22/82	7.47/190	0.28/7
1NB412230	6.81/173	6.14/156	3.84/96	3.29/84	0.31/8	0.62/16	4.66/118	4.03/102	0.31/8	0.72/18	3.22/82	7.47/190	0.28/7

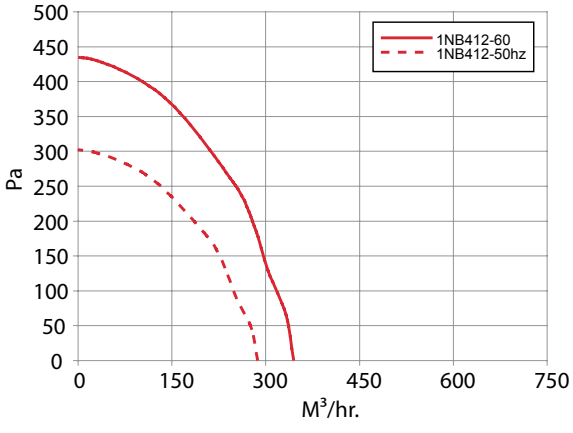
1NB Models





Performance Curves 1NB Models





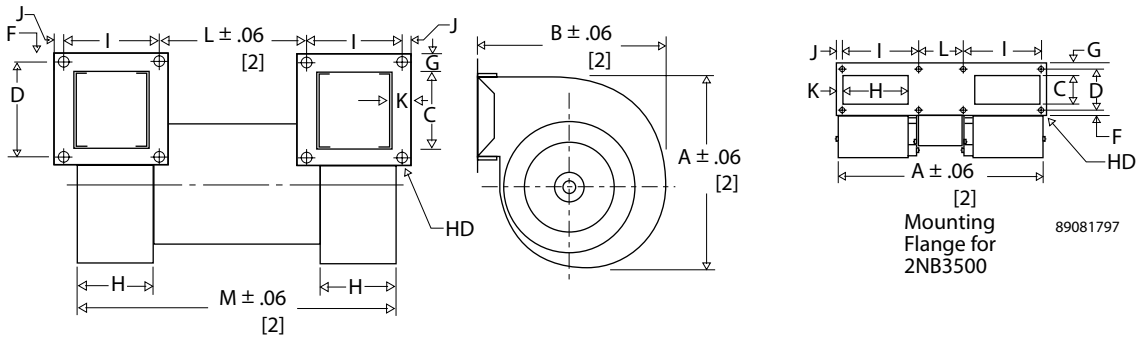
Performance Data **2NB Models**

ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
2NB300 Models		
Catalog Numbers	**2NB300115**	**2NB300230**
Free Airflow (CFM/M^3/hr.)	130/221	130/221
RPM	2900	2900
Nominal Run Current Maximum (Amps)	0.9	0.5
Nominal Start Current Maximum (Amps)	1.2	0.6
Power Consumption (Watts)	70	70
Weight (lb./kg)	6/2.7	6/2.7
2NB3500 Models		
Catalog Numbers	**2NB3500115**	**2NB3500230**
Free Airflow (CFM/M^3/hr.)	300/510	300/510
RPM	3050	3050
Nominal Run Current Maximum (Amps)	1.8	0.9
Nominal Start Current Maximum (Amps)	2.5	1.3
Power Consumption (Watts)	125	125
Weight (lb./kg)	8/3.6	8/3.6
2NB412 Models		
Catalog Numbers	**2NB412115**	**2NB412230**
Free Airflow (CFM/M^3/hr.)	360/612	360/612
RPM	3000	3000
Nominal Run Current Maximum (Amps)	1.6	0.8
Nominal Start Current Maximum (Amps)	4	2
Power Consumption (Watts)	225	225
Weight (lb./kg)	9/4.1	9/4.1
2NB424 Models		
Catalog Numbers	**2NB424115**	**2NB424230**
Free Airflow (CFM/M^3/hr.)	595/1011	595/1011
RPM	3100	3100
Nominal Run Current Maximum (Amps)	4	2
Nominal Start Current Maximum (Amps)	6.8	3.5
Power Consumption (Watts)	400	400
Weight (lb./kg)	12/5.4	12/5.4
2NB512 Models		
Catalog Numbers	**2NB512115**	**2NB512230**
Free Airflow (CFM/M^3/hr.)	500/850	500/850
RPM	1700	1700
Nominal Run Current Maximum (Amps)	1.5	0.8
Nominal Start Current Maximum (Amps)	3.5	1.7
Power Consumption (Watts)	130	130
Weight (lb./kg)	14/6.3	14/6.3

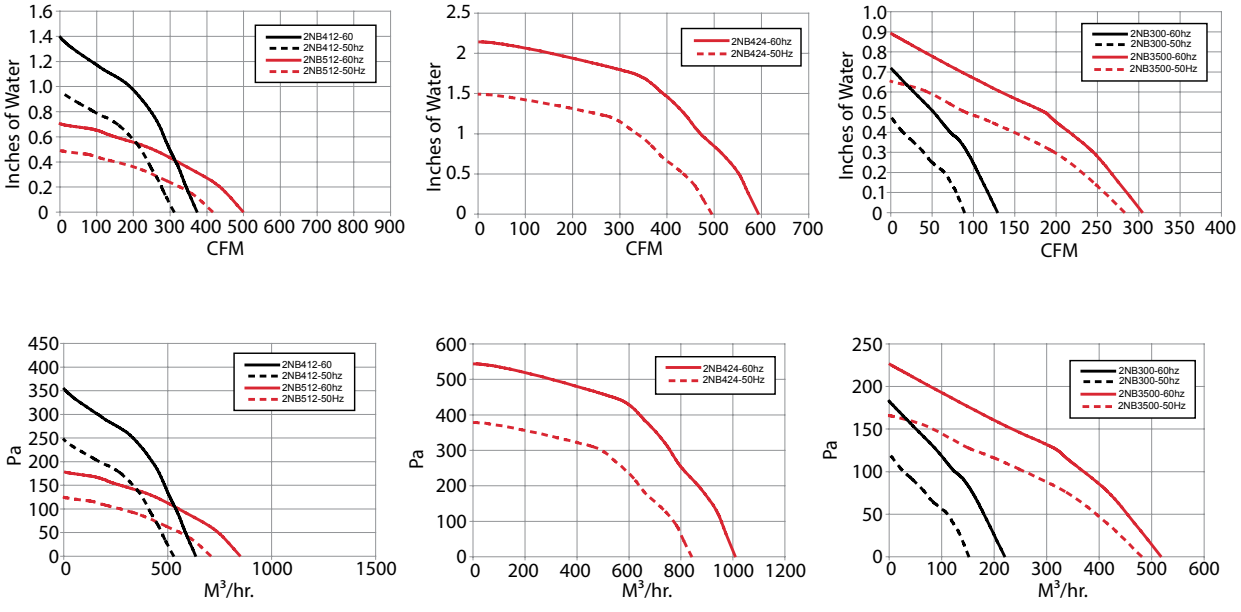
Design Data **2NB Models**

CATALOG NUMBERS	A in/mm	B in/mm	C in/mm	D in/mm	F in/mm	G in/mm	H in/mm	I in/mm	J in/mm	K in/mm	L in/mm	M in/mm	HD in/mm
2NB300XXX	5.19/132	5.25/133	2.19/56	2.50/64	.28/7	.43/11	2.13/54	2.63/67	.22/6	.42/11	3.87/98	8.69/221	.25/6
2NB3500XXX	5.57/141	5.07/129	2.00/51	2.75/70	.38/10	.78/20	4.37/111	5.25/133	.38/10	.50/13	3.00/76	13.80/350	.22/6
2NB412XXX	6.73/171	6.37/162	2.59/66	2.53/64	.38/10	- / -	3.22/82	4.03/102	.27/7	.68/17	3.31/84	10.62/270	.28/7
2NB424XXX	8.06/205	7.00/178	3.13/80	3.25/83	.63/16	.13/3	3.50/89	4.13/105	.69/18	1.12/28	3.63/92	11.25/286	.25/6
2NB512XXX	8.06/205	7.75/197	3.44/87	4.06/103	.31/8	.63/16	3.66/93	4.25/108	.31/8	.63/16	3.63/92	11.56/294	.28/7

2NB Models



Performance Curves 2NB Models



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FILTER GRILLE PANEL

APPLICATION

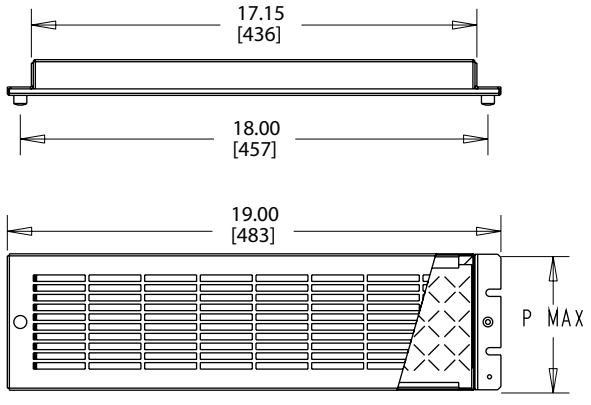
Filter Grille Panels add valuable ventilation to a rack for either inlet or exhaust air. Used alone, filter grille panels allow adequate air flow on natural convection applications or in conjunction with an air moving device to provide filtered air intake.

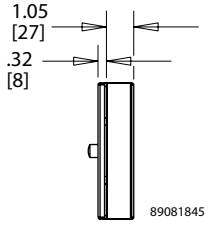
FEATURES

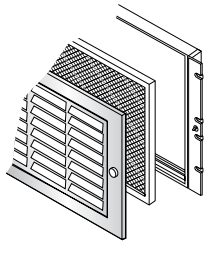
- Permanent, Washable Aluminum Filter
- 19-inch Rack Mountable
- Brushed Aluminum or Stainless Steel Grilles

Performance Data **Filter Grille Panel**

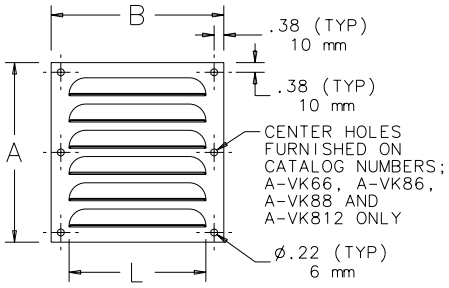
CATALOG NUMBERS					
Stainless Steel	35G19	—	7G19	875G19	105G19
Aluminum	35H19	525H19	7H19	875H19	105H19
UNIT CONSTRUCTION					
Height PMax (in./mm)	3.5/89	5.25/133	7.00/178	8.75/222	10.50/267
Width (in./mm)	19/483	19/483	19/483	19/483	19/483
Weight (lb./kg)	2/1.0	3/1.4	5/2.2	5/2.2	5/2.2



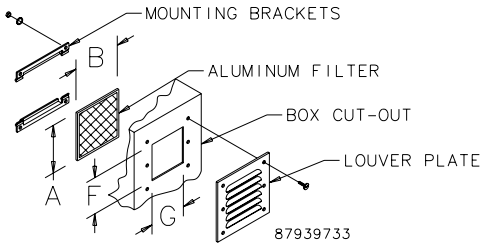




LOUVER PLATE KITS



Designed to provide ventilation in enclosures where excessive internal heat or excessive moisture is a problem. Although louvers cannot keep all moisture out of an enclosure, gasketing or sealing the perimeter of the louver plate reduces problems associated with moisture intrusion. These kits may be easily installed in the field by making a cutout of the proper size and attaching the louver plate in place. Louver plates are made from 14 gauge steel with an ANSI 61 gray polyester powder finish over pretreated surfaces or 316 stainless steel. Hardware is furnished for mounting. Custom sizes, materials, finishes, etc., can be provided on special order.

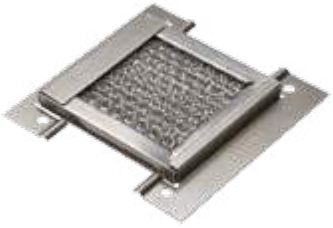


Design Data **Louver Plate Kits**

CATALOG NUMBERS	Dimensions A x B in./mm	Number of Louvers	Thickness in./mm	Length L in./mm	Opening Area $in.^2/cm^2$	Cutout Size, F in./mm	Cutout Size, G in./mm
AVK23	3.25 x 3.25/83 x 83	3	0.19/5	2.00/51	.86/5.54	2.00/51	1.75/44
AVK23SS6	3.25 x 3.25/83 x 83	3	0.19/5	2.00/51	.86/5.54	2.00/51	1.75/44
AVK33	3.88 x 4.50/98 x 114	3	0.25/6	3.00/76	1.32/8.52	2.62/67	3.00/76
AVK33SS6	3.88 x 4.50/98 x 114	3	0.25/6	3.00/76	1.32/8.52	2.62/67	3.00/76
AVK34	4.75 x 4.50/121 x 114	4	0.25/6	3.00/76	1.76/11.35	3.50/89	3.00/76
AVK34SS6	4.75 x 4.50/121 x 114	4	0.25/6	3.00/76	1.76/11.35	3.50/89	3.00/76
AVK43	4.50 x 5.50/114 x 140	3	0.25/6	4.00/102	1.88/12.10	3.25/83	4.00/102
AVK43SS6	4.50 x 5.50/114 x 140	3	0.25/6	4.00/102	1.88/12.10	3.25/83	4.00/102
AVK44	5.62 x 5.50/143 x 140	4	0.25/6	4.00/102	2.50/16.13	4.38/111	4.00/102
AVK44SS6	5.62 x 5.50/143 x 140	4	0.25/6	4.00/102	2.50/16.13	4.38/111	4.00/102
AVK64	5.62 x 7.50/143 x 191	4	0.31/8	6.00/152	5.21/33.61	4.38/111	6.00/152
AVK64SS6	5.62 x 7.50/143 x 191	4	0.31/8	6.00/152	5.21/33.61	4.38/111	6.00/152
AVK66	7.88 x 7.50/200 x 191	6	0.31/8	6.00/152	7.82/50.45	6.62/168	6.00/152
AVK66SS6	7.88 x 7.50/200 x 191	6	0.31/8	6.00/152	7.82/50.45	6.62/168	6.00/152
AVK84	5.81 x 9.50/148 x 241	4	0.31/8	8.00/203	8.08/52.12	4.56/116	8.00/203
AVK84SS6	5.81 x 9.50/148 x 241	4	0.31/8	8.00/203	8.08/52.12	4.56/116	8.00/203
AVK86	8.19 x 9.50/208 x 241	6	0.31/8	8.00/203	12.11/78.13	6.94/176	8.00/203
AVK86SS6	8.19 x 9.50/208 x 241	6	0.31/8	8.00/203	12.11/78.13	6.94/176	8.00/203
AVK88	10.56 x 9.50/268 x 241	8	0.31/8	8.00/203	16.15/104.19	9.31/236	8.00/203
AVK88SS6	10.56 x 9.50/268 x 241	8	0.31/8	8.00/203	16.15/104.19	9.31/236	8.00/203
AVK812	15.31 x 9.50/389 x 241	12	0.31/8	8.00/203	24.22/156.26	14.06/357	8.00/203
AVK812SS6	15.31 x 9.50/389 x 241	12	0.31/8	8.00/203	24.22/156.26	14.06/357	8.00/203

Catalog numbers ending in SS6 indicates 316L stainless steel

LOUVER PLATE KIT FILTERS



Design
Designed for use with Louver Plate Kit. Mounting holes on filter bracket align with louver mounting holes. Hardware supplied with louvers also secures filter brackets in place. Aluminum air filters provide good arrestment of airborne dust and dirt.

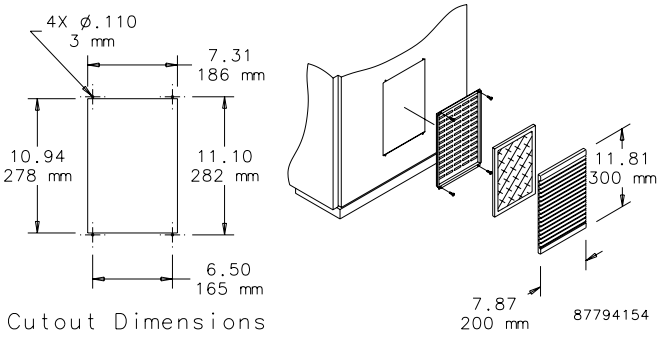
Filter Media
Filter media is composed of layers of slit and expanded aluminum providing hundreds of adhesive coated baffle surfaces for trapping impurities. Impurities are held throughout the depth of the filter. Washing with warm water will keep the filter clean. To achieve best results, Filter Adhesive is recommended.

CATALOG NUMBERS	Dimensions H x W (in./mm)	Use with Steel Louver	Use with Stainless Steel Louver
AFLT33	3.22x 3.25/82 x 83	AVK33	AVK33SS6
AFLT34	4.09 x 3.25/104 x 83	AVK34	AVK34SS6
AFLT43	3.84 x 4.25/98 x 108	AVK43	AVK43SS6
AFLT44	4.97 x 4.25/126 x 108	AVK44	AVK44SS6
AFLT64	4.45 x 6.25/113 x 159	AVK64	AVK64SS6
AFLT66	6.72 x 6.25/171 x 159	AVK66	AVK66SS6
AFLT84	4.64 x 8.25/118 x 210	AVK84	AVK84SS6
AFLT86	7.02 x 8.25/178 x 210	AVK86	AVK86SS6
AFLT88	9.39 x 8.25/239 x 210	AVK88	AVK88SS6
AFLT812	14.14 x 8.25/359 x 210	AVK812	AVK812SS6

VENT KIT

Includes a stylized louvered cover and filter package. Use as an air inlet when a cooling fan is mounted in an enclosure or use two vent kits to allow passive airflow. Mounting hardware included. Vent Kit requires cutout shown in diagram. Available in gray (RAL 7042) or black.

CATALOG NUMBERS	XPV32	PPV32B
UNIT CONSTRUCTON		
Dimension H x W x D (in./mm)	11.81 x 7.88 x 1.03 300 x 200 x 26	11.81 x 7.88 x 1.03 300 x 200 x 26
Color	Gray	Black

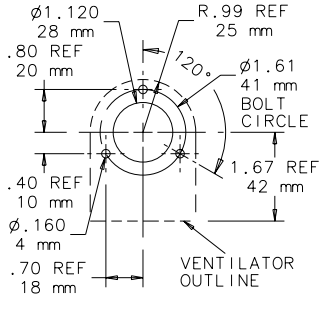


Cutout Dimensions

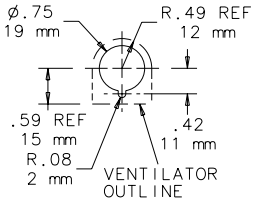
VENTILATOR

Designed to fit most metallic and non-metallic enclosures. Proper installation will provide rainproof ventilation but will not meet Type 4 or 12 requirements. Kit includes mounting hardware, and instructions.
Supplied screws are 13-mm (.515-inch) long. Some applications may require longer screws.

CATALOG NUMBERS	ANMV6	ANMV3
DESIGN DATA		
Description	Large nonmetallic vent	Small nonmetallic vent



Large Ventilator



Small Ventilator

87541390

FILTER ADHESIVE

Designed to maximize the efficiency of all expanded aluminum air filters. Use of Filter Adhesive doubles the dust-retention capacity of the filter. Adhesive contains a low-viscosity water-soluble oil which absorbs dirt particles trapped on the surface of the filter. Through the circulation of the oil, a renewed impurity-absorbing surface is constantly established. Washing with water will remove dust, dirt and other impurities. Once the filter is dry, recoat with adhesive.

CATALOG NUMBERS	
	AFLTAD
DESIGN DATA	
Description	Spray Adhesive

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H2OMIT VENT DRAINS

INDUSTRY STANDARDS

Maintains UL/cUL Type 4, 4X rating when properly installed on a UL/cUL Type 4 or 4X enclosure.

UL 508A Listed; Type 4, 4X; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X; File No. E61997

NEMA/EEMAC Type 4, 4X
IEC 60529, IP66

APPLICATION

H2OMIT Vent Drains allow accumulated water to drain out the bottom of an enclosure. The UL-approved vent drains also function as an air pressure equalizer, reducing the harmful effects of temperature-induced vacuums that could pull water and moisture into the enclosure.

FEATURES

- Uses gravity to remove collected liquids
- One-way mechanical shut-off when pressure is equalized prevents water and contaminants from entering the enclosure
- Helps reduce corrosion that can limit the life of internal electrical and electronic components
- Installs in a 7/8-in. hole in the bottom of enclosure with provided nut or in a 1/2-in. NPT/NPS threaded conduit hub
- Installs in the bottom of mild steel, aluminum, stainless steel or non-metallic enclosures
- Maintains enclosure's UL Type rating when properly installed

SPECIFICATIONS

Stainless Steel Vent Drain

- Corrosion-resistant polyester material with a Type 304 stainless steel sleeve
- 2.00-in. long x 1.38-in outside diameter

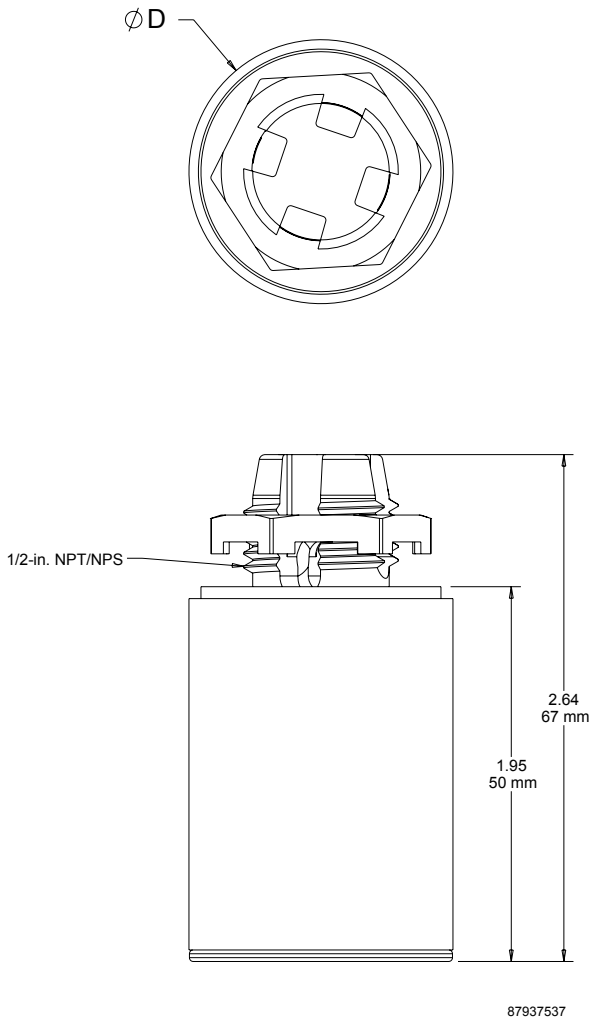
Non-Metallic Drain Vent

- Corrosion-resistant polyester material
- 2.00-in. long x 1.25-in. outside diameter

Performance Data **H2OMIT Vent Drains**

CATALOG NUMBERS	AVDR4NM	AVDR4SS4
UNIT CONSTRUCTION		
Description	Non-metallic Vent Drain	Stainless Steel Vent Drain
D (in./mm)	1.25/32	1.38/35
Quantity	1	1

H2OMIT Vent Drains



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H2OMIT THERMOELECTRIC DEHUMIDIFIER

INDUSTRY STANDARDS

UL 508A Listed; File No. E61997
cUL Listed per C22.2 No. 14; File No. E61997

CE

APPLICATION

The H2OMIT Thermoelectric Dehumidifier removes moisture from the air within an enclosure, providing an inexpensive yet highly effective way to protect electronic and electrical components from condensation.

FEATURES

- Reduces corrosion that can limit the life of internal electrical and electronic components
- Condenses moisture from internal enclosure air and standing liquids
- Built-in drain provision with plastic hose directs collected moisture to the Vent Drain (sold separately)
- Rotating side air vents direct recirculating air away from critical controls
- Mounts via DIN rail on internal panel or mounts directly onto the inside bottom of enclosure above the Vent Drain (sold separately)
- Can be used in mild steel, aluminum, stainless steel and non-metallic enclosures

SPECIFICATIONS

- High-impact ABS shell
- Operates on 24-Volt DC power
- 4.5 A max. (84 W)
- Runs continuously above 32 F[a] (power supply not included)
- Removes 8 oz. of moisture in 24 hours
- Compact 6.00-in. x 5.50-in. x 5.75-in. design
- One Thermoelectric Dehumidifier includes:
  - Four feet of plastic hose
  - Two hose retainers
  - One double-ended hose retainer
  - Six inches of Velcro®
  - Seven-inch strip of DIN rail
  - Two mounting screws

Must be used with UL-certified drain to remove pooled liquid from enclosure.
[a]If continual operation is not desired, a Mechanical Hygrostat (AMHUM) can be wired to the thermoelectric dehumidifier and then set to turn the dehumidifier on at the desired relative humidity.

VELCRO is a trademark of Velcro Industries B.V.

Performance Data **H2OMIT Thermoelectric Dehumidifier**

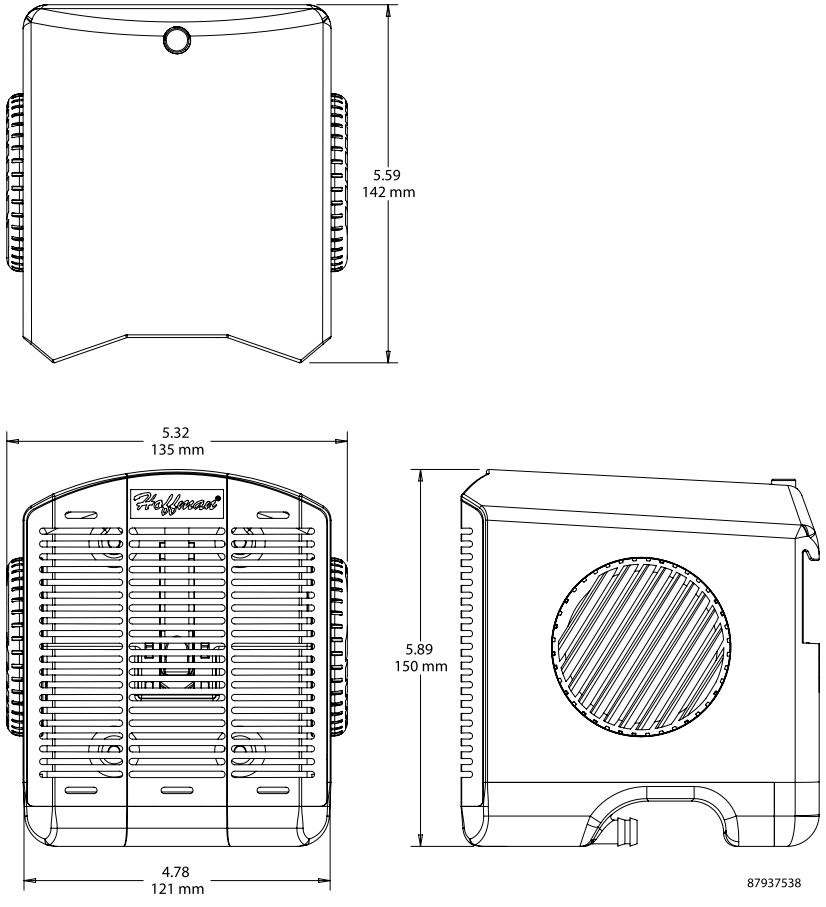
CATALOG NUMBERS

H2OMITTER

Dew Point Temperature : Percent Relative Humidity

Temp. (° F)	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%
110	110	108	106	104	**102**	100	98	95	93	90	87	84	80	76	72	65	60	51	41
105	105	103	101	99	**97**	95	93	91	88	85	83	80	76	72	67	62	55	47	37
100	100	99	97	95	**93**	91	89	86	84	81	78	75	71	67	63	58	52	44	32
95	95	96	92	90	**88**	86	87	81	79	76	73	70	67	63	59	54	48	40	32
90	90	88	87	85	**83**	81	79	79	74	71	68	65	62	59	54	49	43	36	32
85	**85**	**83**	**81**	**80**	**78**	76	74	71	69	67	64	61	58	54	50	45	38	32	—
80	80	78	77	75	73	71	69	67	65	62	59	56	53	50	45	40	35	32	—
75	75	73	72	70	68	66	64	62	60	58	55	52	49	45	41	36	32	—	—
70	70	68	67	65	63	61	59	58	55	53	50	47	44	40	37	32	—	—	
65	65	63	62	60	59	57	55	53	50	48	45	42	40	36	62	—	—	—	—
60	60	58	57	55	53	52	50	48	45	43	41	38	35	32	—	—	—	—	—
55	55	53	52	50	49	47	45	43	40	38	36	33	32	—	—	—	—	—	—
50	50	48	46	45	44	42	40	38	36	34	32	—	—	—	—	—	—	—	—
45	45	43	42	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—
40	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—
35	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Definition: Dew Point is the temperature at which condensation forms. If the temperature of the enclosure is 85 F and the relative humidity is 80 percent, Dew Point is reached at a temperature of 78 F or below.
This means that moisture vapor will condense on any surface that is below the Dew Point temperature of 78 F.



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STAINLESS STEEL PRESSURE COMPENSATION

INDUSTRY STANDARDS

CE
NEMA Type 4X
IEC/EN 60529, IP66

APPLICATION

Pressure differentials in a tightly sealed enclosure result from heat generated by electrical and electronic equipment within the enclosure and fluctuations of outside ambient temperature. Stainless steel pressure compensation devices provide IP66 protection in corrosive applications requiring slow pressure equalization. For optimal performance, install two plugs diagonally to each other.

FEATURES

- Air permeability = 42 cubic feet/hour (1,200 liters/hour) at a pressure difference of min. 70 mbar
- Easy installation: drill one 1.60-in. (41-mm) diameter hole
- Sealing gasket (Nitrile Buna-N Rubber)

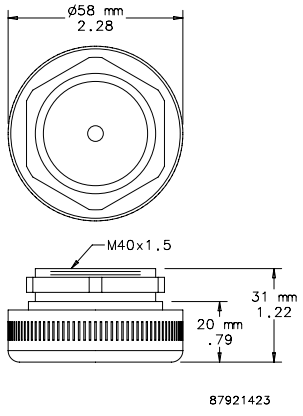
SPECIFICATIONS

- Type 316L stainless steel
- Semipermeable membrane inside the plug filters moisture and dust
- Mounting thread M40 with union nut

FINISH

- Machined Type 316L stainless steel

CATALOG NUMBERS	APCDSS6
UNIT CONSTRUCTION	
Operating/Storage Temperature (°F/°C)	-40/-40 to 176/80
Unit Dimenstions (in./mm)	2.28/58Ø x 1.22/31
Depth into Enclosure (in./mm)	.35/9



PRESSURE COMPENSATION

INDUSTRY STANDARDS

UL Type 1, 4, 4X; File No. E234324

CE
IEC/EN 60529, IP66

APPLICATION

Pressure differentials in a tightly sealed enclosure result from heat generated by electrical and electronic equipment within the enclosure and fluctuations of outside ambient temperature. Pressure compensation devices provide IP66 protection in applications requiring slow pressure equalization. For optimal performance, install two plugs diagonally to each other.

FEATURES

- Air permeability = 42 cubic feet/hour (1,200 liters/hour) at a pressure difference of min. 70 mbar
- Easy installation: drill one 1.60-in. (41-mm) diameter hole
- Sealing gasket (Nitrile Buna-N Rubber)

SPECIFICATIONS

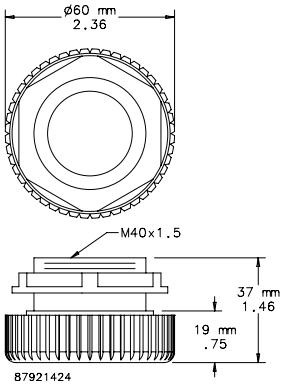
- Semipermeable membrane inside the plug to filter moisture and dust
- Mounting thread M40 with union nut
- Plastic PA66

FINISH

- Light-gray plastic. Polymeric material manufactured by DuPont.

DuPont is the trademark of E. I. duPont de Nemours and Company.

CATALOG NUMBERS	APCDABS
UNIT CONSTRUCTION	
Operating/Storage Temperature (°F/°C)	-49/-45 to 158/70
Unit Dimensions (in./mm)	2.36/60Ø x 146/37
Depth into Enclosure (in./mm)	.6/15



INDUSTRIAL CORROSION INHIBITORS

Hoffman corrosion inhibitors protect

- Interior components of electrical enclosures, boxes, consoles and wireways
- Interior components of electronic enclosures
- Electrical and electronic equipment and controls
- Parts and components that are packaged in crates during shipping and storage
- Switch gear and relay cabinets
- Interiors of pipes, conduits and fuse boxes
- Process control computers, instruments and recording devices
- Tool chest interiors and contents
- Equipment stored at construction sites

Chief Advantages

- Protects against salt and high humidity
- Eliminates the need of oiling, plating or dipping metal
- Puts protected equipment to use immediately without degreasing or coating removal

How They Work

Each inhibitor contains a special chemical combination that vaporizes and condenses on all surfaces in an enclosed area. Vapors will redeposit as needed in the event of condensation of moisture on surfaces. These vapors reach every part of an enclosure, protecting all interior components. Spraying, wiping or greasing are not required. This eliminates precoating, special wraps and drying agents. Protection is effective even in salt-water atmospheres. The AHCI5E and AHCI10E emitters have additional red-metal inhibitors for further protection. Enclosures containing corrosion inhibitors must be reasonably sealed.

Life Expectancy and Usage

The normal useful life-span of Hoffman corrosion inhibitors is in excess of one year. However, inhibitor life expectancy is shortened by approximately 25 percent when exposed to temperatures above 104 F (40 C). This product is not recommended for use where temperature exceeds 199 F. Since Hoffman corrosion inhibitors are vapor-phase protective, all surfaces to be protected should be accessible to the vapors. The maximum distance the vapors can travel is approximately 1.50 ft. (.46 m). Protection of long, narrow enclosures can be achieved with tape or multiple inhibitors.

Storage and Handling

Each Hoffman corrosion inhibitor is individually packaged in a resealable bag for maximum effectiveness at the time of usage. Corrosion inhibitors should be stored at temperatures not exceeding 120 F (45 C). Hoffman corrosion inhibitors are not returnable.

When determining the proper corrosion inhibitor for your application, assume the enclosure volume to be protected is greater than calculated if (1) cabinet doors are opened frequently, (2) cabinet is located in an extremely corrosive area and/or (3) cabinet length divided by depth is greater than four.

AHCI1DV

Foam device protects one cubic foot (28 liters) of enclosure volume for approximately one year.
Size: .25 x 1.25 x 3.00 in. (6 x 32 x 76 mm)

AHCI5E

Emitter protects 5 ft.^{3} (142 liters) of enclosure volume for approximately two years from the date of manufacture. Emitters contain additional red metal (non-ferrous) inhibitors.
Size: 2.31 in. (diameter) x 0.81 in. (high) (59 mm x 21 mm)

AHCI10E

Emitter protects 10 ft.^{3} (283 liters) of enclosure volume for approximately two years from the date of manufacture. Emitters contain additional red metal (non-ferrous) inhibitors.
Size: 2.31 in. (diameter) x 1.38 in. (high) (59 mm x 35 mm)

AHCI60R

Tape protects 60 ft.^{3} of enclosure volume per roll. Use approximately 2.50 in. (63 mm) of tape per cubic foot (28 liters) of enclosure volume to be protected. Each roll of tape is packaged individually in a resealable bag.
Size: .25 in. x .75 in. x 12.00 ft. (6 mm x 19 mm x 3.6 m)

AHCI240R

Tape protects 240 ft.^{3} of enclosure volume per roll. Use approximately 1.00 in. (25 mm) of tape per cubic foot (28 liters) of enclosure volume to be protected. Each roll of tape is packaged individually in a resealable bag.
Size: .25 in. x 2.00 in. x 20.00 ft. (6 mm x 51 mm x 6.1 m)

AHCI238S

Spray is a non-conductive, nonflammable, vapor-phase film and is non-toxic. It has essentially neutral pH value. Application provides instant protection against corrosion. Spray is water soluble and can be easily flushed away with water if desired. This product should be kept from freezing and has a shelf life of 2+ years in normal warehouse conditions.

Standard Product

CATALOG NUMBER	Enclosure Volume Protected (ft.^{3})	Enclosure Volume Protected (liters)	Package Qty.
AHCI1DV	1	28.32	50
AHCI5E	5	141.60	25
AHCI10E	10	283.20	12
AHCI60R	60 per roll	1699 per roll	3
AHCI240R	240 per roll	6797 per roll	1
AHCI238S	Corrosion Inhibitor Spray	Corrosion Inhibitor Spray	6

Metal Protection Chart

Metal	Protected by Chemical	Unprotected by Chemical
Aluminum	Marked reduction of surface attack; no pitting	Severe surface attack; tarnish; pitting
Brass[a]	Decreased tarnish; very minor surface attack	Surface discoloration; pitting
Steel, Iron	No change	Severe corrosion
Copper[a]	Slight staining	Heavy corrosive attack
Zinc Plate	Slight discoloration	Severe corrosion
Tin Plate	Slight discoloration	Moderate corrosive attack

[a] AHCI5E and AHCI10E emitters are recommended for these materials

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TOUCH-SAFE HEATERS

INDUSTRY STANDARDS

cURus Component Recognized; File No. E150057

IP 20
CE

APPLICATION

Protect electrical, mechanical equipment from low temperatures, condensation, and corrosion with this heater, which will maintain stable enclosure temperatures by using natural convection resulting in current circulation of warm air.

SPECIFICATIONS

- Heating element PTC resistor - temperature limiting
- Double Insulated Protection
- Mounting clip for 35mm DIN rail, EN 60 715
- Vertical mount

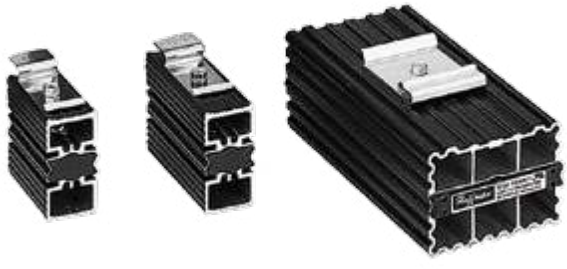
FINISH

- UL 94 V-0 Black Plastic Housing

Performance Data

CATALOG NUMBERS	DAH101TS	DAH201TS	DAH501TS
Electrical Data			
Rated Voltage (AC/DC)	**110/120**	**110/120**	**110/120**
Power Consumption (Watts)	10	20	50
Start Nominal Current (Amps)	2.5	4.5	8
Unit Construction			
H x W x D (in./mm)	3.9 X 1.5 X 3.0/98 x 38 x 75	3.9 X 1.5 X 3.0/98 x 38 x 75	4.3 X 2.4 X 3.5/110 x 60 x 90
Weight (oz)	5.0	6.1	10.4

SEMICONDUCTOR HEATERS



INDUSTRY STANDARDS

cURus Component Recognized; File No. E150057

IEC IP54
CE

APPLICATION

Protect electrical, pneumatic, hydraulic and mechanical equipment from low temperatures, condensation and corrosion with this heater, which maintains a stable enclosure temperature.

SPECIFICATIONS

- PTC (Positive Temperature Coefficient) heating element
- Mounting clip for 35-mm DIN rails EN 50022

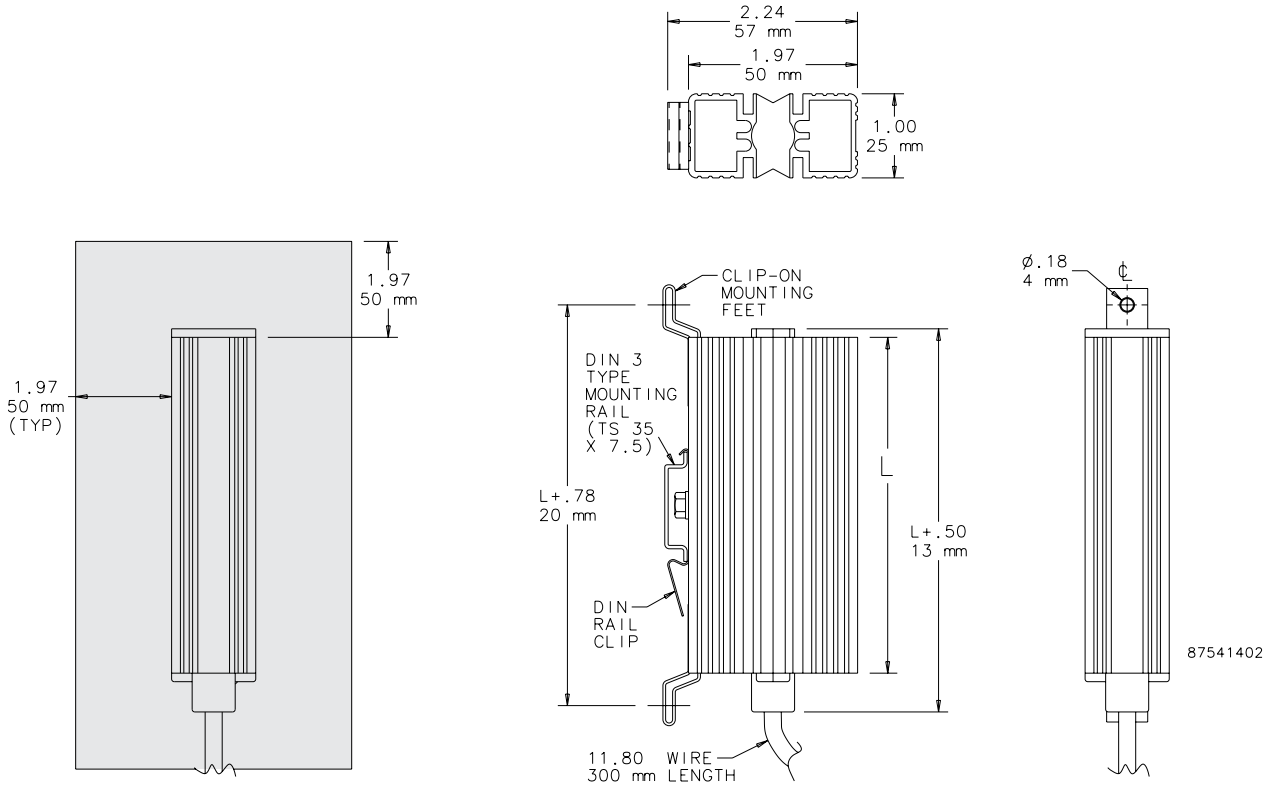
FINISH

- Black anodized, extruded aluminum.

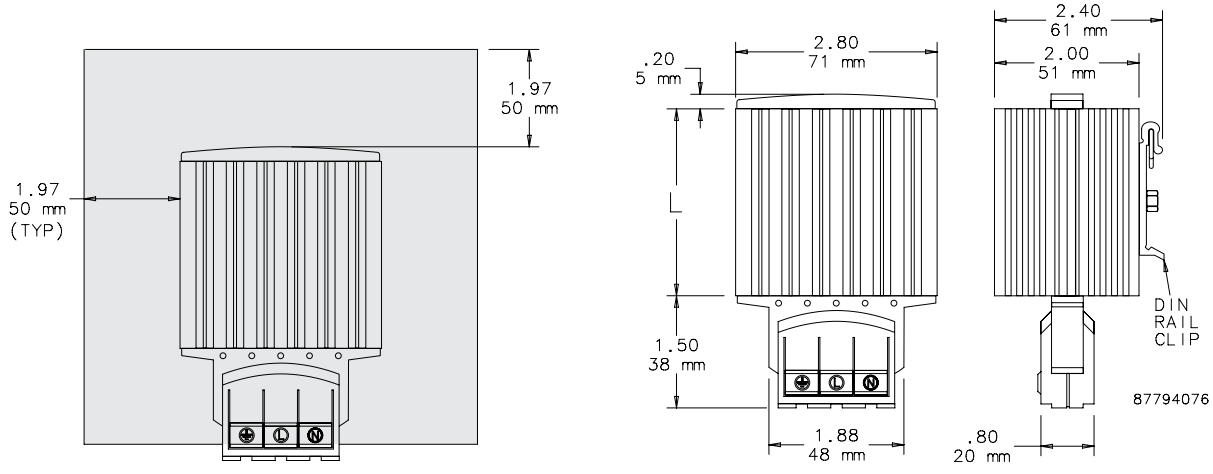
Performance Data **Semiconductor Heater**

CATALOG NUMBERS	DAH101	DAH301	DAH601
ELECTRICAL DATA			
Rated Voltage	**AC/DC 110/120**	**AC/DC 110/120**	**AC/DC 110/250**
Power Consumption (Watts)	10	30	60
Start Nominal Current (Amps)	0.8	1.2	2.5
HEATING PERFORMANCE			
Watts	**10**	**30**	**60**
UNIT CONSTRUCTION			
L (in./mm)	1.97/50	3.93/100	5.5/140
Weight (lb./kg)	0.45/0.20	0.66/0.30	1.10/0.50

Clearance Range for DAH101 and DAH301



Clearance Range for DAH601



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ELECTRIC HEATERS

115/230 Volt
100/200 Watt

115/230 Volt
400/800 Watt

115/230 Volt
1300 Watt

INDUSTRY STANDARDS

UL 508A Component Recognized; File No. E61997

CSA Certified, CSA File No. LR42186
CE

APPLICATION

Protect mechanical, electrical and electronic equipment from low temperatures, condensation and corrosion with this thermostatically controlled, fan-driven heater that maintains a stable enclosure temperature.
Fan draws cool air from the bottom of the enclosure and passes this air across the thermostat and heating element before being released into enclosure cavity. Heated air is discharged through the top of the heater unit.

SPECIFICATIONS

- Aluminum housing
- Thermostat range adjustable from 0 F to 100 F (-18 C to 38 C)
- Four 10-32 x self-tapping screws are included with each heater
- Ball bearing fan
- Terminal strip with clamp connector that accepts both solid and stranded wire

FINISH

- Brushed aluminum

⚠ CAUTION

These electric heaters are not designed for use in dusty, dirty, corrosive, or hazardous locations. Portions of the heater can get hot. Adequate protection must be taken to protect people from potential burns, and to protect other components from this heat. nVent recommends this heater only be installed in a totally-enclosed metal enclosure.

DO NOT INSTALL HEATERS ON WOOD PANELS.
Heat sensitive components should not be placed near the heater discharge area since this air can be quite warm. The clearance range defines the space that must be kept free of these components for proper and safe operation of the heater.

Performance Data **100 and 200 Watt Heaters**

CATALOG NUMBERS	DAH1001A	DAH1002A	DAH2001A	DAH2002A
ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**115**	**230**
Frequency (Hz)	50/60	50/60	50/60	50/60
Power Consumption (Watts)	100	100	200	200
Nominal Current (Amps)	0.98	0.49	1.89	0.95
HEATING PERFORMANCE				
Watts	**100**	**100**	**200**	**200**
UNIT CONSTRUCTION				
Weight (lb./kg)	1.6/0.73	1.6/0.73	1.6/0.73	1.6/0.73
X (in./mm)	4.00/102	4.00/102	6.00/152	6.00/152

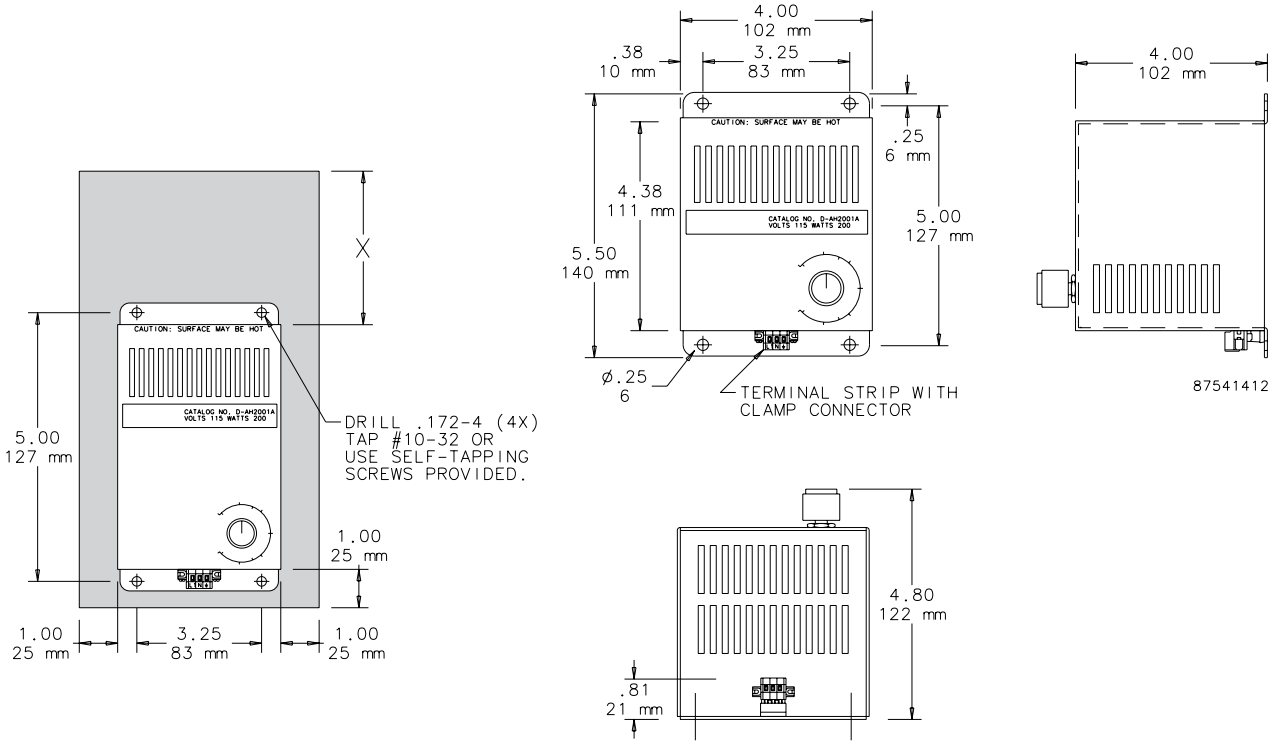
Performance Data **400 and 800 Watt Heaters**

CATALOG NUMBERS	DAH4001B	DAH4002B	DAH8001B	DAH8002B
ELECTRICAL DATA				
Rated Voltage	**115**	**230**	**115**	**230**
Frequency (Hz)	50/60	50/60	50/60	50/60
Power Consumption (Watts)	400	400	800	800
Nominal Current (Amps)	3.72	1.86	7.37	3.69
HEATING PERFORMANCE				
Watts	**400**	**400**	**800**	**800**
UNIT CONSTRUCTION				
Weight (lb./kg)	2.2/1.00	2.2/1.00	2.2/1.00	2.2/1.00
X (in./mm)	6.00/152	6.00/152	8.00/203	8.00/203

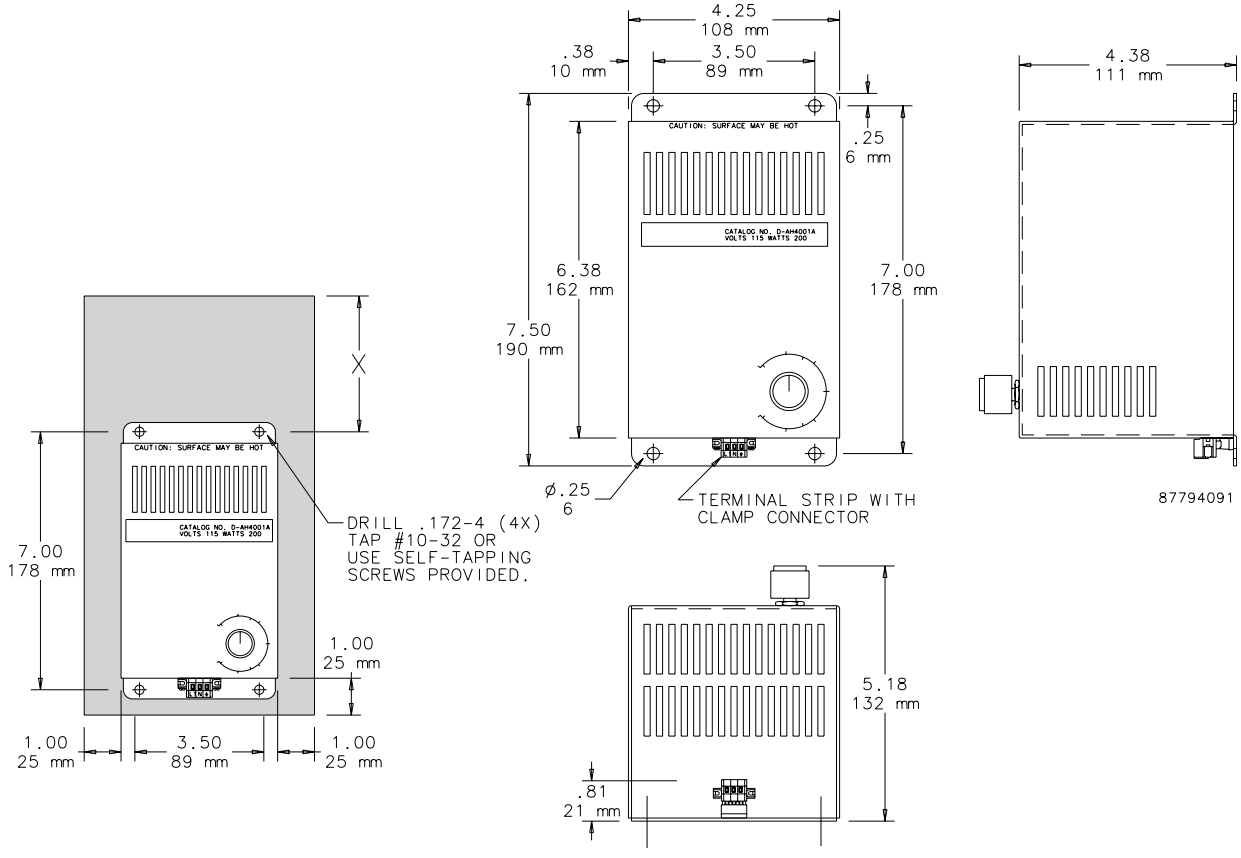
Performance Data **1300 Watt Heaters**

CATALOG NUMBERS	DAH13001C	DAH13002C
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Power Consumption (Watts)	1300	1300
Nominal Current (Amps)	11.5	5.7
HEATING PERFORMANCE		
Watts	**1300**	**1300**
UNIT CONSTRUCTION		
Weight (lb./kg)	3.4/1.54	3.4/1.54
X (in./mm)	8.00/203	8.00/203

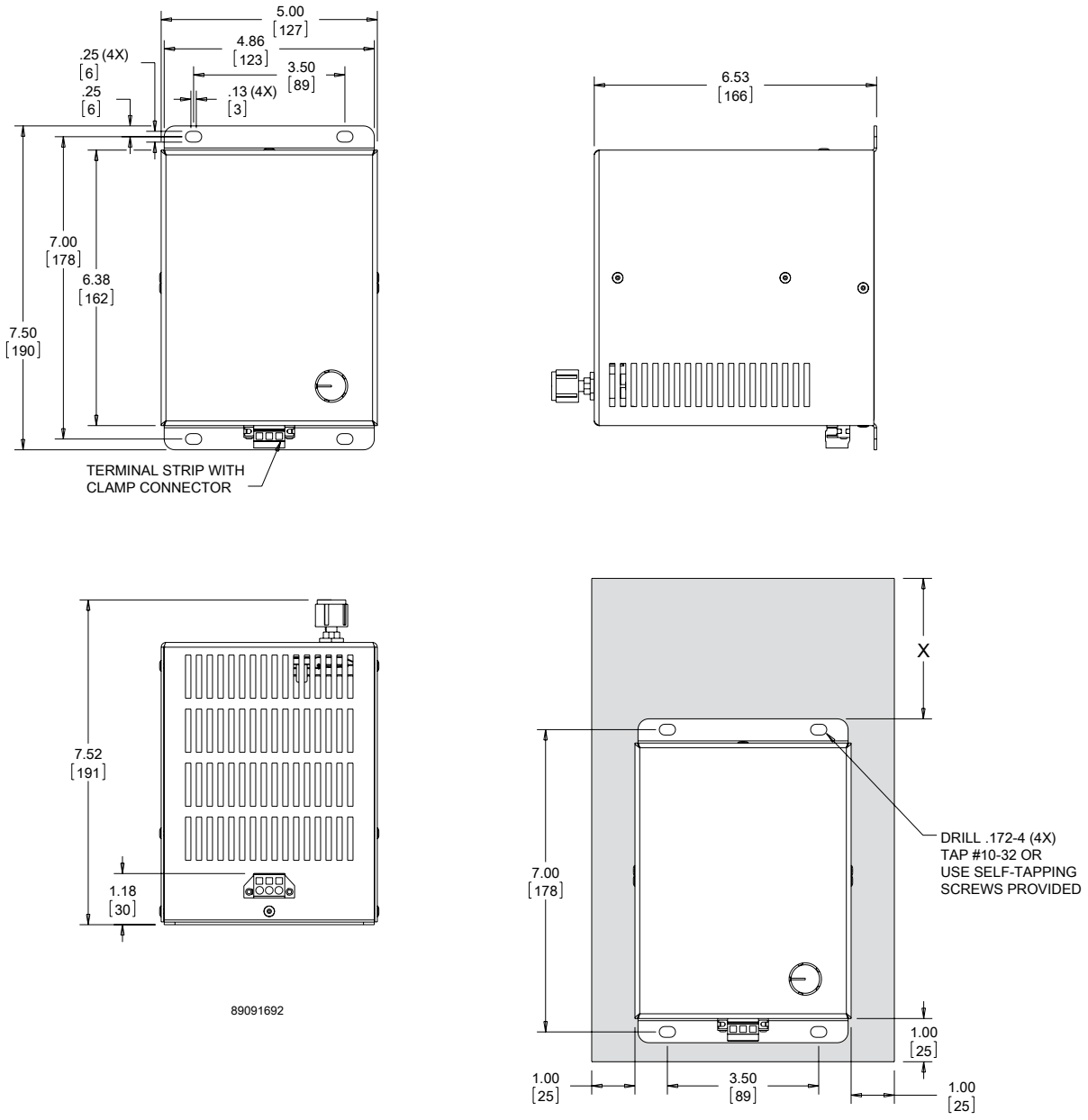
Dimensions and Clearance Range Drawing for DAH1001A, -2A and DAH2001A, -2A



Dimensions and Clearance Range Drawing for DAH4001B, -2B and DAH8001B, -2B



Dimensions and Clearance Range Drawing for DAH13001C and DAH13002C



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HAZARDOUS LOCATION HEATER, ATEX

INDUSTRY STANDARDS

CE
Conformity Certificate LCIE (Laboratoire Central des Industries Electriques) LCIE 01 ATEX 6073
EEx d IIC T4/II 2 GD, IP6x T135°C
IEC 60529, IP65/I (grounded)

APPLICATION

Designed for use in hazardous locations where electrical components require protection from condensation and corrosion, sudden temperature drops and low temperatures.

FEATURES

- Maintenance-free
- High-performance heating cartridge (element)
- Large convection surface
- Extruded aluminum heat sink
- DIN clip for mounting
- Connection cable: Si HF-JZ 3 x AWG 18 x 3.3 ft. (0.75 mm² x 1 m)
- Operating voltage 110-120 VAC

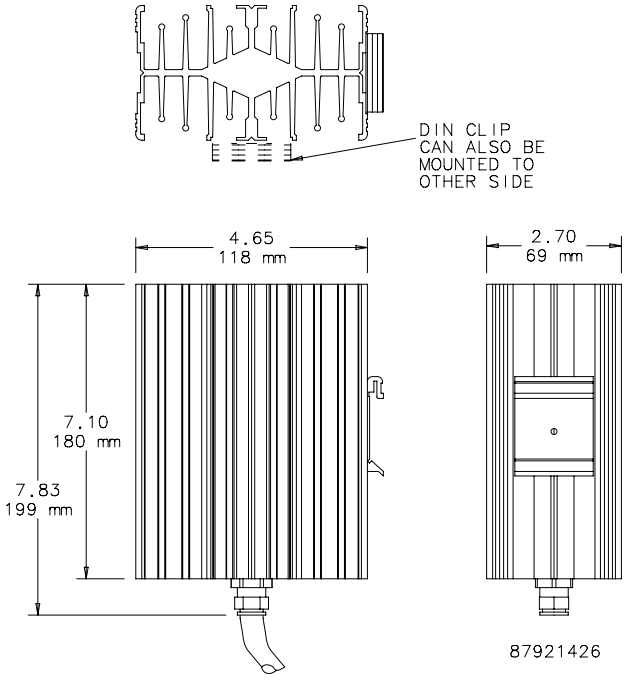
FINISH

- Black anodized

Performance Data **Hazardous Location Heater**

CATALOG NUMBERS	HLHEAT100
DESIGN DATA	
Heating Power (Watts)	100
Surface Temperature T4 (°F/°C) *	275/135
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in. / mm)	7.10/180 x 4.65/118 x 2.70/69

* Surface temperature when mounted vertically.



HAZARDOUS LOCATION HEATERS AND THERMOSTATS

INDUSTRY STANDARDS

CE
cCSAus
See additional certifications in product tables.

APPLICATION

Designed for use in hazardous locations where electrical components require protection from cold freezing temperatures, condensation and corrosion.

SPECIFICATIONS

- 50W, 80W, 200W, 300W, 400W and 600W models available
- Provides freeze protection down to -76 F / -60 C
- Conductive and Convection heating types available
- 50W and 80W models can be mounted directly to manifolds, measuring or analyzing instruments, control valves, and similar equipment
- 200W, 300W, 400W, 600W models are finned heaters that heat the area by transferring the heat from the heater to surrounding air, creating a convection current.
- Two thermostat options available with a 50 F / 10 C or 68 F / 20 C set point

FINISH

- Black Anodized Aluminum

Performance Data **50W and 80W Hazardous Location Heaters**

CATALOG NUMBERS		
	DAHHL501AC	DAHHL801AC
HEATING PERFORMANCE		
Watts	50	80
Heating Type	Conductive	Conductive
Power Regulation	Self Limiting	Self Limiting
HAZARDOUS LOCATION CERTIFICATIONS		
Agency Approvals	ATEX, IECEx, CE, cCSAus	ATEX, IECEx, CE, cCSAus
ATEX / IECEx Certification	PTB 02 ATEX 1116 X IECEx PTB 07.0055X II 2 G Ex db IIC T4 II 2 D Ex tb IIIC T135°C	PTB 02 ATEX 1116 X IECEx PTB 07.0055X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T4 Class II Div 1 Groups E,F,G	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G
ELECTRICAL DATA		
Rated Voltage (VAC or VDC)	110 - 265	110 - 265
Operating Range		
Maximum (F/C)	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60
UNIT CONSTRUCTION		
Material	Black, anodized, seawater-proof aluminium	
ACCESSORIES		
Thermostat*	**HLTSTAT10C, HLTSTAT20C**	
UNIT DIMENSIONS		
Height (in./mm)	3.5/90	3.5/90
Width (in./mm)	1.6/40	1.6/40
Depth (in./mm)	1.2/30	1.2/30
Weight (lb./kg)	1.1/.50	1.1/.50

* Thermostats sold separately as an accessory.

Performance Data **200W, 300W, 400W, 600W Hazardous Location Heaters**

CATALOG NUMBERS	DAHHL200AC	DAHHL300AC	DAHHL4001A	DAHHL4002A	DAHHL6001A	DAHHL6002A
HEATING PERFORMANCE						
Watts	200	300	400	400	600	600
Heating Type	Convection	Convection	Convection	Convection	Convection	Convection
Power Regulation	Self Limiting	Self Limiting	Constant Power	Constant Power	Constant Power	Constant Power
HAZARDOUS LOCATION CERTIFICATIONS						
Agency Approvals	ATEX, IECEx, CE, cCSAus		ATEX, IECEx, CE, cCSAus		ATEX, IECEx, CE, cCSAus	
ATEX / IECEx Certification	PTB 02 ATEX 1116X IECEx PTB 07.0055 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C		PTB 02 ATEX 1041X IECEx PTB 07.0052 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C		PTB 02 ATEX 1041X IECEx PTB 07.0052 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C	
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G		CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G		CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G	
ELECTRICAL DATA						
Rated Voltage (VAC or VDC)	110 - 265	110 - 265	108 - 132	207 -253	108 - 132	207 -253
Operating Range						
Maximum (F/C)	302/150	302/150	302/150	302/150	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60	-76/-60	-76/-60	-76/-60	-76/-60
UNIT CONSTRUCTION						
Material	Black, anodized, seawater-proof aluminium					
ACCESSORIES						
Thermostat*	HLTSTAT10C, HLTSTAT20C					
UNIT DIMENSIONS						
Height (in./mm)	8.9/225	12.8/325	8.9/225	8.9/225	12.8/325	12.8/325
Width (in./mm)	9.0/229	9.0/229	9.0/229	9.0/229	9.0/229	9.0/229
Depth (in./mm)	2.4/60	2.4/60	2.4/60	2.4/60	2.4/60	2.4/60
Weight (lb./kg)	8.7/3.95	12.5/5.65	8.7/3.95	8.7/3.95	12.5/5.65	12.5/5.65

* A thermostat is required for 400W and 600W models. It is sold separately as an accessory.

Performance Data **Hazardous Location Thermostats**

CATALOG NUMBERS	HLTSTAT10C	HLTSTAT20C
HAZARDOUS LOCATION CERTIFICATIONS		
Agency Approvals	ATEX, IECEx, CE, cCSAus	ATEX, IECEx, CE, cCSAus
ATEX / IECEx Certification	PTB 03 ATEX 1136 X IECEx PTB 07.0054 II 2 G Ex db IIC T6 II 2 D Ex tb IIIC T80°C	PTB 03 ATEX 1136 X IECEx PTB 07.0054 II 2 G Ex db IIC T6 II 2 D Ex tb IIIC T80°C
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T6 Class II Div 1 Groups E,F,G	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T6 Class II Div 1 Groups E,F,G
ELECTRICAL DATA		
Rated Voltage (VAC or VDC)	0-275	0-275
Max. Rated Current (Amps)	10	10
Operating Range		
Maximum (F/C)	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60
Thermostats Nominal Setpoints		
Switch-on Temperature (°F/°C)	50 F/10 C	68 F/20 C
Switch-off Temperature (°F/°C)	64 F/18 C	82 F/28 C
UNIT CONSTRUCTION		
Material	Black, anodized, seawater-proof aluminium	
UNIT DIMENSIONS		
Height (in./mm)	1.10/28	1.10/28
Width (in./mm)	.90/24	.90/24
Depth (in./mm)	4.30/108	4.30/108
Weight (lb./kg)	.50/.20	.50/.20

THERMOSTAT CONTROLLER

FEATURES

- Mechanical thermostat for controlling filter fans and heaters
- Registers surrounding air and can switch inductive and resistive loads via snap-action contact
- Clips for vertically mounting on 35 mm DIN rail (EN 60715)
- An integrated resistor (RF) can be connected to improve the switch temperature difference

FINISH

- RAL7035 light gray
- Plastic housing UL94V-0

NOTES

- The contact system of the regulator is subjected to environmental influences and contact restistance may change which can lead to a voltage drop and/or self-heating of contacts
- If the Normally Closed contact is used, the switch temperature difference could be reduced by connecting terminal "N" (RF heating resistor). It causes thermal feedback which is subject to surrounding conditions and thus has to be determined for each individual application.
- Voltage only needs to be specified if the optional use of the RF resistor is desired

INDUSTRY STANDARDS

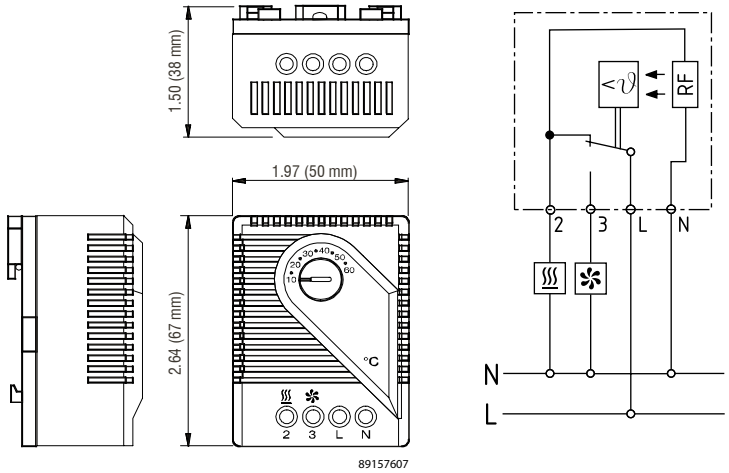
cURus; File No. E164102

CE

Performance Data **Thermostat Controller**

CATALOG NUMBERS	THERM16F	THERM26F	THERM16C	THERM26C
DESIGN DATA				
Control Range	40 to 140 F		5 to 60 C	
Switching Differences:				
Bimetal controllers	Approximately 9 F (5K), tolerance -5.4/+3.6 F (-3/+2K)			
Contact	Snap contact as break contact-NC Make contact-NO			
Switching Capacity:				
Minimum switching capacity	10 mA			
Maximum switching capacity, NC	10 A resistive / 4 A inductive @ AC 115V 10 A resistive / 4 A inductive @ AC 250V DC 30 W			
Maximum switching capacity, NO	5 A resistive / 2 A inductive @ AC 115V 5 A resistive / 2 A inductive @ AC 250V DC 30 W			
Supply Voltage	**115V**	**230V**	**115V**	**230V**
Protection	IP20			
Sensor	Bimetal			
Power Connection	4-pole terminal, clamping torqe 0.5 Nm maximum: solid/stranded wire, 14 AWG maximum (2.5 mm)*			
Ambient Temperature (°F / °C)	-4 to 176 F		-20 to 80 C	
Storage Temperature (°F / °C)	-49 to 149 F		-45 to 65 C	
UNIT CONSTRUCTION				
Temperature Display	Fahrenheit		Celsius	
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.50/67 x 50 x 38			
Weight (oz/g)	2.00/60			

*When connecting with stranded wires, wire end ferrules must be used



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DUAL THERMOSTAT

INDUSTRY STANDARDS

cURus; File No. E164102

CSA File No. 215952
CE

APPLICATION

Two thermostats in one, the Dual Thermostat independently controls equipment heating and cooling systems.

FEATURES

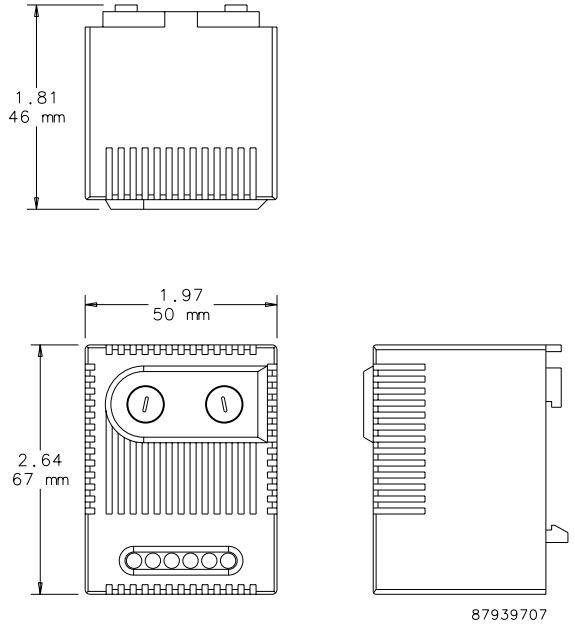
- Two thermostats; one normally closed (NC), red, and one normally open (NO), blue, in one casing
- Wide adjustable temperature range (32 -140 F)
- Thermostatic bimetallic sensor element
- Connection: 4-pole terminal for AWG 14 max (2.5 mm^2)
- Mounting clip for 35-mm DIN rail

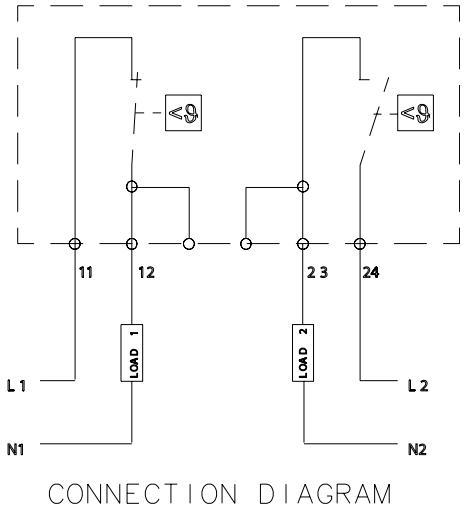
FINISH

- Light-gray plastic, UL94V-0

Performance Data **Dual Thermostat**

CATALOG NUMBERS	ADLTEMP
ELECTRICAL DATA	
Switching Capacity (Normally Closed)	10 A resistive/2 A inductive @250 VAC, DC 30 W
Switching Capacity - Normally Open	5 A resistive/2 A inductive @250 VAC, DC 30 W
Setting Range - Normally Closed (°F/C°)	32/0 to 140/60
Setting Range - Normally Open (°F/C°)	32/0 to 140/60
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.81/67 x 50 x 46





CONNECTION DIAGRAM

ELECTRONIC HYGROTHERM

APPLICATION

The Electronic Hygrotherm senses ambient temperature and relative air humidity and adjusts a connected device to maintain temperature and humidity set points.

FEATURES

- Temperature (32-140 F) and humidity (50%-90% RH) adjustment
- High switching capacity
- Optical function displays (LED) in each control
- Mounting clip for 35-mm DIN rail
- Change-over contact (relay)
- Connection: 5-pole terminal for AWG 14 max (2.5-mm square). Clamping torque .5 Nm (4.4 in-lbs) maximum.
- Plastic housing UL94V-0
- Vertical mounting
- Operating voltage is AC 100-240 V with maximum switching capacity of 10 A resistive / 1.6 A inductive at AC 240 V

FINISH

- Light-gray plastic UL94V-0

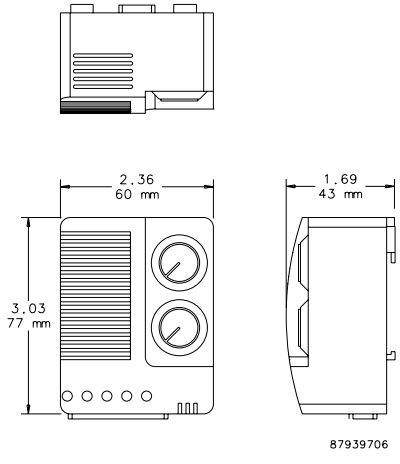
INDUSTRY STANDARDS

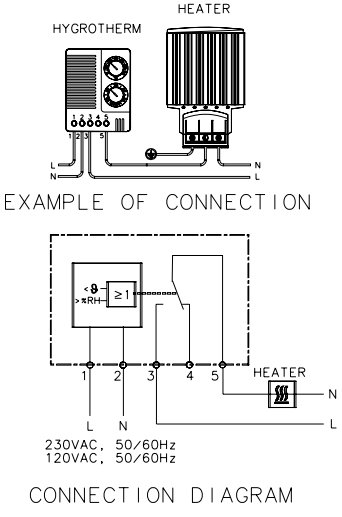
cURus; File No. E164102

CE

Performance Data **Electronic Hygrotherm**

CATALOG NUMBERS	ATEMHUM
ELECTRICAL DATA	
Hysteresis	~ 3.6 F (2K) ± 1.8 F (1K) tolerance
Humidity Set Point (adjustable)	50-90% RH
Temperature Set Point (adjustable) (°F/°C)	32/0 to 140/60
Operating Temperature Range (°F/°C)	-40 to 140/-40 to 60
Storage Temperature (°F/°C)	-40 to 140/-40 to 60
CONTACTS	
3 and 5	
Close at...	humidity rise or temperature drop
Open at...	humidity drop or temperature rise
Use for...	heaters, dehumidifiers, low-temp alarms
4 and 5	
Close at...	humidity drop or temperature rise
Open at...	humidity rise or temperature drop
Use for...	cooling, humidifiers, high-temp alarms
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	3.03 x 2.36 x 1.69/77 x 60 x 43





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MECHANICAL HYGROSTAT

INDUSTRY STANDARDS

cURus; File No. E164102

CE

APPLICATION

The Mechanical Hygrostat controls relative air humidity inside an enclosure to prevent condensation and corrosion that can damage components. It can also be connected to an enclosure heater, cooling fans, warning lights or other devices.
The critical relative humidity (RH) level for most components is 65 percent. Above 65 percent RH, condensation can form and cause electrical equipment to malfunction.

FEATURES

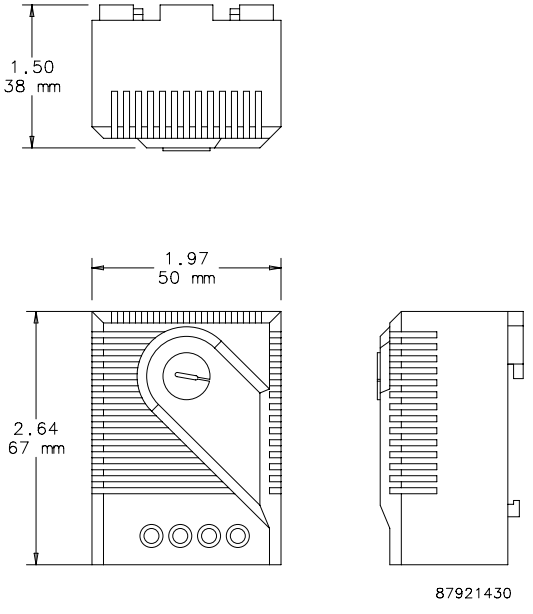
- Adjustable relative humidity range
- High switching capacity
- Long service life (>100,000 cycles)
- Maximum permissible air velocity of 50 ft./sec. (15 m/s)
- Maximum switching voltage = 250 VAC
  250 V should be switched only in a non-condensing environment
- Change-over contact
- Mounting clip for 35-mm DIN rail
- Connection: 3-pole terminal for AWG 14 max. (2.5-mm squared)
- Contact resistance less than 10 mΩ

FINISH

- Light-gray plastic, UL94V-0

Performance Data **Mechanical Hygrostat**

CATALOG NUMBERS	AMHUM
ELECTRICAL DATA	
Switching Capacity (Minimum)	100mA @ AC/DC 20 V
Switching Capacity (Maximum)	5A @ AC 250 V (resistive load) 0.2A @ AC 250 V (inductive load at cos O = 0.8) DC 20W
Operating Temperature Adjustable) (°F/°C)	32/0 to 140/60
Storage Temperature (°F/°C)	-40/-40 to 140/60
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.50/67 x 50 x 38
Weight (oz/g)	2.00/60



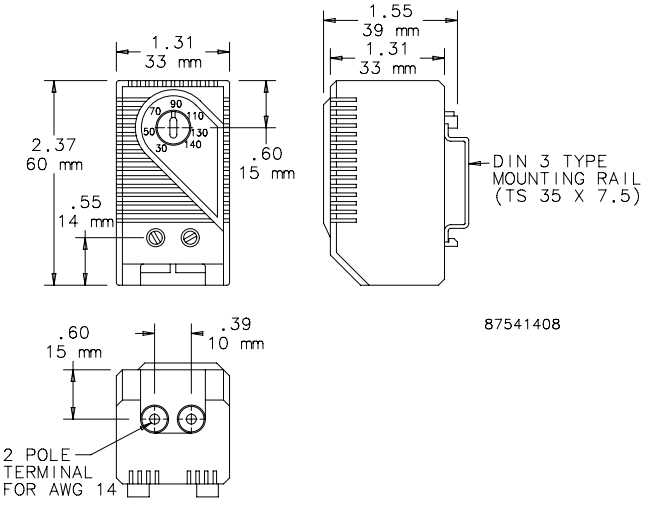
TEMPERATURE CONTROL SWITCH

FEATURES

- Additional label for conversion to Celsius scale and blank label to cover set point range label when adjustment after initial setting is not desired are included
- Bimetal temperature sensor
- Plastic housing
- Connections consist of tubular screw terminals for AWG 14 (.04 sq. in.)
- Provision for both panel mounting and DIN rail mounting

FINISH

- Molded plastic housing is black



INDUSTRY STANDARDS

cURus; File No. E164102
UL94-V0

Protection rating IEC IP30
CSA Certified, File Number 215952
CE

APPLICATION

These easy-to-install thermostats regulate and monitor air temperature in enclosures that contain heat-emitting equipment. Thermostats prolong heater and fan life expectancy by controlling operation time and increase electrical component working efficiency by exposing them to fewer environmental contaminants.

Performance Data **Temperature Control Switch**

CATALOG NUMBERS	ATEMNC	ATEMNO
ELECTRICAL DATA		
Maximum Load (Switching Capacity)		
120 VAC	15 A resistive / 2 A inductive @ 120 VAC	
250 VAC	10 A resistive / 2 A inductive @ 250 VAC	
DC	DC 30 W	
Minimum load	20 mA (all voltages)	
Contact Type	NC (normally closed), quick acting	NO (normally open), quick acting
Control Application	Heater	Fan
UNIT CONSTRUCTION		
Unit Dimensions - H x W x D (in./mm)	2.37 x 1.31 x 1.55/60 x 33 x 39	

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PANEL-MOUNT FAN SPEED CONTROLS

APPLICATION

Perfect for offices, classrooms and other noise-sensitive areas. Fan Speed Control optimizes airflow in a cabinet or rack, balancing air volume requirements with noise level and power use.

FEATURES

- Automatically adjusts fan speed depending on remote temperature sensor input
- Temperature set point is field adjustable; preset at 35 C (95 F)
- Idle speed and temperature slope are field-adjustable
- Push-to-reset thermal circuit breaker inside control housing
- Compact polycarbonate control housing can be mounted in any position
- NEMA 5-15R outlet provides power to fan
- Six-foot (1.83-m) power cord plugs into standard 120 V, 50 or 60 Hz outlet
- Remote temperature sensor with 10-ft. (3.05-m) lead mounts in airflow
- Mounting brackets included

FINISH

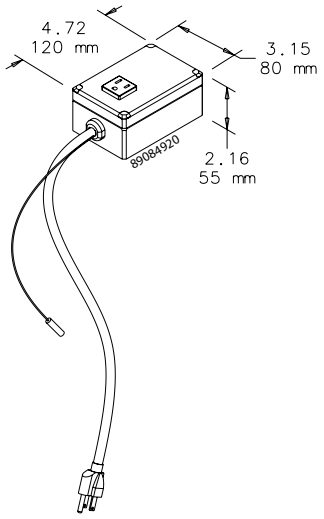
- AFANTSC: Light-gray polycarbonate control housing

INDUSTRY STANDARDS

UL 508 Listed; File No. E249700
cUL Listed per CSA C22.2 No. 14; File No. E249700

Performance Data **Panel-Mount Fan Speed Controls**

CATALOG NUMBERS	AFANTSC
ELECTRICAL DATA	
Rated Voltage	**120 VAC**
Maximum Nominal Current (Amps)	2
Temperature Settings (°F)	86, 95, 104, 113
Temperature Settings (°C)	30, 35, 40, 45
DESIGN DATA	
Description	Panel-Mount Fan Speed Control
Application	Fan speed controlled automatically with remote temperature sensor



HAZARDOUS LOCATION THERMOSTAT

INDUSTRY STANDARDS

CE
Conformity Certificate LCIE (Laboratoire Central des Industries Electriques) LCIE 01 ATEX 6074

EEx d IIC T6/II 2 GD, IP6x T85 °C
IEC 60529, IP65/1 (grounded)

APPLICATION

Compact mechanical thermostat for temperature control of heaters or low-temperature alarms in enclosures that are used in explosion-hazardous areas.

FEATURES

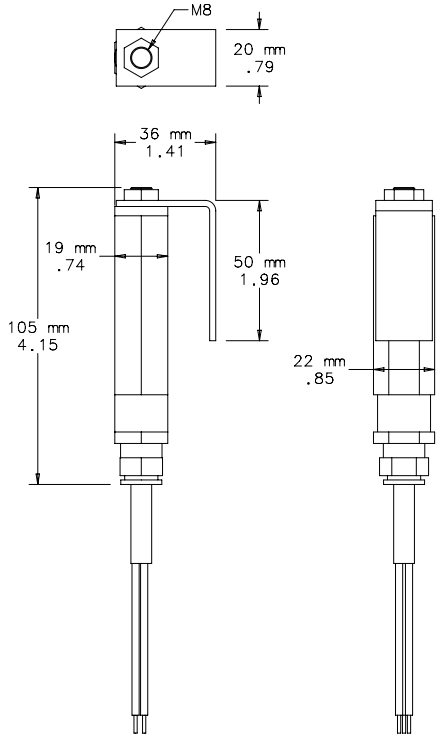
- Compact design
- Set temperature
- High switching capacity
- Small hysteresis (switching difference)
- Long service life (greater than 100,000 cycles)
- Can usually be connected directly and switched without the need for additional relays
- Thermostatic bimetallic sensor element
- One-pole contact opens with rising temperature
- Mounting bracket and DIN clip for mounting
- Connection cable: Si HF - JZ 3 x AWG 18 x 3.3 ft. (0.75 mm² x 1 m)

FINISH

- Black anodized aluminum

Performance Data **Hazardous Location Thermostat**

CATALOG NUMBERS	HLTHERMNC
DESIGN DATA	
Maximum Operating Voltage (AC)	250 V
Maximum Operating Voltage (DC)	100 V
Switching Capacity @ 250 VAC	4A resistive; 1A ind. (cos f = 0.6)
Switch Off (Open) Temperature (°F)	77 +/- 6
Switch Off (Open) Temperature (°C)	25 +/- 3K
Switch On (Closed) Temperature below Switch Off Temperature (°F)	7.2 +/- 2
Switch On (Closed) Temperature below Switch Off Temperature (°C)	4 +/- 1K



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CHAPTER 11
HAZARDOUS LOCATIONS

ZONEX ATEX- AND IECEX-CERTIFIED, TYPE 4X

ZONEX enclosures are designed and certified to meet ATEX Directive 94/9/EC for hazardous locations and safely house electrical and electronic devices in EEx e Zone 1- and Zone 2-rated increased safety applications.

EJBX SERIES JUNCTION BOXES

EJBX series junction boxes are enclosures applicable for Zone 1, 2, 21 or 22 with ATEX and IECEx certifications. They are suitable for chemically corrosive and extreme environments. They can be used as junction boxes with or without terminals or for installation of electrical equipment such as circuit breakers, signals, disconnectors, remote control switches or transformers. Body and cover can be drilled and threaded according to customers' specifications.

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SPECTRACOOL HAZARDOUS LOCATION INDOOR/OUTDOOR

These hazardous location certified air conditioners are rated for Class 1 Div 2 environments. They have a broad range of capacities from 4K through 11K and utilize a non-incendive design for lighter weight and easier installations.

Applications:

- Onshore and offshore oil and gas
- Chemical and petrochemical
- Mining
- Pharmaceutical
- Any location with potentially hazardous atmospheres created by vapor

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ZONEX ATEX- AND IECEX-CERTIFIED, TYPE 4X

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
ATEX
Sira 09ATEX3224U
Ex e IIC Gb
Ex tb IIIC Db IP 66

EN 60079-0:2009
EN 60079-7:2007
EN 61241-0:2006
EN 61241-1:2004

IECEx
IECEx SIR 09.0099U
Ex e IIC Gb
Ex tb IIIC Db IP 66

IEC 60079-0:2007-2010
IEC 60079-7:2006-2007
IEC 61241-0:2004
IEC 61241-1:2004

AEx/Ex

UL File E67456 Class I, Zone I AEx e IIC Tamb -20C to +60C Ex e IIC U Tamb -20C to +60C

UL 508A Listed; Type 4, 4X, 12; File No. E61997 cUL C22.2 No. 94 Listed; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

ZONEX Enclosures are designed and certified to meet ATEX Directive 94/9/EC as well as IECEx and AEx standards for increased safety in housing electrical components in Zone 1 and Zone 2 applications.

Hoffman's ATEX Ex e enclosures are not intended for use in explosion-proof or flame-proof applications.

FEATURES

- Easy-to-use Type 316 stainless steel quarter-turn door latching
- 3-mm double-bit insert for security
- Slot and through-hole side-mount hanging brackets
- Lift-off door hinges
- Removable gland plates; one or three gland plates standard

SPECIFICATIONS

- Fabricated from Type 316 stainless steel
- Type 316 stainless steel external fasteners
- Gray silicone high-temperature gasket on doors and gland plates; operating temperature range -55 C to +180 C
- Internal/external brass earth/ground provision

ACCESSORIES

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Hazardous Location Breather Drains, page 1280
Hazardous Location Hole Seals, page 1281
Hazardous Location Window Kits, page 1277

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

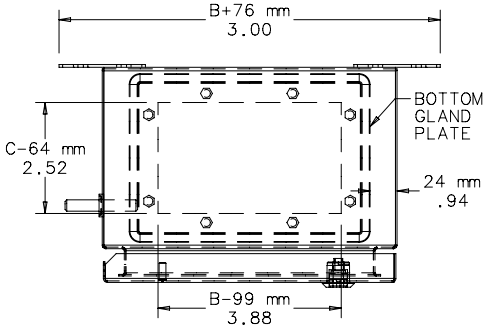
Hoffman offers a ZONEX-specific modification program with ATEX certification.

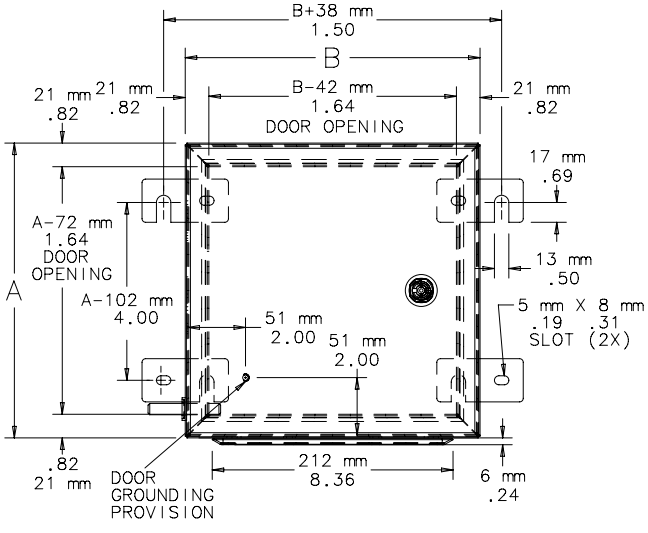
BULLETIN: HL

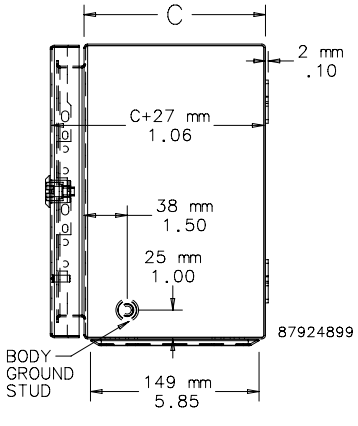
Standard Product **ZONEX Enclosures with One Gland Plate**

Catalog Number	AxBxC mm/in.	Number of Gland Plates	White Panel	Conductive Panel	Panel Size D x E mm/in.
ATEX262616SS61	260 x 260 x 160 10.24 x 10.24 x 6.30	1	ATEX26P26	ATEX26P26G	214 x 214 8.44 x 8.44
ATEX262620SS61	260 x 260 x 205 10.24 x 10.24 x 8.07	1	ATEX26P26	ATEX26P26G	214 x 214 8.44 x 8.44
ATEX303016SS61	306 x 306 x 160 12.05 x 12.05 x 6.30	1	ATEX30P30	ATEX30P30G	260 x 260 10.25 x 10.25
ATEX303020SS61	306 x 306 x 205 12.05 x 12.05 x 8.07	1	ATEX30P30	ATEX30P30G	260 x 260 10.25 x 10.25
ATEX382616SS61	380 x 260 x 160 14.96 x 10.24 x 6.30	1	ATEX38P26	ATEX38P26G	334 x 214 13.16 x 8.44
ATEX382620SS61	380 x 260 x 205 14.96 x 10.24 x 8.07	1	ATEX38P26	ATEX38P26G	334 x 214 13.16 x 8.44
ATEX453816SS61	458 x 382 x 160 18.03 x 15.04 x 6.30	1	ATEX45P38	ATEX45P38G	412 x 336 16.23 x 13.24
ATEX484820SS61	480 x 480 x 205 18.90 x 18.90 x 8.07	1	ATEX48P48	ATEX48P48G	434 x 434 17.10 x 17.10
ATEX503516SS61	500 x 350 x 160 19.69 x 13.78 x 6.30	1	ATEX50P35	ATEX50P35G	454 x 304 17.89 x 11.98
ATEX503520SS61	500 x 350 x 205 19.69 x 13.78 x 8.07	1	ATEX50P35	ATEX50P35G	454 x 304 17.89 x 11.98
ATEX624520SS61	620 x 450 x 205 24.41 x 17.72 x 8.07	1	ATEX62P45	ATEX62P45G	574 x 404 22.61 x 15.92
ATEX745520SS61	740 x 550 x 205 29.13 x 21.65 x 8.07	1	ATEX74P55	ATEX74P55G	694 x 504 27.33 x 19.85
ATEX765020SS61	762 x 508 x 205 30.00 x 20.00 x 8.07	1	ATEX76P50	ATEX76P50G	716 x 462 28.20 x 18.20

Purchase panels separately.



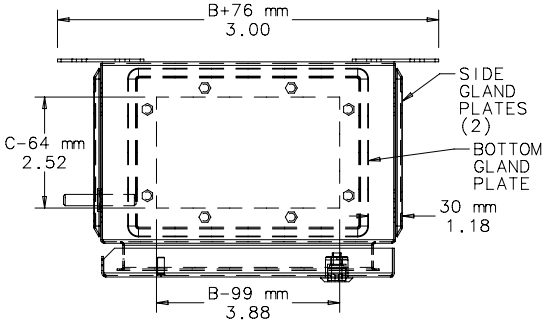


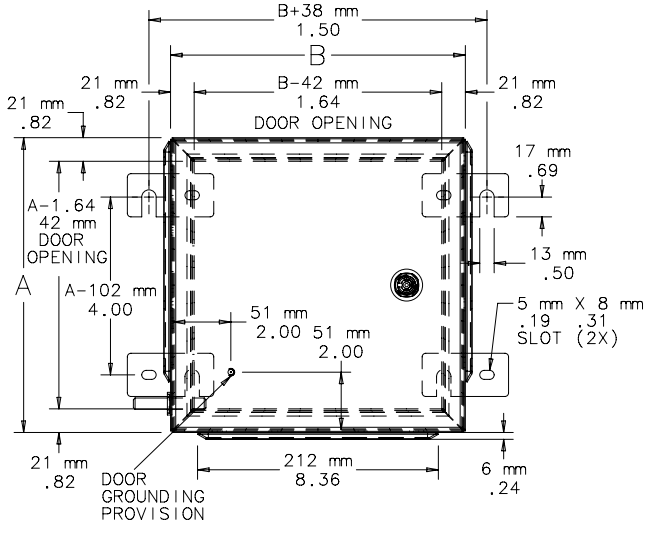


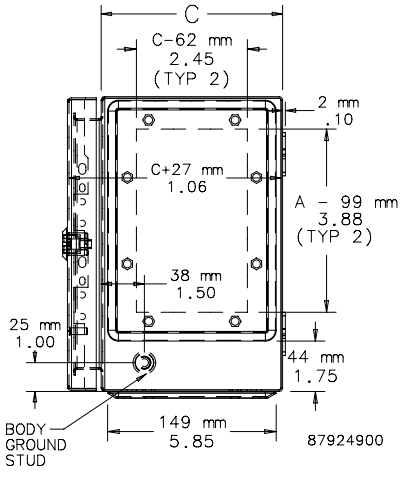
Standard Product **ZONEX Enclosures with Three Gland Plates**

Catalog Number	AxBxC mm/in.	Number of Gland Plates	White Panel	Conductive Panel	Panel Size D x E mm/in.
ATEX262616SS63	260 x 260 x 160 10.24 x 10.24 x 6.30	3	ATEX26P26	ATEX26P26G	214 x 214 8.44 x 8.44
ATEX262620SS63	260 x 260 x 205 10.24 x 10.24 x 8.07	3	ATEX26P26	ATEX26P26G	214 x 214 8.44 x 8.44
ATEX303016SS63	306 x 306 x 160 12.05 x 12.05 x 6.30	3	ATEX30P30	ATEX30P30G	260 x 260 10.25 x 10.25
ATEX303020SS63	306 x 306 x 205 12.05 x 12.05 x 8.07	3	ATEX30P30	ATEX30P30G	260 x 260 10.25 x 10.25
ATEX382616SS63	380 x 260 x 160 14.96 x 10.24 x 6.30	3	ATEX38P26	ATEX38P26G	334 x 214 13.16 x 8.44
ATEX382620SS63	380 x 260 x 205 14.96 x 10.24 x 8.07	3	ATEX38P26	ATEX38P26G	334 x 214 13.16 x 8.44
ATEX453816SS63	458 x 382 x 160 18.03 x 15.04 x 6.30	3	ATEX45P38	ATEX45P38G	412 x 336 16.23 x 13.24
ATEX484820SS63	480 x 480 x 205 18.90 x 18.90 x 8.07	3	ATEX48P48	ATEX48P48G	434 x 434 17.10 x 17.10
ATEX503516SS63	500 x 350 x 160 19.69 x 13.78 x 6.30	3	ATEX50P35	ATEX50P35G	454 x 304 17.89 x 11.98
ATEX503520SS63	500 x 350 x 205 19.69 x 13.78 x 8.07	3	ATEX50P35	ATEX50P35G	454 x 304 17.89 x 11.98
ATEX624520SS63	620 x 450 x 205 24.41 x 17.72 x 8.07	3	ATEX62P45	ATEX62P45G	574 x 404 22.61 x 15.92
ATEX745520SS63	740 x 550 x 205 29.13 x 21.65 x 8.07	3	ATEX74P55	ATEX74P55G	694 x 504 27.33 x 19.85
ATEX765020SS63	762 x 508 x 205 30.00 x 20.00 x 8.07	3	ATEX76P50	ATEX76P50G	716 x 462 28.20 x 18.20

Purchase panels separately.





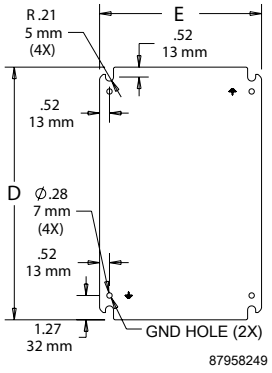


ZONEX ACCESSORY PANELS

Steel panels are 12 gauge finished with white polyester powder paint or with a conductive, corrosion-resistant coating. Panel mounting hardware is furnished with all ZONEX enclosures.

BULLETIN: HL

Catalog Number	AxB mm	AxB in.	Panel Type	Panel Size D x E (mm)	Panel Size D x E (in.)
ATEX26P26	215 x 215	8.46 x 8.46	White	214 x 214	8.44 x 8.44
ATEX26P26G	215 x 215	8.46 x 8.46	Conductive	214 x 214	8.44 x 8.44
ATEX30P30	261 x 261	10.28 x 10.28	White	260 x 260	10.25 x 10.25
ATEX30P30G	261 x 261	10.28 x 10.28	Conductive	260 x 260	10.25 x 10.25
ATEX38P26	335 x 215	13.19 x 8.46	White	334 x 214	13.16 x 8.44
ATEX38P26G	335 x 215	13.19 x 8.46	Conductive	334 x 214	13.16 x 8.44
ATEX45P38	413 x 337	16.26 x 13.27	White	412 x 336	16.23 x 13.24
ATEX45P38G	413 x 337	16.26 x 13.27	Conductive	412 x 336	16.23 x 13.24
ATEX48P48	435 x 435	17.13 x 17.13	White	434 x 434	17.10 x 17.10
ATEX48P48G	435 x 435	17.13 x 17.13	Conductive	434 x 434	17.10 x 17.10
ATEX50P35	455 x 305	17.91 x 12.01	White	454 x 304	17.89 x 11.98
ATEX50P35G	455 x 305	17.91 x 12.01	Conductive	454 x 304	17.89 x 11.98
ATEX62P45	574 x 405	22.60 x 15.94	White	574 x 404	22.61 x 15.92
ATEX62P45G	574 x 405	22.60 x 15.94	Conductive	574 x 404	22.61 x 15.92
ATEX74P55	695 x 505	27.36 x 19.88	White	694 x 504	27.33 x 19.85
ATEX74P55G	695 x 505	27.36 x 19.88	Conductive	694 x 504	27.33 x 19.85
ATEX76P50	717 x 463	28.23 x 18.23	White	716 x 462	28.20 x 18.20
ATEX76P50G	717 x 463	28.23 x 18.23	Conductive	716 x 462	28.20 x 18.20



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ZONEX ATEX- AND IECEX-CERTIFIED, TYPE 4X, SCREW COVER

APPLICATION

ZONEX Enclosures are designed and certified to meet ATEX Directive 94/9/EC and IECEx standard for increased safety in housing electrical components in Zone 1 and Zone 2 applications.

Hoffman's ATEX Ex e enclosures are not intended for use in explosion-proof or flame-proof applications.

FEATURES

- 1-piece continuous gasket on door; Type 316 stainless steel cover screws
- Internal weldnuts for panel or DIN rail mounting
- Hardware for panel and bonding provisions included
- Operating temperature range: -40 C to +70 C standard polyurethane gasket; -55 C to +180 C optional silicone gasket

SPECIFICATIONS

- Fabricated from Type 316 stainless steel
- Full-width welded-on top and bottom wall-mounting brackets
- Increased safety: Ex e. ATEX and IECEx certified

FINISH

#4 brushed finish on external surfaces

ACCESSORIES

ZONEX Accessory Panels, page 1255
Hazardous Location Hole Seals, page 1281
Hazardous Location Breather Drains, page 1280

NOTES

Intrinsically safe terminal blocks can be installed in populated non-standard enclosures.
IECEx populated enclosures require IECEx-certified components specifically listed in Certification (See IECEx SIR 09.0100 for more detail).

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Hoffman offers a ZONEX-specific modification program with certification. Contact your local Hoffman sales office or distributor for complete information.

Material changes: Type 304 stainless steel, painted mild steel or aluminum
Gasket changes: High-temperature silicone gasket
Holes and cutouts
Paint
DIN rails
Ground bars
Terminal block installation and marking
Tagging

BULLETIN: HL

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
ATEX
Sira 09ATEX3224U
Ex e IIC Gb
Ex tb IIIC Db IP 66
EN60079-0:2009
EN60079-7:2007
EN61241-0:2006
EN61241-1:2004

IECEx
IECEx SIR 09.0099U
Ex e IIC Gb
Ex tb IIIC Db IP 66
IEC 60079-0:2007-2010
IEC 60079-7:2006-2007
IEC 61241-0:2004
IEC 61241-1:2004

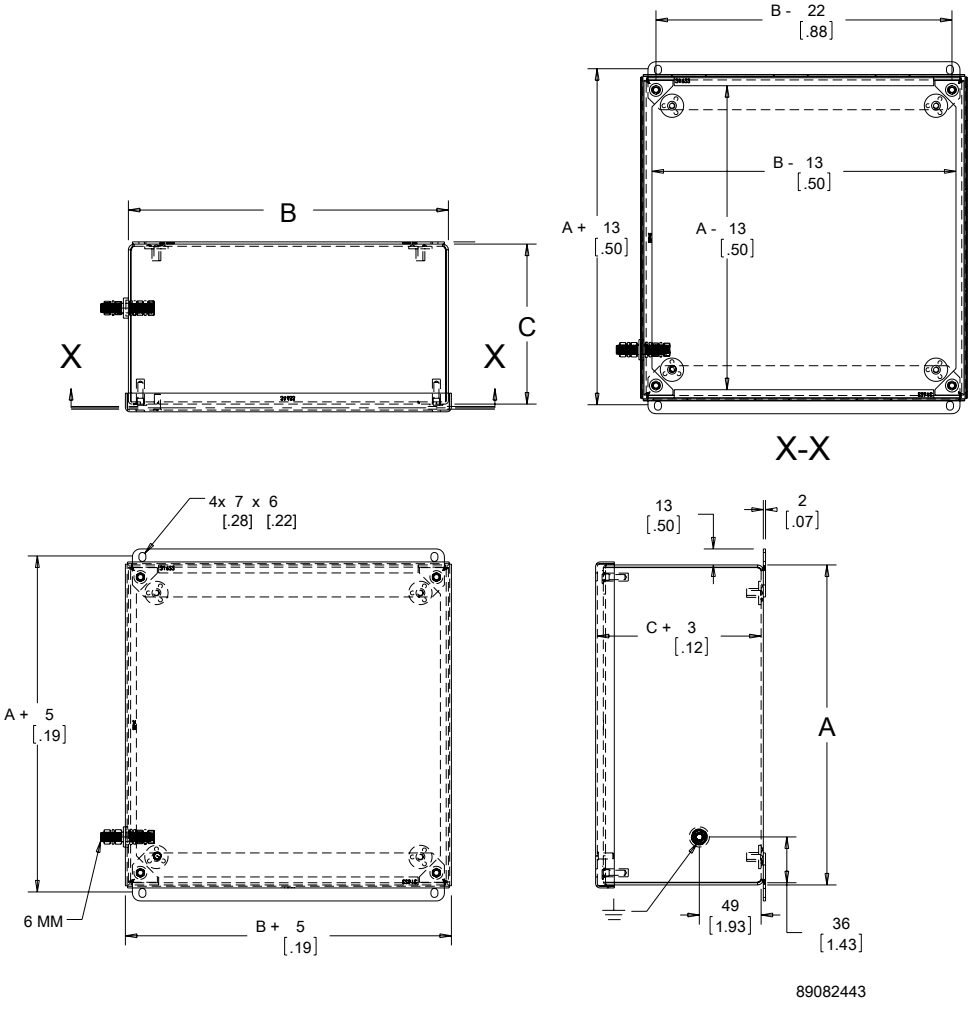
Type 4, 4X, 12; File No. E61997
cUL C22.2 No. 94 Listed; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

Standard Product

Catalog Number	AxBxC mm	AxBxC in.	Optional Panel	Panel Dimensions (mm)	Panel Dimensions (in.)
EXE443SS6	102 x 102 x 76	4.00 x 4.00 x 3.00	A4P4G	73 x 73	2.88 x 2.88
EXE664SS6	152 x 152 x 102	6.00 x 6.00 x 4.00	A6P6G	124 x 124	4.88 x 4.88
EXE774SS6	178 x 178 x 102	7.00 x 7.00 x 4.00	A7P7G	149 x 149	5.88 x 5.88
EXE965SS6	216 x 146 x 127	8.50 x 5.75 x 5.00	A9P6G	187 x 118	7.38 x 4.63
EXE10105SS6	254 x 254 x 127	10.00 x 10.00 x 5.00	A10P10G	222 x 226	8.75 x 8.88

AxBxC dimensions for EXE965SS6 are nominal.



ZONEX ATEX- AND IECEX-CERTIFIED, TYPE 4X, HINGED COVER

FEATURES

- 10-mm brass internal/external bonding provision
- Type 316 stainless steel quarter-turn latch with slotted insert
- Large 3-mm-thick, flat gasketed gland plate(s)
- Continuous seal gasket on door and gland plate(s)
- Hardware for panel and bonding provisions included
- Operating temperature range: -40 C to +70 C standard polyurethane gasket

SPECIFICATIONS

- Fabricated from Type 316 stainless steel
- 3-mm thick individual welded-on top and bottom wall-mounting brackets
- Increased safety: Ex e. IECEx e certified

FINISH

#4 brushed finish

ACCESSORIES

ZONEX Accessory Panels, page 1255
Lock Inserts, page 1438
Wing Knob Latch, page 1438
Gland Plate, page 1261
Hazardous Location Heaters and Thermostats, page 1316
Hazardous Location Window Kits, page 1277
Hazardous Location Hole Seals, page 1281
Hazardous Location Breather Drains, page 1280

NOTES

Intrinsically safe terminal blocks can be installed in populated non-standard enclosures.
IECEx populated enclosures require IECEx-certified components specifically listed in Certification (See IECEx SIR 09.0100 for more detail).

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Hoffman offers a ZONEX-specific modification program with ATEX certification. Contact your local Hoffman sales office or distributor for complete information.

Material changes: Type 304 stainless steel, painted mild steel or aluminum
Gasket changes: High-temperature silicone gasket
Side-mount brackets available
Holes and cutouts
Paint
DIN rails
Ground bars
Terminal block installation and marking
Tagging
Accessory installations: drain/breathers and stopping plugs

BULLETIN: HL

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
ATEX
Sira 09ATEX3224U
Ex e IIC Gb
Ex tb IIIC Db IP 66
EN60079-0:2009
EN60079-7:2007
EN61241-0:2006
EN61241-1:2004

IECEx
IECEx SIR 09.0099U
Ex e IIC Gb
Ex tb IIIC Db IP 66
IEC 60079-0:2007-2010
IEC 60079-7:2006-2007
IEC 61241-0:2004
IEC 61241-1:2004

UL Type 4, 4X, 12; File No. E61997
cUL C22.2 No. 94 Listed; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

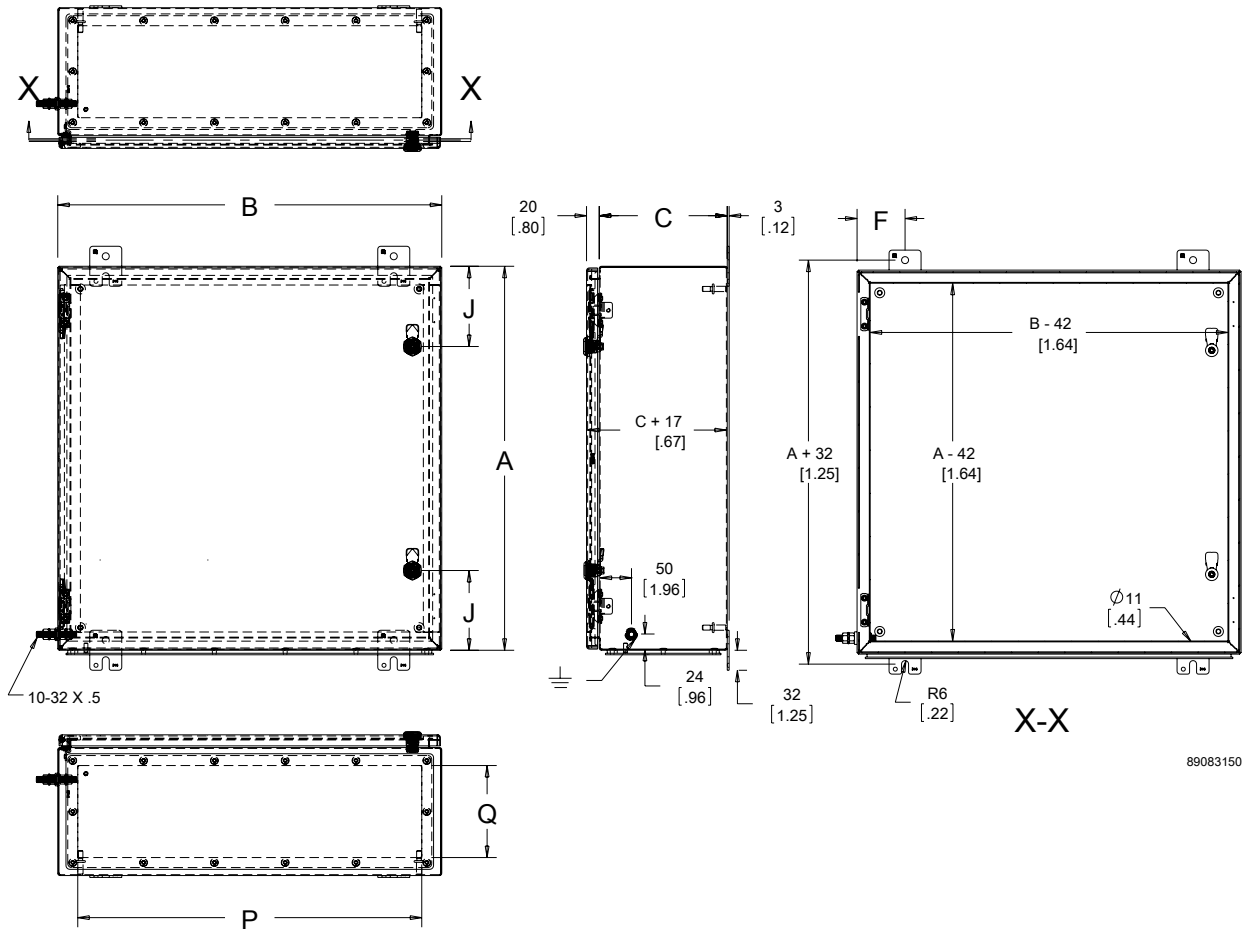
APPLICATION

ZONEX Enclosures are designed and certified to meet ATEX Directive 94/9/EC as well as IECEx standards for increased safety in housing electrical components in Zone 1 and Zone 2 applications.

Hoffman's ATEX Ex e enclosures are not intended for use in explosion-proof or flame-proof applications.

Standard Product

Catalog Number	AxBxC mm/in.	F mm/in.	J mm/in.	P mm/in.	Q mm/in.	No. of latches	Optional Panel
EXE12126SS61	305 x 305 x 152 12.00 x 12.00 x 6.00	32 1.25	152 6.00	241 9.50	95 3.75	1	CP1212G
EXE12128SS61	305 x 305 x 203 12.00 x 12.00 x 8.00	32 1.25	152 6.00	241 9.50	146 5.75	1	CP1212G
EXE16126SS61	406 x 305 x 152 16.00 x 12.00 x 6.00	32 1.25	203 8.00	241 9.50	95 3.75	1	CP1612G
EXE16128SS61	406 x 305 x 203 16.00 x 12.00 x 8.00	76 3.00	203 8.00	241 9.50	146 5.75	1	CP1612G
EXE16166SS61	406 x 406 x 152 16.00 x 16.00 x 6.00	76 3.00	203 8.00	343 13.50	95 3.75	1	CP1616G
EXE16168SS61	406 x 406 x 203 16.00 x 16.00 x 8.00	76 3.00	203 8.00	343 13.50	146 5.75	1	CP1616G
EXE20166SS61	508 x 406 x 152 20.00 x 16.00 x 6.00	76 3.00	254 10.00	343 13.50	95 3.75	1	CP2016G
EXE20168SS61	508 x 406 x 203 20.00 x 16.00 x 8.00	76 3.00	254 10.00	343 13.50	146 5.75	1	CP2016G
EXE20208SS61	508 x 508 x 203 20.00 x 20.00 x 8.00	76 3.00	254 10.00	445 17.50	146 5.75	1	CP2020G
EXE24208SS61	610 x 508 x 203 24.00 x 20.00 x 8.00	76 3.00	305 12.00	445 17.50	146 5.75	1	CP2420G
EXE24248SS61	610 x 610 x 203 24.00 x 24.00 x 8.00	76 3.00	127 5.00	546 21.50	146 5.75	2	CP2424G
EXE242412SS61	610 x 610 x 305 24.00 x 24.00 x 12.00	76 3.00	127 5.00	546 21.50	178 7.00	2	CP2424G
EXE30208SS61	762 x 508 x 203 30.00 x 20.00 x 8.00	76 3.00	127 5.00	445 17.50	146 5.75	2	CP3020G
EXE30248SS61	762 x 610 x 203 30.00 x 24.00 x 8.00	76 3.00	127 5.00	546 21.50	146 5.75	2	CP3024G
EXE303012SS61	762 x 762 x 305 30.00 x 30.00 x 12.00	76 3.00	127 5.00	546 21.50	178 7.00	2	CP3030G
EXE36248SS61	914 x 610 x 203 36.00 x 24.00 x 8.00	76 3.00	127 5.00	546 21.50	146 5.75	2	CP3624G



ATEX DIRECTIVE AND CLASSIFICATION SYSTEM

Since 2003, manufacturers across the European Union (EU) have been obliged to comply with strict new EU directives governing safety in explosive atmospheres. Called ATEX (from the French ATmosphères EXplosives), ATEX Directive 94/9/EC has an impact not only on European manufacturers, but also on non-European makers of industrial equipment wishing to sell in Europe.

Two of the most common classification systems for hazardous locations are the NEC Division Classification system and the Zone Classification system used by the European Union (EU) and the International Electrotechnical Commission (IEC).

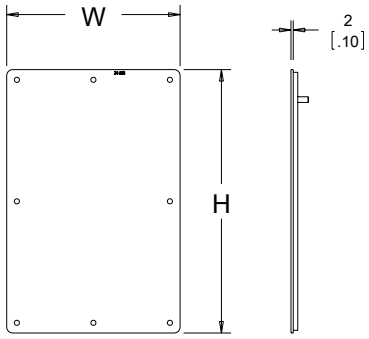
Article 500 of the NEC also classifies hazardous locations according to the properties of the flammable vapors, liquids or gases, or according to the combustible dusts or fibers that may be present and the likelihood that a flammable or combustible concentration or quantity is present. Articles 505 and 506 of the NEC refer to zone classifications. Refer to the Technical Information section of the Specifier's Guide for specific definitions and additional information.

Hoffman's ATEX enclosures are not intended for use in explosion-proof or flame-proof (Ex d) applications.

NEC Divisions and IEC Zones (Not Interchangeable)

Frequency of Hazard Occurrence	NEC Division Classification System	EU and IEC Zone Classification System
Continuous Hazard	Division 1	Zone 0
Intermittent, Periodic Hazards	Division 1	Zone 1
Abnormal Condition Hazard	Division 2	Zone 2

GLAND PLATE



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BULLETIN: HL

Standard Product **Gland Plate**

Catalog Number	Description	Cutout Size mm/in.	W x H mm/in.
GPS126SS6	Gland plate for 12-in. x 6-in. surface with ground	191 x 95 7.50 x 3.75	228 x 133 8.98 x 5.23
GPS128SS6	Gland plate for 12-in. x 8-in. surface with ground	191 x 146 7.50 x 5.75	228 x 184 8.98 x 7.23
GP126SS6	Gland plate for 12-in. x 6-in. surface without ground	241 x 95 9.50 x 3.75	279 x 133 10.98 x 5.23
GP128SS6	Gland plate for 12-in. x 8-in. surface without ground	241 x 146 9.50 x 5.75	279 x 184 10.98 x 7.23
GP166SS6	Gland plate for 16-in. x 6-in. surface without ground	343 x 95 13.50 x 3.75	380 x 133 14.98 x 5.23
GP168SS6	Gland plate for 16-in. x 8-in. surface without ground	343 x 146 13.50 x 5.75	380 x 184 14.98 x 7.23
GP206SS6	Gland plate for 20-in. x 6-in. surface without ground	445 x 95 17.50 x 3.75	482 x 133 18.98 x 5.23
GP208SS6	Gland plate for 20-in. x 8-in. surface without ground	445 x 146 17.50 x 5.75	482 x 184 18.98 x 5.23
GP248SS6	Gland plate for 24-in. x 8-in. surface without ground	546 x 146 21.50 x 5.75	584 x 184 22.98 x 7.23
GP2412SS6	Gland plate for 24-in. x 12-in. surface without ground	546 x 178 21.50 x 7.00	584 x 215 22.98 x 8.48

GP2412SS6 is also used on 30-in. wide, 12-in. deep standard enclosure bottom.

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ZONEX NON-METALLIC TERMINAL ENCLOSURE

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
ATEX
TUV 13 ATEX120808U
Ex e IIC Gb
Ex ta IIIC Da IP66
EN60079-0
EN60079-7
EN60079-31
Service temperature -50C to +100C

IECEx
IECEx TUV 13.0001U
Ex e IIC Gb
Ex ta IIIC Da IP66
IEC 60079-0
IEC 60079-7
IEC 60079-31
Service temperature -50C to +100C

Type 4, 4X, 12; File No. E61997
UL508A Listed
cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12; File No. E61997

NEMA / EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

ZONEX Non-Metallic Terminal Enclosure is ideal for field terminations in hazardous locations. The enclosure meets national and international standards and certifications. It can be used to protect equipment and terminations from corrosive contaminants while meeting rigorous demands. The cabinet is ideal for either panel- or din-mounted components. The enclosures meets ATEX Directives 94/9/EC and IECEx standards for increased safety in housing electrical components in Zone 1 and Zone 2 applications.

FEATURES

- Compression-molded, high-impact strength, fiberglass body and cover
- Cover includes recessed, retained, combination head (Straight blade, Phillips and Torx drive) M4 or M6 stainless steel Type 316 screws
- Retained, continuous, high-temperature silicon gasket within a labyrinth seal between cover and body
- Durable and reusable, internal M4 or M6 stainless steel inserts for DIN- and Panel-mounting
- Covered mounting screw provisions outside of gasketed area, sized M4 (#8) or M6 (¼-in.)
- Mounting location dimensions are molded into the back side of the enclosure
- Panel mounting screws included, M4 or M6

SPECIFICATIONS

- Compression-molded fiberglass with added agents to address static charge build-up
- High-impact strength as well as high temperature-rated
- Increased Safety: Ex e applications
- Optional panels are pre-plated steel, 1.5mm (16 ga.) thick; or 2mm composite

FINISH

- Molded material has a smooth, low-gloss, black finish
- Cover screws are matte stainless steel finish

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
DIN Type Rails, page 1384
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382

NOTES

Intrinsically safe terminal blocks can be installed through modification program to provide a populated enclosure. IECEx populated enclosures require IECEx certified components specifically listed in the approving Certification (see IECEx SIR 09.0100 for more detail).

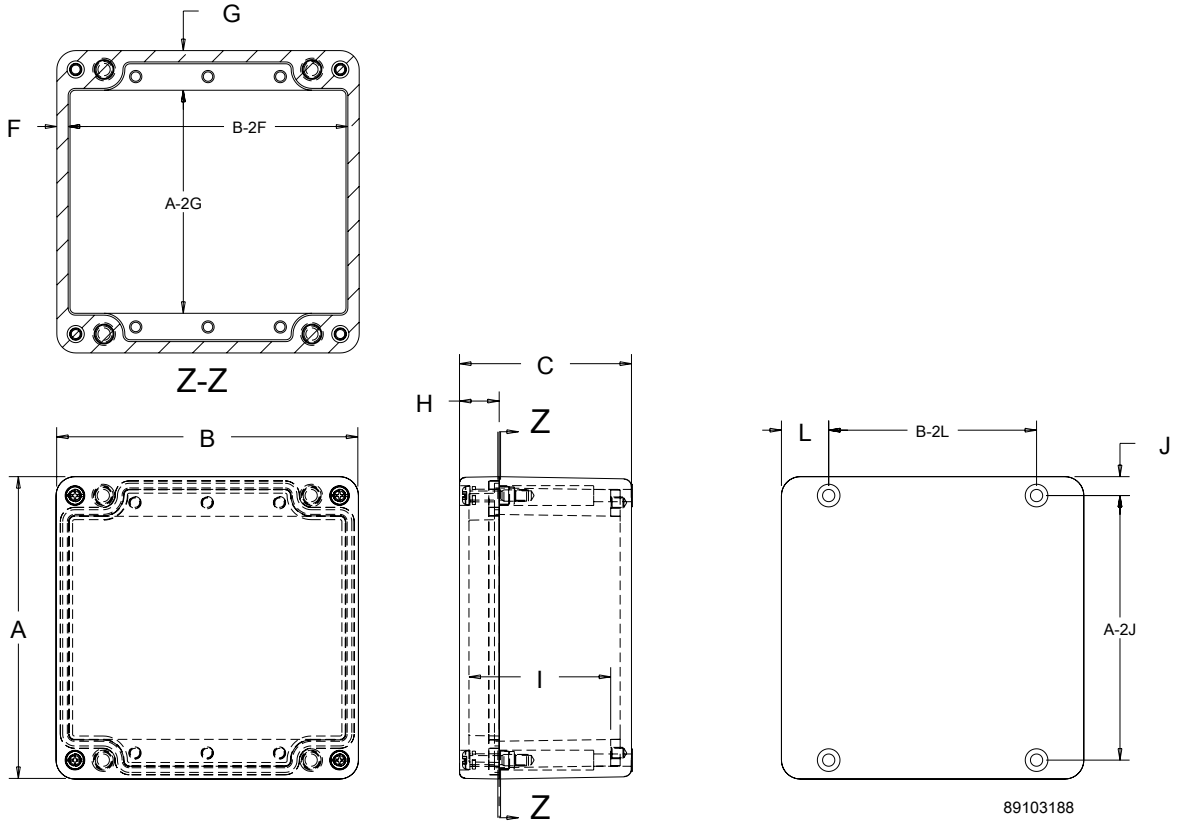
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Hoffman offers a ZONEX-specific modification program. Contact your local Hoffman Representative or Distributor for more information.

BULLETIN: HL3

Standard Product

Catalog Number	AxBxC in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	Mounting Screw Size in./mm	Panel	Panel Material	Panel Size in./mm
EXE807555	3.15 x 2.95 x 2.17 80 x 75 x 55	.17 4	.57 15	.59 15	1.65 42	.23 6	#8 4	A8075P	Composite	2.72 x 2.52 x .08 69 x 64 x 2
EXE1107555	4.33 x 2.95 x 2.17 110 x 75 x 55	.17 4	.57 15	.59 15	1.65 42	.24 6	#8 4	A11075P	Composite	3.90 x 2.52 x .08 99 x 64 x 2
EXE1607555	6.30 x 2.95 x 2.17 160 x 75 x 55	.17 4	.57 15	.59 15	1.65 42	.24 6	#8 4	A16075P	Composite	5.87 x 2.52 x .08 149 x 64 x 2
EXE1907555	7.48 x 2.95 x 2.17 190 x 75 x 55	.17 4	.57 15	.59 15	1.65 42	.23 6	#8 4	A19075P	Composite	7.05 x 2.52 x .08 179 x 64 x 2
EXE807575	3.15 x 2.95 x 2.95 80 x 75 x 75	.16 4	.56 15	.59 15	2.44 62	.23 6	#8 4	A8075P	Composite	2.72 x 2.52 x .08 69 x 64 x 2
EXE1107575	4.33 x 2.95 x 2.95 110 x 75 x 75	.16 4	.56 15	.59 15	2.44 62	.24 6	#8 4	A11075P	Composite	3.90 x 2.52 x .08 99 x 64 x 2
EXE1607575	6.30 x 2.95 x 2.95 160 x 75 x 75	.16 4	.56 15	.59 15	2.44 62	.24 6	#8 4	A16075P	Composite	5.87 x 2.52 x .08 149 x 64 x 2
EXE1907575	7.48 x 2.95 x 2.95 190 x 75 x 75	.16 4	.56 15	.59 15	2.44 62	.24 6	#8 4	A19075P	Composite	7.05 x 2.52 x .08 179 x 64 x 2
EXE12212090	4.80 x 4.72 x 3.54 122 x 120 x 90	.17 4	.75 19	.98 25	2.91 74	.32 8	1/4 6	A122120P	Plated Steel	4.25 x 4.21 x .06 108 x 107 x 1.5
EXE22012090	8.66 x 4.72 x 3.54 220 x 120 x 90	.17 4	.75 19	.98 25	2.95 75	.32 8	1/4 6	A220120P	Plated Steel	8.11 x 4.21 x .06 206 x 107 x 1.5
EXE16016090	6.30 x 6.30 x 3.54 160 x 160 x 90	.23 6	.79 20	.83 21	2.95 75	.39 10	1/4 6	A160160P	Plated Steel	5.63 x 5.70 x .06 143 x 144 x 1.5
EXE26016090	10.24 x 6.30 x 3.54 260 x 160 x 90	.23 6	.79 20	.83 21	2.95 75	.39 10	1/4 6	A260160P	Plated Steel	9.61 x 5.70 x .06 244 x 144 x 1.5
EXE36016090	14.17 x 6.30 x 3.54 360 x 160 x 90	.23 6	.79 20	.83 21	2.95 75	.39 10	1/4 6	A360160P	Plated Steel	13.54 x 5.70 x .06 344 x 144 x 1.5
EXE56016090	22.05 x 6.30 x 3.54 560 x 160 x 90	.21 5	.77 20	.83 21	2.95 75	.39 10	1/4 6	A560160P	Plated Steel	21.38 x 5.70 x .06 543 x 144 x 1.5
EXE255250120	10.04 x 9.84 x 4.72 255 x 250 x 120	.22 6	.79 20	.98 25	4.09 104	.39 10	1/4 6	A255250P	Plated Steel	9.45 x 9.17 x .06 240 x 233 x 1.5
EXE400250120	15.75 x 9.84 x 4.72 400 x 250 x 120	.22 6	.79 20	.98 25	4.09 104	.39 10	1/4 6	A400250P	Plated Steel	15.12 x 9.17 x .06 384 x 233 x 1.5
EXE400405120	15.75 x 15.94 x 4.72 400 x 405 x 120	.23 6	.79 20	.98 25	4.09 104	.39 10	1/4 6	A400405P	Plated Steel	15.16 x 15.35 x .06 385 x 390 x 1.5
EXE400405165	15.75 x 15.94 x 6.50 400 x 405 x 165	.20 5	.76 19	.98 25	5.87 149	.39 10	1/4 6	A400405P	Plated Steel	15.16 x 15.35 x .06 385 x 390 x 1.5



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EJB SERIES JUNCTION BOXES

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
EN 60079-0
EN 60079-1
EN 60079-31
EN 60079-11
EN 60079-26
EN60529
EN 60439-1

Certifications
II 2(1) GD Ex d [ia] IIB Ex tD A21 T5/T6 IP 65/66/67
II 2GD Ex d IIB+H2 T6,T5, T4 Gb Ex tb IIIC T85°C, T100°C, T135°C Db IP66/67
II 2(1) GD Ex d [ia Ga] IIB+H2 T6, T5 Gb Ex tb [ia Da] IIIC T85°C, T100°C Db IP66/67

CESI 00 ATEX 036U (Component)
CESI 01 ATEX 026 (terminal box)
CESI 01 ATEX 027 (Control, command and signaling units)
CESI 02 ATEX 073 (Interface units)
CESI 03 ATEX 015 (Unit with dischargers)
IECEx TSA 06.0011 - GOST R – BRAZILIAN

GOST-R, INMETRO, Australia certifications available

Ambient Temperature: -50 C to +60C

APPLICATION

EJB series junction boxes are enclosures applicable for Zone 1, 2, 21 or 22 with ATEX and IECEx certifications. They can be used as junction boxes with or without terminals or for installation of electrical equipment such as circuit breakers, signals, disconnectors, remote control switches or transformers.

Body and cover can be drilled and threaded according to customers' specification. In accordance with rules, Hoffman must perform the drilling.

FEATURES

- Low copper aluminum alloy enclosure with stainless steel bolts and screws for corrosion resistance
- Cast hinges for robust construction (except for EJB-55)
- High temperature-resistant silicone gasket provides IP66 / 67 rating
- Stainless steel bolts and screws
- Electrogalvanized steel mounting bracket
- Epoxy coating RAL 7035 (Light grey) coating
- Aluminum alloy passes the tests required by standards EN 60068-2-30 (hot/humid cycles) and EN 60068-2-11 (salt mist tests)
- Internal mounting panel
- Body and cover can be drilled and threaded according to customers' specifications

ACCESSORIES

Hazardous Location Breather Drains, page 1280
Hazardous Location Window Kits, page 1277

OPTIONS

Internal anti-condensation coating RAL 2004 (pure orange)
External epoxy coating in different color (specify the RAL number)

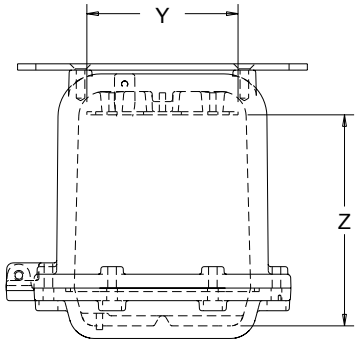
MODIFICATION AND CUSTOMIZATION

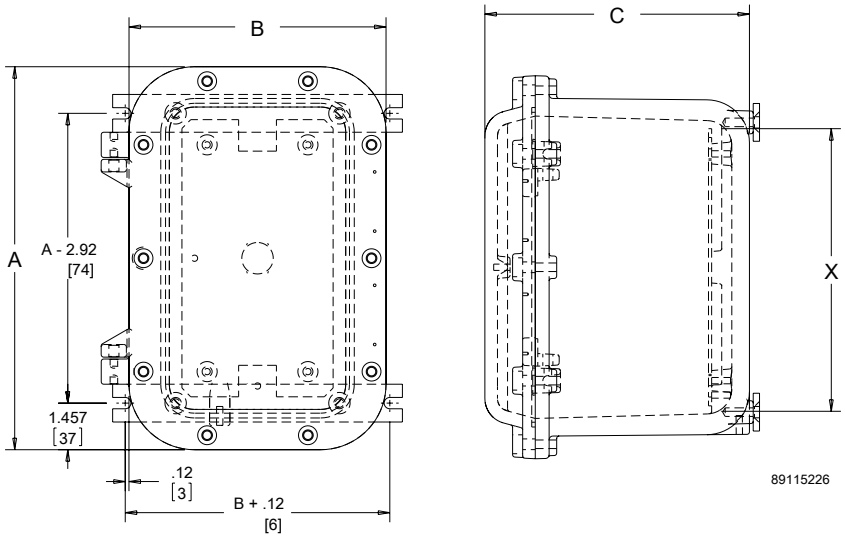
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HL5AA

Standard Product

Catalog Number	AxBxC in./mm	X in./mm	Y in./mm	Z in./mm	Material	Weight (lb.)	Weight (kg)
EJB1	11.97 x 8.03 x 8.58 304 x 204 x 218	8.66 220	4.72 120	6.59 167	Aluminum	22.70	10.30
EJB3A	14.33 x 11.18 x 10.94 364 x 284 x 278	11.02 280	7.87 200	8.41 214	Aluminum	45.40	17.60
EJB4A	17.01 x 13.07 x 11.77 432 x 332 x 299	13.39 340	9.45 240	9.19 233	Aluminum	58.63	26.60
EJB45A	22.32 x 15.24 x 11.73 567 x 387 x 298	18.11 460	11.02 280	9.00 229	Aluminum	88.38	40.10
EJB5A	24.88 x 17.01 x 10.67 632 x 432 x 271	21.26 540	13.39 340	10.85 276	Aluminum	115.05	52.20
EJB6	34.25 x 22.05 x 18.90 870 x 560 x 480	28.35 720	19.69 500	14.67 373	Aluminum	351.76	159.60
EJB3BA	14.33 x 11.18 x 8.58 364 x 284 x 218	11.02 280	7.87 200	6.04 153	Aluminum	38.79	17.60
EJB4BA	17.01 x 13.07 x 9.02 432 x 332 x 229	13.55 344	9.45 240	6.44 164	Aluminum	49.81	22.60
EJB45BA	22.32 x 15.24 x 9.96 567 x 387 x 253	18.11 460	11.02 280	7.03 479	Aluminum	80.45	36.50
EJB5BA	24.88 x 17.01 x 9.02 632 x 432 x 229	21.26 540	13.39 340	7.97 202	Aluminum	98.30	44.60
EJB6B	34.25 x 25.59 x 14.96 870 x 650 x 380	28.35 720	19.69 500	10.73 272	Aluminum	307.90	139.70





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EJBX SERIES JUNCTION BOXES

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
EN 60079-0
EN 60079-1
EN 60079-11
EN 60079-26
EN 61241-0
EN 61241-1
EN 61241-11

Certifications
II 2(1) GD Ex d [ia] IIB Ex tD A21 T5/T6 IP 65/66/67
I M2 - Ex d I Mb
II 2GD Ex d IIB+H2 T6,T5, T4 Gb Ex tb IIIC T85°C, T100°C, T135°C Db IP66/67
II 2(1)GD Ex d [ia Ga] IIB+H2 T6, T5 Gb Ex tb [ia Da] IIIC T85°C, T100°C Db IP66/67

CESI 00 ATEX 036U (Component)
CESI 01 ATEX 026 (Terminal box)
CESI 01 ATEX 027 (Control, command and signaling units)
CESI 02 ATEX 073 (Interface units)
CESI 03 ATEX 015 (Unit with dischargers)
IECEx TSA 06.0011 - GOST R - BRAZILIAN

GOST-R, INMETRO, Australia certifications available

APPLICATION

EJBX series junction boxes are enclosures applicable for Zone 1, 2, 21 or 22 with ATEX and IECEx certifications. They are suitable for chemically corrosive and extreme environments. They can be used as junction boxes with or without terminals or for installation of electrical equipment such as circuit breakers, signals, disconnectors, remote control switches or transformers.

Body and cover can be drilled and threaded according to customers' specification. In accordance with rules, Hoffman must perform the drilling.

FEATURES

- AISI 316L stainless steel enclosure with stainless steel bolts and screws for superior corrosion resistance
- High temperature-resistant silicone gasket provides IP66 / 67 rating
- Welded mounting brackets for easy installation
- Internal mounting panel
- Body and cover can be drilled and threaded according to customers' specifications
- Internal and external earth screws

ACCESSORIES

Hazardous Location Breather Drains, page 1280
Hazardous Location Window Kits, page 1277

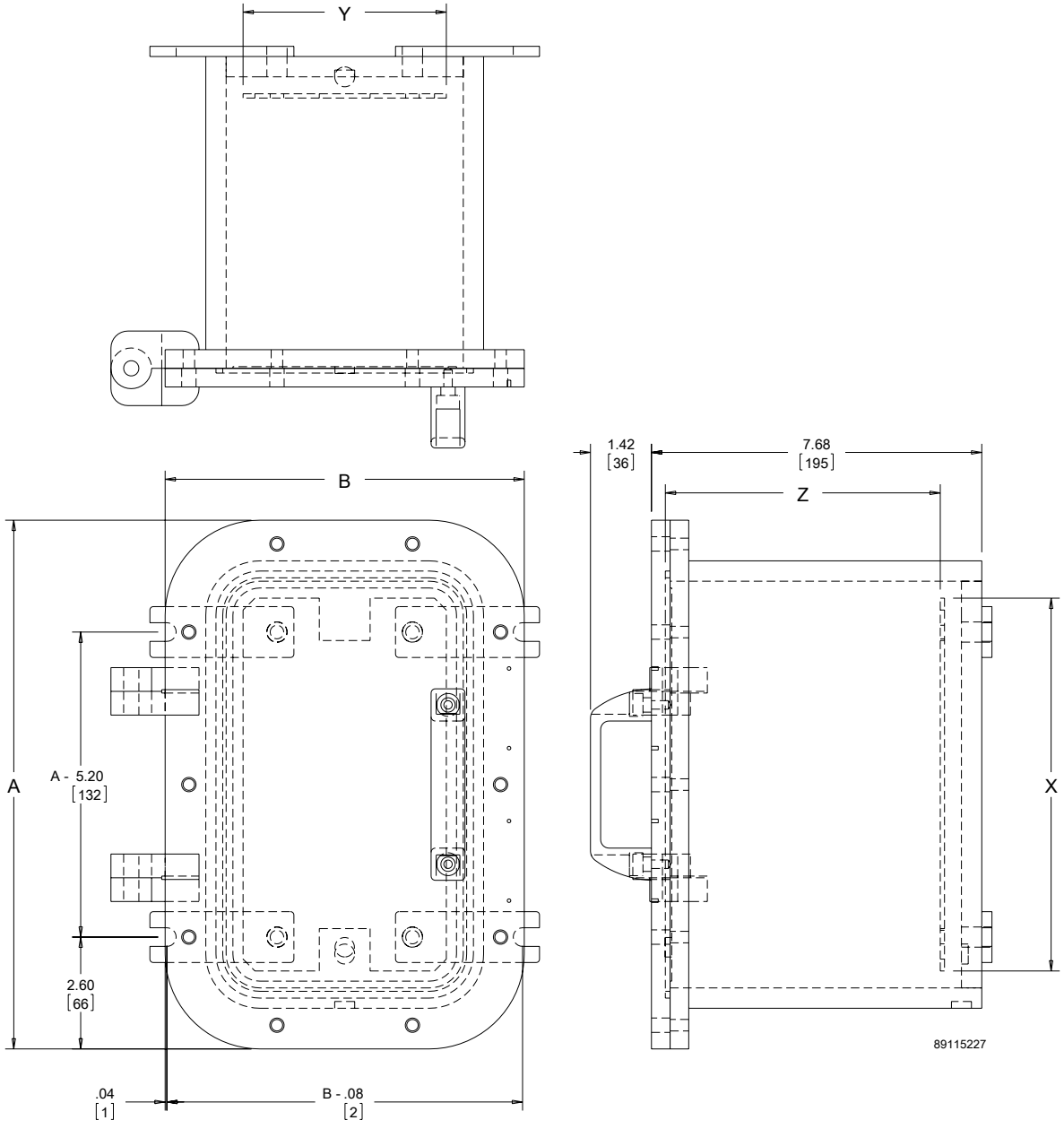
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HL5AS

Standard Product

Catalog Number	AxBxC in./mm	X in./mm	Y in./mm	Z in./mm	Material	Weight (lb.)	Weight (kg)
EJBX1	12.28 x 8.35 x 7.91 312 x 212 x 201	8.66 220	4.72 120	6.39 162	316L Stainless Steel	75.38	34.20
EJBX3B	14.65 x 11.50 x 7.91 372 x 292 x 201	11.02 280	7.87 200	6.39 162	316L Stainless Steel	112.84	51.20
EJBX4	17.01 x 13.07 x 11.18 432 x 332 x 284	13.39 340	9.45 240	9.42 239	316L Stainless Steel	163.54	74.20
EJBX45B	22.13 x 15.04 x 9.21 562 x 382 x 234	18.11 460	11.02 280	7.45 189	316L Stainless Steel	212.02	96.20
EJBX5B	24.88 x 17.01 x 10.00 632 x 432 x 254	21.26 540	13.39 340	8.24 209	316L Stainless Steel	260.51	118.20



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GUB SERIES JUNCTION BOXES

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
EN 60079-0
EN 60079-1
EN 60079-31
EN 60439-1
EN 60079-11
EN 60079-26
EN 60529

Certifications
II 2 GD Ex d IIC Gb Ex tb IIIC Db IP66
II 2 GD Ex d IIC T6, T5 Gb Ex tb IIIC T85°C, T100°C Db IP66
II (1) GD Ex d [ia Ga] IIC T6, T5 Gb Ex tb [ia Da] IIIC T85°C, T100°C Db IP66

CESI 01 ATEX 034U (Component)
CESI 01 ATEX 035 (Terminal box)
CESI 01 ATEX 036 (Control, command and signalling units)
CESI 03 ATEX 174 (Interface units)
IECEx TSA 06.0012 - GOST R – BRAZILIAN

GOST-R, INMETRO, Austrailia certifications available

APPLICATION

GUB series junction boxes are enclosures applicable for Zone 1, 2, 21 or 22 with ATEX and IECEx certifications. They have a screw cover and are used as junction boxes with or without terminals or for installation of electrical equipment such as fuses, relays, disconnectors, transformers, or remote control switches.

Body can be drilled and threaded according to customers' specifications. In accordance with rules, Hoffman must perform the drilling.

FEATURES

- Low copper aluminum alloy for corrosion resistance
- Neoprene gasket provides IP66 rating
- Mounting lugs for easy installation
- Epoxy coating RAL 7035 (Light grey) coating
- Internal mounting panel

ACCESSORIES

Hazardous Location Breather Drains, page 1280

OPTIONS

Internal anti-condensation coating RAL 2004 (pure orange)
External epoxy coating in different color (specify the RAL number)

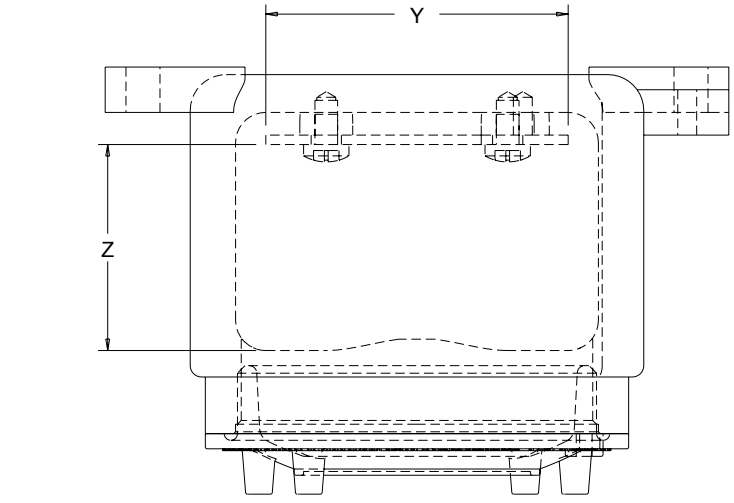
MODIFICATION AND CUSTOMIZATION

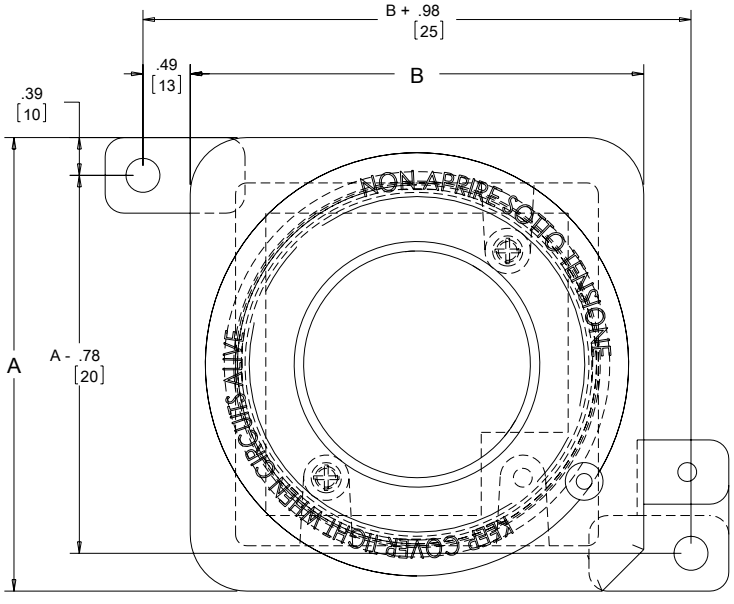
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

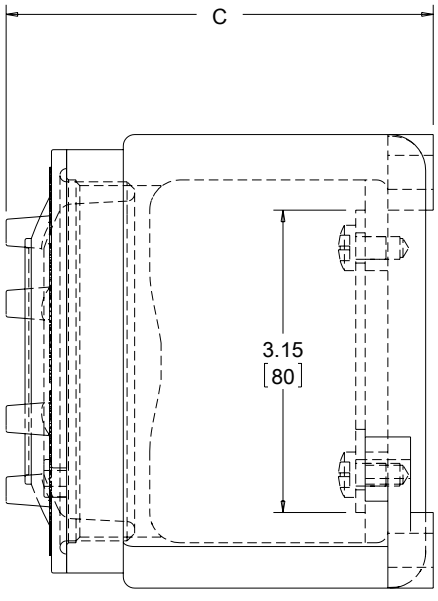
BULLETIN: HL5AA

Standard Product

Catalog Number	AxBxC in./mm	X in./mm	Y in./mm	Z in./mm	Material	Weight (lb.)	Weight (kg)
GUB	4.72 x 4.72 x 4.57 120 x 120 x 116	3.15 80	3.15 80	2.15 55	Aluminum	6.85	3.11
GUB01	6.85 x 6.85 x 5.51 174 x 174 x 140	4.45 113	4.45 113	2.85 72	Aluminum	11.24	5.10
GUB02	9.06 x 9.06 x 6.50 230 x 230 x 165	5.91 150	5.91 150	3.17 81	Aluminum	17.70	8.03







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ZONEX SA SERIES JUNCTION BOXES

INDUSTRY STANDARDS

ATEX Directive 94/9/EC
EN 60079-0
EN 60079-1
EN 60079-7
EN 60079-11
EN 60079-31

Certifications
II 2 GD Ex e II T5/T6 Ex tD A21 IP 66
II 2(1) GD Ex e(ia) IIC T5/T6 Ex tD A21 IP 66
II 1 GD Ex ia IIC T5/T6 Ex tD A21 IP 66
II 2 GD Ex de IIC T5/T6 Gb Ex tb IIIC T100°C÷T85°C Db IP66

CESI 03 ATEX 333 (Terminal box)
CESI 03 ATEX 115 (Control, command and signaling units)
IECEx TSA 13.0001 - GOST R

APPLICATION

Zonex SA series junction boxes are suitable for increased safety or intrinsically safe enclosures applicable for Zone 1, 2, 21 or 22 with ATEX and IECEx certifications. They can be supplied with multipolar terminal blocks or modular terminal blocks. They can also be equipped with pilot lights, push buttons and measuring instruments.

Body and cover can be drilled and threaded according to customers' specifications. In accordance with rules, Hoffman must perform the drilling.

FEATURES

- Low copper aluminum alloy enclosure with stainless steel bolts and screws for corrosion resistance
- Screw cover configuration for easy access
- High temperature-resistant silicone gasket provides IP66 rating
- Fixed mounting holes for easy installation
- Epoxy coating RAL 7035
- Internal mounting panel
- Body and cover can be drilled according to customers' specifications

ACCESSORIES

Hazardous Location Breather Drains, page 1280

OPTIONS

Internal anti-condensation coating RAL 2004 (pure orange)
External epoxy coating in different color (specify the RAL number)

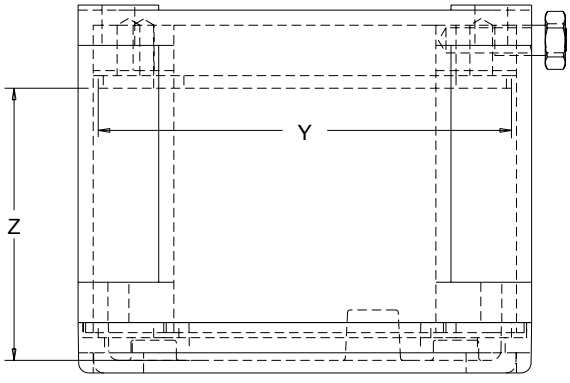
MODIFICATION AND CUSTOMIZATION

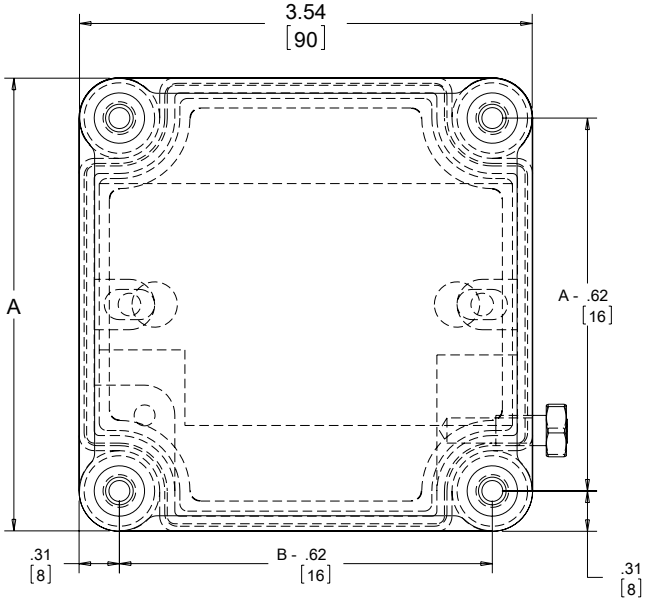
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

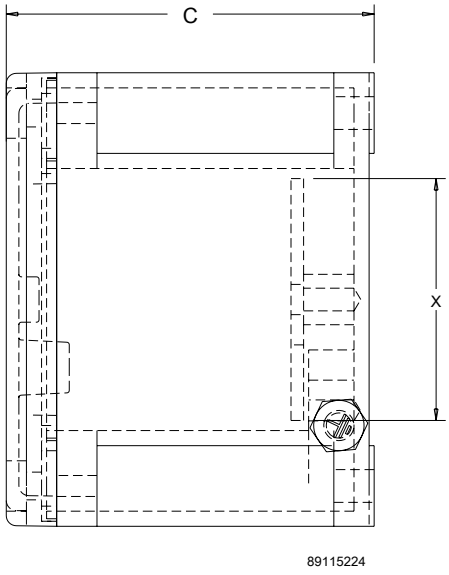
BULLETIN: HL4

Standard Product

Catalog Number	AxBxC in./mm	X in./mm	Y in./mm	Z in./mm	Material	Weight (lb.)	Weight (kg)
SA090907	3.54 x 3.54 x 2.95 90 x 90 x 75	3.25 82	1.89 48	2.13 54	Aluminum	3.53	1.60
SA111108	4.33 x 4.33 x 3.35 110 x 110 x 85	3.94 100	2.68 68	2.52 64	Aluminum	3.75	1.70
SA141410	5.79 x 5.79 x 3.94 147 x 147 x 100	5.39 137	4.13 105	3.15 80	Aluminum	4.41	2.00
SA171108	6.69 x 4.33 x 3.35 170 x 110 x 85	6.26 159	2.64 67	2.52 64	Aluminum	4.41	2.00
SA202012	7.87 x 7.87 x 4.72 200 x 200 x 120	7.32 186	5.75 146	3.88 99	Aluminum	6.39	2.90
SA301410	12.01 x 5.79 x 4.33 305 x 147 x 110	11.22 285	3.82 97	3.52 89	Aluminum	7.05	3.20
SA302310	12.01 x 9.06 x 4.33 305 x 230 x 110	11.22 285	7.09 180	3.52 89	Aluminum	8.82	4.00
SA302318	12.01 x 9.06 x 7.48 305 x 230 x 190	11.22 285	7.09 180	6.67 169	Aluminum	10.36	4.70
SA473018	18.50 x 12.01 x 7.68 470 x 305 x 195	17.83 453	10.00 254	6.83 173	Aluminum	16.97	7.70







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NEMA TYPE 9

INDUSTRY STANDARDS

UL Class II Division 1 and 2 Group E, F and G locations
UL File No. E67456

NEMA/EEMAC Type 9
CSA certified for Class II Division 1 and 2 Group E, F and G locations
IEC 60529, IP60
CSA File No. 42186

APPLICATION

For use in Class II Division 1 and 2 locations as defined in Article 500 of the National Electrical Code as having the presence of combustible dusts.

SPECIFICATIONS

- 0.19-in. (5-mm), .25-in. (6-mm) and .38-in. (10-mm) steel plate
- Ends are .38-in. (10-mm) steel plate to provide a minimum of 3.50 full threads for conduit sizes through 2.00 in. (51 mm). (Class II enclosures must have minimum of 3.50 full threads at all conduit entrances. NEMA requires conduit entrances to be in top and/or bottom of enclosure. Tapped holes for conduit should have tapered pipe threads.)
- Covers are .25-in. (6-mm) thick to allow mounting of NEMA 9 pushbuttons and pilot lights, which require threaded holes (3/4-14 NPSM thread)
- Heavy duty cover hinges on enclosures when "A" is 20.00 in. (508 mm) or more
- Fiber gasket, mechanically attached to cover, assures dust-tight enclosure
- Weldnuts or collar studs provided for mounting optional panel

FINISH

ANSI 61 gray polyester powder finish inside and out over pretreated surfaces.

ACCESSORIES

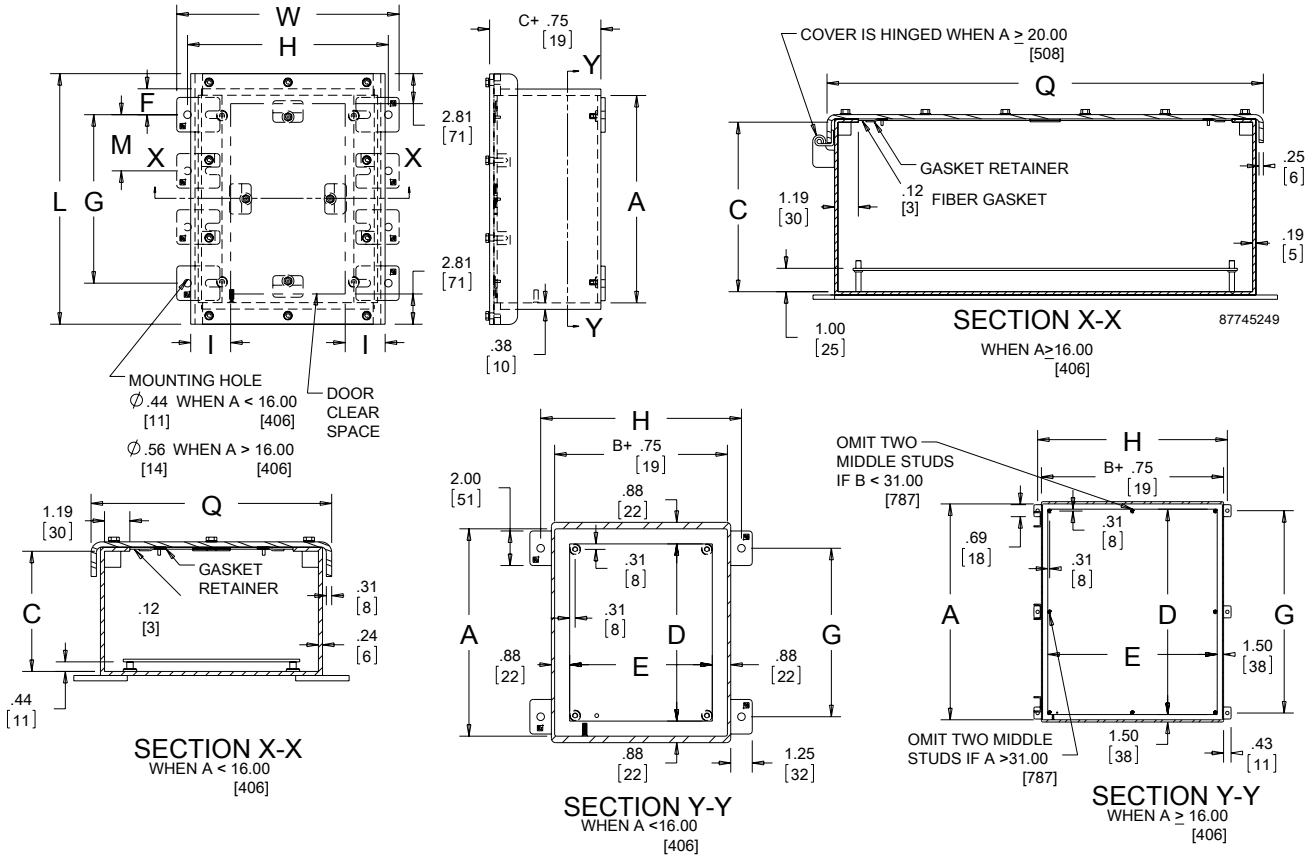
Panels for Type 1 Enclosures and Small Type 3R Enclosures, page 1333
Panels for Type 3R, 4, 4X, 12 and 13 Enclosures, page 1334
Terminal Block Kit Assembly for Junction Boxes, page 1380
Terminal Block Kit Assembly for Type 4, 12 and 13 Enclosures, page 1382
Hazardous Location LED Lights, Strip, page 1278
Hazardous Location LED Light, CAN, page 1279

BULLETIN: A9

Standard Product

Catalog Number	AxBxC in./mm	Panel	Panel Size D x E in./mm	Mounting G x H in./mm	Number of Mounting Holes	Overall L x W in./mm	I in./mm	F in./mm	M in./mm	Q in./mm
A8D64	8.00 x 6.00 x 4.00 203 x 152 x 102	A8N6P	6.25 x 4.24 159 x 108	5.75 x 7.62 146 x 194	4	10.50 x 8.88 267 x 226	2.69 68	1.50 38	— —	7.25 184
A10D84	10.00 x 8.00 x 4.00 254 x 203 x 102	A10N8P	8.25 x 6.25 210 x 159	7.75 x 9.62 197 x 244	4	12.50 x 10.88 318 x 276	2.69 68	1.50 38	— —	9.25 235
A12D106	12.00 x 10.00 x 6.00 305 x 254 x 152	A12N10P	10.25 x 8.25 260 x 210	9.75 x 11.62 248 x 295	4	14.50 x 12.88 368 x 327	3.50 89	1.50 38	— —	11.25 286
A12D128	12.00 x 12.00 x 8.00 305 x 305 x 203	A12N12P	10.25 x 10.25 260 x 260	9.75 x 13.62 248 x 346	4	14.50 x 14.88 368 x 378	3.50 89	1.50 38	— —	13.25 337
A16D128	16.00 x 12.00 x 8.00 406 x 305 x 203	A16P12	13.00 x 9.00 330 x 229	13.75 x 13.62 349 x 346	4	18.50 x 14.88 470 x 378	3.50 89	1.50 38	— —	13.25 337
A16D168	16.00 x 16.00 x 8.00 406 x 406 x 203	A16P16	13.00 x 13.00 330 x 330	13.75 x 17.62 349 x 448	4	18.50 x 18.88 470 x 480	3.50 89	1.50 38	— —	17.25 438
A20D168	20.00 x 16.00 x 8.00 508 x 406 x 203	A20P16	17.00 x 13.00 432 x 330	14.75 x 17.62 375 x 448	4	22.50 x 18.88 572 x 480	3.50 89	3.00 76	— —	17.25 438
A20D208	20.00 x 20.00 x 8.00 508 x 508 x 203	A20P20	17.00 x 17.00 432 x 432	14.75 x 21.62 375 x 549	4	22.50 x 22.88 572 x 581	3.50 89	3.00 76	— —	21.25 540
A24D208	24.00 x 20.00 x 8.00 610 x 508 x 203	A24P20	21.00 x 17.00 533 x 432	18.75 x 21.62 476 x 549	4	26.50 x 22.88 673 x 581	3.50 89	3.00 76	— —	21.25 540
A24D2410	24.00 x 24.00 x 10.00 610 x 610 x 254	A24P24	21.00 x 21.00 533 x 533	18.75 x 25.62 476 x 651	4	26.50 x 26.88 673 x 683	3.50 89	3.00 76	— —	25.25 641
A30D2410	30.00 x 24.00 x 10.00 762 x 610 x 254	A30P24	27.00 x 21.00 686 x 533	24.75 x 25.62 629 x 651	6	32.50 x 26.88 826 x 683	3.50 89	3.00 76	12.38 314	25.25 641
A36D2410	36.00 x 24.00 x 10.00 914 x 610 x 254	A36P24	33.00 x 21.00 838 x 533	30.75 x 25.62 781 x 651	6	38.50 x 26.88 978 x 683	3.50 89	3.00 76	15.38 391	25.25 641
A36D3012	36.00 x 30.00 x 12.00 914 x 762 x 305	A36P30	33.00 x 27.00 838 x 686	30.75 x 31.62 781 x 803	6	38.50 x 32.88 978 x 835	3.50 89	3.00 76	15.38 391	31.25 794
A48D3612	48.00 x 36.00 x 12.00 1219 x 914 x 305	A48P36	45.00 x 33.00 1143 x 838	42.75 x 37.62 1086 x 956	8	50.50 x 38.88 1283 x 988	3.50 89	3.00 76	14.25 362	37.25 946

Purchase panels separately.



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SX7 SERIES JUNCTION BOXES

INDUSTRY STANDARDS

UL1203
NEC 500 – 503
UL 886
NEMA 7, 9, 4X, 3

Certifications
Class I, Division 1 Group C, D
Class II Group E, F, G
Class III
Type 7, 9, 4X, 3

APPLICATION

SX7 series junction boxes are enclosures applicable for hazardous locations. They can be used as junction, pull and splice boxes as well as for installation of enclosure electrical devices and instruments. Applications can include components such as motor starters, circuit breakers, control stations, terminal blocks, pilot lights, switch racks and panelboards.

FEATURES

- Low copper aluminum alloy enclosure with stainless steel bolts and screws for corrosion resistance
- Gasket o-ring provides Type 4X rating
- Internal mounting panel
- Grey electrostatic polyester paint
- External earth screw
- NPT threads for rigid conduit (optional/custom)
- Body and cover can be drilled and threaded according to customers' specification

ACCESSORIES

IR Windows, page 1350
Hazardous Location Breather Drains, page 1280
Epoxy Patch Kit, page 1379

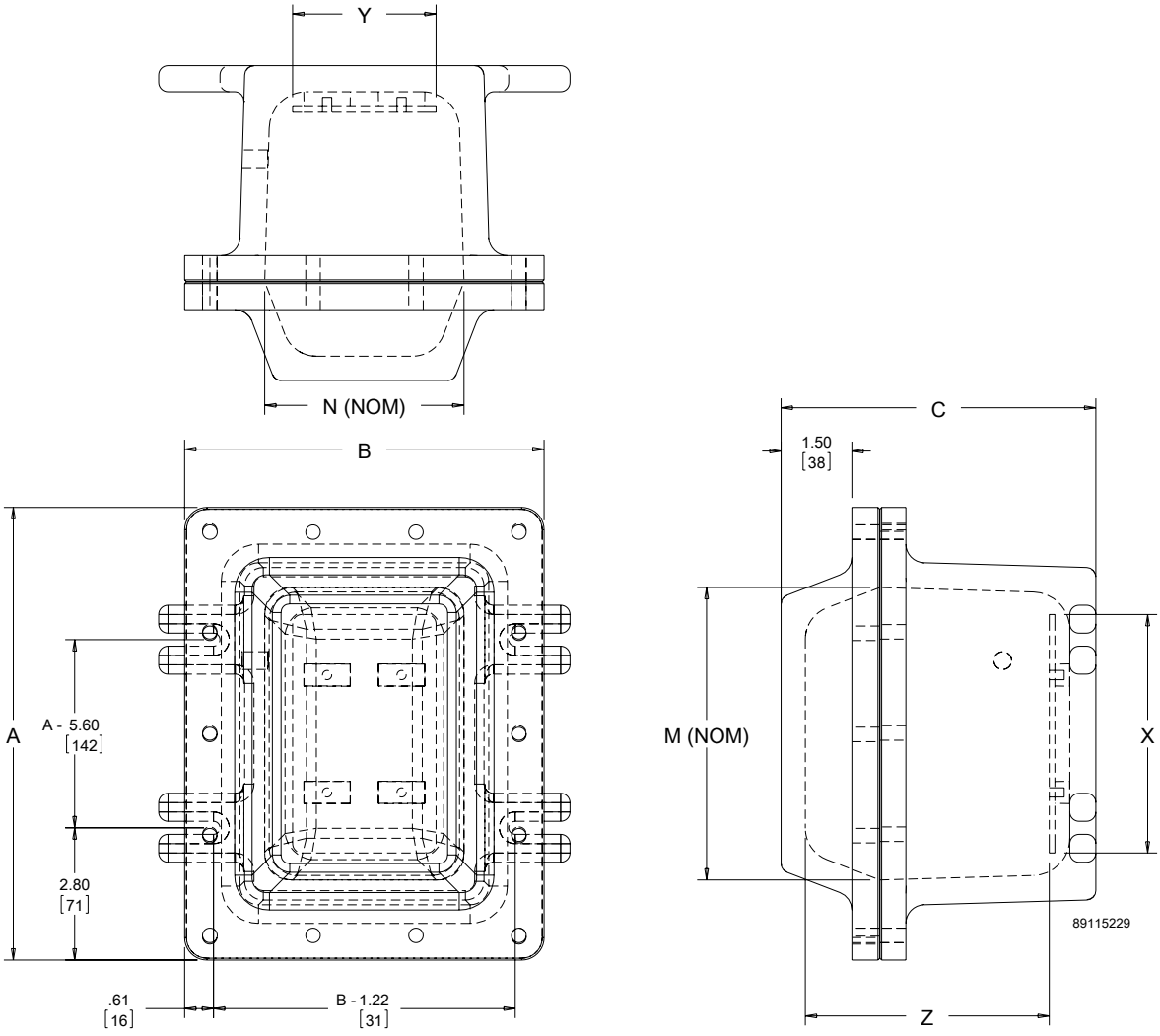
MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HL5U

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	M (in.)	M (mm)	N (in.)	N (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)	Z (in.)	Z (mm)	Cover Style	Weight (lb.)	Weight (kg)
SX7E644	9.57 x 7.60 x 6.65	243 x 193 x 169	6.00	152	4.00	102	5.04	128	3.03	77	5.16	131	Screw	16.09	7.30
SX7E664	9.57 x 9.57 x 6.97	243 x 243 x 177	6.00	152	6.00	152	5.04	128	5.04	128	5.16	131	Screw	21.60	9.80
SX7E666	10.51 x 10.51 x 9.10	267 x 267 x 231	6.00	152	6.00	152	5.51	140	5.51	140	7.45	489	Screw	22.48	10.20
SX7E864	11.89 x 9.76 x 6.17	302 x 248 x 157	8.00	203	6.00	152	6.77	172	4.80	122	4.87	124	Screw	26.89	12.20
SX7E866	11.42 x 9.37 x 8.53	290 x 238 x 217	8.00	203	6.00	152	7.00	178	4.96	126	6.75	171	Screw	27.55	12.50
SX7E883	12.09 x 12.09 x 6.18	307 x 307 x 157	8.00	203	8.00	203	7.48	190	7.48	190	4.49	114	Screw	23.36	10.60
SX7E884	11.50 x 11.50 x 6.50	292 x 292 x 165	8.00	203	8.00	203	6.65	169	6.65	169	5.00	127	Screw	26.89	12.20
SX7EA66	14.02 x 10.04 x 8.72	356 x 255 x 221	11.00	284	7.25	183	8.74	222	4.76	121	7.22	183	Hinge	32.40	14.70
SX7EAA6	14.06 x 13.98 x 9.09	357 x 355 x 231	10.50	267	10.25	262	9.37	238	9.37	238	6.69	170	Hinge	47.83	21.70
SX7EC56	14.02 x 10.04 x 9.49	356 x 255 x 241	11.00	284	7.00	183	10.83	275	4.33	110	7.52	191	Hinge	40.11	18.20
SX7EFC6	18.67 x 15.87 x 9.49	474 x 403 x 241	15.00	381	12.00	305	13.15	334	10.32	262	7.80	198	Hinge	99.62	45.20
SX7EGC6	19.80 x 15.75 x 9.37	503 x 400 x 238	16.00	406	12.00	305	14.33	364	10.32	262	7.56	192	Hinge	99.18	45.00
SX7EGC8	19.88 x 15.83 x 10.35	505 x 402 x 263	16.00	406	12.00	305	14.33	359	10.08	256	8.54	217	Hinge	101.82	46.20
SX7EGE9	19.84 x 18.34 x 12.13	504 x 466 x 308	16.00	406	14.00	356	13.78	350	12.28	312	10.08	256	Hinge	131.80	59.80
SX7EGF6	19.80 x 18.70 x 9.06	503 x 475 x 230	16.00	406	15.00	381	14.41	366	13.31	338	7.24	184	Hinge	101.38	46.00
SX7EGG6	19.68 x 19.68 x 8.60	500 x 500 x 219	16.00	406	16.00	406	14.25	362	14.25	362	6.79	173	Hinge	105.79	48.00
SX7EIC8	22.44 x 16.50 x 10.98	570 x 419 x 279	18.00	457	12.00	305	16.46	418	8.98	228	8.29	211	Hinge	124.31	56.40
SX7EIIC	22.44 x 22.28 x 15.35	570 x 566 x 390	18.00	457	18.00	457	15.63	397	13.66	347	12.35	314	Hinge	207.40	94.10
SX7EKK8	24.09 x 24.09 x 11.14	612 x 612 x 283	20.00	508	20.00	508	18.11	460	16.14	410	8.13	207	Hinge	208.06	94.40
SX7EOCC	27.80 x 15.98 x 15.83	706 x 406 x 402	24.00	610	12.00	305	21.10	536	7.40	188	12.43	316	Hinge	192.63	87.40
SX7EOF6	28.03 x 19.21 x 9.53	712 x 488 x 242	24.00	610	15.00	381	22.36	568	11.65	296	6.17	157	Hinge	175.44	79.60
SX7ESG8	32.13 x 20.08 x 11.54	816 x 510 x 293	28.00	711	16.00	406	26.06	662	12.52	318	8.53	217	Hinge	217.53	98.70
SX7ESGD	32.44 x 20.39 x 17.64	824 x 518 x 448	28.00	711	16.00	406	25.00	635	11.50	292	15.02	382	Hinge	279.91	127.00
SX7EXCD	38.70 x 18.62 x 18.66	983 x 473 x 474	33.00	838	12.00	305	31.50	800	8.66	220	14.87	378	Hinge	335.45	152.20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SX9 SERIES SCREW COVER JUNCTION BOXES

INDUSTRY STANDARDS

UL 1203 listed; File No. E468486
cUL File No. E468486
Class I, Group C, D
Class II, Group E, F, G

NEMA Type 3, 4X, 7, 9
NEC Art 500-503

APPLICATION

SX9 Series Junction Boxes are UL certified. They have a screw cover and are used either as junction boxes with/without terminals or for installation of electrical equipment such as fuses, relays, disconnectors, remote control switches, transformers, ballast, etc. Body and cover can be drilled and threaded according to customers' specification.

SPECIFICATIONS

- Body and cover constructed of low copper content aluminum alloy
- Internal/external stainless steel earth screws
- Mounting panel and mounting screws included
- Gasket between body and cover

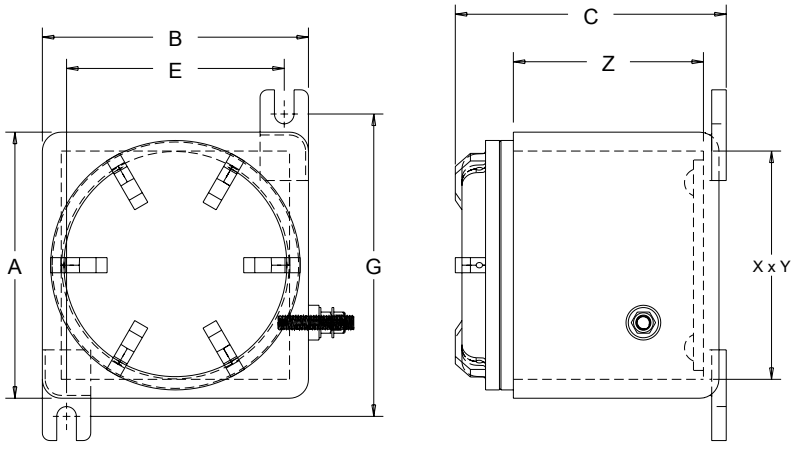
FINISH

RAL 7031 electrostatic polyester paint

BULLETIN: HL5U

Standard Product

Catalog Number	AxBxC in./mm	E in./mm	G in./mm	X in./mm	Y in./mm	Z in./mm	Panel Dimensions in./mm	Weight (lb.)	Weight (kg)
SX9GUB1A	6.93 x 6.93 x 7.09 176 x 176 x 180	5.67 144	7.87 200	6.30 160	6.30 160	3.94 100	5.12 x 5.12 130 x 130	14.55	7
SX9GUB2A	9.68 x 8.74 x 7.87 246 x 222 x 200	10.00 254	8.23 209	8.11 206	8.11 206	4.13 105	7.09 x 5.91 180 x 150	21.16	10
SX9GUB3A	11.81 x 10.63 x 9.45 300 x 270 x 240	11.54 293	10.67 271	10.75 273	9.57 243	4.53 115	9.25 x 8.66 235 x 220	39.01	18



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HAZARDOUS LOCATION WINDOW KITS

INDUSTRY STANDARDS

IECEx and ATEX Approvals
Suitable for use on increased safety enclosures for ZONE 1 or ZONE 2 assemblies
ATEX Directive 94/9/EC
ATEX
Sira 13ATEX3315U
Ex e IIC Gb
Ex tb IIIC Db IP 66
IECEx
IECEx SIR 13.0123U
Ex e IIC Gb
Ex tb IIIC Db IP 66

UL 508A Component Recognized; Type 4, 4X,12, 3R; File No. E61997

cUR Component Recognized per CSA C22.2 No. 94; Type 4, 4X, 12, 3R; File No. E61997
NEMA/EEMAC 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

Hazardous Location Window Kits are designed to be used on Increased Safety (Ex e) enclosures in ATEX or IECEx Zone 1 or 2 hazardous areas. These window kits are made with a robust heavy-gauge Type 316 stainless steel frame and a silicone gasket to ensure a dust-, oil-, and water-tight seal. Designed for use as viewing windows, these window kits are ideal for visibility of internal enclosure components. The windows are easily installed by making a cutout in the enclosure and attaching the window and frame with included mounting hardware.

FEATURES

- Robust window frames are made from heavy-gauge Type 316 stainless steel with a brushed finish
- Secure sealing with silicon gasket to protect against water and dust ingress in extreme-temperature applications ranging from -55 C (-67 F) to 180 C (356 F)
- Maintain visual on components through .25-in. (6-mm) tempered safety glass
- Easy installation in enclosure cutouts with window frame hardware

MODIFICATION AND CUSTOMIZATION

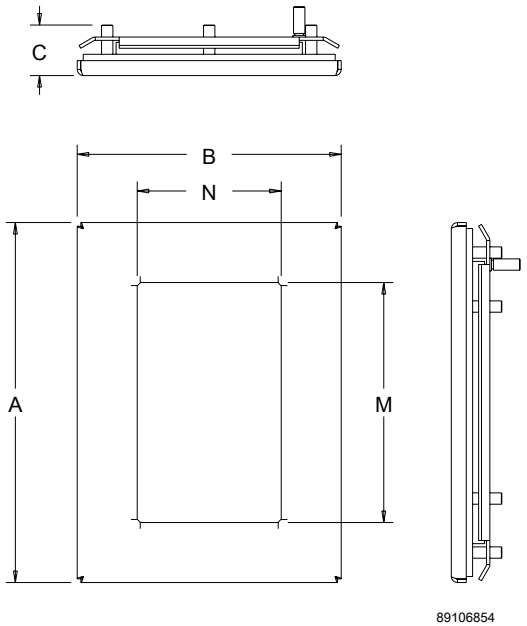
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HLY

Standard Product

Catalog Number	AxBxC in./mm	M in./mm	N in./mm	Required Cutout size in./mm
EXWK53SS6	7.50 x 5.50 x 1.43 191 x 140 x 36	5.00 127	3.00 76	6.69 x 4.69 170 x 119
EXWK95SS6	11.50 x 8.00 x 1.43 292 x 203 x 36	9.00 229	5.50 140	10.69 x 7.19 272 x 183
EXWK711SS6	9.50 x 13.05 x 1.43 241 x 343 x 36	7.00 178	11.00 279	8.69 x 12.69 211 x 392
EXWK138SS6	15.50 x 10.50 x 1.43 394 x 267 x 36	13.00 330	8.00 203	14.69 x 9.69 373 x 246
EXWK715SS6	9.50 x 17.50 x 1.43 241 x 445 x 36	7.00 178	15.00 381	8.69 x 16.69 211 x 424
EXWK1711SS6	19.50 x 13.50 x 1.43 495 x 343 x 36	17.00 432	11.00 279	18.69 x 12.69 475 x 322
EXWK720SS6	9.50 x 22.50 x 1.43 241 x 572 x 36	7.00 178	20.00 508	8.69 x 21.69 221 x 551
EXWK2315SS6	25.50 x 17.50 x 1.43 648 x 445 x 36	23.00 584	15.00 381	24.69 x 16.69 627 x 424
EXWK724SS6	9.50 x 26.50 x 1.43 241 x 673 x 36	7.00 178	24.00 610	8.69 x 25.69 653 x 221
EXWK729SS6	9.50 x 31.50 x 1.43 241 x 800 x 36	7.00 178	29.00 737	8.69 x 30.69 221 x 780
EXWK2919SS6	31.50 x 21.50 x 1.43 800 x 546 x 36	29.00 737	19.00 483	30.69 x 20.69 780 x 526

M x N = Window size



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HAZARDOUS LOCATION LED LIGHTS, STRIP

APPLICATION

Hazardous Location LED Strip Lights provide enclosure illumination in hazardous environments. These lights are ideal for remote and darkened enclosure applications in Class 1, Division 2 hazardous areas. With a robust design, these lights have a life span of 100,000 hours and superior lighting performance with easy field angle adjustment brackets. These versatile, lightweight LED lights provide mounting flexibility and are are easy to install in an enclosure.

FEATURES

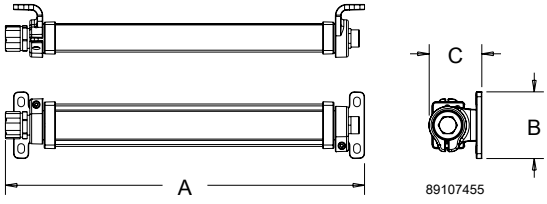
- Direct transfer of heat from PCB to the casing to maximize lifetime and reliability
- Operating temperature of -40 F (-40 C) to 140 F (60 C)
- Easy installation with included mechanical assembly kit while maintaining enclosure rating up to UL Type 4X
- Includes 3-ft connect cable with flying leads
- Maximum lighting for control panels with 578 to 2,351 lumens and 5,000K color temperature
- Linear drive circuit with no flicker or high frequency electronic noise
- Easy field angle adjustment with mounting bracket
- Wide beam optics with 100 degree angle of illumination
- Available in 12, 24, 36, and 48-inch lengths

INDUSTRY STANDARDS

UL 844 Listed; File No. E492323
cUL Listed per CSA C22.2 No. 137; File No. E492323
Class I, Division 2 Groups A, B, C, D, T4*; Class II, Division 2, Groups F, and G, T6; Class III; Class I, Zone 2, Group IIC; Zone 22

IEC 60529, IP66/67

*T3C for simultaneous exposure rating, Class I Div. 2 & Class II, Div. 2



BULLETIN: HLY

Standard Product

Catalog Number	AxBxC in./mm	Description	Weight (lbs.)	Weight (kg)	VDC	Amps	Power	Lumens
LEDHL24V12	15.46 x 2.20 x 2.78 393 x 56 x 71	LED Light, 12-in.	1.8	.8	22 - 28	.4	11W	578
LEDHL24V24	26.46 x 2.20 x 2.78 672 x 56 x 71	LED Light, 24-in.	2.6	1.2	22 - 28	.75	21W	1172
LEDHL24V36	37.46 x 2.20 x 2.78 952 x 56 x 71	LED Light, 36-in.	3.9	1.8	22 - 28	1.1	32W	1758
LEDHL24V48	48.46 x 2.20 x 2.78 1231 x 56 x 71	LED Light, 48-in.	5.3	2.4	22 - 28	1.5	42W	2351

HAZARDOUS LOCATION LED LIGHT, CAN

APPLICATION

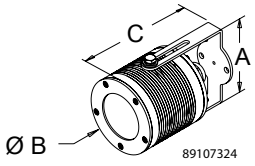
Hazardous Location LED CAN Light provides efficient indoor or outdoor illumination in hazardous environments. This light is ideal for Class 1, Division 2 hazardous areas. With a robust design, this light has a projected lifespan of 100,000 hours and superior lighting performance with minimal power consumption. This versatile, durable LED light provides mounting flexibility and is easy to install.

FEATURES

- Robust construction design for suitable outdoor applications; IP66
- Minimum power consumption and superior lighting with 12-24 VDC power input
- Maximum lighting with 469 lumens output
- 360-degree rotation allows flexible and versatile mounting
- Wide beam optics with 100-degree angle of illumination

INDUSTRY STANDARDS

ETL Listed
Class I Division 2, Groups A, B, C and D, T3
Conforms To CSA.22.2 No. 137, 213, 250 Standards
Conforms To UL 844 & 1598 Standards
Conforms to ISA-12.12-01
Maintains enclosure Type 4, 4X rating when properly installed



BULLETIN: HLY

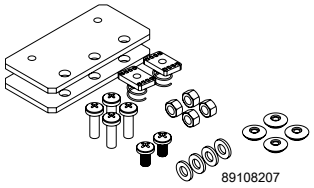
Standard Product

Catalog Number	AxBxC in./mm	Description	Weight (lbs.)	Weight (kg)	VDC	Amps	Power	Lumens
LEDHL24VCAN	3.74 x 3.48 x 5.62 95 x 88 x 143	LED Light, CAN	2.3	1.0	12 - 24	.66A @ 12VDC .35A @ 24VDC	7.9W @ 12VDC 8.4W @ 24VDC	469

REPLACEMENT HARDWARE KIT FOR HAZARDOUS LOCATION LED LIGHTS

Replacement Hardware Kit is available for the replacement of lost or damaged hardware supplied with Hazardous Location LED lights. Kit includes bracket adapter plate, all mounting hardware and complete instructions.

BULLETIN: HLY



Catalog Number	Description
AHKC1D2LED	Replacement Hardware Kit

HAZARDOUS LOCATION DOOR SWITCH

APPLICATION

The Hazardous Location Door Switch is designed to be used with Hoffman Hazardous Location LED Lights in Class 1, Division 2 hazardous areas. The included hardware kit allows the door switch to easily be mounted and maintain the enclosure rating up to UL Type 4X. This versatile switch activates the LED light when the enclosure door is opened and can be mounted on any flange of the enclosure. The included five-foot connect cable allows ease of wiring to the enclosure back panel.

BULLETIN: HLY

INDUSTRY STANDARDS

Switch Rating
Explosion-proof for Class 1, Division 2, Groups A, B, C, and D
FM Approved to Standard Class 3600, 3615-1989

Catalog Number	Description	Max. Voltage	Operating Temperature	Max. load
LEDHLSWITCH	Door Switch, C1D2	30 VDC / 5 Amps	-40 F (40 C) to 194 F (90 C)	5 Amps at 30 VDC

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HAZARDOUS LOCATION BREATHER DRAINS

INDUSTRY STANDARDS

Ex e Breather Drains
Certified for Zone 1 or 2 areas
ATEX
- Sira 13ATEX3354U
- Ex e IIC Gb
- Ex tb IIIC Db IP66

IECEx
- IECEx SIR 13.0138U
- Ex e IIC Gb
- Ex tb IIIC Db IP66

cCSAus Certified Class 1 Zone 1, Ex e II, IP66, Type 4X
NEMA/EEMAC Type 4, 4X
IEC 60529, IP66
Maintain enclosure Type 4, 4X rating when properly installed

Ex d Breather Drains
Certified for Zone 1 or 2 areas
ATEX
- ITS13ATEX17900X
- Ex d IIC Gb
- Ex e IIC Gb
- Ex tb IIIC Db IP66

IECEx
- IECEx ITS 13.0049X
- Ex d IIC Gb
- Ex e IIC Gb
- Ex tb IIIC Db IP66

NEMA/EEMAC Type 4, 4X
IEC 60529, IP66
Maintain enclosure Type 4, 4X rating when properly installed

APPLICATION

Hazardous Location Breather Drains prevent moisture build-up within hazardous approved enclosures while maintaining enclosure UL Type rating. Drains are to be used when an enclosure is subject to fluctuations in temperature which can lead to the formation of condensation and a subsequent moisture build-up. These drains allow air within an enclosure to breathe with the surrounding atmosphere, preventing condensation and any potential damage to electrical equipment.

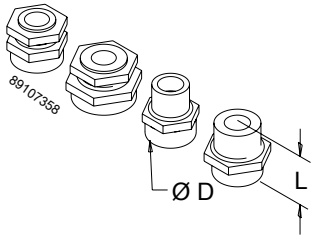
FEATURES

- Reduce corrosion that can limit the life of internal electrical and electronic components
- Prevent condensation when installations are subject to fluctuations in temperature in hazardous locations
- Effectively drain any water present within the enclosure
- Minimize moisture build-up within the enclosure by allowing air in the enclosure to breathe with surrounding atmosphere
- Position at the lowest point of an enclosure to ensure optimal draining of any moisture
- Maintain enclosure's UL Type rating when properly installed
- Available for Increased Safety (Ex e) and Flameproof (Ex d) applications

SPECIFICATIONS

Ex e Breather Drains:
- Type 316 stainless steel with castellated nut and nitrile O-ring
- 10mm thread length
- Install in a clearance hole 0.5 to 1.0mm larger than major diameter, or in a tapped hole
- Operating temperature of -58 F (-50 C) to 185 F (85 C)

Ex d Breather Drains:
- Type 316 stainless steel with silicone O-ring
- 16mm thread length
- Install in a tapped hole
- Operating temperature of -22 F (-30 C) to 302 F (150 C)



BULLETIN: HLY

Catalog Number	AxBxC in.	AxBxC mm	Description	Thread Type	D (in.)	D (mm)	L (in.)	L (mm)	Weight (lbs.)	Weight (kg)
EXEBDM20SS6	1.57 x 1.57 x 0.98	40 x 40 x 25	Ex e M20 Breather Drain	M20	1.13	28.7	.99	25.1	0.16	0.1
EXEBDM25SS6	1.57 x 1.57 x 0.98	40 x 40 x 25	Ex e M25 Breather Drain	M25	1.41	35.8	1.30	33.0	0.27	0.1
EXDBDM20SS6	1.57 x 1.57 x 0.98	40 x 40 x 25	Ex d M20 Breather Drain	M20	1.06	26.9	.99	25.1	0.18	0.1
EXDBDM25SS6	1.57 x 1.57 x 0.98	40 x 40 x 25	Ex d M25 Breather Drain	M25	1.2	31.8	1.30	33.0	0.25	0.1

HAZARDOUS LOCATION HOLE SEALS

INDUSTRY STANDARDS

IECEx and ATEX Approvals
Suitable for use on increased safety enclosures for ZONE 1 or ZONE 2 assemblies
ATEX Directive 94/9/EC

ATEX

Ex e IIC Gb
Ex tb IIIC Db IP 66
Sira 14ATEX3233U

IECEx

Ex e IIC Gb
Ex tb IIIC Db IP 66
IECEx SIR 14.0073U

UL 508A Component Recognized; Type 4, 4X,12, 3R; File No. E61997
cUR Component Recognized per CSA C22.2 No. 94; Type 4, 4X, 12, 3R; File No. 42186

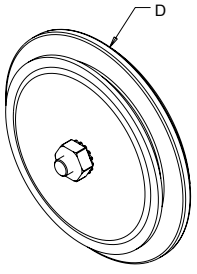
NEMA/EEMAC Type 3R, 4, 4X, 12
IEC 60529, IP66

APPLICATION

Hazardous Location Hole Seals are designed to be used on Increased Safety (Ex e) enclosures in ATEX or IECEx Zone 1 or 2 hazardous areas. Certified to be used on metallic, non-painted enclosures, these hole seals are made with a robust Type 316 stainless steel formed outer plate and a silicone rubber gasket to ensure a dust, oil and watertight seal. Designed to seal extra pushbutton holes, conduit openings and knockout openings, these self-centering hole seals are easy to install.

FEATURES

- Robust formed outer plates are made from Type 316 stainless steel with a brushed finish
- Secure sealing with silicon rubber gasket to protect against water and dust ingress in extreme temperature applications ranging from -55 C (-67 F) to 180 C (356 F)
- Seal pushbutton holes, conduit openings and knockout openings against dust, dirt, oil and water
- Easy installation in enclosure cutouts with self-centering hole seals
- Hole seals are available in metric and english standard hole sizes



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BULLETIN: HLY

Standard Product

Catalog Number	Fits	Hole Dia. (in.)	Hole Dia. +.2.5/-.00 (mm)	Assembly Dia. D (in.)	Assembly Dia. D (mm)
EXAS050SS6	1/2-in. Conduit or M20	.787 - .885	20	1.36	35
EXAS075SS6	3/4-in. Conduit or M25	.984 - 1.082	25	1.71	43
EXAS100SS6	1-in. Conduit or M32	1.259 - 1.358	32	1.89	48
EXAS125SS6	1 1/4-in. Conduit or M40	1.574 - 1.673	40	2.33	59
EXAS150SS6	1 1/2-in. Conduit or M50	1.968 - 2.066	50	2.64	67
EXAS200SS6	2-in. Conduit or M63	2.480 - 2.578	63	3.14	80
EXAS250SS6	2 1/2-in. Conduit or M75	2.952 - 3.051	75	3.64	93

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HAZARDOUS LOCATION CABLE GLANDS FOR NON-ARMORED CABLE (EX D/E/TB) (S-)

APPLICATION

Hazloc cable glands provide strain relief, sealing and secure entry of cables into enclosures or electrical equipment in hazardous areas. Suitable for Zone 1, 2, 21 or 22 with ATEX and IEC certifications, these cable glands are reliable to protect critical processes and people where explosive gas and dust may be present. Available in various materials, thread types and sizes, our hazloc cable glands are designed to be used in many applications and under extreme environments.

FEATURES

- Suitable for non-armored cables in flameproof (ex d), increased safety (ex e) and dust (ex tb) applications
- Allow for a wider clamping range in a single gland with three levels of removable seals
- All metric thread cable glands are packaged as kits; each kit includes a chloroprene washer, a locknut and an earthtag
- All NPT thread cable glands are packaged as kits; each kit includes a locknut and an earthtag (except for NPT 3/8 in. cable glands which do not include locknuts or earthtags)

SPECIFICATIONS

- Available in nickel-plated brass material with chloroprene seal and 316L stainless steel material with silicone seal
- Available in Metric (M) and NPT (N) thread type
- Operating temperature from -40 C (-40 F) to 100 C (212 F) with chloroprene seal and -60 C (-76 F) to 130 C (266 F) with silicon seal

BULLETIN: HLY

INDUSTRY STANDARDS

II2GD Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP66/68

Approved to Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-31, UL2225, CAN/CSA-C22.2 No.60079-0, CAN/CSA-C22.2 No.60079-7, CAN/CSA-C22.2 No.60079-31

Ingress Protection: IP66/68 (EN60529)

Certificate No.: IMQ 13 ATEX 018X / IECEx IMQ 13.0006X
Suitable for use in:
- Zone 1 and 2, Gas Group IIC
- Zone 21 and 22, Dust Group IIIC

UL Listing No: E474828. Suitable for use in:
- Class I, Zone 1, AEx e IIC
- Class I, Zone 2, AEx e IIC
- Zone 22, AEX tc IIIC

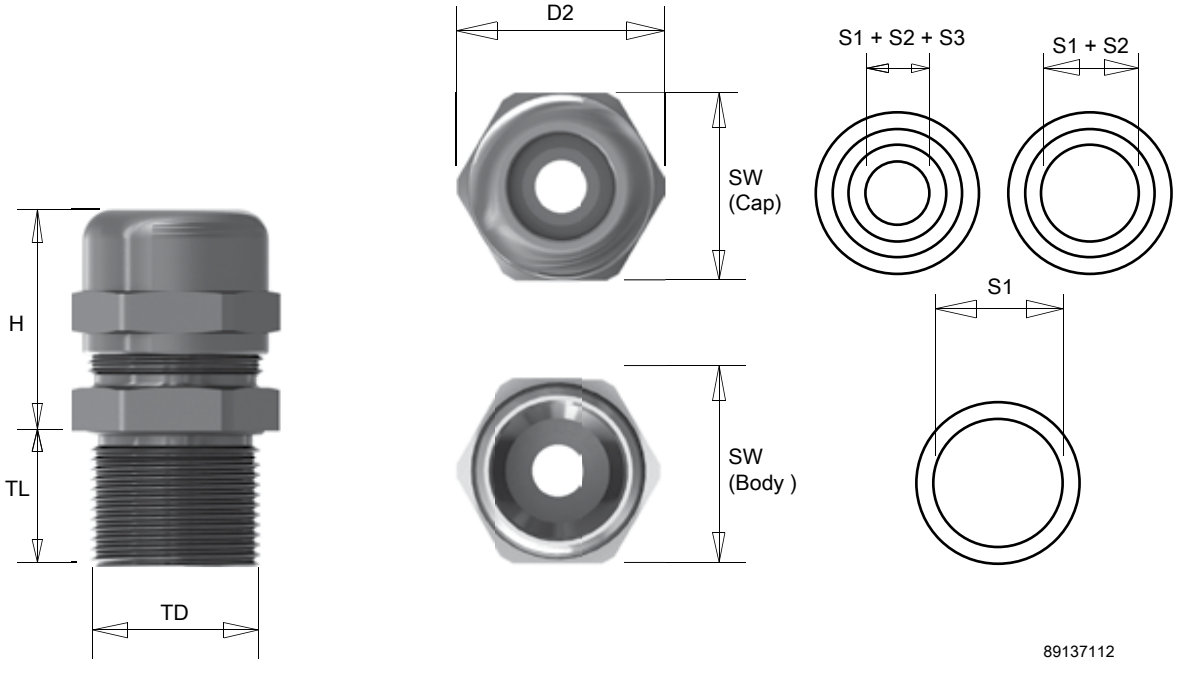
Other Approvals: EAC, INMETRO, DNV-GL

Standard Product

Catalog Number	Size	Thread Length min. TL (mm)	Thread Length min. TL (in.)	Thread Dia. TD (mm)	Thread Dia. TD (in.)	Outer Dia. min. D2 (mm)	Outer Dia. min. D2 (in.)	Height max. H (mm)	Height max. H (in.)
EBU01MBNCWCLE	M16x1.5	16.0	0.63	16.0	0.63	24.5	0.96	33.0	1.30
EBU1MBNCWCLE	M20x1.5	16.0	0.63	20.0	0.79	24.5	0.96	29.0	1.14
EBU2MBNCWCLE	M25x1.5	16.0	0.63	25.0	0.98	31.0	1.22	32.5	1.28
EBU3MBNCWCLE	M32x1.5	16.0	0.63	32.0	1.26	39.0	1.54	35.0	1.38
EBU4MBNCWCLE	M40x1.5	18.0	0.71	40.0	1.57	49.5	1.95	43.0	1.69
EBU5MBNCWCLE	M50x1.5	18.0	0.71	50.0	1.97	56.0	2.20	46.0	1.81
EBU6MBNCWCLE	M63x1.5	18.0	0.71	63.0	2.48	70.0	2.80	45.0	1.77
EBU01MXSWSLE	M16x1.5	16.0	0.63	16.0	0.63	24.5	0.96	33.0	1.30
EBU1MXSWSLE	M20x1.5	16.0	0.63	20.0	0.79	24.5	0.96	29.0	1.14
EBU2MXSWSLE	M25x1.5	16.0	0.63	25.0	0.98	31.0	1.22	32.5	1.28
EBU3MXSWSLE	M32x1.5	16.0	0.63	32.0	1.26	39.0	1.54	35.0	1.38
EBU4MXSWSLE	M40x1.5	18.0	0.71	40.0	1.57	49.5	1.95	43.0	1.69
EBU5MXSWSLE	M50x1.5	18.0	0.71	50.0	1.97	56.0	2.20	46.0	1.81
EBU6MXSWSLE	M63x1.5	18.0	0.71	63.0	2.48	70.0	2.80	45.0	1.77
EBU01NBNC	NPT3/8 in.	16.0	0.63	17.2	0.68	24.5	0.96	33.0	1.30
EBU1NBNCLE	NPT1/2 in.	16.0	0.63	21.3	0.84	24.5	0.96	29.0	1.14
EBU2NBNCLE	NPT3/4 in.	16.0	0.63	26.7	1.05	31.0	1.22	32.5	1.28
EBU3NBNCLE	NPT1 in.	20.0	0.79	33.4	1.31	39.0	1.54	35.0	1.38
EBU4NBNCLE	NPT1-1/4 in.	20.0	0.79	42.2	1.66	49.5	1.95	43.0	1.69
EBU5NBNCLE	NPT1-1/2 in.	20.0	0.79	48.3	1.90	56.0	2.20	46.0	1.81
EBU6NBNCLE	NPT2 in.	20.0	0.79	60.3	2.38	70.0	2.80	45.0	1.77
EBU01NXS	NPT3/8 in.	16.0	0.63	17.2	0.68	24.5	0.96	33.0	1.30
EBU1NXSLE	NPT1/2 in.	16.0	0.63	21.3	0.84	24.5	0.96	29.0	1.14
EBU2NXSLE	NPT3/4 in.	16.0	0.63	26.7	1.05	31.0	1.22	32.5	1.28
EBU3NXSLE	NPT1 in.	20.0	0.79	33.4	1.31	39.0	1.54	35.0	1.38
EBU4NXSLE	NPT1-1/4 in.	20.0	0.79	42.2	1.66	49.5	1.95	43.0	1.69
EBU5NXSLE	NPT1-1/2 in.	20.0	0.79	48.3	1.90	56.0	2.20	46.0	1.81
EBU6NXSLE	NPT2 in.	20.0	0.79	60.3	2.38	70.0	2.80	45.0	1.77

Additional Specifications

							Spanner Width					
Catalog Number	S1+S2+S3 (mm)	S1+S2+S3 (in.)	S1+S2 (mm)	S1+S2 (in.)	S1 (mm)	S1 (in.)	Cap SW (mm)	Cap SW (in.)	Body SW (mm)	Body SW (in.)	Material	Sealing
EBU01MBNCWCLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Nickel-plated Brass	Chloroprene
EBU1MBNCWCLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Nickel-plated Brass	Chloroprene
EBU2MBNCWCLE	10-12	0.39-0.47	12-14.5	0.47-0.57	14.5-18	0.57-0.71	28.0	1.10	28.0	1.10	Nickel-plated Brass	Chloroprene
EBU3MBNCWCLE	14-17	0.55-0.67	17-20	0.67-0.79	20-24	0.79-0.94	35.0	1.38	35.0	1.38	Nickel-plated Brass	Chloroprene
EBU4MBNCWCLE	22-24	0.87-0.94	24-27	0.94-1.06	27-32	1.06-1.26	45.0	1.77	45.0	1.77	Nickel-plated Brass	Chloroprene
EBU5MBNCWCLE	26-28	1.02-1.10	28-31	1.1-1.22	31-35	1.22-1.38	50.0	1.97	55.0	2.17	Nickel-plated Brass	Chloroprene
EBU6MBNCWCLE	35-38	1.38-1.50	38-41	1.5-1.61	41-45	1.61-1.77	64.0	2.52	68.0	2.68	Nickel-plated Brass	Chloroprene
EBU01MXSWSLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Stainless Steel	Silicone
EBU1MXSWSLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Stainless Steel	Silicone
EBU2MXSWSLE	10-12	0.39-0.47	12-14.5	0.47-0.57	14.5-18	0.57-0.71	28.0	1.10	28.0	1.10	Stainless Steel	Silicone
EBU3MXSWSLE	14-17	0.55-0.67	17-20	0.67-0.79	20-24	0.79-0.94	35.0	1.38	35.0	1.38	Stainless Steel	Silicone
EBU4MXSWSLE	22-24	0.87-0.94	24-27	0.94-1.06	27-32	1.06-1.26	45.0	1.77	45.0	1.77	Stainless Steel	Silicone
EBU5MXSWSLE	26-28	1.02-1.10	28-31	1.1-1.22	31-35	1.22-1.38	50.0	1.97	55.0	2.17	Stainless Steel	Silicone
EBU6MXSWSLE	35-38	1.38-1.50	38-41	1.5-1.61	41-45	1.61-1.77	64.0	2.52	68.0	2.68	Stainless Steel	Silicone
EBU01NBNC	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Nickel-plated Brass	Chloroprene
EBU1NBNCLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Nickel-plated Brass	Chloroprene
EBU2NBNCLE	10-12	0.39-0.47	12-14.5	0.47-0.57	14.5-18	0.57-0.71	28.0	1.10	28.0	1.10	Nickel-plated Brass	Chloroprene
EBU3NBNCLE	14-17	0.55-0.67	17-20	0.67-0.79	20-24	0.79-0.94	35.0	1.38	35.0	1.38	Nickel-plated Brass	Chloroprene
EBU4NBNCLE	22-24	0.87-0.94	24-27	0.94-1.06	27-32	1.06-1.26	45.0	1.77	45.0	1.77	Nickel-plated Brass	Chloroprene
EBU5NBNCLE	26-28	1.02-1.10	28-31	1.1-1.22	31-35	1.22-1.38	50.0	1.97	55.0	2.17	Nickel-plated Brass	Chloroprene
EBU6NBNCLE	35-38	1.38-1.50	38-41	1.5-1.61	41-45	1.61-1.77	64.0	2.52	68.0	2.68	Nickel-plated Brass	Chloroprene
EBU01NXS	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Stainless Steel	Silicone
EBU1NXSLE	4-6	0.16-0.24	6-9	0.24-0.35	9-12	0.35-0.47	22.0	0.87	22.0	0.87	Stainless Steel	Silicone
EBU2NXSLE	10-12	0.39-0.47	12-14.5	0.47-0.57	14.5-18	0.57-0.71	28.0	1.10	28.0	1.10	Stainless Steel	Silicone
EBU3NXSLE	14-17	0.55-0.67	17-20	0.67-0.79	20-24	0.79-0.94	35.0	1.38	35.0	1.38	Stainless Steel	Silicone
EBU4NXSLE	22-24	0.87-0.94	24-27	0.94-1.06	27-32	1.06-1.26	45.0	1.77	45.0	1.77	Stainless Steel	Silicone
EBU5NXSLE	26-28	1.02-1.10	28-31	1.1-1.22	31-35	1.22-1.38	50.0	1.97	55.0	2.17	Stainless Steel	Silicone
EBU6NXSLE	35-38	1.38-1.50	38-41	1.5-1.61	41-45	1.61-1.77	64.0	2.52	68.0	2.68	Stainless Steel	Silicone



nVent | HOFFMAN

HAZARDOUS LOCATION CABLE GLANDS FOR ARMORED CABLE (EX D/E/TB)

APPLICATION

Hazloc cable glands provide strain relief, sealing and secure entry of cables into enclosures or electrical equipment in hazardous areas. Suitable for Zone 1, 2, 21 or 22 with ATEX and IEC certifications, these cable glands are reliable to protect critical processes and people where explosive gas and dust may be present. Available in various materials, thread types and sizes, our hazloc cable glands are designed to be used in many applications and under extreme environments.

FEATURES

- Suitable for SWA (steel wire armored), AWA (aluminum wire armored), SWB (steel wire braid), STA (steel tape armored), and shielded cable in flameproof (ex d), increased safety (ex e) and dust (ex tb) applications
- Allow for double sealing of cable and jacket with upper and lower seals
- The swivel retainer and grounding cone are adhered to the gland body by the o-rings to prevent any loose parts; remove by simply pull these components slightly to detach
- All metric thread cable glands are packaged as kits; each kit includes a chloroprene washer, a locknut and an earthtag
- All NPT thread cable glands are packaged as kits; each kit includes a locknut and an earthtag (except for NPT 3/8-in. cable glands which do not include locknuts or earthtags)

SPECIFICATIONS

- Available in nickel-plated brass material with chloroprene seal and 316L stainless steel material with silicone seal
- Available in Metric (M) and NPT (N) thread type
- Operating temperature from -40 C (-40 F) to 100 C (212 F) with chloroprene seal and -60 C (-76 F) to 130 C (266 F) with silicon seal

BULLETIN: HLY

INDUSTRY STANDARDS

II2GD Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP66/68

Approved to Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-31, UL2225, CAN/CSA-C22.2 No.60079-0, CAN/CSA-C22.2 No.60079-7, CAN/CSA-C22.2 No.60079-31

Ingress Protection: IP66/68 (EN60529)

Certificate No.: CESI 13 ATEX 033X / IECEx CES 13.0013X. Suitable for use in:
- Zone 1 and 2, Gas Group IIC
- Zone 21 and 22, Dust Group IIIC

UL Listing No: E474828. Suitable for use in:
- Class I, Zone 1, AEx e IIC
- Class I, Zone 2, AEx e IIC
- Zone 22, AEX tc IIIC

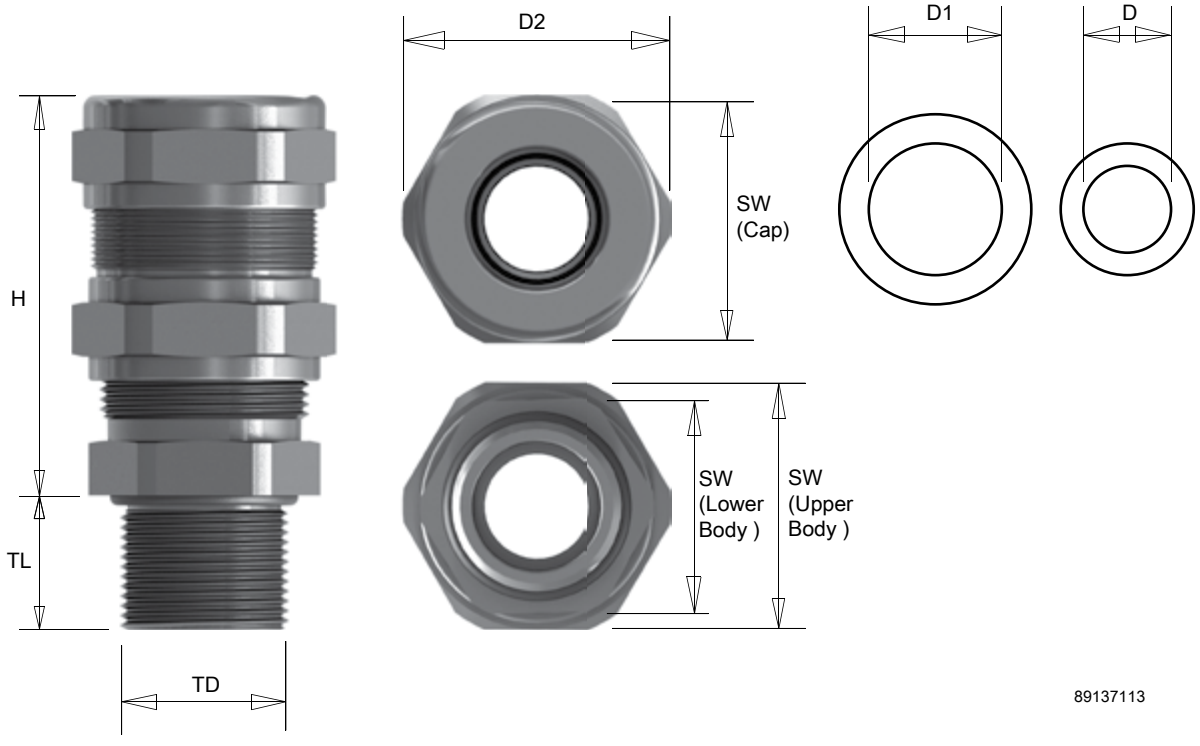
Other Approvals:
EAC, INMETRO, DNV-GL

Standard Product

Catalog Number	Size	Thread Length Min. TL (mm)	Thread Length Min. TL (in.)	Thread Dia. TD (mm)	Thread Dia. TD (in.)	Outer Dia. Min. D2 (mm)	Outer Dia. Min. D2 (in.)	Height Max. H (mm)	Height Max. H (in.)	Armor Wire Dia. (mm)	Armor Wire Dia. (in.)	Shielded Wire Dia. (mm)	Shielded Wire Dia. (in.)
KBAU01MBNCWCLE	M16x1.5	16.0	0.63	16.0	0.63	31.5	1.24	52.0	2.05	1.20	0.05	0.50	0.02
KBAU1MBNCWCLE	M20x1.5	16.0	0.63	20.0	0.79	31.5	1.24	51.0	2.01	1.20	0.05	0.50	0.02
KBAU2MBNCWCLE	M25x1.5	18.0	0.71	25.0	0.98	37.0	1.46	56.5	2.22	1.30	0.05	0.70	0.03
KBAU3MBNCWCLE	M32x1.5	18.0	0.71	32.0	1.26	57.0	2.24	80.5	3.17	1.80	0.07	0.70	0.03
KBAU4MBNCWCLE	M40x1.5	18.0	0.71	40.0	1.57	66.0	2.60	101.5	4.00	2.20	0.09	0.70	0.03
KBAU5MBNCWCLE	M50x1.5	18.0	0.71	50.0	1.97	83.0	3.27	102.0	4.02	2.70	0.11	0.90	0.04
KBAU6MBNCWCLE	M63x1.5	20.0	0.79	63.0	2.48	94.0	3.70	110.0	4.33	3.00	0.12	1.00	0.04
KBAU01MXSWSLE	M16x1.5	16.0	0.63	16.0	0.63	31.5	1.24	52.0	2.05	1.20	0.05	0.50	0.02
KBAU1MXSWSLE	M20x1.5	16.0	0.63	20.0	0.79	31.5	1.24	51.0	2.01	1.20	0.05	0.50	0.02
KBAU2MXSWSLE	M25x1.5	18.0	0.71	25.0	0.98	37.0	1.46	56.5	2.22	1.30	0.05	0.70	0.03
KBAU3MXSWSLE	M32x1.5	18.0	0.71	32.0	1.26	57.0	2.24	80.5	3.17	1.80	0.07	0.70	0.03
KBAU4MXSWSLE	M40x1.5	18.0	0.71	40.0	1.57	66.0	2.60	101.5	4.00	2.20	0.09	0.70	0.03
KBAU5MXSWSLE	M50x1.5	18.0	0.71	50.0	1.97	83.0	3.27	102.0	4.02	2.70	0.11	0.90	0.04
KBAU6MXSWSLE	M63x1.5	20.0	0.79	63.0	2.48	94.0	3.70	110.0	4.33	3.00	0.12	1.00	0.04
KBAU01NBNC	NPT3/8 in.	16.0	0.63	17.1	0.67	31.5	1.24	52.0	2.05	1.20	0.05	0.50	0.02
KBAU1NBNCLE	NPT1/2 in.	16.0	0.63	21.3	0.84	31.5	1.24	51.0	2.01	1.20	0.05	0.50	0.02
KBAU2NBNCLE	NPT3/4 in.	18.0	0.83	26.7	1.05	37.0	1.46	56.5	2.22	1.30	0.05	0.50	0.02
KBAU3NBNCLE	NPT1 in.	18.0	0.83	33.4	1.31	57.0	2.24	80.5	3.17	1.80	0.07	0.70	0.03
KBAU4NBNCLE	NPT1-1/4 in.	18.0	1.10	42.2	1.66	66.0	2.60	101.5	4.00	2.20	0.09	0.70	0.03
KBAU5NBNCLE	NPT1-1/2 in.	18.0	1.10	48.3	1.90	83.0	3.27	102.0	4.02	2.70	0.11	0.90	0.04
KBAU6NBNCLE	NPT2 in.	20.0	1.10	60.3	2.38	94.0	3.70	110.0	4.33	3.00	0.12	1.00	0.04
KBAU01NXS	NPT3/8 in.	16.0	0.63	17.1	0.67	31.5	1.24	52.0	2.05	1.20	0.05	0.50	0.02
KBAU1NXSLE	NPT1/2 in.	16.0	0.63	21.3	0.84	31.5	1.24	51.0	2.01	1.20	0.05	0.50	0.02
KBAU2NXSLE	NPT3/4 in.	21.0	0.83	26.7	1.05	37.0	1.46	56.5	2.22	1.30	0.05	0.50	0.02
KBAU3NXSLE	NPT1 in.	21.0	0.83	33.4	1.31	57.0	2.24	80.5	3.17	1.80	0.07	0.70	0.03
KBAU4NXSLE	NPT1-1/4 in.	28.0	1.10	42.2	1.66	66.0	2.60	101.5	4.00	2.20	0.09	0.70	0.03
KBAU5NXSLE	NPT1-1/2 in.	28.0	1.10	48.3	1.90	83.0	3.27	102.0	4.02	2.70	0.11	0.90	0.04
KBAU6NXSLE	NPT2 in.	28.0	1.10	60.3	2.38	94.0	3.70	110.0	4.33	3.00	0.12	1.00	0.04

Additional Specifications

	Clamping Range Dia.				Spanner Width							
Catalog Number	**D (mm)**	**D (in.)**	**D1 (mm)**	**D1 (in.)**	Cap SW (mm)	Cap SW (in.)	Upper Body SW (mm)	Upper Body SW (in.)	Lower Body SW (mm)	Lower Body SW (in.)	Material	Sealing
KBAU01MBNCWCLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Nickel-plated Brass	Chloroprene
KBAU1MBNCWCLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Nickel-plated Brass	Chloroprene
KBAU2MBNCWCLE	12.0-16.0	0.47-0.63	16.0-21.0	0.63-0.83	34.0	1.34	34.0	1.34	32.0	1.26	Nickel-plated Brass	Chloroprene
KBAU3MBNCWCLE	15.0-26.0	0.59-1.02	20.0-33.0	0.79-1.30	52.0	2.05	52.0	2.05	48.0	1.89	Nickel-plated Brass	Chloroprene
KBAU4MBNCWCLE	20.0-32.0	0.79-1.26	29.0-41.0	1.14-1.61	60.0	2.36	60.0	2.36	55.0	2.17	Nickel-plated Brass	Chloroprene
KBAU5MBNCWCLE	27.0-41.0	1.06-1.61	36.0-52.0	1.42-2.05	74.0	2.91	70.0	2.76	70.0	2.76	Nickel-plated Brass	Chloroprene
KBAU6MBNCWCLE	40.0-52.0	1.57-2.05	47.0-60.0	1.85-2.36	85.0	3.35	85.0	3.35	85.0	3.35	Nickel-plated Brass	Chloroprene
KBAU01MXSWSLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Stainless Steel	Silicone
KBAU1MXSWSLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Stainless Steel	Silicone
KBAU2MXSWSLE	12.0-16.0	0.47-0.63	16.0-21.0	0.63-0.83	34.0	1.34	34.0	1.34	32.0	1.26	Stainless Steel	Silicone
KBAU3MXSWSLE	15.0-26.0	0.59-1.02	20.0-33.0	0.79-1.30	52.0	2.05	52.0	2.05	48.0	1.89	Stainless Steel	Silicone
KBAU4MXSWSLE	20.0-32.0	0.79-1.26	29.0-41.0	1.14-1.61	60.0	2.36	60.0	2.36	55.0	2.17	Stainless Steel	Silicone
KBAU5MXSWSLE	27.0-41.0	1.06-1.61	36.0-52.0	1.42-2.05	74.0	2.91	70.0	2.76	70.0	2.76	Stainless Steel	Silicone
KBAU6MXSWSLE	40.0-52.0	1.57-2.05	47.0-60.0	1.85-2.36	85.0	3.35	85.0	3.35	85.0	3.35	Stainless Steel	Silicone
KBAU01NBNC	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Nickel-plated Brass	Chloroprene
KBAU1NBNCLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Nickel-plated Brass	Chloroprene
KBAU2NBNCLE	12.0-16.0	0.47-0.63	16.0-21.0	0.63-0.83	34.0	1.34	34.0	1.34	32.0	1.26	Nickel-plated Brass	Chloroprene
KBAU3NBNCLE	15.0-26.0	0.59-1.02	20.0-33.0	0.79-1.30	52.0	2.05	52.0	2.05	48.0	1.89	Nickel-plated Brass	Chloroprene
KBAU4NBNCLE	20.0-32.0	0.79-1.26	29.0-41.0	1.14-1.61	60.0	2.36	60.0	2.36	55.0	2.17	Nickel-plated Brass	Chloroprene
KBAU5NBNCLE	27.0-41.0	1.06-1.61	36.0-52.0	1.42-2.05	74.0	2.91	70.0	2.76	70.0	2.76	Nickel-plated Brass	Chloroprene
KBAU6NBNCLE	40.0-52.0	1.57-2.05	47.0-60.0	1.85-2.36	85.0	3.35	85.0	3.35	85.0	3.35	Nickel-plated Brass	Chloroprene
KBAU01NXS	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Stainless Steel	Silicone
KBAU1NXSLE	6.0-12.0	0.24-0.47	8.5-16.0	0.33-0.63	29.0	1.14	29.0	1.14	25.0	0.98	Stainless Steel	Silicone
KBAU1NXSLE	12.0-16.0	0.47-0.63	16.0-21.0	0.63-0.83	34.0	1.34	34.0	1.34	32.0	1.26	Stainless Steel	Silicone
KBAU3NXSLE	15.0-26.0	0.59-1.02	20.0-33.0	0.79-1.30	52.0	2.05	52.0	2.05	48.0	1.89	Stainless Steel	Silicone
KBAU4NXSLE	20.0-32.0	0.79-1.26	29.0-41.0	1.14-1.61	60.0	2.36	60.0	2.36	55.0	2.17	Stainless Steel	Silicone
KBAU5NXSLE	27.0-41.0	1.06-1.61	36.0-52.0	1.42-2.05	74.0	2.91	70.0	2.76	70.0	2.76	Stainless Steel	Silicone
KBAU6NXSLE	40.0-52.0	1.57-2.05	47.0-60.0	1.85-2.36	85.0	3.35	85.0	3.35	85.0	3.35	Stainless Steel	Silicone



HAZARDOUS LOCATION CABLE GLANDS FOR NON-ARMORED CABLE , NON-ME TALL IC (EX E/TB)

APPLICATION

Hazloc cable glands provide strain relief, sealing and secure entry of cables into enclosures or electrical equipment in hazardous areas. Suitable for Zone 1, 2, 21 or 22 with ATEX and IEC certifications, these cable glands are reliable to protect critical processes and people where explosive gas and dust may be present. Constructed of polyamide 6 and available in various thread types and sizes, our hazloc cable glands are designed to be used in many applications and under extreme environments.

FEATURES

- Suitable for non-armored cables in increased safety (ex e) and dust (ex tb) applications
- Provide high level of protection and reliability in extreme environments with impact resistance of up to 7 Joules
- All metric thread cable glands are packaged as kits. Each kit includes a chloroprene washer and a locknut

SPECIFICATIONS

- Available in polyamide 6 material with chloroprene seal
- Available in Metric (M) and NPT (N) thread type
- Operating temperature from -40 C to 70 C with chloroprene seal

BULLETIN: HLY

INDUSTRY STANDARDS

II2GD Ex e IIC Gb, Ex tb IIIC Db IP66/68
Approved to Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 60079-31

Ingress Protection: IP66/68 (EN60529)

Certificate No.: IMQ 13 ATEX 010X / IECEx IMQ 13.0003X. Suitable for use in:
- Zone 1 and 2, Gas Group IIC
- Zone 21 and 22, Dust Group IIIC

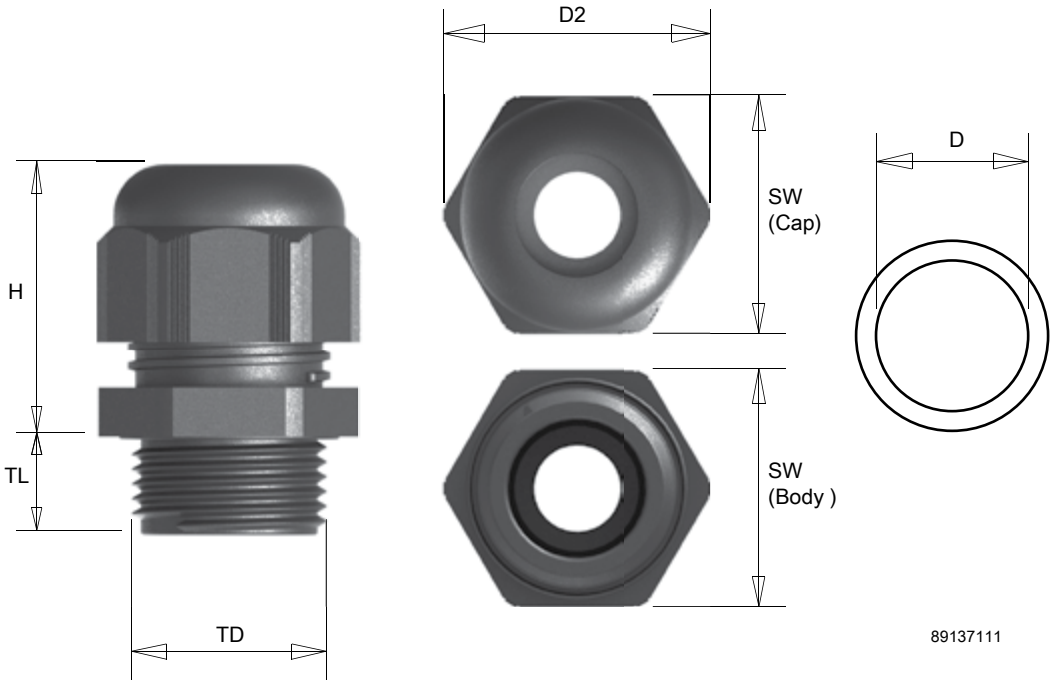
Other Approvals:
EAC, INMETRO, DNV-GL

Standard Product

Catalog Number	Size	Thread Length min. TL (mm)	Thread Length min. TL (in.)	Thread Dia. TD (mm)	Thread Dia. TD (in.)	Outer Dia. min. D2 (mm)	Outer Dia. min. D2 (in.)	Height min. H (mm)	Height min. H (in.)
HIBMX1CWCL	M16x1.5	10.0	0.39	16.0	0.63	25.0	0.98	21.5	0.85
HIBMX2CWCL	M20x1.5	10.0	0.39	20.0	0.79	27.5	1.08	23.0	0.91
HIBMXEU25CWCL	M25x1.5	10.0	0.39	25.0	0.98	32.5	1.28	27.0	1.06
HIBMXEU32CWCL	M32x1.5	10.0	0.39	32.0	1.26	41.0	1.61	31.0	1.22
HIBNX1C	NPT3/8 in.	15.0	0.59	17.1	0.67	25.0	0.98	21.5	0.85
HIBNX2C	NPT1/2 in.	15.0	0.59	21.3	0.84	27.5	1.08	23.0	0.91
HIBNX3C	NPT3/4 in.	15.0	0.59	26.7	1.05	37.0	1.46	28.0	1.10
HIBNX4C	NPT1 in.	18.0	0.71	33.4	1.31	47.5	1.87	32.5	1.28

Additional Specifications

	Clamping Range Dia.		Spanner Width					
Catalog Number	D (mm)	D (in.)	Cap SW (mm)	Cap SW (in.)	Body SW (mm)	Body SW (in.)	Material	Sealing
HIBMX1CWCL	6.0-10.0	0.24-0.39	22.0	0.87	22.0	0.87	Polyamide	Chloroprene
HIBMX2CWCL	7.0-12.0	0.28-0.47	24.0	0.94	24.0	0.94	Polyamide	Chloroprene
HIBMXEU25CWCL	12.0-17.0	0.47-0.67	29.0	1.14	29.0	1.14	Polyamide	Chloroprene
HIBMXEU32CWCL	16.0-21.0	0.63-0.83	36.0	1.42	36.0	1.42	Polyamide	Chloroprene
HIBNX1C	6.0-10.0	0.24-0.39	22.0	0.87	22.0	0.87	Polyamide	Chloroprene
HIBNX2C	7.0-12.0	0.28-0.47	24.0	0.94	24.0	0.94	Polyamide	Chloroprene
HIBNX3C	14.0-18.0	0.55-0.71	33.0	1.30	33.0	1.30	Polyamide	Chloroprene
HIBNX4C	19.0-25.0	0.75-0.98	42.0	1.65	42.0	1.65	Polyamide	Chloroprene


D2
SW
(Cap)
D
H
TL
SW
(Body)
TD
89137111

SMALL-VOLUME TYPE Y AND Z PURGING/PRESSURIZATION SYSTEM

INDUSTRY STANDARDS

For A1001YZUMC1 (Volume up to 2 cubic feet)
NEC **Type Y** Class I, Division 1, Groups A, B, C and D to Division 2
NEC **Type Z** Class I, Division 2, Groups A, B, C and D to Unclassified

Classified by Underwriters Laboratories, cUL and Factory Mutual

For A1001YZUMC2 (Volume up to 10 cubic feet)
NEC **Type Y** Class II, Division 1, Groups F and G to Division 2
NEC **Type Z** Class II, Division 2, Groups F and G to Unclassified

Classified by Underwriters Laboratories, cUL and Factory Mutual

APPLICATION

Small-Volume Purging/Pressurization Systems are an alternative to NEMA Type 7 or 9 enclosures. The C1 model allows general-purpose enclosures, up to two cubic feet, to be used in certain Class 1 hazardous locations. The C2 model allows general purpose enclosures, up to 10 cubic feet, to be used in certain Class 2 hazardous locations.

SPECIFICATIONS

- Universal mount
- Available in two models for enclosures with a maximum enclosure volume of up to 2 or 10 cubic feet
- Mounting plate: Type 316 brushed stainless steel
- Regulator body: zinc with enamel finish
- Enclosure pressure gauge: aluminum with enamel finish
- Polycarbonate regulator handle
- Fastener hardware available in aluminum and stainless steel
- Includes tamper-proof regulator with gauge (TR-10G) to comply with NFPA standard requiring protection against overpressurization

Note: Pressure Vent not required when inlet pressure limited to 5PSI using standard TR-10G. For inlet pressure over 5PSI order EPV-1-SA-00 or EPV-1-SA-90 separately. Contact Hoffman for pricing.

PROTECTED ENCLOSURES

Enclosures should be constructed from materials such as metal, fiberglass or polycarbonate material to meet or exceed NEMA Type 4, Type 4X or Type 12 performance requirements.

CLASS RATINGS

Classes define the explosive or ignitable substances that are present in the atmosphere.
Class I Flammable gases or liquid vapors
Class II Ignitable metal, carbon or organic dusts
Class III Ignitable fibrous materials

GROUP RATINGS

Groups define substances by rating their explosive or ignitable nature in relation to other known substances.

DIVISION RATINGS

Divisions define the degree of hazard by determining an explosive or ignitable substance's expected concentration in the atmosphere.
Division 1 Contains substances under normal conditions
Division 2 Contains substances under abnormal conditions

TYPICAL CLASS I SUBSTANCES

Group A Acetylene
Group B Hydrogen or >30% hydrogen by volume
Group C Ethyl, ether and ethylene
Group D Propane

TYPICAL CLASS II SUBSTANCES

Group E Aluminum, magnesium and alloys
Group F Carbon, coke and coal
Group G Flour, grain, wood, plastic and chemicals

NOTES

Division 1 areas must be surrounded by Division 2 areas.
Class II, Group E areas must be rated as Division 1 areas.

MODIFICATION AND CUSTOMIZATION

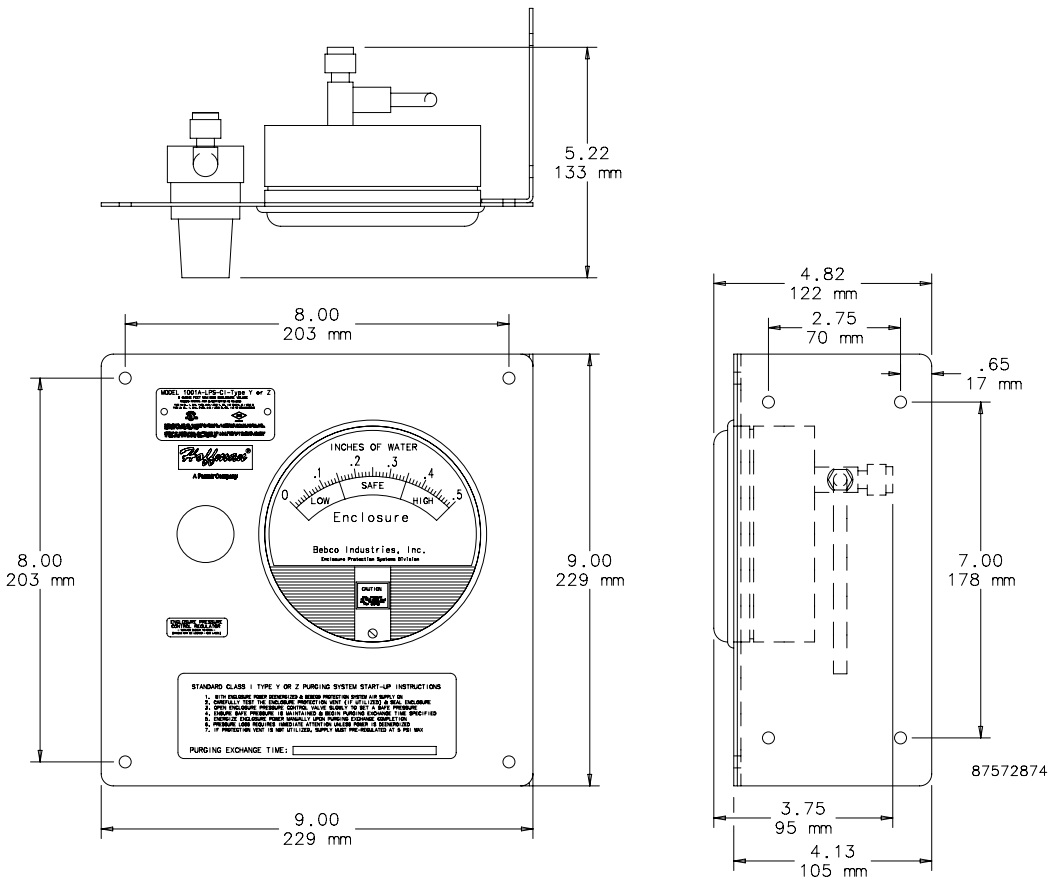
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HL

Standard Product

Catalog Number	Model	Height in./mm	Width in./mm	Depth in./mm	Volume ($ft.^3$)	Volume (m^3)	Weight (lb.)	Weight (kg)
A1001YZUMC1	1001, Class 1	9.00 229	9.00 229	5.00 127	2	.06	8.25	3.74
A1001YZUMC2	1001, Class 2	9.00 229	9.00 229	5.00 127	10	.28	8.50	3.86

Model 1001 Configuration System and Flange Dimensions



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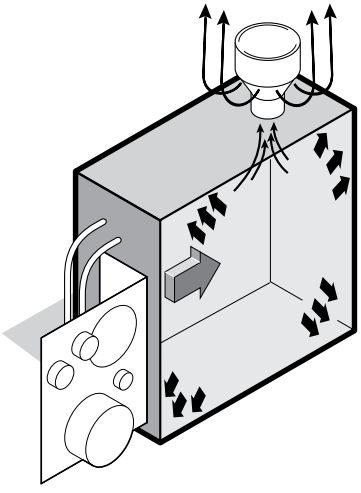
LARGE-VOLUME TYPE Y AND Z PURGING/PRESSURIZATION SYSTEM



INDUSTRY STANDARDS

(Volume up to 90 cubic feet)
3003 LPS
NEC **Type Y** Class 1, Division 1, Groups A, B, C and D / Zone 1 Groups IIA, IIB and IIC to Division 2 / Zone 2
NEC **Type Z** Class I, Division 2, Groups A, B, C and D / Zone 2 Groups IIA, IIB and IIC to Nonhazardous

Classified by Underwriters Laboratories, NFPA 496-1993

APPLICATION

Large-Volume Purging/Pressurization System supplies one or more enclosures, up to 90 cubic feet total volume, with a protective gas supply, thus allowing the use of general-purpose enclosures in certain Class 1, Division 1 and 2 hazardous locations.

SPECIFICATIONS

- Vertical mount (VM) or horizontal mount (HM)
- 90 cubic feet maximum enclosure volume
- System face plate and mounting plate: Type 316 stainless steel with tumble finish
- Regulator body: zinc with enamel finish
- Manifold body: anodized aluminum with Type 316 stainless steel valves
- Enclosure pressure gauge: aluminum with enamel finish
- Gas supply gauge: poly case and nickel-plated tube
- Enclosure protection vent—90 degree
- Rapid exchange control valve
- Enclosure supply and enclosure reference bulkhead fittings: Type 316 stainless steel
- Fastener hardware

PROTECTED ENCLOSURES

Enclosures should be constructed from materials such as metal, fiberglass or polycarbonate material. Enclosure seal should meet or exceed NEMA Type 4 or Type 12 performance requirements.

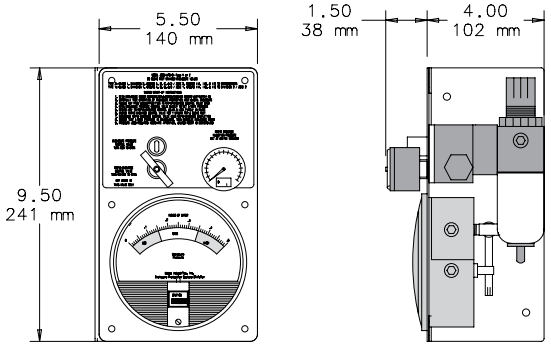
BULLETIN: HL

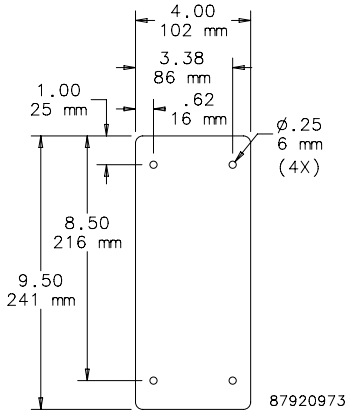
FM APPROVED
CLASSIFIED C UL US

Standard Product

Catalog Number	Height in./mm	Width in./mm	Depth in./mm	Volume (ft.^{3})	Volume (m^3)	Weight (lb.)	Weight (kg)
A3003YZVM	9.50 241	5.50 140	5.50 140	90	2.55	10	4.54
A3003YZHM	5.50 140	10.75 273	5.50 140	90	2.55	10	4.54

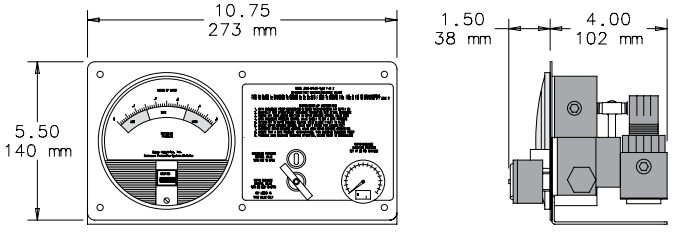
Model 3003 VM Configuration System & Flange Dimensions

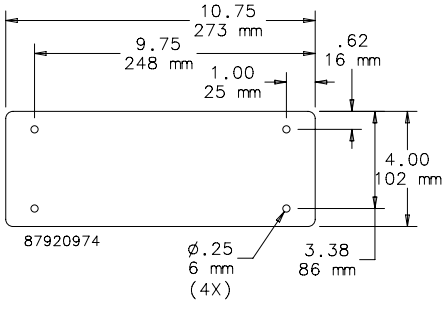




Vertical Mount Flange

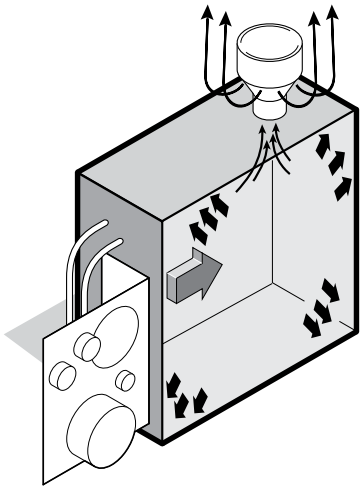
Model 3003 HM Configuration System & Flange Dimensions





Horizontal Mount Flange

LARGE-VOLUME ATEX PURGE SYSTEM TYPE Y, Z AND EX [PZ]



INDUSTRY STANDARDS

(Volume up to 90 cubic feet)
3003 WPSA
Type Y System, UL and FM Certified: Class I, Division I Group A,B,C, and D/Zone 1, Groups IIB and H_2 to Division 2/Zone 2
Type Z system, UL and FM Certified: Class 1, Division 2 Group A,B,C, and D/Zone 2, Groups IIB and H_2 to Non-hazardous
ATEX Certified
II 3 (3) G Ex [pz] II, -29 C ⩽ $T_{amb.}$ ⩽ 49 C

APPLICATION

Hoffman's **Ex [pz]** purge system is designed and certified according to European requirements of **ATEX Directive 94/9/EC** and **EN60079-2** for **Type Ex [pz] applications**. ATEX certified **Ex [pz]** purge systems reduce the classification in the protected enclosure from Zone 2 to non-hazardous, thereby allowing the use and operation of general purpose equipment in the protected enclosure. Used as a Type Y purge reduces classification from Div. 1 to Div. 2. Type Z purge reduces classification from Div. 2 to Non-Hazardous.

These products are designed to supply one or more enclosures with a protective gas supply. Purge/pressurization systems can be used for electronics, electrical equipment, motors and switch gear in wall-mount to large enclosures. Purge/pressurization systems also meet the demands of rack-mounted instrumentation, video displays, programmable controllers, computers, printers, recorders and measurement and calibration equipment.

Protected Enclosures
Enclosures should be constructed from materials such as metal or polycarbonate material to meet or exceed NEMA Type 4 or Type 12 performance requirements.

SPECIFICATIONS

- Vertical mount (VM) or horizontal mount (HM)
- Available in 90 cubic feet maximum enclosure volume model
- System face plate and mounting plate: Type 316 stainless steel tumble finish
- Regulator body: zinc with enamel finish
- Manifold body: anodized aluminum with Type 316 stainless steel valves
- Enclosure pressure gauge: aluminum with enamel finish
- Gas supply gauge: poly case and nickel-plated tube
- Enclosure protection vent (90 degree)
- Enclosure supply and enclosure reference bulkhead fittings: Type 316 stainless steel
- Fastener hardware available in aluminum and stainless steel
- Rapid-exchange control valve
- Explosion-proof differential pressure switch with "C" contacts for alarm

MODIFICATION AND CUSTOMIZATION

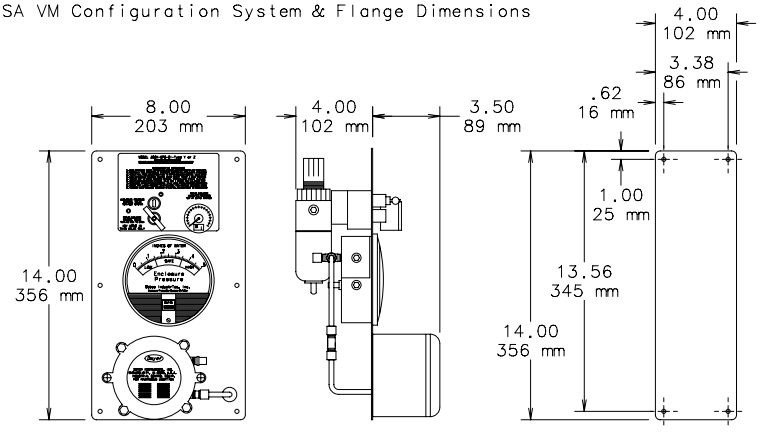
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: HL

Standard Product

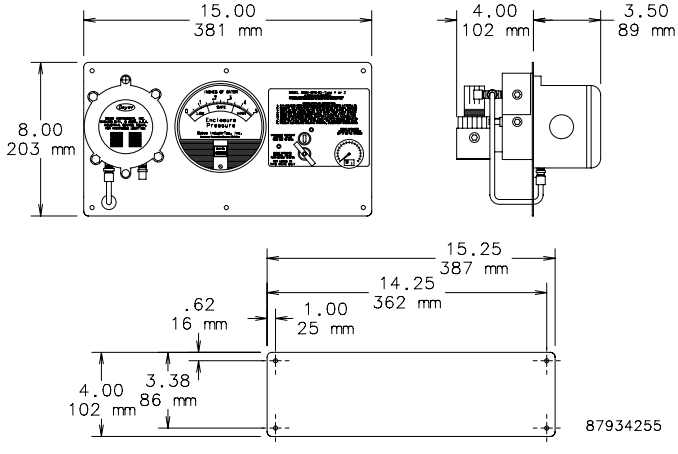
Catalog Number	Height in./mm	Width in./mm	Depth in./mm	Volume (ft.^{3})	Volume (m^3)	Weight (lb.)	Weight (kg)
ATEX3003YZVM	14.00 356	8.00 203	7.50 189	90	2.55	18	8.2
ATEX3003YZHM	8.00 203	15 361	7.50 189	90	2.55	18	8.2

WPSA VM Configuration System & Flange Dimensions



WPSA Vertical Mount Flange

WPSA HM Configuration System & Flange Dimensions



WPSA Horizontal Mount Flange

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PURGE AND PRESSURIZATION SYSTEMS

INDUSTRY STANDARDS

Type X
Ex [px] Ex [p]
IECEx SIR.0019X [Gb, Db]
Europe, ATEX Category 2 GD
Cert no Sira 14ATEX1045X
USA/Canada NFPA496 Cl I Div 1 Groups A, B, C & D
UL E466718

Type Y
Ex [py] Ex [p]
IECEx SIR.0019X [Gb, Db]
Europe, ATEX Category 2 GD
Cert no Sira 14ATEX1045X
North America Cl I Div 1 Groups A, B, C & D
For protecting Cl I Div 2 equipment
UL E466718

Type Z
Ex [pz] Ex [p]
IECEx SIR.0019X [Gc, Dc]
Europe, ATEX Category 3 GD
Cert no Sira 14ATEX1045X
North America Cl I Div 2 Groups A, B, C & D
UL E466718

APPLICATION

Purge and Pressurization is a protection method used with Type 4, 4X and 12 (IP54 recommended minimum) enclosures. The enclosure is initially purged to remove any internal explosive gases or dust. Once this is accomplished, the enclosure is pressurized with a protective air or inert gas supply. This provides a positive internal enclosure pressure which keeps any external explosive gases or dust from entering the enclosure.

The two methods of purge and pressurization offered are Leak Compensation and Continuous Flow.

Leak Compensation
Maintains positive pressure by compensating for losses. System consists of Control Unit and Relief Valve.

Certification Type Y and Z models
- Flush (internal) or external mount models
- Local visual alarm indicator and dry contact output for remote alarm
- Typically recommended for enclosures with volume of 60 Ft^3 or less

Certification Type X Model
- Provides power disconnect when pressurization is lost or not attained
- Provides automatic purge process
- External mount
- Local visual alarm indicator and dry contact output for remote alarm
- Typically recommended for enclosures with volume of 60 Ft^3 or less

Continuous Flow
Provides positive pressure via continuous protective air flow through the enclosure. System consists of Control Unit, Calibrated Outlet Orifice and Relief Valve.

Certification Type Y and Z Models
- Flush (internal) or external mount models
- Local visual alarm indicator and dry contact output for remote alarm
- Typically recommended for enclosures with volume of 17 Ft^3 or less. Larger enclosures can use Continuous Flow models but will require longer purging times.

FEATURES

- All exterior components are 316 stainless steel or corrosion-resistant composite
- Space-saving flush or exterior mounted models available
- Local visual indicators provide system status
- Leak compensation models are equipped with rapid purge valve and visual purge status indicator
- All models utilize dry, clean inert gas supply of 60 PSI (4 bar) to 115 PSI (8 bar)
- Ambient operating temperature -4F (-20C) to 131F (55C)
- Type X models provide automatic purge cycle and 4PNO/20A/440VAC power contactor with 115 VAC or 230 VAC coil

FINISH

Brushed 316 Stainless Steel

OPTIONS

Service Parts Kit for both Leak Compensation and Continuous Flow models

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Cutouts for mounting purge and pressurization devices can be easily added to your enclosure. Contact your local Hoffman Representative or Distributor for more information.

Note:
For all IEC and ATEX applications, the final or complete integrated assembly must be submitted to a notified body for certification.

BULLETIN: HLP

Purge and Pressurization Systems and Certifications

Protection Type	Division (North American, NFPA 496)	Zones (IEC / ATEX)
Y	Enclosures placed in Division 1 classification area may contain Division 2 internal components	Enclosures placed in Zone 1 classification area may have Zone 2 internal components
Z	Enclosures placed in Division 2 classification area may contain general purpose internal components	Enclosures placed in Zone 2 classification area may have general purpose internal components
X	Enclosures placed in Division 1 classification area may contain general purpose internal components	Enclosures placed in Zone 1 classification area may have general purpose internal components

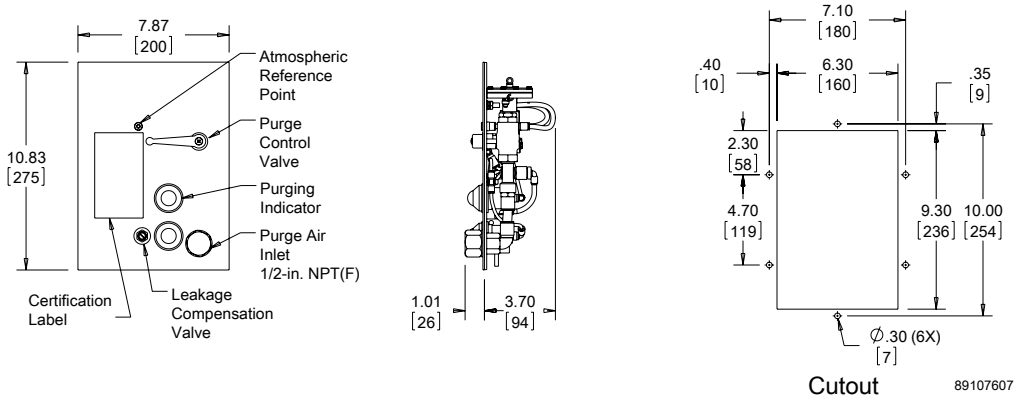
Standard Product **Purge and Pressurization**

Catalog Number	Operation Type	Mounting Type	Certification
PLCF1YZ	Leak Compensation	Flush Mount	Y and Z
PLCB1YZ	Leak Compensation	Exterior Mount	Y and Z
PCFF1YZ	Continuous Flow	Flush Mount	Y and Z
PCFB1YZ	Continuous Flow	Exterior Mount	Y and Z
PLCS1X1	Leak Compensation	Exterior Mount	X (120 VAC)
PLCS1X2	Leak Compensation	Exterior Mount	X (230 VAC)

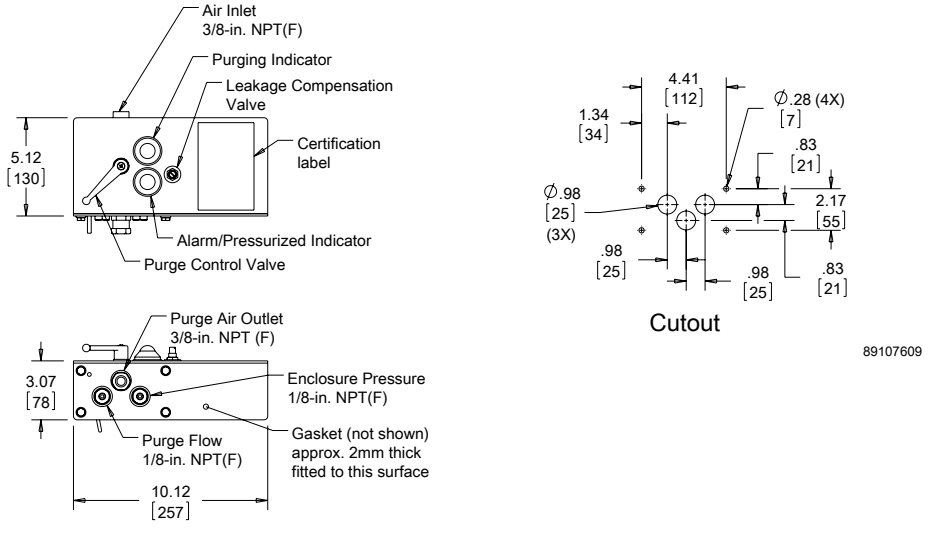
Service Kits

Catalog Number	Description
PLCSKIT	Purge and Pressurization Leakage Compensation Service Kit
PCFSKIT	Purge and Pressurization Continuous Flow Service Kit

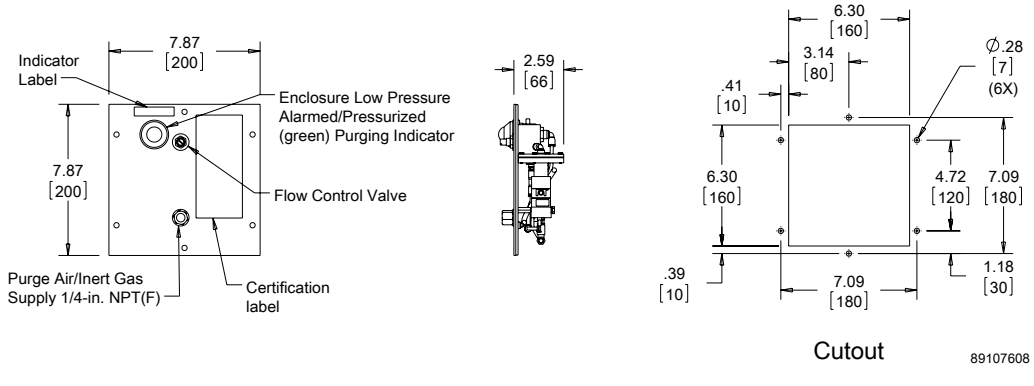
PLCF1YZ



PLCB1YZ



PCFF1YZ



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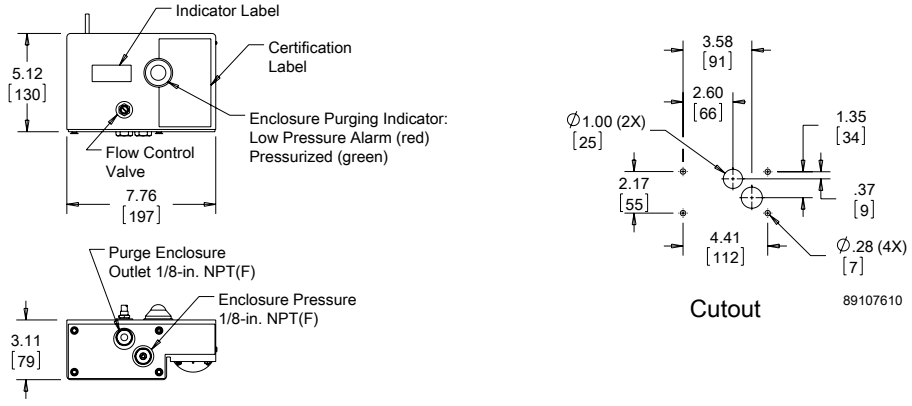
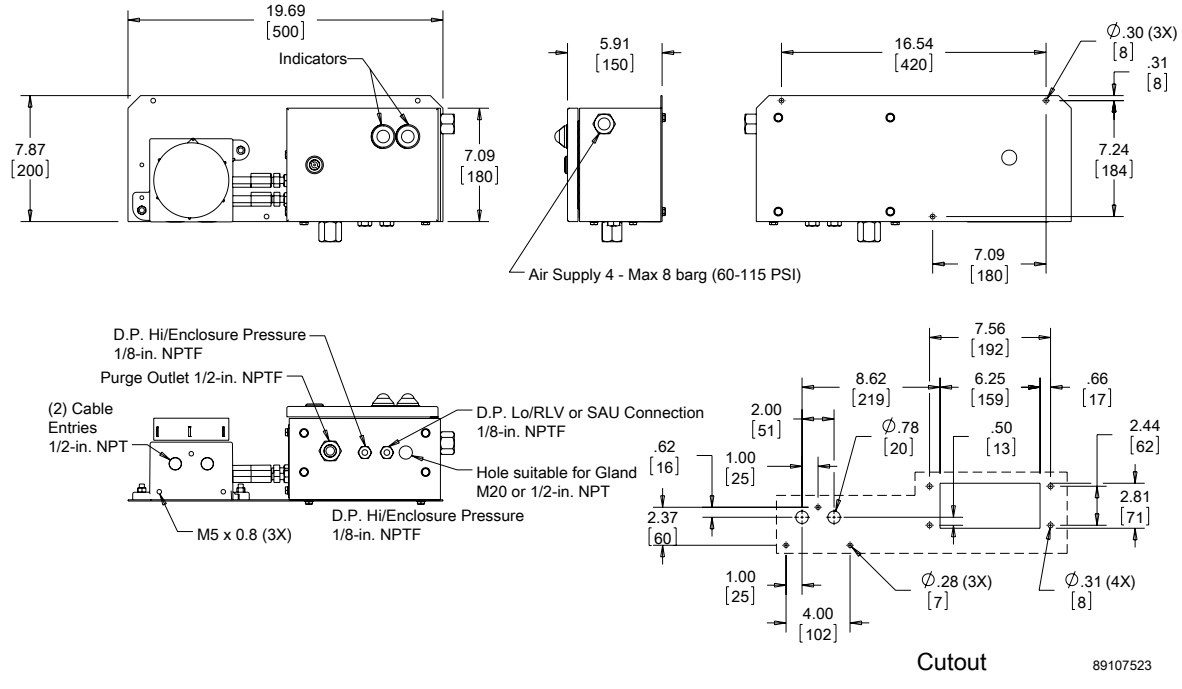
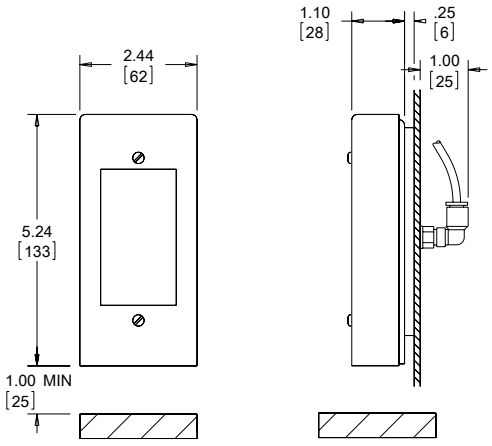
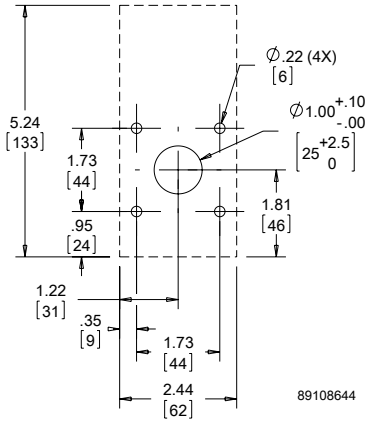


PLCS1X1, PLCS1X2





Relief Valve



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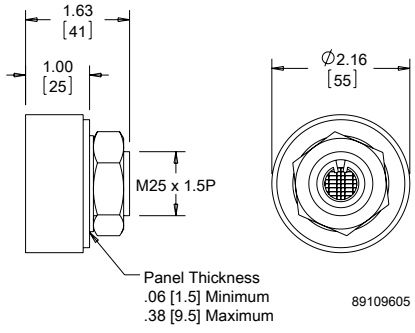


Outlet Orifice for Continuous Flow Models

nVent | HOFFMAN

SPECTRACOOL HAZARDOUS LOCATION INDOOR/OUTDOOR

NHZ43
11000 BTU/Hr.
3223 Watt

NHZ36
6000/8000 BTU/Hr.
1758/2344 Watt

NHZ28
4000 BTU/Hr.
1172 Watt

INDUSTRY STANDARDS

UL/cUL Listed; Type 4; 4X; File No. E469720

CE
Class 1 Div 2 Groups A, B, C, D T4A

APPLICATION

- Onshore and Offshore Oil and Gas
- Chemical and petrochemical
- Mining
- Pharmaceutical
- Any location with potentially hazardous atmospheres created by vapor

FEATURES

- Engineered specifically for hazardous location cooling. Not rebuilt from light industrial air conditioners
- Attractive design with no heavy cast enclosure and minimal use of visible fasteners
- Does not require purge and pressurized system
- Corrosion resistant coating on ambient side components for Type 4X models
- Corrosion resistant coating on ambient and enclosure side components for Type 4X Offshore models
- Dust resistant coils for filterless operation in most environments
- Cleanable, reusable aluminum mesh filter protects coils for extremely dusty and dirty atmospheres
- Digital temperature control
- Narrow design to accommodate 12-in (300-mm) deep cabinets
- R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 3-phase VAC power input
- UL Listed to save customers time and money with agency approvals
- Easy-Mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Type 4/4X models include:
  - Active condensate management with heater strip
  - Compresser Heater
  - Head Pressure Control
  - Power-off relay for door switch and other system requirements
  - Malfunction switch

SPECIFICATIONS

- Nominal cooling capacities:
  NHZ28 4000 BTU/hr. (1172 W)
  NHZ36 6000 & 8000 BTU/hr. (1758 and 2344 W)
  NHZ43 11000 BTU/hr. (3223 W)
- Outdoor model operating temperature range from -40 F/ -40 C to 131 F/ 55 C (125 F/52 C on NHZ28 Series and NHZ43 Series 115V)

FINISH

- Type 4 models RAL 7035 light-gray, semi-textured powder-coat paint
- Type 4X and Offshore models Stainless Steel 316L

NOTES

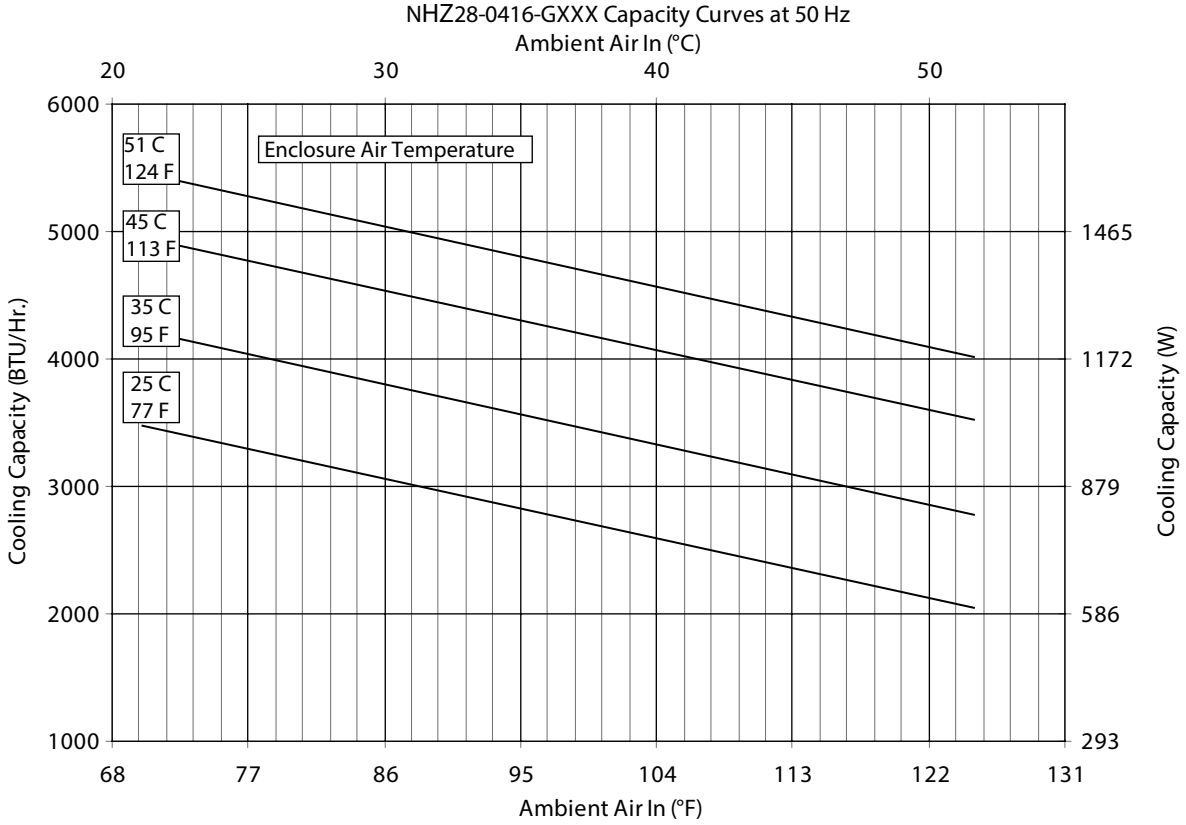
Visit **Hoffman.nVent.com** to download 2D and 3D CAD drawings into the overall design of your electrical system.

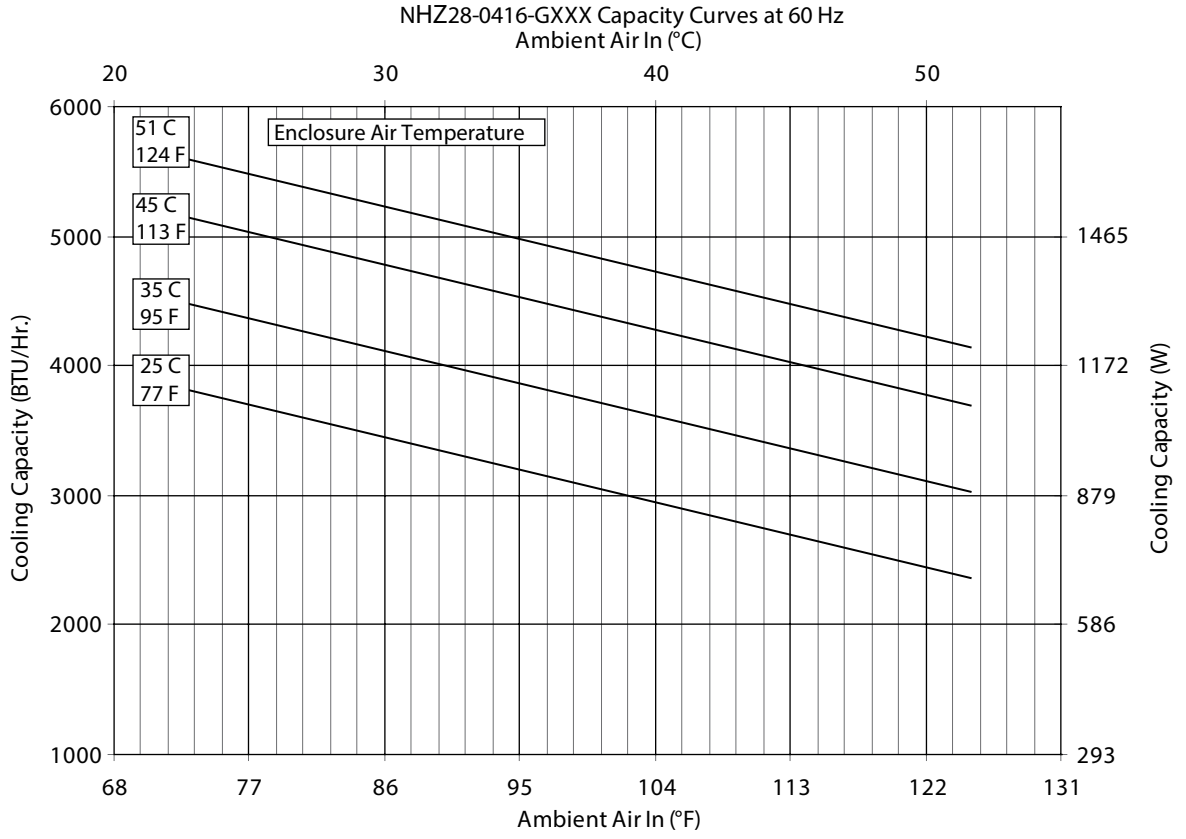
Performance Data **NHZ28 4000 BTU/Hr. (1172 Watt)**

CATALOG NUMBER			
Painted Galvanized Steel Type 4	NHZ280416G300	NHZ280426G300	NHZ280446G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ280416G360	NHZ280426G360	NHZ280446G360
Stainless Steel Type 4X	NHZ280416G400	NHZ280426G400	NHZ280446G400
Stainless Steel Type 4X with Remote Access Control*	NHZ280416G460	NHZ280426G460	NHZ280446G460
Stainless Steel Type 4X Offshore	NHZ280416G500	NHZ280426G500	NHZ280446G500
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	**3800 / 4000**	**3800 / 4000**	**4000**
Watts	**1114 / 1172**	**1114 / 1172**	**1172**
At 125 F / 125 F (52 C / 52 C):			
BTU/Hr. (50 / 60 Hz)	3940 / 4104	4269 / 4703	4703
Watts (50 / 60 Hz)	1150 / 1000	1250 / 1378	1378
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	3754 / 4011	3700 / 4291	4291
Watts (50 / 60 Hz)	1100 / 1175	1086 / 1257	1257
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	10 / 283	11 / 312	11 / 312
Operating Temperature Range:			
Maximum (°F / °C)	125/52	125/52	125/52
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	138 / 234	N/A	N/A
External loop 50 Hz (CFM / M^3/Hr)	268 / 455	N/A	N/A
Internal loop 60 Hz (CFM / M^3/Hr)	143 / 362	143 / 243	143 / 243
External loop 60 Hz (CFM / M^3/Hr)	288 / 728	288 / 489	288 / 489
ELECTRICAL DATA			
Rated Voltage	**110 / 115**	**230**	**400-460/460**
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	930 / 1001	972 / 1106	972 / 1106
Max. Nominal Current (Amps at 50 / 60 Hz)	10.2 / 9.4	4.9 / 5.0	2.4 / 2.5
Starting Current (Amps)	40	24.5	12.5
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 4, 4X Standard	
CONTROLLER			
Description		Digital Controller	
Controller Location		Enclosure Side	
Factory Controller Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	66.1 dBA	65.5 dBA	65.5 dBA
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
UNIT DIMENSIONS			
Height (in / mm)		28 / 711.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	84/38	84/38	98/44

*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

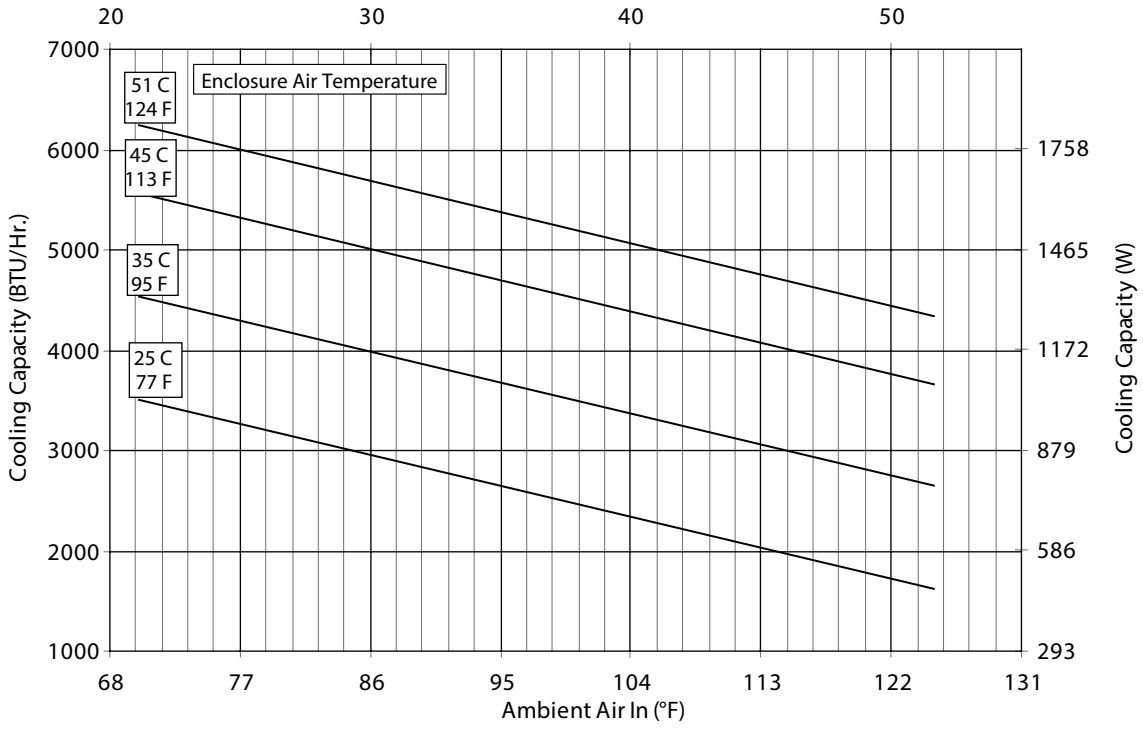
Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)



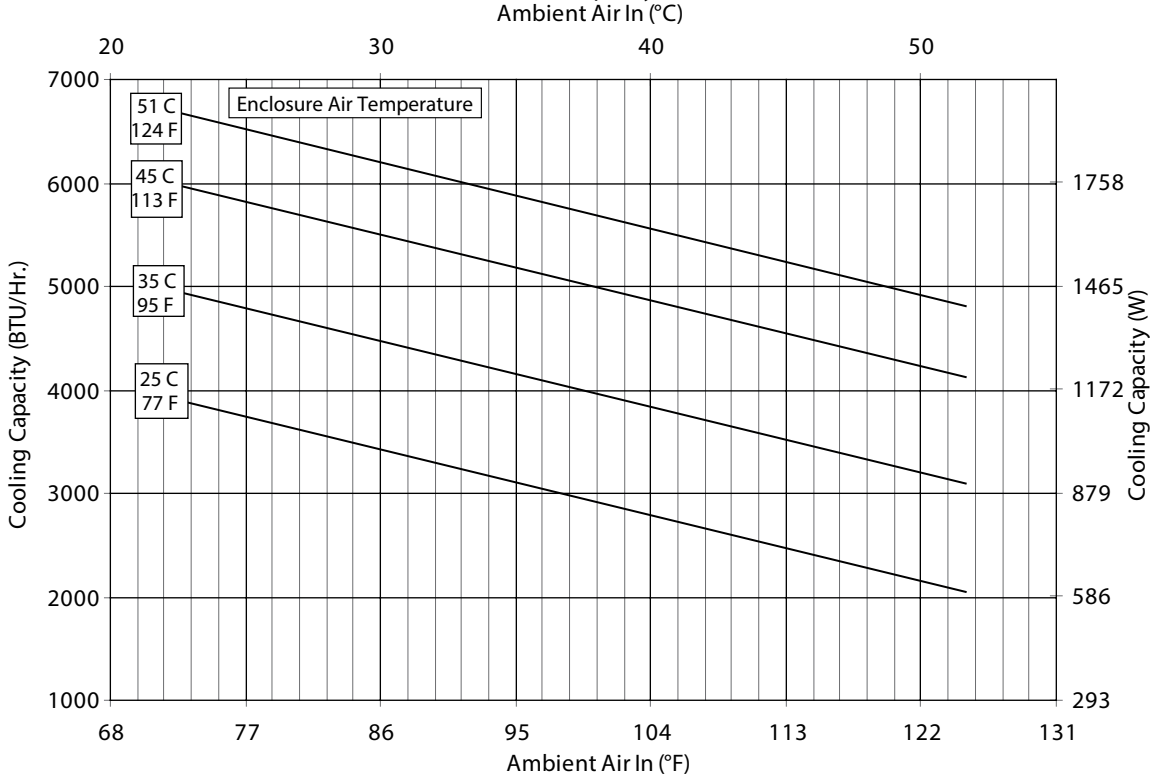


Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)

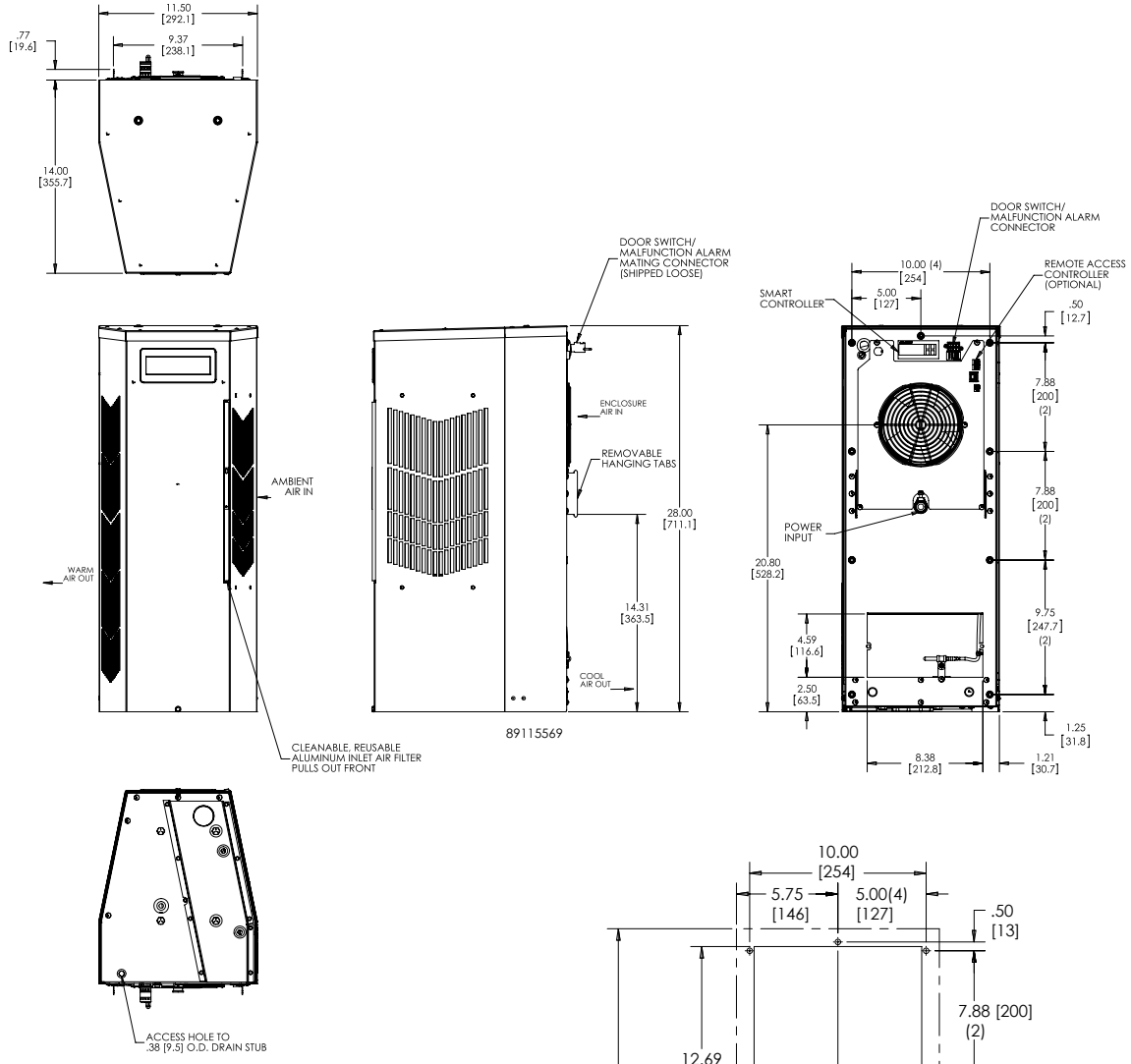
NHZ28-0426-GXXX Capacity Curves at 50 Hz

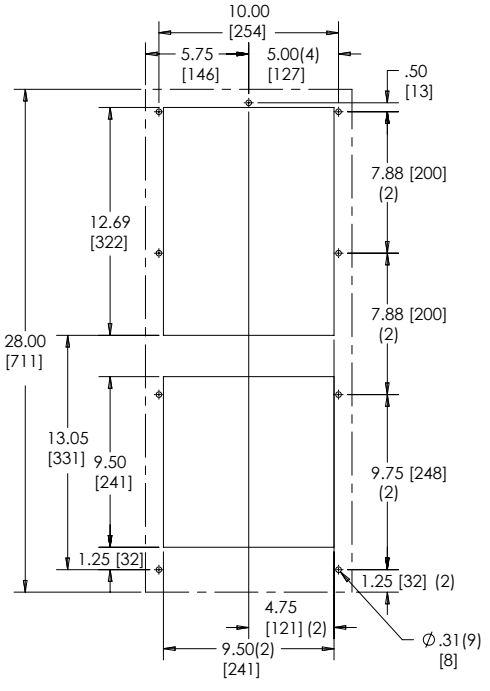


NHZ28-0426-GXXX Capacity Curves at 60 Hz



NHZ28 Models 4000 BTU/Hr. (1172 Watt)





Cutout Dimensions

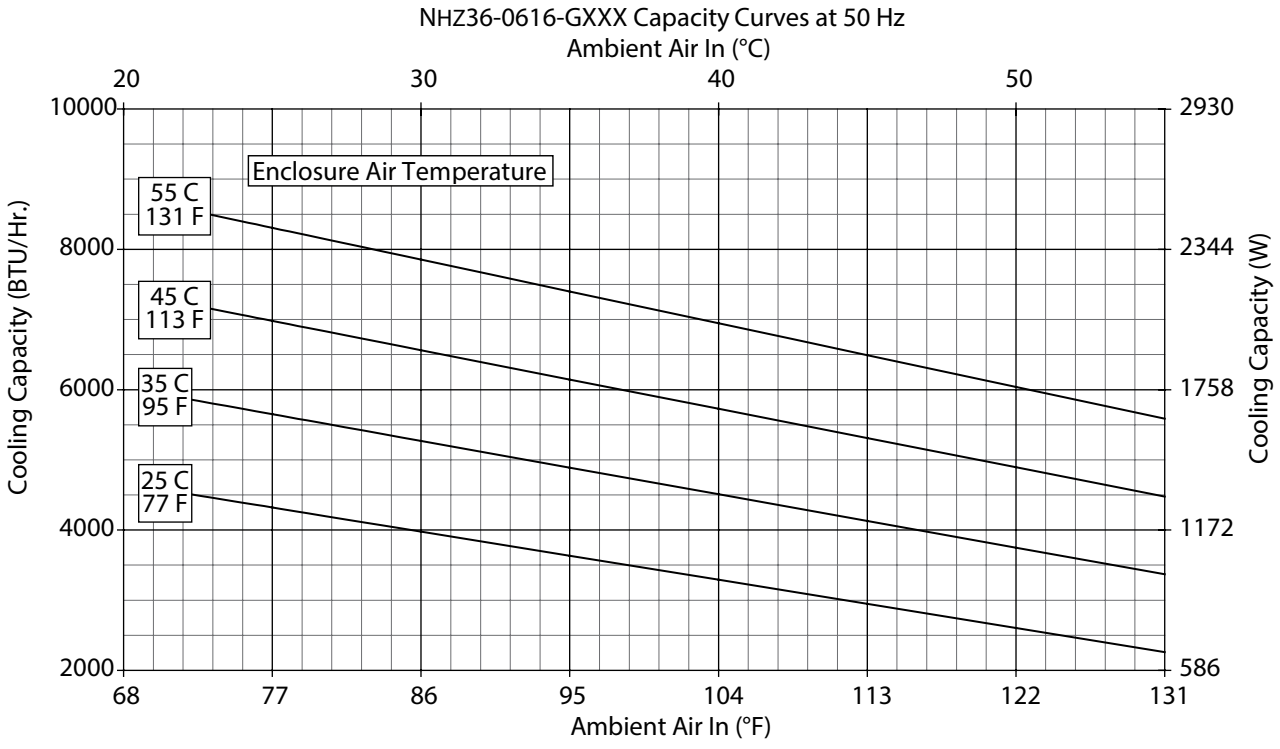
Visit Hoffman.nVent.com to download 2D and 3D CAD drawings into the overall design of your electrical system.

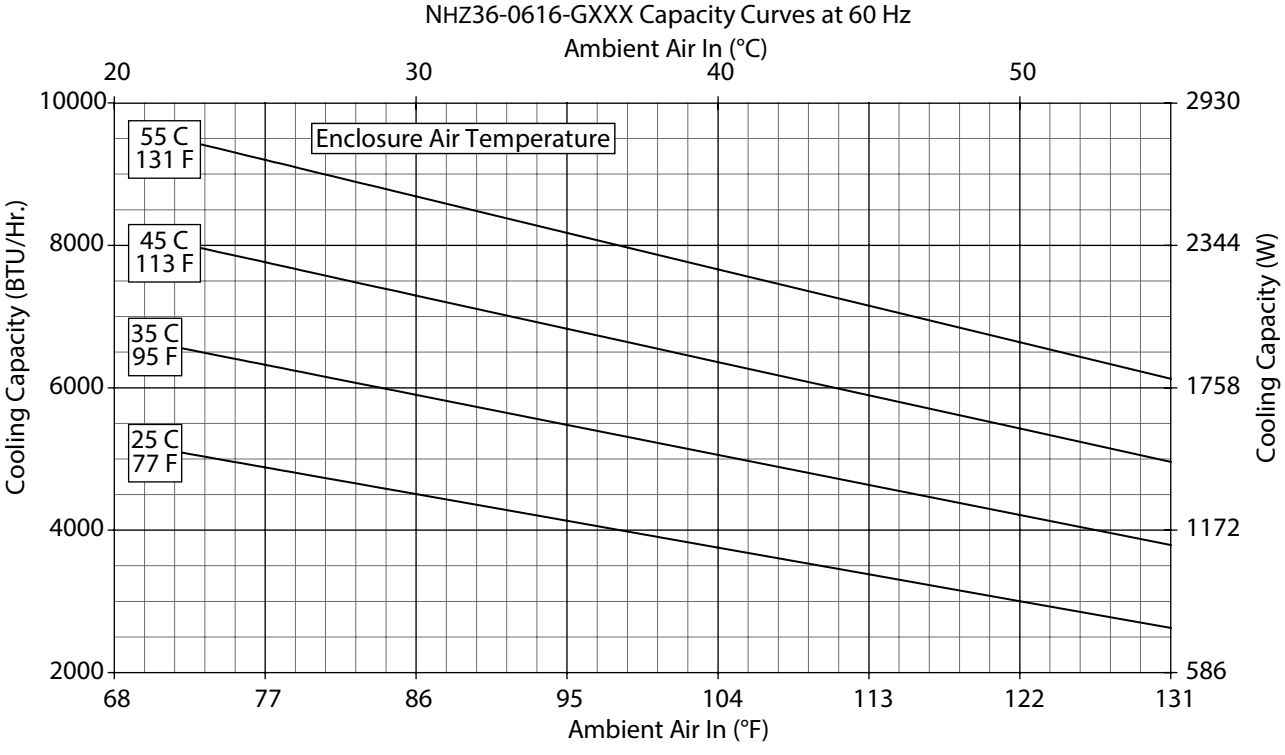
Performance Data **NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)**

CATALOG NUMBER						
Painted Galvanized Steel Type 4	NHZ360616G300	NHZ360626G300	NHZ360646G300	NHZ360816G300	NHZ360826G300	NHZ360846G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ360616G360	NHZ360626G360	NHZ360646G360	NHZ360816G360	NHZ360826G360	NHZ360846G360
Stainless Steel Type 4X	NHZ360616G400	NHZ360626G400	NHZ360646G400	NHZ360816G400	NHZ360826G400	NHZ360846G400
Stainless Steel Type 4X with Remote Access Control*	NHZ360616G460	NHZ360626G460	NHZ360646G460	NHZ360816G460	NHZ360826G460	NHZ360846G460
Stainless Steel Type 4X Offshore	NHZ360616G500	NHZ360626G500	NHZ360646G500	NHZ360816G500	NHZ360826G500	NHZ360846G500
COOLING PERFORMANCE						
Nominal:						
BTUs/Hr.	**5400 / 6000**	**5400 / 6000**	**5400 / 6000**	**8250 / 8500**	**8250 / 8500**	**8250 / 8500**
Watts	**1581 / 1757**	**1581 / 1757**	**1581 / 1757**	**2416 / 2489**	**2416 / 2489**	**2416 / 2489**
At 131 F / 131 F (55 C / 55 C):						
BTU/Hr. (50 / 60 Hz)	5585 / 6180	5469 / 5965	5300 / 6089	8213 / 8453	7874 / 8063	7777 / 8166
Watts (50 / 60 Hz)	1637 / 1811	1603 / 1748	1553 / 1785	2405 / 2475	2306 / 2361	2277 / 2391
At 95 F / 95 F (35 C / 35 C):						
BTU/Hr. (50 /60 Hz)	4909 / 5485	5159 / 5621	5572 / 6026	7028 / 7626	6660 / 7411	6877 / 7525
Watts (50 / 60 Hz)	1439 / 1607	1512 / 1647	1633 / 1766	2058 / 2233	1950 / 2170	2014 / 2203
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	20 / 567	22 / 624	16 / 454	36 / 1021	36 / 1021	36 / 1021
Operating Temperature Range:						
Maximum (°F / °C)	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / M^3/Hr)	251 / 426	250 / 425	250 / 425	250 / 425	245 / 416	243 / 413
External loop 50 Hz (CFM / M^3/Hr)	284 / 483	338 / 574	338 / 574	313 / 532	347 / 589	365 / 620
Internal loop 60 Hz (CFM / M^3/Hr)	261 / 443	261 / 443	261 / 443	263 / 447	258 / 439	254 / 432
External loop 60 Hz (CFM / M^3/Hr)	311 / 528	356 / 605	356 / 605	338 / 574	382 / 648	394 / 669
ELECTRICAL DATA						
Rated Voltage	115	230	400 / 460 3~	115	230	400 / 460 3~
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	911 / 1108	908 / 1073	691 / 783	1206 / 1422	1265 / 1403	572 / 628
Max. Nominal Current (Amps at 50 / 60 Hz)	9.1 / 10.1	4.5 / 4.7	1.7 / 1.8	11.2 / 12.4	5.5/6.2	3.0 / 3.4
Starting Current (Amps)	39.2	23	8.1	48.3	27	16
Agency Approvals	cUL Listed CE Others available upon request					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 4, 4X Standard					
CONTROLLER						
Description	Digital Controller					
Controller Location	Enclosure Side					
Factory Controller Setting (°F / °C)	80 / 27					
SOUND LEVEL						
At 1.5 Meters	66.9 dBA	66.7 dBA	68.2 dBA	66.0 dBA	66.0 dBA	66.0 dBA
UNIT CONSTRUCTION						
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
UNIT DIMENSIONS						
Height (in / mm)	36.00 / 914.4					
Width (in / mm)	11.50 / 292.1					
Depth (in / mm)	14.00 / 355.6					
Weight (lb / kg)	100 / 45	100 / 45	104 / 47	106 / 48	106 / 48	114 / 52

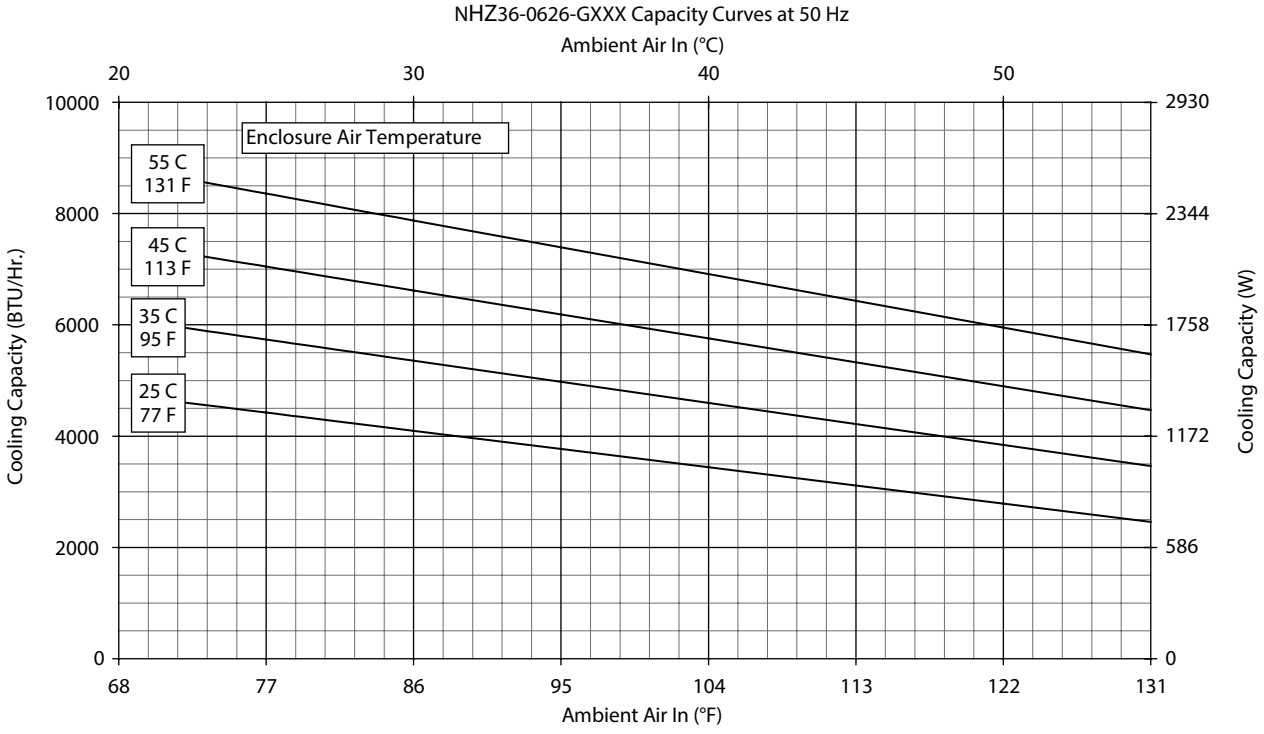
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

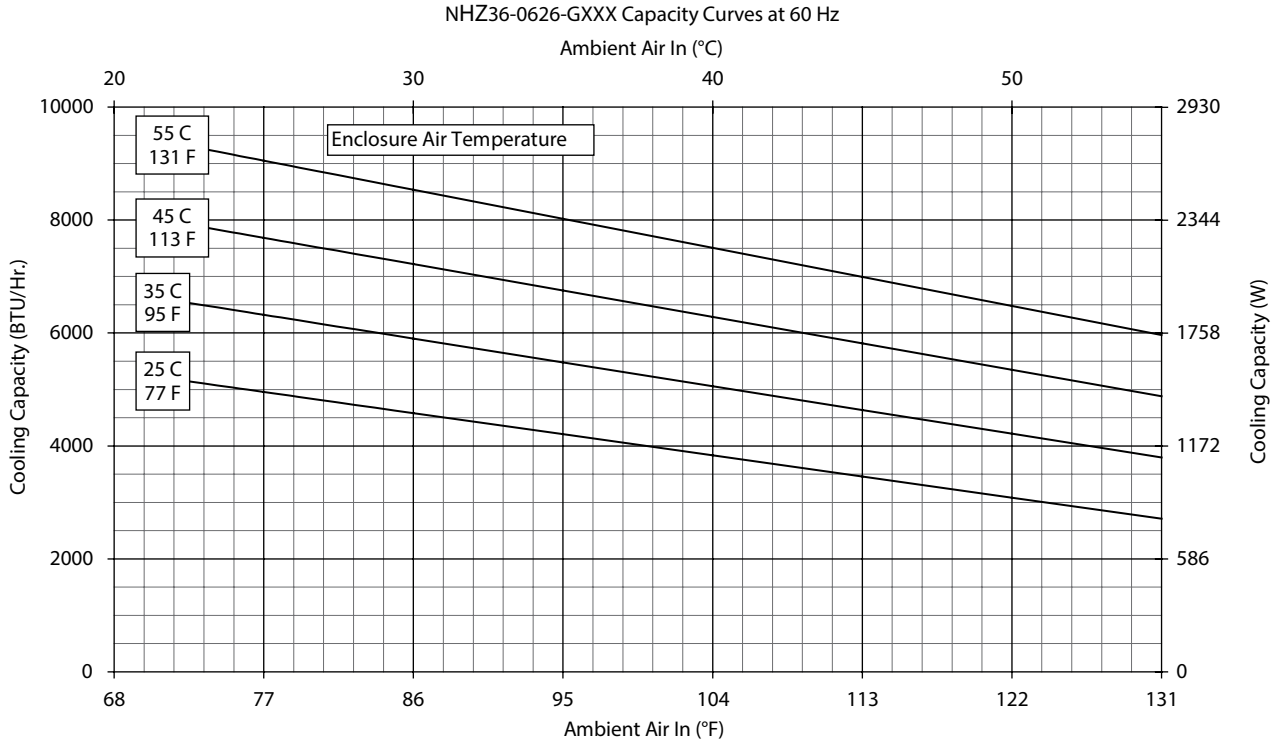
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)





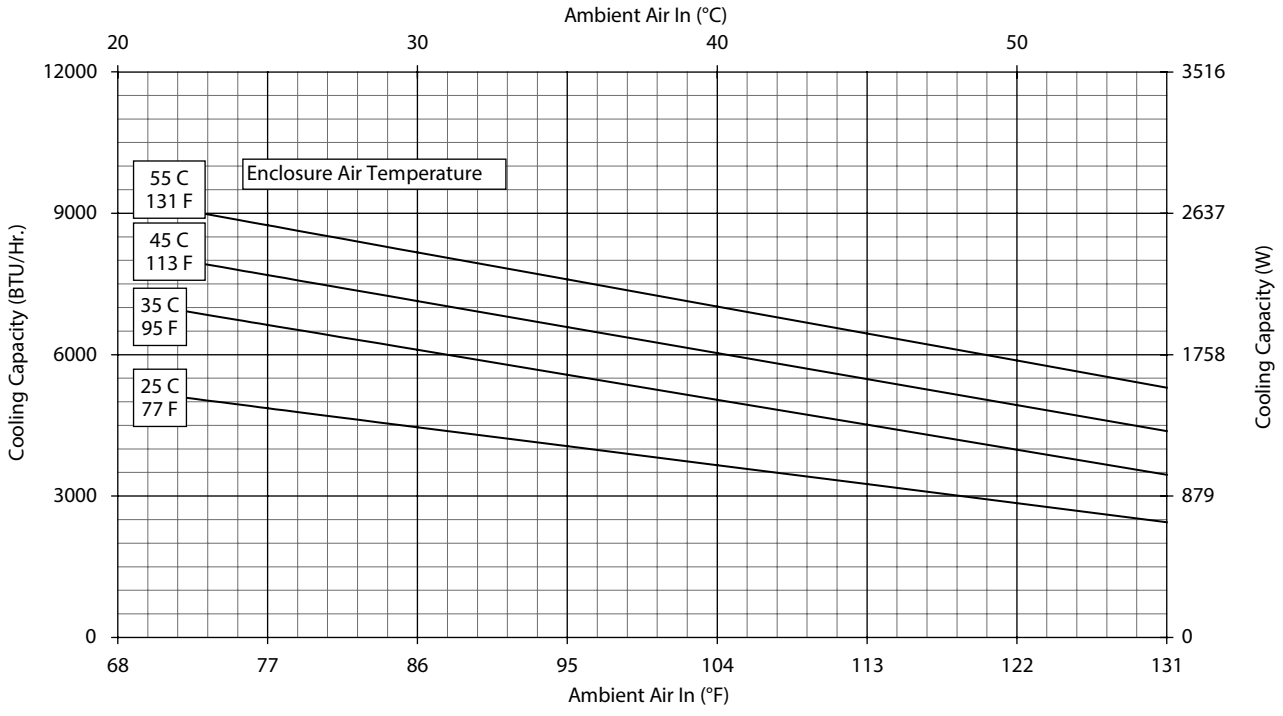
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)



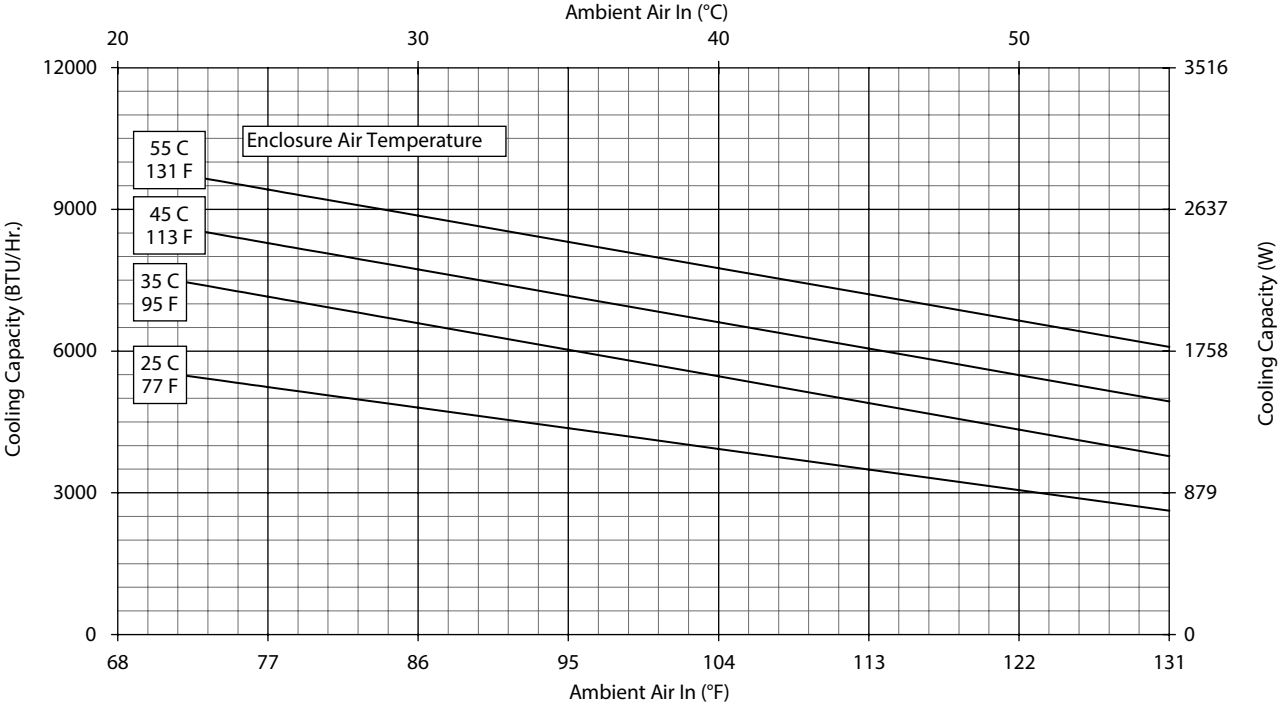


Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

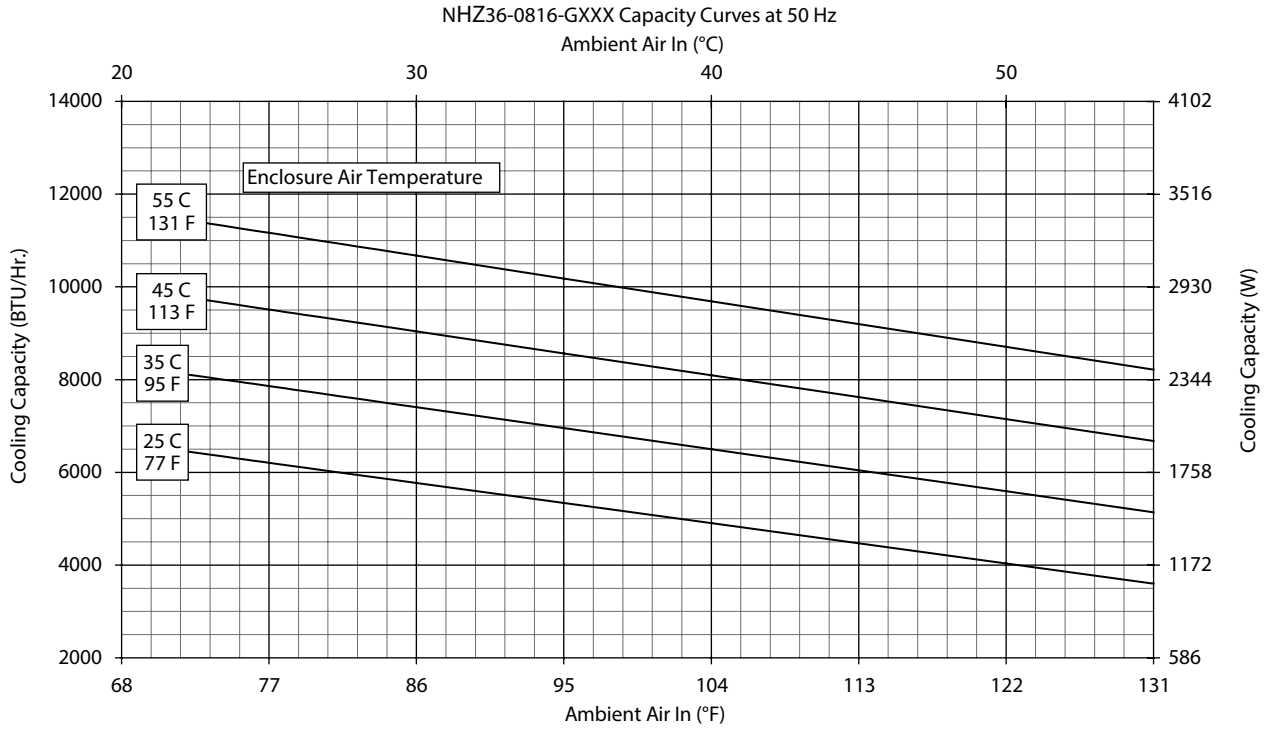
NHZ36-0646-GXXX Capacity Curves at 50 Hz

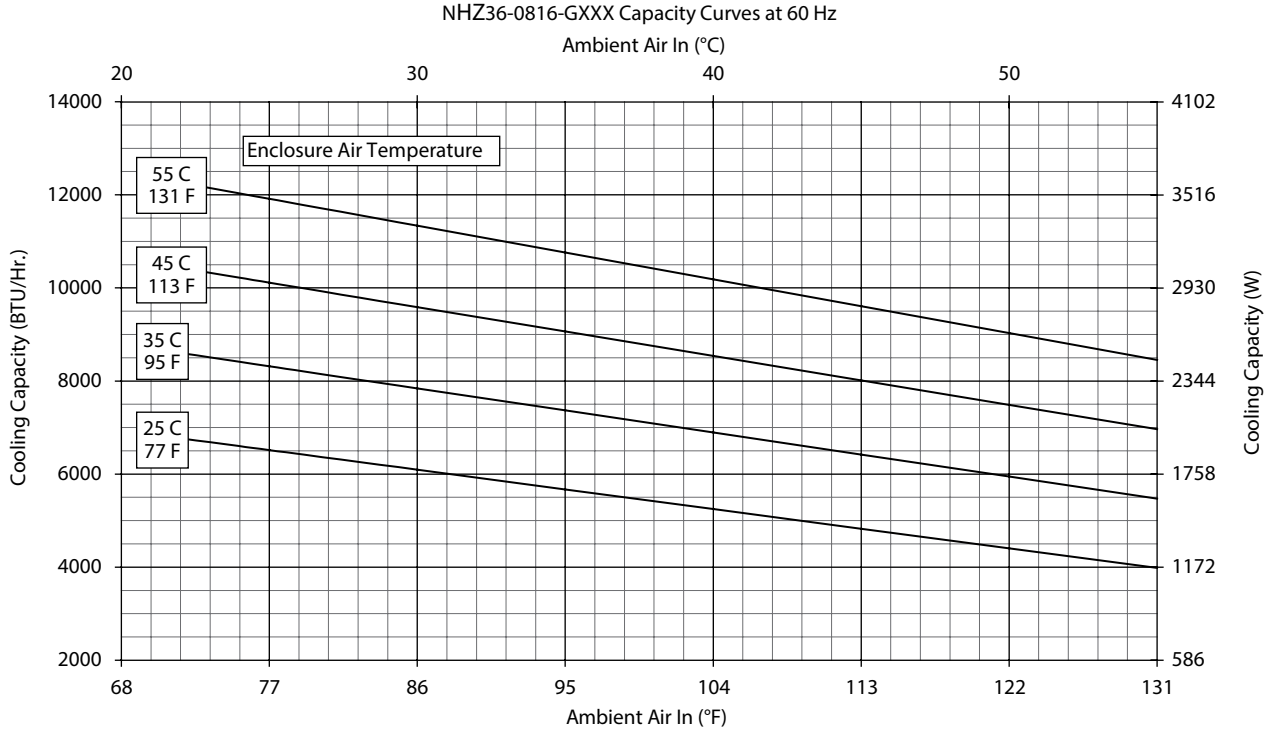


NHZ36-0646-GXXX Capacity Curves at 60 Hz

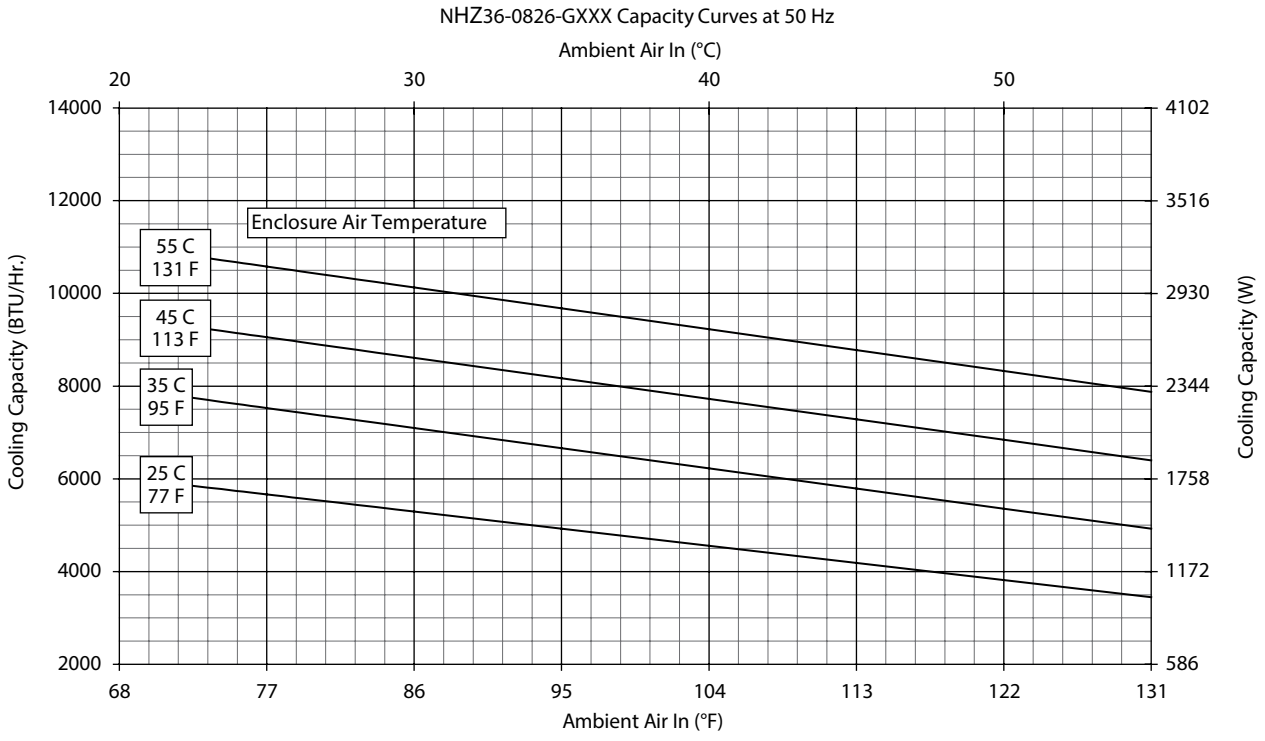


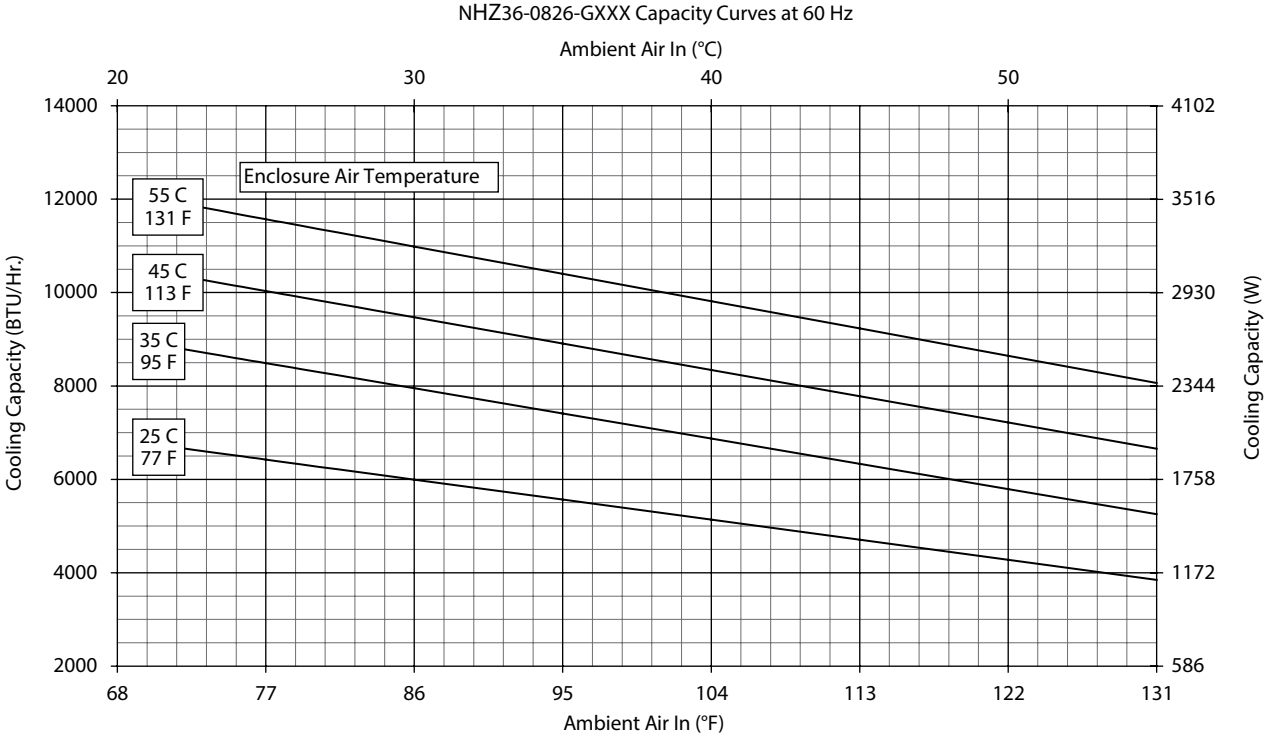
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



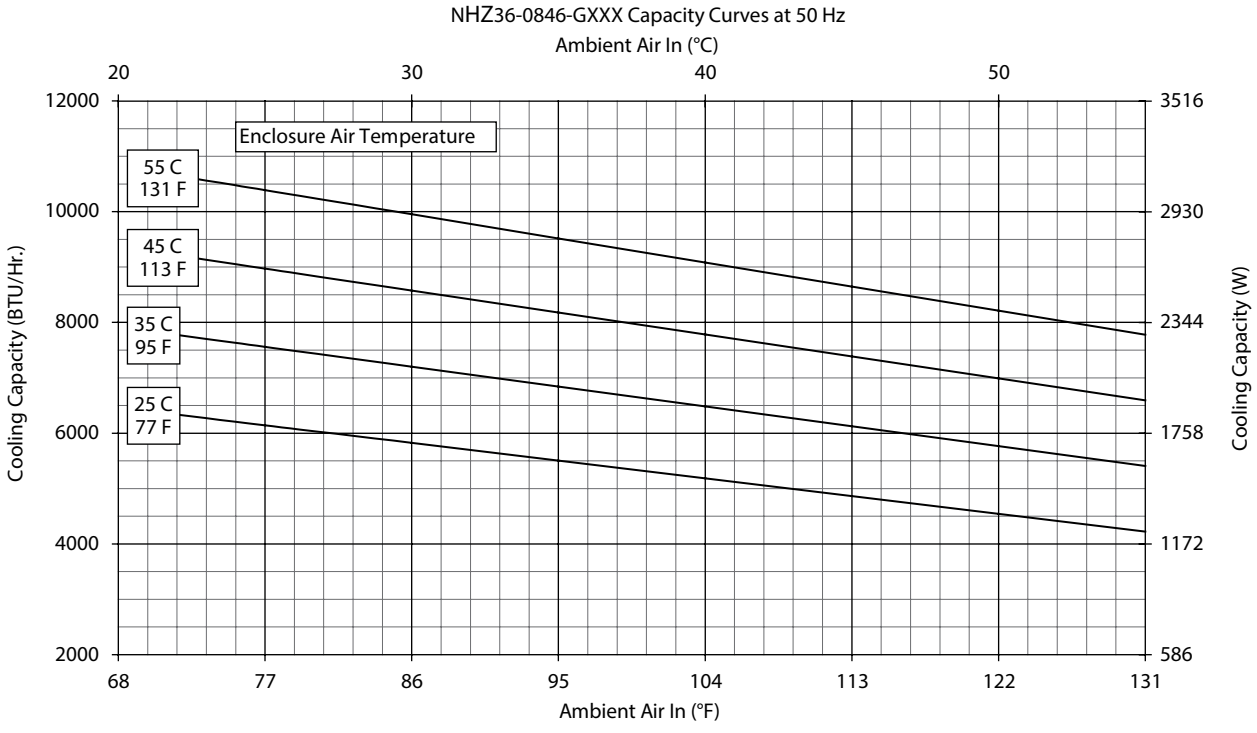


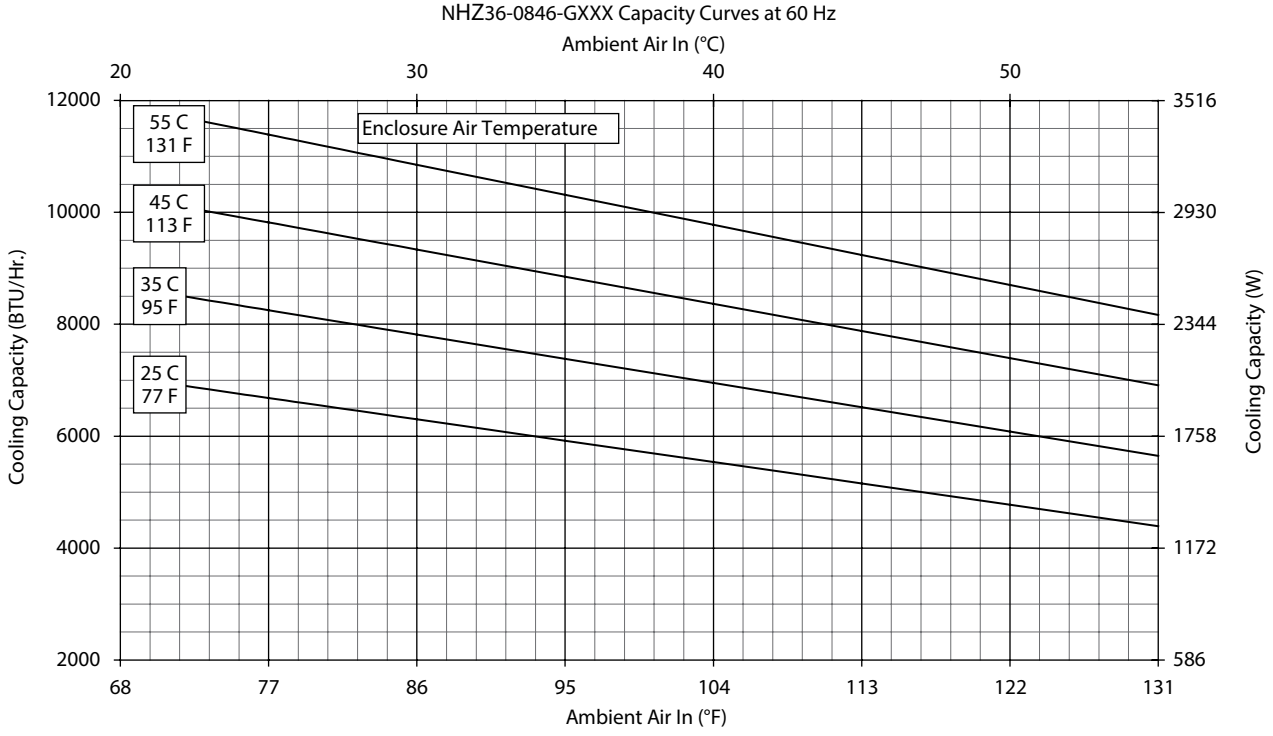
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



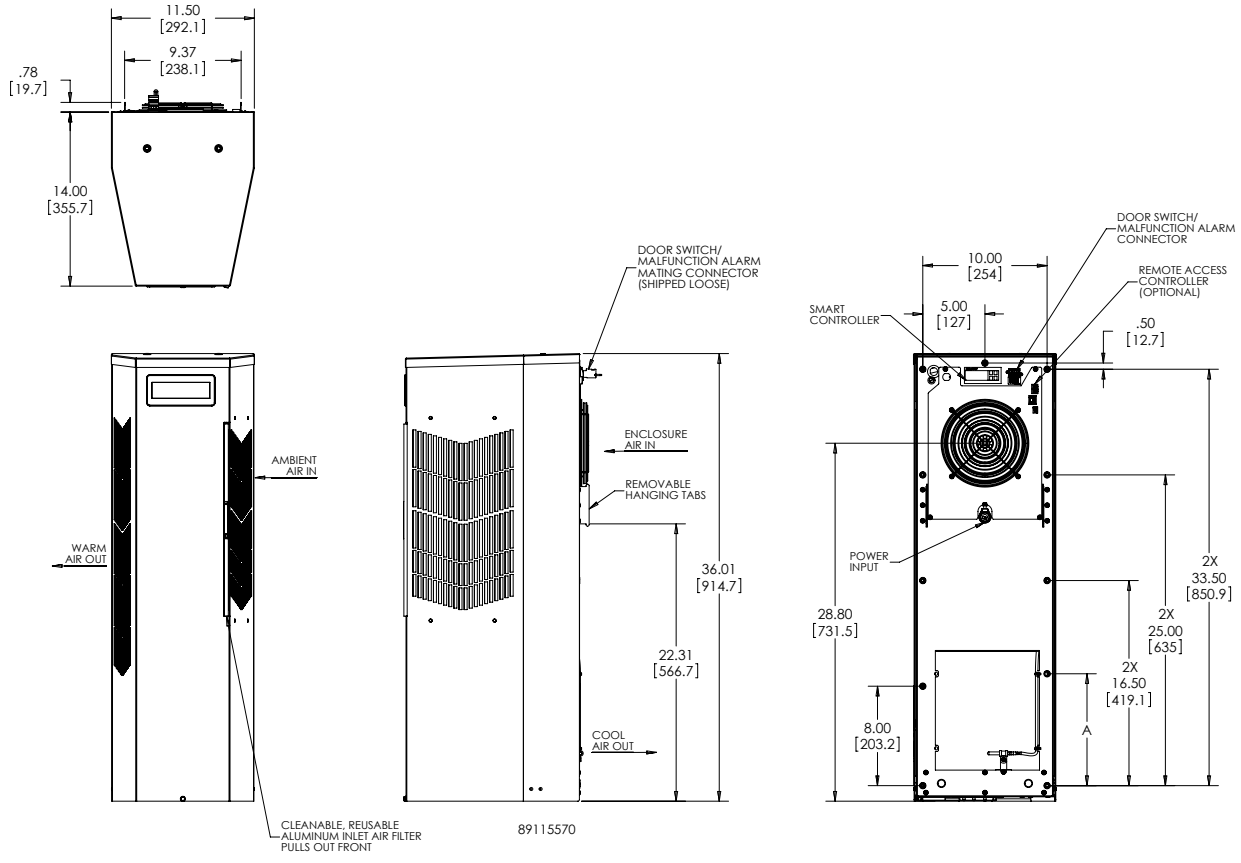


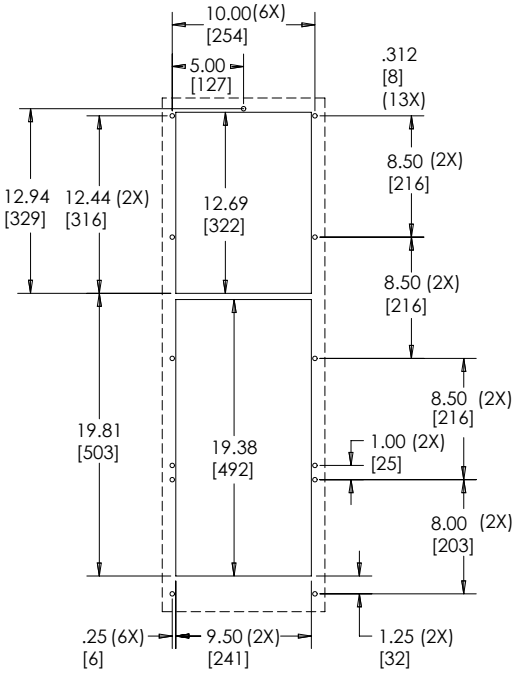
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)





NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)





Cutout Dimensions

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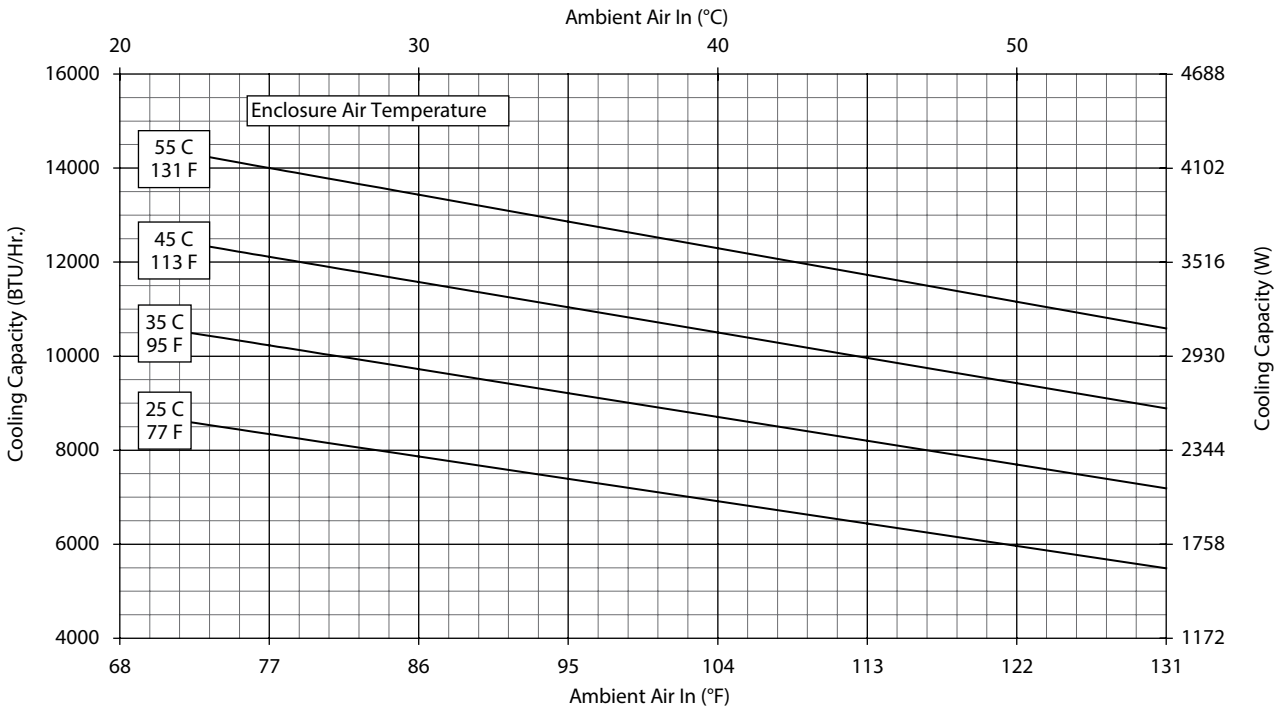
Performance Data **NHZ43 11000 BTU/Hr. (3223 Watt)**

CATALOG NUMBER			
Painted Galvanized Steel Type 4	NHZ431216G300	NHZ431226G300	NHZ431246G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ431216G360	NHZ431226G360	NHZ431246G360
Stainless Steel Type 4X	NHZ431216G400	NHZ431226G400	NHZ431246G400
Stainless Steel Type 4X with Remote Access Control*	NHZ431216G460	NHZ431226G460	NHZ431246G460
Stainless Steel Type 4X Offshore	NHZ431216G500	NHZ431226G500	NHZ431246G500
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	**10400 / 11000**	**10400 / 11000**	**10400 / 11000**
Watts	**3047 / 3223**	**2900 / 3223**	**2900 / 3223**
At 131 F / 131 F (55 C / 55 C):			
BTU/Hr. (50 / 60 Hz)	10588 / 11180	9946 / 11052	10048 / 10797
Watts (50 / 60 Hz)	3103 / 3277	2915 / 3239	2945 / 3164
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 /60 Hz)	9475 / 10023	8967 / 9644	8587 / 9559
Watts (50 / 60 Hz)	2777 / 2937	2628 / 2826	2517 / 2801
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	36 / 1021	38 / 1077	41 / 1162
Operating Temperature Range:			
Maximum (°F / °C)	125 / 52	131 / 55	131 / 55
Minimum (°F / °C)	-40 / -40	-40 / -40	-40 / -40
Air Flow at 0 Static Pressure:			
Internal loop 50 Hz (CFM / M^3/Hr)	239 / 406	259 / 440	254 / 432
External loop 50 Hz (CFM / M^3/Hr)	494 / 839	489 / 831	341 / 579
Internal loop 60 Hz (CFM / M^3/Hr)	250 / 425	267 / 454	260 / 442
External loop 60 Hz (CFM / M^3/Hr)	528 / 897	525 / 892	564 / 958
ELECTRICAL DATA			
Rated Voltage	115	230	400 / 460 3~
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Operating Range	+/-10%	+/-10%	+/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	1620 / 2061	1802 / 2446	1294 / 1421
Max. Nominal Current (Amps at 50 / 60 Hz)	15.1 / 18.2	9.0 / 9.1	3.4 / 3.5
Starting Current (Amps)	57	38	16
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 4, 4X Standard	
CONTROLLER			
Description		Digital Controller	
Controller Location		Enclosure Side	
Factory Controller Setting (°F / °C)		80 / 27	
SOUND LEVEL			
At 1.5 Meters	68.4 dBA	68.4 dBA	69.6 dBA
UNIT CONSTRUCTION			
Material		Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
UNIT DIMENSIONS			
Height (in / mm)		43.00 / 1092.2	
Width (in / mm)		11.50 / 292.1	
Depth (in / mm)		14.00 / 355.6	
Weight (lb / kg)	127/57.6	127/57.6	138/62.6

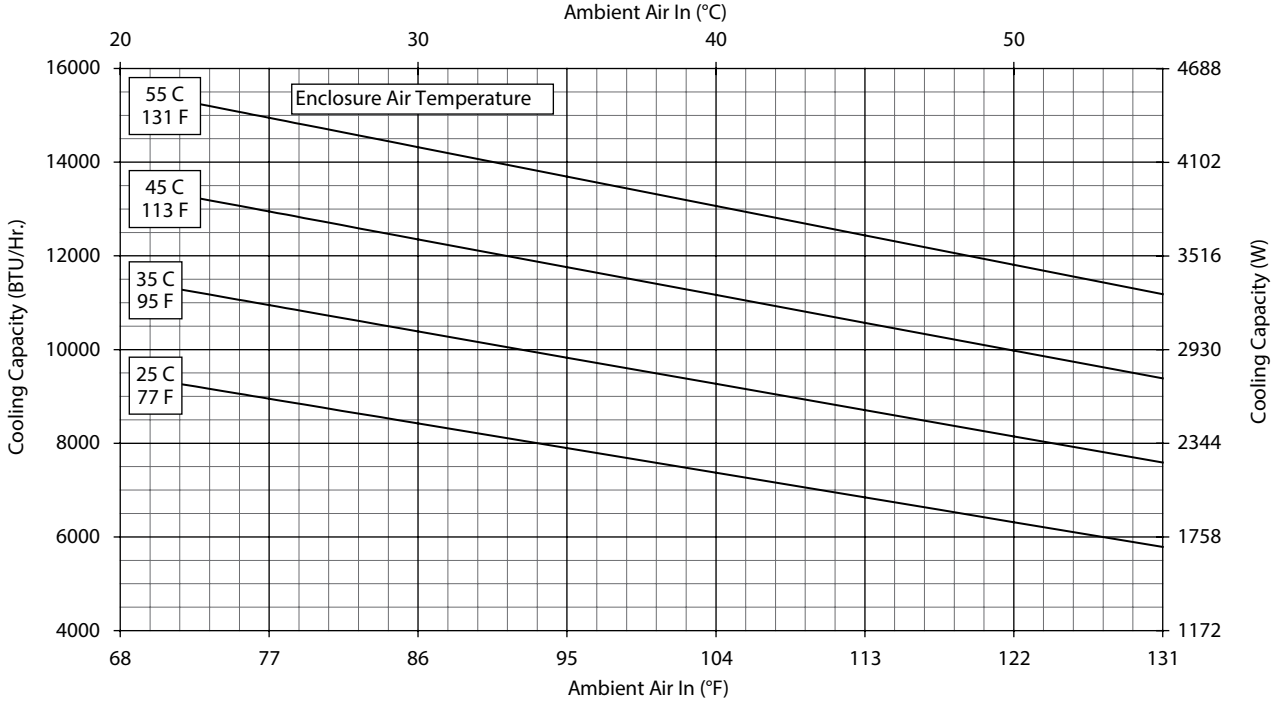
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)

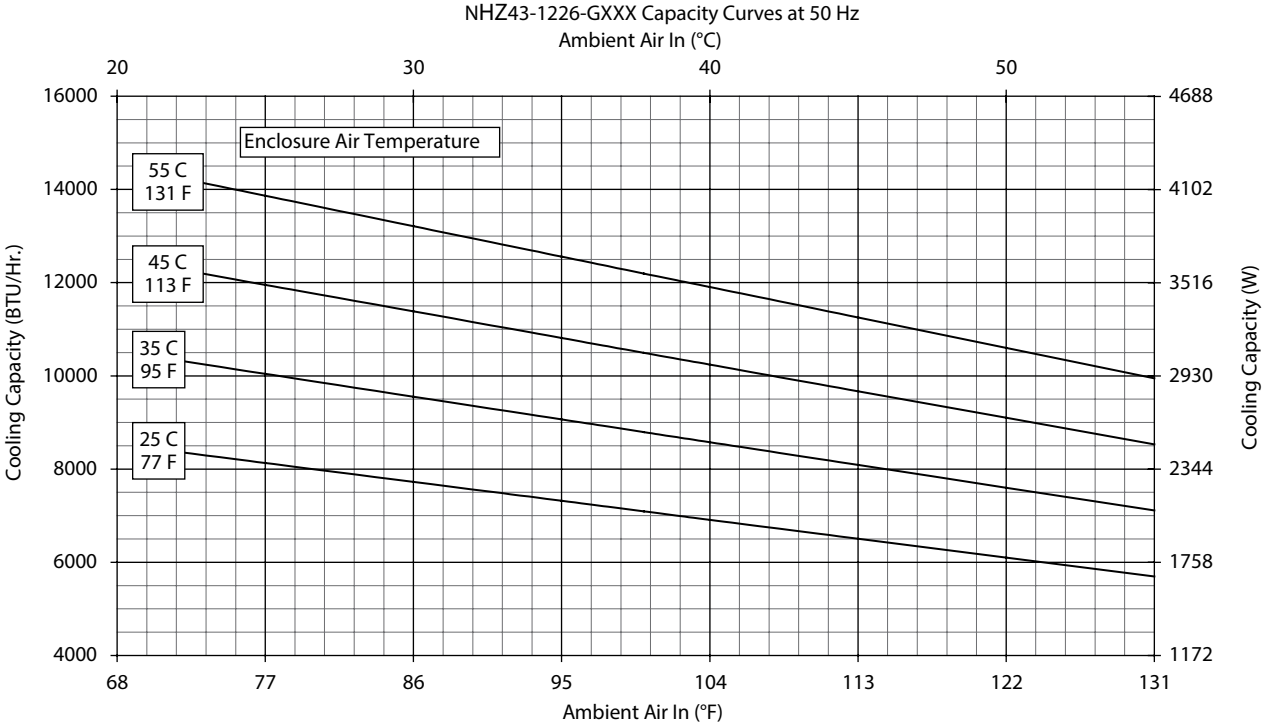
NHZ43-1216-GXXX Capacity Curves at 50 Hz

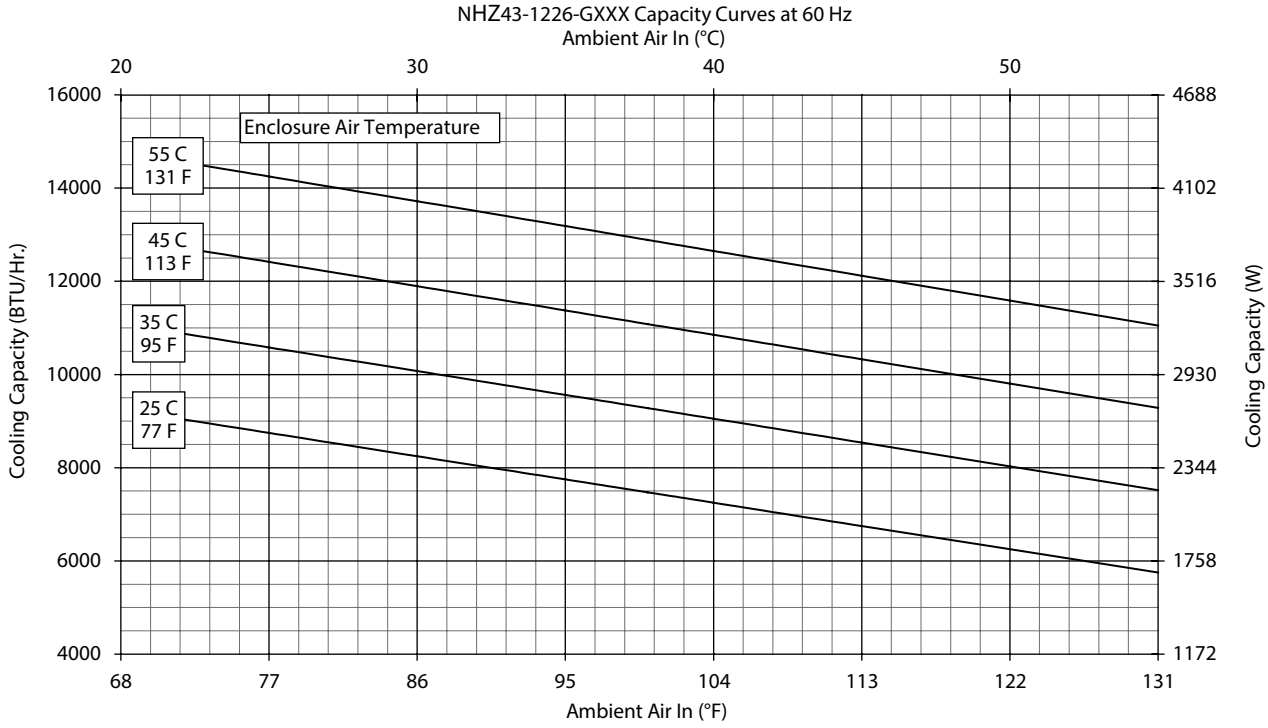


NHZ43-1216-GXXX Capacity Curves at 60 Hz

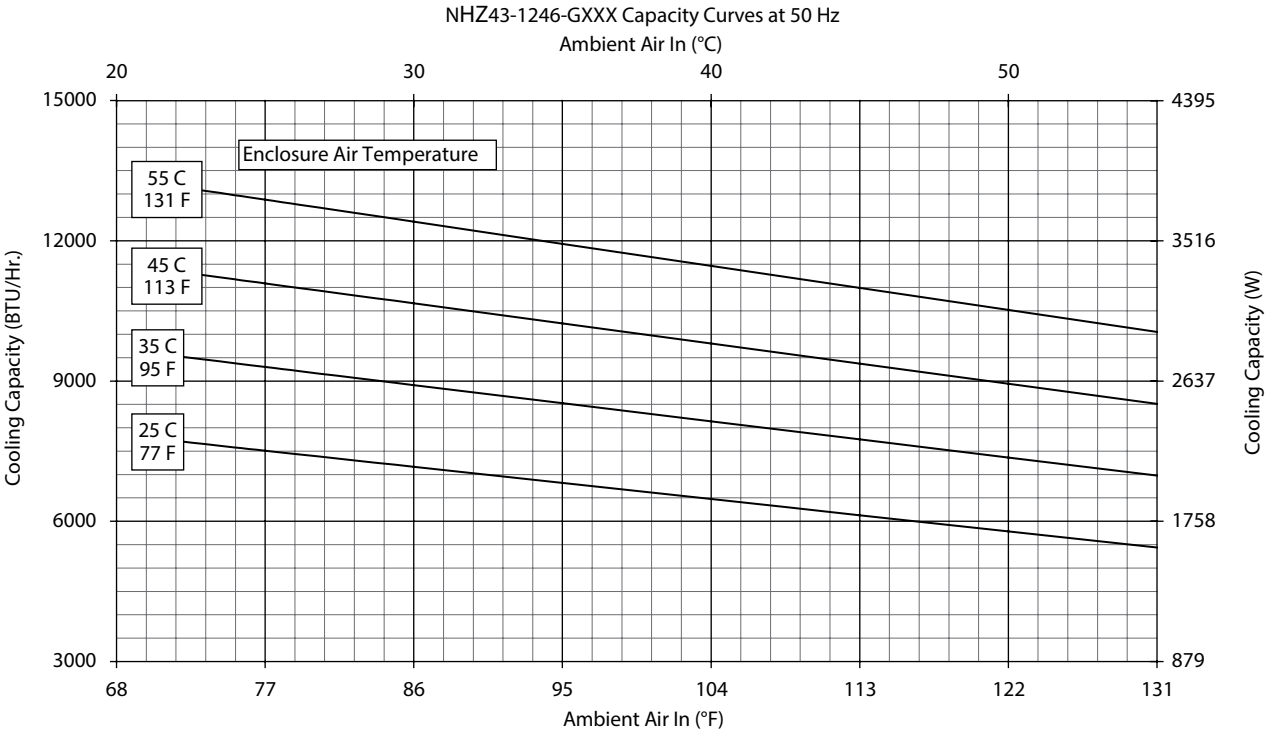


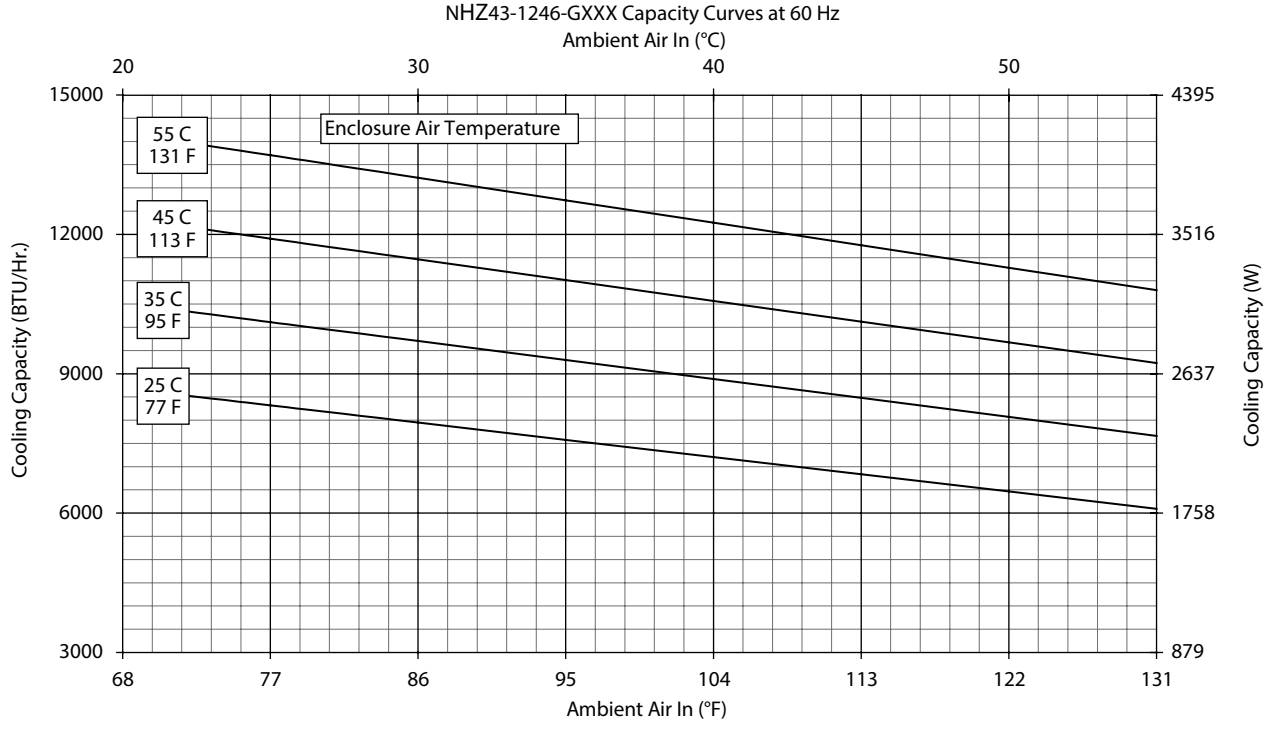
Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)



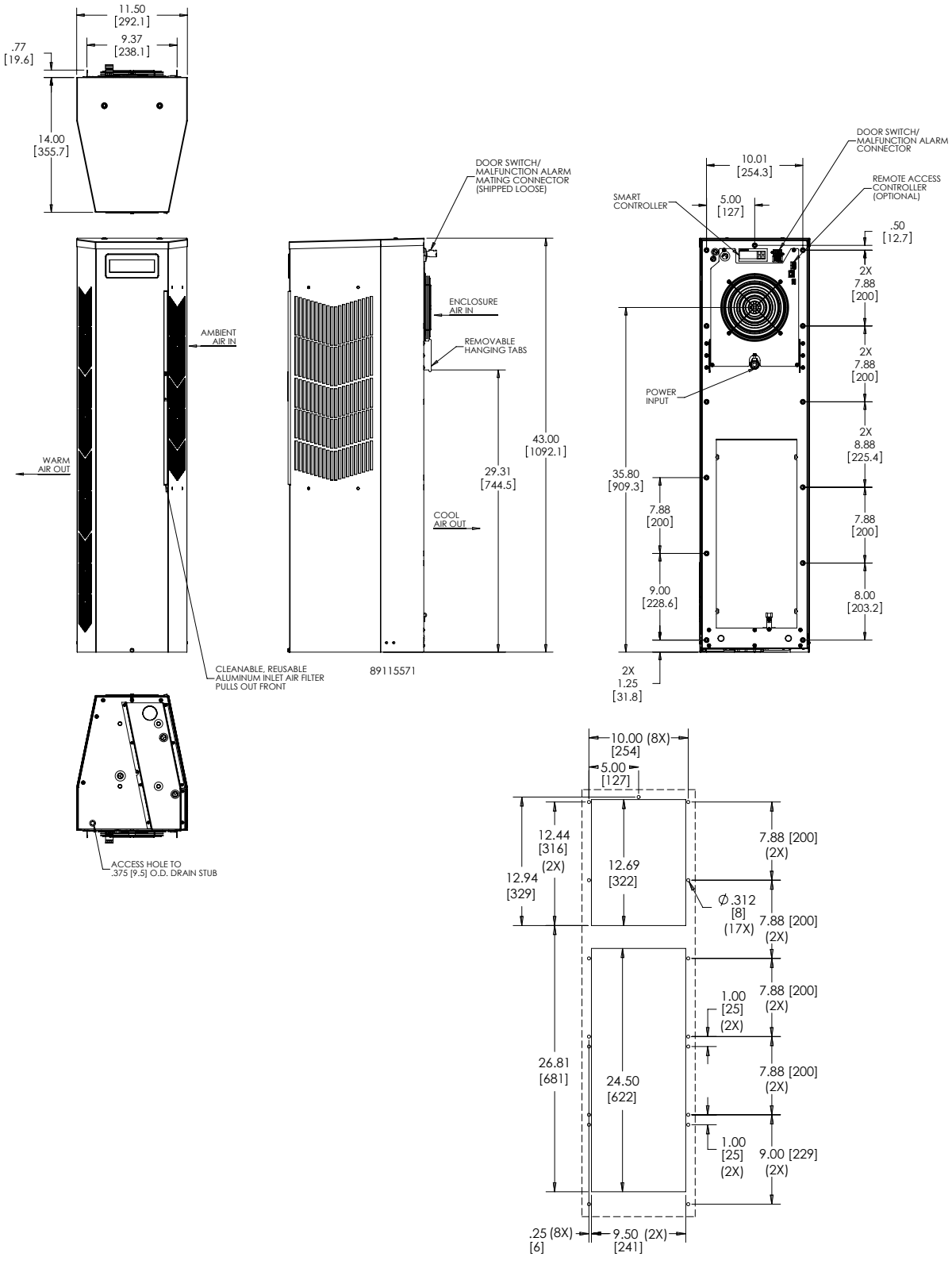


Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)





NHZ43 11000 BTU/Hr. (3223 Watt)



CUTOUT INSTRUCTIONS

Visit Hoffman.nVent.com to download 2D and 3D CAD drawings into the overall design of your electrical system.

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HAZARDOUS LOCATION HEATERS AND THERMOSTATS

INDUSTRY STANDARDS

CE
cCSAus
See additional certifications in product tables.

APPLICATION

Designed for use in hazardous locations where electrical components require protection from cold freezing temperatures, condensation and corrosion.

SPECIFICATIONS

- 50W, 80W, 200W, 300W, 400W and 600W models available
- Provides freeze protection down to -76 F / -60 C
- Conductive and Convection heating types available
- 50W and 80W models can be mounted directly to manifolds, measuring or analyzing instruments, control valves, and similar equipment
- 200W, 300W, 400W, 600W models are finned heaters that heat the area by transferring the heat from the heater to surrounding air, creating a convection current.
- Two thermostat options available with a 50 F / 10 C or 68 F / 20 C set point

FINISH

- Black Anodized Aluminum

Performance Data **50W and 80W Hazardous Location Heaters**

CATALOG NUMBERS	DAHHL501AC	DAHHL801AC
HEATING PERFORMANCE		
Watts	50	80
Heating Type	Conductive	Conductive
Power Regulation	Self Limiting	Self Limiting
HAZARDOUS LOCATION CERTIFICATIONS		
Agency Approvals	ATEX, IECEx, CE, cCSAus	ATEX, IECEx, CE, cCSAus
ATEX / IECEx Certification	PTB 02 ATEX 1116 X IECEx PTB 07.0055X II 2 G Ex db IIC T4 II 2 D Ex tb IIIC T135°C	PTB 02 ATEX 1116 X IECEx PTB 07.0055X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T4 Class II Div 1 Groups E,F,G	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G
ELECTRICAL DATA		
Rated Voltage (VAC or VDC)	110 - 265	110 - 265
Operating Range		
Maximum (F/C)	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60
UNIT CONSTRUCTION		
Material	Black, anodized, seawater-proof aluminium	
ACCESSORIES		
Thermostat*	HLTSTAT10C, HLTSTAT20C	
UNIT DIMENSIONS		
Height (in./mm)	3.5/90	3.5/90
Width (in./mm)	1.6/40	1.6/40
Depth (in./mm)	1.2/30	1.2/30
Weight (lb./kg)	1.1/.50	1.1/.50

* Thermostats sold separately as an accessory.

Performance Data **200W, 300W, 400W, 600W Hazardous Location Heaters**

CATALOG NUMBERS	DAHHL200AC	DAHHL300AC	DAHHL4001A	DAHHL4002A	DAHHL6001A	DAHHL6002A
HEATING PERFORMANCE						
Watts	200	300	400	400	600	600
Heating Type	Convection	Convection	Convection	Convection	Convection	Convection
Power Regulation	Self Limiting	Self Limiting	Constant Power	Constant Power	Constant Power	Constant Power
HAZARDOUS LOCATION CERTIFICATIONS						
Agency Approvals	ATEX, IECEx, CE, cCSAus		ATEX, IECEx, CE, cCSAus		ATEX, IECEx, CE, cCSAus	
ATEX / IECEx Certification	PTB 02 ATEX 1116X IECEx PTB 07.0055 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C		PTB 02 ATEX 1041X IECEx PTB 07.0052 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C		PTB 02 ATEX 1041X IECEx PTB 07.0052 X II 2 G Ex db IIC T3 II 2 D Ex tb IIIC T200°C	
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G		CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G		CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T3 Class II Div 1 Groups E,F,G	
ELECTRICAL DATA						
Rated Voltage (VAC or VDC)	110 - 265	110 - 265	108 - 132	207 -253	108 - 132	207 -253
Operating Range						
Maximum (F/C)	302/150	302/150	302/150	302/150	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60	-76/-60	-76/-60	-76/-60	-76/-60
UNIT CONSTRUCTION						
Material	Black, anodized, seawater-proof aluminium					
ACCESSORIES						
Thermostat*	HLTSTAT10C, HLTSTAT20C					
UNIT DIMENSIONS						
Height (in./mm)	8.9/225	12.8/325	8.9/225	8.9/225	12.8/325	12.8/325
Width (in./mm)	9.0/229	9.0/229	9.0/229	9.0/229	9.0/229	9.0/229
Depth (in./mm)	2.4/60	2.4/60	2.4/60	2.4/60	2.4/60	2.4/60
Weight (lb./kg)	8.7/3.95	12.5/5.65	8.7/3.95	8.7/3.95	12.5/5.65	12.5/5.65

* A thermostat is required for 400W and 600W models. It is sold separately as an accessory.

Performance Data **Hazardous Location Thermostats**

CATALOG NUMBERS	HLTSTAT10C	HLTSTAT20C
HAZARDOUS LOCATION CERTIFICATIONS		
Agency Approvals	ATEX, IECEx, CE, cCSAus	ATEX, IECEx, CE, cCSAus
ATEX / IECEx Certification	PTB 03 ATEX 1136 X IECEx PTB 07.0054 II 2 G Ex db IIC T6 II 2 D Ex tb IIIC T80°C	PTB 03 ATEX 1136 X IECEx PTB 07.0054 II 2 G Ex db IIC T6 II 2 D Ex tb IIIC T80°C
NEC cCSAus Certification	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T6 Class II Div 1 Groups E,F,G	CSA 1655545 (LR43674) Class I Zone 1 and 2 Group IIC Class I Div 1 Groups A,B,C,D T6 Class II Div 1 Groups E,F,G
ELECTRICAL DATA		
Rated Voltage (VAC or VDC)	0-275	0-275
Max. Rated Current (Amps)	10	10
Operating Range		
Maximum (F/C)	302/150	302/150
Minimum (F/C)	-76/-60	-76/-60
Thermostats Nominal Setpoints		
Switch-on Temperature (°F/°C)	50 F/10 C	68 F/20 C
Switch-off Temperature (°F/°C)	64 F/18 C	82 F/28 C
UNIT CONSTRUCTION		
Material	Black, anodized, seawater-proof aluminium	
UNIT DIMENSIONS		
Height (in./mm)	1.10/28	1.10/28
Width (in./mm)	.90/24	.90/24
Depth (in./mm)	4.30/108	4.30/108
Weight (lb./kg)	.50/.20	.50/.20

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HAZARDOUS LOCATION HEATER (100 WATT)

INDUSTRY STANDARDS

CE
Conformity Certificate LCIE (Laboratoire Central des Industries Electriques) LCIE 01 ATEX 6073
EEx d IIC T4/II 2 GD, IP6x T135°C
IEC 60529, IP65/I (grounded)

APPLICATION

Designed for use in hazardous locations where electronic components require protection from condensation and corrosion, sudden temperature drops and low temperatures.

FEATURES

- Maintenance-free
- High-performance heating cartridge (element)
- Large convection surface
- Extruded aluminum heat sink
- DIN clip for mounting
- Connection cable: Si HF-JZ 3 x AWG 18 x 3.3 ft. (0.75 mm² x 1 m)
- Operating voltage 110-120 VAC

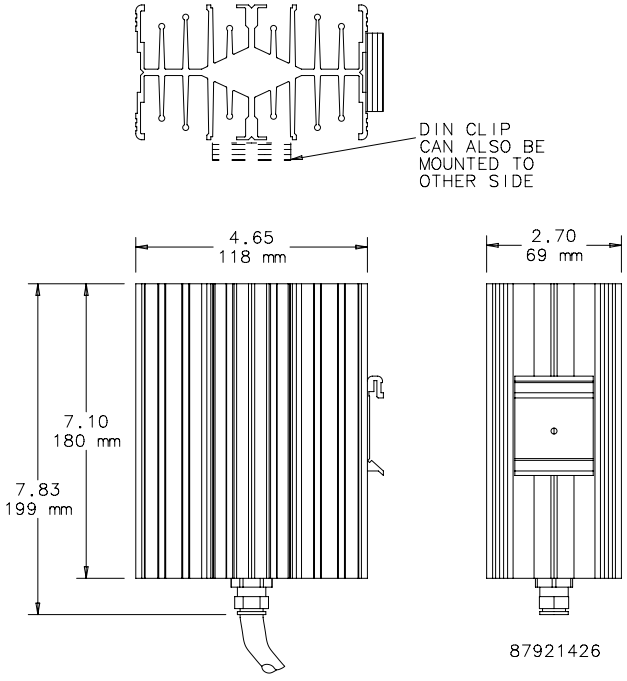
FINISH

Black anodized

Performance Data

CATALOG NUMBERS	
	HLHEAT100
DESIGN DATA	
Heating Power (Watts)	100
Surface Temperature T4 (°F/°C) *	275/135
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in. / mm)	7.10/180 x 4.65/118 x 2.70/69

* Surface temperature when mounted vertically.



HAZARDOUS LOCATION THERMOSTAT

APPLICATION

Compact mechanical thermostat for temperature control of heaters or low-temperature alarms in enclosures that are used in explosion-hazardous areas.

FEATURES

- Compact design
- Set temperature
- High switching capacity
- Small hysteresis (switching difference)
- Long service life (greater than 100,000 cycles)
- Can usually be connected directly and switched without the need for additional relays
- Thermostatic bimetallic sensor element
- One-pole contact opens with rising temperature
- Mounting bracket and DIN clip for mounting
- Connection cable: Si HF - JZ 3 x AWG 18 x 3.3 ft. (0.75 mm² x 1 m)

INDUSTRY STANDARDS

CE
Conformity Certificate LCIE (Laboratoire Central des Industries Electriques) LCIE 01 ATEX 6074

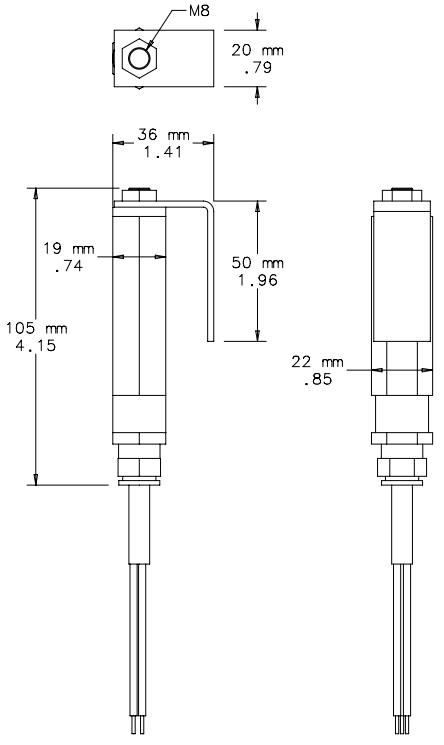
EEx d IIC T6/II 2 GD, IP6x T85 °C
IEC 60529, IP65/1 (grounded)

FINISH

Black anodized aluminum

Performance Data

CATALOG NUMBERS	
	HLTHERMNC
DESIGN DATA	
Maximum Operating Voltage (AC)	250 V
Maximum Operating Voltage (DC)	100 V
Switching Capacity @ 250 VAC	4A resistive; 1A ind. (cos f = 0.6)
Switch Off (Open) Temperature (°F)	77 +/- 6
Switch Off (Open) Temperature (°C)	25 +/- 3K
Switch On (Closed) Temperature below Switch Off Temperature (°F)	7.2 +/- 2
Switch On (Closed) Temperature below Switch Off Temperature (°C)	4 +/- 1K



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CHAPTER 12 ACCESSORIES

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CONCEPT ACCESSORIES

CONCEPT ACCESSORIES
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SEISMIC ACCESSORIES

SEISMIC
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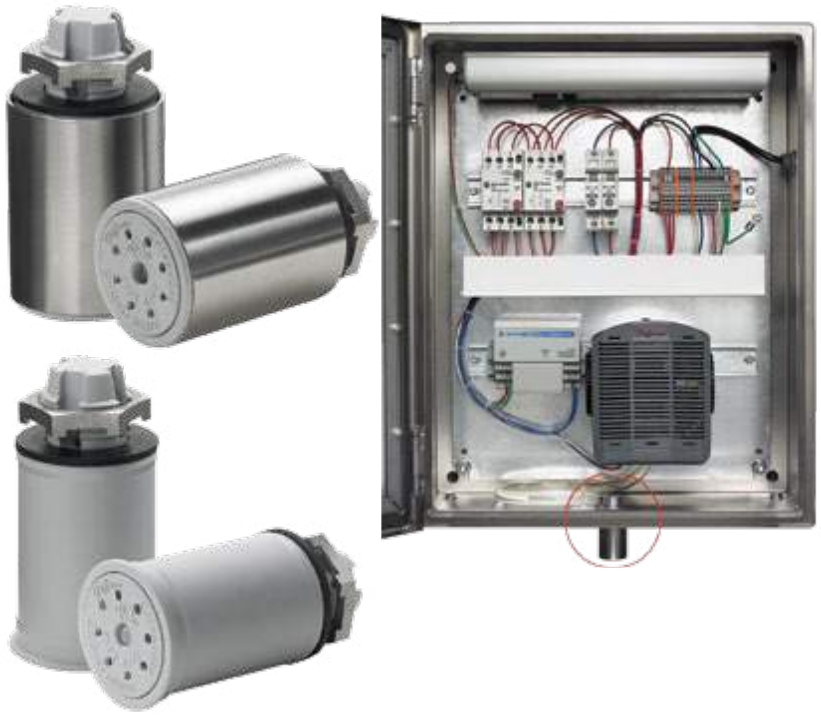
H2OMIT VENT DRAINS, TYPE 4X



INDUSTRY STANDARDS

Maintains UL/cUL Type 4, 4X rating when properly installed on a UL/cUL Type 4 or 4X enclosure.

UL 508A Listed; Type 4, 4X; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 4X; File No. E61997

NEMA/EEMAC Type 4, 4X
IEC 60529, IP66

APPLICATION

H2OMIT Vent Drains allow accumulated water to drain out the bottom of an enclosure. The UL-approved vent drains also function as an air pressure equalizer, reducing the harmful effects of temperature-induced vacuums that could pull water and moisture into the enclosure.

FEATURES

- Uses gravity to remove collected liquids
- One-way mechanical shut-off when pressure is equalized prevents water and contaminants from entering the enclosure
- Helps reduce corrosion that can limit the life of internal electrical and electronic components
- Installs in a 7/8-in. hole in the bottom of enclosure with provided nut or in a 1/2-in. NPT/NPS threaded conduit hub
- Installs in the bottom of mild steel, aluminum, stainless steel or non-metallic enclosures
- Maintains enclosure's UL Type rating when properly installed

SPECIFICATIONS

Stainless Steel Vent Drain

- Corrosion-resistant polyester material with a Type 304 stainless steel sleeve
- 2.00-in. long x 1.38-in outside diameter

Non-Metallic Drain Vent

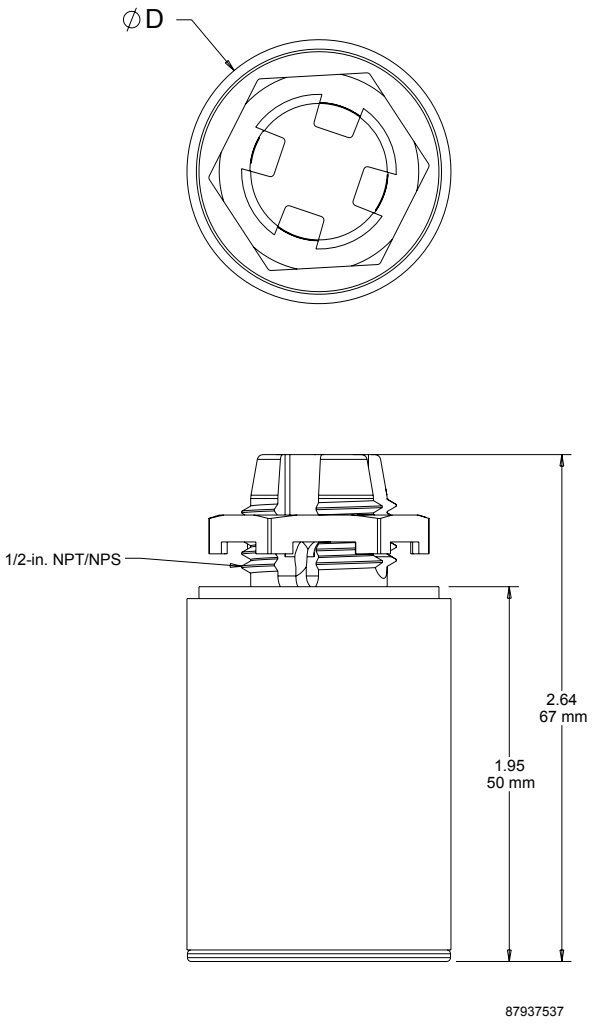
- Corrosion-resistant polyester material
- 2.00-in. long x 1.25-in. outside diameter

BULLETIN: H20

Standard Product

Catalog Number	Description	D (in.)	D (mm)	Quantity
AVDR4NM	Non-metallic Vent Drain	1.25	32	1
AVDR4SS4	Stainless Steel Vent Drain	1.38	35	1

H2OMIT Vent Drains



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H2OMIT THERMOELECTRIC DEHUMIDIFIER

INDUSTRY STANDARDS

UL 508A Listed; File No. E61997
cUL Listed per C22.2 No. 14; File No. E61997

CE

APPLICATION

The H2OMIT Thermoelectric Dehumidifier removes moisture from the air within an enclosure, providing an inexpensive yet highly effective way to protect electronic and electrical components from condensation.

FEATURES

- Reduces corrosion that can limit the life of internal electrical and electronic components
- Condenses moisture from internal enclosure air and standing liquids
- Built-in drain provision with plastic hose directs collected moisture to the Vent Drain (sold separately)
- Rotating side air vents direct recirculating air away from critical controls
- Mounts via DIN rail on internal panel or mounts directly onto the inside bottom of enclosure above the Vent Drain (sold separately)
- Can be used in mild steel, aluminum, stainless steel and non-metallic enclosures

SPECIFICATIONS

- High-impact ABS shell
- Operates on 24-Volt DC power
- 4.5 A max. (84 W)
- Runs continuously above 32 F[a] (power supply not included)
- Removes 8 oz. of moisture in 24 hours
- Compact 6.00-in. x 5.50-in. x 5.75-in. design
- One Thermoelectric Dehumidifier includes:
  - Four feet of plastic hose
  - Two hose retainers
  - One double-ended hose retainer
  - Six inches of Velcro®
  - Seven-inch strip of DIN rail
  - Two mounting screws

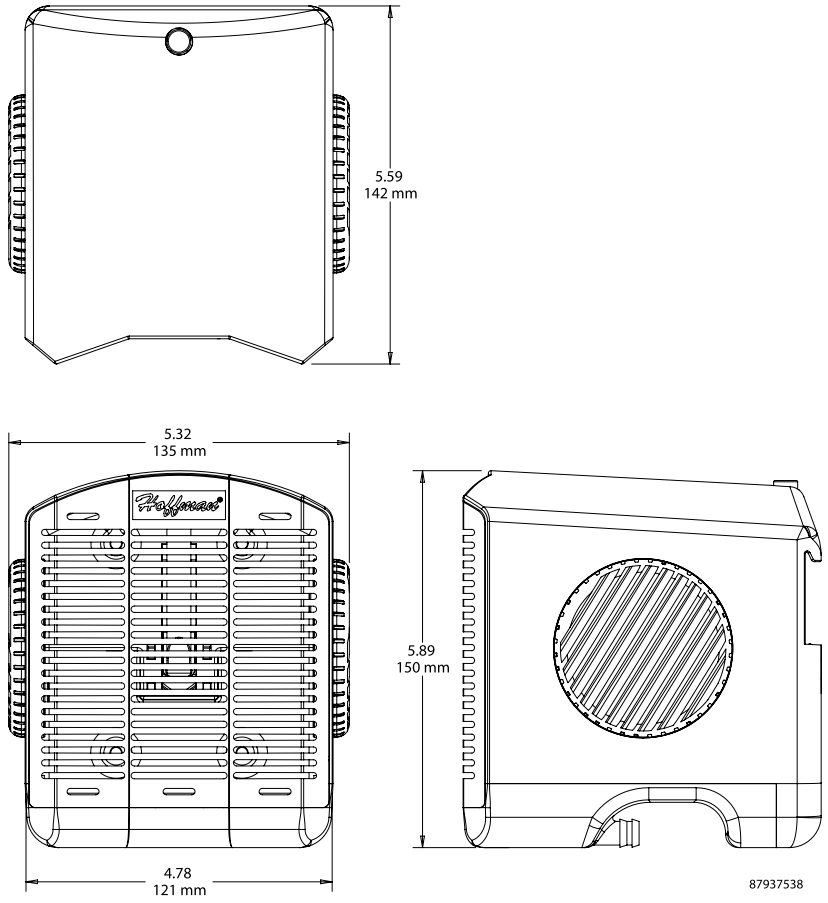
Must be used with UL-certified drain to remove pooled liquid from enclosure.
[a]If continual operation is not desired, a Mechanical Hygrostat (AMHUM) can be wired to the thermoelectric dehumidifier and then set to turn the dehumidifier on at the desired relative humidity.

VELCRO is a trademark of Velcro Industries B.V.

BULLETIN: H20

Standard Product

Catalog Number	Description
H2OMITTER	Thermoelectric Dehumidifier



Dew Point Temperature **Percent Relative Humidity**

Temp. (° F)	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%
110	110	108	106	104	**102**	100	98	95	93	90	87	84	80	76	72	65	60	51	41
105	105	103	101	99	**97**	95	93	91	88	85	83	80	76	72	67	62	55	47	37
100	100	99	97	95	**93**	91	89	86	84	81	78	75	71	67	63	58	52	44	32
95	95	96	92	90	**88**	86	87	81	79	76	73	70	67	63	59	54	48	40	32
90	90	88	87	85	**83**	81	79	76	74	71	68	65	62	59	54	49	43	36	32
85	**85**	**83**	**81**	**80**	**78**	76	74	71	69	67	64	61	58	54	50	45	38	32	—
80	80	78	77	75	73	71	69	67	65	62	59	56	53	50	45	40	35	32	—
75	75	73	72	70	68	66	64	62	60	58	55	52	49	45	41	36	32	—	—
70	70	68	67	65	63	61	59	58	55	53	50	47	44	40	37	32	—	—	—
65	65	63	62	60	59	57	55	53	50	48	45	42	40	36	62	—	—	—	—
60	60	58	57	55	53	52	50	48	45	43	41	38	35	32	—	—	—	—	—
55	55	53	52	50	49	47	45	43	40	38	36	33	32	—	—	—	—	—	—
50	50	48	46	45	44	42	40	38	36	34	32	—	—	—	—	—	—	—	—
45	45	43	42	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—
40	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—
35	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Definition: Dew Point is the temperature at which condensation forms. If the temperature of the enclosure is 85 F and the relative humidity is 80 percent, Dew Point is reached at a temperature of 78 F or below.
This means that moisture vapor will condense on any surface that is below the Dew Point temperature of 78 F.

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STAINLESS STEEL PRESSURE COMPENSATION

INDUSTRY STANDARDS

CE
NEMA Type 4X
IEC/EN 60529, IP66

APPLICATION

Pressure differentials in a tightly sealed enclosure result from heat generated by electrical and electronic equipment within the enclosure and fluctuations of outside ambient temperature. Stainless steel pressure compensation devices provide IP66 protection in corrosive applications requiring slow pressure equalization. For optimal performance, install two plugs diagonally to each other.

FEATURES

- Air permeability = 42 cubic feet/hour (1,200 liters/hour) at a pressure difference of min. 70 mbar
- Easy installation: drill one 1.60-in. (41-mm) diameter hole
- Sealing gasket (Nitrile Buna-N Rubber)

SPECIFICATIONS

- Type 316L stainless steel
- Semipermeable membrane inside the plug filters moisture and dust
- Mounting thread M40 with union nut

FINISH

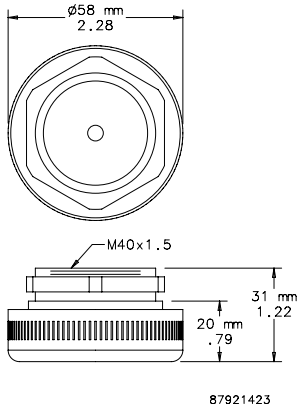
Machined Type 316L stainless steel

BULLETIN: D85

Standard Product

Catalog Number	AxB in./mm	Depth in Enclosure in./mm	Operating/Storage Temperature °F	Operating/Storage Temperature °C
APCDSS6	2.28 x 1.22 58 x 31	0.35 9	-40 to 176	-40 to 80

A dimension = diameter



PRESSURE COMPENSATION DEVICE

INDUSTRY STANDARDS

UL Type 1, 4, 4X; File No. E234324

CE
IEC/EN 60529, IP66

APPLICATION

Pressure differentials in a tightly sealed enclosure result from heat generated by electrical and electronic equipment within the enclosure and fluctuations of outside ambient temperature. Pressure compensation devices provide IP66 protection in applications requiring slow pressure equalization. For optimal performance, install two plugs diagonally to each other.

FEATURES

- Air permeability = 42 cubic feet/hour (1,200 liters/hour) at a pressure difference of min. 70 mbar
- Easy installation: drill one 1.60-in. (41-mm) diameter hole
- Sealing gasket (Nitrile Buna-N Rubber)

SPECIFICATIONS

- Semipermeable membrane inside the plug to filter moisture and dust
- Mounting thread M40 with union nut
- Plastic PA66

FINISH

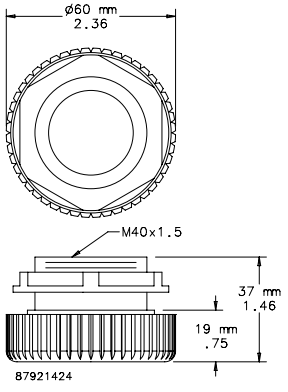
Light-gray plastic. Polymeric material manufactured by DuPont™.
DuPont is the trademark of E. I. duPont de Nemours and Company.

BULLETIN: D85

Standard Product

Catalog Number	Depth in Enclosure in./mm	Operating/Storage Temperature °F	Operating/Storage Temperature °C
APCDABS	0.6 15	-49 to 158	-45 to 70

A dimension = diameter



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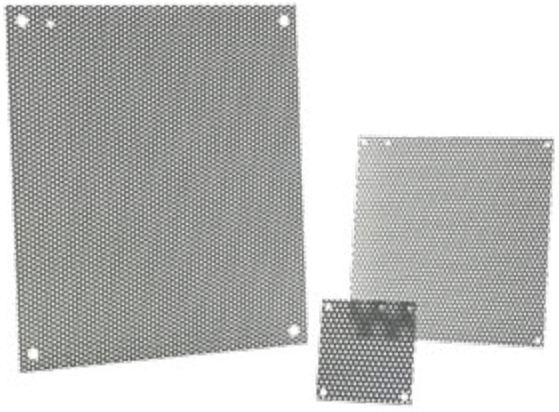
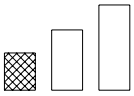
PERFORATED PANELS

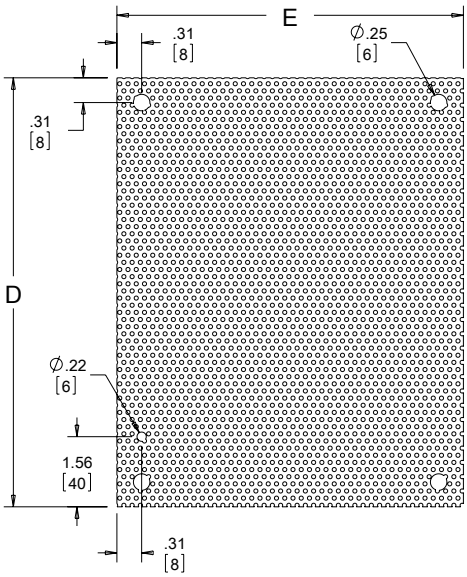


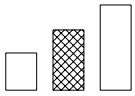
Perforated panels are 16 gauge steel and accept self-tapping screws and eliminate the need to measure, mark and drill when mounting components. Use for mounting lightweight control components.

BULLETIN: PNLP

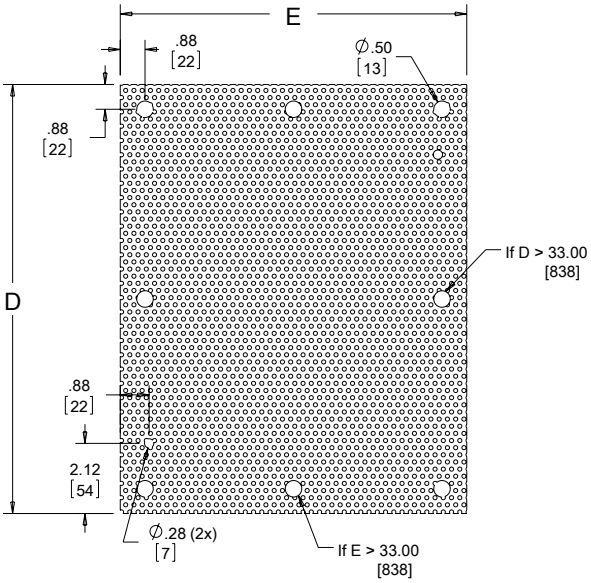
Catalog Number	Use in	Panel Size D x E (in.)	Panel Size D x E (mm)
A6N6PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	4.25 x 4.25	108 x 108
A8N6PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	6.25 x 4.25	159 x 108
A8N8PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	6.25 x 6.25	159 x 159
A10N8PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	8.25 x 6.25	210 x 159
A10N10PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	8.25 x 8.25	210 x 210
A12N10PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	10.25 x 8.25	260 x 210
A12N12PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	10.25 x 10.25	260 x 260
A14N12PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	12.25 x 10.25	311 x 260
A16N12PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	14.25 x 10.25	362 x 260
A20N12PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	18.25 x 10.25	464 x 260
A16N12MPP	Medium Type 1 Panel Enclosures	13.00 x 10.50	330 x 267
A16N16MPP	Medium Type 1 Panel Enclosures	13.00 x 14.50	330 x 368
A16N20MPP	Medium Type 1 Panel Enclosures	13.00 x 18.50	330 x 470
A18N18MPP	Medium Type 1 Panel Enclosures	15.00 x 16.50	381 x 419
A20N12MPP	Medium Type 1 Panel Enclosures	17.00 x 10.50	432 x 267
A20N16MPP	Medium Type 1 Panel Enclosures	17.00 x 14.50	432 x 368
A20N20MPP	Medium Type 1 Panel Enclosures	17.00 x 18.50	432 x 470
A24N16MPP	Medium Type 1 Panel Enclosures	21.00 x 14.50	533 x 368
A24N20MPP	Medium Type 1 Panel Enclosures	21.00 x 18.50	533 x 470
A24N24MPP	Medium Type 1 Panel Enclosures	21.00 x 22.50	533 x 572
A30N20MPP	Medium Type 1 Panel Enclosures	26.00 x 18.50	660 x 470
A30N24MPP	Medium Type 1 Panel Enclosures	26.00 x 22.50	660 x 572
A30N30MPP	Medium Type 1 Panel Enclosures	26.00 x 28.50	660 x 724
A36N24MPP	Medium Type 1 Panel Enclosures	32.00 x 22.50	813 x 572
A36N30MPP	Medium Type 1 Panel Enclosures	32.00 x 26.50	813 x 724
A16P12PP	Medium Type 3R Hinged-Cover Panel Enclosures	13.00 x 9.00	330 x 229
A16P16PP	Medium Type 3R Hinged-Cover Panel Enclosures	13.00 x 13.00	330 x 330
A20P16PP	Medium Type 3R Hinged-Cover Panel Enclosures	17.00 x 13.00	432 x 330
A18P18PP	Medium Type 3R Hinged-Cover Panel Enclosures	15.00 x 15.00	381 x 381
A20P20PP	Medium Type 3R Hinged-Cover Panel Enclosures	17.00 x 17.00	432 x 732
A24P20PP	Medium Type 3R Hinged-Cover Panel Enclosures	21.00 x 17.00	533 x 432
A24P24PP	Medium Type 3R Hinged-Cover Panel Enclosures	21.00 x 21.00	533 x 533
A30P24PP	Medium Type 3R Hinged-Cover Panel Enclosures	27.00 x 21.00	686 x 533
A36P24PP	Medium Type 3R Hinged-Cover Panel Enclosures	33.00 x 21.00	838 x 533
A30P30PP	Medium Type 3R Hinged-Cover Panel Enclosures	27.00 x 27.00	686 x 686
A36P30PP	Medium Type 3R Hinged-Cover Panel Enclosures	33.00 x 27.00	838 x 686
A36P36PP	Medium Type 3R Hinged-Cover Panel Enclosures	33.00 x 33.00	838 x 838

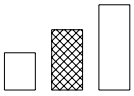




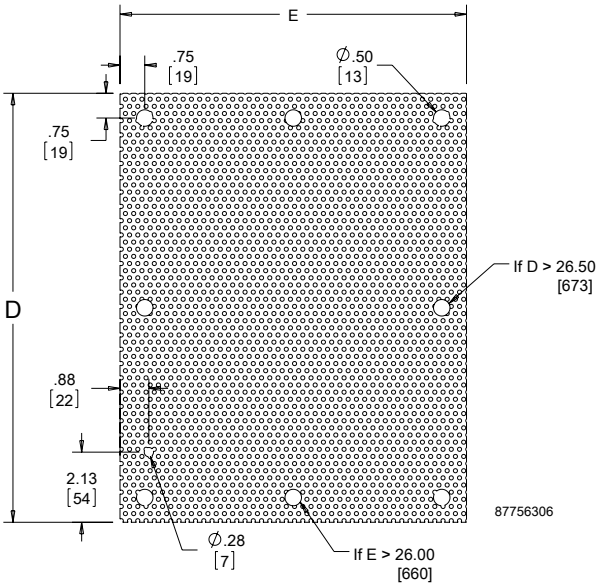


Type 3R





Type 1



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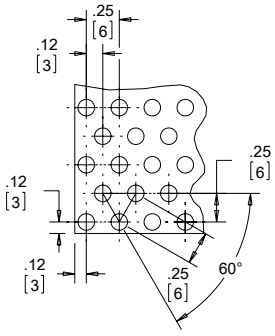

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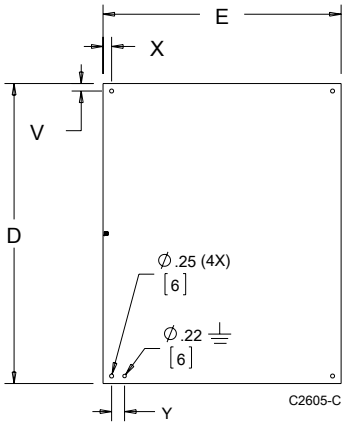
PANELS FOR JUNCTION BOXES

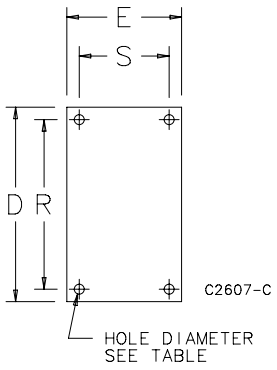
BULLETIN: PNLJ, PNLWM



Steel panels are 14 gauge, finished with white polyester powder paint or with a conductive, corrosion-resistant coating. Stainless steel panels are 14 gauge Type 304 and have a commercial #3 finish which is protected on one side with a plastic film. Aluminum panels are 5052-H32 aluminum alloy 0.080-in. (2-mm) thick and protected on one side with a plastic film. Panel mounting hardware is furnished with all enclosures which accept these panels.

Catalog Number	Material	Panel Size D x E (in.)	Panel Size D x E (mm)	V (in.)	V (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
A4P4G	Conductive	2.88 x 2.88	73 x 73	.31	8	.31	8	1.25	32
A6P4	Painted steel	4.88 x 2.88	124 x 73	.31	8	.31	8	1.25	32
A6P4G	Conductive steel	4.88 x 2.88	124 x 73	.31	8	.31	8	1.25	32
A6P4SS	Stainless Steel	4.88 x 2.88	124 x 73	.31	8	.31	8	1.25	32
A6P4AL	Aluminum	4.88 x 2.88	124 x 73	.31	8	.31	8	1.25	32
A6P6	Painted steel	4.88 x 4.88	124 x 124	.31	8	.31	8	1.25	32
A6P6G	Conductive steel	4.88 x 4.88	124 x 124	.31	8	.31	8	1.25	32
A6P6SS	Stainless Steel	4.88 x 4.88	124 x 124	.31	8	.31	8	1.25	32
A6P6AL	Aluminum	4.88 x 4.88	124 x 124	.31	8	.31	8	1.25	32
A7P7G	Conductive	5.88 x 5.88	149 x 149	.31	8	.31	8	1.25	32
A8P6	Painted steel	6.75 x 4.88	171 x 124	.25	6	.31	8	1.25	32
A8P6G	Conductive steel	6.75 x 4.88	171 x 124	.25	6	.31	8	1.25	32
A8P6SS	Stainless Steel	6.75 x 4.88	171 x 124	.25	6	.31	8	1.25	32
A8P6AL	Aluminum	6.75 x 4.88	171 x 124	.25	6	.31	8	1.25	32
A8P8	Painted steel	6.75 x 6.88	171 x 175	.25	6	.31	8	1.25	32
A8P8G	Conductive Steel	6.75 x 6.88	171 x 175	.25	6	.31	8	1.25	32
A8P8AL	Aluminum	6.75 x 6.88	171 x 175	.25	6	.31	8	1.25	32
A9P6G	Conductive	7.38 x 4.63	187 x 118	.31	8	.31	8	1.25	32
A10P8	Painted steel	8.75 x 6.88	222 x 175	.25	6	.31	8	1.25	32
A10P8G	Conductive steel	8.75 x 6.88	222 x 175	.25	6	.31	8	1.25	32
A10P8SS	Stainless Steel	8.75 x 6.88	222 x 175	.25	6	.31	8	1.25	32
A10P8AL	Aluminum	8.75 x 6.88	222 x 175	.25	6	.31	8	1.25	32
A10P10	Painted steel	8.75 x 8.88	222 x 226	.25	6	.31	8	1.25	32
A10P10G	Conductive steel	8.75 x 8.88	222 x 226	.25	6	.31	8	1.25	32
A10P10AL	Aluminum	8.75 x 8.88	222 x 226	.25	6	.31	8	1.25	32
A12P6	Painted steel	10.75 x 4.88	273 x 124	.25	6	.31	8	1.25	32
A12P6G	Conductive steel	10.75 x 4.88	273 x 124	.25	6	.31	8	1.25	32
A12P10	Painted steel	10.75 x 8.88	273 x 226	.25	6	.31	8	1.25	32
A12P10G	Conductive steel	10.75 x 8.88	273 x 226	.25	6	.31	8	1.25	32
A12P10SS	Stainless Steel	10.75 x 8.88	273 x 226	.25	6	.31	8	1.25	32
A12P10AL	Aluminum	10.75 x 8.88	273 x 226	.25	6	.31	8	1.25	32
A12P12	Painted steel	10.75 x 10.88	273 x 276	.25	6	.31	8	1.25	32
A12P12G	Conductive steel	10.75 x 10.88	273 x 276	.25	6	.31	8	1.25	32
A12P12SS	Stainless Steel	10.75 x 10.88	273 x 276	.25	6	.31	8	1.25	32
A14P8	Painted steel	12.75 x 6.88	324 x 175	.25	6	.31	8	1.25	32
A14P8G	Conductive steel	12.75 x 6.88	324 x 175	.25	6	.31	8	1.25	32
A14P12	Painted steel	12.75 x 10.88	324 x 276	.25	6	.31	8	1.25	32
A14P12G	Conductive steel	12.75 x 10.88	324 x 276	.25	6	.31	8	1.25	32
A14P12SS	Stainless Steel	12.75 x 10.88	324 x 276	.25	6	.31	8	1.25	32
A14P12AL	Aluminum	12.75 x 10.88	324 x 276	.25	6	.31	8	1.25	32
A16P10	Painted steel	14.75 x 8.88	375 x 226	.25	6	.31	8	1.25	32
A16P10G	Conductive steel	14.75 x 8.88	375 x 226	.25	6	.31	8	1.25	32
A16P14	Painted steel	14.75 x 12.88	375 x 327	.25	6	.31	8	1.25	32
A16P14G	Conductive steel	14.75 x 12.88	375 x 327	.25	6	.31	8	1.25	32
A16P14SS	Stainless Steel	14.75 x 12.88	375 x 327	.25	6	.31	8	1.25	32
A16P14AL	Aluminum	14.75 x 12.88	375 x 327	.25	6	.31	8	1.25	32
A18P16	Painted steel	16.75 x 14.88	425 x 378	.25	6	.31	8	1.25	32
A18P16G	Conductive steel	16.75 x 14.88	425 x 378	.25	6	.31	8	1.25	32
A18P16SS	Stainless Steel	16.75 x 14.88	425 x 378	.25	6	.31	8	1.25	32
A18P16AL	Aluminum	16.75 x 14.88	425 x 378	.25	6	.31	8	1.25	32
A20P16J	Painted	18.75 x 14.88	476 x 378	.47	12	.54	14	.81	21
A20P16JAL	Aluminum	18.75 x 14.88	476 x 378	.47	12	.54	14	.81	21

COMPOSITE PANELS FOR JUNCTION BOXES AND UL/NEMA WALL-MOUNT ENCLOSURES



Manufactured from light-brown, reinforced phenolic laminate sheet stock. This material has exceptional strength and chemical resistance, which makes it ideally suited for the most corrosive environments. Composite panels are intended for use in corrosion-resistant enclosures. Panel sizes are available for junction boxes and UL/NEMA size enclosures. Composite panels may be drilled and tapped but work equally as well with self-threading or thread-cutting screws. Refer to the table for recommended mounting specifications.

BULLETIN: PNLC

Standard Product

Catalog Number	Panel Size D x E in./mm	R in./mm	S in./mm	Hole Dia. in./mm	Panel Thickness in./mm
A6P4C	4.88 x 2.88 124 x 73	4.25 108	2.25 57	0.25 6	0.12 3
A6P6C	4.88 x 4.88 124 x 124	4.25 108	4.25 108	0.25 6	0.12 3
A8P6C	6.75 x 4.88 171 x 124	6.25 159	4.25 108	0.25 6	0.12 3
A10P8C	8.75 x 6.88 222 x 175	8.25 210	6.25 159	0.25 6	0.12 3
A12P10C	10.75 x 8.88 273 x 226	10.25 260	8.25 210	0.25 6	0.19 5
A14P12C	12.75 x 10.88 324 x 276	12.25 311	10.25 260	0.25 6	0.19 5
A16P14C	14.75 x 12.88 375 x 327	14.25 362	12.25 311	0.25 6	0.19 5
A18P16C	16.75 x 14.88 425 x 379	16.25 413	14.25 362	0.25 6	0.19 5
A20P16C	17.00 x 13.00 432 x 330	15.25 387	11.25 286	0.50 13	0.19 5
A20P20C	17.00 x 17.00 432 x 432	15.25 387	15.25 387	0.50 13	0.19 5
A24P20C	21.00 x 17.00 533 x 432	19.25 489	15.25 387	0.50 13	0.19 5
A24P24C	21.00 x 21.00 533 x 533	19.25 489	19.25 489	0.50 13	0.19 5
A30P24C	27.00 x 21.00 686 x 533	25.25 641	19.25 489	0.50 13	0.19 5

Composite Panel Mounting Recommendations

Screw Type	Screw Size	Hole Size in./mm	Max. Insertion Torque (lb.) in 0.12 in. Material	Max. Insertion Torque (lb.) in 0.19 in. Material	Max. Load (lb. per screw) in 0.12 in. Material	Max. Load (lb. per screw) in 0.19 in. Material
Machine (tapped hole)	8-32	.136 3	15	25	40	45
Machine (tapped hole)	10-32	.161 4	15	25	35	40
Machine (tapped hole)	1/4-20	.204 5	20	25	30	35
Thread Cutting Type T	8-32	.144 4	15	25	40	45
Thread Cutting Type T	10-32	.166 4	15	25	35	40
Thread Cutting Type T	1/4-20	.288 7	20	25	30	35
Sheet Metal A-B	8-32	.147 4	Not recommended	10	40	45
Sheet Metal A-B	10-32	.166 4	Not recommended	10	35	40
Sheet Metal A-B	1/4-20	.221 6	Not recommended	15	30	35

JUNCTION BOX AND WALL-MOUNT ENCLOSURE SWING-OUT PANEL KIT

Kits allow mounting standard Hoffman junction box and NEMA style panels (purchase separately) near the front of the enclosure for easy access to or reading of gauges, switches, pilot lights and other components. Kits consist of heavy-gauge brackets and hinges which are easily installed by drilling small holes in the sides of the enclosure and bolting the brackets in place. External screws are stainless steel; internal components are plated steel. All mounting hardware and instructions are provided. Sealing washers ensure the enclosure will meet original JIC or NEMA standards after installation.
Swing-Out Panel Kits do not fit single-door disconnect enclosures.

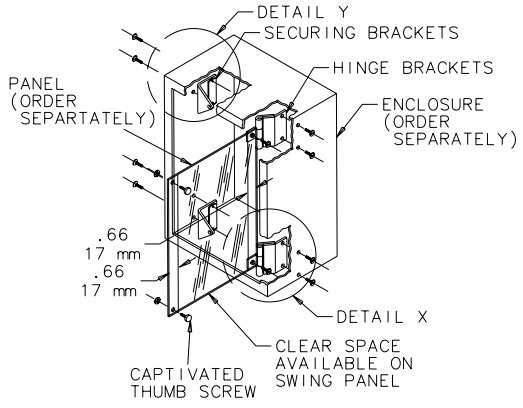
BULLETIN: A80

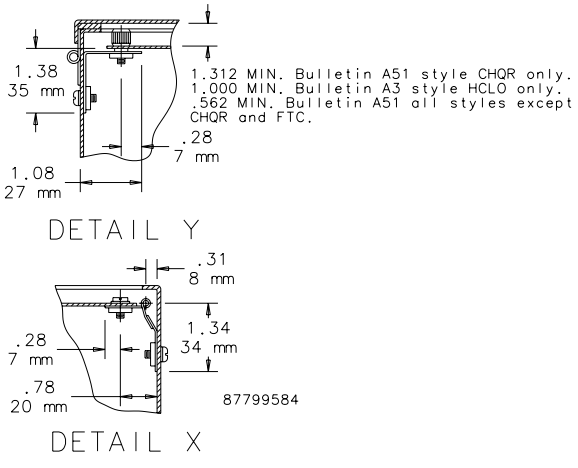
Catalog Number	Description	Maximum Load (lb.)	Maximum Load (kg)	Use In
AJCDFK	Junction Box Kit	25	11.3	- Junction boxes where A x B is 8.00 x 6.00 in. (203 x 152 mm) or larger - HCLO Type 3R enclosures where A x B is 16.00 x 12.00 in. (406 x 305 mm) or smaller
ANADFK	Wall-Mount Enclosure Kit	100	45.4	- One-door Type 4, 4X, 12 and 13 enclosures where A x B is 12.00 x 12.00 in. (305 x 305 mm) or larger - HCLO Type 3R enclosures where A x B is 16.00 x 16.00 in. (406 x 406 mm) or larger - HCR Type 3R enclosures where A x B is 16.00 x 12.00 (406 x 305 mm) or larger - Type 1 enclosures where A x B is 42.00 x 30.00 in. (1067 x 762 mm) or larger

Both kits maintain UL Type 4 and Type 4X rating when properly installed in a Hoffman enclosure.

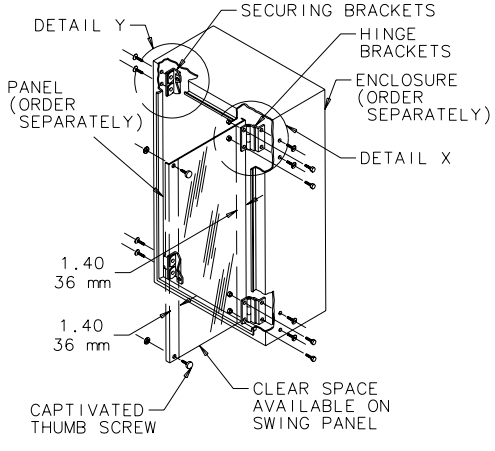
Maximum load includes the weight of the panel plus the weight of the components, with the weight of the components spread evenly over the panel.

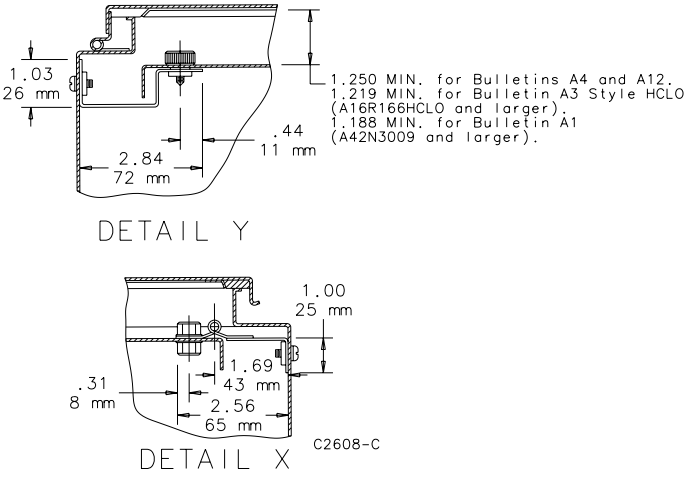
Junction Box Swing-Out Panel Kit



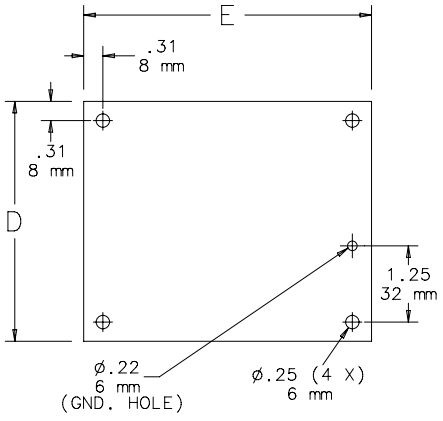


Wall-Mount Enclosure Swing-Out Panel Kit





PANELS FOR TYPE 1 ENCLOSURES AND SMALL TYPE 3R ENCLOSURES



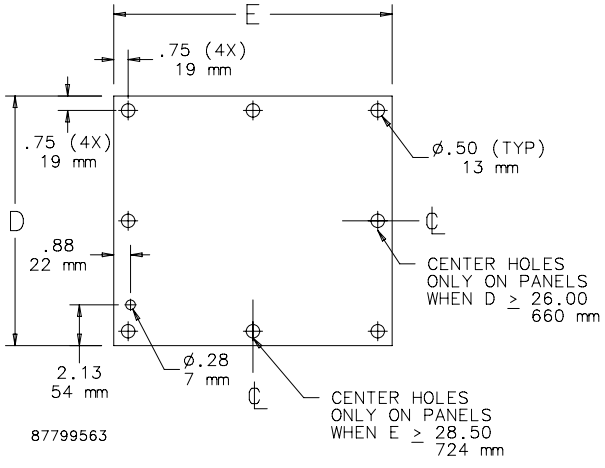
C2646-C

Steel panels are 14 gauge, finished with white polyester powder paint. Panel mounting hardware is furnished with enclosure.

BULLETIN: PNLT1

Catalog Number	Panel Size D x E (in.)	Panel Size D x E (mm)
A6N4P	4.25 x 2.25	108 x 57
A6N6P	4.25 x 4.25	108 x 108
A8N6P	6.25 x 4.25	159 x 108
A8N8P	6.25 x 6.25	159 x 159
A10N8P	8.25 x 6.25	210 x 159
A10N10P	8.25 x 8.25	210 x 210
A12N10P	10.25 x 8.25	260 x 210
A12N12P	10.25 x 10.25	260 x 260
A14N12P	12.25 x 10.25	311 x 260
A16N12P	14.25 x 10.25	362 x 260
A20N12P	18.25 x 10.25	464 x 260

PANELS FOR MEDIUM TYPE 1 ENCLOSURES



87799563

Steel panels are 14 or 12 gauge with a white polyester powder paint finish. Panel mounting hardware is furnished with enclosure.

BULLETIN: PNLT1

Catalog Number	Panel Thickness (ga.)	Panel Size D x E (in.)	Panel Size D x E (mm)
A16N12MP	14	13.00 x 10.50	330 x 267
A20N12MP	14	17.00 x 10.50	432 x 267
A16N16MP	14	13.00 x 14.50	330 x 368
A20N16MP	14	17.00 x 14.50	432 x 368
A24N16MP	14	21.00 x 14.50	533 x 368
A18N18MP	14	15.00 x 16.50	381 x 419
A16N20MP	14	13.00 x 18.50	330 x 470
A20N20MP	14	17.00 x 18.50	432 x 470
A24N20MP	14	21.00 x 18.50	533 x 470
A30N20MP	14	26.00 x 18.50	660 x 470
A24N24MP	12	21.00 x 22.50	533 x 571
A30N24MP	12	26.00 x 22.50	660 x 571
A36N24MP	12	32.00 x 22.50	813 x 571
A30N30MP	12	26.00 x 28.50	660 x 724
A36N30MP	12	32.00 x 28.50	813 x 724

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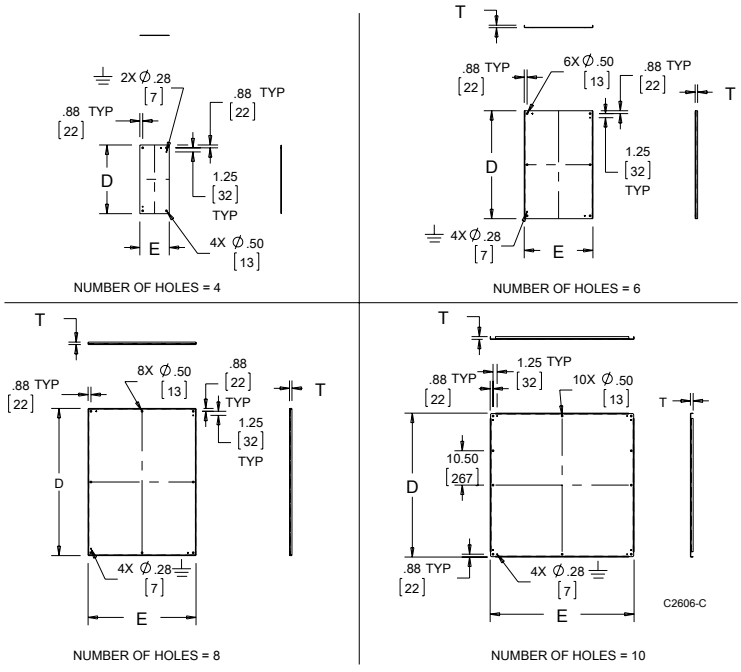
PANELS FOR TYPE 3R, 4, 4X, 12 AND 13 ENCLOSURES

Steel panels are 11 or 12 gauge, finished with white polyester powder paint or a conductive, corrosion-resistant coating. Larger panels have flanges on two or four sides. Some larger steel panels are 11 gauge and include extra holes for panel lifting. Aluminum panels are 5052-H32 aluminum alloy. Larger panels have flanges on four sides. Aluminum panels are protected on one side with a plastic film. Stainless steel panels are Type 316 stainless steel. Panel mounting hardware is furnished with all enclosures which accept these panels.

BULLETIN: PNLFS, PNLJ, PNLWM

Catalog Number	Material	Panel Size D x E (in.)	Panel Size D x E (mm)	Panel Gauge or Thickness	Edge Flanges	T (in.)	T (mm)	Number of Holes
A12P24	Painted steel	9.00 x 21.00	229 x 533	12 ga.	0	—	—	4
A12P24G	Conductive steel	9.00 x 21.00	229 x 533	12 ga.	0	—	—	4
A16P12	Painted steel	13.00 x 9.00	330 x 229	12 ga.	0	—	—	4
A16P12G	Conductive steel	13.00 x 9.00	330 x 229	12 ga.	0	—	—	4
A16P12SS6	Stainless Steel	13.00 x 9.00	330 x 229	12 ga.	0	—	—	4
A16P12AL	Aluminum	13.00 x 9.00	330 x 229	0.10 in./3 mm	0	—	—	4
A16P16	Painted steel	13.00 x 13.00	330 x 330	12 ga.	0	—	—	4
A16P16G	Conductive steel	13.00 x 13.00	330 x 330	12 ga.	0	—	—	4
A16P16SS6	Stainless Steel	13.00 x 13.00	330 x 330	12 ga.	0	—	—	4
A16P16AL	Aluminum	13.00 x 13.00	330 x 330	0.10 in./3 mm	0	—	—	4
A18P18	Painted steel	15.00 x 15.00	381 x 381	12 ga.	0	—	—	4
A18P18G	Conductive steel	15.00 x 15.00	381 x 381	12 ga.	0	—	—	4
A20P12	Painted steel	17.00 x 9.00	432 x 229	12 ga.	0	—	—	4
A20P12G	Conductive steel	17.00 x 9.00	432 x 229	12 ga.	0	—	—	4
A20P16	Painted steel	17.00 x 13.00	432 x 330	12 ga.	0	—	—	4
A20P16G	Conductive steel	17.00 x 13.00	432 x 330	12 ga.	0	—	—	4
A20P16SS6	Stainless Steel	17.00 x 13.00	432 x 330	12 ga.	0	—	—	4
A20P16AL	Aluminum	17.00 x 13.00	432 x 330	0.10 in./3 mm	0	—	—	4
A20P20	Painted steel	17.00 x 17.00	432 x 432	12 ga.	0	—	—	4
A20P20G	Conductive steel	17.00 x 17.00	432 x 432	12 ga.	0	—	—	4
A20P20SS6	Stainless steel	17.00 x 17.00	432 x 432	12 ga.	0	—	—	4
A20P20AL	Aluminum	17.00 x 17.00	432 x 432	0.10 in./3 mm	0	—	—	4
A24P16	Painted steel	21.00 x 13.00	533 x 330	12 ga.	0	—	—	4
A24P16G	Conductive steel	21.00 x 13.00	533 x 330	12 ga.	0	—	—	4
A24P16SS6	Stainless Steel	21.00 x 13.00	533 x 330	12 ga.	0	—	—	4
A24P20	Painted steel	21.00 x 17.00	533 x 432	12 ga.	2	0.75	19	4
A24P20G	Conductive steel	21.00 x 17.00	533 x 432	12 ga.	2	0.75	19	4
A24P20SS6	Stainless Steel	21.00 x 17.00	533 x 432	12 ga.	2	0.75	19	4
A24P20AL	Aluminum	21.00 x 17.00	533 x 432	0.10 in./3 mm	4	0.75	19	4
A24P24	Painted steel	21.00 x 21.00	533 x 533	12 ga.	2	0.75	19	4
A24P24G	Conductive steel	21.00 x 21.00	533 x 533	12 ga.	2	0.75	19	4
A24P24SS6	Stainless Steel	21.00 x 21.00	533 x 533	12 ga.	2	0.75	19	4
A24P24AL	Aluminum	21.00 x 21.00	533 x 533	0.10 in./3 mm	2	0.75	19	4
A30P16	Painted steel	27.00 x 13.00	686 x 330	12 ga.	2	0.75	19	4
A30P16G	Conductive steel	33.00 x 27.00	838 x 686	12 ga.	2	0.75	19	4
A30P20	Painted steel	27.00 x 17.00	686 x 432	12 ga.	2	0.75	19	4
A30P20G	Conductive steel	27.00 x 17.00	686 x 432	12 ga.	2	0.75	19	4
A30P20SS6	Stainless Steel	27.00 x 17.00	686 x 432	12 ga.	2	0.75	19	4
A30P24	Painted steel	27.00 x 21.00	686 x 533	12 ga.	2	0.75	19	4
A30P24G	Conductive steel	27.00 x 21.00	686 x 533	12 ga.	2	0.75	19	4
A30P24SS6	Stainless Steel	27.00 x 21.00	686 x 533	12 ga.	2	0.75	19	4
A30P24AL	Aluminum	27.00 x 21.00	686 x 533	0.10 in./3 mm	2	0.75	19	4
A30P30	Painted steel	27.00 x 27.00	686 x 686	12 ga.	4	0.75	19	4
A30P30G	Conductive steel	27.00 x 27.00	686 x 686	12 ga.	4	0.75	19	4
A30P30SS6	Stainless Steel	27.00 x 27.00	686 x 686	12 ga.	4	0.75	19	4
A36P16	Painted steel	33.00 X 13.00	838 X 330	12 ga.	2	0.75	19	4
A36P16G	Conductive steel	33.00 x 13.00	838 x 330	12 ga.	2	0.75	19	4
A36P24	Painted steel	33.00 x 21.00	838 x 533	12 ga.	2	0.75	19	6
A36P24G	Conductive steel	33.00 x 21.00	838 x 533	12 ga.	2	0.75	19	6
A36P24SS6	Stainless Steel	33.00 x 21.00	838 x 533	12 ga.	2	0.75	19	6
A36P24AL	Aluminum	33.00 x 21.00	838 x 533	0.10 in./3 mm	2	0.75	19	6
A36P30	Painted steel	33.00 x 27.00	838 x 686	12 ga.	4	0.75	19	6
A36P30G	Conductive steel	33.00 x 27.00	838 x 686	12 ga.	4	0.75	19	6
A36P30SS6	Stainless Steel	33.00 x 27.00	838 x 686	12 ga.	4	0.75	19	6
A36P30AL	Aluminum	33.00 x 27.00	838 x 686	0.10 in./3 mm	4	0.75	19	6
A36P36	Painted steel	33.00 x 33.00	838 x 838	12 ga.	4	0.75	19	8
A36P36G	Conductive steel	33.00 x 33.00	838 x 838	12 ga.	4	0.75	19	8
A36P36SS6	Stainless Steel	33.00 x 33.00	838 x 838	12 ga.	4	0.75	19	8
A40P24	Painted steel	37.00 x 21.00	940 x 533	12 ga.	4	0.75	19	6

Catalog Number	Material	Panel Size D x E (in.)	Panel Size D x E (mm)	Panel Gauge or Thickness	Edge Flanges	T (in.)	T (mm)	Number of Holes
A40P24G	Conductive steel	37.00 x 21.00	940 x 533	12 ga.	4	0.75	19	6
A40P30	Painted steel	37.00 x 29.00	940 x 737	12 ga.	4	0.75	19	4
A40P30G	Conductive steel	37.00 x 29.00	940 x 737	12 ga.	4	0.75	19	4
A42P24	Painted steel	39.00 x 21.00	991 x 533	12 ga.	2	0.75	19	6
A42P24G	Conductive steel	39.00 x 21.00	991 x 533	12 ga.	2	0.75	19	6
A42P30	Painted steel	39.00 x 27.00	991 x 686	12 ga.	4	0.75	19	6
A42P30G	Conductive steel	39.00 x 27.00	991 x 686	12 ga.	4	0.75	19	6
A42P30SS6	Stainless Steel	39.00 x 27.00	991 x 686	12 ga.	4	0.75	19	6
A42P36	Painted steel	39.00 x 33.00	991 x 838	12 ga.	4	0.75	19	8
A42P36G	Conductive steel	39.00 x 33.00	991 x 838	12 ga.	4	0.75	19	8
A42P36SS6	Stainless Steel	39.00 x 33.00	991 x 838	12 ga.	4	0.75	19	8
A42P42	Painted steel	39.00 x 39.00	991 x 991	12 ga.	4	0.75	19	8
A42P42G	Conductive steel	39.00 x 39.00	991 x 991	12 ga.	4	0.75	19	8
A48P24	Painted steel	45.00 x 21.00	1143 x 533	12 ga.	2	0.75	19	6
A48P24G	Conductive steel	45.00 x 21.00	1143 x 533	12 ga.	2	0.75	19	6
A48P30	Painted steel	45.00 x 27.00	1143 x 686	12 ga.	4	0.75	19	6
A48P30G	Conductive steel	45.00 x 27.00	1143 x 686	12 ga.	4	0.75	19	6
A48P36	Painted steel	45.00 x 33.00	1143 x 838	12 ga.	4	0.75	19	8
A48P36G	Conductive steel	45.00 x 33.00	1143 x 838	12 ga.	4	0.75	19	8
A48P36SS6	Stainless Steel	45.00 x 33.00	1143 x 838	12 ga.	4	0.75	19	8
A48P36AL	Aluminum	45.00 x 33.00	1143 x 838	0.10 in./3 mm	4	0.75	19	8
A48P42	Painted steel	45.00 x 39.00	1143 x 991	12 ga.	4	0.75	19	8
A48P42G	Conductive steel	45.00 x 39.00	1143 x 991	12 ga.	4	0.75	19	8
A48P48	Painted steel	44.00 x 44.00	1118 x 1118	11 ga.	4	0.84	21	10
A48P48G	Conductive steel	44.00 x 44.00	1118 x 1118	11 ga.	4	0.84	21	10
A54P42	Painted steel	50.00 x 38.00	1270 x 965	11 ga.	4	0.84	21	10
A54P42G	Conductive steel	50.00 x 38.00	1270 x 965	11 ga.	4	0.84	21	10
A60P24	Painted steel	57.00 x 21.00	1448 x 533	12 ga.	4	0.75	19	6
A60P24G	Conductive steel	57.00 x 21.00	1448 x 533	12 ga.	4	0.75	19	6
A60P30	Painted steel	57.00 x 27.00	1448 x 686	12 ga.	4	0.75	19	6
A60P30G	Conductive steel	57.00 x 27.00	1448 x 686	12 ga.	4	0.75	19	6
A60P36	Painted steel	57.00 x 33.00	1448 x 838	12 ga.	4	0.75	19	8
A60P36G	Conductive steel	57.00 x 33.00	1448 x 838	12 ga.	4	0.75	19	8
A60P36SS6	Stainless Steel	57.00 x 33.00	1448 x 838	12 ga.	4	0.75	19	8
A60P36AL	Aluminum	57.00 x 33.00	1448 x 838	0.10 in./3 mm	4	0.75	19	8
A60BFP42	Painted steel	56.00 x 38.00	1422 x 965	11 ga.	4	0.84	21	10
A60BFP42G	Conductive steel	56.00 x 38.00	1422 x 965	11 ga.	4	0.84	21	10
A60P48	Painted steel	56.00 x 44.00	1422 x 1118	11 ga.	4	0.84	21	10
A60P48G	Conductive steel	56.00 x 44.00	1422 x 1118	11 ga.	4	0.84	21	10
A60P60	Painted steel	56.00 x 56.00	1422 x 1422	11 ga.	4	0.84	21	10
A60P60G	Conductive steel	56.00 x 56.00	1422 x 1422	11 ga.	4	0.84	21	10
A72P36	Painted steel	69.00 x 33.00	1753 x 838	12 ga.	4	0.75	19	8
A72P36G	Conductive steel	69.00 x 33.00	1753 x 838	12 ga.	4	0.75	19	8
A72P60	Painted steel	68.00 x 56.00	1727 x 1422	11 ga.	4	0.84	21	10
A72P60G	Conductive steel	68.00 x 56.00	1727 x 1422	11 ga.	4	0.84	21	10
A72P72	Painted steel	68.00 x 68.00	1727 x 1727	11 ga.	4	0.84	21	10
A72P72G	Conductive steel	68.00 x 68.00	1727 x 1727	11 ga.	4	0.84	21	10



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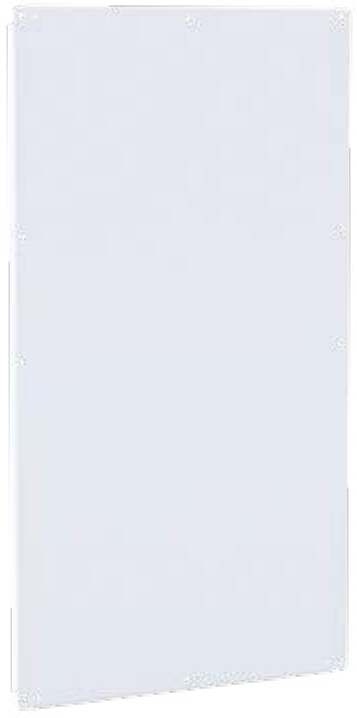
PANELS FOR FREE-STAND, MULTI-DOOR ENCLOSURES (BULLETINS A27, A28, A28S4 AND A34)



Extra panels for large enclosures (Bulletins A27, A28, A28S4 and A34) can be ordered for panel assembly prior to receiving the enclosures (enclosures include panels). Panels are 11 gauge steel with .80-in. (20-mm) flanges on four sides. Finish is white polyester powder paint or a conductive, corrosion-resistant coating. Two extra holes are provided for lifting and installing panels. Mounting hardware included with enclosure.

BULLETIN: PNLFS

Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)	Number of Holes	Fits Enclosure Height
A72PM28	Painted steel	60.00 x 21.75	1524 x 552	8	72 in.
A72PM28G	Conductive	60.00 x 21.75	1524 x 552	8	72 in.
A72PM34	Painted steel	60.00 x 27.75	1524 x 705	8	72 in.
A72PM34G	Conductive	60.00 x 27.75	1524 x 705	8	72 in.
A72PM40	Painted steel	60.00 x 33.75	1524 x 857	8	72 in.
A72PM40G	Conductive	60.00 x 33.75	1829 x 857	8	72 in.
A72PM54	Painted steel	60.00 x 48.00	1524 x 1219	10	72 in.
A72PM54G	Conductive	60.00 x 48.00	1524 x 1219	10	72 in.
A72PM66	Painted steel	60.00 x 60.00	1524 x 1524	10	72 in.
A72PM66G	Conductive	60.00 x 60.00	1524 x 1524	10	72 in.
A72PM78	Painted steel	60.00 x 72.00	1524 x 1829	12	72 in.
A72PM78G	Conductive	60.00 x 72.00	1524 x 1829	12	72 in.
A84PM40	Painted steel	72.00 x 33.75	1829 x 857	8	84 in.
A84PM40G	Conductive	72.00 x 33.75	1829 x 857	8	84 in.
A84PM78	Painted steel	72.00 x 72.00	1829 x 1829	12	84 in.
A84PM78G	Conductive	72.00 x 72.00	1829 x 1829	12	84 in.
A86PM37	Painted steel	78.00 x 34.00	1981 x 864	8	86 in.
A86PM37G	Conductive	78.00 x 34.00	1981 x 864	8	86 in.
A86PM75	Painted steel	78.00 x 70.00	1981 x 1778	12	86 in.
A86PM75G	Conductive	78.00 x 70.00	1981 x 1778	12	86 in.
A90PM40	Painted steel	78.00 x 33.75	1981 x 857	8	90 in.
A90PM40G	Conductive	78.00 x 33.75	1981 x 857	8	90 in.
A90PM78	Painted steel	78.00 x 72.00	1981 x 1829	12	90 in.
A90PM78G	Conductive	78.00 x 72.00	1981 x 1829	12	90 in.

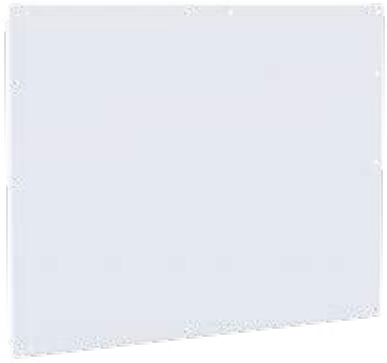
PANELS FOR FREE-STAND, TYPE 1 ONE-DOOR ENCLOSURES

Panels for free-stand, Type 1 one-door standard and disconnect enclosures are 12 gauge steel. Panels have either polyester powder paint finish or a conductive, corrosion-resistant coating.

BULLETIN: A38P

Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)
A37P21N	Painted steel	37.16 x 21.50	944 x 546
A37P21NG	Conductive	37.16 x 21.50	944 x 546
A49P21N	Painted steel	49.16 x 21.50	1249 x 546
A49P21NG	Conductive	49.16 x 21.50	1249 x 546
A61P21N	Painted steel	61.16 x 21.50	1553 x 546
A73P21N	Painted steel	73.16 x 21.50	1858 x 546
A73P21NG	Conductive	73.16 x 21.50	1858 x 546
A49P32N	Painted steel	49.16 x 32.00	1249 x 813
A49P32NG	Conductive	49.16 x 32.00	1249 x 813
A61P32N	Painted steel	61.16 x 32.00	1553 x 813
A61P32NG	Conductive	61.16 x 32.00	1553 x 813
A73P32N	Painted steel	73.16 x 32.00	1858 x 813
A73P32NG	Conductive	73.16 x 32.00	1858 x 813

PANELS FOR FREE-STAND, TYPE 1 TWO-DOOR ENCLOSURES



Panels for free-stand, Type 1 two-door standard and disconnect enclosures are 12 gauge steel. Panels have either polyester powder paint finish or a conductive, corrosion-resistant coating.

BULLETIN: A38P

Catalog Number	Finish	Panel Size D x E (in.)	Panel Size D x E (mm)
A37P48N	Painted steel	37.16 x 48.00	944 x 1219
A37P48NG	Conductive	37.16 x 48.00	944 x 1219
A49P48N	Painted steel	49.16 x 48.00	1249 x 1219
A49P48NG	Conductive	49.16 x 48.00	1249 x 1219
A49P68N	Painted steel	49.16 x 68.00	1249 x 1727
A49P68NG	Conductive	49.16 x 68.00	1249 x 1727
A61P68N	Painted steel	61.16 x 68.00	1553 x 1727
A61P68NG	Conductive	61.16 x 68.00	1553 x 1727
A73P68N	Painted steel	73.16 x 68.00	1858 x 1727
A73P68NG	Conductive	73.16 x 68.00	1858 x 1727

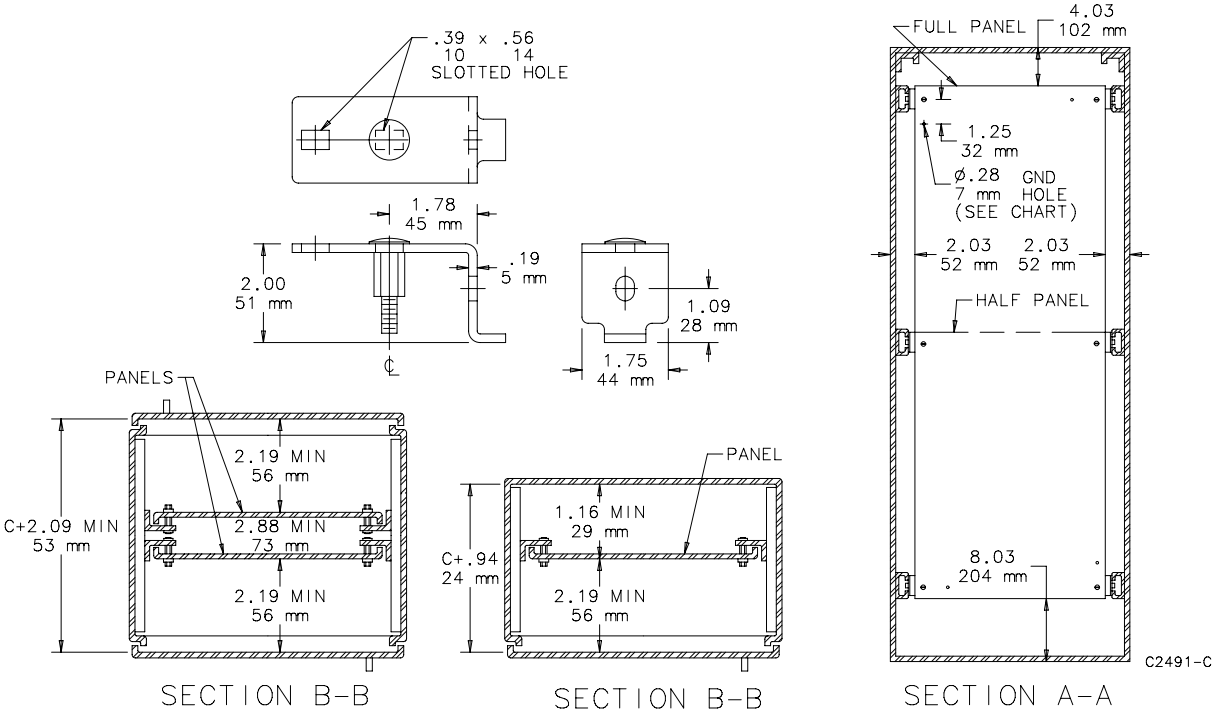
PANELS FOR FREE-STAND SINGLE- AND DUAL-ACCESS ONE-DOOR ENCLOSURES

Panels for one-door, single-access and one-door, dual-access Free-Stand Type 12 Enclosures, Free-Stand Type 4 Enclosures and One-Door Type 4X Free-Stand Fiberglass Enclosures. Panels are 12 gauge steel and can be positioned anywhere along horizontal mounting channels (see dimension drawing Sections B-B for limitations). Half-length panels can be located in the upper or lower portion of the enclosure. Panels are finished with white polyester powder paint or a conductive, corrosion-resistant coating and furnished with plated mounting hardware.

BULLETIN: PNL30

Catalog Number	Description	Finish	Panel Size (in.)	Panel Size (mm)	Fits Enclosure A x B (in.)	Fits Enclosure A x B (mm)
A60P24F1	Full Panel	Painted steel	48.00 x 20.00	1218 x 508	60.00 x 24.00	1524 x 610
A60P24F1G	Full Panel	Conductive	48.00 x 20.00	1218 x 508	60.00 x 24.00	1524 x 610
A60P24F2	Half Panel	Painted steel	24.88 x 20.00	632 x 508	60.00 x 24.00	1524 x 610
A60P24F2G	Half Panel	Conductive	24.88 x 20.00	632 x 508	60.00 x 24.00	1524 x 610
A72P24F1	Full Panel	Painted steel	60.00 x 20.00	1524 x 508	72.00 x 24.00	1829 x 610
A72P24F1G	Full Panel	Conductive	60.00 x 20.00	1524 x 508	72.00 x 24.00	1829 x 610
A72P24F2	Half Panel	Painted steel	30.88 x 20.00	784 x 508	72.00 x 24.00	1829 x 610
A72P24F2G	Half Panel	Conductive	30.88 x 20.00	784 x 508	72.00 x 24.00	1829 x 610
A90P24F1	Full Panel	Painted steel	78.00 x 20.00	1981 x 508	90.00 x 24.00	2286 x 610
A90P24F1G	Full Panel	Conductive	78.00 x 20.00	1981 x 508	90.00 x 24.00	2286 x 610
A90P24F2	Half Panel	Painted steel	39.88 x 20.00	1013 x 508	90.00 x 24.00	2286 x 610
A90P24F2G	Half Panel	Conductive	39.88 x 20.00	1013 x 508	90.00 x 24.00	2286 x 610
A72P30F1	Full Panel	Painted steel	60.00 x 26.00	1524 x 660	72.00 x 30.00	1829 x 762
A72P30F1G	Full Panel	Conductive	60.00 x 26.00	1524 x 660	72.00 x 30.00	1829 x 762
A72P30F2	Half Panel	Painted steel	30.88 x 26.00	784 x 660	72.00 x 30.00	1829 x 762
A72P30F2G	Half Panel	Conductive	30.88 x 26.00	784 x 660	72.00 x 30.00	1829 x 762
A60P36F1	Full Panel	Painted steel	48.00 x 32.00	1219 x 813	60.00 x 36.00	1524 x 914
A60P36F1G	Full Panel	Conductive	48.00 x 32.00	1219 x 813	60.00 x 36.00	1524 x 914
A60P36F2	Half Panel	Painted steel	24.88 x 32.00	632 x 813	60.00 x 36.00	1524 x 914
A60P36F2G	Half Panel	Conductive	24.88 x 32.00	632 x 813	60.00 x 36.00	1524 x 914
A72P36F1	Full Panel	Painted steel	60.00 x 32.00	1524 x 813	72.00 x 36.00	1829 x 914
A72P36F1G	Full Panel	Conductive	60.00 x 32.00	1524 x 813	72.00 x 36.00	1829 x 914
A72P36F2	Half Panel	Painted steel	30.88 x 32.00	784 x 813	72.00 x 36.00	1829 x 914
A72P36F2G	Half Panel	Conductive	30.88 x 32.00	784 x 813	72.00 x 36.00	1829 x 914
A90P36F1	Full Panel	Painted steel	78.00 x 32.00	1981 x 813	90.00 x 36.00	2286 x 914
A90P36F1G	Full Panel	Conductive	78.00 x 32.00	1981 x 813	90.00 x 36.00	2286 x 914
A90P36F2	Half Panel	Painted steel	39.88 x 32.00	1013 x 813	90.00 x 36.00	2286 x 914
A90P36F2G	Half Panel	Conductive	39.88 x 32.00	1013 x 813	90.00 x 36.00	2286 x 914

Use combinations of panels for 3-5 door A 28 enclosures.



PANELS FOR FREE-STAND SINGLE- AND DUAL-ACCESS TWO-DOOR ENCLOSURES

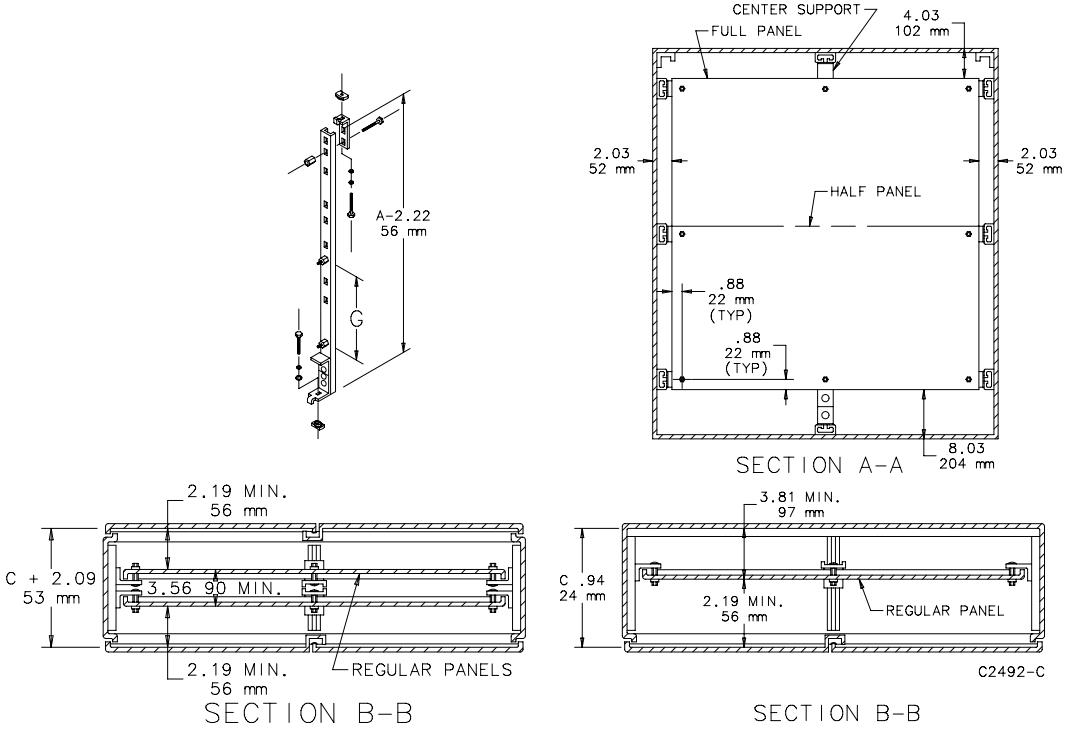
BULLETIN: PNL30

Panels for two-door single access and two-door dual access Free-Stand Type 4, 4X and 12 Enclosures with mounting channel are 11 gauge steel and can be positioned anywhere along horizontal mounting channels (see Sections B-B for limitations). Half-length panels can be located in the upper or lower portion of the enclosure. Some assembly is required.

Panels are finished with white polyester powder paint or a conductive, corrosion-resistant coating and furnished with plated mounting hardware.

Center support is furnished with each full panel or half panel for two-door enclosures. The center support attaches to the top and bottom mounting channels and can be positioned from front to back in the enclosure. The center support can be used with heavy duty panel supports to support panels of various heights.

Catalog Number	Description	Finish	Fits Enclosure A x B (in.)	Fits Enclosure A x B (mm)	Panel Size (in.)	Panel Size (mm)	G (in.)	G (mm)
A60P48F1	Full Panel	Painted Steel	60.00 x 48.00	1524 x 1219	48.00 x 44.00	1219 x 1118	23.12	587
A60P48F1G	Full Panel	Conductive	60.00 x 48.00	1524 x 1219	48.00 x 44.00	1219 x 1118	23.12	587
A72P48F1	Full Panel	Painted Steel	72.00 x 48.00	1829 x 1219	60.00 x 44.00	1524 x 1118	29.12	740
A72P48F1G	Full Panel	Conductive	72.00 x 48.00	1829 x 1219	60.00 x 44.00	1524 x 1118	29.12	740
A72P48F2	Half Panel	Painted Steel	72.00 x 48.00	1829 x 1219	30.88 x 44.00	784 x 1118	29.12	740
A72P48F2G	Half Panel	Conductive	72.00 x 48.00	1829 x 1219	30.88 x 44.00	784 x 1118	29.12	740
A90P48F1	Full Panel	Painted Steel	90.00 x 48.00	2286 x 1219	78.00 x 44.00	1981 x 1118	38.12	968
A90P48F1G	Full Panel	Conductive	90.00 x 48.00	2286 x 1219	78.00 x 44.00	1981 x 1118	38.12	968
A90P48F2	Half Panel	Painted Steel	90.00 x 48.00	2286 x 1219	39.88 x 44.00	1013 x 1118	38.12	968
A90P48F2G	Half Panel	Conductive	90.00 x 48.00	2286 x 1219	39.88 x 44.00	1013 x 1118	38.12	968
A72P60F1	Full Panel	Painted Steel	72.00 x 60.00	1829 x 1524	60.00 x 56.00	1524 x 1422	29.12	740
A72P60F1G	Full Panel	Conductive	72.00 x 60.00	1829 x 1524	60.00 x 56.00	1524 x 1422	29.12	740
A72P60F2	Half Panel	Painted Steel	72.00 x 60.00	1829 x 1524	30.88 x 56.00	784 x 1422	29.12	740
A72P60F2G	Half Panel	Conductive	72.00 x 60.00	1829 x 1524	30.88 x 56.00	784 x 1422	29.12	740
A72P72F1	Full Panel	Painted Steel	72.00 x 72.00	1829 x 1829	60.00 x 68.00	1524 x 1727	29.12	740
A72P72F1G	Full Panel	Conductive	72.00 x 72.00	1829 x 1829	60.00 x 68.00	1524 x 1727	29.12	740
A72P72F2	Half Panel	Painted Steel	72.00 x 72.00	1829 x 1829	30.88 x 68.00	784 x 1727	29.12	740
A72P72F2G	Half Panel	Conductive	72.00 x 72.00	1829 x 1829	30.88 x 68.00	784 x 1727	29.12	740
A90P72F1	Full Panel	Painted Steel	90.00 x 72.00	2286 x 1829	78.00 x 68.00	1981 x 1727	38.12	968
A90P72F1G	Full Panel	Conductive	90.00 x 72.00	2286 x 1829	78.00 x 68.00	1981 x 1727	38.12	968
A90P72F2	Half Panel	Painted Steel	90.00 x 72.00	2286 x 1829	39.88 x 68.00	1013 x 1727	38.12	968
A90P72F2G	Half Panel	Conductive	90.00 x 72.00	2286 x 1829	39.88 x 68.00	1013 x 1727	38.12	968



SIDE-MOUNTED PANELS

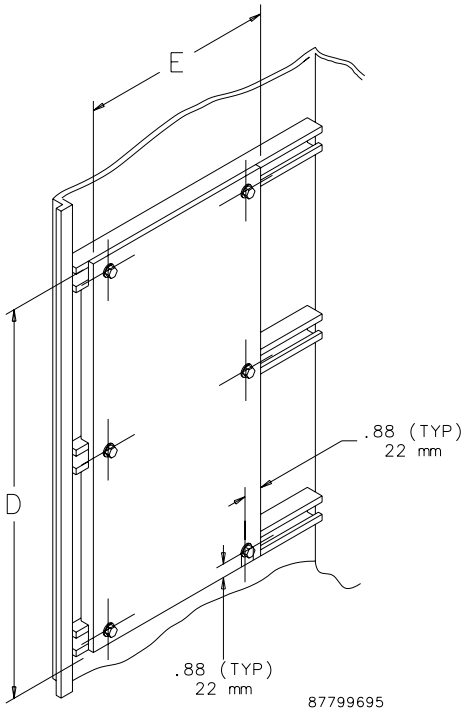
Panels provide extra mounting space on the sides of enclosures. 12 gauge steel side-mounting panels are painted white. Conductive panels are steel with a conductive, corrosion-resistant coating. Panels attach securely to mounting channels. Plated steel mounting hardware is furnished.

BULLETIN: PNL30

Catalog Number	Description	Panel Size D x E in./mm	Fits Enclosure A in./mm
A60SMP14	Painted steel	48.00 x 14.00 1219 x 356	60.00 1524
A60SMP14G	Conductive	48.00 x 14.00 1219 x 356	60.00 1524
A72SMP14	Painted steel	60.00 x 14.00 1524 x 356	72.00 1829
A72SMP14G	Conductive	60.00 x 14.00 1524 x 356	72.00 1829
A72SMP20	Painted steel	60.00 x 20.00 1524 x 508	72.00 1829
A72SMP20G	Conductive	60.00 x 20.00 1524 x 508	72.00 1829
A90SMP14	Painted steel	78.00 x 14.00 1981 x 356	90.00 2286
A90SMP14G	Conductive	78.00 x 14.00 1981 x 356	90.00 2286
A90SMP20	Painted steel	78.00 x 20.00 1981 x 508	90.00 2286
A90SMP20G	Conductive	78.00 x 20.00 1981 x 508	90.00 2286

A90SMP14 and A90SMP14G will not fit 18.06-in.deep two-door enclosures (FSD style) if regular panel is also installed.

A90SMP20 and A90SMP20G will not fit 20.12-in. deep enclosures. Will not fit 24.12-in. deep two-door enclosures (FSD style) if regular panel is also installed.

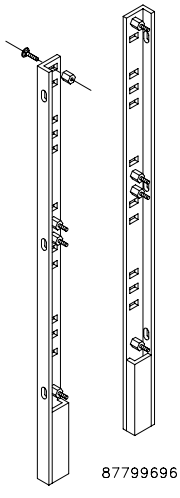


HEAVY DUTY PANEL SUPPORTS

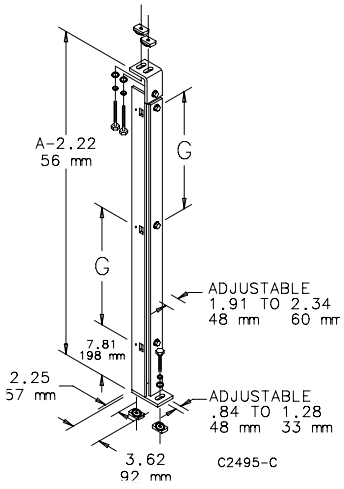
Heavy Duty Panel Supports, sold in pairs, are used in place of the panel supports furnished with panels when heavy equipment will be installed on the panels. They extend to the bottom of the enclosure. Adjustable mounting studs allow mounting of different height panels or a combination of panels. Use mounting hardware furnished with panels.

BULLETIN: A80

Catalog Number	Fits Enclosure A in./mm	Support Length in./mm
A60FSHDPS	60.00 1524	57.25 1454
A72FSHDPS	72.00 1829	69.25 1759
A90FSHDPS	90.00 2286	87.25 2216



CENTER PANEL SUPPORTS



Center panel supports are used with Free-Stand Type 12 (Bulletin A30) two-door enclosures. They permit the installation of panels, swing-out panels and rack-mounting angles sized for one-door enclosures. The Center Panel Support can be positioned from front to back of the enclosure.

BULLETIN: A80

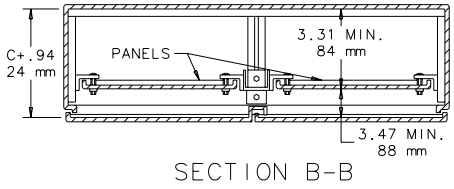
Standard Product **Panel Supports**

Catalog Number	Fits Enclosure A (in.)	Fits Enclosure A (mm)	G (in.)	G (mm)
A60FSCPS	60.00	1524	23.12	587
A72FSCPS	72.00	1829	29.12	740
A90FSCPS	90.00	2286	38.12	968

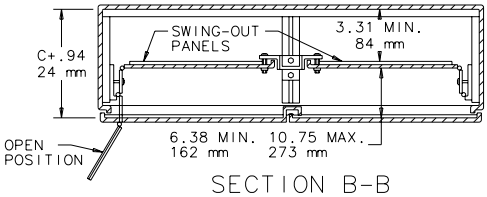
Accessory Width with Center Panel Supports

Two Door Enclosure Width (in.)	Two Door Enclosure Width (mm)	Accessory Width (in.)	Accessory Width (mm)
48.00	1219	24.00	610
60.00	1524	30.00	762
72.00	1829	36.00	914

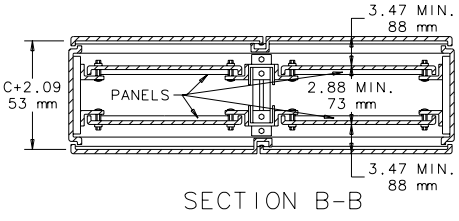
Center Panel Supports Enclosure Section Views



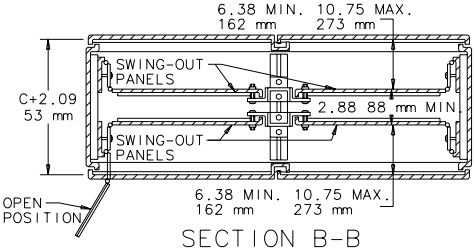
Showing two panels (for one-door enclosures)and center panel support mounted in two-door enclosure.



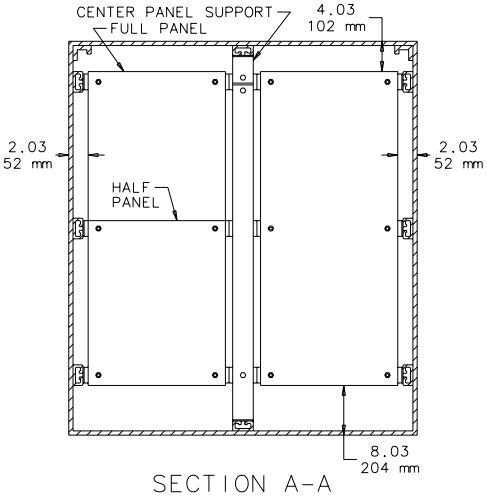
Showing four swing-out panels and center panel support mounted in two-door enclosure.



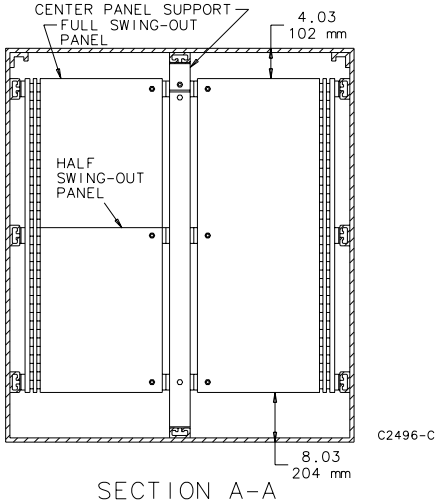
Showing four panels (for one-door enclosures) and two center panel supports mounted in two-door access enclosure.



Showing four swing-out panels and two center panel supports mounted in two-door dual access enclosure.



Panels shown are for one-door free-stand enclosures. Half panel fits in top or bottom half of enclosure.



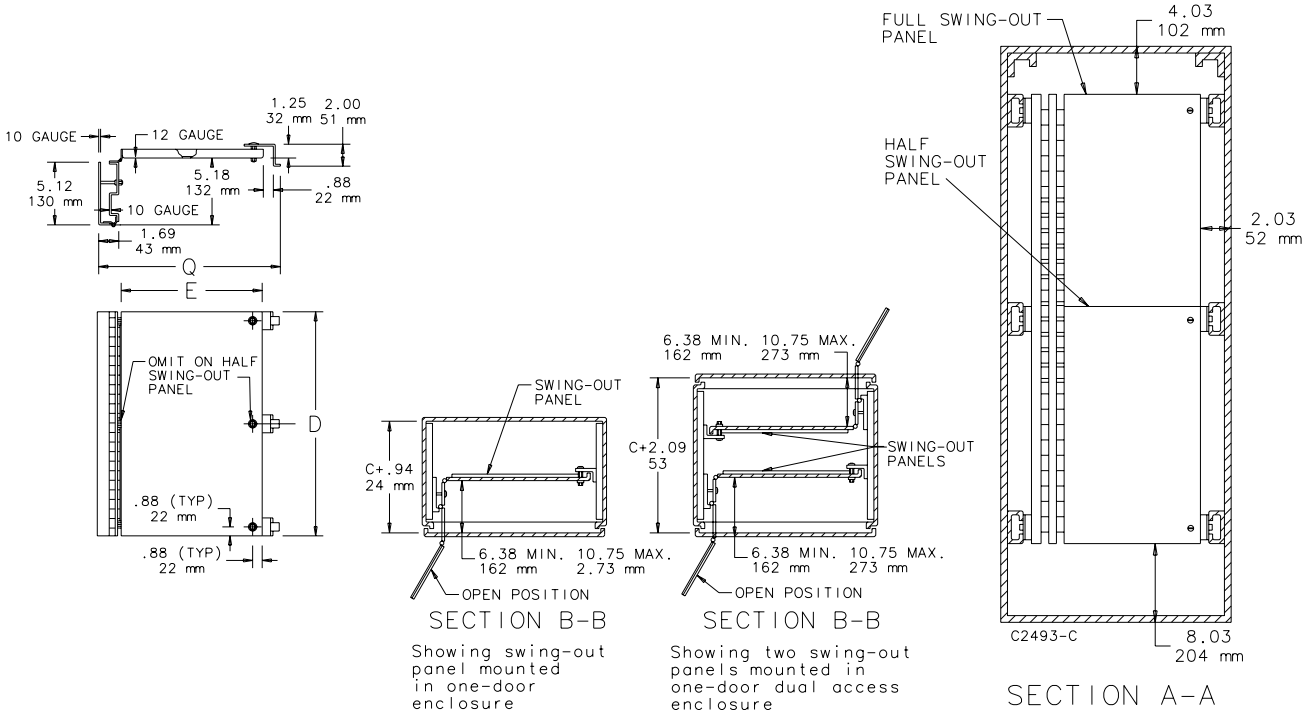
Showing swing-out panels installed in one-door enclosure.

SWING-OUT PANELS FOR FREE-STAND TYPE 4, 4X AND 12 ENCLOSURES WITH MOUNTING CHANNEL

Panels for Free-Stand Type 12 Enclosures, Free-Stand Type 4 Enclosures and One-Door Type 4X Free-Stand Fiberglass Enclosures. Full-length and half-length swing-out panels are available. Half-length panels can be located in the upper or lower portion of the enclosures. Swing-out panels have a 10 gauge steel support frame and two heavy-gauge continuous hinges which permit the panel to swing completely out of the enclosure if it is located within approximately 10.75 in. (273 mm) of the door. These panels are 12 gauge steel and can be mounted on either side of the enclosure. Panels are finished with white polyester powder paint and furnished with plated mounting hardware.

BULLETIN: PNL30

Catalog Number	Description	Panel Size D x E (in.)	Panel Size D x E (mm)	Fits Enclosure A x B (in.)	Fits Enclosure A x B (mm)	Q (in.)	Q (mm)
A72SP24F3	Full Panel	60.00 x 18.81	1524 x 478	72.00 x 24.00	1829 x 610	21.84	555
A72SP24F4	Half Panel	30.88 x 18.81	784 x 478	72.00 x 24.00	1829 x 610	21.84	555
A72SP30F3	Full Panel	60.00 x 24.81	1524 x 630	72.00 x 30.00	1829 x 762	27.84	707
A72SP30F4	Half Panel	30.88 x 24.81	784 x 630	72.00 x 30.00	1829 x 762	27.84	707
A72SP36F3	Full Panel	60.00 x 30.81	1524 x 783	72.00 x 36.00	1829 x 914	33.84	860
A72SP36F4	Half Panel	30.88 x 30.81	784 x 783	72.00 x 36.00	1829 x 914	33.84	860
A90SP36F3	Full Panel	78.00 x 30.81	1981 x 783	90.00 x 36.00	2286 x 914	33.84	860
A90SP36F4	Half Panel	39.88 x 30.81	1013 x 783	90.00 x 36.00	2286 x 914	33.84	860

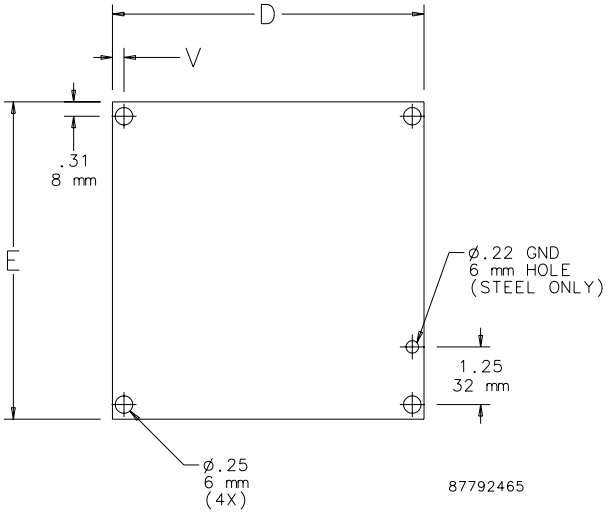


PANELS FOR WIFI CABINETS AND SMALL WALL-MOUNT ENCLOSURES

Panels are available in both steel and wood. Steel panels are 14 gauge steel with a white polyester powder paint finish. Wood panels are 3/4-in. plywood and are unfinished. Wood panels are supplied with Fiberglass Hinged-Cover and POLYPRO Type 4X WiFi Cabinets.

BULLETIN: DWS12, PNLJ, PNLWM

Catalog Number	Material	Panel Size D x E (in.)	Panel Size D x E (mm)	V (in.)	V (mm)
A6P6	Steel	4.88 x 4.88	124 x 124	0.31	8
A6P6WD	Wood	4.88 x 4.88	124 x 124	0.31	8
A16P14	Steel	14.75 x 12.88	375 x 327	0.25	6
A16P14WD	Wood	14.75 x 12.88	375 x 327	0.25	6
A18P16	Steel	16.75 x 14.88	425 x 378	0.25	6
A18P16WD	Wood	16.75 x 14.88	425 x 378	0.25	6

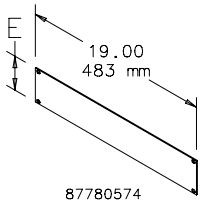


RACK PANEL FOR 19-IN. RACKS

Used to cover unused rack space in cabinets or open frame racks for a finished appearance. Can also be used for surface mounting small devices. Panels are flat with mounting slots spaced at 19-in. EIA standard spacing. Made of 12 gauge steel with RAL 9005 black polyester powder paint finish. Mounting hardware sold separately.

BULLETIN: DOFRY

Catalog Number	Rack Units	E (in.)	E (mm)
P19RPP1UB	1	1.75	44
P19RPP2UB	2	3.50	89
P19RPP3UB	3	5.25	133
P19RPP4UB	4	7.00	178
P19RPP5UB	5	8.75	222
P19RPP6UB	6	10.50	267



TOOL-LESS (SNAP-IN) BLANKING PANELS FOR 19-IN. RACKS

These Tool-less 19-in. Blanking Panels provide easy tool-less installation and ensure proper airflow to equipment. Made of UL approved thermal plastic material with a low-gloss textured black finish. May be used with tapped or square EIA universal spaced rack mounting angles.

BULLETIN: DACCY

Catalog Number	Description	Rack Units	Fits	Pkg. Qty.
D19BPT1RU	Blanking Panel, 19 in.	1	19 in., universal rack spacing, tapped or square holes	10
D19BPT2RU	Blanking Panel, 19 in.	2	19 in., universal rack spacing, tapped or square holes	10

RACK PANELS

Rack Panels are available in aluminum and painted steel. Aluminum Rack Panels are .125-in.-thick 5052-H32 alloy. Steel Rack Panels are 12 gauge steel and finished in RAL 7035 textured light-gray polyester powder paint. All panels are flat with oblong holes positioned at EIA standard spacing. Mounting hardware is sold separately.

BULLETIN: P20

Catalog Number	Material	Rack Angle Size	Rack Units
P19RP1UA	Aluminum	19 in.	1
P19RP1UP	Steel	19 in.	1
P19RP2UA	Aluminum	19 in.	2
P19RP2UP	Steel	19 in.	2
P19RP3UA	Aluminum	19 in.	3
P19RP3UP	Steel	19 in.	3
P19RP4UA	Aluminum	19 in.	4
P19RP4UP	Steel	19 in.	4
P19RP5UA	Aluminum	19 in.	5
P19RP5UP	Steel	19 in.	5
P19RP6UP	Steel	19 in.	6
P19RP6UA	Aluminum	19 in.	6
P19RP7UA	Aluminum	19 in.	7
P19RP7UP	Steel	19 in.	7
P19RP8UA	Aluminum	19 in.	8
P19RP8UP	Steel	19 in.	8
P19RP9UA	Aluminum	19 in.	9
P19RP9UP	Steel	19 in.	9
P19RP10UA	Aluminum	19 in.	10
P19RP10UP	Steel	19 in.	10
P19RP11UA	Aluminum	19 in.	11
P19RP11UP	Steel	19 in.	11
P19RP12UA	Aluminum	19 in.	12
P19RP12UP	Steel	19 in.	12
P19RP16UA	Aluminum	19 in.	16
P19RP16UP	Steel	19 in.	16

PANEL LIFTING HOOKS

Used to lift a large interior panel to position it in an enclosure lying on its back and to transport a panel from one location to another. Comfortable hand grip. Plated finish.

BULLETIN: A80

Catalog Number	Description
APLH	Two lifting hooks with handles

PANEL SUPPORT KIT

Provide additional support for panels on which heavy components are mounted. Each panel support fits over a collar stud and is then adjusted so the weight of the panel is partially supported by the bottom of the enclosure. Locknuts prevent accidental change in adjustment. A polyethylene-covered base on each panel support distributes the panel weight and prevents damage to the interior finish. Constructed of heavy-gauge steel. White finish.

BULLETIN: A80

Catalog Number	Description
APS3	Two panel supports for 1-door or 2-door enclosures where distance from bottom of panel to bottom of enclosure is less than 2.25 inches (57mm).
APS9	Two panel supports for free-standing or multi-door enclosures where distance from bottom of panel to bottom of enclosure is between 2.88 inches (73mm) and 8.50 inches (216mm).

THREADED PANEL EXTENDERS

Threaded Panel Extenders are made of plated steel and designed to raise the panel mounting surface. Extenders attach to threaded internal pads. Male and female thread size is 10-32. Each kit contains 4 extenders.

BULLETIN: A80

Catalog Number	Length (in.)	Length (mm)
APE050	0.50	13
APE100	1.00	25

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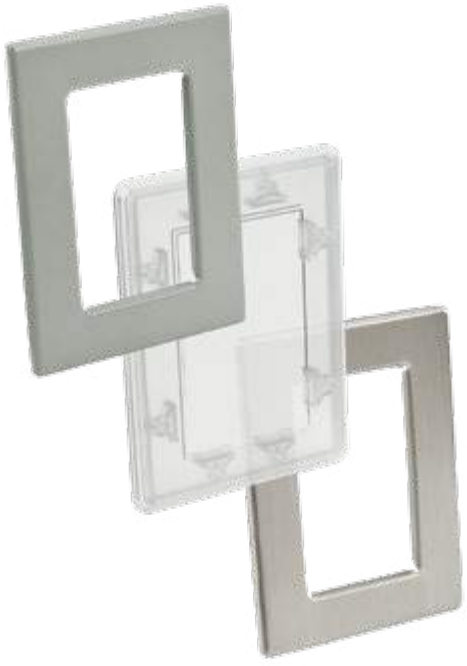
STEEL, STAINLESS STEEL AND NON-METALLIC WINDOW KITS

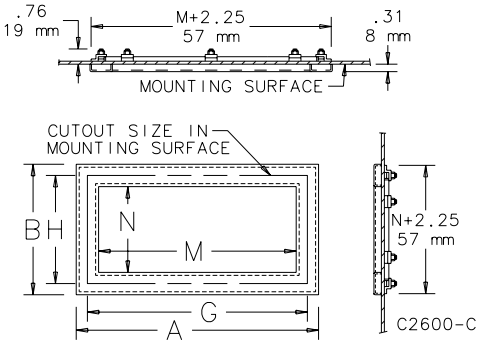


Steel Window Kits have a heavy gauge cold rolled steel formed frame (cleaned and treated for paint endurance and adhesion), painted ANSI 61 gray. The window is a clear acrylic .25-in. (16mm) scratch-resistant material. They are ideal for indoor and outdoor Type 3R, 4 and 12 applications.
Stainless Steel Window kits have a formed heavy gauge Type 304 stainless steel frame with a brushed finish. The clear window is made of .25-in. (16mm) impact-resistant polycarbonate material. They are ideal for indoor and outdoor Type 3R, 4X and 12 applications.
Non-Metallic Window kits are made of a single piece special polycarbonate blend, Makrolon, that has enhanced impact, UV, water exposure, absorption, and saturation resistance. They are ideal for indoor and outdoor Type 3R, 4, 4X and 12 applications. They are also ideal for non-metallic enclosures where exterior metallic materials are not allowed and can accommodate up to .25-in. enclosure material thickness.

All Window kits are easy to install and require a simple rectangular enclosure cutout. All required hardware is furnished, along with assembly and cut- out instructions. The gasket material on all windows is resistant to oils, cutting fluids and many other liquids. Window kits of the same size use the same interchangeable cutout.

Custom sizes for Steel and Stainless Steel Window Kits are available along with different finishes and gasket materials. Consult Hoffman for details.

BULLETIN: A80SW, A80W



INDUSTRY STANDARDS

UL 508A Component Recognized; Type 4, 4X (stainless steel and non-metallic versions only), 3R, 12; File No. E61997.
UL 746C Component Recognized (non-metallic version only).

CSA Type 4, 4X (stainless steel and non-metallic versions only), 3R, 12; File No. 42186
NEMA/EEMAC 4, 4X (stainless steel and non-metallic versions only), 3R, 12
IEC 60529, IP66

Catalog Number	AxB in.	AxB mm	Material	Window Size M x N (in.)	Window Size M x N (mm)	Required Cutout Size G x H (in.)	Required Cutout Size G x H (mm)
APWK53NF	7.50 x 5.50	191 x 140	Steel	5.00 x 3.00	127 x 76	6.69 x 4.69	170 x 119
APWK53NFSS	7.50 x 5.50	191 x 140	Stainless Steel	5.00 x 3.00	127 x 76	6.69 x 4.69	170 x 119
APWK53NFNM	7.62 x 5.62	194 x 143	Polycarbonate	5.00 x 3.00	127 x 76	6.78 x 4.78	172 x 121
APWK711NFSS	9.50 x 13.50	241 x 343	Stainless Steel	11.00 x 7.00	279 x 178	8.69 x 12.69	221 x 322
APWK95NF	11.50 x 8.00	292 x 203	Steel	9.00 x 5.50	229 x 140	10.69 x 7.19	272 x 183
APWK95NFSS	11.50 x 8.00	292 x 203	Stainless Steel	9.00 x 5.50	229 x 140	10.69 x 7.19	272 x 183
APWK95NFNM	11.62 x 8.12	295 x 203	Polycarbonate	9.00 x 5.50	229 x 140	10.78 x 7.28	274 x 185
APWK116NFNM	13.62 x 8.62	346 x 219	Polycarbonate	11.00 x 6.00	279 x 152	12.78 x 7.78	325 x 198
APWK133NF	15.50 x 5.50	394 x 140	Steel	13.00 x 3.00	330 x 76	14.69 x 4.69	373 x 119
APWK138NF	15.50 x 10.50	394 x 267	Steel	13.00 x 8.00	330 x 203	14.69 x 9.69	373 x 246
APWK138NFSS	15.50 x 10.50	394 x 267	Stainless Steel	13.00 x 8.00	330 x 203	14.69 x 9.69	373 x 246
APWK138NFNM	15.62 x 10.62	397 x 270	Polycarbonate	13.00 x 8.00	330 x 203	14.69 x 9.69	375 x 248
APWK715NFSS	17.50 x 9.50	445 x 241	Stainless Steel	15.00 x 7.00	381 x 178	8.69 x 16.69	221 x 424
APWK175NF	19.50 x 8.00	495 x 203	Steel	17.00 x 5.50	432 x 140	18.69 x 7.19	475 x 183
APWK1711NF	19.50 x 13.50	495 x 343	Steel	17.00 x 11.00	432 x 279	18.69 x 12.69	475 x 322
APWK1711NFSS	19.50 x 13.50	495 x 343	Stainless Steel	17.00 x 11.00	432 x 279	18.69 x 12.69	475 x 322
APWK720NFSS	22.50 x 9.50	572 x 241	Stainless Steel	20.00 x 7.00	508 x 178	8.69 x 21.69	221 x 551
APWK2315NF	25.50 x 17.50	648 x 445	Steel	23.00 x 15.00	584 x 381	24.69 x 16.69	627 x 424
APWK2315NFSS	25.50 x 17.50	648 x 445	Stainless Steel	23.00 x 15.00	584 x 381	24.69 x 16.69	627 x 424
APWK724NFSS	26.50 x 9.50	673 x 241	Stainless Steel	24.00 x 7.00	610 x 178	8.69 x 25.69	221 x 653
APWK729NFSS	31.50 x 9.50	800 x 241	Stainless Steel	29.00 x 7.00	737 x 178	8.69 x 30.69	221 x 780
APWK2919NF	31.50 x 21.50	800 x 546	Steel	29.00 x 19.00	737 x 483	30.69 x 20.69	780 x 525
APWK2919NFSS	31.50 x 21.50	800 x 546	Stainless Steel	29.00 x 19.00	737 x 483	30.69 x 20.69	780 x 525
APWK3523NF	37.50 x 25.50	953 x 648	Steel	35.00 x 23.00	889 x 584	36.69 x 24.69	932 x 627

When determining if a window kit will fit in a door or cover, be sure to allow for gaskets, data pockets, door handles, latch rods and other parts attached to the door or cover.

FRAMELESS WINDOW KIT

Designed for use on many Type 12 and 13 enclosures. These kits are for indoor use in a temperature range of 55 F to 125 F (13 C to 52 C). For more severe conditions use Steel or Stainless Steel Window Kits. The window is scratch-resistant .12-in. (3-mm) polycarbonate. Special high-strength, double-sided tape is supplied as well as screw fasteners. Windows can be cut to smaller sizes. Allow .50-in. (13-mm) overlap on each side of window for tape.

BULLETIN: A80W

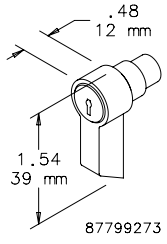
Catalog Number	Window Size in./mm	Maximum Cutout Size in./mm
APWKE52	5.50 x 3.00 140 x 76	4.50 x 2.00 114 x 51
APWKE96	9.62 x 7.19 244 x 183	8.62 x 6.19 219 x 157
APWKE133	13.88 x 3.88 353 x 99	12.88 x 2.88 327 x 73

WING KNOBS FOR CONCEPT WINDOW KITS

Knobs are optional latching for hinged windows and hinged bezels. Knobs are black and available in locking and nonlocking versions. Keylocking knob maintains Type 12 rating only.

BULLETIN: C2

Catalog Number	Description
CWKL	Wing Knob, locking
CWKN	Wing Knob, non-locking



CONCEPT FIXED AND HINGED WINDOW KITS

INDUSTRY STANDARDS

Fixed Window Kits

UL 508A, 508, File Number E61997: Type 4 and Type 12

NEMA Type 4 and 12
CSA File Number LR42186: Type 4 and Type 12
IEC 60529, IP66

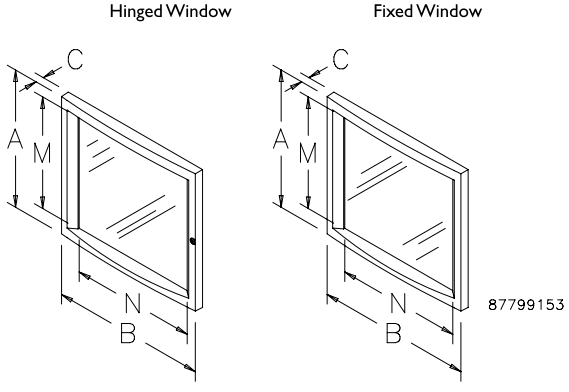
Hinged Window Kits

UL 508A, 508, File Number E61997: Type 12

NEMA Type 12
CSA File Number LR42186: Type 12
IEC 60529, IP66

APPLICATION

Aesthetic die-cast aluminum frame has .188-in. (5-mm) thick, clear polycarbonate window. Preassembled kit is secured to front opening of enclosure by four mounting screws. Furnished window frame caps conceal mounting screws. Hinged window kit is hinged on left side and has a single-point slotted latch (optional locking or non-locking wing knob latch is also available). Textured finish, ANSI 61 gray or RAL 7035 light gray.



BULLETIN: C2

Catalog Number	AxBxC in.	AxBxC mm	Finish	Description	Window Size M x N (mm)	Window Size M x N (in.)
CWF3136	12.20 x 14.17 x 1.26	310 x 360 x 32	ANSI 61	Fixed window kit	253 x 276	9.96 x 10.86
CWF3136LG	12.20 x 14.17 x 1.26	310 x 360 x 32	RAL 7035	Fixed window kit	253 x 276	9.96 x 10.86
CWH3136	12.20 x 14.17 x 1.34	310 x 360 x 34	ANSI 61	Hinged window kit	253 x 276	9.96 x 10.86
CWH3136LG	12.20 x 14.17 x 1.34	310 x 360 x 34	RAL 7035	Hinged window kit	253 x 276	9.96 x 10.86
CWF4045	15.75 x 17.72 x 1.30	400 x 450 x 33	ANSI 61	Fixed window kit	343 x 366	13.50 x 14.40
CWF4045LG	15.75 x 17.72 x 1.30	400 x 450 x 33	RAL 7035	Fixed window kit	343 x 366	13.50 x 14.40
CWH4045	15.75 x 17.72 x 1.38	400 x 450 x 35	ANSI 61	Hinged window kit	343 x 366	13.50 x 14.40
CWH4045LG	15.75 x 17.72 x 1.38	400 x 450 x 35	RAL 7035	Hinged window kit	343 x 366	13.50 x 14.40
CWF5557	21.65 x 22.44 x 1.42	550 x 570 x 36	ANSI 61	Fixed window kit	493 x 486	19.40 x 19.13
CWF5557LG	21.65 x 22.44 x 1.42	550 x 570 x 36	RAL 7035	Fixed window kit	493 x 486	19.40 x 19.13
CWH5557	21.65 x 22.44 x 1.50	550 x 570 x 38	ANSI 61	Hinged window kit	493 x 486	19.40 x 19.13

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CONCEPT DEEP HINGED WINDOW KIT

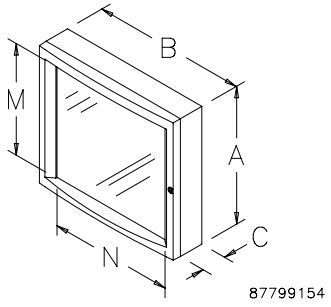
INDUSTRY STANDARDS

UL 508A, 508, File Number E61997: Type 12

NEMA Type 12
CSA File Number LR42186: Type 12
IEC 60529, IP66

APPLICATION

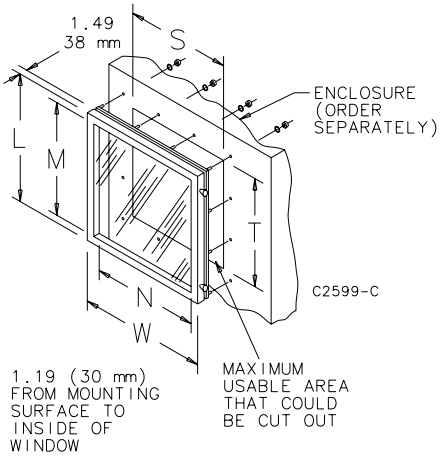
Kit is hinged on left side and has a single-point slotted latch (optional locking or non-locking wing knob latch is also available). Aesthetic die-cast aluminum frame has .188-in. (5-mm) thick, clear polycarbonate window. Two-inch space between enclosure front opening and window surface accommodates switches, lights, meters and other components. This kit can be used as an accessory window kit on larger standard Hoffman enclosure doors. Textured finish, ANSI 61 gray or RAL 7035 light gray.



BULLETIN: C2

Catalog Number	AxBxC in.	AxBxC mm	Finish	Window Size M x N (mm)	Window Size M x N (in.)
CWHD3136	12.20 x 14.17 x 3.31	310 x 360 x 84	ANSI 61	253 x 276	9.96 x 10.86
CWHD3136LG	12.20 x 14.17 x 3.31	310 x 360 x 84	RAL 7035	253 x 276	9.96 x 10.86
CWHD4045	15.75 x 17.72 x 3.39	400 x 450 x 86	ANSI 61	343 x 366	13.50 x 14.40
CWHD4045LG	15.75 x 17.72 x 3.39	400 x 450 x 86	RAL 7035	343 x 366	13.50 x 14.40
CWHD5557	21.65 x 22.44 x 3.50	550 x 570 x 89	ANSI 61	493 x 486	19.40 x 19.13

TYPE 12 HINGED WINDOW KIT



INDUSTRY STANDARDS

UL 508A Component Recognized; Type 12; File No. E61997

CSA Type 12; File No. 42186
NEMA/EEMAC Type 12
IEC 60529, IP55

For use as a viewing window where access to components mounted behind the window is required. Window is .25-in. (6-mm) clear acrylic. Easily mounted by drilling the appropriate mounting holes. All mounting hardware is provided. Continuous gaskets on all openings maintain UL Type 12 integrity. Finish is ANSI 61 gray polyester powder paint.

BULLETIN: A80W

Catalog Number	Window Size M x N in./mm	Overall L x W in./mm	S in./mm	T in./mm
APWK1212H	10.28 x 10.28 261 x 261	12.00 x 12.00 305 x 305	10.44 265	10.44 265
APWK1612H	14.28 x 10.28 363 x 261	16.00 x 12.00 406 x 305	10.44 265	14.44 367
APWK2016H	18.28 x 14.28 464 x 363	20.00 x 16.00 508 x 406	14.44 367	18.44 468
APWK2020H	18.28 x 18.28 464 x 464	20.00 x 20.00 508 x 508	18.44 468	18.44 468
APWK2420H	22.28 x 18.28 566 x 464	24.00 x 20.00 610 x 508	18.44 468	22.44 570
APWK3024H	28.28 x 22.28 718 x 566	30.00 x 24.00 762 x 610	22.44 570	28.44 722

TYPE 4 AND 4X DEEP-HINGED WINDOW KITS

INDUSTRY STANDARDS

Stainless Steel

UL 508A Listed; Type 3R, 4, 4X, 12; File No. E61997
cUL Listed per CSA C22.2, No. 94; Type 3R, 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 3R, 4, 4X, 12
IEC 60529, IP66

Mild Steel

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
IEC 60529, IP66

APPLICATION

Deep-hinged window kits provide protection, visibility and easy access to equipment and components installed behind the viewing area. Window kits are conveniently sized to allow direct mounting in the usable door area of Hoffman NEMA and CONCEPT wall-mount enclosures, as well as any Hoffman enclosure with a suitably sized mounting surface. Deep-hinged window kits provide protection, visibility and easy access to equipment and components installed behind the viewing area. These kits have an aesthetic appearance, quarter-turn latching for easy access, .25-in. (6-mm) thick, clear polycarbonate material for viewing, 2.5-in. (64-mm) depth to allow for deep controls and a built-in gasket compression stop to facilitate flush mounting. Each kit comes with a mounting template and hardware to allow for easy installation and can be mounted either left or right hinged.

SPECIFICATIONS

- Manufactured from Type 316L stainless steel or painted mild steel
- Quarter-turn latches for quick access
- 0.25-in. (6-mm) thick, clear polycarbonate windows for easy viewing
- 2.5-in. (64-mm) deep to allow for deep controls
- Built-in gasket compression stop on back of window kit facilitates flush mounting
- Designed for either left or right hinging
- Includes mounting template and mounting hardware
- Easy-to-remove clip-style hinge pin

FINISH

- Stainless steel: Enclosures are unpainted; door and body have a smooth #4 brushed finish
- Mild steel: ANSI 61 gray polyester powder paint inside and out

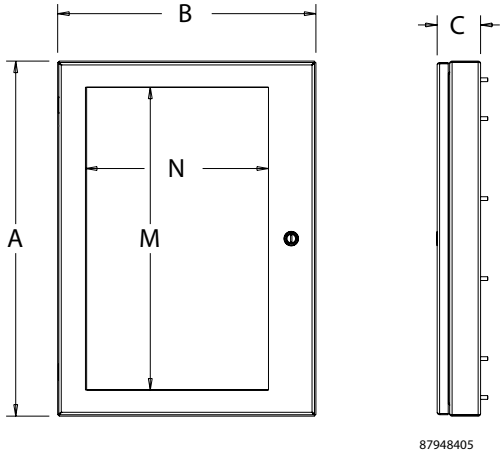
OPTIONS

Optional Handles
CWHNL - Non-locking
CWHK - Keylocking
CWHPTO - Padlocking

BULLETIN: A80SW, A80W

Standard Product

Catalog Number	AxBxC in./mm	Material	Window Size M x N in./mm	No. of Latches
AWDH1418N4	12.19 x 14.56 x 2.73 310 x 370 x 69	Steel	8.68 x 9.83 220 x 250	1
AWDH1418N4SS	12.19 x 14.56 x 2.73 310 x 370 x 69	316L Stainless steel	8.68 x 9.83 220 x 250	1
AWDH1612N4	14.19 x 8.14 x 2.73 360 x 207 x 69	Steel	10.68 x 3.41 271 x 87	1
AWDH1612N4SS	14.19 x 8.14 x 2.73 360 x 207 x 69	316L Stainless steel	10.68 x 3.41 271 x 87	1
AWDH2016N4	18.19 x 12.14 x 2.73 462 x 308 x 69	Steel	14.68 x 7.41 373 x 188	1
AWDH2016N4SS	18.19 x 12.14 x 2.73 462 x 308 x 69	316L Stainless steel	14.68 x 7.41 373 x 188	1
AWDH2416N4	22.19 x 12.14 x 2.73 564 x 308 x 69	Steel	18.68 x 7.41 474 x 188	2
AWDH2416N4SS	22.19 x 12.14 x 2.73 564 x 308 x 69	316L Stainless steel	18.68 x 7.41 474 x 188	2
AWDH2420N4	22.19 x 16.14 x 2.73 564 x 410 x 69	Steel	18.68 x 11.41 474 x 290	2
AWDH2420N4SS	22.19 x 16.14 x 2.73 564 x 410 x 69	316L Stainless steel	18.68 x 11.41 474 x 290	2
AWDH2430N4	22.19 x 26.14 x 2.73 564 x 664 x 69	Steel	18.68 x 20.22 474 x 514	2
AWDH2430N4SS	22.19 x 26.14 x 2.73 564 x 664 x 69	316L Stainless steel	18.68 x 20.22 474 x 514	2
AWDH3024N4	28.19 x 20.14 x 2.73 716 x 512 x 69	Steel	24.68 x 14.22 627 x 361	2
AWDH3024N4SS	28.19 x 20.14 x 2.73 716 x 512 x 69	316L Stainless steel	24.68 x 14.22 627 x 361	2
AWDH3624N4	34.19 x 20.14 x 2.73 868 x 512 x 69	Steel	30.68 x 14.22 779 x 361	2
AWDH3624N4SS	34.19 x 20.14 x 2.73 868 x 512 x 69	316L Stainless steel	30.68 x 14.22 779 x 361	2



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IR WINDOWS

APPLICATION

IR Windows provide a safe, efficient, and accurate way to perform electrical inspections or predictive maintenance without removing the panels or disturbing the electrical equipment.

Installing the IR Windows can help protect employees from potential arc flash hazards and comply with NFPA70E safety guidelines. The special design and feature enable quicker inspections which save money and time. Made with durable broadband crystal optic and aluminum housing materials, IR Windows can be mounted to any enclosure.

Equipped with HYDROGARD lens moisture protection, IR Windows can be installed both indoors and outdoors. IR Windows work with any thermal imager, expanding the application to many industries. Each kit comes with a self-adhesive drilling template, hardware, and step-by-step instructions for easy installation or can be pre-installed into Hoffman enclosures.

SPECIFICATIONS

- Spring-loaded cover opens and retains position. Clear cover design allows for visual inspection when closed
- Arc flash tested against a 50kA short circuit for 1 second at 11kV
- Quarter-turn locking system for quick access
- Built-in silicone gaskets for protection against water and dust ingress
- Gasket maximum temperature: 250 C/482 F; Body maximum temperature: 659 C/1218 F; Optic maximum temperature: 1400 C/2552 F.

BULLETIN: A80RW

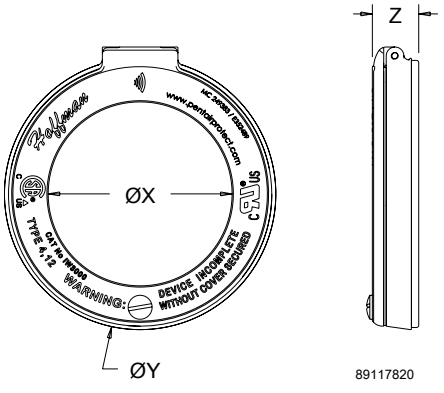
INDUSTRY STANDARDS

UL 50 Component Recognized; Type 4, 12. File No.: E362489
UL 50V Component Recognized. File No.: E362489

cCSAus Certified; Type 3, 4, 12. File No.: 249383
NEMA/EEMAC Type 3, 4, 12
IEC60529, IP65

Standard Product

Catalog Number	X in./mm	Y in./mm	Z in./mm	Description	Crystal Thickness in./mm	Viewing Area	Free diameter space required for mounting in./mm
IW3000	2.9	4.2	0.8	3-in. (75 mm) IR Window	.08	6.49 sq. in. (4186 sq. mm)	4.50
	73	107	19		2		115
IW4000	3.7	5.0	0.8	4-in. (100 mm) IR Window	.16	10.53 sq. in (6794 sq. mm)	5.50
	92	127	21		4		140



DOOR STOP KIT

Designed for use on most standard Hoffman Type 4 and 12 enclosures to secure the door in the open position. Enclosures must have a "B" dimension of 16.00 in. (406 mm) or more and a door which opens horizontally. Door Stop Kit can be mounted at the top or bottom of the door opening after drilling two small holes in the body of the enclosure and two small holes in the door. The angle of the door is easily adjusted by means of a wingnut, and the stop arm slides neatly out of the way when the door is closed. All parts are plated. Maintains UL/CSA Type 4 and Type 12 if properly installed in a Hoffman enclosure. Door Stop Kit is not intended for use on CONCEPT window door enclosures, or enclosures configured with a swing-out panel or swing-out rack frame.

BULLETIN: A80

Catalog Number	Description
ADSTOPK	Door Stop Kit

TYPE 316 STAINLESS STEEL DOOR STOP KIT

APPLICATION

Type 316 stainless steel door stop kit is available for use in applications that require the kind of corrosion protection that only Type 316 stainless steel can provide. Typical applications include water treatment, pulp, paper, petroleum, chemical, food and pharmaceutical processing, and packaging. Kit includes all mounting hardware. Secures doors in the open position. Can be mounted at either top or bottom of door. Can be installed on either left- or right-hinged doors. Maintains an enclosure's Type 4X rating. Easy to install. Mounting hardware is Type 316 stainless steel. This door stop kit can be mounted in large and wall-mount enclosures.

FEATURES

- Can be mounted at either top or bottom of door
- Can be installed on either left- or right-hinged doors
- Maintains an enclosure's Type 4X rating
- Easy to install

SPECIFICATIONS

- Kit, including mounting hardware, constructed of Type 316 stainless steel

BULLETIN: A4SY

Catalog Number	Description
ADSTOPKSS6	Type 316 stainless steel door stop kit

LARGE ENCLOSURE DOOR STOP KIT

Designed for use with most standard, large mild and stainless steel enclosures to secure the door in the 90 degree open position. Door Stop Kit can be mounted at the top or bottom of the door opening after drilling two small holes in the door and enclosure. All parts are plated. Maintains UL/CSA Type 4 and Type 12 if properly installed in a Hoffman enclosure.

BULLETIN: A80

Catalog Number	Description
ALGDSTOP2	Large Enclosure Door Stop Kit

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GASKET KITS

APPLICATION

Gasket kits are ideal to replace damaged or worn foam-in-place or strip enclosure gaskets. Available in either EPDM and silicone material, these gasket kits allows replacement of current gasket as well as provides a solution to upgrade enclosure gasket for harsh applications. Kits offered with different sized gaskets is suitable to be used on either wall mount or large enclosures.

FEATURES

- Positioned inside enclosure door, providing a sealing barrier between the enclosure housing and door
- EPDM gasket kits are ideal to replace damaged or worn enclosure gasket
- Silicon gasket provides a secure sealing to protect against water and dust ingress in extreme temperatures
- Silicone gaskets are ideal to replace current silicone gasket and can be used to upgrade current gasket for harsh applications
- Strip gasket is field-installable with included sealant and instructions

INDUSTRY STANDARDS

UL 508A Component Recognized; Type 4, 4x, 12; File No. E61997
cUL Component Recognized per CSA C22.2 No 94; File No. E61997

Suitable for field installation for door, cover and gland plate sealing on Hoffman enclosure models rated Types 4, 4X and 12.

SPECIFICATIONS

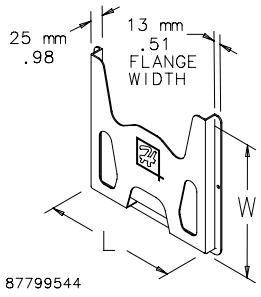
- EPDM Gaskets available in .28 in. (6 mm) thick by .63 in. (16 mm) wide for wall-mount enclosures
- EPDM Gaskets available in .38 in. (10 mm) thick by 1 in. (25 mm) wide for large enclosures
- Silicone gaskets available in .25 in. (6 mm) thick by .50 in. (13 mm) wide for wall-mount enclosures
- Silicone gaskets available in .38 in. (10 mm) thick by 1 in. (25 mm) wide for large enclosures
- Each kit includes a 20-ft. roll of strip gasket

BULLETIN: A80

Standard Product

Catalog Number	Description	Material	Thickness in./mm	Width in./mm
GSKTKITE025	Gasket Kit EPDM .28 x .63	EPDM	.28 7	.63 16
GSKTKITE375	Gasket Kit EPDM .38 x 1.00	EPDM	.38 10	1.00 25
GSKTKITS025	Gasket Kit Silicone .25 x .50	Silicone	.25 6	.50 13
GSKTKITS375	Gasket Kit Silicone .38 x 1.00	Silicone	.38 10	1.00 25

THERMOPLASTIC DATA POCKET

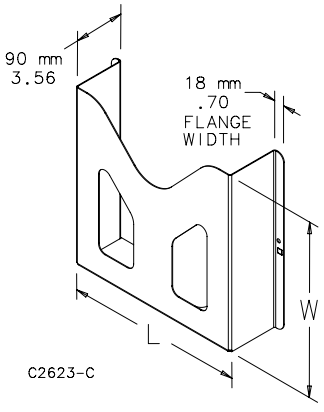


Provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure. Adhesive-backed pockets mount inside the solid enclosure cover. Mounting hardware included. Thermoplastic pockets are dark gray and have cut-away areas for easy inspection of contents.

BULLETIN: A80DP

Catalog Number	Description	Size L x W in./mm
ADP1	Small pocket	6.00 x 6.00 152 x 152
ADP2	Large pocket	12.00 x 12.00 305 x 305

METAL DATA POCKET



Three-inch (76-mm) deep Metal Data Pocket provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure. Large enough to store 3-ring binders. Mounting hardware is included. Painted white and has cut-away areas for easy inspection of contents.

BULLETIN: A80DP

Catalog Number	Fits A x B in./mm	Size L x W in./mm
ADP3	greater than or equal to 30.00 x 24.00 greater than or equal to 762 x 610	12.00 x 12.00 305 x 305

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EXTERNAL DATA POCKETS, TYPE 4/4X/12

Mild steel coated with polyester powder paint

Type 304 stainless steel

INDUSTRY STANDARDS

Mild Steel Models:

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per C22.2 No. 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
IEC 60529, IP66

Stainless Steel Models:

UL 508A Listed; Type 4, 4X, 12; File No. E61997
cUL Listed per C22.2 No. 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

APPLICATION

Mounted on the exterior of an enclosure, Data Pockets allow access to system documentation without having to open the enclosure door.

FEATURES

- Available in mild steel or stainless steel to match the enclosure finish
- Foam-in-place gasket to protect documentation from harsh environments
- Hinged front for easy access to contents
- Three sizes accommodate a wide variety of documents
- Sloped top sheds liquids and prevents accumulation of extraneous material
- Optional wing knob and keylock inserts available for additional security

SPECIFICATIONS

- 16 gauge steel or 16 gauge Type 304 stainless steel
- Front of pocket hinges away from frame

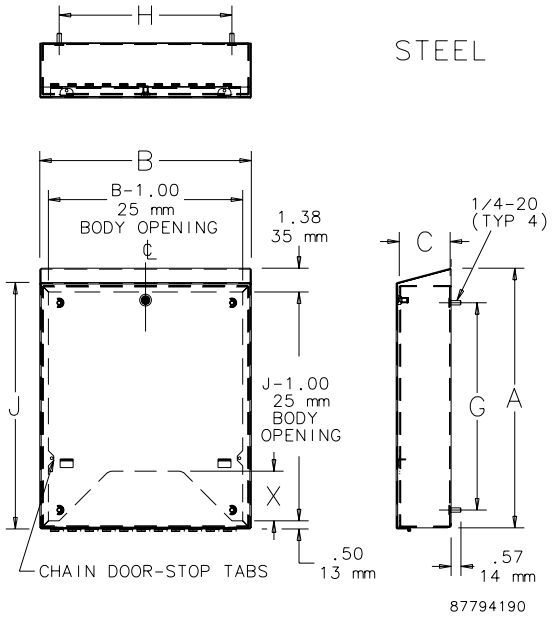
FINISH

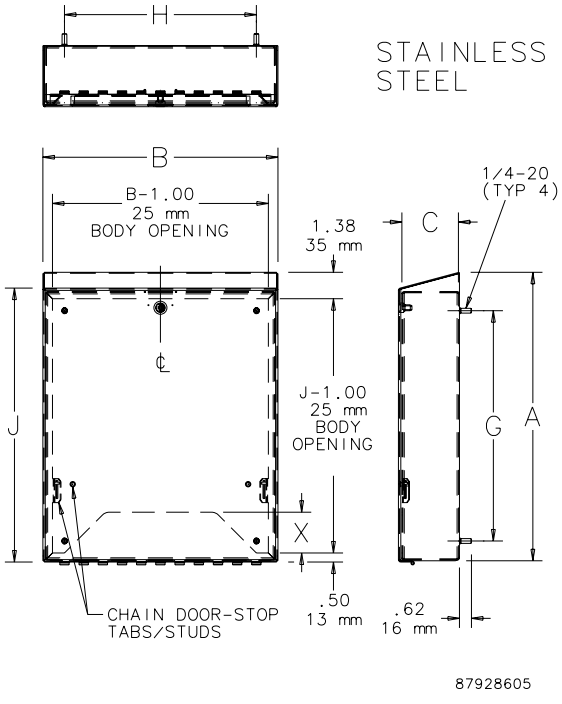
Mild steel models are either ANSI 61 medium-gray or RAL 7035 light-gray polyester powder finish inside and out. Stainless steel models have brushed finish.

BULLETIN: A80DP

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Finish	G (in.)	G (mm)	H (in.)	H (mm)	J (in.)	J (mm)
ADPX4A	14.00 x 12.00 x 3.00	356 x 305 x 76	ANSI 61 paint	12.00	305	10.00	254	14.25	362
ADPX4ALG	14.00 x 12.00 x 3.00	356 x 305 x 76	RAL 7035 paint	12.00	305	10.00	254	14.25	362
ADPX4ASS	14.00 x 12.00 x 3.00	356 x 305 x 76	Brushed stainless steel	12.00	305	10.00	254	14.25	362
ADPX4B	6.00 x 6.00 x 3.00	152 x 152 x 76	ANSI 61 paint	4.00	102	4.00	102	6.25	159
ADPX4BLG	6.00 x 6.00 x 3.00	152 x 152 x 76	RAL 7035 paint	4.00	102	4.00	102	6.25	159
ADPX4BSS	6.00 x 6.00 x 3.00	152 x 152 x 76	Brushed stainless steel	4.00	102	4.00	102	6.25	159
ADPX4C	12.00 x 18.00 x 3.25	305 x 457 x 83	ANSI 61 paint	10.00	254	16.00	406	12.25	311
ADPX4CLG	12.00 x 18.00 x 3.25	305 x 457 x 83	RAL 7035 paint	10.00	254	16.00	406	12.25	311
ADPX4CSS	12.00 x 18.00 x 3.25	305 x 457 x 83	Brushed stainless steel	10.00	254	16.00	406	12.25	311


H
STEEL
B
B-1.00
25 mm
BODY OPENING
1.38
35 mm
1/4-20
(TYP 4)
C
J
J-1.00
25 mm
BODY
OPENING
G
A
X
CHAIN DOOR-STOP TABS
.50
13 mm
.57
14 mm
87794190

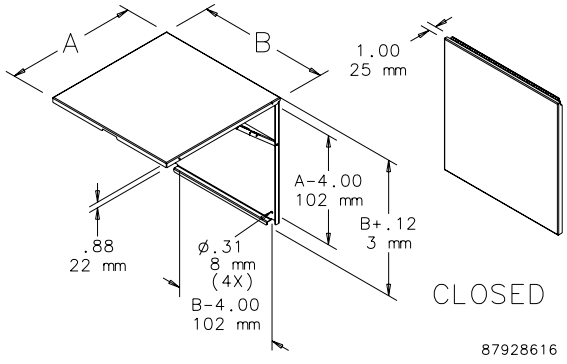

H
STAINLESS
STEEL
B
B-1.00
25 mm
BODY OPENING
1.38
35 mm
1/4-20
(TYP 4)
C
J
J-1.00
25 mm
BODY
OPENING
G
A
X
CHAIN DOOR-STOP
TABS/STUDS
.50
13 mm
.62
16 mm
87928605

STAINLESS STEEL FOLDING SHELF

Supports instruments and test equipment used to install and maintain electrical components in an enclosure. Also ideally suited for supporting laptop computers, monitoring units and other equipment used with programmable controllers. The shelf can be installed on the inside or outside surface of larger Hoffman industrial enclosures (except PROLINE). Automatically locks in the horizontal position when raised. When not in use, the shelf folds down and projects only 1 in. (25 mm) from the mounting surface. Constructed of 304 stainless steel with a brushed finish. Maintains UL/CSA Type 4, 4X and 12 rating when properly installed on a Hoffman enclosure.

BULLETIN: A80

Catalog Number	Size AxB in./mm	Maximum Distributed Load Rating (lb.)	Maximum Distributed Load Rating (kg)
ACSHELF1212SS	12.00 x 12.00 305 x 305	150	68
ACSHELF1818SS	18.00 x 18.00 457 x 457	150	68
ACSHELF2424SS	24.00 x 24.00 610 x 610	150	68

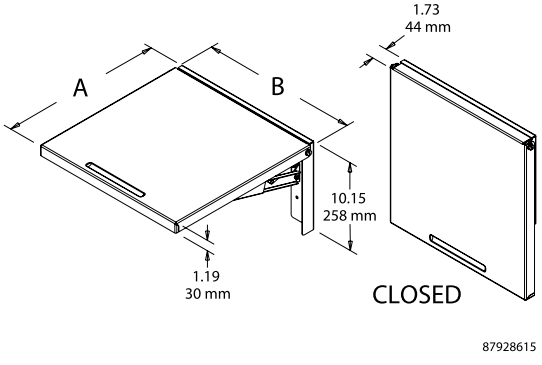


LARGE FOLDING SHELF

Supports instruments and test equipment used to install and maintain electrical components in an enclosure. Also ideally suited for supporting laptop computers, monitoring units and other equipment used with programmable controllers. The shelf can be installed on the inside or outside surface of larger Hoffman industrial enclosures (except PROLINE). Automatically locks in the horizontal position when raised. When not in use, the shelf folds to 1.73 in. (44 mm) from the mounting surface. All parts are heavy gauge steel. Maintains UL/CSA Type 4 and 12 when properly intalled on a Hoffman enclosure.

BULLETIN: ASHLF

Catalog Number	Size AxB in./mm	Maximum Distributed Load Rating (lb.)	Maximum Distributed Load Rating (kg)	Finish
AASHLF1218	18.00 x 12.00 457 x 305	150	68	White
AA61SHLF1218	18.00 x 12.00 457 x 305	150	68	Gray
AA35SHLF1218	18.00 x 12.00 457 x 305	150	68	Light gray
AASHLF1818	18.00 x 18.00 457 x 457	150	68	White
AA61SHLF1818	18.00 x 18.00 457 x 457	150	68	Gray
AA35SHLF1818	18.00 x 18.00 457 x 457	150	68	Light gray
AASHLF2424	24.00 x 24.00 610 x 610	150	68	White
AA61SHLF2424	24.00 x 24.00 610 x 610	150	68	Gray
AA35SHLF2424	24.00 x 24.00 610 x 610	150	68	Light gray

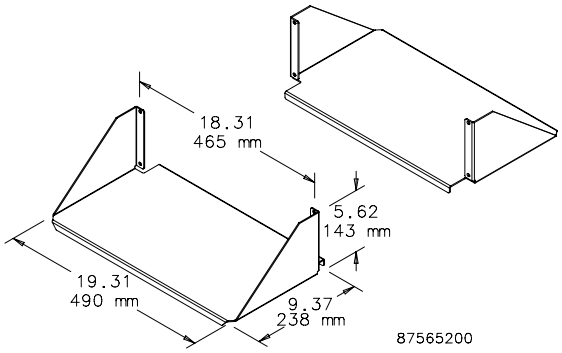


DOUBLE-SIDED SOLID ALUMINUM SHELF

Mounts on 19-in. open frame rack. Two shelves form double-sided shelf. Uses 4U rack space. Made of 0.090-in. thick aluminum with brushed finish.
Maximum load rating: 100 lb. (45.4 kg) per side, 200 lb. (90.7 kg) total

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Includes	Rack Units
ESHDA19	5.62 x 19.31 x 9.37 143 x 490 x 238	19 in.	2 shelves	4

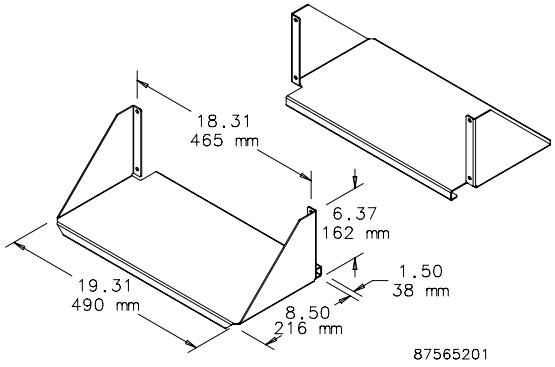


DOUBLE-SIDED, SOLID ALUMINUM, HEAVY DUTY SHELF

Mounts on open frame rack. Two shelves form double-sided shelf. Uses 4U rack space. Made of 0.090-in. thick aluminum with brushed finish.
Maximum Load Rating: 150 lb. (68.0 kg) per side, 300 lb. (136.1 kg) total

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Includes	Rack Units
ESHDHDA19	6.37 x 19.31 x 10.00 162 x 490 x 254	19 in.	2 shelves	4

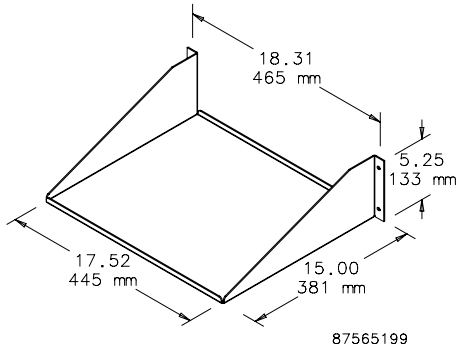


SINGLE-SIDED SOLID ALUMINUM SHELF

Mounts in a cabinet or on a 19-in. open-frame rack and can be wall mounted. Made of 0.090-in. thick aluminum with brushed finish.
Maximum load rating: 100 lb. (45.4 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESHA19	5.25 x 18.31 x 15.00 133 x 465 x 381	19 in.	3

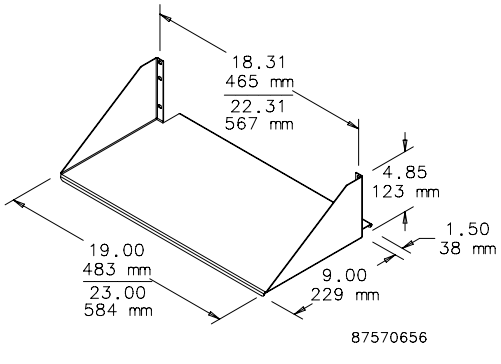


SINGLE-SIDED SOLID-STEEL SHELF

Solid shelf mounts to either front or rear flange of open-frame rack. Uses 3U of rack space. Steel with textured black finish.
Load rating: 150 lb. (68.0 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESH19S	4.85 x 19.00 x 10.50 123 x 483 x 267	19 in.	3
ESH23S	4.85 x 23.00 x 10.50 123 x 584 x 267	23 in.	3

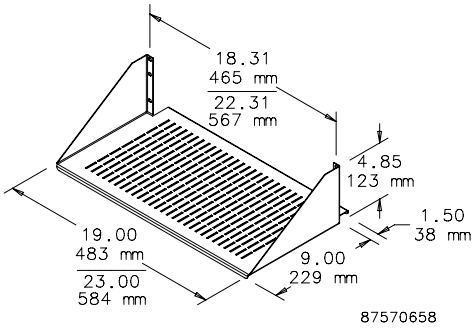


SINGLE-SIDED STEEL VENTED SHELF

Vented shelf mounts to either front or rear flange of open-frame rack. Steel with textured black polyester powder paint finish.
Load rating: 150 lb. (68.0 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESH19V	4.85 x 19.00 x 10.50 123 x 483 x 267	19 in.	3
ESH23V	4.85 x 23.00 x 10.50 123 x 584 x 267	23 in.	3

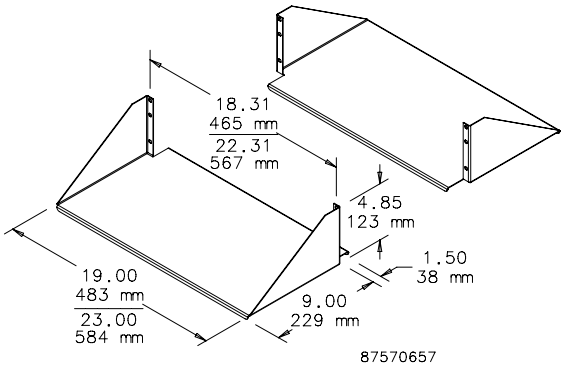


DOUBLE-SIDED SOLID-STEEL SHELF

Solid double-deep shelf mounts to both front and rear flanges of open frame rack. Steel with textured black polyester powder paint finish.
Load rating: 300 lb. (136.1 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESHD19	4.85x 19.00 x 10.50 123 x 483 x 267	19 in.	3
ESHD23	4.85 x 23.00 x 10.50 123 x 584 x 267	23 in.	3

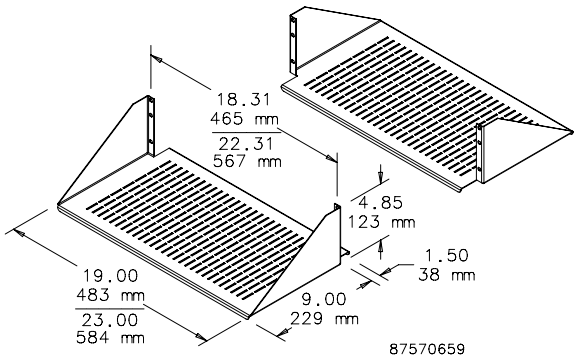


DOUBLE-SIDED STEEL VENTED SHELF

Vented, double-deep shelf mounts to both front and rear flanges of open frame rack. Steel with textured black polyester powder paint finish.
Load rating: 300 lb. (136.1 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESHDV19	4.85 x 19.00 x 10.50 123 x 483 x 267	19 in.	3
ESHDV23	4.85 x 23.00 x 10.50 123 x 584 x 267	23 in.	3

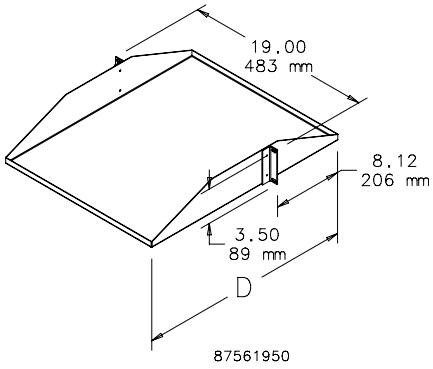


CENTER-MOUNT STEEL SHELVES

19-in. shelf mounts to the front of the rack. Ideal for supporting monitors or computers. Designed to evenly distribute load across the rack. Manufactured from 16 gauge steel. Black, low-gloss, light-textured polyester powder paint finish on all surfaces.
Load rating: 100 lb. (45.4 kg)

BULLETIN: DOFRC

Catalog Number	H x W x D in./mm	Style	Rack Units
ECMS1918	3.50 x 19.00 x 18.00 89 x 483 x 457	Solid	2
ECMS1922	3.50 x 19.00 x 22.00 89 x 483 x 559	Solid	2
ECMSV1918	3.50 x 19.00 x 18.00 89 x 483 x 457	Vented	2
ECMSV1922	3.50 x 19.00 x 22.00 89 x 483 x 559	Vented	2

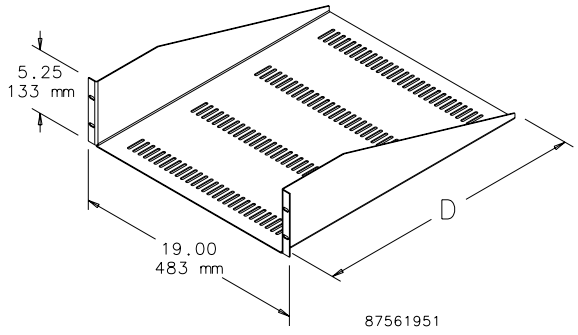


RACK-MOUNT STEEL SHELF

19-in. Rack-Mount Shelf mounts to the front of the rack. Ideal for holding non-19-in. rack-mount equipment. Available with or without vents. Manufactured from 16 gauge steel. Black, low-gloss, lightly-textured finish on all surfaces.
Load rating: 100 lb. (45.4 kg)

BULLETIN: DOFRC

Catalog Number	H x W x D in./mm	Style	Rack Units
EMS1918	5.25 x 19.00 x 18.00 133 x 483 x 457	Solid	3
EMS1922	5.25 x 19.00 x 22.00 133 x 483 x 559	Solid	3
EMSV1918	5.25 x 19.00 x 18.00 133 x 483 x 457	Vented	3
EMSV1922	5.25 x 19.00 x 22.00 133 x 483 x 559	Vented	3

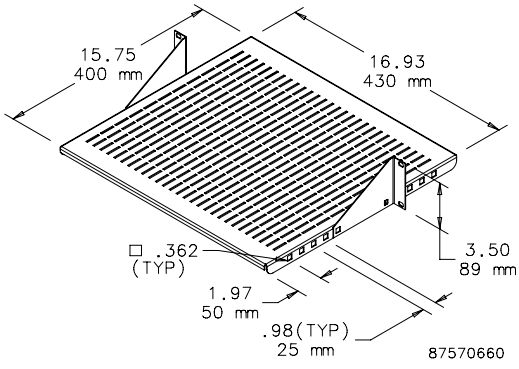


ADJUSTABLE STEEL VENTED SHELF

Vented shelf adjustable front to back in 25-mm increments. Shelf mounts to either front or rear flange of open frame rack. Steel with textured black polyester powder paint finish.
Load rating: 60 lb. (27.2 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESHVA19	3.50 x 16.93 x 15.75 89 x 430 x 400	19 in.	2
ESHVA23	3.50 x 19.93 x 15.75 89 x 506 x 400	23 in.	2

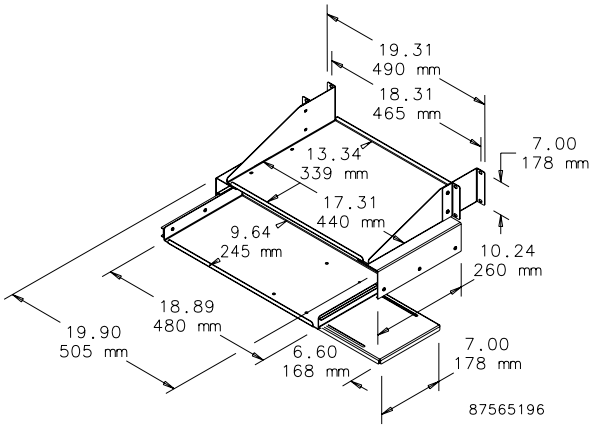


PULLOUT KEYBOARD TRAY WITH MONITOR SHELF

Mounts to the front and back surfaces of a standard 3-in. open frame rack. Fits full-size keyboard. Includes mouse tray. Extends 10.5 in. (267 mm) beyond front of open frame rack. Keyboard tray slides out an additional 7 in. (178 mm). Uses 4U rack space. 16 gauge steel with RAL 9005 black polyester powder paint finish. Monitor shelf load rating: 100 lb. (45.4 kg)

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
E19SKBM	7.00 x 19.90 x 10.24 178 x 505 x 260	19 in.	4

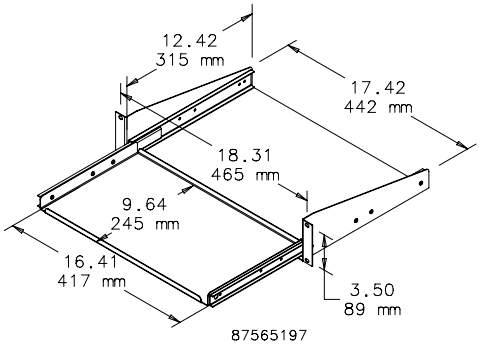


PULL-OUT SHELF FOR MINI KEYBOARD

Pull-Out Shelf for Mini Keyboard mounts either in a cabinet or on a 19-in. open-frame rack and fits a 16.25-in. (413-mm) wide keyboard. When closed, all parts slide between rack angles. Keyboard tray slides out 8.94 in. (227 mm). 16 gauge steel with RAL 9005 black polyester powder paint finish.

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
P19KBSM	3.50 x 18.31 x 12.42 89 x 465 x 315	19 in.	2

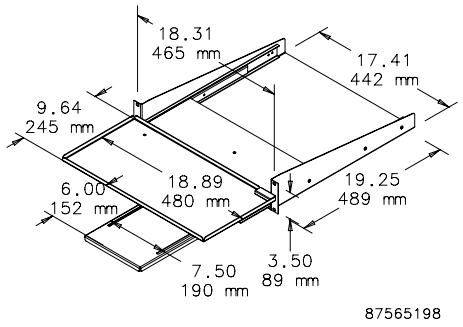


PIVOTING KEYBOARD SHELF WITH MOUSE TRAY

Mounts either in a cabinet or on a 19-in. open-frame rack. Shelf pulls out and pivots 90 degrees to access full-size keyboard. Shelf allows keyboard to slide between standard rack angles and includes mouse tray. 16 gauge steel with RAL 9005 black polyester powder paint finish. Keyboard tray extends 9.75 in. (248 mm) beyond front of rack angles or open-frame rack.

BULLETIN: DACCY

Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
P19KBPVT	3.50 x 18.89 x 19.25 89 x 480 x 489	19 in.	2

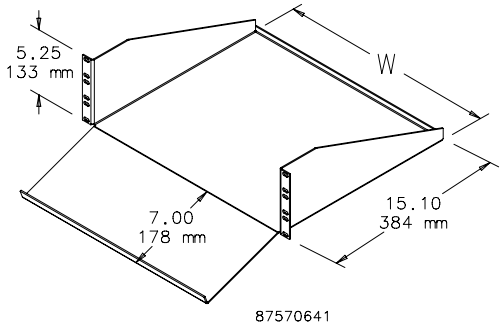


STEEL KEYBOARD/MONITOR SHELF

Designed to accommodate a monitor and keyboard in an ergonomically engineered design. Shelf mounts to front flange of open-frame rack. Can mount in a cabinet if rack angles are adjusted back for door clearance. Uses 3U of rack space. 19-in. and 23-in. rack versions. Steel with textured black finish.
Load rating: 200 lb. (91 kg)

BULLETIN: DACCY

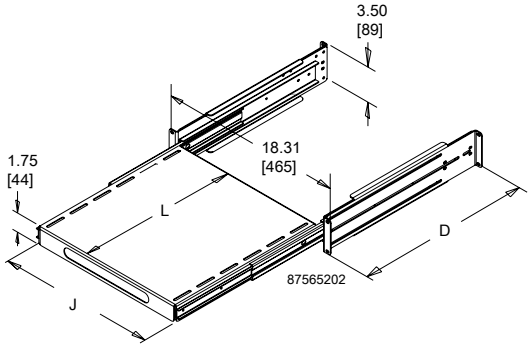
Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESH19KBM	5.25 x 17.38 x 15.10 133 x 441 x 384	19	3
ESH23KBM	5.25 x 21.38 x 15.10 133 x 543 x 384	23	3



RACK-MOUNT, PULL-OUT SHELF

Rack-Mount, Pull-out Shelf mounts to front surface of front and back rack angles. Models fit 19- or 23-in. rack spacing. Adjusts to fit multiple-depth enclosures and rack angle placements. Shelf can be used on 2-post rack or cabinet with front rack angles only by reversing support bracket. Optional cable manager arm available. 14 gauge steel with 12 gauge supports and RAL 9005 black or RAL 7035 gray polyester powder paint finish. Load rating: 150 lb. (68.0 kg) with four corner mounting; 75 lb. (34.0 kg) with two-post or front-rack-angle cabinet mounting.
Optional Cable Manager Arm is recommended to help control cable movement as shelf slides in and out.

BULLETIN: DACCY, P20



Catalog Number	D Max. (in.)	D Max. (mm)	L (in.)	L (mm)	J (in.)	J (mm)	Shelf Pullout (in.)	Shelf Pullout (mm)	Fits Rack	Rack Units	Color
P19SHP68B	37.40	950	16.72	425	16.20	412	17.00	432	19 in.	2	Black
P19SHP68	37.40	950	16.72	425	16.20	412	17.00	432	19 in.	2	Gray
P19SHP810B	41.30	1050	24.59	625	16.20	412	17.00	432	19 in.	2	Black
P19SHP810	41.30	1050	24.59	625	16.20	412	17.00	432	19 in.	2	Gray
P23SHP68B	37.40	950	16.72	425	20.20	513	17.00	432	23 in.	2	Black
P23SHP68	37.40	950	16.72	425	20.20	513	17.00	432	23 in.	2	Gray
P23SHP810B	41.30	1050	24.59	625	20.20	513	17.00	432	23 in.	2	Black
P23SHP810	41.30	1050	24.59	625	20.20	513	17.00	432	23 in.	2	Gray

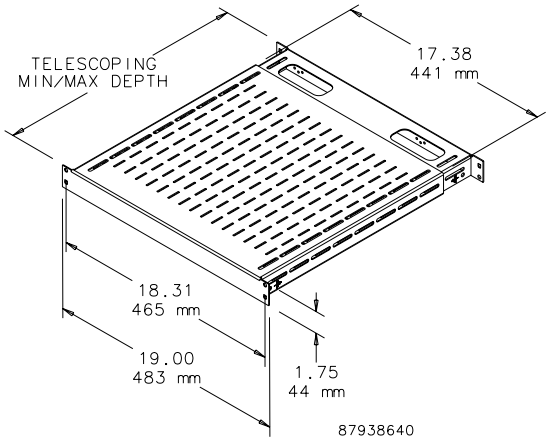
TOOL-LESS SHELF

An easy-to-install tool-less vented 19-in. shelf. Mounts onto rack angles that have EIA-spaced square holes (.375 in.). Shelf slides open and provides a variable-sized, continuous surface for equipment. Back of shelf has oval cutouts for power and data cables. Accessory hole patterns at back of shelf fit small and large D-rings to help manage cable. Made of steel with a 150 lb. (68 kg) static load rating. Available with RAL 9005 black or RAL 7035 gray polyester powder coat finish.
Note: For square-hole rack angles only!

BULLETIN: DACCY

Catalog Number	Description	Finish	Minimum Depth mm/in.	Maximum Depth mm/in.	Rack Angle Type
D19FVT69B	Shelf, vented, 19 in. tool-less	Black	495 19.50	851 33.50	Square hole only
D19FVT69G	Shelf, vented, 19 in. tool-less	Gray	495 19.50	851 33.50	Square hole only
D19FVT912B	Shelf, vented, 19 in. tool-less	Black	792 31.20	1151 45.30	Square hole only
D19FVT912G	Shelf, vented, 19 in. tool-less	Gray	792 31.20	1151 45.30	Square hole only

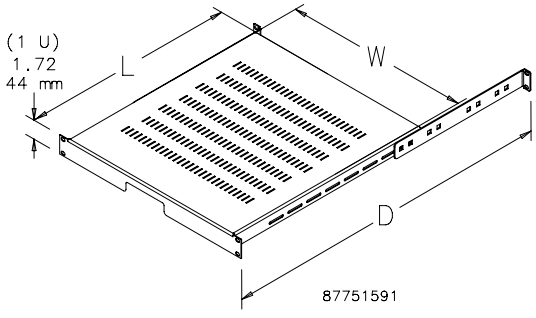
Minimum and maximum depth measured from rack angle to rack angle.



RACK-MOUNT ADJUSTABLE SHELF

Mounts to front surface of front and back rack angles. Shelf is made of painted 14 gauge steel and the adjustable support brackets are clear-plated 12 gauge steel. Adjustable to fit multiple-depth enclosures or rack angle placement. Both solid and vented models available. Fits 19- or 23-in. rack spacing. Requires only 1U of rack space. Shelf has RAL 7035 light-gray textured or RAL 9005 black textured polyester powder paint finish. Load rating: 150 lb. (68 kg)

BULLETIN: DACCY



Catalog Number	Type	Size	Finish	L x W (in.)	L x W (mm)	D max. (in.)	D max. (mm)	Fits Enclosure Depth Up To (in.)	Fits Enclosure Depth Up To (mm)
P19SH68	Solid	19 in.	Gray	19.68 x 17.32	500 x 440	30.71	780	31.50	800
P19SH68B	Solid	19 in.	Black	19.68 x 17.32	500 x 440	30.71	780	31.50	800
P19VSH68B	Vented	19 in.	Black	19.68 x 17.32	500 x 440	30.71	780	31.50	800
P19SH810	Solid	19 in.	Gray	27.56 x 17.32	700 x 440	38.58	980	39.37	1000
P19SH810B	Solid	19 in.	Black	27.56 x 17.32	700 x 440	38.58	980	39.37	1000
P19VSH810B	Vented	19 in.	Black	27.56 x 17.32	700 x 440	38.58	980	39.37	1000
P23SH68B	Solid	23 in.	Black	19.68 x 21.32	500 x 542	30.71	780	31.50	800
P23VSH68B	Vented	23 in.	Black	19.68 x 21.32	500 x 542	30.71	780	31.50	800
P23SH810B	Solid	23 in.	Black	27.56 x 21.32	700 x 542	38.58	980	39.37	1000
P23VSH810B	Vented	23 in.	Black	27.56 x 21.32	700 x 542	38.58	980	39.37	1000

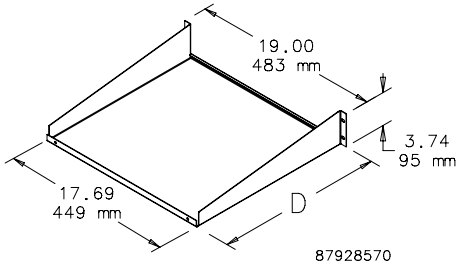
nVent | HOFFMAN

SINGLE-SIDED SHELF

Mounts to 19-in. rack angles to house voice/data networking equipment. RAL 9005 black finish. Load rating: 75 lb. (34 kg)

BULLETIN: DACCY

Catalog Number	H x W x D (in.)	H x W x D (mm)	Style	Rack Units
ESH198	3.74 x 19.00 x 8.00	95 x 483 x 203	Solid	2
ESH1915	3.74 x 19.00 x 15.00	95 x 483 x 381	Solid	2
ESH1915V	3.74 x 19.00 x 15.00	95 x 483 x 381	Vented	2
ESH1917	3.74 x 19.00 x 17.00	95 x 483 x 432	Solid	2

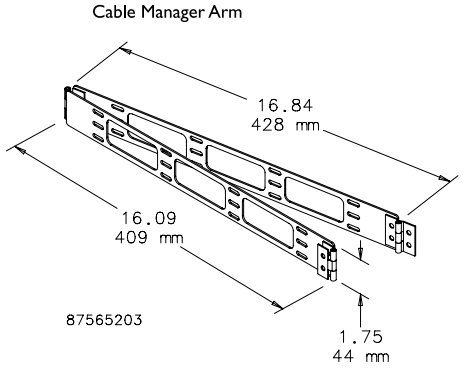


CABLE MANAGER ARM FOR SLIDING EQUIPMENT SHELF

Cable Manager Arm mounts to back of sliding equipment shelf on right or left side. Controls cable movement as shelf slides in and out. 14 gauge steel with RAL 9005 black polyester powder paint finish.

BULLETIN: DACCY

Catalog Number	Description	Use With
PHCB	Cable Manager Arm	Sliding Equipment Shelf

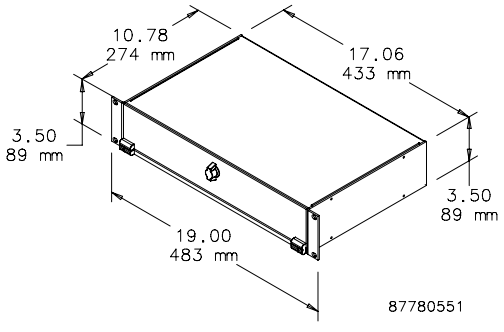


KEYBOARD COMPARTMENT FOR 19-IN. RACKS

Provides a convenient way to incorporate a keyboard with other 19-in. rack-mounted equipment. Uses 2 RU of space. Made of lightweight aluminum with brushed finish. Accommodates keyboard up to 16.50-in. (419-mm) wide. Mounting hardware included.

BULLETIN: DACCY

Catalog Number	Fits rack width	Rack Units
A19KBC2B	19	2

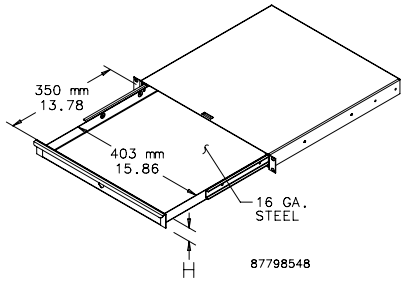


RACK-ANGLE MOUNTED DRAWER

Steel drawer for 19-in. rack-angle mounting. Mounts to the front surface of the rack angles. Integral steel box contains the drawer and protects surrounding internal equipment. Extends 13 in. (330 mm) on ball bearing slides. Front includes handle and key lock. Finish is RAL 7035 textured light-gray polyester powder paint. Mounting hardware is included.

BULLETIN: P20

Catalog Number	H (mm)	H (in.)	Fits Rack Width	Rack Units
P19DR1US	43	1.69	19 in.	1
P19DR2US	88	3.47	19 in.	2
P19DR3US	132	5.20	19 in.	3

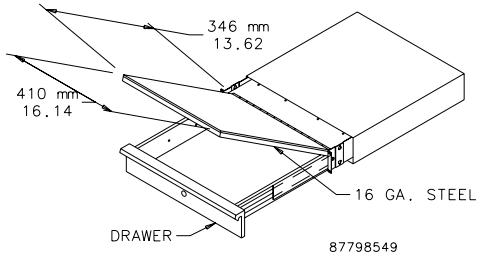


WRITING SURFACE FOR RACK-ANGLE-MOUNTED DRAWER

Steel cover mounts on top of the drawer and serves as a writing surface and drawer cover. Finish is RAL 7035 light-gray textured polyester powder paint. Drawer shown in illustration and photo must be ordered separately.

BULLETIN: P20

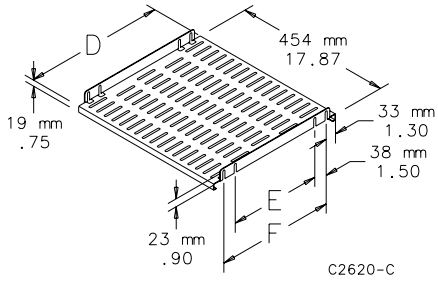
Catalog Number	Description	Fits
P19WS	Steel writing surface and cover	Drawer (order separately)



19-IN. FIXED SHELF

14 gauge steel fixed shelf has large ventilation slots in shelf surface. Mounts between two pair of rack mounting angles that have accessory mounting legs. Shelves have RAL 7035 light-gray polyester powder paint finish. Plated mounting hardware is furnished.

BULLETIN: P20



Catalog Number	D (in.)	D (mm)	E (in.)	E (mm)	F (in.)	F (mm)	Fits Rack Width
A19SH5	16.06	408	10.46	266	13.46	342	19 (in.)
A19SH6	20.00	508	14.40	366	17.40	442	19 (in.)
A19SH8	27.87	708	22.27	566	25.27	642	19 (in.)

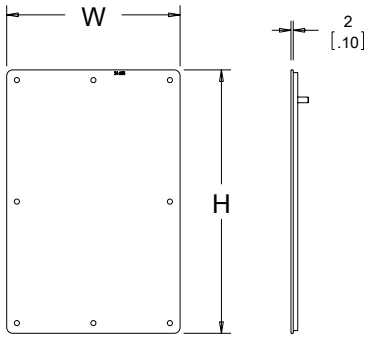
CONCEPT KEYBOARD BOX

Keyboard box is designed to fit on an outside surface of an enclosure to provide a self-contained external Type 4 housing for a keyboard. The box attaches to the enclosure surface with 4 bolts. A large hole and rubber plug are provided for keyboard cord and plug. The hinged cover is supported with flexible cables in the open position. A left and a right mouse tray slides out from under the keyboard mounting surface. VELCRO® strips with pressure-sensitive adhesive are supplied to attach a keyboard. An internal mouse storage pracket is provided. The box and cover are 16 gauge steel with ANSI 61 gray polyester powder paint finish. Cover latches with a single quarterturn slotted latch. Optional CONCEPT latches also fit.
VELCRO is a trademark of Velcro Industries B.V.

BULLETIN: A80

Catalog Number	AxBxC in./mm	Max. Keyboard Size W x D x H in./mm
CKBC24	10.00 x 23.30 x 4.79 254 x 592 x 122	20.20 x 8.00 x 2.34 513 x 203 x 59

12 GAUGE GLAND PLATE, TYPE 4 AND TYPE 12



Mild steel gland plates are constructed of 12 gauge steel and finished with ANSI 61 gray polyester powder paint. Gland plates provide a removable cable egress and entry plate while maintaining enclosure rating of UL Type 4 and Type 12. Easy installation by cutting a rectangular opening in the enclosure and fastening with included hardware kit.

BULLETIN: GP1

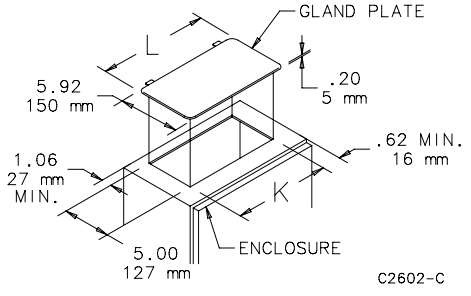
Catalog Number	Cutout Size (in.)	Cutout Size (mm)	W x H (in.)	W x H (mm)
GP126	9.50 x 3.75	241 x 95	10.98 x 5.23	279 x 133
GP128	9.50 x 5.75	241 x 146	10.98 x 7.23	279 x 184
GP166	13.50 x 3.75	343 x 95	14.98 x 5.23	380 x 133
GP168	13.50 x 5.75	343 x 146	14.98 x 7.23	380 x 184
GP206	17.50 x 3.75	446 x 95	18.98 x 5.23	482 x 133
GP208	17.50 x 5.75	446 x 146	18.98 x 7.23	482 x 184
GP248	21.50 x 5.75	546 x 146	22.98 x 7.23	584 x 184
GP2412	21.50 x 7.00	546 x 178	22.98 x 8.48	584 x 215

16 GAUGE GLAND PLATE

Constructed of 16 gauge steel. Gland plates will maintain UL/CSA Type 12 integrity while providing a removable cable egress and entry plate. Easily installed by cutting a rectangular opening in the enclosure. Finish is ANSI 61 gray polyester powder paint.

BULLETIN: GP1

Catalog Number	K in./mm	L in./mm
DLGP610	9.00 229	9.94 252
DLGP618	17.00 432	17.94 457



12 GAUGE GLAND PLATE

Constructed of 12 gauge steel and designed for use with 10 gauge and 12 gauge enclosures. Provides a removable cable egress and entry plate while maintaining UL/NEMA integrity of the enclosure. Gasket with pressure-sensitive adhesive is included to be applied after desired modifications are completed. Finish is ANSI 61 gray polyester powder paint. Maintains UL/NEMA Type 4 and Type 12 if properly installed in a Hoffman enclosure.

BULLETIN: GP1

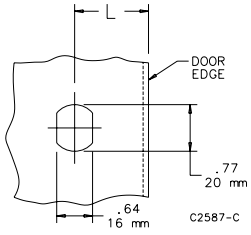
Catalog Number	Size in./mm	Opening Size in./mm
AGP618	6.50 x 18.50 165 x 470	4.00 x 16.00 102 x 406
AGP1218	12.50 x 18.50 318 x 470	10.00 x 16.00 254 x 406
AGP1618	16.50 x 18.50 419 x 470	14.00 x 16.00 356 x 406

LOCK KIT FOR CLAMP COVER JUNCTION BOXES

Designed for field installation in standard clamp-cover junction boxes. Includes complete installation instructions. One hole must be drilled or punched in the cover to receive the cylinder lock. Punches for Hoffman locks and latches are available from Greenlee Punches. For more information on Greenlee punches, go to **http://www.greenlee.textron.com/**

BULLETIN: A80

Catalog Number	L (in.)	L (mm)
ACLJIC	1.25	32

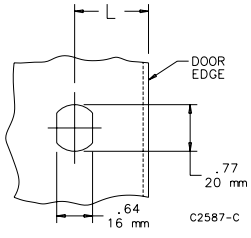


LOCK KIT FOR TYPE 3R AND 12 ENCLOSURES

Designed for field installation in standard one-door Type 3R and 12 enclosures. Includes complete installation instructions. One hole must be drilled or punched in the door to receive the cylinder lock.

BULLETIN: A80

Catalog Number	L, for NEMA 12 Enclosure in./mm	L, for Medium 3R Hinged-Cover Enclosure in./mm
ACLSN12	1.69	2.25
	43	57



PADLOCK KIT FOR JUNCTION BOXES

Designed for field installation on standard LP, CH and CHNF junction boxes. Maintains water-tight and dust-tight seal. To install simply drill two holes in the cover and two holes in the body. Includes complete instructions. Padlock Kit is plated steel or Type 316 stainless steel.

BULLETIN: A80

Catalog Number	Description
APLKJIC	Plated steel
APLKJIC6SS	Type 316 stainless steel

REPLACEMENT KEYS

Fits PROLINE Network Cabinet and Networking Wall-Mount Cabinet.

BULLETIN: DACCY

Catalog Number	Key Code	Includes	Use with
E2233KEY	2233	2 Keys	PROLINE, Net Series, PC Cabinet, SOHO
E333KEY	333	2 Keys	ACCESSPLUS, L-BOX, D-BOX

SAFETY LOCKOUTS

Provide a means of using multiple padlocks on a secured power source. Catalog number ASL6C includes a 10.00-in. (254-mm) plated steel chain. Manufactured from 10 gauge steel with six station holes. Red finish. Overall length is 5.06 in. (128 mm) and padlock holes are .38-in. (10-mm) in diameter.

BULLETIN: A80

Catalog Number	Description
ASL6	Without chain
ASL6C	With chain

DUAL-ACCESS SAFETY LOCKOUTS

Provide a means of using two padlocks on a secured power source. Either padlock can be removed enabling power to be interrupted and enclosure accessed. Catalog number ASLDAC includes a 10.00-in. (254-mm) plated steel chain. Lockouts are manufactured from 10 gauge steel and finished in red. Padlock holes are .38-in. (10-mm) in diameter. Padlock is not included.

BULLETIN: A80

Catalog Number	Description
ASLDA	Without chain
ASLDAC	With chain

T-HANDLE LATCH AND KEYED CYLINDER LOCK KITS

To install, simply remove the standard slotted latch and insert the kit. Complete installation instructions are furnished. Catalog number AL7A includes a Type L7 T handle and all hardware. Catalog number AL12AR includes a Type L12 cylinder lock, cam and all hardware. Latch and lock fit Type 1 enclosures and hinged-cover pull boxes.

BULLETIN: A80

Catalog Number	Description
AL7A	T handle latch kit
AL12AR	Cylinder lock kit

LATCH KIT FOR ONE-DOOR TYPE 12 ENCLOSURES

Designed for field installation on most standard one-door Type 12 enclosures. These latch kits will not fit Hoffman disconnect, CONCEPT or PROLINE enclosures. Each kit includes a handle, latch, latch rods, adjustable rod guides and all hardware. The latch rods can be adjusted to maintain the proper gasket compression by relocating the pins in the rod guides. When the pin is removed, the latch rod can also be removed. These kits are available with a key locking handle, a non-locking handle or a padlocking handle. All openings through the door are gasketed to assure a complete seal. Ends of latch rods have rollers for easier door closing.

BULLETIN: A80

Catalog Number	Handle Type	Opens	Description	Finish
AL2A	Keylock	Clockwise	1-point Latch kit	Brushed Chrome
AL2ABLK	Keylock	Clockwise	1-point Latch kit	Black
AL2ACCW	Keylock	Counterclockwise	1-point Latch kit	Brushed Chrome
AL2ACCWBLK	Keylock	Counterclockwise	1-point Latch kit	Black
AL36A	Padlock	Either Clockwise or Counterclockwise	1-point Latch kit	-
AL3A	Non-Locking	Clockwise	1-point Latch kit	Brushed Chrome
AL3ABLK	Non-Locking	Clockwise	1-point Latch kit	Black
AL2BCCW	Keylock	Counterclockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Brushed Chrome
AL2BCCWBLK	Keylock	Counterclockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Black
AL2BR	Keylock	Clockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Brushed Chrome
AL2BRBLK	Keylock	Clockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Black
AL36BR	Padlock	Either Clockwise or Counterclockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	-
AL3BR	Non-Locking	Clockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Brushed Chrome
AL3BRBLK	Non-Locking	Clockwise	3-point Latch Kit where A is 16, 20, 24 or 30 in.	Black
AL2CCCW	Keylock	Counterclockwise	3-point Latch kit where A is 36, 42 or 48 in.	Brushed Chrome
AL2CCCWBLK	Keylock	Counterclockwise	3-point Latch kit where A is 36, 42 or 48 in.	Black
AL2CR	Keylock	Clockwise	3-point Latch kit where A is 36, 42 or 48 in.	Brushed Chrome
AL2CRBLK	Keylock	Clockwise	3-point Latch kit where A is 36, 42 or 48 in.	Black
AL36CR	Padlock	Either Clockwise or Counterclockwise	3-point Latch kit where A is 36, 42 or 48 in.	-
AL3CR	Non-Locking	Clockwise	3-point Latch kit where A is 36, 42 or 48 in.	Brushed Chrome
AL3CRBLK	Non-Locking	Clockwise	3-point Latch kit where A is 36, 42 or 48 in.	Black
AL2DCCW	Keylock	Counterclockwise	3-point Latch kit where A is 60 or 72 in.	Brushed Chrome
AL2DCCWBLK	Keylock	Counterclockwise	3-point Latch kit where A is 60 or 72 in.	Black
AL2DR	Keylock	Clockwise	3-point Latch kit where A is 60 or 72 in.	Brushed Chrome
AL2DRBLK	Keylock	Clockwise	3-point Latch kit where A is 60 or 72 in.	Black
AL36DR	Padlock	Either Clockwise or Counterclockwise	3-point Latch kit where A is 60 or 72 in.	-
AL3DR	Non-Locking	Clockwise	3-point Latch kit where A is 60 or 72 in.	Brushed Chrome
AL3DRBLK	Non-Locking	Clockwise	3-point Latch kit where A is 60 or 72 in.	Black

See price list for factory installation charges. A is enclosure height.

LATCH KITS FOR TYPE 4 AND 12 ENCLOSURES

Top left to right: AL32, AL3S. Bottom left to right: AL32Y, AL35Y, AL31

Fits Type 4 and 12 enclosures which have external screw clamps. Requires only a quarter-turn (90 degrees) to open or close. An internal O-ring and external gasket assure a watertight and dust-tight seal. Installation requires a hole punched or drilled in the door for each latch. Complete instructions are furnished. A square or triangular key is required for tamper-resistant latches. Latch is die-cast zinc with chrome finish.

BULLETIN: A80

Catalog Number	Description
AL31	Slotted insert
AL32	7-mm square insert
AL32Y	Key for AL32
AL35	7-mm triangle insert
AL35Y	Key for AL 35

TOGGLE LATCH FOR TYPE 4 AND 4X FLOOR-MOUNT AND FREE-STAND ENCLOSURES

Provides quick access to Type 4 and 4X floor-mount and free-stand enclosures with clamps. The 3/8-16 threaded, stainless steel toggle latches replace the standard stainless steel bolts. Operation of the toggle releases the door clamp so the door can be opened without tools. Two Type 316 stainless steel toggle assemblies included.

BULLETIN: A80

Catalog Number	Description
AFT44XSS	2 toggle latches

POWERGLIDE HANDLES

Easy-to-install medium-size POWERGLIDE Handles fit into existing handle holes. They are available in clockwise and counterclockwise non-defeater models and a clockwise defeater model. The clockwise defeater model includes door hardware for Bulletin A25 enclosures.

BULLETIN: A80

Catalog Number	Description
AL55CW	Medium POWERGLIDE Handle - Clockwise Opening
AL55CCW	Medium POWERGLIDE Handle - Counterclockwise Opening
AL55CWD	Medium POWERGLIDE Handle - Clockwise Opening with Defeater and Door Hardware

HANDLE KIT

Non-metallic handle for small enclosures. Includes four rubber bumpers that mount on back of enclosure to protect exterior finish. All mounting hardware and complete installation instructions are provided.

BULLETIN: A80

Catalog Number	Description
DHDLK	Handle kit

HANDLES

PUHK PUHKA

Handles attach to sides, top or bottom of sloped front to provide maximum operator control when using the suspension system, swivel or swivel tilt. Location dimples on the sides of sloped fronts indicate drill-hole location for standard mounting. Handles are fastened from inside the enclosure.

BULLETIN: P1

Catalog Number	Description	Fits
PUHKA	248 mm	PROLINE sloped fronts
PUHK	9.75 in.	PROLINE sloped fronts

FAST-OPERATING CLAMP-COVER JUNCTION BOX CLAMP

Provides quick access to enclosure or wireway interiors. Installs on standard clamp bracket used on Hoffman junction boxes, Type 12 trough and wireway, Type 4X wireway and similar custom enclosures. Clamps are available in plated steel or stainless steel.

BULLETIN: A80

Catalog Number	Description
AL23	Plated steel clamp
AL23SS	Stainless steel clamp

FAST-OPERATING CLAMP ASSEMBLY

Provides quick access to enclosures which have screw clamps. Install on clamp brackets used on single-door Type 4, 4X, 12 and 13 enclosures and similar custom order enclosures. The entire clamp assembly is Type 316 stainless steel.

BULLETIN: A80

Catalog Number	Qty.
AFC412SS	2

CLAMP KITS

These kits provide replacement clamps for clamp-cover junction boxes and wall-mount enclosures. Each kit contains two clamps and all mounting hardware.

BULLETIN: A80

Catalog Number	Material	Use with
AL15	Mild Steel	A12 enclosures
AL16	Stainless Steel	A4, A4S enclosures
AL17	Mild Steel	A51 junction boxes
AL18	Stainless Steel	A51S junction boxes

CLAMP BLOCK KIT

Used on floor-mount and free-stand Type 4X stainless steel enclosures with clamps. Kit includes two sets of screws, two Type 316L clamp blocks and mounting hardware.

BULLETIN: A50Y

Catalog Number	Description
ACBK6SS	2 clamp blocks and screw sets

DRIP SHIELD KIT FOR TYPE 12 ENCLOSURES

Protects door hardware from dripping water and settling dust. Attaches quickly and easily to the enclosure with stainless steel screws and sealing washers (hardware is furnished). Stainless steel hinge pin and stainless steel door clamping assemblies are furnished to replace the standard hinge pin and door clamping assemblies. A tube of sealing compound is also supplied with each kit. Manufactured from 14 gauge steel with an ANSI 61 gray polyester powder paint finish over pretreated surfaces.

BULLETIN: A80

Catalog Number	For	Fits Enclosure Size B in./mm
ADK12A	Single-Door Wall-Mount Enclosures	12.00 305
ADK16A	Single-Door Wall-Mount Enclosures	16.00 406
ADK20A	Single-Door Wall-Mount Enclosures	20.00 508
ADK24A	Single-Door Wall-Mount/Floor-Mount Enclosures with Continuous Hinge	24.00 610
ADK30A	Single-Door Wall-Mount/Floor-Mount Enclosures with Continuous Hinge	30.00 762
ADK36A	Single-Door Wall-Mount/Floor-Mount Enclosures with Continuous Hinge	36.00 914
ADK42A	Two-Door Floor-Mount, Continuous Hinge Enclosures	42.00 1067
ADK48A	Two-Door Floor-Mount, Continuous Hinge Enclosures-Door Floor-Mount Enclosures	48.00 1219
ADK60A	Two-Door Floor-Mount, Continuous Hinge Enclosuresoor Floor-Mount Enclosures	60.00 1524
ADK72A	Two-Door Floor-Mount, Continuous Hinge Enclosuresoor Floor-Mount Enclosures	72.00 1829

Two-Door Drip Shield kits are not designed for use on 48.00-in. (1219-mm) wide and 60.00-in. (1524-mm) wide Two-Door Type 12 Wall-Mount Enclosures.

DRIP SHIELD KIT FOR TYPE 12 FREE-STAND AND FLOOR-MOUNT ENCLOSURES WITH CONCEALED HINGES

Protects door hardware from dripping water and settling dust. Attaches quickly and easily to the enclosure with stainless steel screws and sealing washers (hardware is furnished). A tube of sealing compound is also supplied with each kit. Manufactured from 14 gauge steel with an ANSI 61 gray polyester powder paint finish over pretreated surfaces.

BULLETIN: A80

Catalog Number	For	Fits Enclosure Size B in./mm
ADK24HH	Single-Door Free-Stand/Floor-Mount Enclosures	24.00 610
ADK30HH	Single-Door Free-Stand/Floor-Mount Enclosures	30.00 762
ADK36HH	Single-Door Free-Stand/Floor-Mount Enclosures	36.00 914
ADK42HH	Two-Door Free-Stand/Floor-Mount Enclosures	42.00 1067
ADK48HH	Two-Door Free-Stand/Floor-Mount Enclosures	48.00 1067
ADK60HH	Two-Door Free-Stand/Floor-Mount Enclosures	60.00 1524
ADK72HH	Two-Door Free-Stand/Floor-Mount Enclosures	72.00 1829

STAINLESS STEEL DRIP SHIELD KIT FOR TYPE 4 AND 4X WALL-MOUNT ENCLOSURES

Easily installed on Type 4 and 4X wall-mount enclosures (excluding quick-release latch models). Protects door from dripping water and settling dust. Attaches quickly and easily to the enclosure with stainless steel screws and sealing washers (furnished). A tube of sealing compound is supplied with each kit. Manufactured from 14 gauge Type 316 stainless steel. Kits can be special ordered for other Hoffman enclosures. Consult factory for more information. Product maintains UL/CSA Type 4, 4X and 12 rating when properly installed on a Hoffman enclosure.

BULLETIN: A4SY

Catalog Number	Fits Enclosure Size B in./mm
ADK12SS6	12.00 305
ADK16SS6	16.00 406
ADK20SS6	20.00 508
ADK24SS6	24.00 610
ADK30SS6	30.00 762
ADK36SS6	36.00 914

WALL-MOUNT SOLAR SHIELDS

INDUSTRY STANDARDS

UL 508A Listed; Type 4, 12; File No. E61997
cUL Listed per CSA C22.2 No 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
IEC 60529, IP66

APPLICATION

Wall-mount Solar Shield protects outdoor enclosures from overheating and provides weather protection from sun, rain and snow. Enclosures are shielded from the top, sides and rear; white powder paint finish maximizes solar heat reduction. Two sets of fully-adjustable mounting channels are provided to mount any type of wall-mount enclosure that fits inside the solar shield. Mounting hardware and step-by-step instructions are included.

Shielding Effectiveness

Hoffman's research of the effects of solar radiation on enclosures has shown the positive benefits of utilizing shielding to decrease temperature rise. Shielding has been found to be an effective, low-cost method of reducing solar heat gain in outdoor electrical and electronic applications.
Recent test results indicate that a wall-mount solar shield provides an approximately 56% reduction in temperature rise due to solar head load.

SPECIFICATIONS

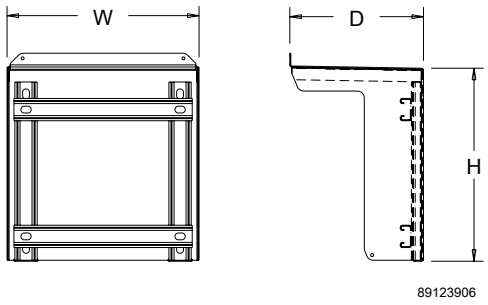
- 14 gauge galvanized steel
- Adjustable mounting allows various wall-mount enclosures to fit inside the solar shield. Refer to the table below to determine which solar shield fits your enclosure size.
- Fits most CONCEPT, INLINE and NEMA Type 4 wall-mount enclosures and junction boxes (i.e. Bulletins A51NF and A51FL)
- Hardware is included for mounting an enclosure to the solar shield

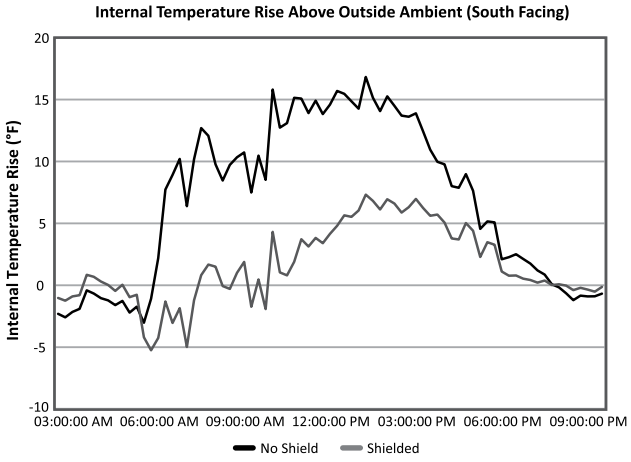
FINISH

- Hoffman #60 White powder paint finish inside and out

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.





BULLETIN: A80SH

Standard Product **Solar Shield**

Catalog Number	Description	H (in.)	H (mm)	W (in.)	W (mm)	D (in.)	D (mm)	*Maximum overall enclosure size A x B x C (in.)	*Maximum overall enclosure size A x B x C (mm)
SW2SGLWH	Solar Shield, 2S, Galvanized, White	14.00	356	14.00	356	9.75	248	10.00 x 10.00 x 8.00	254 x 254 x 203
SW1MGLWH	Solar Shield, 1M, Galvanized, White	16.00	406	16.00	406	11.75	298	12.00 x 12.00 x 10.00	305 x 305 x 254
SW2MGLWH	Solar Shield, 2M, Galvanized, White	20.00	508	20.00	508	11.75	298	16.00 x 16.00 x 10.00	406 x 406 x 254
SW1LGLWH	Solar Shield, 1L, Galvanized, White	24.00	610	24.00	610	12.75	324	20.00 x 20.00 x 12.00	508 x 508 x 305
SW2LGLWH	Solar Shield, 2L, Galvanized, White	28.00	711	28.00	711	15.75	400	24.00 x 24.00 x 14.00	610 x 610 x 356

*Adjust the overall enclosure size if there are any components (such as cooling units or accessories) mounted externally to the enclosure

Standard Product **Solar Shield Replacement Hardware Kit**

Catalog Number	Description
SWHDK4	Replacement Hardware Kit: (12) clamping nuts; (12) screws; (8) sealing washers and (4) flat washers

Shielding Effectiveness **(Outside Temperature = 85.8 F)**

Enclosure (Color: ANSI 61 Gray)	Temperature Rise (F)	Temperature Reduction (%)
Without solar shield	16.8	--
With solar shield	7.3	56

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HOL-SEALERS HOLE SEALS

INDUSTRY STANDARDS

Steel Hole Seals

UL 508A Component Recognized; Type 3R, 4, 12, 13; File No. E61997

CSA File No. 42186; Type 3R, 4, 12, 13
NEMA/EEMAC Type 3R, 4, 12, 13
IEC 60529, IP66

Stainless Steel Hole Seals

UL 508A Component Recognized; Type 3R, 4, 4X, 12, 13; File No. E61997

CSA File No. 42186; Type 3R, 4, 4X, 12, 13
NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

Seal extra pushbutton holes, conduit openings and knockout openings against dust, dirt, oil and water with Hoffman HOL-SEALERS. Seals will cover any size or shape of hole from .19-in. diameter to maximum diameter shown in table. Can be used on enclosure walls up to .31-in. (8-mm) thick.

FEATURES

- Available in multiple colors and sizes
- Oil-resistant gasket provided

SPECIFICATIONS

Steel Models

- 16 gauge galvanized steel backplate
- Plated stud (10-32x5/8) and wing nut

Stainless Steel Models

- 16 gauge stainless steel backplate
- Seal, backplate, stud (10-24x5/8) and wing nut are 300 series stainless steel

FINISH

Steel seals have polyester powder paint finish over galvanized front surface.
Stainless steel seals have polished front surface.

BULLETIN: A80HS

Standard Product

Catalog Number	Material	Finish/Color	For	Maximum Hole Diameter in./mm	Hol-Sealer Diameter in./mm
AS056M	Steel	ANSI 61 gray	Micro	0.56 14	0.80 20
AS056MSS	Stainless Steel	Stainless Steel	Micro	0.56 14	0.80 20
AS056CB	Steel	Chrysler beige	Micro	0.56 14	0.80 20
AS056MFB	Steel	Ford brown	Micro	0.56 14	0.80 20
AS056MLG	Steel	Light gray	Micro	0.56 14	0.80 20
ASPBG	Steel	ANSI 61 gray	22.5-mm pushbutton holes	0.88 22	1.22 31
ASPBGSS	Stainless Steel	Stainless Steel	22.5-mm pushbutton holes	0.88 22	1.22 31
AS050	Steel	ANSI 61 gray	1/2-in. conduit holes	0.88 22	1.38 35
AS050LG	Steel	Light gray	1/2-in. conduit holes	0.88 22	1.38 35
AS050SS	Stainless Steel	Stainless Steel	1/2-in. conduit holes	0.88 22	1.38 35
AS075	Steel	ANSI 61 gray	3/4-in. conduit holes	1.06 27	1.56 40
AS075SS	Stainless Steel	Stainless Steel	3/4-in. conduit holes	1.06 27	1.56 40
AS075LG	Steel	Light gray	3/4-in. conduit holes	1.06 27	1.56 40
ASPB	Steel	ANSI 61 gray	30.5-mm pushbutton holes	1.25 32	1.75 44
ASPBSS	Stainless Steel	Stainless Steel	30.5-mm pushbutton holes	1.25 32	1.75 44
ASPBLG	Steel	Light gray	30.5-mm pushbutton holes	1.25 32	1.75 44
AS100	Steel	ANSI 61 gray	1-in. conduit holes	1.38 35	1.88 48
AS100SS	Stainless Steel	Stainless Steel	1-in. conduit holes	1.38 35	1.88 48
AS100LG	Steel	Light gray	1-in. conduit holes	1.38 35	1.88 48
AS125	Steel	ANSI 61 gray	1 1/4-in. conduit holes	1.69 43	2.19 56
AS125SS	Stainless Steel	Stainless Steel	1 1/4-in. conduit holes	1.69 43	2.19 56
AS125LG	Steel	Light gray	1 1/4-in. conduit holes	1.69 43	2.19 56
AS150	Steel	ANSI 61 gray	1 1/2-in. conduit holes	2.00 51	2.50 64
AS150SS	Stainless Steel	Stainless Steel	1 1/2-in. conduit holes	2.00 51	2.50 64
AS150LG	Steel	Light gray	1 1/2-in. conduit holes	2.00 51	2.50 64
AS200	Steel	ANSI 61 gray	2-in. conduit holes	2.50 64	3.00 76
AS200SS	Stainless Steel	Stainless Steel	2-in. conduit holes	2.50 64	3.00 76
AS200LG	Steel	Light gray	2-in. conduit holes	2.50 64	3.00 76
AS250	Steel	ANSI 61 gray	2 1/2-in. conduit holes	3.00 76	3.50 89
AS250SS	Stainless Steel	Stainless Steel	2 1/2-in. conduit	3.00 76	3.50 89
AS300	Steel	ANSI 61 gray	3-in. conduit holes	3.62 92	4.12 105
AS300SS	Stainless Steel	Stainless Steel	3-in. conduit holes	3.62 92	4.12 105
AS350	Steel	ANSI 61 gray	3 1/2-in. conduit holes	4.12 105	4.62 117
AS350SS	Stainless Steel	Stainless Steel	3 1/2-in. conduit holes	4.12 105	4.62 117
AS400	Steel	ANSI 61 gray	4-in. conduit holes	4.62 117	5.12 130
AS400SS	Stainless Steel	Stainless Steel	4-in. conduit holes	4.62 117	5.12 130

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HOL-SEALERS NON-METALLIC HOLE SEALS

INDUSTRY STANDARDS

UL 508A Component Recognized; Type 3R, 4, 4X, 12, 13; File No. E61997

CSA File No. 42186: Type 3R, 4, 4X, 12, 13
NEMA/EEMAC Type 3R, 4, 4X, 12, 13
IEC 60529, IP66

APPLICATION

Designed for use in corrosive environments to seal extra pushbutton holes, conduit openings and knockout openings against dust, dirt, oil and water. These hole seals are suitable for sealing enclosure openings in industries such as petroleum and chemical processing, wastewater processing, pulp and paper, outdoor monitoring and any other industry exposed to harsh environments.

Innovative 3-in-1 self-centering design

- Thread self-centers on one hole size
- Nut orientation "A" self-centers on a second hole size (see Nut Orientation drawing)
- Nut orientation "B" self-centers on a third hole size

FEATURES

- Innovative 3-in-1 self-centering design reduces inventory requirements; 4 models cover 12 common industry cutouts ranging from 1/2 in. to 4 in.
- Non-metallic construction provides superior corrosion resistance for reliability in harsh environments
- UV stabilized; ideal for direct sunlight (avoids fiberbloom associated with fiberglass)
- Chemically resistant to a broad range of chemicals
- Durable and impact resistant; resists cracking
- Sold in quantities of 2 per catalog number
- Cost-effective alternative to stainless steel
- Polyester material has a UL 94 rating of 5VA
- Easy to install; no tools required

SPECIFICATIONS

- Thread and nut are constructed of non-glass-filled polyester
- Oil-resistant gasket

FINISH

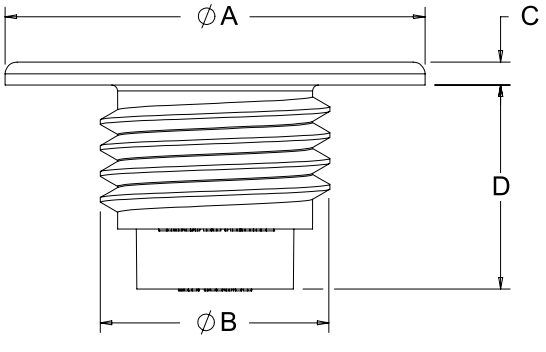
RAL 7035 light-gray textured finish

BULLETIN: A80HS

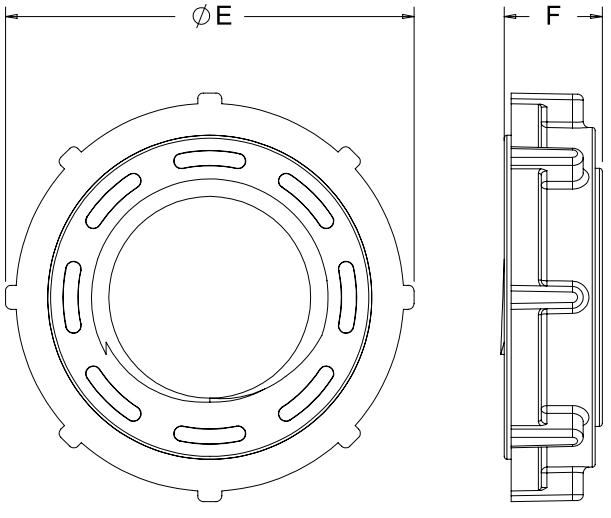
Standard Product **Non-Metallic Hole Seals**

Catalog Number	AxBxC in./mm	Qty.	D in./mm	E in./mm	F in./mm	Max. Hole Diameter in./mm	Outside Diameter in./mm	Torque (in.-lb.)
ASPB05075NM	1.56 x 0.85 x 0.12 40 x 22 x 3	2	1.28 32	1.48 38	.47 12	1.28 33	1.56 40	15
ASPB100125NM	2.19 x 1.19 x 0.12 56 x 30 x 3	2	1.18 30	2.14 54	.51 13	1.91 49	2.19 56	20
AS150200250NM	3.50 x 1.95 x 0.12 89 x 49 x 3	2	.95 24	3.42 87	.51 13	3.14 80	3.50 89	35
AS300350400NM	5.12 x 3.55 x 0.12 130 x 90 x 3	2	.81 21	5.05 128	.51 13	4.77 121	5.12 130	50

Seal



Nut



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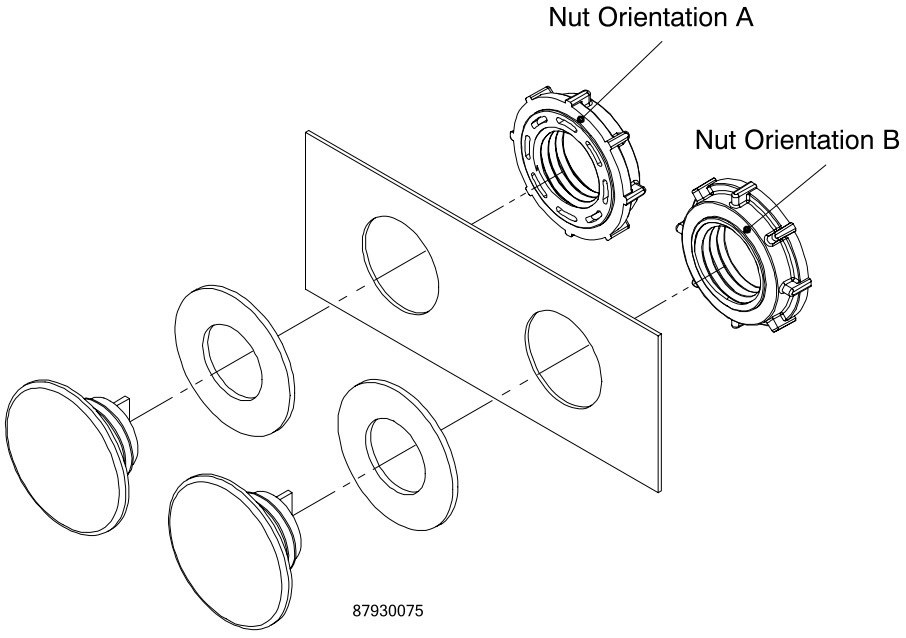
HOL-SEALERS Fit These Hole Sizes

Catalog Numbers	Fits	Min. Hole Dia. (inch)	Min. Hole Dia. (millimeter)	Nut Orientation
ASPB05075NM	.5-in. conduit holes	.86	22	A
	22.5-mm pushbutton holes	.88	22	A
	.75-in. conduit holes	1.09	28	A
ASPB100125NM	30.5-mm pushbutton holes	1.20	31	A
	1-in. conduit holes	1.36	35	B
	1.25-in. conduit holes	1.70	43	A
AS150200250NM	1.5-in. conduit holes	1.95	50	A
	2-in. conduit holes	2.38	60	B
	2.5-in. conduit holes	2.88	73	A
AS300350400NM	3-in. conduit holes	3.50	89	A
	3.5-in. conduit holes	4.00	102	B
	4-in. conduit holes	4.50	114	A



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INDUSTRIAL CORROSION INHIBITORS

Hoffman corrosion inhibitors protect

- Interior components of electrical enclosures, boxes, consoles and wireways
- Interior components of electronic enclosures
- Electrical and electronic equipment and controls
- Parts and components that are packaged in crates during shipping and storage
- Switch gear and relay cabinets
- Interiors of pipes, conduits and fuse boxes
- Process control computers, instruments and recording devices
- Tool chest interiors and contents
- Equipment stored at construction sites

Chief Advantages

- Protects against salt and high humidity
- Eliminates the need of oiling, plating or dipping metal
- Puts protected equipment to use immediately without degreasing or coating removal

How They Work

Each inhibitor contains a special chemical combination that vaporizes and condenses on all surfaces in an enclosed area. Vapors will redeposit as needed in the event of condensation of moisture on surfaces. These vapors reach every part of an enclosure, protecting all interior components. Spraying, wiping or greasing are not required. This eliminates precoating, special wraps and drying agents. Protection is effective even in salt-water atmospheres. The AHCI5E and AHCI10E emitters have additional red-metal inhibitors for further protection. Enclosures containing corrosion inhibitors must be reasonably sealed.

Life Expectancy and Usage

The normal useful life-span of Hoffman corrosion inhibitors is in excess of one year. However, inhibitor life expectancy is shortened by approximately 25 percent when exposed to temperatures above 104 F (40 C). This product is not recommended for use where temperature exceeds 199 F. Since Hoffman corrosion inhibitors are vapor-phase protective, all surfaces to be protected should be accessible to the vapors. The maximum distance the vapors can travel is approximately 1.50 ft. (.46 m). Protection of long, narrow enclosures can be achieved with tape or multiple inhibitors.

Storage and Handling

Each Hoffman corrosion inhibitor is individually packaged in a resealable bag for maximum effectiveness at the time of usage. Corrosion inhibitors should be stored at temperatures not exceeding 120 F (45 C). Hoffman corrosion inhibitors are not returnable.

When determining the proper corrosion inhibitor for your application, assume the enclosure volume to be protected is greater than calculated if (1) cabinet doors are opened frequently, (2) cabinet is located in an extremely corrosive area and/or (3) cabinet length divided by depth is greater than four.

AHCI1DV

Foam device protects one cubic foot (28 liters) of enclosure volume for approximately one year.
Size: .25 x 1.25 x 3.00 in. (6 x 32 x 76 mm)

AHCI5E

Emitter protects 5 ft.^{3} (142 liters) of enclosure volume for approximately two years from the date of manufacture. The useful life (protection) depends on the moisture surrounding the application. Severe environments recommend no more than 3 months before replacing, less severe recommend no more than 6 months before replacing. Emitters contain additional red metal (non-ferrous) inhibitors.
Size: 2.31 in. (diameter) x 0.81 in. (high) (59 mm x 21 mm)

AHCI10E

Emitter protects 10 ft.^{3} (283 liters) of enclosure volume for approximately two years from the date of manufacture. The useful life (protection) depends on the moisture surrounding the application. Severe environments recommend no more than 3 months before replacing, less severe recommend no more than 6 months before replacing. Emitters contain additional red metal (non-ferrous) inhibitors.
Size: 2.31 in. (diameter) x 1.38 in. (high) (59 mm x 35 mm)

AHCI60R

Tape protects 60 ft.^{3} of enclosure volume per roll. Use approximately 2.50 in. (63 mm) of tape per cubic foot (28 liters) of enclosure volume to be protected. Each roll of tape is packaged individually in a resealable bag.
Size: .25 in. x .75 in. x 12.00 ft. (6 mm x 19 mm x 3.6 m)

AHCI240R

Tape protects 240 ft.^{3} of enclosure volume per roll. Use approximately 1.00 in. (25 mm) of tape per cubic foot (28 liters) of enclosure volume to be protected. Each roll of tape is packaged individually in a resealable bag.
Size: .25 in. x 2.00 in. x 20.00 ft. (6 mm x 51 mm x 6.1 m)

AHCI238S

Spray is a non-conductive, nonflammable, vapor-phase film and is non-toxic. It has essentially neutral pH value. Application provides instant protection against corrosion. Spray is water soluble and can be easily flushed away with water if desired. This product should be kept from freezing and has a shelf life of 2+ years in normal warehouse conditions.

BULLETIN: A80

Standard Product

Catalog Number	Enclosure Volume Protected (ft.^{3})	Enclosure Volume Protected (liters)	Package Qty.
AHCI1DV	1	28.32	50
AHCI5E	5	141.6	25
AHCI10E	10	283.2	12
AHCI60R	60 per roll	1699 per roll	3
AHCI240R	240 per roll	6797 per roll	1
AHCI238S	Corrosion Inhibitor Spray	Corrosion Inhibitor Spray	6

Metal Protection Chart

Metal	Protected by Chemical	Unprotected by Chemical
Aluminum	Marked reduction of surface attack; no pitting	Severe surface attack; tarnish; pitting
Brass[a]	Decreased tarnish; very minor surface attack	Surface discoloration; pitting
Steel, Iron	No change	Severe corrosion
Copper[a]	Slight staining	Heavy corrosive attack
Zinc Plate	Slight discoloration	Severe corrosion
Tin Plate	Slight discoloration	Moderate corrosive attack

[a] AHCI5E and AHCI10E emitters are recommended for these materials

EPOXY PATCH KIT

Applications include sealing rivets, bolts, metal joints, seams and welds, cement cracks, pipe couplings, joints and tees. Each kit has two tubes of material, application instructions and a mixing stick. When the resin and hardener are mixed, a gray epoxy is formed which cures at room temperature, has high adhesion and will not sag. It is resistant to oils, acids and chemicals.

BULLETIN: A80

Catalog Number	Description
A307	Epoxy Patch Kit

TOUCH-UP PAINT

Hoffman touch-up paint is used to repair the finish of enclosures and panels. Furnished in 12-oz. spray cans.

BULLETIN: A80, DACCY, P20

Catalog Number	Color
ATPWE	Hoffman #60 White
ATPW	RAL 9003 Signal White
ATPTW	RAL 9016 Traffic White (S094)
ATPPW	RAL 9010 Pure White
ATPBS	F63VXW8736 SW Cream
ATPC	RAL 9001 Cream
ATPOW	RAL 1013 Oyster White
ATPGW	RAL 9002 Gray White (IH148)

Catalog Number	Color
ATPLI	RAL 1015 Light Ivory
ATPDLB	Hoffman #78T DesignLine Beige Enamel
ATPG7035	RAL 7035 Light Gray (T012)
ATPPG	RAL 7032 Pebble Gray
ATPOF	RAL 9002 Gray White (S065)
ATPLGGMW	GMW-01 Light Gray
ATPLG	RAL 7035 Light Gray (S052)
ATPAG	RAL 7038 Agate Gray
ATPLGA70	ANSI 70 Light Gray
ATPPY61	ANSI 61 Hoffman Standard Gray
ATPDG	ANSI 49 Dark Gray
ATPBG	RAL 7012 Basalt Gray
ATPSG	Satin Gray Enamel
ATPMG	Hoffman #82 Slate Gray Enamel
ATPHS61	High Solids ANSI 61 Gray
ATPFG	Light Gray for fiberglass
ATPG7032	RAL 7032 Gray
ATPSY	#5. YB.0/12 OSHA Safety Yellow
ATPR	RAL 3001 Signal Red
ATPO	RAL 2004 Pure Orange
ATPSB	RAL 5015 Sky Blue
ATPSAB	#2.5PB3.5/10 OSHA Safety Blue
ATPPB	#96Y-23665 Precaution Blue
ATPB	RAL 5005 Signal Blue
ATPRG	RAL 6011 Reseda Green
ATPOG	RAL 6003 Olive Green
ATPMGN	PSPL350001 Munsell Green
ATPMB	#2.5Y 5/2 Munsell BrownB
ATPB9005	RAL 9005 Black
ATPB7021	RAL 7021 Black
ATPBL	Black Lava (S109)
ATPBM	RAL 9005 Jet Black (T009)
ATPJB	RAL 9005 Jet Black (S067)

TOUCH-UP PAINT PENS

Hoffman touch-up paint pens are used to repair the finish of enclosures and panels. Furnished in .33-oz. pens.

BULLETIN: A80

Catalog Number	Paint Color
ATPG7035LP	RAL 7035 Light Gray
ATPW60HGP	Hoffman #60 White
ATPG20GLP	ANSI 61 Gray

TERMINAL BLOCK KIT ASSEMBLY FOR JUNCTION BOXES

Provides a strong, versatile and easily installed means for mounting terminal blocks in Hoffman junction boxes and other enclosures. These kits can be installed in:

1. Oil-Tight Junction Boxes
2. Fiberglass Type 4X Enclosures
3. Hinged Cover Lift-Off Type 3R Enclosures (16 gauge only)

These kits will NOT fit in Small Wall-Mount Enclosures or HCR Type 3R Enclosures.

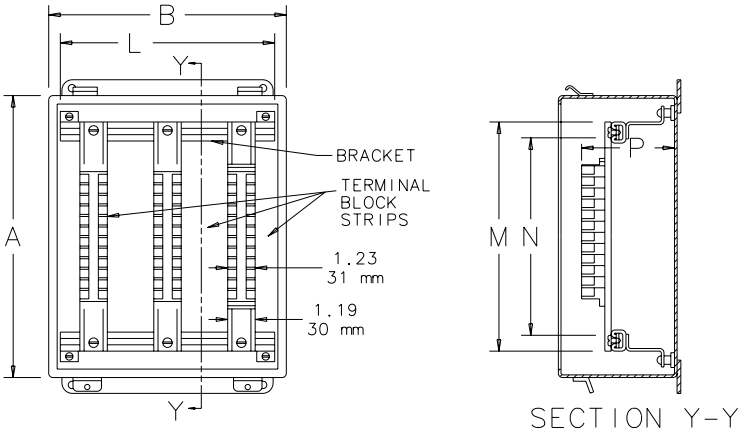
How To Order

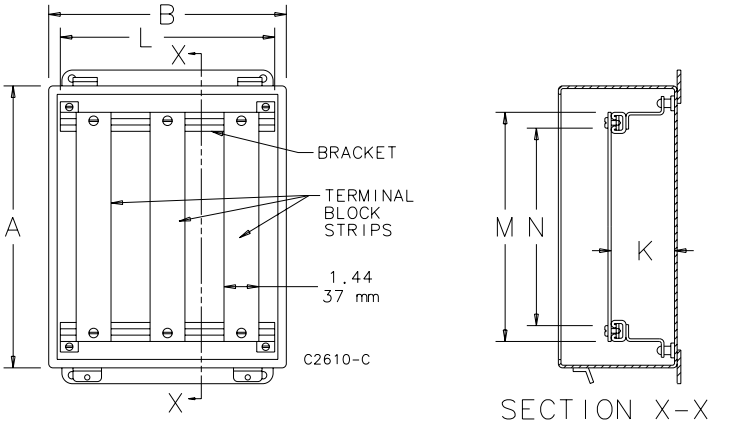
Terminal Kit Assemblies can be installed with the terminal straps or terminal strips parallel to the A dimension or the B dimension of the box. Each box requires one bracket assembly plus the desired number of terminal straps or terminal block strips. The bracket assembly and the terminal straps or terminal block strips must be ordered separately.

1. To select the correct terminal straps or terminal block strips, determine whether they will be mounted parallel to the A dimension or parallel to the B dimension of the box. **Be sure to specify the quantity required.**
2. To select the correct bracket assembly, determine whether the brackets will be mounted parallel to the A dimension or to the B dimension of the box.

Component	Quantity	Comments
Bracket Assembly	1	Mount parallel to A or B dimension
Terminal Straps	As required for installation; specify when ordering	Use straps or strips
Terminal Block Strips	As required for installation; specify when ordering	Use straps or strips

Terminal Block Kit Assembly for Junction Boxes





TERMINAL BLOCK BRACKET ASSEMBLIES FOR JUNCTION BOXES

Each bracket assembly consists of two brackets which mount on the weldnuts in the box. White finish over pretreated surfaces.

BULLETIN: A80

Catalog Number	Enclosure Dimension Parallel to Brackets	K in./mm	L in./mm
A6JTMA	6	1.44 37	5.00 127
A8JTMA	8	1.44 37	7.00 178
A10JTMA	10	1.44 37	9.00 229
A10JTMAXK	10	2.69 68	9.00 229
A12JTMA	12	2.69 68	11.00 279
A14JTMA	14	2.69 68	13.00 330

TERMINAL BOX STRAPS FOR JUNCTION BOXES

A terminal strap is a 12 gauge flat strap which mounts on top of the brackets. The straps can be positioned anywhere along the brackets and are held in place with spring locking nuts. White finish over pretreated surfaces. Terminal blocks are not included with terminal straps. Does not work with DIN rail-mounted terminal blocks.

BULLETIN: A80

Catalog Number	Enclosure Dimension Parallel to Straps	K in./mm	M in./mm	Useable Space, N in./mm
A8JS	8	1.44 37	5.75 146	4.62 117
A10JS	10	1.44 37	7.75 197	6.62 168
A12JS	12	1.44 37	9.75 248	8.62 219
A14JS	14	2.69 68	11.70 297	10.62 270
A16JS	16	2.69 68	13.70 348	12.62 321

TERMINAL BLOCK STRIPS FOR JUNCTION BOXES

A terminal block strip is a flat channel holding Buchanan 600V terminal blocks with tubular clamp contacts assembled on the channel. These terminal blocks will accept wire sizes from #22 through #10. The number of terminal blocks assembled on each channel is shown in the table. The terminal block strips can be positioned anywhere along the brackets and are held in place with spring locking nuts. The channel has a plated finish. Terminal blocks are included with terminal block strips. Marathon terminal blocks can be provided on special order. Other brands and sizes of terminal blocks are available on special order.

BULLETIN: A80

Catalog Number	Enclosure Dimension Parallel to Strips	Terminal Blocks per Strip	M in./mm	Useable Space, N in./mm	P in./mm
A8JBNS	8	8	5.75 146	4.62 117	3.00 76
A10JBNS	10	12	7.75 197	6.62 168	3.00 76
A12JBNS	12	16	9.75 248	8.62 219	3.00 76
A14JBNS	14	20	11.75 298	10.62 270	4.25 108
A16JBNS	16	24	13.75 349	12.62 321	4.25 108

TERMINAL BLOCK KIT ASSEMBLY FOR TYPE 4, 12 AND 13 ENCLOSURES

Provide strong, versatile and easily installed terminal block mounting supports. These assemblies fit many single-door Hoffman enclosures. They also fit large Type 1 enclosures and the larger sizes of Hinged Cover Lift-Off Type 3R enclosures as well as most of the Two-Door Wall-Mounted Type 12 enclosures. Kits have white finish over pretreated surfaces. Terminal Block Kit Assemblies can be installed with straps parallel to the A dimension or the B dimension of the enclosure.

How To Order
Each enclosure requires one bracket assembly plus the desired number of terminal straps. The bracket assembly and the terminal straps must be ordered separately.

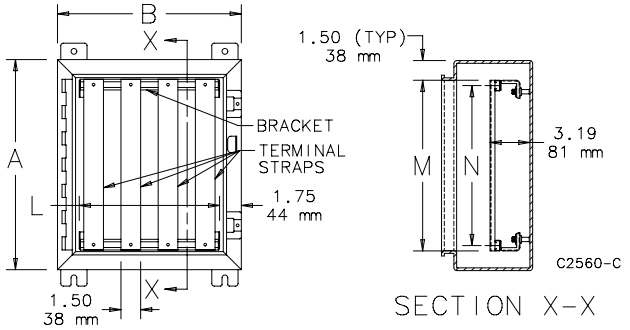
1. To select the correct terminal straps, determine whether the terminal straps will be mounted parallel to the A dimension or the B dimension of the enclosure. **Be sure to specify the quantity required.**
2. To select the correct bracket assembly, determine whether the brackets will be mounted parallel to the A dimension or the B dimension of the enclosure. Refer to the table.

One bracket is required for each row of collar studs parallel to the brackets. As a result, if the enclosure dimension is 24.00 in. (610 mm), 30.00 in. (762 mm) or 36.00 in. (914 mm) and if two brackets are needed to cover all of the collar studs order A___NTMA2; if three brackets are needed to cover the studs order A___NTMA3.

For example: If you have an A302406LP enclosure and want five terminal straps running horizontally, order one A24NTMA2 bracket assembly plus five A30T straps. If you have an A483008LP enclosure and want six terminal straps running vertically, order one A30NTMA3 bracket assembly plus six A48T straps. If you have an A363006LP enclosure and want seven terminal straps running horizontally, order one A36NTMA2 bracket assembly plus seven A30T straps.

Terminal blocks are not included. Be sure to order one bracket assembly plus the desired number of terminal straps for each enclosure.

Component	Qty Required	Comments
Bracket Assembly	1	Terminal blocks are not included
Terminal Straps	Depends on installation	Specify quantity when ordering
Terminal Strap Support Kit	One kit per strap	Optional



BRACKET ASSEMBLY FOR TYPE 4, 12 AND 13 ENCLOSURES

Each bracket assembly consists of two or three brackets which mount on the enclosure collar studs. White finish over pretreated surfaces.

BULLETIN: A80

Catalog Number	Number of Brackets	Enclosure Dimension Parallel to Brackets (in.)	Enclosure Dimension Parallel to Brackets (mm)	Bracket Length, L (in.)	Bracket Length, L (mm)
A12NTMA2	2	12.00	305	8.50	216
A16NTMA2	2	16.00	406	12.50	318
A20NTMA2	2	20.00	508	16.50	419
A24NTMA2	2	24.00	610	20.50	521
A24NTMA3	3	24.00	610	20.50	521
A30NTMA2	2	30.00	762	26.50	673
A30NTMA3	3	30.00	762	26.50	673
A36NTMA3	3	36.00	914	32.50	826

TERMINAL STRAPS FOR TYPE 4, 12 AND 13 ENCLOSURES

The terminal straps can be positioned anywhere along the brackets and are held in place with spring locking nuts. This feature makes wiring easy and simplifies the addition of terminal straps at a later date. White finish over pretreated surfaces.

BULLETIN: A80

Catalog Number	Enclosure Dimension Parallel to Straps	M (in.)	M (mm)	Useable Space, N (in.)	Useable Space, N (mm)
A16T	16	13.00	330	11.75	298
A20T	20	17.00	432	15.75	400
A24T	24	21.00	533	19.75	502
A30T	30	27.00	686	25.75	654
A36T	36	33.00	838	31.75	806
A42T	42	39.00	991	37.75	959
A48T	48	45.00	1143	43.75	1111
A60T	60	57.00	1448	55.75	1416

TERMINAL STRAP SUPPORT KIT

Designed to provide a simple and versatile method of mounting terminal straps. The Z-shaped brackets are 1.50-in. (38-mm) high with white finish. Brackets can be attached to panels or to enclosure walls. A terminal strap is then installed on the brackets. Terminal straps must be ordered separately. Two brackets are furnished with each kit. Spacing between brackets will depend on the number and size of terminal blocks installed on the terminal strap. We recommend a maximum spacing of 15 in. (381 mm) for an average installation.

BULLETIN: A80

Catalog Number	Description
ATZ	Two Z-shaped brackets

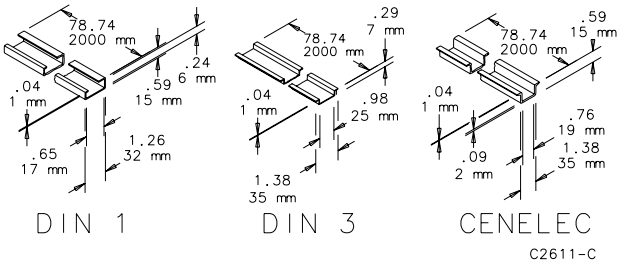
Terminal strap NOT included.

DIN TYPE RAILS

DIN Type Rails receive terminal blocks, relays, switches, filters, timers and various other electrical and electronic components manufactured by European, Japanese and U.S. firms. Available in three styles: (1) asymmetric, DIN 1 profile; (2) symmetric, DIN 3 profile; (3) heavy-duty CENELEC profile. All DIN rails are 78.74-in. (2000-mm) long and plated.

BULLETIN: A80

Catalog Number	Description
ADNR1	DIN 1 mounting rail TS32
ADNR3	DIN 3 mounting rail TS35x7.5
ACENR1	CENELEC mounting rail TS35x15



NEMA 5-15R DIN-MOUNTED OUTLETS

INDUSTRY STANDARDS

UL Component Recognized; File No. E222026
cUL Component Recognized; File No. E222026

Ingress protection: IP 20

APPLICATION

The DIN rail-mounted electrical receptacle can be quickly fitted and connected inside enclosures, allowing the use of auxiliary products such as hand lamps and power tools. The unit is available with and without fuses, and in many world outlet standards.

FEATURES

- Tool-less touch-safe wire connections
- Fused and non-fused offerings
- Light-weight composite enclosures
- Easily DIN-mounted
- Small form factor
- Wide operating temperature ranges

SPECIFICATIONS

- Connection: three cage clamps for solid and stranded wire AWG 20-14 (0.5-2.5mm²)
- Housing: plastic, UL94 V-0, light grey
- Fuse: Type 5 x 20 mm dia. (Tubular)
- Integral mounting clip for 35mm DIN rail, EN 60 715
- Mounting position: vertical
- Operating / storage temperature -49 F to +158 F (-45 C to 70 C)
- Dimensions : 3.6 x 2.4 x 1.9 (92mm x 62mm x 48mm)
- Weight: approximately 7.1 oz. (200g)
- Standard NEMA receptacle 5-15R
- Maximum Voltage: 125 VAC
- Protection class I (grounded)

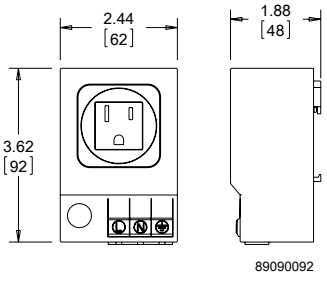
FINISH

Composite, smooth texture, light gray

BULLETIN: A80

Standard Product

Catalog Number	AxBxC in./mm	AMP Rating	Fused
ADINP120A	3.54 x 2.44 x 1.97 90 x 62 x 50	15 A	No
ADINP120F	3.54 x 2.44 x 1.97 90 x 62 x 50	6.3 A	Yes



DIN 3 RAIL, SELF-ADHESIVE

FEATURES

- DIN 3-style, symmetrical
- Adhesive mount; fastener-capable
- 43mm length
- Constructed from UL 94V-0 rated black plastic
- Sold in qty. five per catalog number
- Optional screw mount; (5) 10-32 / M5 provided

SPECIFICATIONS

- Load 1.1 lbs. (500g) after a 24-hour waiting period
- Mounting self-adhesive (non-aging, high-performance adhesive strip)
- Material plastic UL 94V-0, black
- Hole pattern 0.5 in. (12.8 mm) distance, Ø 0.14 in. (3.6mm)
- Operating / Storage temperature -49 F to +158 F (-45 C to 70 C)
- Dimensions 1.7 x 1.5 x 0.55 (43mm x 38mm x 14mm)

FINISH

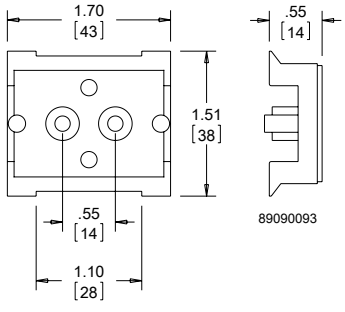
Composite, smooth texture, black

BULLETIN: A80

Standard Product

Catalog Number	AxBxC in./mm	Max. Load Rating[a]
ADIN3PA42	0.47 x 1.65 x 1.42 12 x 42 x 36	1.1 lbs (500g)

[a] 24-hour cure time prior to applying load



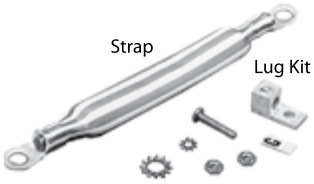
INDUSTRY STANDARDS

Material conforms to UL 94V-0

APPLICATION

Convenient, symmetrical, 1.7 in. (43mm) DIN 3 rail with pressure-sensitive, peel-and-stick adhesive. Can be mounted to various surfaces, in a variety of locations. Fasteners may also be used (five provided per kit) for increased load rating. DIN rail is made of UL 94V-0 rated material. Five self-adhesive DIN rails per kit.

GROUNDING DEVICE



Grounding lug is designed to provide a means of attaching a grounding conductor to an electrical enclosure. Will accept wire sizes 2 through 14. Grounding Straps can be used to provide electrical continuity between metal parts which must be electrically connected. Each strap consists of a length of braided copper with a ring terminal at both ends. Braid is insulated with green and yellow striped plastic.

BULLETIN: A80

Catalog Number	Description	Approximate Wire Size (AWG)	Length Between Ring Terminals C-to-C (in.)	Length Between Ring Terminals C-to-C (mm)	Ring Terminal Hole Diameter (in.)	Ring Terminal Hole Diameter (mm)
AGS808	Grounding Strap	#8	8.19	208	0.406	10
AGS816	Grounding Strap	#8	16.19	411	0.406	10
AGS408	Grounding Strap	#4	8.19	208	0.406	10
AGS416	Grounding Strap	#4	16.19	411	0.406	10
AGLK2	Grounding lug kit	2-14	—	—	—	—

GROUNDING BAR SYSTEM

APPLICATION

Three sizes of grounding bars and insulated mounting brackets are available. Bars are plated copper with M6 and M5 tapped holes to provide a common point for grounding equipment. Fits all enclosures if mounted vertically. See table for horizontal mounting.

BULLETIN: P20

Catalog Number	Description	Length mm/in.	Number of Holes and Screws M6	Number of Holes and Screws M5
PGS2K	Fits 400-mm deep frame front-to-back horizontally	200 7.87	3/5	10/10
PGS4K	Fits 600-mm deep frame front-to-back horizontally	400 15.75	9/11	20/20
PGS6K	Fits 800-mm deep frame front-to-back horizontally	600 23.62	15/17	30/31

INDUSTRY STANDARDS

UL Component Recognized; File No. E61997

PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

REPLACEMENT PANEL-MOUNT HARDWARE KIT

Replacement hardware kit for panel mounting and grounding. Suitable for CONCEPT enclosures. Hardware kit comes with M8 panel mounting nuts, panel grounding hardware and sealing washers.

BULLETIN: A80

Catalog Number	Description
GRDM8PMHDWK	Panel Mount Hardware Kit

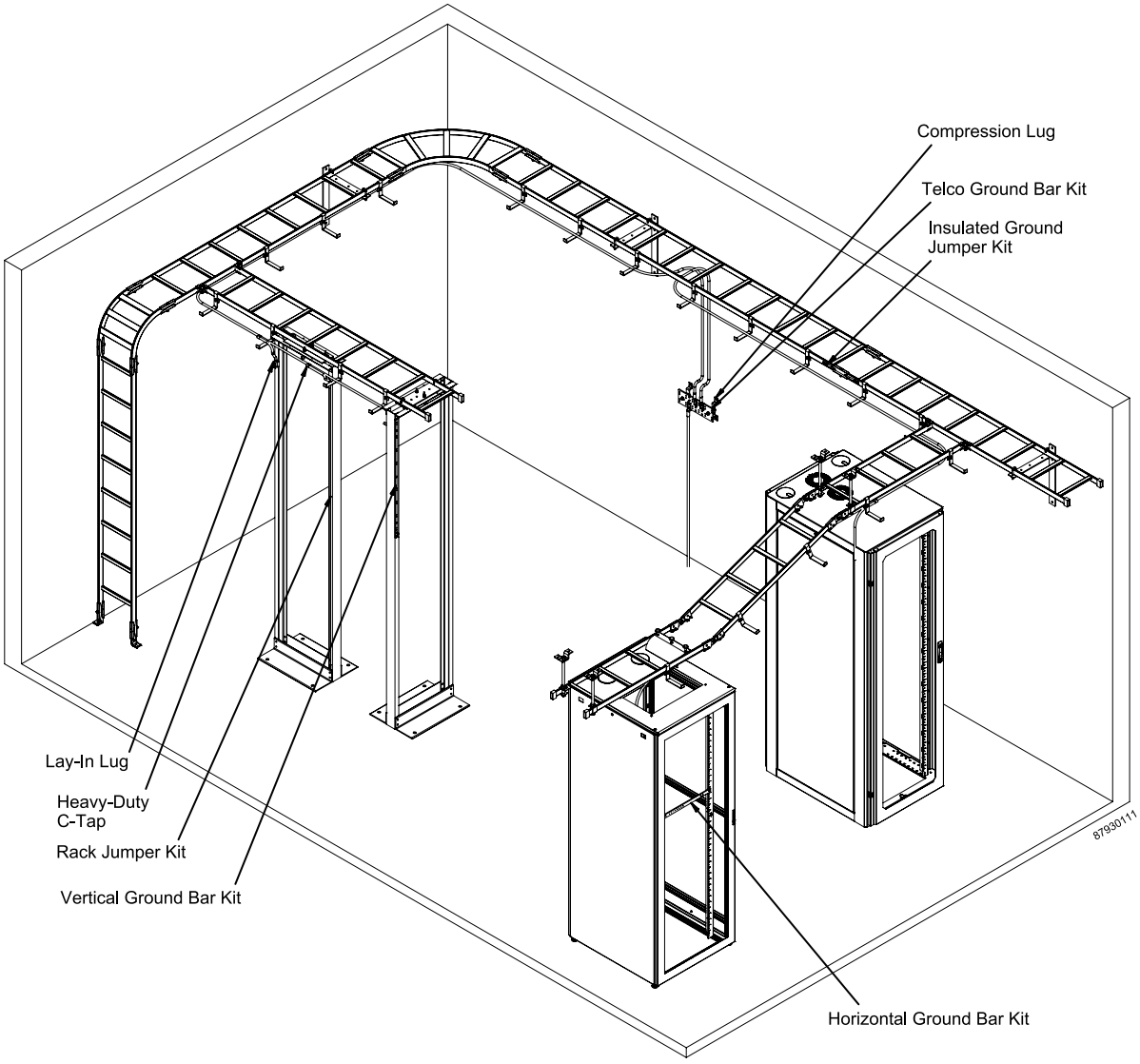
GROUNDING KIT

These grounding kits come with mounting hardware, ground label and installation instruction. Cables are not included.

BULLETIN: A80

Catalog Number	Description	Hardware Size
SMGDK	Small grounding kit	10-32
LRGGDK	Large grounding kit	1/4-20
LRGGDKSS	Large grounding kit for stainless steel	M6

BONDING AND GROUNDING OVERVIEW



INDUSTRY STANDARDS

Ground Bar Kits:

UL 467 Listed
cUL Listed per CSA C22.2 No. 41
File No. E319377

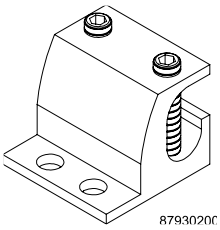
APPLICATION

These components meet open frame rack and cabinet bonding and grounding requirements for telecommunication room and server room applications.

FEATURES

- Components specially designed to efficiently facilitate reliable connections
- Enable system to meet equipment manufacturer grounding requirements
- Components fit EIA 310-D-rated open frame racks

LAY-IN LUG

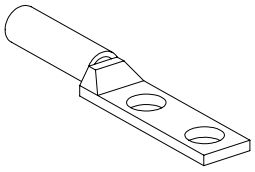


Dual-rated, UL486B listed lay-in lug bonds end of cable securely to rack. Made of electroplated 6061-T6 aluminum. Requires 3/16-in. hex key (not included).

BULLETIN: DBG

Catalog Number	For Cable Size Range	Size (in.)	Size (mm)	Pkg. Qty.
DGLG	#14 AWG to 2/0	1.75 x 1.50	44 x 38	10

COMPRESSION LUGS

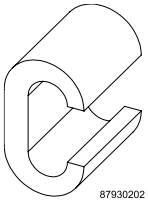


Compression lugs terminate copper or tinned-copper conductors for connection to busbars, cabinets, racks, and cable runway. Color-coded by conductor size. Made of electroplated, tinned copper. Require two screws (not included).

BULLETIN: DBG

Catalog Number	Cable Size (#)	On-Center Dimension Between Holes	Required Screw Size	Color Code	Pkg. Qty.
DGCL61	6	.625	1/4	Blue	10
DGCL62	6	1.00	3/8	Blue	10
DGCL21	2	.625	1/4	Brown	10
DGCL22	2	1.00	3/8	Brown	10
DGCL201	2/0	1.00	3/8	Black	10
DGCL402	4/0	1.00	3/8	Purple	10

HEAVY-DUTY C-TAPS

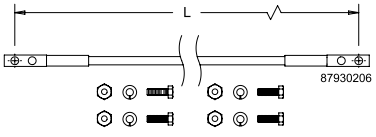


C-Taps splice two stranded or solid connectors together. Made of copper. Require a crimping tool (not included) to correctly tighten C-Taps around connectors.

BULLETIN: DBG

Catalog Number	Conductor Run	Conductor Tap	Pkg. Qty.
DGT1	#2 stranded or solid	#4 stranded, #8 solid	10
DGT2	#2 stranded or solid	#2 stranded or solid	10

INSULATED GROUND JUMPER KIT



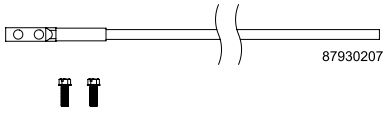
Fastens across splices to provide a secure ground between sections of ladder rack. Made of #6 AWG x 7 strand wire with green THW insulation and two-hole compression lugs mounted on each end. Includes fasteners.

BULLETIN: DBG

Catalog Number	Conductor Type	L (in.)	L (mm)
DGJ	#6-7 Stranded	12.00	305

cULus requires 2 kits per splice on all painted ladder sections

RACK JUMPER KIT



Grounds rack or cabinet to common bonding network under floor or overhead. Made of #6 AWG x 7 strand wire with green THW insulation and two-hole compression lug mounted on one end. Includes fasteners.

BULLETIN: DBG

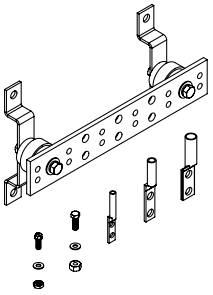
Catalog Number	Conductor Type	Length (ft.)	Length (m)
DGRJ	#6-7 stranded	9	2.7

TELECOMMUNICATIONS GROUND BAR KITS

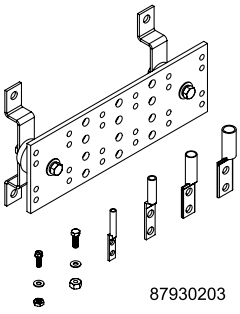
Provide a convenient central location for connecting grounds from telecommunications equipment, computers, and other network equipment. Made of copper. Kits include ground bar with two mounting brackets, an assortment of connectors, and a tube of antioxidant.

BULLETIN: DBG

2-inch Wide Bar



4-inch Wide Bar



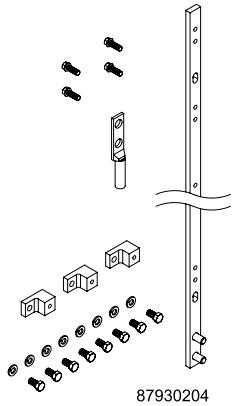
87930203

Standard Product

Catalog Number	Bar Size in./mm	No. of 5/16-in. Hole Sets	No. of 7/16-in. Hole Sets	#6 Wire Size (DGCL61)*	#2 Wire Size (DGCL22)*	#2/0 Wire Size (DGCL201)*	#4/0 Wire Size (DGCL402)*
DGTB212	2.00 x 12.00 x .25 51 x 305 x 6	6	3	6 lugs	3 lugs	1 lug	0 lugs
DGTB216	2.00 x 16.00 x .25 51 x 406 x 6	8	3	6 lugs	3 lugs	1 lug	0 lugs
DGTB412	4.00 x 12.00 x .25 102 x 305 x 6	12	6	6 lugs	3 lugs	1 lug	1 lug
DGTB420	4.00 x 20.00 x .25 102 x 508 x 6	24	6	6 lugs	3 lugs	1 lug	1 lug

* Number of compression lugs included with Ground Bar Kits

VERTICAL GROUND BAR KITS



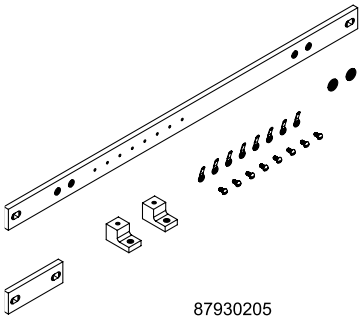
87930204

Mount vertically on rack, providing a convenient place to connect equipment grounds. Made of electrolytic tough-pitch 110 copper alloy. Kits include ground bar with compression lug for #2 wire, connection hardware, and mounting hardware.

BULLETIN: DBG

Catalog Number	Bar Size (in.)	Bar Size (mm)
DG36	36.00 x .625 x .25	914 x 16 x 6
DG72	72.00 x .625 x .25	1829 x 16 x 6

HORIZONTAL GROUND BAR KITS



87930205

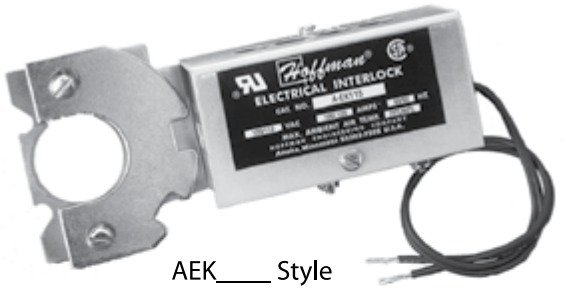
Mount horizontally on rack, providing a convenient place to connect equipment grounds. Made of electrolytic tough-pitch 110 copper alloy. Kits include ground bar with mounting hardware, eight #6-32 x 14 machine screws, and eight #6 ring terminals.

BULLETIN: DBG

Catalog Number	Bar Size (in.)	Bar Size (mm)
DG19	1.00 x 19.25 x .25	25 x 489 x 6
DG23	1.00 x 23.25 x .25	25 x 591 x 6

nVent | HOFFMAN

ELECTRICAL INTERLOCKS



AEK____ Style

AEK____NDH Style

INDUSTRY STANDARDS

UL 508A Component Recognized; File No. E61997

CSA Certified; File No. 42186

APPLICATION

Provide positive internal safety lockout on electrical enclosures while the equipment is energized. Use catalog numbers AEK115, AEK230 and AEK460 are used with standard Hoffman door latching mechanisms. When energized, these interlocks prevent the door handle from being turned to open the door. Fit either clockwise or counterclockwise handles in the following enclosures:

1. All two-door Type 4 and 12 enclosures
2. All Type 4X with 3-point latch enclosures
3. Free-standing Type 12 enclosures
4. All one-door Type 12 enclosures with latch kits installed

The interlocks will fit the following enclosures, but modifications are required. Consult the factory for more information.

1. Two-door Type 12 enclosures for flange-mounted disconnects
2. Heavy duty free-standing Type 12 enclosures for flange-mounted disconnects
3. Modular Type 12 enclosures for flange-mounted disconnects
4. Multi-door Type 12 enclosures

The interlocks will also fit most Hoffman custom enclosures with door latching mechanisms similar to the mechanisms used on the preceding enclosures. AC electrical interlocks will not fit CONCEPT enclosures or Bulletin A25 and A26 enclosures. Interlocks are not designed to be used in place of the standard door or cover latch.

Catalog numbers AEK115NDH, AEK230NDH and AEK460NDH are designed to be used on some Hoffman enclosures and boxes which have exterior latching only. When energized, these interlocks will prevent the enclosure door from being opened. They fit on the door or cover of the following enclosures and maintain UL Type 4, 4X and 12 when properly installed per Hoffman instructions:

1. One-door Type 4 and 4X enclosures
2. Two-door Type 4 and 4X enclosures
3. One-door Type 12 enclosures
4. Larger sizes of CH, CHS, CHNF, CHNFSS and CHAL junction boxes
5. Type 1 and large Type 1 enclosures

The interlocks also fit in most Hoffman custom enclosures and boxes which have doors or covers hinged similar to doors or covers on the preceding enclosures.

Installation

AEK115, AEK230 and AEK460 mount on the inside of the enclosure door using the same screws which hold the door handle in place. The strike plate attaches to the existing latch assembly.

SPECIFICATIONS

- Rugged steel construction and plated finish
- Solenoids are rated for continuous duty and will stand up under heavy industrial use
- Packaged complete with a solenoid assembly, strike plate or bracket and instructions for field installation
- Handles and latch mechanisms are not included.

BULLETIN: A80

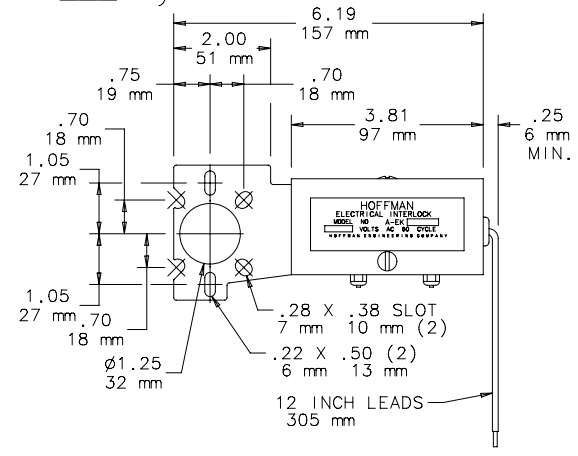
Standard Product **A-EK___ Style**

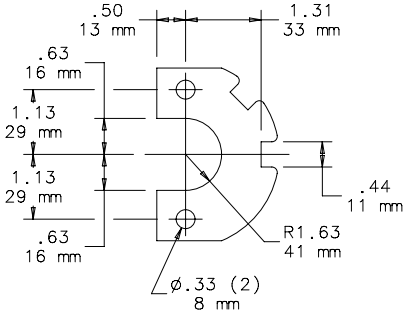
Catalog Number	Volts @ 50/60 Hz	Normal/Inrush Amps @ 60 Hz	Normal/Inrush Amps @ 50 Hz
AEK115	110/120	.100/.63	.120/.69
AEK230	220/240	.050/.32	.060/.35
AEK460	440/480	.025/.16	.030/.18

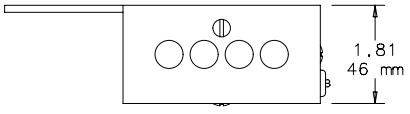
Standard Product **AEK___NDH Style**

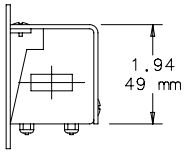
Catalog Number	Volts @ 50/60Hz	Normal/Inrush Amps @ 60 Hz	Normal/Inrush Amps @ 50 Hz
AEK115NDH	110/120	.100/.63	.120/.69
AEK230NDH	220/240	.050/.32	.060/.35
AEK460NDH	440/480	.025/.16	.030/.18

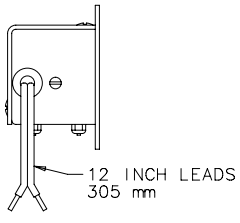
AEK____Style



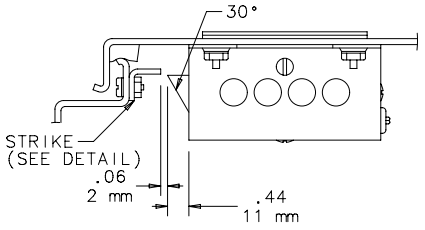


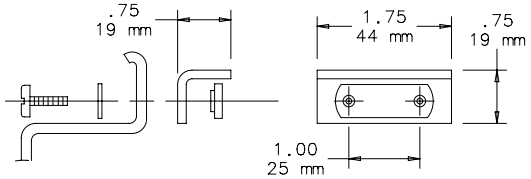




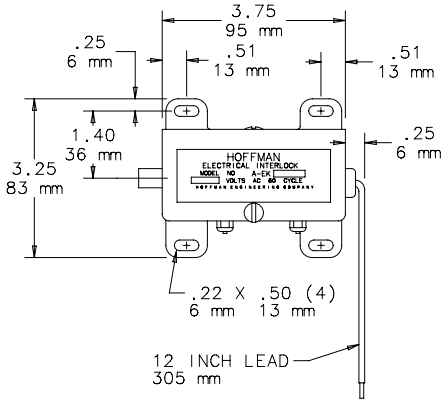


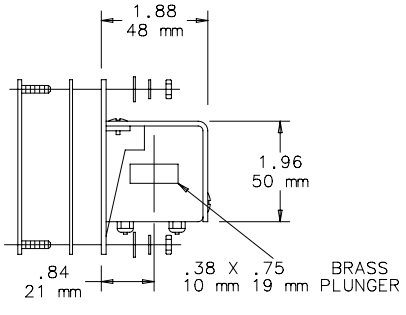
AEK____NDH Style





STRIKE DETAIL





C2603-C

ELECTRICAL INTERLOCK DEFEATER

Enables authorized personnel to enter an enclosure while the enclosure contents are energized. Defeater is a key-operated momentary contact switch with contacts normally closed. Turning the key disengages the circuit to the electrical interlock. Can be used with all 110/120 volt Hoffman electrical interlocks. A relay must be used in conjunction with switch for 220/240 volt and 440/480 volt applications.

BULLETIN: A80

Catalog Number	Description	Amps @ 120V/60 Hz Normal/ Inrush	Amps @ 110V/50 Hz Normal/ Inrush
AEKDF	Electrical interlock defeater	10 Max.	10 Max.

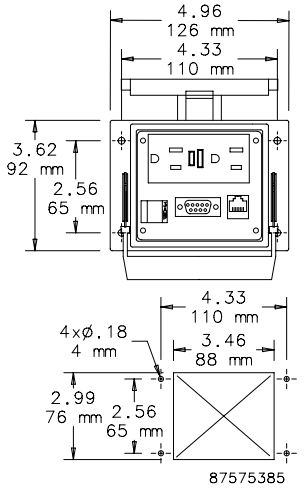
PANEL INTERFACE CONNECTOR

The panel interface connector provides a connection for a PLC or computer housed inside an enclosure without opening the enclosure door. It mounts on the outside of the enclosure. The HBE size 32 housing and hinged cover are die cast aluminum. The closed assembly is rated UL Type 4. The panel interface connector enclosure includes:

- A duplex receptacle
- A 9-pin D-sub pass-through connector
- An RJ 45 pass-through connector
- A 3-amp reset
- A covered terminal block with screw connections for the internal power connection

BULLETIN: A80

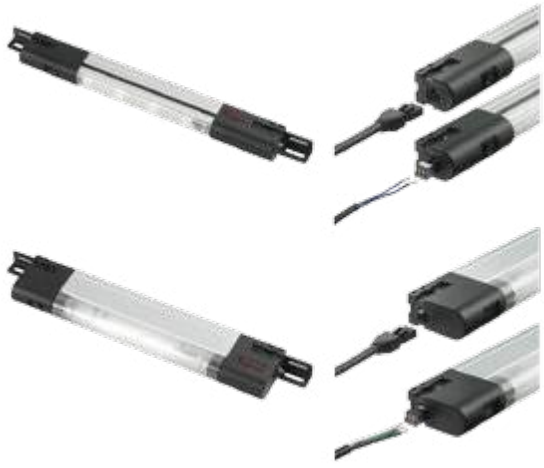
Catalog Number	Description
AC4DB9RJ45GFI	Panel Interface Connector



INDUSTRY STANDARDS

UL 508A Component Recognized; File No. E61997

PANELITE ENCLOSURE LIGHTS



INDUSTRY STANDARDS

PANELITE LED and Fluorescent Enclosure Lights

UL 508A Component Recognized; File No. E61997 cUL Component Recognized per CSA C22.2 No 14; File No. E61997

CSA File No. 42186
Maintains UL/CSA Type 4, 4X and 12 enclosure rating when properly installed in a Hoffman enclosure.

230 VAC Fluorescent Enclosure Light

UL 508A Component Recognized; File No. E234324 cUL Component Recognized per CSA C22.2 No 14; File No. E61997

CE

LED Light

UL 508A Component Recognized; File No. E234324 cUL Component Recognized per CSA C22.2 No 14; File No. E234324

CE
Ingress protection : IP 20
Maintains enclosure type rating up to 4X when installed per instructions

APPLICATION

Versatile, slim-profile LED and fluorescent lights provide mounting flexibility and are easy to install in any enclosure. Terminal blocks allow for easy wiring. Accessories include ganging cables, power cords and door switches, all provided with plug-and-play connectors for easy connection to the terminal blocks with an innovative terminal connection system. LED version provides superior lighting performance with minimal power consumption.

FEATURES

- Slim profile allows light to be tucked out of the way for easy panel installation
- Versatile mounting allows the light to be positioned horizontally or vertically; two-way mounting provides for ideal orientation
- Includes mounting hardware for the following enclosure installations: PROLINE Frame, Enclosure Top, Panel Mount and Unistrut
- On/off switch incorporated in light; optional remote door switch accessory available to activate light when enclosure door is opened (230 VAC Fluorescent Enclosure Light has switch or door-activated sensor)

PANELITE Only:

- Mounting tabs provide easy access point for attachment hardware; light does not need to be disassembled for installation
- Up to five lights can be daisy-chained together
- Plug-and-play terminal connection system:
  - Pre-wired connection sockets on both ends of light allow use of Hoffman cable accessories
  - Optional terminal blocks snap into the connection sockets, allowing customers to use their own wiring methods; two terminal blocks provided with each light kit
  - Power supply can be wired manually with Hoffman PANELITE Power Cable with Leads or with Hoffman optional PANELITE Power Cord
  - Ganging cables are available in 2-, 4- and 6-ft. lengths to easily join up to five lights together using one power supply
  - Remote door switch for easy door activation eliminates need to mount light in the exact location required to activate the light

LED Light Only:

- Mechanical screw- or magnetic mount (non-slip rubberized)
- Protection Class II (double insulated)
- Operating temperature -22 F to 140 F (-30 C to 60 C)
- On / Off or motion-sensor activation
- LED lights with 400 LM illumination; 120° angle of illumination
- Low, 5-watt power requirement
- Light-weight, all-composite construction
- Input and output connectors included with light (16 AWG)

SPECIFICATIONS

PANELITE:

- Extruded aluminum center support
- Black composite end caps
- Black composite mounting tabs
- Each light fixture includes two mounting tabs, two pre-wired connection sockets, two optional terminal blocks that snap into the connection sockets and enclosure attachment hardware (bulb not included with fluorescent light)

230 VAC Fluorescent Enclosure Light:

- Light gray composite construction – UL 94V-0 material
- Hardware kit provides fasteners to mount to PROLINE, NEMA (4, 4X, 12, and 13), CONCEPT, FUSION and other cabinets
- Easy-access terminal block that accommodates up to 16 AWG wires
- Fluorescent light bulb included (2G7 Base)

LED Light:

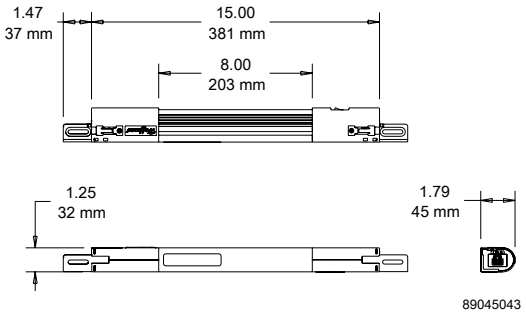
- LED (Light Emitting Diode) low-power light kit
- Screw mounting using included hardware kit (maintains enclosure rating up to UL Type 4X)
- No user-serviceable parts
- Life expectancy of 60,000 hours at 68 F (20 C) under specifications
- Operating temperature: -22 to +140 F (-30 to +60 C) under specifications
- 5-watt power consumption
- Transparent, composite construction

PANELITE LED ENCLOSURE LIGHT

- 24 VDC operation for superior lighting performance with minimal power consumption
- 140-degree cone angle casts a broad covering of neutral light between 3500 and 4500K color temperature
- Center section rotates 120 degrees to redirect light where needed
- Long life; 70 percent of initial luminance at 50,000 hours (at 25 C)
- High power LED emitters produce 470 Lumens for superior lighting performance
- Can be wired using optional PANELITE Cable Accessories or can be hard-wired with terminal blocks included in hardware kit
- Up to five lights can be daisy-chained together using hard-wired connection to power supply or catalog number LPC72 power cable with leads

BULLETIN: A80LT

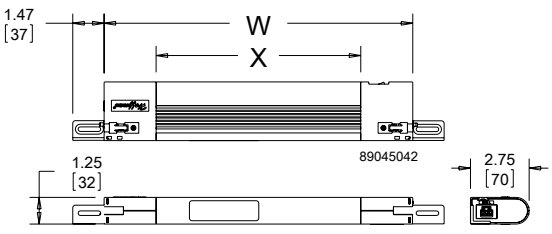
Catalog Number	Description	VDC	Amps	W in./mm	X in./mm
LED24V15	LED Light, 15 in.	24	.5	15.00 381	8.00 203



PANELITE FLUORESCENT ENCLOSURE LIGHT

- 120 VAC, 50/60 Hz operation
- Can be wired using optional PANELITE Cable Accessories or can be hard-wired with terminal blocks included in hardware kit
- Available in 15-, 18- and 28-in. lengths with ability to daisy chain up to five lights together using one power supply
- Fluorescent bulb not included

BULLETIN: A80LT



Catalog Number	Description	VAC	Hz	Amps	W in./mm	X in./mm	Bulb (purchase separately)	Replacement Lens Cover
LF120V15	Fluorescent Light, 15 in.	120	50/60	.13	14.50 368	9.63 245	F6T5	LFL15
LF120V18	Fluorescent Light, 18 in.	120	50/60	.13	17.50 445	12.63 321	F8T5	LFL18
LF120V28	Fluorescent Light, 28 in.	120	50/60	.26	27.75 705	22.88 581	F14T5	LFL28

REPLACEMENT HARDWARE KIT FOR PANELITE LED AND FLUORESCENT ENCLOSURE LIGHT

Relacement hardware kit is available for the replacement of lost or damaged hardware supplied with the PANELITE LED or Fluorescent Lights. Kit includes mounting brackets and all mounting hardware.

BULLETIN: A80LT

Catalog Number	Description
LED24VHDWK	Replacement hardware kit for PANELITE Enclosure Lights

PANELITE POWER CORDS

- Connects light to standard North American wall socket
- LF120VCORD is for 120 VAC Fluorescent lights (up to five lights can be daisy chained together using one power cord)
- LED24VCORD is for 24 VDC LED lights and includes a transformer to convert 100-240 VAC power supply (capable of powering only one LED light)
- Plugs directly into a connection socket on switch end of the light
- Includes one cable

Power cord not required. Terminal blocks are provided with each light for wired connection to electric supply.

BULLETIN: A80LT

Catalog Number	Description	Length
LF120VCORD	Fluorescent Light Power Cord	72 in.
LED24VCORD	LED Light Power Cord	60 in.

PANELITE POWER CABLE WITH LEADS

- 72-in. power cord provides convenient connection to an electrical supply
- Eliminates need to run and tag individual wires into the light
- Compatible with PANELITE LED and Fluorescent lights
- Plugs directly into connection socket on switch end of the light
- Includes one 16 AWG cable, black

Power Cable not required. Terminal blocks are provided with each light for wired connection to electric supply.

BULLETIN: A80LT

Catalog Number	Length
LPC72	72 in.

PANELITE GANGING CABLES

- Ganging Cables provide convenient method for joining up to five lights together while utilizing one power supply
- Available in 24-, 48- and 72-in. lengths
- Plugs directly into connection socket on either end of the light
- Compatible with PANELITE LED and Fluorescent lights
- Includes one 16 AWG cable, black

Ganging Cables not required. Terminal blocks are provided with each light for hard-wired connections.

BULLETIN: A80LT

Catalog Number	Length
LGCABLE24	24 in.
LGCABLE48	48 in.
LGCABLE72	72 in.

PANELITE DOOR SWITCH CABLE

- Easily connects PANELITE LED or Fluorescent Light to a Remote Door Switch
- T-connector allows the Door Switch Cable to be connected with a ganging cable or power supply to the switch end of the light
- Available in 18- and 72-in. lengths
- Includes one 18 AWG cable, black

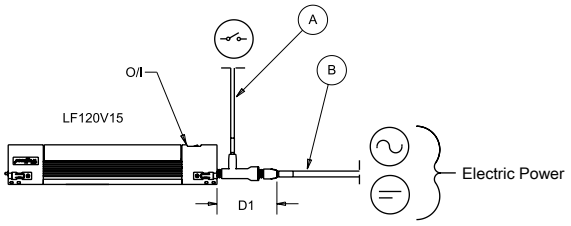
Door Switch Cables not required. Terminal blocks are provided with each light for hard-wired connection to remote door switch.

BULLETIN: A80LT

Catalog Number	Length
LDSWITCH18	18 in.
LDSWITCH72	72 in.

PANELITE WIRING OPTIONS

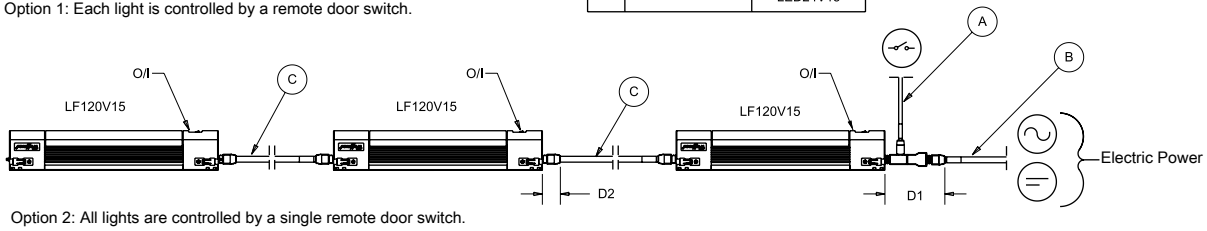
See the table on the drawing for cable clearance dimensions.



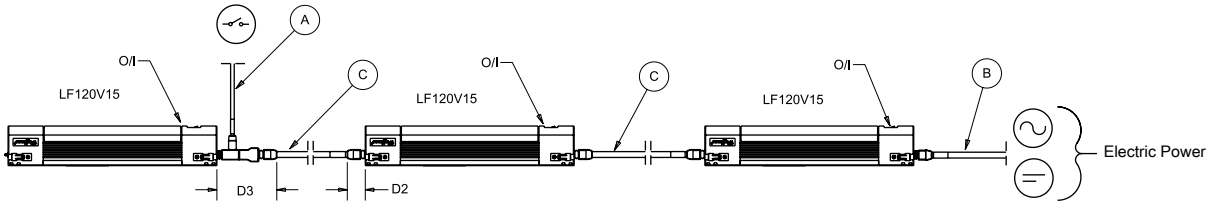
ITEM	CONNECTOR TYPE	LIGHT FIXTURE
A	LDSWITCH18 LDSWITCH72	LF120V15 LF120V18 LF120V28 LED24V15
B	LF120VCORD LPC72	LF120V15 LF120V18 LF120V28
	LED24VCORD	LED24V15
C	LGCABLE24 LGCABLE48 LGCABLE72	LF120V15 LF120V18 LF120V28 LED24V15

PLUG	DIMENSION	'D' MIN
A + B	D1	127 MM 5.00 IN
C	D2	51 MM 2.00 IN
A + C	D3	127 MM 5.00 IN

Option 1: Each light is controlled by a remote door switch.



Option 2: All lights are controlled by a single remote door switch.



Option 3: The last light is controlled by a remote door switch. The first two lights are manually operated.

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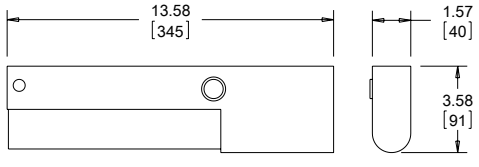
230 VAC FLUORESCENT ENCLOSURE LIGHT

- 230 VAC, 50/60 Hz operation with electronic ballast
- Compact light-gray plastic housing, UL 94V-0
- Easy access to wiring terminals, integral strain relief, 16 AWG max.
- Versatile mounting to many enclosure types
- Complete assembly, long-life fluorescent bulb included, Luminosity 900 LM
- Switch and Door motion sensor offering

BULLETIN: A80LT

Catalog Number	AxBxC in./mm	Description
LF230VM	1.57 x 13.58 x 3.58 40 x 345 x 91	Light Kit, 230VAC, Manual switch
LF230VD	1.57 x 13.58 x 3.58 40 x 345 x 91	Light Kit, 230VAC, IR Motion Sensor



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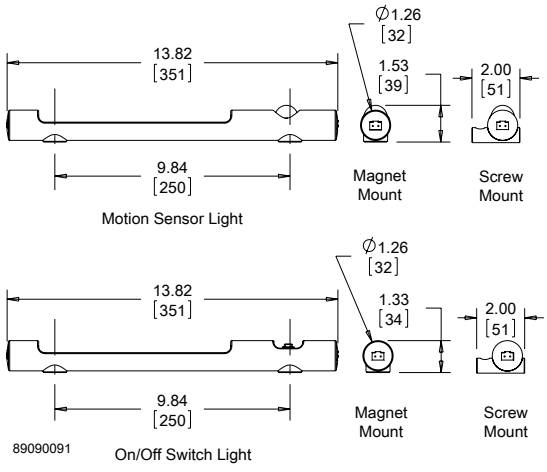
LED LIGHT KIT

BULLETIN: A80LT



LED light kits provide interior enclosure lighting. These light kits are ideal for remote and darkened enclosure applications. The light can be mechanically fastened with included hardware to maintain enclosure UL listing (up to Type 4X), or can be magnetically attached to flat steel surfaces. The lights have auto-sensing circuitry (AC voltage 90 VAC to 260 VAC and DC voltage 20 VDC to 60 VDC). LED lights are light-weight and in a small form factor while providing 400 LM of 6000-7000K light. Power consumption for all models is 5 watts.

Catalog Number	AxBxC in./mm	Weight (oz)	Weight (gm)	Mounting Style	Power Source	Activation	Voltage
LEDA1M35	1.34 x 1.26 x 13.82 34 x 32 x 351	4.8	135	Magnetic	AC	On/off switch	90 VAC-260 VAC
LEDA2M35	1.54 x 1.26 x 13.82 39 x 32 x 351	5.0	140	Magnetic	AC	IR Motion Sensor	90 VAC-260 VAC
LEDA1S35	1.42 x 2.05 x 13.82 36 x 52 x 351	4.8	135	Screw	AC	On/off switch	90 VAC-260 VAC
LEDA2S35	1.63 x 2.05 x 13.82 41 x 52 x 351	5.0	140	Screw	AC	IR Motion Sensor	90 VAC-260 VAC
LEDD1M35	1.34 x 1.26 x 13.82 34 x 32 x 351	4.8	135	Magnetic	DC	On/off switch	20 VDC-60 VDC
LEDD2M35	1.54 x 1.26 x 13.82 39 x 32 x 351	5.0	140	Magnetic	DC	IR Motion Sensor	20 VDC-60 VDC
LEDD1S35	1.42 x 2.05 x 13.82 36 x 52 x 351	4.8	135	Screw	DC	On/off switch	20 VDC-60 VDC
LEDD2S35	1.63 x 2.05 x 13.82 41 x 52 x 351	5.0	140	Screw	DC	IR Motion Sensor	20 VDC-60 VDC

LED LIGHT INPUT CONNECTOR/CABLE ASSEMBLY

The input connector/cable assembly is used to provide supply power to the LED light. Preassembled connector/cable assembly with 78.7-in. (2000 mm) long cable whip. Cables are constructed of 16 AWG copper wire.

BULLETIN: A80LT

Catalog Number	A in./mm	Power Source	Use with
LEDA20C	78.74 2000	AC	AC LED Lights
LEDD20C	78.74 2000	DC	DC LED Lights

LED LIGHT EXTENSION CONNECTOR/CABLE ASSEMBLY

The extension connector/cable assembly is used to connect adjacent LED lights (daisy chain). Up to 10 LED lights can be ganged or connected in series. Pre-assembled connector/cable assembly with 39.4-in. (1000 mm) long cable between input and output connectors. Cables are constructed of 16 AWG copper wire.

BULLETIN: A80LT

Catalog Number	A in./mm	Power Source	Use with
LEDA10E	39.37 1000	AC	AC LED Lights
LEDD10E	39.37 1000	DC	DC LED Lights

REMOTE DOOR SWITCHES

- The remote door switch can activate a light or other electrical component when the enclosure door is opened
- Mounts on enclosure frame and includes mounting hardware
- Mounting plate is 14 gauge steel with a plated finish
- Can be hard-wired to the PANELITE LED or Fluorescent light or connected via the PANELITE Door Switch Cable

BULLETIN: A80LT, P20

Catalog Number	Description
ALFSWD	Door switch assembly (order connection cable separately)
PLFSWD	Door switch assembly for PROLINE and PROLINE G2 (order connection cable separately)

TOUCH-SAFE UL LIGHT SWITCH

APPLICATION

The Touch-Safe light switch is designed to be used with Hoffman light kits (AC and DC). It provides a UL listed touch-safe switch that can be used on many enclosure types and includes hardware for most applications. The light switch maintains enclosure overall rating up to UL 508A Type 4X or 12.

FEATURES

- UL listed for a touch-safe wire connection
- Easily mounted to various enclosure types; common bracket and hardware included for many enclosure types (NEMA, CONCEPT/FUSION G7, PROLINE, Free-Stand Type 12)
- Cable PG compression hub
- Wide operating temperature range: -49°F to +158°F (-45°C to 70°C)
- Rugged die-cast anodized zinc construction
- Connection 3 cage clamps for solid and stranded wire AWG 20-14 (0.5-2.5mm²)
- Protection class I (grounded)

BULLETIN: A80LT

Catalog Number	Max. Cable Dia.	Max. Voltage
LDSWITCH	.375 in.	250 AC / 48 DC

MOUNTING BRACKET KIT FOR LIGHT PACKAGE

Kit simplifies mounting light package in Hoffman PROLINE disconnect enclosures. Includes brackets, all mounting hardware and complete instructions.

BULLETIN: A80LT

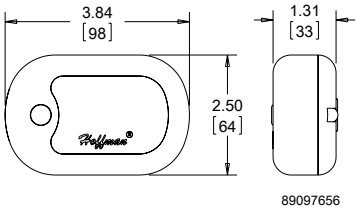
Catalog Number	Description
PDLFBRKT	Mounting Bracket Kit

LED PUCK LIGHT

The LED Puck Light is ideal for remote and darkened applications. This versatile light provides mounting flexibility; it can be magnetically attached to flat steel surfaces or can be hung with a swivel hook. This small form factor, light-weight LED light provides superior lighting performance with minimal power consumption. It can be used as a three-LED flashlight or as a 24-LED work light with operating temperature of 40 F to 120 F (4 C to 48 C). An on/off switch is incorporated in the light and three AAA batteries are included.

BULLETIN: A80LT

Catalog Number	AxBxC in./mm	Product Weight
LEDPUCK	2.25 x 3.75 x 1.38 57 x 95 x 35	0.22 lbs.



RACK- AND PANEL-MOUNT POWER DISTRIBUTION UNITS (PDUS)

FEATURES

- Power on/off LED indicates whether power is available at the PDU
- External ground stud provided on single-phase models for secure grounding
- Circuit breakers provide additional equipment protection
- Circuits are isolated on dual circuit model; each has its own circuit breaker
- Reset button provides easy access to circuit breaker reset
- Surge protector models have an indicator LED to verify surge circuitry protection
- Rack-mount models mount directly to rack or with adapter bracket
- Rack-mount models designed for single-phase applications
- Panel-mount models can be mounted flush or with hanging bracket

SPECIFICATIONS

- Steel housing
- Power cord with molded-on plug:
  - 12-in. (305-mm) long single-phase model: 6 ft. (1.8 m)
  - Other single-phase models: 15 ft. (4.6 m)

Contact Hoffman for custom modifications and non-standard offerings.

FINISH

Black, low-gloss textured paint.

BULLETIN: DPS

INDUSTRY STANDARDS

UL/cUL 60950 listed
UL 1449 (Surge protector models only)

EIA 310-D (19-in. rack-mount models only)

APPLICATION

Rack- and Panel-Mount PDUs not only provide convenient, reliable power to equipment mounted in cabinets or on open frame racks, they can also be configured to meet a wide range of design specifications.

Standard Product **Single-Phase Rack-Mount**

Catalog Number	Surge Protection	Amp Meter	Load Rating	Voltage (VAC)	Joule Rating	Receptacle Location	No. of Receptacles	Receptacle Style	Power Cord Plug	Rack Units
DP1N190615	No	No	15A	120	—	Front	6	NEMA 5-15R	NEMA 5-15P	1
DP1N191415	No	No	15A	120	—	6 front, 8 back	14	NEMA 5-15R	NEMA 5-15P	1
DP1N191015S	Yes	No	15A	120	2000	2 front, 8 back	10	NEMA 5-15R	NEMA 5-15P	1
DP1N191020	No	No	20A	120	—	2 front, 8 back	10	NEMA 5-20R	NEMA 5-20P	1
DP1N191020S	Yes	No	20A	120	2000	2 front, 8 back	10	NEMA 5-20R	NEMA 5-20P	1
DP1N191020ST	Yes	No	20A	120	2000	2 front, 8 back	10	NEMA 5-20R	NEMA L5-20P Twist Lock	1

Isolated circuits on dual-circuit models with separate circuit breakers.

Plugs and Receptacles

NEMA Type	Plug	Receptacle
NEMA 15 Amp, 120V, Duplex	5-15P	5-15R
NEMA 20 Amp, 120V, Duplex	5-20P	5-20R
NEMA 20 Amp, 120V, Twist Lock	L5-20P	L5-20R
30 Amp, 120/208V Wye, Twist Lock	L21-30P	L21-30R

IEC Type	Inlet	Outlet
IEC 15 Amp, 125/250V	C-14	C-13
IEC 20 Amp, 125/250V	C-20	C-19

87922518

Standard Product **Single-Phase Vertical-Mount**

Catalog Number	Length (in.)	Length (mm)	Surge Protection	Amp Meter	Load Rating	Voltage (VAC)	Joule Rating	No. of Receptacles	Receptacle Style	Power Cord Plug
DP1N120615	12.00	305	No	No	15A	120	—	6	NEMA 5-15R	NEMA 5-15P
DP1N160620S	16.00	406	Yes	No	20A	120	2000	6	NEMA 5-20R	NEMA 5-20P
DP1N481815	48.00	1219	No	No	15A	120	—	18	NEMA 5-15R	NEMA 5-15P
DP1N622415	62.00	1575	No	No	15A	120	—	24	NEMA 5-15R	NEMA 5-15P
DP1N622420	62.00	1575	No	No	20A	120	—	24	NEMA 5-20R	NEMA 5-20P
DP1N622420T	62.00	1575	No	No	20A	120	—	24	NEMA 5-20R	NEMA L5-20P Twist Lock
DP1N622420MT	62.00	1575	No	Yes	20A	120	—	24	NEMA 5-20R	NEMA L5-20P Twist Lock
DP1E2663030MT	66.00	1676	No	Yes	30A	208	—	36	24 IEC C-13, 6 IEC C-19	NEMA L6-30P Twist Lock

Isolate circuits on dual circuit models with separate circuit breakers.

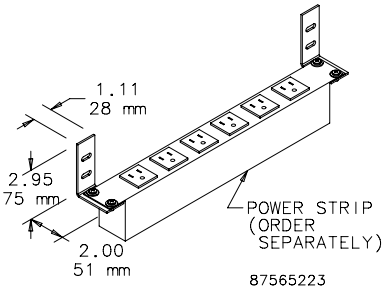
DP1E2663030MT includes input power monitoring with breaker level current monitoring, daisy chain Ethernet connectivity.

RACK-MOUNT PDU BRACKET

Allows rack-mount power strips to be mounted to cabinet sides without using up rack space. Made of plated steel. Includes two brackets and mounting hardware. Order power strip separately.

BULLETIN: DPS

Catalog Number	Finish	Pkg. Qty.
A19PSMB	Plated	2 brackets



UNIVERSAL POWER STRIP BRACKET

This bracket fits in the corner of the frame of all PROLINE cabinets and facilitates mounting a variety of power strips.

BULLETIN: DPY

Catalog Number	Description
EPDUBK	Universal Power Strip Bracket fits all PROLINE cabinets

IEC CORD SETS

Cord sets help minimize cord tangle, increasing airflow to equipment.

BULLETIN: DPS

Catalog Number	Description	Pkg. Qty.
DP5E	0.5-m (1.64-ft.) IEC patch cord. 18/3 SJT Black. C-14 to C-13	1
DP10E	1-m (3.28-ft.) IEC patch cord, 18/3 SJT Black. C-14 to C-13	1

IEC C-13 RETAINING CLIP

Secures the IEC C-14 inlet into the C-13 outlet. Helps to prevent inadvertently unplugging the cord set.

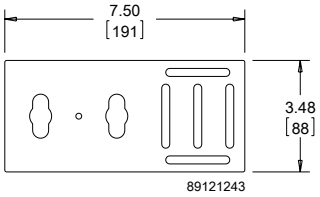
BULLETIN: DPS

Catalog Number	Description	Pkg. Qty.
DPCLIP	IEC C-13 Retaining Clip	10

PDU BRACKET KIT

The PDU Bracket Kit includes two mounting plates and hardware to effectively mount power strips within enclosures.

BULLETIN: DCY



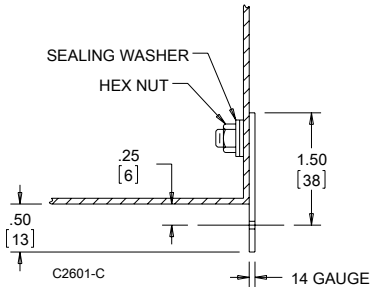
Catalog Number	Finish	Pkg. Qty
DPDU1	Painted black	2

MOUNTING BRACKET KITS (DMFK)

Mounting bracket kits are field-installable. Includes two 14-gauge, steel, external mounting brackets and fasteners. Sealing washers are provided with each kit to maintain Type 4 or 12 rating after installation. Steel mounting brackets are plated.

BULLETIN: A80

Catalog Number	Description	Fastener Thread Size
DMFK1	Mounting bracket kit	#10-32
DMFK2	Mounting bracket kit	#10-32



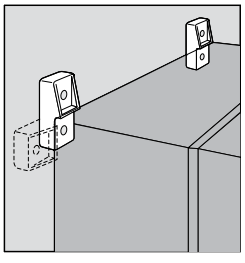
MOUNTING BRACKET KITS (CMFK, CMTGFT)

Mounting-Bracket Kits are field installable. Composite and stainless steel brackets are rated to Type 4X. Set of four (4) brackets can support 500 lb. (227 kg) maximum load. All hardware is included. Four brackets per kit.
Mounting brackets are required to maintain UL/CSA external mounting requirement.

BULLETIN: A80

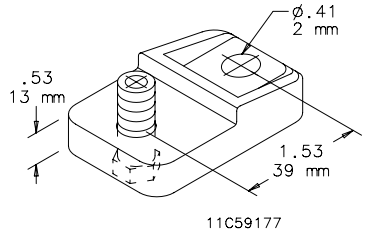
Catalog Number	Description	Fastener Thread Size
CMFK	Steel	#3/8-16
CMFKSS	Stainless Steel	#3/8-16
CMTGFT	Composite	#3/8-16

ULTRX MOUNTING BRACKET KIT



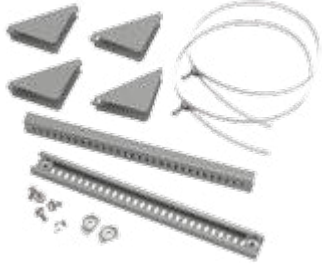
Kit is field-installable. Corrosion-resistant fiberglass material. Type 316 stainless steel mounting hardware is included. Four mounting brackets per kit.

BULLETIN: UX1Y



Catalog Number	Description	Kit Qty.
UUMF	Mounting Bracket Kit	4

POLE-MOUNT KIT



Use to mount CONCEPT, Networking and wall-mount enclosures to poles of various sizes and shapes. Simply attach the plated steel channel bar to the mounting holes at the back of the enclosure and wrap the stainless steel strap around the pole and through the bar. Kit includes two mounting channels, two straps suitable for 3-in. (76-mm) to 12-in. (305-mm) diameter pole and mounting hardware.

BULLETIN: CWY

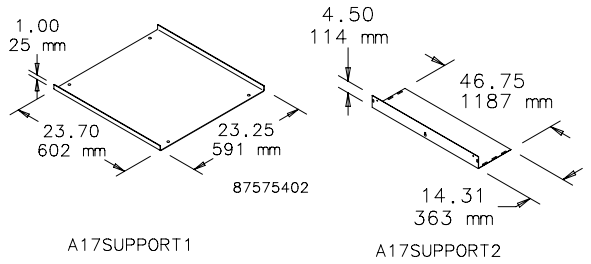
Catalog Number	Fits Enclosure (in.)	Fits Enclosure (mm)
CPMK12	when B = 12.00	when B = 305
CPMK16	when B = 16.00	when B = 406
CPMK20	when B = 20.00	when B = 508
CPMK24	when B = 24.00	when B = 610
CPMK30	when B = 30.00	when B = 762

BOTTOM SUPPORT KIT

Bolt-in bottom support plate with mountng hardware. Coated with ANSI 61 gray polyester powder paint. Required when installing Hoffman floor stands or casters on A17 fiberglass free-standing enclosures.

BULLETIN: A17Y

Catalog Number	Use With
A17SUPPORT1	A17 One-Door Fiberglass Enclosures
A17SUPPORT2	A17 Two-Door Fiberglass Enclosures



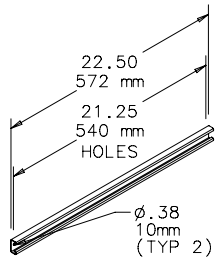
A17SUPPORT1 A17SUPPORT2

UNISTRUT MOUNTING KIT

Bolt-in internal unistrut channel (8 pieces) with mounting hardware. Required to install Hoffman unistrut-mounted free-stand panels and accessories in two-door A17 fiberglass enclosures. Hoffman A17SUPPORT2 plate must also be installed to secure unistrut.

BULLETIN: A17Y

Catalog Number	Use With
A17UNISTRUT	A17 Two-Door Fiberglass Enclosures



ENCLOSURE STABILIZERS

Helps prevent injury to workers by stabilizing floor-mount enclosures which are not bolted down. To install, slip the stabilizer under the floor stand and tighten two thumb screws. Made from .19-in. (5-mm) steel plate. Bright orange finish.

BULLETIN: A80

Catalog Number	Description
AENST	Two stabilizers

nVent | HOFFMAN

FLOOR STAND KIT

INDUSTRY STANDARDS

Product maintains UL/CSA Type 4, 4X (stainless steel only) and Type 12 when properly installed on Hoffman Type 4 or Type 12 enclosures.

APPLICATION

Kits are easily installed on most wall-mount Hoffman enclosures. Can also be used to elevate Hoffman free-stand enclosures.

To install, drill holes in the bottom of the enclosure and bolt the floor stands to the enclosure. It is not necessary to remove the wall-mount brackets from the enclosure.

SPECIFICATIONS

12 gauge steel floor stand has an ANSI 61 gray polyester powder finish over pretreated surfaces. Stainless steel floor stand is available in Type 316 and Type 304.

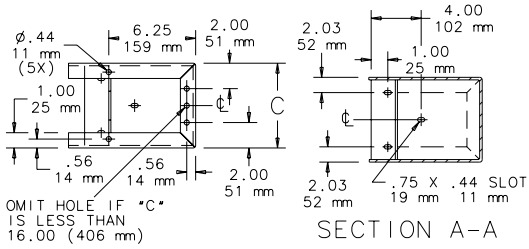
COMPONENTS

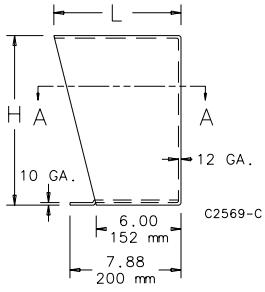
Each kit includes two stands. Two sets of floor stands are recommended for enclosures larger than double door free-stand enclosures.

ORDERING

Special heights, depths, materials and finishes can be provided on custom order. Consult factory for information.

BULLETIN: A4SY, A80





Catalog Number	Material	Height, H (in.)	Height, H (mm)	Width, C (in.)	Width, C (mm)	L (in.)	L (mm)
AFK0608	Steel	6.00	152	8.06	205	7.06	179
AFK0610	Steel	6.00	152	10.06	256	7.06	179
AFK0612	Steel	6.00	152	12.06	306	7.06	179
AFK0618	Steel	6.00	152	18.06	459	7.06	179
AFK1208	Steel	12.00	305	8.06	205	8.12	206
AFK1210	Steel	12.00	305	10.06	256	8.12	206
AFK1212	Steel	12.00	305	12.06	306	8.12	206
AFK1216	Steel	12.00	305	16.06	408	8.12	206
AFK1218	Steel	12.00	305	18.13	461	8.12	206
AFK1220	Steel	12.00	305	20.06	510	8.12	206
AFK1808	Steel	18.00	457	8.06	205	9.17	233
AFK1810	Steel	18.00	457	10.06	256	9.17	233
AFK1812	Steel	18.00	457	12.06	306	9.17	233
AFK1816	Steel	18.00	457	16.06	408	9.17	233
AFK2408	Steel	24.00	610	8.06	205	10.23	260
AFK2410	Steel	24.00	610	10.06	256	10.23	260
AFK2412	Steel	24.00	610	12.06	306	10.23	260
AFK2416	Steel	24.00	610	16.06	408	10.23	260
AFK0608SS	Stainless Steel, 304	6.00	152	8.06	205	9.09	231
AFK0610SS	Stainless Steel, 304	6.00	152	10.06	256	9.09	231
AFK0612SS	Stainless Steel, 304	6.00	152	12.06	306	9.09	231
AFK0618SS	Stainless Steel, 304	6.00	152	18.06	459	9.09	231
AFK0624SS	Stainless Steel, 304	6.00	152	24.06	611	9.09	231
AFK1208SS	Stainless Steel, 304	12.00	305	8.06	205	9.09	231
AFK1210SS	Stainless Steel, 304	12.00	305	10.06	256	9.09	231
AFK1212SS	Stainless Steel, 304	12.00	305	12.06	306	9.09	231
AFK1216SS	Stainless Steel, 304	12.00	305	16.06	408	9.09	231
AFK1218SS	Stainless Steel, 304	12.00	305	18.06	459	9.09	231
AFK1224SS	Stainless Steel, 304	12.00	305	24.06	611	9.09	231
AFK1808SS	Stainless Steel, 304	18.00	457	8.06	205	9.09	231
AFK1810SS	Stainless Steel, 304	18.00	457	10.06	256	9.09	231
AFK1812SS	Stainless Steel, 304	18.00	457	12.06	306	9.09	231
AFK1816SS	Stainless Steel, 304	18.00	457	16.06	408	9.09	231
AFK1818SS	Stainless Steel, 304	18.00	457	18.06	459	9.09	231
AFK1824SS	Stainless Steel, 304	18.00	457	24.06	611	9.09	231
AFK2408SS	Stainless Steel, 304	24.00	610	8.06	205	9.09	231
AFK2410SS	Stainless Steel, 304	24.00	610	10.06	256	9.09	231
AFK2412SS	Stainless Steel, 304	24.00	610	12.06	306	9.09	231

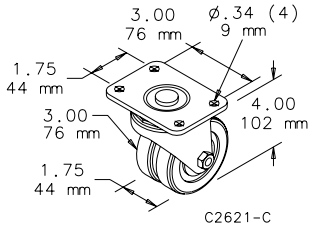
Catalog Number	Material	Height, H (in.)	Height, H (mm)	Width, C (in.)	Width, C (mm)	L (in.)	L (mm)
AFK2416SS	Stainless Steel, 304	24.00	610	16.06	408	9.09	231
AFK2418SS	Stainless Steel, 304	24.00	610	18.06	459	9.09	231
AFK2424SS	Stainless Steel, 334	24.00	610	24.06	611	9.09	231
AFK0608SS6	Stainless Steel, 316	6.00	152	8.06	205	9.09	231
AFK0610SS6	Stainless Steel, 316	6.00	152	10.06	256	9.09	231
AFK0612SS6	Stainless Steel, 316	6.00	152	12.06	306	9.09	231
AFK0618SS6	Stainless Steel, 316	6.00	152	18.06	459	9.09	231
AFK0624SS6	Stainless Steel, 316	6.00	152	24.06	611	9.09	231
AFK1208SS6	Stainless Steel, 316	12.00	305	8.06	205	9.09	231
AFK1210SS6	Stainless Steel, 316	12.00	305	10.06	256	9.09	231
AFK1212SS6	Stainless Steel, 316	12.00	305	12.06	306	9.09	231
AFK1216SS6	Stainless Steel, 316	12.00	305	16.06	408	9.09	231
AFK1218SS6	Stainless Steel, 316	12.00	305	18.06	459	9.09	231
AFK1224SS6	Stainless Steel, 316	12.00	305	24.06	611	9.09	231
AFK1808SS6	Stainless Steel, 316	18.00	457	8.06	205	9.09	231
AFK1810SS6	Stainless Steel, 316	18.00	457	10.06	256	9.09	231
AFK1812SS6	Stainless Steel, 316	18.00	457	12.06	306	9.09	231
AFK1816SS6	Stainless Steel, 316	18.00	457	16.06	408	9.09	231
AFK1818SS6	Stainless Steel, 316	18.00	457	18.06	459	9.09	231
AFK1824SS6	Stainless Steel, 316	18.00	457	24.06	611	9.09	231
AFK2408SS6	Stainless Steel, 316	24.00	610	8.06	205	9.09	231
AFK2410SS6	Stainless Steel, 316	24.00	610	10.06	256	9.09	231
AFK2412SS6	Stainless Steel, 316	24.00	610	12.06	306	9.09	231
AFK2416SS6	Stainless Steel, 316	24.00	610	16.06	408	9.09	231
AFK2418SS6	Stainless Steel, 316	24.00	610	18.06	459	9.09	231
AFK2424SS6	Stainless Steel, 316	24.00	610	24.06	611	9.09	231

PLATE CASTERS

Plate casters can be used on any enclosure to provide mobility. Casters have dual hard rubber wheels. Each caster has a 350-lb. (159-kg) load rating. Caster plates are heavy gauge steel with a zinc plated finish. Casters have ball bearing swivels. A caster kit includes 4 swivel casters and necessary mounting hardware. Catalog number DMCKC caster kit also includes four caster skirts which partially conceal caster plate and mounting hardware. Caster skirts are painted medium gray.

BULLETIN: D10

Catalog Number	Description
DMCKC	Set of four casters, four mounting plates and hardware



CASTER KIT

A set of four casters (two locking, two non-locking) that mount directly to the bottom of a PROLINE frame, 0-mm or 100-mm Solid Base or a Console. **(Do not use on plinth bases.)** Casters elevate the enclosure 110 mm (4.33) when installed. Caster frames are plated steel with ball-bearing pivots. Caster wheels are made of a black polyamide material. Kit includes M12 mounting hardware. Order separately.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring.

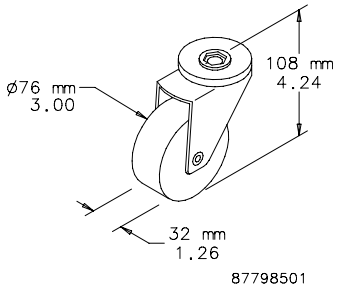
NOTE: Avoid large cracks, floor displacement, seams, gravel and any other obstructions.

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

BULLETIN: P20

Catalog Number	Description
PC1M12	Set of 4 Casters

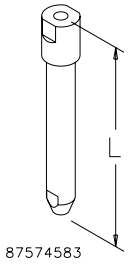


SANITARY LEG KITS

Sanitary Leg Kits provide space between the enclosure and the floor for better washdown accessibility. Available with fixed or independently adjustable legs. Adjustable leg shown. Four legs per kit. Maintains NEMA Type 4X rating when properly installed on a Hoffman Type 4X enclosure.

BULLETIN: WSY

Catalog Number	Description	Size L (in.)	Size L (mm)
WSASLKSS	Adjustable Sanitary Leg Kit	11.50 -12.50	292 -318
WSFSLKSS	Fixed Sanitary Leg Kit	12.00	305



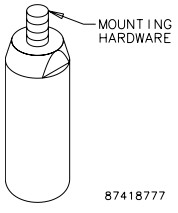
STAINLESS STEEL LEGS

Legs mount to the bottom of a solid base to elevate the enclosure 4 in. (100 mm) from the floor. The legs are made of Type 304 stainless steel and are appropriate for hose-down applications. Mounting hardware is included.

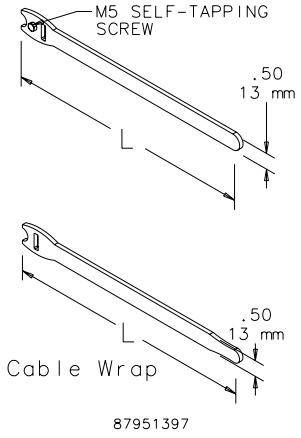
NOTE: These legs will not fit on the PROLINE G2 Fully-Sealed Plinth Base.

BULLETIN: P20S

Catalog Number	Description
PLEGSS	(4) Stainless Steel Legs



VELCRO® CABLE WRAP



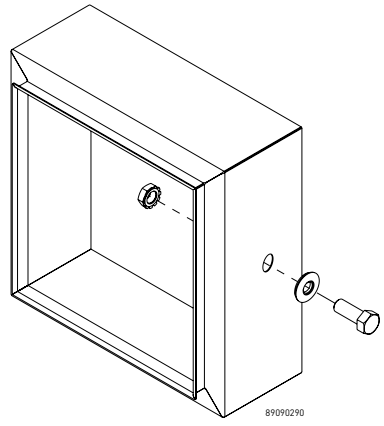
Securely holds cable to cable manager and unfastens easily for cable maintenance. VELCRO® is 0.5-in. (12.7-mm) wide. Available in 8- and 12-in. (203- and 305-mm) lengths in both screw fastener and wrap styles. M5 self-tapping screw is used on Net Series or PROLINE frames.

VELCRO is a trademark of Velcro Industries B.V.

BULLETIN: DACCY

Catalog Number	Description	L (in.)	L (mm)	Color	Pkg. Qty.
ECWTD8B	Screw fastener style. Includes M5 mounting screw.	8.00	203	Black	10
ECWTD12B	Screw fastener style. Includes M5 mounting screw.	12.00	305	Black	10
ECW8B	Wrap style	8.00	203	Black	10
ECW8R	Wrap style	8.00	203	Red	10
ECW8BL	Wrap style	8.00	203	Blue	10
ECW8Y	Wrap style	8.00	203	Yellow	10
ECW12B	Wrap style	12.00	305	Black	10
ECW12R	Wrap style	12.00	305	Red	10
ECW12BL	Wrap style	12.00	305	Blue	10
ECW12Y	Wrap style	12.00	305	Yellow	10

UL RECOGNIZED HARDWARE KITS



APPLICATION

These UL-recognized mountings kits are designed to maintain the overall UL Type rating of the enclosure when component mounting holes penetrate the exterior of the enclosure. These hardware kits are conveniently offered in three common fastener sizes to meet various applications.

FEATURES

- Each kit provides the capability of sealing 10 hole penetrations
- Kits are offered in 10-32, 1/4-20 and 3/8-16 fastener sizes
- Stainless steel fasteners
- Kit contains screws, sealing washers and locking nuts
- Kit is UL-recognized as a means to maintain UL enclosure cabinet rating up to Type 4X

SPECIFICATIONS

- Fasteners are made of stainless steel
- Sealing washer has integral rubber sealing and stainless steel washer

FINISH

Brushed, bright stainless steel

BULLETIN: A80HS

INDUSTRY STANDARDS

UL 508A Component Recognized; File No. E61997

CSA File No. 42186: Type 4, 4X, 12, 13

Cabinet maintains up to UL Type 4X when included hardware is used per instructions.

Standard Product

Catalog Number	Fastener Size (Nominal)	Fastener Length (Dia. Inches)	Drill/Hole Size (Inches)
AHK10324X	10-32	5/8	7/32
AHK14204X	1/4-20	1	9/32
AHK38164X	3/8-16	1	13/32

TAMPER-RESISTANT SCREWS

Designed for field installation on screw cover pull boxes and screw cover Type 3R enclosures (size 16.00 x 12.00 x 6.00 in. or smaller), consolets, pushbutton enclosures and Type 12 screw cover wiring trough. Each package consists of four Type 18-8 stainless steel screws and four nylon captivating washers. Driver bit must be ordered separately (functions in any handle or socket capable of holding 1/4-in. hex insert bits).

BULLETIN: A80

Catalog Number	Description	Pkg. Qty.
ATRSK	Tamper-resistant screw (10-32)	4
ATRSDVR	Driver bit	1

SCREW PACKAGES

Screw Packages are for mounting rack panels and equipment to rack angles.

BULLETIN: A80, DACCY

Catalog Number	Color	Description	Pkg. Qty.
ES1224	Silver	12-24 x 5/8 in. combo head	20
ES1224250	Silver	12-24 x 5/8 in. combo head	250
ES1224B	Black	12-24 x 5/8in. combo head	20
ES1224B250	Black	12-24 x 5/8 in. combo head	250
ASM5	Silver	M5 x 20 mm Combo Head	20
ASM6	Silver	M6 x 16 mm combo head	20
ASM5T	Silver	M5 x 12 mm thread-forming Phillips hex head screws	20
ASM6250	Silver	M6 x 16 mm combo head	250
AS1032	Silver	10-32 x 5/8 in. combo head	20
AS1032250	Silver	10-32 x 5/8 in. combo head	250
AS1032B	Black	10-32 x 5/8 in. combo head	20

Use ASM5T on PROLINE frame or Net Series extruded holes.

CAGE NUT PACKAGE

Cage Nut Packages are for use with square-hole rack angles. Cage nuts are plated steel.

BULLETIN: DACCY

Catalog Number	Color	Description	Pkg. Qty.
PM5CN	Silver	M5 cage nut	20
PM6CN	Silver	M6 cage nut	20
PM6CN250	Silver	M6 cage nut	250
P1032CN	Silver	10-32 cage nut	20
P1032CN250	Silver	10-32 cage nut	250
P1224CN	Silver	12-24 cage nut	20
P1224CN250	Silver	12-24 cage nut	250

CLIP NUT PACKAGE

Twenty plated clip nuts fit all rack-mounting angles with .281-in. (7-mm) diameter holes (through-hole type).

BULLETIN: A80

Catalog Number	Description	Pkg. Qty.	Fits
AN1032	Clip Nut 10-32	20	.281-diameter mounting holes
ANM5	Clip Nut M5 (Metric)	20	.281-diameter mounting holes

CLAMPING NUT PACKAGE

Twenty plated clamping nuts with top-grip nut retainers. Clamping nuts fit into mounting channels that are used on inside walls of Hoffman enclosures. Clamping nuts are included with all Hoffman accessories that attach to mounting channels. These clamping nuts can be used for mounting other equipment (brackets, etc.) to the enclosure walls.

BULLETIN: A80

Catalog Number	Description	Thread
APS1032CN	Package of 20	10-32
APS1420CN	Package of 20	1/4-20
APS51618CN	Package of 20	5/16-18

PROLINE FASTENER PACKAGES

Use to fasten components to the grid system. PGF Packages include 20 front-loading clip nuts (M6) and 20 combination-drive washer-head bolts (M6).
Grounding Package is used with the rectangular holes in the PROLINE frame to provide electrical continuity between the frame and the grid system. ASM5T Package is used with PROLINE frames having round holes. Package includes 20 M5 self-tapping screws.

BULLETIN: DACCY

Catalog Number	Description	Use in	Pkg. Qty.
ASM5T	M5 x 12 mm thread-forming Phillips hex head screws	Round holes	20
PGFM6	Standard Package - M6 cage nuts and bolts	Rectangular holes	20
PGFGM6	Grounding Package - M6 grounding cage nuts and bolts	Tapped holes	20

FASTENER PACKAGE

Kit includes a set of 8 cage nuts and screws. Used to mount 19-in. rack equipment to 9-mm square holes in uprights. Cage nuts are metric (M6). Screws are pan head Phillips metric M6x16.

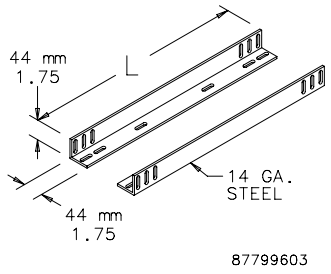
BULLETIN: DACCY

Catalog Number	Color	Description
ECNSM6	Silver	M6 x 16 pan head posidrive screws. M6 cage nuts.

GUIDES

14 gauge steel chassis guides mount between two pairs of rack-mounting angles that have accessory mounting legs. Guides and mounting hardware are plated. (XSFG mount on one pair of Type RA rack-mounting angles that have accessory mounting legs.)

BULLETIN: P20

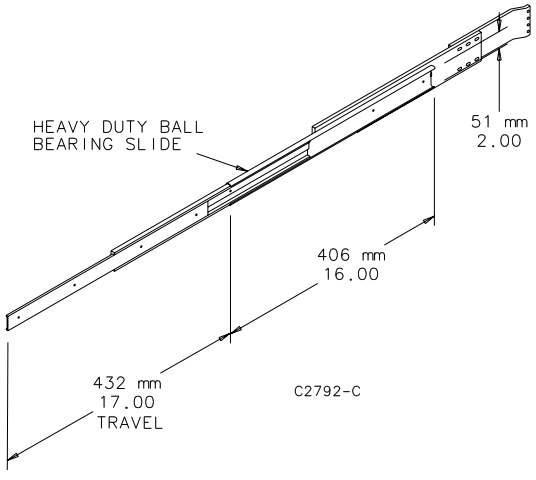


Catalog Number	Length in./mm	Rack Units
AG1U5	15.00 381.0	1
AG1U6	21.00 533.4	1
AG1U8	26.00 660.4	1

SLIDES

Heavy-duty ball bearing, plated, three-section Slides are 16-in. (406-mm) long and allow 17-in. (423-mm) extension. They are attached to supports that mount between two pairs of rack-mounting angles that have accessory mounting legs. Mounting hardware is furnished. Equipment 16.75-in. (425-mm) wide can be mounted between Slide assemblies installed on 19-in. rack angles. A pair of Slides can support up to 160 lb. (73 kg) at the extended position when load is distributed evenly along the 16-in. (406-mm) Slide length. Requires Rack Angle Adapter Bracket to fit PROLINE. *Needs to be used with the Rack Angle Adapter Bracket (PBRAA, PBRAA19 or PBRAA24).*

BULLETIN: P20



Catalog Number	Quantity
A16SL2U	2

FAN SPEED CONTROL, RACK-MOUNT

APPLICATION

These Hoffman Fan Speed Controls provide a means to optimize airflow in a cabinet or rack, balancing air volume requirements with noise level and power use. The AFANTSC Panel Mount Fan Speed Control adjusts fan speed automatically based on remote temperature sensor inputs. The A19FANSC 19-in. Rack-Mount Fan Speed Control allows manual control over fan speed. Both units are designed to work with Hoffman 3-, 6- and 10-in. Compact Cooling Fans and with 19-in. fan trays, as well as door- and top-mount fan trays. These fan speed controls are ideal for offices, classrooms and other acoustic noise-sensitive areas.

SPECIFICATIONS

- Continuously variable fan speed control knob with minimum speed adjustment
- Uses 1 RU rack space
- Steel construction
- Two NEMA 5-15R outlets provide power to fan
- Six-foot (1.83-m) power cord plugs into standard 120V 60 Hz outlet

INDUSTRY STANDARDS

UL 508A Listed; File No. E249700
cUL Listed per CSA C22.2 No. 14; File No. E249700

FINISH

AFANTSC: Light-gray polycarbonate control housing
A19FANSC: RAL 9005 black polyester powder paint

BULLETIN: DTHRM

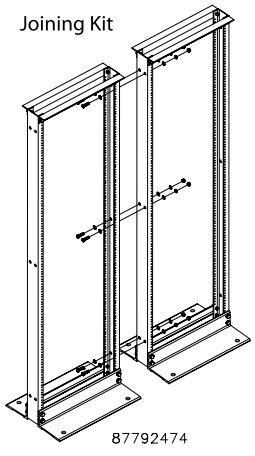
Catalog Number	Description	Application	Voltage and Frequency	Current Draw	Temperature Settings (C)	Temperature Settings (F)
A19FANSC	19-in. Rack-Mount Fan Speed Control	Fan speed adjusted manually	120V, 60 Hz	4A max.	Continously variable	Continously variable

JOINING KIT

Hardware kit to join two open-frame racks. Made of steel with plated finish.

BULLETIN: DOFRY

Catalog Number	Description
EJ2DR	Joining Kit, Side-to-Side

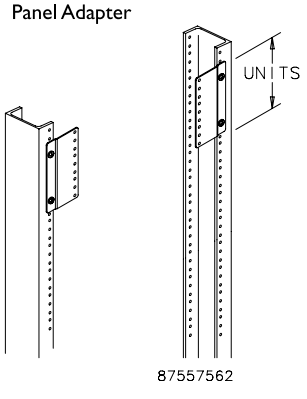


PANEL ADAPTER

Adapts 23-in. open frame rack to accept 19-in. equipment. Offset provides flush mounting surface. Steel with plated finish. Furnished in pairs.

BULLETIN: DACCY

Catalog Number	Rack Units
ERB1U2319	1
ERB3U2319	3
ERB5U2319	5



RACK UNIT LABEL

Self-adhesive clear Mylar label with white numbers enables numbering along sides of open frame racks or rack angles. Numbers spaced one rack unit apart. Can be used for bottom-up or top-down numbering of rack units to simplify equipment installation. Each label provided in two pieces (numbers 1-29 and 30-58) for easier installation. Two labels per catalog number. Label shown mounted on rack angle.
Mylar is a registered trademark of DuPont Tejin Films.

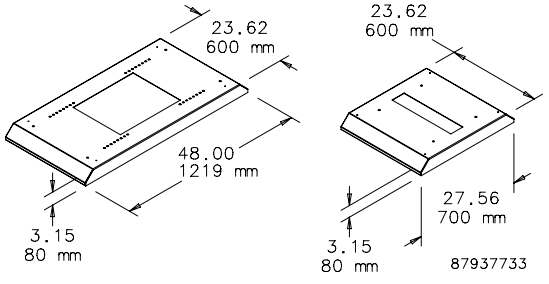
BULLETIN: DOFRY

Catalog Number	Installed Length in./mm	Width in./mm
ARULABEL	101.50 2578	.50 13

MOBILE BASE FOR OPEN FRAME RACKS

Models for 19-in. 2- and 4-Post Open Frame Racks. Includes four non-locking casters. Will also accept standard levelers. Order catalog number PMBLM12 separately. The rack mounts on the base to provide greater stability with mobility. Made of steel with RAL 9005 black polyester powder paint finish. Mounting hardware included.

BULLETIN: DOFRY



Catalog Number	Fits
A19MB600	2-post open-frame racks
A19MB1000	4-post open-frame racks with depth adjustable between 17.7- and 29.5-in. (450- and 750-mm) in 0.98-in. (25-mm) increments

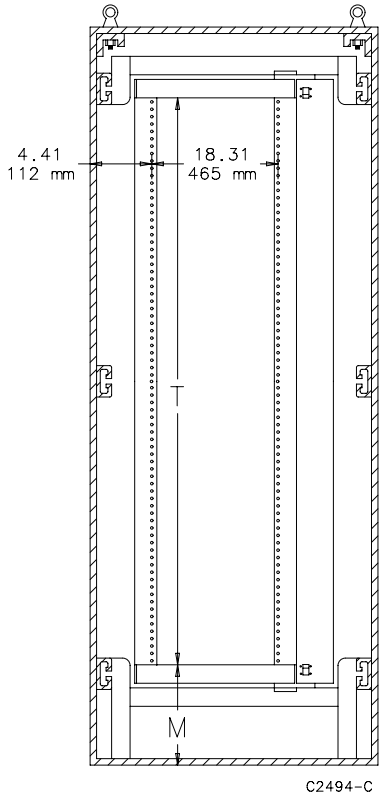
SWING-OUT RACK MOUNTING FRAMES

Full-length 10 gauge swing-out rack mounting frames are available for mounting 19-in. (483-mm) rack mounting equipment. The frame pivots within the enclosure to allow access to the back of the mounted equipment. The frames can be installed in 72.00-in. (1829-mm) and 90.00-in. (2286-mm) high enclosures that are 30.00-in. (762-mm) or 36.00-in. (914-mm) wide. They can be installed in 60.00-in. (1524-mm) or 72.00-in. (1829-mm) wide enclosures if a center panel support is used. Mounting holes are tapped with #10-32 threads spaced per EIA standard. The design features smooth operation and secure positioning anywhere along the horizontal mounting channels. Frame swings from the left side.
All frames are white and furnished with plated mounting hardware.

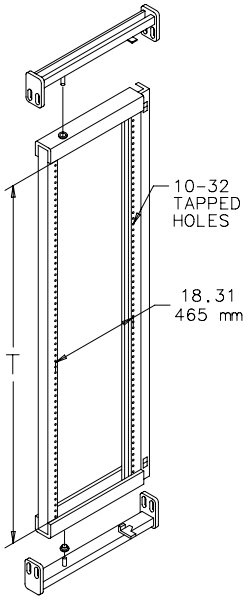
BULLETIN: A80

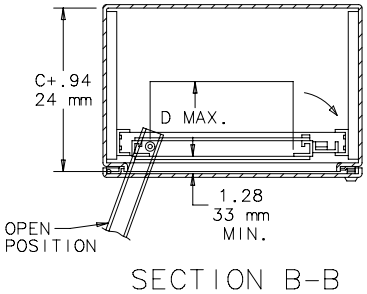
Catalog Number	Fits Enclosure Size A x B in./mm	T in./mm	M in./mm	D max in./mm	Number of Units
A7230SOF19	72.06 x 30.06 1830 x 764	57.88 1470	9.09 231	16.25 413	33
A7236SOF19	72.06 x 36.06 1830 x 916	57.88 1470	9.09 231	24.25 616	33
A9036SOF19	90.06 x 36.06 2287 x 916	75.28 1915	9.34 237	24.25 616	43

One unit equals 1.75 inches (44mm).

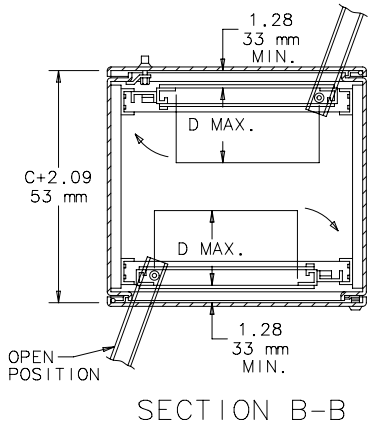


SECTION A–A





SECTION B–B

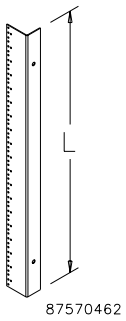


SECTION B–B

19-IN. AND 23-IN. RACK ANGLES

Made of 14 gauge steel with square holes or 12 gauge steel with 10-32 tapped holes. Provides 19- or 23-in. rack spacing depending on frame width. Finished with flat black RAL 9005 polyester powder paint or plated. Furnished in pairs.

BULLETIN: DNCY



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Catalog Number	Rack Spacing	Hole Type	Finish	Use With	Fits Frame Height	Fits Frame Width	Rack Units	L (mm)	L (in.)
ERA197THLN	19 in.	Square	Black	Networking Cabinet - SOHO	700mm	600mm	11	492	19.38
ERA197TPLN	19 in.	Tapped	Black	Networking Cabinet - SOHO	700mm	600mm	11	492	19.38
ERA1921TPL	19 in.	Tapped	Black	Seismic Cabinet	2100mm	700mm	45	2003	78.87
ERA192321TPL	19 and 23 in.	Tapped	Black	Seismic Cabinet	2100mm	800mm	45	2003	78.87
ERA1910TPL	19 in.	Tapped	Black	Network PC Cabinet	Bottom Section	—	19	848	33.37

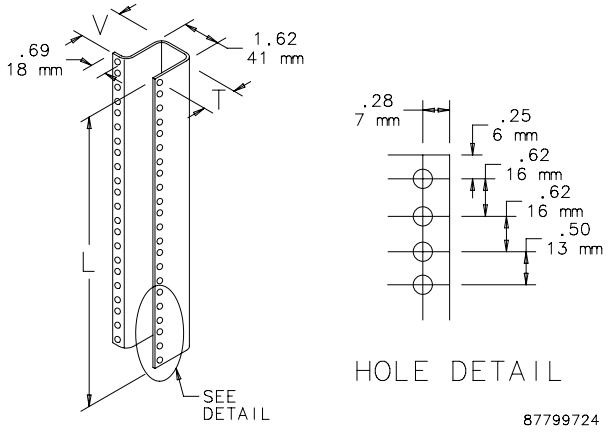
RACK MOUNTING ANGLES - U STYLE (TYPE RA)

For Free-Stand Enclosures, Type 12 (Bulletin A30), Free-Stand Enclosures, Type 4 (Bulletin A4L) and One-Door Free-Stand Fiberglass Enclosures, Type 4X (Bulletin A17).
Pairs of full-length rack mounting angles are available for mounting 19-in. (483-mm) and 24-in. (610-mm) rack-mounted equipment.
Type RA rack mounting angles are 14 gauge steel with mounting holes .281 in. (7 mm) in diameter and spaced per EIA standard RS-310-D universal spacing. Use clip nut package AN1032 to provide tapped holes at desired locations.
Angles and mounting hardware are plated. All mounting hardware is furnished. Includes two full-length angles.

BULLETIN: A80

Catalog Number	Fits Enclosure A x B in./mm	K in./mm	L in./mm	M in./mm	T in./mm	V in./mm	For Rack Size in./mm	Number of Units
A60RA19TH	60.00 x 24.00	3.78	49.00	7.78	1.95	1.89	19.00	28
	60 x 24	96	1245	198	50	48	483	
A72RA19TH	72.00 x 24.00	3.66	61.25	7.66	1.95	1.89	19.00	35
	1829 x 610	93	1556	195	50	48	483	
A72RA24TH	72.00 x 30.00	3.66	61.25	7.66	2.45	2.39	24.00	35
	1829 x 762	93	1556	195	62	61	610	
A90RA19TH	90.00 x 24.00	3.91	78.75	7.91	1.95	1.89	19.00	45
	2286 x 610	99	2000	201	50	48	483	

One unit equals 1.75 inches (44 mm).



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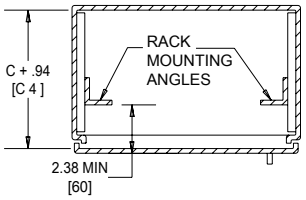
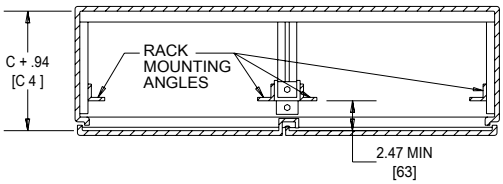
Rack Mounting Angles Installed in Enclosures



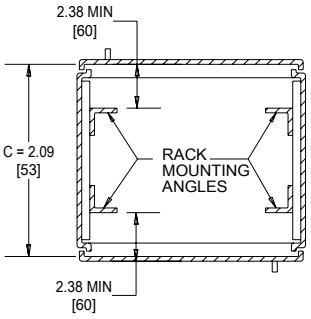
SECTION B-B

Showing rack mounting angles installed in single-door enclosure



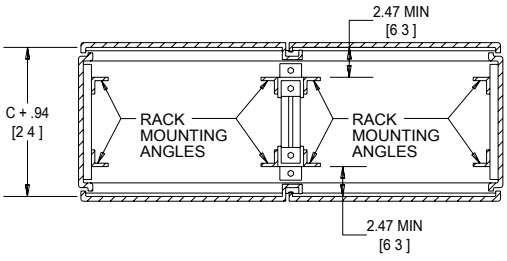
SECTION B-B

Showing two sets of rack mounting angles and center panel supports mounted in two-door enclosure



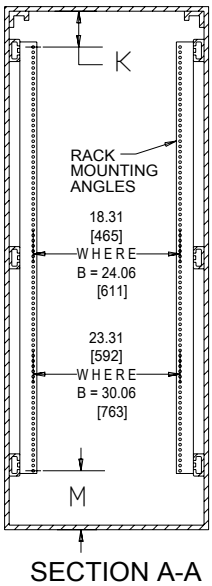
SECTION B-B

Showing two sets of rack mounting angles mounted in single-door, dual-access enclosure

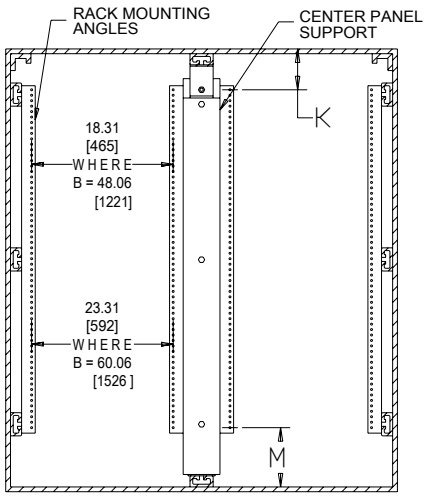


SECTION B-B

Showing four sets of rack mounting angles and two center panel supports mounted in two-door, dual-access enclosure



SECTION A-A



SECTION A-A

C2497-C

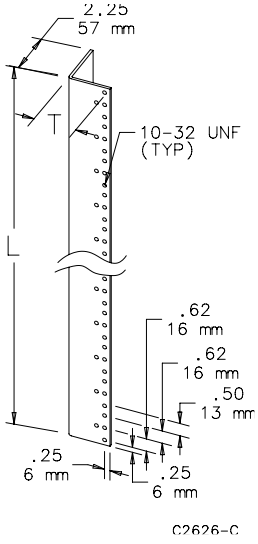
RACK MOUNTING ANGLES - L STYLE (TYPE RP)

For Free-Stand Enclosures, Type 12 (Bulletin A30), Free-Stand Enclosures, Type 4 (Bulleting A4L) and One-Door Free-Stand Fiberglass Enclosures, Type 4X (Bulletin A17). Pairs of full-length or half-length rack mounting angles are available for mounting 19-in. (483-mm) and 24-in. (610-mm) rack-mounted equipment. Type RP rack mounting angles are 10 gauge steel with mounting holes tapped #10-32 thread and spaced per EIA standard RS-310-D universal spacing. Angles and mounting hardware are plated. All mounting hardware is furnished.

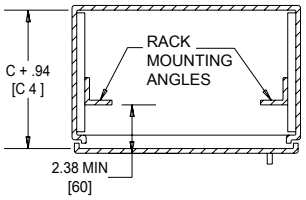
BULLETIN: A80

Catalog Number	Description	Fits Enclosure A x B in./mm	For Rack Size in./mm	K in./mm	L in./mm	M in./mm	T in./mm	Number of Units
A60RP24F5	Two full-length angles	60.00 x 24.00 1524 x 610	19.00 483	3.78 96	49.00 1245	7.78 198	1.94 49	28
A60RP24F6	Two half-length angles	60.00 x 24.00 1524 x 610	19.00 483	3.59 91	26.25 667	7.59 193	1.94 49	15
A72RP24F5	Two full-length angles	72.00 x 24.00 1829 x 610	19.00 483	3.66 93	61.25 1556	7.66 195	1.94 49	35
A72RP24F6	Two half-length angles	72.00 x 24.00 1829 x 610	19.00 483	3.97 1.01	31.50 800	7.97 202	1.94 49	18
A72RP30F5	Two full-length angles	72.00 x 30.00 1829 x 762	24.00 610	3.66 93	61.25 1556	7.66 195	2.44 62	35
A72RP30F6	Two half-length angles	72.00 x 30.00 1829 x 762	24.00 610	3.97 101	31.50 800	7.97 202	2.44 62	18
A90RP24F5	Two full-length angles	90.00 x 24.00 2286 x 610	19.00 483	3.91 99	78.75 2000	7.91 201	1.94 49	45
A90RP24F6	Two half-length angles	90.00 x 24.00 2286 x 610	19.00 483	4.09 104	40.25 1022	8.09 205	1.94 49	23

One unit equals 1.75 inches (44 mm).

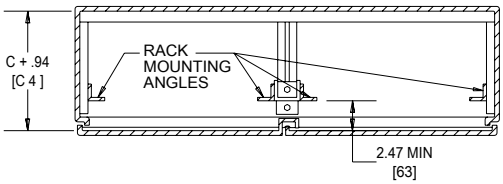


Rack Mounting Angles Installed in Enclosures



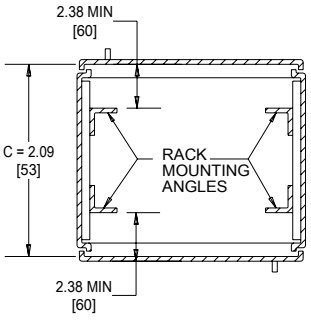
SECTION B-B

Showing rack mounting angles installed in single-door enclosure



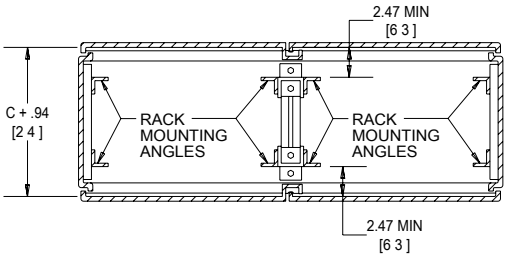
SECTION B-B

Showing two sets of rack mounting angles and center panel supports mounted in two-door enclosure



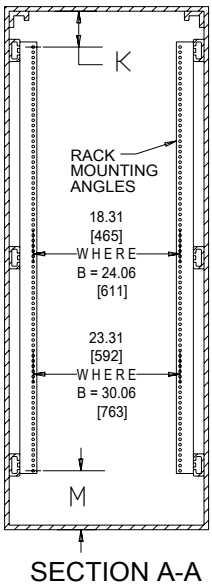
SECTION B-B

Showing two sets of rack mounting angles mounted in single-door, dual-access enclosure

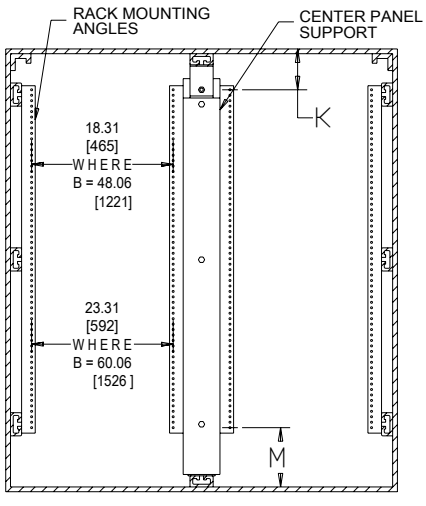


SECTION B-B

Showing four sets of rack mounting angles and two center panel supports mounted in two-door, dual-access enclosure



SECTION A-A



SECTION A-A

C2497-C

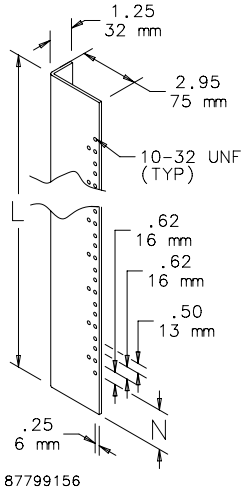
RACK MOUNTING ANGLE KIT - L STYLE

Designed for mounting 19-in. (483-mm) rack-mount equipment in standard 24-in. (610-mm) wide one-door, wall-mount Type 4 and 12 enclosures. Heavy 10 gauge steel angles are tapped with #10-32 threads spaced to meet EIA RS-310-D. To install, drill small holes in the sides of the enclosure and bolt angles in place.
All mounting hardware and instructions are furnished. Sealing washers also are provided to maintain original enclosure standards rating after installation. Rack angles are zinc-plated. External screws are stainless steel. Special sizes, materials and finishes are available on custom order.

BULLETIN: A80

Catalog Number	Description	For Enclosure Size A x B in./mm	L in./mm	N in./mm	Number of Units
ARAK24	Two Angles	24.00 x 24.00 610 x 610	23.75 603	1.62 41	12
ARAK30	Two Angles	30.00 x 24.00 762 x 610	29.75 756	2.00 51	15
ARAK36	Two Angles	36.00 x 24.00 914 x 610	35.75 908	1.50 38	19

One unit equals 1.75 inches (44 mm).



INTERSAFE DATA INTERFACE PORTS, TYPE 4/4X/12

INDUSTRY STANDARDS

Mild Steel Painted Ports

UL 508A Component Recognized; Type 4, 12; File No. E61997
cUL Component Recognized per CSA C22.2 No 94; Type 4, 12; File No. E61997

NEMA/EEMAC Type 4, 12
IEC 60529, IP66

Stainless Steel Ports

UL 508A Component Recognized; Type 4, 4X, 12; File No. E61997
cUL Component Recognized per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

NEMA/EEMAC Type 4, 4X, 12
IEC 60529, IP66

Clear-Cover (polycarbonate) Ports

UL 508A Component Recognized; Type 4X, 12; File No. E61997
cUL Component Recognized per CSA C22.2 No 94; Type 4, 4X, 12; File No. E61997

IEC 60529, IP66

APPLICATION

INTERSAFE Data Interface Ports are mounted on an enclosure to allow programming access to devices inside without opening the enclosure door.

FEATURES

- Ready to use
- Frame and door assembly with aluminum back plate included with all models; 120 VAC receptacles and programming connectors are mounted to the plate in 42 standard configurations
- All standard configurations include a GFCI or standard duplex receptacle with a 5-A circuit breaker for added safety
- Door gasket (between the door and plate assemblies) and plate gasket (between the plate assembly and the enclosure) together provide a tight seal
- Template provided for accurate enclosure cutout dimensions
- Quarter-turn latch with screwdriver slot and padlock hasp on all steel and stainless steel door models for convenience and security
- Quarter-turn latch with screwdriver slot on polycarbonate models
- Disk drive enclosure provides access to one or two customer-supplied disk drives without opening the cabinet
- Modifications and customization available to accommodate a wide variety of additional connectors

SPECIFICATIONS

- Door assembly and frame manufactured from 16 gauge steel or stainless steel
- Clear-cover models have a molded polycarbonate door
- Steel and stainless steel doors are welded and ground
- Back plate is aluminum

FINISH

- RAL 9005 black fine-textured polyester powder coating—mild steel door assemblies
- Brushed finish—stainless steel door assemblies
- Brushed finish—aluminum back plates

MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

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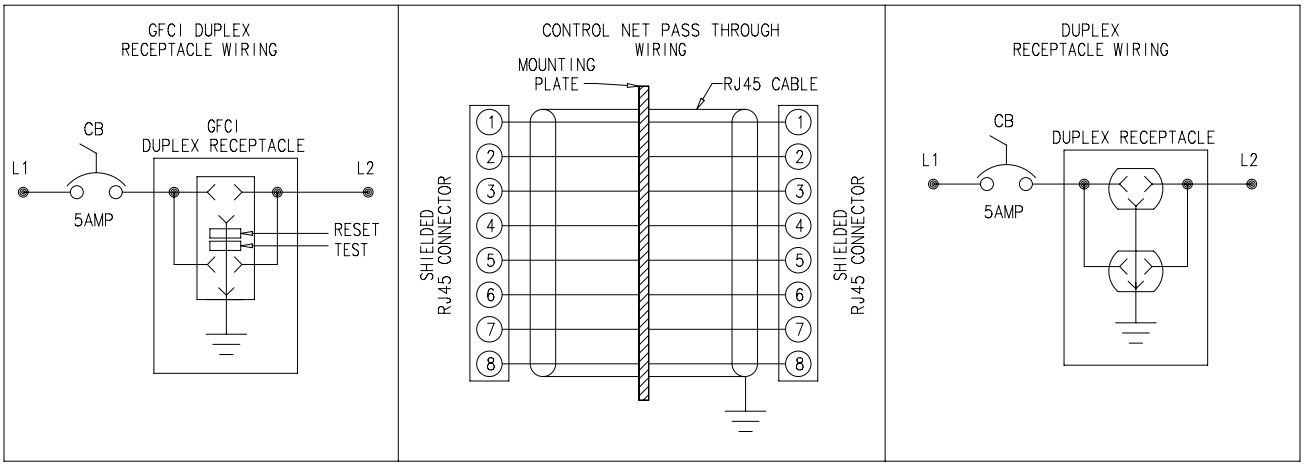
INTERSAFE DATA PORTS FOR CONTROLNET PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows Front front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5CN	Steel	- 120 VAC GFCI receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley
HGF5CNSS	Stainless Steel	- 120 VAC GFCI receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley
HGF5CNCC	Composite	- 120 VAC GFCI receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley
HDP5CN	Steel	- 120 VAC duplex receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley
HDP5CNSS	Stainless Steel	- 120 VAC duplex receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley
HDP5CNCC	Composite	- 120 VAC duplex receptacle - Shielded RJ45 - 5-amp circuit breaker	- Shielded RJ45 - 10-ft. shielded cable with male RJ45	—	Allen-Bradley



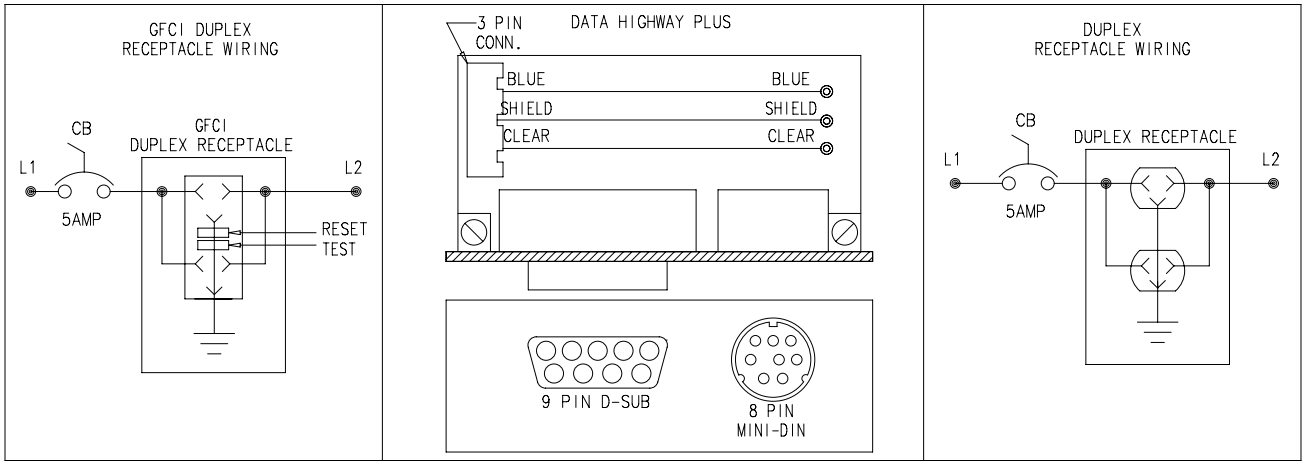
87929485

INTERSAFE DATA INTERFACE PORTS FOR DATA HIGHWAY PLUS PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF58MDH	Steel	- 120 VAC GFCI receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley
HGF58MDHSS	Stainless Steel	- 120 VAC GFCI receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley
HGF58MDHCC	Composite	- 120 VAC GFCI receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley
HDP58MDH	Steel	- 120 VAC duplex receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley
HDP58MDHSS	Stainless Steel	- 120 VAC duplex receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley
HDP58MDHCC	Composite	- 120 VAC duplex receptacle - 8-pin mini DIN - DB9F - 5-amp circuit breaker	Female 8-pin mini DIN	DB9F terminal block	Allen-Bradley



87929486

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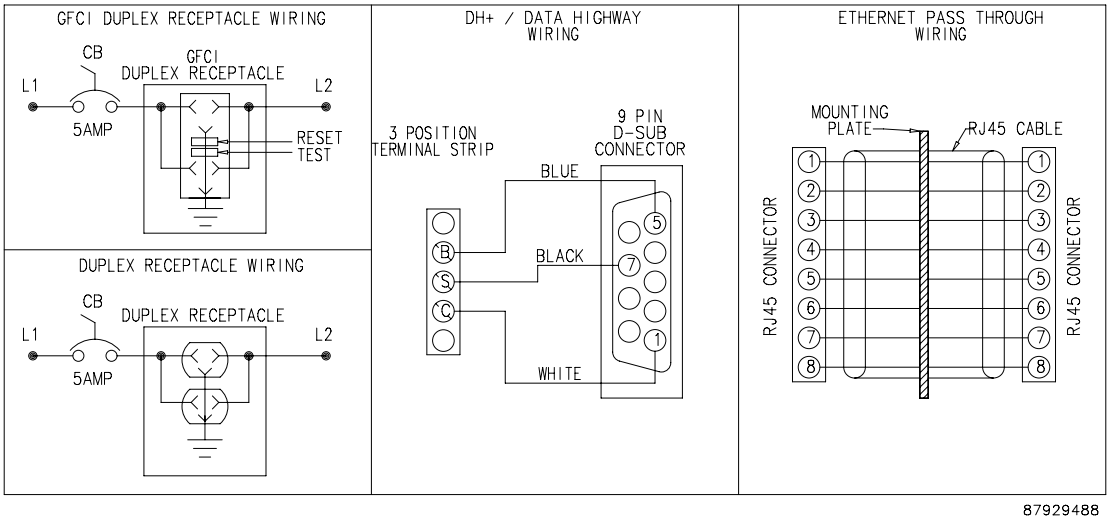
INTERSAFE DATA INTERFACE PORTS FOR DH+, MODBUS PLUS, ETHERNET PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5ETHDH	Steel	- 120 VAC GFCI receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals
HGF5ETHDHSS	Stainless Steel	- 120 VAC GFCI receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals
HGF5ETHDHCC	Composite	- 120 VAC GFCI receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals
HDP5ETHDH	Steel	- 120 VAC duplex receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals
HDP5ETHDHSS	Stainless Steel	- 120 VAC duplex receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals
HDP5ETHDHCC	Composite	- 120 VAC duplex receptacle - RJ45 - DB9F - 5-amp circuit breaker	DB9F terminal block	- RJ45 - 10-ft. cable with male RJ45	Allen-Bradley Group Schneider Computer peripherals



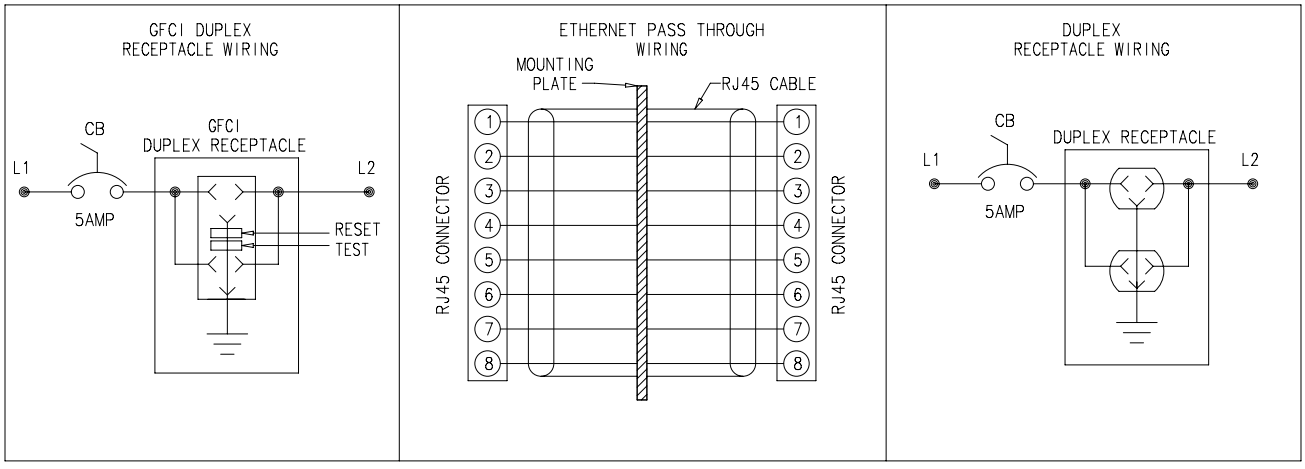
87929488

INTERSAFE DATA INTERFACE PORTS FOR ETHERNET PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5ETHETH	Steel	- 120 VAC GFCI receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals
HGF5ETHETHSS	Stainless Steel	- 120 VAC GFCI receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals
HGF5ETHETHCC	Composite	- 120 VAC GFCI receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals
HDP5ETHETH	Steel	- 120 VAC duplex receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals
HDP5ETHETHSS	Stainless Steel	- 120 VAC duplex receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals
HDP5ETHETHCC	Composite	- 120 VAC duplex receptacle - RJ45 - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	- RJ45 - 10-ft. cable	Computer peripherals



87929489

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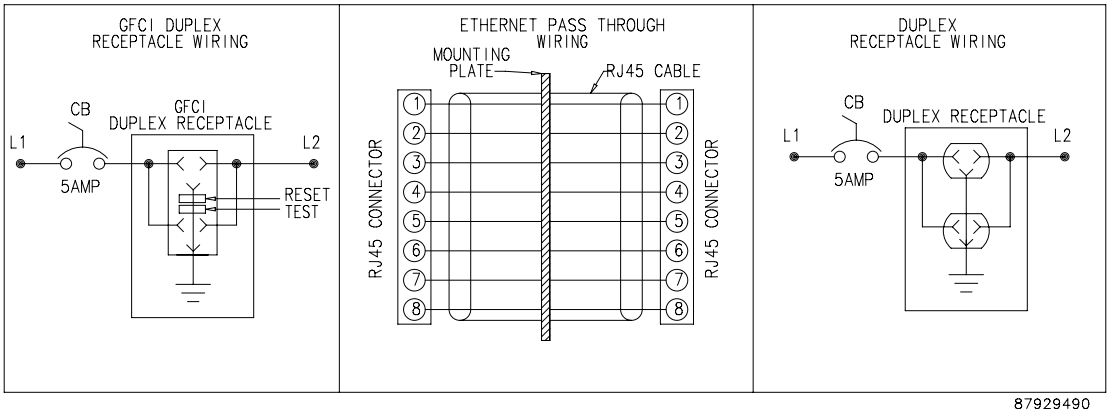
INTERSAFE DATA INTERFACE PORTS FOR ETHERNET/PROFINET PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Configuration	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5ETH	Steel	- 120 VAC GFCI receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals
HGF5ETHSS	Stainless Steel	- 120 VAC GFCI receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals
HGF5ETHCC	Composite	- 120 VAC GFCI receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals
HDP5ETH	Steel	- 120 VAC duplex receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals
HDP5ETHSS	Stainless Steel	- 120 VAC duplex receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals
HDP5ETHCC	Composite	- 120 VAC duplex receptacle - RJ45 - 5-amp circuit breaker	- RJ45 - 10-ft. cable	---	Allen-Bradley GE Fanuc Groupe Schneider Siemens Computer peripherals



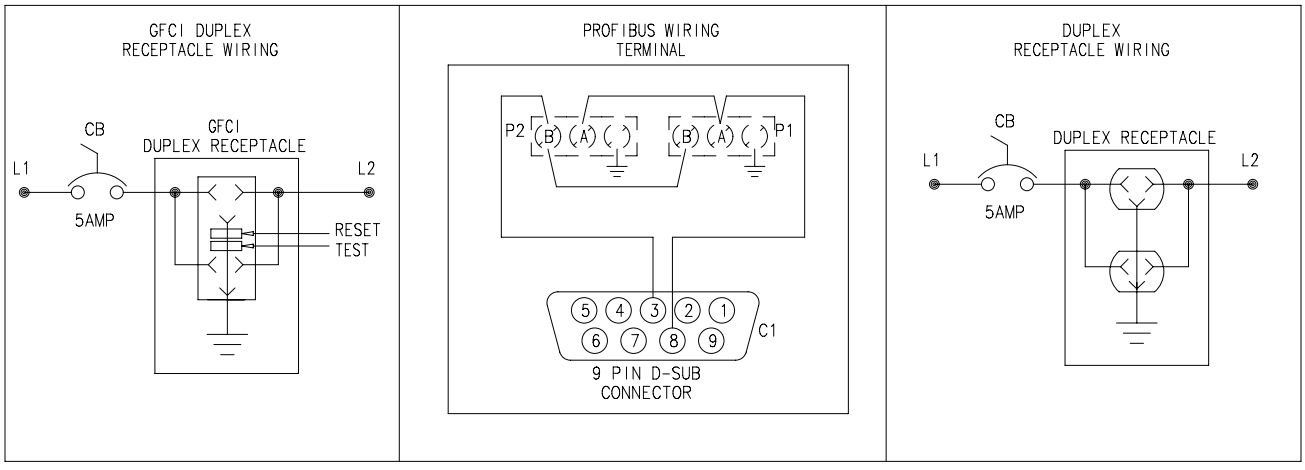
87929490

INTERSAFE DATA INTERFACE PORTS FOR PROFIBUS PROTOCOL

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5PB	Steel	- 120 VAC GFCI receptacle - 9-pin Profibus - 5-amp circuit breaker	9-pin Profibus terminal	---	Allen-Bradley GE Fanuc Siemens
HGF5PBSS	Stainless Steel	- 120 VAC GFCI receptacle - 9-pin Profibus - 5-amp circuit breaker	9-pin Profibus terminal	---	Allen-Bradley GE Fanuc Siemens
HDP5PB	Steel	- 120 VAC duplex receptacle - 9-pin Profibus - 5-amp circuit breaker	9-pin Profibus terminal	---	Allen-Bradley GE Fanuc Siemens
HDP5PBCC	Composite	- 120 VAC duplex receptacle - 9-pin Profibus - 5-amp circuit breaker	9-pin Profibus terminal	---	Allen-Bradley GE Fanuc Siemens



87929494

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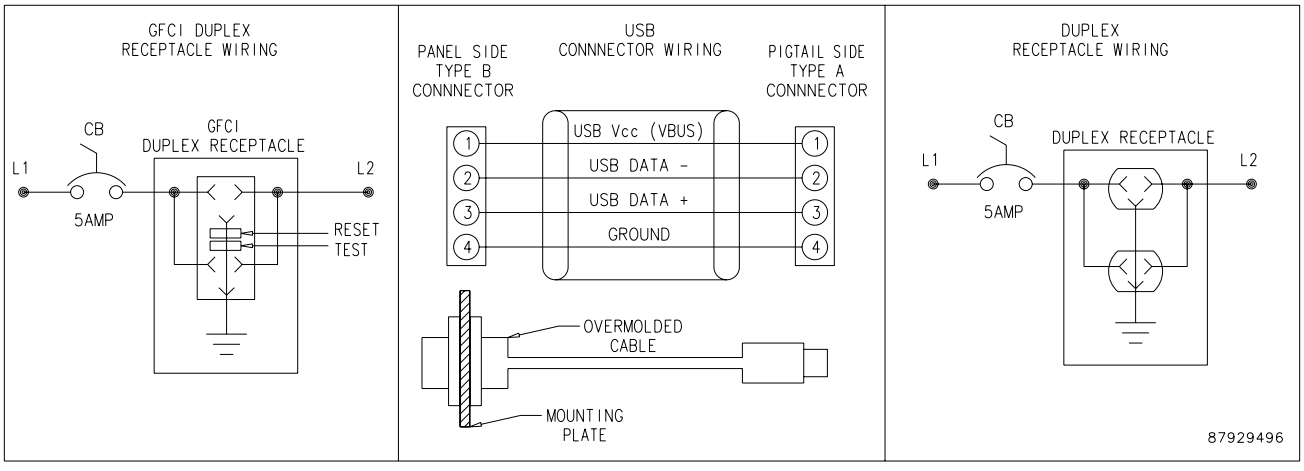
INTERSAFE DATA INTERFACE PORTS FOR USB PROTOCOL, 10-FT. CABLE

Left-hand image shows front view, GFCI Receptacle Models. Right-hand image shows front view, Duplex Receptacle Models. Rear view with and without terminal cover are below the table.

BULLETIN: A70E

Catalog Number	Material	Configuration	Primary Connector/ Termination	Secondary Connector/ Termination	Supports Devices Sold by the Following Manufacturers
HGF5USBUSB	Steel	- 120 VAC GFCI receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type Ab- 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals
HGF5USBUSBSS	Stainless Steel	- 120 VAC GFCI receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type A - 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals
HGF5USBUSBCC	Composite	- 120 VAC GFCI receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type A - 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals
HDP5USBUSB	Steel	- 120 VAC duplex receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type A - 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals
HDP5USBUSBSS	Stainless Steel	- 120 VAC duplex receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type A - 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals
HDP5USBUSBCC	Composite	- 120 VAC duplex receptacle - USB Type A - USB Type A - 5-amp circuit breaker	- USB Type A - 10-ft. cable with female USB Type B connector	- USB Type A - 10-ft. cable with female USB Type B connector	Computer peripherals

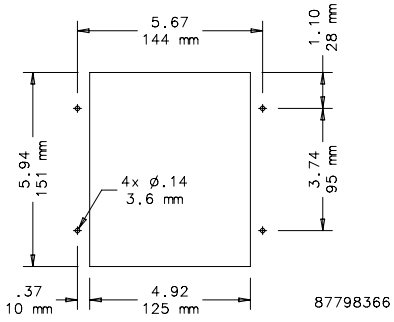


INTERSAFE TYPE 4/4X/12 DATA INTERFACE PORT DISK DRIVE ENCLOSURE

This enclosure, available in both steel and stainless steel, allows access to one or two customer-supplied disk drives from outside the cabinet, allowing computer system use and updates without opening the cabinet.

BULLETIN: A70E

Catalog Number	Configuration	Description
HCP514B	CP2/514b	Steel 2 gang dual CD/DVD drive cover
HCP514BSS	CP2/514b	Stainless steel 2 gang dual CD/DVD drive cover



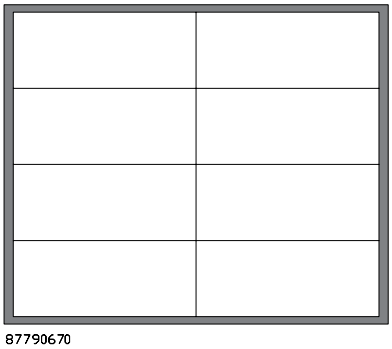
CUTOUT
(NOT TO SCALE)

TO ORDER A MODIFIED CONFIGURATION FOR INTERSAFE TYPE 4/4X/12 DATA INTERFACE PORTS

- Choose the required connectors to a maximum of 8 plate sectors (refer to Plate Sector Diagram)
- Order connectors using the code in the Connector ID column of the INTERSAFE Connectors table
- Hoffman will determine the layout of the connectors. If a specific layout is required, contact your local Hoffman Sales Office for a quotation.
- 5-amp circuit breakers will be provided with 120VAC receptacles unless otherwise specified
- To order, contact your local Hoffman sales representative

Configuration Example **Plate Sectors, 8 Maximum**

Customer Requires	Code	Sectors Used
(1) 6-pin mini DIN (female)	MD6	1
(1) RJ45 connector (female)	R45	1
(1) GFCI duplex receptacle with 3-amp circuit breaker	GF3	5



87790670

INTERSAFE CONNECTOR 8M

Connector Description	Connector Termination	Plate Sectors Used
8-pin mini DIN	Terminal Block	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 9FG

Connector Description	Connector Termination	Plate Sectors Used
GE Fanuc Genius 9-pin female with bracket	10 ft. cable to male 9-pin D-Sub with bracket	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 9FT

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 9-pin female	9-pin terminal	2

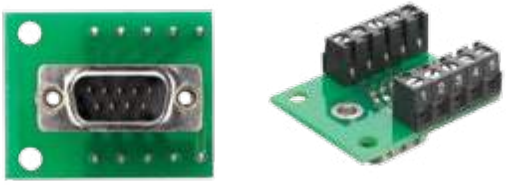
Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 9M

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 9-pin male with cable	10 ft cable to female 9-pin D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 9MT



Connector Description	Connector Termination	Plate Sectors Used
D-Sub 9-pin male	9-pin terminal	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 15F

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 15-pin female	10 ft. cable to male 15-pin D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 15FT

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 15-pin female with 15-pin terminal	15-pin terminal	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 15H

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 15-pin high density female (Monitor)	10 ft cable to male 15-pin high-density D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 15M

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 15-pin male	10-ft. cable to female 15-pin D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 25F

Connector Description	Connector Termination	Plate Sectors Use
D-Sub 25-pin female with cable	10 ft. cable to male 25-pin D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 25FT

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 25-pin female with 25-pin terminal	25-pin terminal	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 25M

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 25-pin male with cable	10-ft. cable to female 25-pin D-Sub	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR 25MT

Connector Description	Connector Termination	Plate Sectors Used
D-Sub 25-pin male	25-pin terminal	2

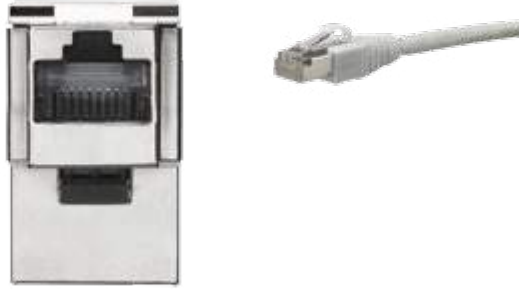
Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR BNC

Connector Description	Connector Termination	Plate Sectors Used
BNC	BNC female receptacle with 10-ft. cable to male BNC	1

Left-hand image shows front view. Right-hand image shows rear view.

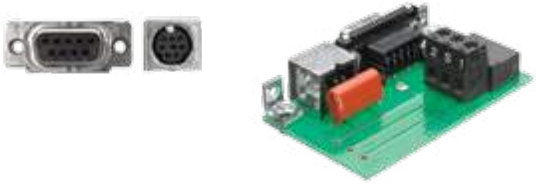
INTERSAFE CONNECTOR CN



Connector Description	Connector Termination	Plate Sectors Used
ControlNet shielded RJ45 female connector	10-ft. shielded cable with male RJ45	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DH



Connector Description	Connector Termination	Plate Sectors Used
Data Highway Plus DB9F	Terminal block	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DNM

Connector Description	Connector Termination	Plate Sectors Used
DeviceNet Mini	Terminal block	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DNP

Connector Description	Connector Termination
DeviceNet Phoenix	Terminal block

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DPO

Connector Description	Connector Termination	Plate Sectors Used
Duplex receptacle with no circuit breaker	Terminal block	4

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DP3

Connector Description	Connector Termination	Plate Sectors Used
Duplex receptacle with 3-amp circuit breaker	Terminal block	5

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR DP5

Connector Description	Connector Termination	Plate Sectors Used
Duplex receptacle with 5-amp circuit breaker	Terminal block	5

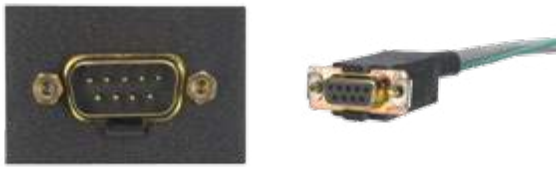
Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR ETH

Connector Description	Connector Termination	Plate Sectors Used
RJ45 female connector	10-ft. cable with male RJ45	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR GEG



Connector Description	Connector Termination	Plate Sectors Used
DB9 GE Genius	10-ft. cable	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR GFO

Connector Description	Connector Termination
GFCI receptacle	Terminal block

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR GF3

Connector Description	Connector Termination	Plate Sectors Used
GFCI receptacle with 3-amp circuit breaker	Terminal block	5

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR GF5

Connector Description	Connector Termination	Plate Sectors Used
GFCI receptacle with 5-amp circuit breaker	Terminal block	5

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR MCL

Connector Description	Connector Termination	Plate Sectors Used
Micrologix	10-ft. cable	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR MD6

Connector Description	Connector Termination
6-pin mini DIN (female)	10-ft. cable with female 6-pin mini DIN

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR MD8

Connector Description	Connector Termination	Plate Sectors Used
8-pin mini DIN (female)	10-ft. cable with male 8-pin mini DIN	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR PB

Connector Description	Connector Termination	Plate Sectors Used
ProfiBus 9-pin	Terminal	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR R11

Connector Description	Connector Termination	Plate Sectors Used
RJ11 female connector with male RJ12	10-ft. cable with male RJ12	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR RJS

Connector Description	Connector Termination	Plate Sectors Used
RJ45 shielded female connector	10-ft. shielded cable with male RJ45	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR SNP

Connector Description	Connector Termination	Plate Sectors Used
DB15F GESNP	DB15 male GESNP with 10-ft. cable	1

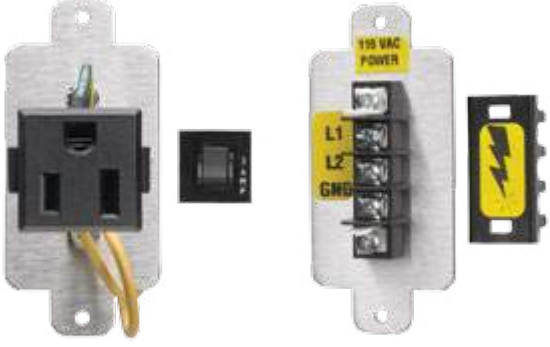
Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR SP0

Connector Description	Connector Termination	Plate Sectors Used
Single receptacle with no circuit breaker	Terminal block with terminal cover	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR SP3



Connector Description	Connector Termination	Plate Sectors Used
Single receptacle with 3-amp circuit breaker	Terminal block with terminal cover	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR SP5

Connector Description	Connector Termination	Plate Sectors Used
Single receptacle with 5-amp circuit breaker	Terminal block with terminal cover	2

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR TMB

Connector Description	Connector Termination	Plate Sectors Used
DB9F Modbus	10-ft. cable	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR TMM

Connector Description	Connector Termination	Plate Sectors Used
DB9F Micro	10-ft. cable	1

Left-hand image shows front view. Right-hand image shows rear view.

INTERSAFE CONNECTOR USB

Connector Description	Connector Termination	Plate Sectors Used
USB Type A, female input	10-ft. cable, USB Type B connector	1

Left-hand image shows front view. Right-hand image shows rear view.

BONDING CABLE CLAMPS

These cable clamps are used when securing cables. They provide the conductivity required to ground the shielding on EMC-shielded cable.

BULLETIN: A80

Catalog Number	Max. Cable Diameter (in.)	Max. Cable Diameter (mm)
ABCC6	0.25	6
ABCC95	0.38	10
ABCC125	0.50	13
ABCC19	0.75	19

EMC CABLE STRAIN RELIEFS

These cable strain reliefs have provisions for grounding the EMC shielding of cables entering an enclosure while maintaining a NEMA Type 4 seal.

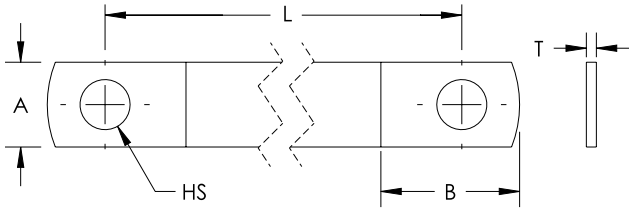
BULLETIN: A80

Catalog Number	Size	Cable Diameter mm/in.	Hole Diameter mm/in.
ACSR4EMC	PG9	4 - 6 0.16 - 0.24	16 0.63
ACSR6EMC	PG11	6 - 10 0.24 - 0.39	19 0.75
ACSR10EMC	PG16	10 - 14 0.39 - 0.55	23 0.91
ACSR14EMC	PG16	14 - 17 0.55 - 0.67	23 0.91
ACSR17EMC	PG21	17 - 20 0.67 - 0.79	29 1.14
ACSR19EMC	PG29	19 - 23 0.75 - 0.91	38 1.50
ACSR22EMC	PG29	22 - 27 0.87 - 1.06	38 1.50
ACSR25EMC	PG36	25 - 30 0.98 - 1.18	48 1.89
ACSR29EMC	PG36	29 - 32 1.14 - 1.26	48 1.89

BONDING STRAPS

FEATURES

- Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance
- Resistant to vibration and fatigue, reducing maintenance
- Provides weight savings, material savings and lower impedance when compared to similar lugged cables with insulation
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Recommended by the EMC/EMI directives and less impedance than cables



BULLETIN: A80

INDUSTRY STANDARDS

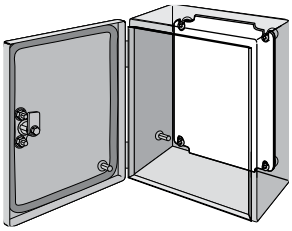
UL467 Listed: File No. E220029
cUL Listed per CSA C22.2 No. 41. File No. E220029

APPLICATION

Bonding straps are a reliable and convenient grounding solution for applications that require flexibility and durability. The tinned copper ground braids with massivated palms come ready to install without any additional cutting, stripping, crimping or punching and do not require the addition of tin or crimped lugs. Bonding straps optimize the electrical contact between each wire and help eliminate moisture issues in the palms, preventing corrosion and lengthening the useful life of the braid.

Catalog Number	A in./mm	B in./mm	T in./mm	L in./mm	HS in./mm	Intensity	Cross Section kcmil	Cross Section mm²
ABS6	.59 15	.79 20	.06 1.5	5.91 150	.26 6.5	120	31.57	16
ABS12	.59 15	.79 20	.06 1.5	11.81 300	.26 6.5	120	31.57	16

PANEL



Panels are 12 gauge steel with a white polyester powder paint or conductive finish. Ground hole is labeled. Sized for M6 fastener.

BULLETIN: A53, A54P

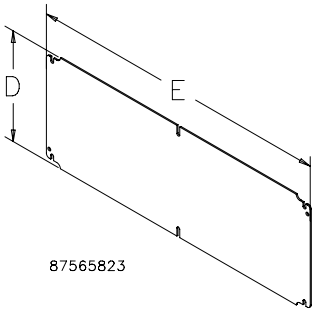
Catalog Number	Material	Panel Size D x E (mm)	Panel Size D x E (in.)	Fits INLINE Enclosure Size (mm)
LP1515	Painted Steel	131 x 131	5.16 x 5.16	150 x 150
LP1515G	Conductive	131 x 131	5.16 x 5.16	150 x 150
LP2015	Painted Steel	181 x 131	7.13 x 5.16	200 x 150
LP2015G	Conductive	181 x 131	7.13 x 5.16	200 x 150
LP2520	Painted Steel	231 x 181	9.10 x 7.13	250 x 200
LP2520G	Conductive	231 x 181	9.10 x 7.13	250 x 200
LP3025	Painted Steel	281 x 231	11.07 x 9.10	300 x 250
LP3025G	Conductive	281 x 231	11.07 x 9.10	300 x 250
LP3530	Painted Steel	331 x 281	13.04 x 11.07	350 x 300
LP3530G	Conductive	331 x 281	13.04 x 11.07	350 x 300

LANDSCAPE PANELS

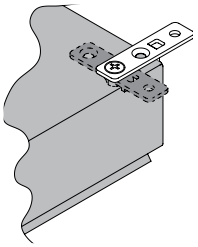
Panels are 12 gauge steel with a white polyester powder paint or conductive finish. They include a labeled ground hole sized for an M6 screw. Panels mount on studs provided in the enclosure or to optional DIN mounting brackets.

BULLETIN: A54P

Catalog Number	Conductive Panel	Material	Panel Size D x E (mm)	Panel Size D x E (in.)
LP2331	LP2331G	Painted Steel	211 x 291	8.31 x 11.46
LP2346	LP2346G	Painted Steel	211 x 441	8.31 x 17.36
LP2360	LP2360G	Painted Steel	211 x 581	8.31 x 22.87
LP2377	LP2377G	Painted Steel	211 x 751	8.31 x 29.57
LP2393	LP2393G	Painted Steel	211 x 906	8.31 x 35.67



MOUNTING BRACKET KIT, PLATED AND 316



Kit is field-installable on all solid-back-body enclosures. Hardware included. Four brackets per kit.

BULLETIN: A54SY, A54Y

Catalog Number	Description
LMFK	Plated steel mounting-bracket kit
LMFKSS	Type 316L stainless steel mounting-bracket kit

Use of LMFKSS recommended to maintain Type 4X rating.

LOCK INSERTS

Lock Inserts can replace the standard slotted quarter-turn latch. Key included.

BULLETIN: A54SY, A54Y

Catalog Number	Description
LLKSM7	Square 7 mm, Chrome Finish
LLKSM7SS	Square 7 mm, Type 316L Stainless Steel
LLKSM8	Square 8 mm, Chrome Finish
LLKDB	Daimler Benz, Chrome Finish
LLKDBM3	Double bit 3 mm, Chrome Finish
LLKSS	Slotted screw, Chrome Finish

WING KNOB LATCH

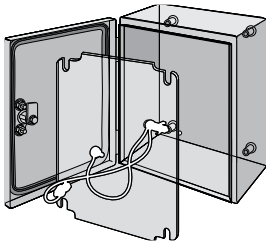
Wing Knob Latch can replace the standard slotted, quarter-turn latch on all hinged-cover and window-cover enclosures. Latch is black die-cast zinc. Includes two keys and installation instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLKWK	0.2 lb.

Reduces UL Type rating from 4 or 4X to 12.

GROUNDING KIT

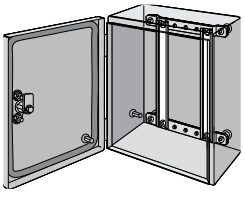


Grounding Kit provides means to attach a grounding conductor to the enclosure. Kit includes two insulated copper wires with a ring terminal at each end, all installation hardware and instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLGK	0.2 lb.

DIN3 TYPE RAILS

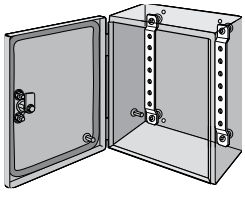


Rails furnish mounting surfaces for DIN3 mount snap-on devices. Rails attach vertically or horizontally to mounting brackets. Kit includes 4 rails and installation instructions. DIN3 Rail Mounting Brackets are required in order to mount rails.

BULLETIN: A54Y

Catalog Number	Fits INLINE Enclosure	L (mm)	L (in.)	Pkg. Qty.
LDR3P15	when A or B = 150 mm	125	4.92	4
LDR3P20	when A or B = 200 mm	175	6.89	4
LDR3P25	when A or B = 250 mm	225	8.86	4
LDR3P30	when A or B = 300 mm	275	10.83	4
LDR3P31	when A or B = 310 mm	285	11.22	4
LDR3P35	when A or B = 350 mm	325	12.80	4
LDR3P40	when A or B = 400 mm	375	14.76	4
LDR3P46	when A or B = 460 mm	435	17.13	4
LDR3P60	when A or B = 600 mm	575	22.64	4
LDR3P77	when A or B = 770 mm	745	29.33	4
LDR3P93	when A or B = 925 mm	900	36.43	4

DIN RAIL OR PANEL-MOUNTING BRACKETS

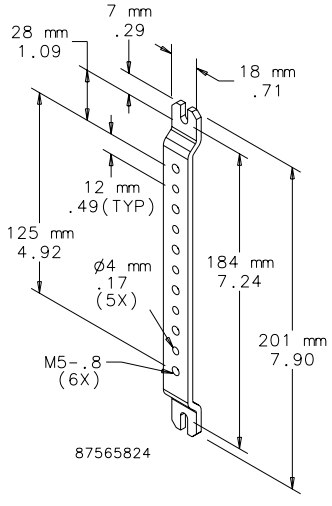


Use as a mounting framework to install DIN rails or a panel. Bracket is offset for additional space in front of or behind mounted equipment. Plated 12 gauge steel. Mounting hardware included. Brackets are required for DIN3 type rails.

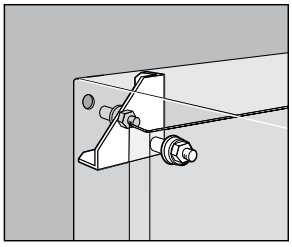
BULLETIN: A54Y

Catalog Number	Fits INLINE Enclosure
LMK15	when A or B = 150 mm
LMK20	when A or B = 200 mm
LMK25	when A or B = 250 mm
LMK30	when A or B = 300 mm
LMK35	when A or B = 350 mm

600-mm and longer enclosures require two sets of brackets for mounting panels.



CONCEPT PANEL CONVERSION KIT



Panel Conversion Kit adapts enclosure for mounting standard NEMA-style panels in CONCEPT enclosures. Bracket attaches to rear collar stud. Kit includes four adapter plates and hardware for mounting panel.

BULLETIN: CWY

Catalog Number	Material	Fits CONCEPT Enclosure
CCPM4	Steel	When A x B is equal to or less than 30.00 x 30.00 in. (762 x 762 mm)

SWING-OUT RACK FRAME

Swing-Out Rack Frames provide 120-degree swing-out access for 19-in. rack equipment. Welded rack frame mounts to front flange. Distance from frame to door surface is 1.32 in. (33 mm) for solid doors and 1.07 in. (27 mm) for window doors. Frame is painted white. Mounting hinge and latching hardware provided.
Order separately clip nut package catalog number XNM5 and screws XSM5 (metric) or AN1032 and screws AS1032 (English).
Swing-Out Rack Frame cannot be mounted on adjustable mounting kit.

BULLETIN: CWY

Catalog Number	Material	Fits Enclosure A x B
CSF2424	Painted steel	24.00 x 24.00 in. (610 x 610 mm)
CSF3024	Painted steel	30.00 x 24.00 in. (762 x 610 mm)
CSF3624	Painted steel	36.00 x 24.00 in. (914 x 610 mm)

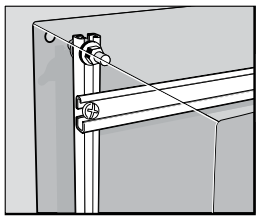
CONCEPT ADJUSTABLE-DEPTH MOUNTING KITS

Adjustable-Depth Mounting Kits provide mounting means for installing panels, swing-out panels, DIN rails, rack angles, mounting channels or grid straps at any depth from front to rear of enclosure. Kits include slide mechanisms and hardware. Use two kits when enclosure has six collar studs for mounting panel. Kit catalog numbers ending in 2 contain two slide mechanisms; catalog numbers ending in 4 contain four slide mechanisms.
Dead Front Panel and Swing-Out Rack Frame cannot be mounted on adjustable mounting kit.

BULLETIN: CWY

Catalog Number	Fits CONCEPT Enclosure (in.)	Fits CONCEPT Enclosure (mm)
CAM64	when C = 6.00	when C = 152
CAM82	when C = 8.00	when C = 203
CAM84	when C = 8.00	when C = 203
CAM102	when C = 10.00	when C = 254
CAM104	when C = 10.00	when C = 254
CAM122	when C = 12.00	when C = 305
CAM124	when C = 12.00	when C = 305
CAM162	when C = 16.00	when C = 406
CAM164	when C = 16.00	when C = 406
CAM202	when C = 20.00	when C = 508
CAM204	when C = 20.00	when C = 508

MOUNTING CHANNELS

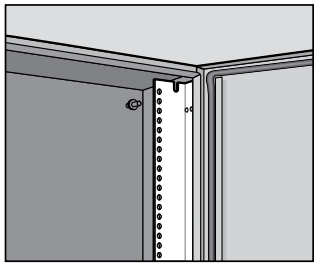


Mounting Channels provide mounting framework for installing DIN rails and grid straps at various positions within the enclosure. Channels can be mounted vertically or horizontally to collar studs or to the slide mechanisms of the adjustable-depth mounting kit. Kit includes two channels.

BULLETIN: CWY

Catalog Number	Fits CONCEPT Enclosure
CMC12	when A or B = 12.00 in. (305 mm)
CMC16	when A or B = 16.00 in. (406 mm)
CMC20	when A or B = 20.00 in. (508 mm)
CMC24	when A or B = 24.00 in. (610 mm)
CMC60	when A or B = 60.00 in. (1524 mm)

RACK-MOUNT ANGLES



Rack-Mount Angles are a mounting means for 19-in. rack equipment in 24-in. wide enclosures. L-shaped through-hole angles attach to enclosure flange or the adjustable-depth mounting kit. Holes are .281 in. (7 mm) in diameter. Clear plated 14 gauge steel construction. Mounting hardware included.
Order separately clip nut package catalog number XNM5 and screws XSM5 (metric) or AN1032 and screws AS1032 (English).

BULLETIN: CWY

Catalog Number	Fits CONCEPT Enclosure	Rack Units
CRA12TH	when A = 24.00 in. (610 mm)	12
CRA16TH	when A = 30.00 in. (762 mm)	16

DIN3 RAIL KITS

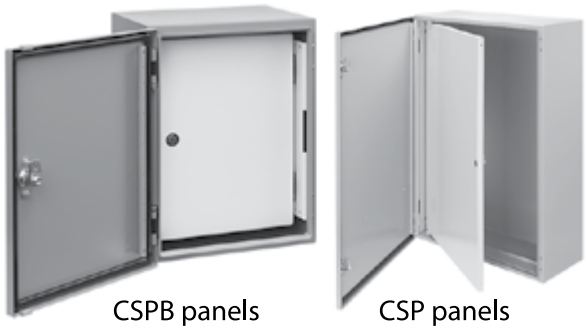
DIN3 Rail Kits supply mounting surfaces for DIN mount snap-on devices in either DIN 1, DIN 3 or CENELEC styles. Rails attach vertically or horizontally to rear collar stud or to mounting channels. Kit includes three rails and mounting hardware.

BULLETIN: CWY

Catalog Number	Fits CONCEPT Enclosure
CDR3P12	when A or B = 12.00 in. (305 mm)
CDR3P16	when A or B = 16.00 in. (406 mm)
CDR3P20	when A or B = 20.00 in. (508 mm)
CDR3P24	when A or B = 24.00 in. (610 mm)

nVent | HOFFMAN

CONCEPT SWING-OUT PANELS



CSPB panels CSP panels

Panels swing clear from the front of the enclosure to provide access to mounted internal equipment. For CSPB panels, maximum swing is 94 degrees. For CSP panels, maximum panel swing is 106 degrees. Distance from panel surface to door when in the latched position is 1.71 in. (43 mm) for solid doors and 1.45 in. (37 mm) for window doors. Kits include panel, brackets and hardware to mount to the front flange. Panel is painted white.

Swing-out panels also can be mounted on front-to-back adjustable rails. CSPB panels require adapter CSPBADB and front-to-back adjustable rails for front-to-back adjustment.

BULLETIN: CWY

CSPB Panels

Catalog Number	Fits Enclosure Size (in.)	Fits Enclosure Size (mm)	Panel Size (in.)	Panel Size (mm)
CSPB1212	12.00 x 12.00	305 x 305	9.72 x 9.75	247 x 248
CSPB1612	16.00 x 12.00	406 x 305	13.72 x 9.75	349 x 248
CSPB1616	16.00 x 16.00	406 x 406	13.72 x 13.75	349 x 349
CSPB1620	16.00 x 20.00	406 x 508	13.72 x 17.75	349 x 451
CSPB2016	20.00 x 16.00	508 x 406	17.72 x 13.75	450 x 349
CSPB2020	20.00 x 20.00	508 x 508	17.72 x 17.75	450 x 451
CSPB2024	20.00 x 24.00	508 x 610	17.72 x 21.75	450 x 553
CSPB2416	24.00 x 16.00	610 x 406	21.72 x 13.73	552 x 349
CSPB2420	24.00 x 20.00	610 x 508	21.72 x 17.75	552.452
CSPB2424	24.00 x 24.00	610 x 610	21.72 x 21.75	552 x 553
CSPB2430	24.00 x 30.00	610 x 762	21.72 x 27.75	552 x 705
CSPB3020	30.00 x 20.00	762 x 508	27.72 x 17.75	704 x 451
CSPB3024	30.00 x 24.00	762 x 610	27.72 x 21.75	704 x 553
CSPB3030	30.00 x 30.00	762 x 762	27.72 x 27.75	704 x 705
CSPB3624	36.00 x 24.00	914 x 610	33.72 x 21.75	857 x 553
CSPB3630	36.00 x 30.00	914 x 762	33.72 x 27.75	857 x 705
CSPB3636	36.00 x 36.00	914 x 914	33.72 x 33.75	857 x 857
CSPB4236	42.00 x 36.00	1067 x 914	39.72 x 33.75	1009 x 857
CSPB4824	48.00 x 24.00	1219 x 610	45.72 x 21.75	1161 x 553
CSPB4836	48.00 x 36.00	1219 x 914	45.72 x 33.75	1161 x 857
CSPB6036	60.00 x 36.00	1542 x 914	57.72 x 33.75	1466 x 857

CSP Panels

Catalog Number	Fits Enclosure (in.)	Fits Enclosure (mm)	Panel Size (in.)	Panel Size (mm)
CSP1212	12.00 x 12.00	305 x 305	9.78 x 9.84	248 x 250
CSP1612	16.00 x 12.00	406 x 305	13.78 x 9.84	350 x 250
CSP1616	16.00 x 16.00	406 x 406	13.78 x 13.84	350 x 352
CSP1620	16.00 x 20.00	406 x 508	13.78 x 17.84	350 x 453
CSP2016	20.00 x 16.00	508 x 406	17.78 x 13.84	452 x 352
CSP2020	20.00 x 20.00	508 x 508	17.78 x 17.84	452 x 453
CSP2024	20.00 x 24.00	508 x 610	17.78 x 21.84	452 x 555
CSP2416	24.00 x 16.00	610 x 406	21.78 x 13.84	553 x 352
CSP2420	24.00 x 20.00	610 x 508	21.78 x 17.84	553 x 453
CSP2424	24.00 x 24.00	610 x 610	21.78 x 21.84	553 x 555
CSP3020	30.00 x 20.00	762 x 508	27.78 x 17.84	706 x 453
CSP3024	30.00 x 24.00	762 x 610	27.78 x 21.84	706 x 555
CSP3030	30.00 x 30.00	762 x 762	27.78 x 27.84	706 x 707
CSP3624	36.00 x 24.00	914 x 610	33.78 x 21.84	858 x 555
CSP3630	36.00 x 30.00	914 x 762	33.78 x 27.84	858 x 707
CSP3636	36.00 x 36.00	914 x 914	33.78 x 33.84	858 x 860

CONCEPT ADAPTER BRACKET

Adapter bracket for use with CONCEPT B-style Swing-Out Panels and Adjustable-Depth Mounting Kits. Bracket enables the B-style swing-out panels to be mounted in infinite front-to-back positions within a CONCEPT enclosure.

BULLETIN: CWY

Catalog Number	Material
CSPBADB	Steel

HANDLES

Handles can replace the standard slotted insert on all CONCEPT wall-mount enclosures. The CONCEPT non-locking handle provides quick and easy access to the enclosure contents. Handle is black plastic. A zinc die-cast keylock handle is available for applications requiring quick access and security. A padlocking handle, also zinc die-cast, accommodates a padlock with up to a 5/16-in. locking bar. Each latch system can be converted from clockwise to counterclockwise opening. Kit includes all hardware.

BULLETIN: CWY

Catalog Number	UL Rating	Description
CWHK	Maintains UL/CSA Type 12 when properly installed	Keylock handle
CWHNL	Maintains UL Type 3, 4, 4X, 12 when properly installed	Non-locking handle
CWHPTO	Maintains UL/CSA Type 3, 4, 4X, 12 when properly installed	Padlock handle

CWHNL is not suitable for 3-point latch operation.

DOOR STOP KIT

Door Stop Kit secures the door in the open position. Kit can be installed at the top or bottom of a door which opens horizontally. Door opening angle can be easily adjusted by means of a wing nut. Stop arm slides neatly out of the way when the door is closed. All parts are plated. Mounting hardware included.

- *Door stop kits should not be installed on enclosures configured with a swing-out panel or swing-out rack frame*
- *Door stop kits cannot be used with CONCEPT window doors*

BULLETIN: A80

Catalog Number	Finish
ADSTOPK	Plated Steel

DATA POCKETS

Data Pockets provide convenient storage for wiring diagrams, operation manuals and other documentation inside an enclosure. Pocket mounts on studs located on the inside of a solid-door enclosure. Constructed of high-impact thermoplastic, pockets are dark gray and have cutout areas for easy access and visibility to contents. Mounting hardware included.

BULLETIN: A80DP

Catalog Number	Length x Width in./mm	Fits CONCEPT Enclosure
ADP1	6.00 x 6.00 152 x 152	when A is less than or equal to 24 and B is less than or equal to 24
ADP2	12.00 x 12.00 305 x 305	when A is greater than or equal to 30 and B is greater than or equal to 20

Use ADP2 when A = 24 and B = 30

HINGE PINS

Contact Customer Service to order new mild steel hinge pins for an existing product.

BULLETIN: VM3

Catalog Number	Description	Qty.
GHPINMS	Hinge Pin	2

LOCK INSERTS

Lock inserts can be substituted for the standard 3-mm double-bit latch insert. Inserts have a chrome finish. Matching key is zinc die-cast.

BULLETIN: A4GY, CWY

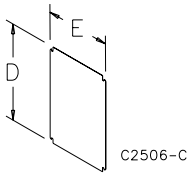
Catalog Number	Description
CLKTM7	Triangular 7-mm insert with key
CLKSM7	Square 7-mm insert with key
CLKDBM3	Double bit with key
CLKSLOT	Slotted Insert no key

nVent | HOFFMAN

CONCEPT PANELS

These panels are taller and wider than corresponding NEMA-size panels. Panels are 14 or 12 gauge steel and painted white or have a conductive finish.
Panels have a formed flange along any side that is longer than 22.20 in. (564 mm).

BULLETIN: CWP, CWY, DWDH2



Catalog Number	Panel Type	Panel Size D x E (in.)	Panel Size D x E (mm)	Gauge
CP1210	Painted steel	10.20 x 8.20	259 x 208	14
CP1210G	Conductive	10.20 x 8.20	259 x 208	14
CP1212	Painted steel	10.20 x 10.20	259 x 259	12
CP1212G	Conductive	10.20 x 10.20	259 x 259	12
CP1612	Painted steel	14.20 x 10.20	361 x 259	12
CP1612G	Conductive	14.20 x 10.20	361 x 259	12
CP1616	Painted steel	14.20 x 14.20	361 x 361	12
CP1616G	Conductive	14.20 x 14.20	361 x 361	12
CP2012	Painted steel	18.20 x 10.20	462 x 259	12
CP2012G	Conductive	18.20 x 10.20	462 x 259	12
CP2014	Painted steel	18.20 x 12.20	462 x 310	12
CP2014G	Conductive	18.20 x 12.20	462 x 310	12
CP2016	Painted steel	18.20 x 14.20	462 x 361	12
CP2016G	Conductive	18.20 x 14.20	462 x 361	12
CP2020	Painted steel	18.20 x 18.20	462 x 462	12
CP2020G	Conductive	18.20 x 18.20	462 x 462	12
CP2412	Painted steel	22.20 x 10.20	564 x 259	12
CP2412G	Conductive	22.20 x 10.20	564 x 259	12
CP2416	Painted steel	22.20 x 14.20	564 x 361	12
CP2416G	Conductive	22.20 x 14.20	564 x 361	12
CP2420	Painted steel	22.20 x 18.20	564 x 462	12
CP2420G	Conductive	22.20 x 18.20	564 x 462	12
CP2424	Painted steel	22.20 x 22.20	564 x 564	12
CP2424G	Conductive	22.20 x 22.20	564 x 564	12
CP2442	Painted steel	22.20 x 40.20	564 x 1021	12
CP2442G	Conductive	22.20 x 40.20	564 x 1021	12
CP3012	Painted steel	28.20 x 10.20	716 x 259	12
CP3012G	Conductive	28.20 x 10.20	716 x 259	12
CP3016	Painted steel	28.20 x 14.20	716 x 361	12
CP3016G	Conductive	28.20 x 14.20	716 x 361	12
CP3020	Painted steel	28.20 x 18.20	716 x 462	12
CP3020G	Conductive	28.20 x 18.20	716 x 462	12
CP3024	Painted steel	28.20 x 22.20	716 x 564	12
CP3024G	Conductive	28.20 x 22.20	716 x 564	12
CP3030	Painted steel	28.20 x 28.20	716 x 716	12
CP3030G	Conductive	28.20 x 28.20	716 x 716	12
CP3048	Painted steel	28.20 x 46.20	716 x 1173	12
CP3048G	Conductive	28.20 x 46.20	716 x 1173	12
CP3060	Painted steel	28.20 x 58.20	716 x 1478	12
CP3060G	Conductive	28.20 x 58.20	716 x 1478	12
CP3220	Painted steel	30.20 x 18.20	762 x 462	12
CP3624	Painted steel	34.20 x 22.20	869 x 564	12
CP3624G	Conductive	34.20 x 22.20	869 x 564	12
CP3630	Painted steel	34.20 x 28.20	869 x 716	12
CP3630G	Conductive	34.20 x 28.20	869 x 716	12
CP3636	Painted steel	34.20 x 34.20	869 x 869	12
CP3636G	Conductive	34.20 x 34.20	869 x 869	12
CP4230	Painted steel	40.20 x 28.20	1021 x 716	12
CP4230G	Conductive	40.20 x 28.20	1021 x 716	12
CP4236	Painted steel	40.20 x 34.20	1021 x 869	12
CP4236G	Conductive	40.20 x 34.20	1021 x 869	12
CP4242	Painted steel	40.20 x 40.20	1021 x 1021	12
CP4242G	Conductive	40.20 x 40.20	1021 x 1021	12
CP4260	Painted steel	40.20 x 58.20	1021 x 1478	12
CP4260G	Conductive	40.20 x 58.20	1021 x 1478	12
CP4420	Painted steel	42.20 x 18.20	1072 x 462	12
CP4824	Painted steel	46.20 x 22.20	1173 x 564	12
CP4824G	Conductive	46.20 x 22.20	1173 x 564	12
CP4836	Painted steel	46.20 x 34.20	1173 x 869	12
CP4836G	Conductive	46.20 x 34.20	1173 x 869	12
CP4848	Painted steel	46.20 x 46.20	1173 x 1173	12
CP4848G	Conductive	46.20 x 46.20	1173 x 1173	12
CP5620	Painted steel	53.20 x 18.20	1351 x 462	12
CP6036	Painted steel	58.20 x 34.20	1478 x 869	12
CP6036G	Conductive	58.20 x 34.20	1478 x 869	12
CP7230	Painted steel	70.20 x 28.20	1783 x 716	12
CP7230G	Conductive	70.20 x 28.20	1783 x 716	12
CP7236	Painted steel	70.20 x 34.20	1783 x 869	12

Catalog number CP4230 is used on CONCEPT disconnect enclosures.

SEISMIC ACCESSORIES

To meet GR-63-CORE Zone 4 seismic standards, Free-Stand enclosures must include the following accessories (purchased separately):

For Seismic Free-Stand with Panel
- Seismic Mounting Plate Kit
- Seismic Panel Mounting Kit
- Panel, Full-Length

For Seismic Free-Stand with Rack Angles
- Seismic Mounting Plate Kit
- Rack Mounting Angles - L-Style (Type RP), Full

SEISMIC MOUNTING PLATE KITS

Kit of six (6) stainless steel mounting plates install over the mounting holes in the base of the enclosure. The mounting plates come predrilled to accept 1/2-in., 5/8-in. or 3/4-in. diameter mounting hardware (not included). Plate dimensions are 3.75 x 3.75 x .25 in. (95 x 95 x 6 mm).

BULLETIN: DCY

Standard Product

Catalog Number	Description	Anchor Size
ASMP12SS	Seismic Mounting Plate, 1/2-in.	1/2 in.
ASMP58SS	Seismic Mounting Plate, 5/8-in.	5/8 in.
ASMP34SS	Seismic Mounting Plate, 3/4-in.	3/4 in.

SEISMIC PANEL MOUNTING KITS

Kit of two (2) panel supports install within the enclosure. Use mounting hardware furnished within these kits along with panel hardware to mount full panels.

BULLETIN: DCY

Standard Product

Catalog Number	Description	Fits Enclosure A in./mm
ASPANKIT60	Seismic Panel Mounting Kit, 60-in.	60 1524
ASPANKIT72	Seismic Panel Mounting Kit, 72-in.	72 1829
ASPANKIT90	Seismic Panel Mounting Kit, 90-in.	90 2286

PANELS

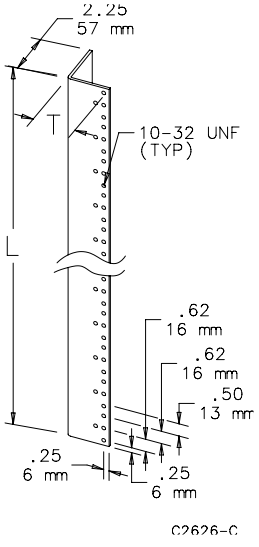
Full panels mount within the enclosure using seismic panel mounting kits. Panels are 12 gauge steel and are finished with white polyester power paint or a conductive, corrosion resistant coating.

BULLETIN: PNL30

Standard Product

Catalog Number	Description	Panel Size in./mm	Fits Enclosure A x B in./mm
A60P24F1	Steel	48.00 x 20.00 1219 x 508	60.00 x 24.00 1524 x 610
A60P24F1G	Conductive	48.00 x 20.00 1219 x 508	60.00 x 24.00 1524 x 610
A72P24F1	Steel	60.00 x 20.00 1524 x 508	72.00 x 24.00 1829 x 610
A72P24F1G	Conductive	60.00 x 20.00 1524 x 508	72.00 x 24.00 1829 x 610
A90P24F1	Steel	1829 x 610 1981 x 508	90.00 x 24.00 90.00 x 24.00
A90P24F1G	Conductive	1829 x 610 1981 x 508	90.00 x 24.00 90.00 x 24.00
A72P30F1	Steel	60.00 x 26.00 1524 x 660	1524 x 660 1829 x 762
A72P30F1G	Conductive	60.00 x 26.00 1524 x 660	1524 x 660 1829 x 762
A60P36F1	Steel	48.00 x 32.00 48.00 x 32.00	60.00 x 36.00 1524 x 914
A60P36F1G	Conductive	48.00 x 32.00 48.00 x 32.00	60.00 x 36.00 1524 x 914
A72P36F1	Steel	60.00 x 32.00 1524 x 813	72.00 x 36.00 1829 x 914
A72P36F1G	Conductive	60.00 x 32.00 1524 x 813	72.00 x 36.00 1829 x 914
A90P36F1	Steel	78.00 x 32.00 1981 x 813	90.00 x 36.00 2286 x 914
A90P36F1G	Conductive	78.00 x 32.00 1981 x 813	90.00 x 36.00 2286 x 914

RACK MOUNTING ANGLES - L-STYLE (TYPE RP)



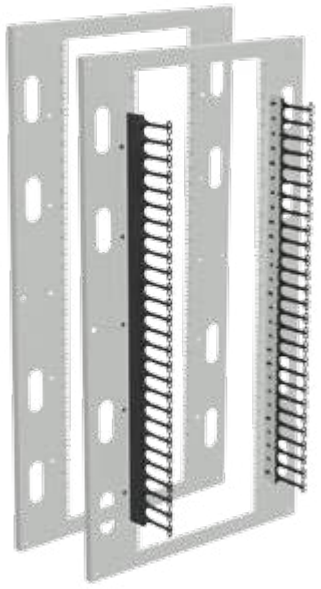
Pairs of full-length rack mounting angles are available for mounting 19-in. and 24-in. rack-mounted equipment. Type RP rack mounting angles are 10 gauge steel with mounting holes tapped #10-32 thread and spaced per EIA standard RS-310-D universal spacing. Angles and mounting hardware are plated. All mounting hardware is furnished.

BULLETIN: A80

Catalog Number	Fits Enclosure A x B in./mm	For Rack Size in./mm	K in./mm	K (m)	L in./mm	M in./mm	T in./mm	Number of Units
A60RP24F5	60.00 x 24.00 1524 x 610	19.00 483	3.78	96	49.00 1245	7.78 198	1.94 49	28
A72RP24F5	72.00 x 24.00 1829 x 610	19.00 483	3.66	93	61.25 1556	7.66 195	1.94 49	35
A72RP30F5	72.00 x 30.00 1829 x 762	24.00 610	3.66	93	61.25 1556	7.66 195	2.44 62	35
A90RP24F5	90.00 x 24.00 2286 x 610	19.00 483	3.91	99	78.75 2000	7.91 201	1.94 49	45

One unit equals 1.75 inches (44 mm).

SEISMIC RACK PANEL KIT



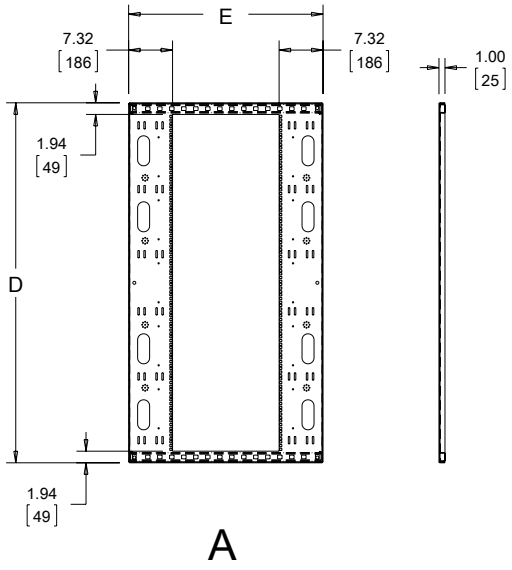
Used when converting a standard Free-Stand Enclosure to a Seismic Free-Stand Enclosure. Rack Panel allows rack-mount equipment to be installed in 36-in. wide enclosures. Seismic Rack Panel has EIA 310 specified square-holes (.375x.375) and larger openings to allow cables to pass through panel. Use with Seismic Panel Support Kits (included) and Seismic Mounting Plate Kits to obtain Seismic standards. Made from 12 gauge steel and painted RAL 7035.

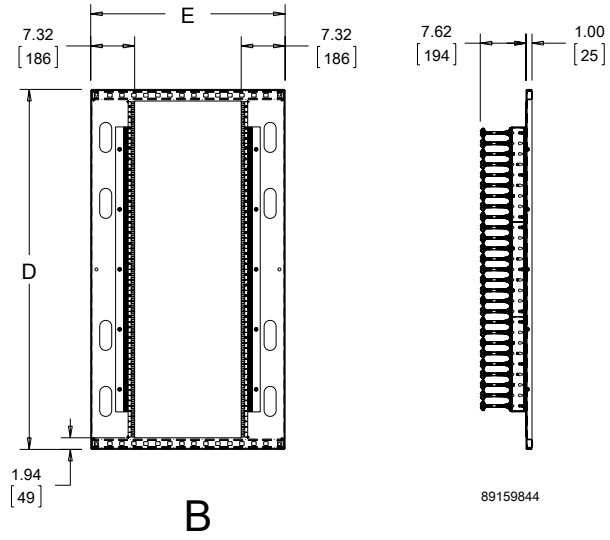
Available with or without vertical cable management for copper and fiber networking cables. Kit includes one (1) Seismic Rack Panel and two (2) Seismic Panel Supports with hardware.

BULLETIN: DSFS

Standard Product

Catalog Number	D in./mm	E in./mm	Fits Enclosure Height x Width in./mm	Cable Managers	Ref. Drawing
A72P36RP	60.00 1524	32.40 823	72.22 x 36.14 1834 x 918	No	A
A72P36RPC	60.00 1524	32.40 823	72.22 x 36.14 1834 x 918	Yes	B
A90P36RP	78.00 1981	32.40 823	90.26 x 36.14 2293 x 918	No	A
A90P36RPC	78.00 1981	32.40 823	90.26 x 36.14 2293 x 918	Yes	B





CHAPTER 13
TECHNICAL INFORMATION

WE BELIEVE COMPLIANCE IS A COLLABORATIVE EFFORT.

Our products reflect our commitment to making a positive impact, and we select supplier partners that meet the Hoffman Supplier Code of Conduct to ensure safe and healthy working conditions, the human rights of workers, high ethical standards and environmental responsibility. We also research and understand worldwide regulations that affect our products such as REACH, RoHS and others.

In addition, we have an uncompromising policy of compliance with the export and import laws of the United States and all other countries where we do business. We can assist you with meeting your contractual and government requirements including country of origin, harmonized tariff schedule, free trade agreements, Buy American qualification and others.

We provide customers industry-leading design and are committed to quality leadership and continual improvement to our products and processes.

TO ENSURE YOUR SPECIFIC COMPLIANCE REQUIREMENTS ARE MET, PLEASE FILL OUT THE COMPLIANCE REQUEST FORM PRIOR TO PLACING A PURCHASE ORDER.

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STANDARDS ORGANIZATION SUMMARY AND DIRECTORY OVERVIEW

What's in a Rating?

As a way of standardizing enclosure performance, organizations like NEMA, UL, CSA, IEC and VDE use rating systems to identify an enclosure's ability to resist external environmental influences. Resistance to everything from dripping liquid to hose-down to total submersion is defined by the ratings systems. While these ratings are all intended to provide information to help you make a safer, more-informed product choice, there are differences among them.

North American Standards Organizations

In North America, NEMA, UL and CSA are the commonly recognized standards organizations. Their ratings are based on similar application descriptions and expected performance. UL and CSA both require enclosure testing by qualified evaluators in their certified labs. They also send site inspectors to make sure a manufacturer adheres to prescribed manufacturing methods and material specifications. NEMA, on the other hand, does not require independent testing and leaves compliance completely up to the manufacturer.

North American enclosure rating systems also include a rating that indicates corrosion resistance. This rating is based on the enclosure's ability to withstand prolonged exposure to salt water spray.

While the corrosion resistance rating is a good indicator that an enclosure can resist corrosion, it does not provide information on how a specific corrosive agent will affect a given enclosure material. It is best to conduct a full analysis of the specific application and environment to determine the best enclosure choice.

International Standards Organizations

Like NEMA, IEC does not require independent testing and leaves compliance completely up to the manufacturer. Nevertheless, there are differences in how enclosure performance is interpreted. For example, UL and CSA test requirements specify that an enclosure fails the water-tight test if even a single drop of water enters the enclosure. In the IEC standards for each level of ingress protection (IP), a certain amount of water is allowed to enter the enclosure.

IEC 60529 IP ratings do not specify construction requirements or degrees of protection against corrosive atmospheres, risk of explosion or conditions such as moisture or corrosive vapors. NEMA Type ratings, on the other hand, do specify construction and performance requirements for most environmental conditions. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC enclosure classification designations cannot be exactly equated with NEMA enclosure Type numbers.

STANDARDS ORGANIZATION DIRECTORY

National Electrical Manufacturers Association
1300 North 17th Street
Suite 1847
Rosslyn, VA 22209
www.nema.org
NEMA Standards Publication No. 250
Enclosures for Electrical Equipment (1000 Volts Maximum)
NEMA Standards Publication No. ICS6
Enclosures for Industrial Controls and Systems

Electrical Equipment Manufacturers Association of Canada
5800 Explorer Drive
Suite 200
Mississauga, Ontario
Canada L4W 5K9
www.electrofed.com

Underwriters Laboratories Inc.
333 Pfingsten Road
Northbrook, IL 60062
www.ul.com
UL 50 Enclosures for Electrical Equipment, Non-Environmental Considerations (Type 1)
UL 50E Enclosures for Electrical Equipment, Environmental Considerations (Remaining Types)
UL 508A Industrial Control Panels
UL 870 Wireways, Auxiliary Gutters and Associated Fittings
UL 94 Flammability of Plastic Materials
UL 2279 Electrical Equipment for Use in CLI Zone 1 and 2 Hazardous Locations
UL 1863 Communication Circuit Accessories
UL 414 Meter Sockets
UL 497 Protectors for Paired Conductor Communication Circuits
UL 1773 Termination Boxes
UL 1203 Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

Canadian Standards Association
178 Rexdale Boulevard
Rexdale (Toronto), Ontario, Canada
M9W 1R3
www.csa.ca
CSA Standard C22.2:
No. 0 General Requirements - Canadian Electrical Code, Part II
No. 0.4 Bonding and Grounding of Electrical Equipment (Protective Equipment)
No. 14 Industrial Control Equipment for Use in Ordinary (Non-Hazardous) Locations
No. 40 Cutout, Junction, and Pull Boxes
No. 26 Construction and Test of Wireways, and Auxiliary Gutters, and Associated Fittings
No. 94 Special Purpose Enclosures
No. 182.4 Plugs, Receptacles, and Connections for Communications Systems
No. 76 Splitters
No. 25 Enclosures for Use in Class 11 Groups E, F, and G Hazardous Locations

International Electrotechnical Commission
3 Rue de Varembé
CH-1211
P.O. Box 131
Geneva 20
Switzerland
www.iec.ch
IEC 60529 Classification of Degrees of Protection Provided by Enclosures
IEC 60204 Safety of Machinery - Electrical Equipment of Machines
IEC 60079 Electrical Apparatus for Explosive Gas Atmospheres
IEC 61641 Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault
IEC 62208 Empty enclosures for low-voltage switch-gear and control-gear assemblies.

STANDARDS ORGANIZATION DIRECTORY (CONTINUED)

Electronic Industries Alliance
2500 Wilson Blvd.
Arlington, VA 22201
www.eia.org
EIA RS-310-D Racks, Panels, and Associated Equipment

American National Standards Institute
1819 L Street NW
Washington, DC 20036
www.ansi.org

National Fire Protection Association
Batterymarch Park
Quincy, MA 02169-7471
www.nfpa.org
NFPA 70 National Electrical Code
NFPA 70e Standard for Electrical Safety Requirements for Employee Workplaces
NFPA 79 Electrical Standard for Industrial Machinery
NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment

International Society of Automotive Engineers
400 Commonwealth Drive
Warrendale, PA 15096-0001
www.sae.org
SAE HS 1738 SAE Standard - Electrical Equipment for Automotive Industrial Machinery

Institute of Electrical and Electronics Engineers
445 Hoes Lane
Piscataway, NJ 08854-1331
www.ieee.org
C37.20.7 IEEE Guide for Testing Medium-Voltage Metal-Enclosed Switchgear for Internal Arcing Faults
IEEE 1584 Guide for Arc Flash Hazard Calculations

National Sanitation Foundation
NSF International
789 Dixboro Road
Ann Arbor, MI 48113-0140
www.nsf.org
NSF Criteria C-2 Special Equipment and/or Devices

Telcordia Technologies
8 Corporate Place
Piscataway, NJ 08854-4157
www.telcordia.com
GR 63 NEBS Requirements: Physical Protection
GR487 Generic Requirements for Electronic Equipment Cabinets

The American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016-5990
www.asme.org
ASME BPE Bioprocessing Equipment

Defense Automation and Production Service
Building 4/D
700 Robbins Avenue
Philadelphia, PA 19111-5094
http://dodssp.daps.dla.mil
MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests
MIL-S-901 Shock Tests. H.I. (High Impact) Requirements for Shipboard Machinery, Equipment, and Systems

TÜV Product Service
Segensworth Road
Fareham Hampshire
P015 5RH
United Kingdom
www.tuvps.co.uk

Institute of German Electronics Engineers (VDE)
Stresemannalle 15
60596 Frankfurt Main
Germany
www.vde.de

NEMA, UL AND CSA RATINGS

Enclosure Type Descriptions for Non-Hazardous Locations

	Type	NEMA[a]	UL[b]	CSA[c]
Indoor	Type 1	Enclosures are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment or locations where unusual service conditions do not exist.	Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt.	General purpose enclosure. Protects against accidental contact with live parts.
Indoor	Type 12	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping noncorrosive liquids.	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water and external condensation of noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of non-corrosive liquids; not provided with knockouts.
Indoor	Type 12K	Enclosures with knockouts are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping noncorrosive liquids.	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water and external condensation of noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of noncorrosive liquids; not provided with knockouts.
Indoor	Type 13	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.	Indoor use to provide a degree of protection against lint, dust seepage, external condensation and spraying of water, oil and noncorrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; seepage and spraying of non-corrosive liquids, including oils and coolants.
Outdoor	Type 3	Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain and sleet; undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against windblown dust and windblown rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain, snow and windblown dust; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 3R	Enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain and sleet; undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against falling rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain and snow; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 3RX	Enclosures are intended for outdoor use primarily to provide a degree of protection against corrosion, falling rain and sleet; undamaged by the formation of ice on the enclosure.	Not specifically defined.	Not specifically defined.
Outdoor	Type 4	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water and hose directed water; undamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain, snow, windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
Outdoor	Type 4X	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.	Indoor or outdoor use; provides a degree of protection against rain, snow, windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure; resists corrosion.
Outdoor	Type 6	Enclosures are intended for use indoors or outdoors where occasional submersion is encountered; limited depth; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against the entry of water during temporary submersion at a limited depth. Undamaged by the external formation of ice on the enclosure; resists corrosion.

[a]This material is reproduced with permission from NEMA. The preceding descriptions, however, are not intended to be complete representations of National Electrical Manufacturers Association standards for enclosures nor those of the Electrical and Electronic Manufacturers Association of Canada.

[b]This material is reproduced with permission from Underwriters Laboratories Inc. Enclosures for Electrical Equipment, UL 50, 50E and Industrial Control Panels, UL 508A.

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Underwriters Laboratories Inc. (UL) shall not be responsible for the use of or reliance upon a UL Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon a UL Standard.

Some enclosures may have multiple ratings. For instance:

4, 12—Outdoor use; able to be used indoors with modifications

4X, 3RX—Outdoor use; able to be used indoors with modifications

4, 9—Can be used in both hazardous and non-hazardous locations

COMPARISON OF SPECIFIC NON-HAZARDOUS APPLICATIONS IN OUTDOOR LOCATIONS

Enclosure Type Rating

Provides a Degree of Protection Against the Following Environmental Conditions	3	3R[a]	3RX[a]	4	4X	6
Incidental contact with the enclosed equipment	•	•	•	•	•	•
Rain, snow and sleet[b]	•	•	•	•	•	•
Windblown dust	•			•	•	•
Hose-down				•	•	•
Corrosive agents			•		•	
Occasional temporary submersion						•

[a]These enclosures may be ventilated.

[b]External operating mechanisms are not required to be operable when the enclosure is ice covered.

The preceding table is reproduced by permission of the National Electrical Manufacturers Association from NEMA Standards Publication 250 "Enclosures for Electrical Equipment (1000 Volts Maximum)".

COMPARISON OF SPECIFIC NON-HAZARDOUS APPLICATIONS IN INDOOR LOCATIONS

Enclosure Type Rating

Provides a Degree of Protection Against the Following Environmental Conditions	1[a]	4	4X	6	12	12K	13
Incidental contact with the enclosed equipment	•	•	•	•	•	•	•
Falling dirt	•	•	•	•	•	•	•
Falling liquids and light splashing		•	•	•	•	•	•
Dust, lint, fibers and flyings[b]		•	•	•	•	•	•
Hose-down and splashing water		•	•	•			
Oil and coolant seepage					•	•	•
Oil or coolant spraying and splashing							•
Corrosive agents			•				
Occasional temporary submersion				•			

[a]These enclosures may be ventilated. However, Type 1 may not provide protection against small particles of falling dirt when ventilation is provided in the enclosure top. Consult Hoffman for more information.

[b]These fibers and flyings are non-hazardous materials and are not considered Class II type ignitable fibers or combustible flyings. For Class III type ignitable fibers or combustible flyings see the National Electrical Code Section 505.

The preceding table is reproduced by permission of the National Electrical Manufacturers Association from NEMA Standards Publication 250 "Enclosures for Electrical Equipment (1000 Volts Maximum)".

ENCLOSURE TYPE RATING VERSUS IP RATING

Electrical enclosures are rated by Type (NEMA 250 / UL 50, 50E), and/or IP rating (IEC 60529) based upon the degree of protection provided. Type ratings and IP ratings have only the following in common:

1. A degree of protection for persons from hazardous components inside the enclosure
2. A degree of protection for equipment inside the enclosure from ingress of solid foreign objects, including dust
3. A degree of protection for equipment inside the enclosure from ingress of water

NEMA 250 and UL 50, 50E Type rating documentation defines additional requirements that a Type-rated enclosure must meet. These include:

- Mechanical impact on enclosure walls
- Gasket aging and oil resistance
- Corrosion resistance
- Door and cover latching requirements
- Sheet metal gauge construction requirements (UL 50 only)

Electrical enclosures that carry only an IP rating have not been designed or tested to the additional Type-rating requirements. For this reason, and because the tests and evaluations for other characteristics are not identical, the IP ratings cannot be exactly equated with NEMA enclosure Types.

Electrical enclosures manufactured by Hoffman are tested for and carry both Type and IP ratings.

Fluid Statics and Dynamic Comparison of Ingress Water Tests

Test Type	Flow Rate (gal./min.)	Flow Rate (l/min.)	Nozzle Diameter in./mm	Nozzle Area ($in.^2$)	Nozzle Velocity (ft./sec.)	Equivalent Head (ft.)	Equivalent Pressure (psi)	Mass Flow (lb./sec.)	Power (hp)	Total Force on Vertical Plate (lb.)
Type 3	45.00	170	1.0000 25.4	0.7854	18.38	5.25	2.274	6.256	0.060	3.5716
Type 4	65.00	246	1.000 25.4	0.7854	26.55	10.85	4.744	9.037	0.180	7.4516
IPX5	3.30	12.5	0.2480 6.3	0.0483	21.93	7.46	3.235	0.459	0.006	0.3126
IPX6	26.42	100	0.4921 12.5	0.1902	44.55	30.82	13.357	3.672	0.206	5.0815

GLOSSARY TERMS SPECIFYING NON-HAZARDOUS ENVIRONMENTAL CONDITIONS

Corrosion-Resistant
Constructed to provide a degree of protection against exposure to corrosive agents such as salt spray. Type 3RX and 4X enclosures meet this requirement.

Damp Locations
Locations protected from weather and not subject to saturation with water or other liquids but subject to moderate degrees of moisture. Examples of such locations include partially protected locations under canopies, marquees, roofed open porches and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, some barns and some cold-storage warehouses. See the indoor enclosure types and select a type rating that fits the specific application.

Dust-tight
Constructed so that circulating or airborne dust will not enter the enclosure under specified test conditions. Type 3, 4, 4X, 12, 12K and 13 enclosures meet this requirement.

Drip-tight
Constructed so that falling moisture or dirt does not enter the enclosure under specified test conditions. Type 3, 4, 4X, 12, 12K and 13 enclosures meet this requirement.

Indoor
Not to be exposed to weather. Type 1, 12, 12K and 13 enclosures meet this requirement.

Oil-Resistant
Constructed so that oil will not interfere with successful operation of equipment. Type 12 and 13 enclosures meet this requirement.

Oil-tight
Constructed so that oil will not enter the enclosure under specified test conditions. Type 13 enclosures meet this requirement.

Outdoor
Constructed or protected so that exposure to the weather will not interfere with successful operation of equipment. Type 3, 3R, 4, 4X and 6 enclosures meet this requirement. These ratings can also be used indoors.

Rainproof
Constructed, protected or treated to prevent beating rain from interfering with the successful operation of the apparatus or result in wetting of live parts and wiring within the enclosure under specified test conditions. Type 3R and 3RX enclosures meet this requirement.

Rain-tight
Constructed or protected so that exposure to beating rain will not result in water entering the enclosure under specified test conditions. Type 3, 4, 4X and 6 enclosures meet this requirement.

Water-tight
Constructed so that moisture will not enter the enclosure when it is subjected to a stream of water under specified test conditions. Type 4, 4X and 6 enclosures meet this requirement.

Weatherproof
Constructed or protected so that exposure to the weather will not interfere with successful operation of the equipment. Rainproof, rain-tight or water-tight equipment can fulfill the requirements for weatherproof where varying weather conditions other than wetness, such as snow, ice, dust or temperature extremes, are not a factor.

Wet Locations
Installations underground or in concrete slabs or masonry in direct contact with the earth; in locations subject to saturation with water or other liquids, such as vehicle washing areas; and in unprotected locations exposed to weather. Use weatherproof enclosures with a type rating that fits the specific application.

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IP RATING DESCRIPTIONS

Example Rating

If 1st IP number is...	and the 2nd ip number is...	Then the IP rating is
2	3	IP23
(protection against solid objects)	(protection against liquids)	An enclosure with this designation provides protection against touch with a finger, penetration of solid objects greater than 12mm, and spraying water.

First Numeral (Solid Objects and Dust)

IP	Protection of Persons	Protection of Equipment
0	No Protection	No Protection
1	Protected against contact with large areas of the body (back of hand)	Protected against objects over 50 mm in diameter
2	Protected against contact with fingers	Protected against solid objects over 12 mm in diameter
3	Protected against tools and wires over 2.5 mm in diameter	Protected against solid objects over 2.5 mm in diameter
4	Protected against tools and wires over 1 mm in diameter	Protected against solid objects over 1 mm in diameter
5	Protected against tools and wires over 1 mm in diameter	Protected against dust (limited ingress, no harmful deposit)
6	Protected against tools and wires over 1 mm in diameter	Totally protected against dust

Second Numeral (Liquid)

IP	Protection of Equipment
0	No Protection
1	Protected against vertically falling drops of water, e.g. condensation
2	Protected against direct sprays of water up to 15 degrees from vertical
3	Protected against sprays to 60 degrees from vertical
4	Protected against water sprayed from all directions (limited ingress permitted)
5	Protected against low-pressure jets of water from all directions (limited ingress permitted)
6	Protected against strong jets of water
7	Protected against the effects of immersion between 15 cm and 1 m
8	Protected against long periods of immersion under pressure
9	Protected against high pressure and temperature water jets

CE

For industrial control equipment, the CE Mark is not intended to be applied to empty enclosures because such enclosures are inactive components of a final assembly. The responsibility of ensuring compliance with all applicable EU directives and harmonized standards belongs with the final equipment manufacturer.

SHORT CIRCUIT CURRENT RATING FOR ENCLOSURES

The short circuit current rating is not required for an empty UL 508A enclosure. The majority of Hoffman's electrical accessories are generally used in the control circuit portion of a UL 508A Industrial Control Panel. Electrical accessories used in a control circuit are not included in determining the overall short circuit current rating of the industrial control panel. UL has not issued a requirement at the time of this publication to mark these accessories with a short circuit current rating.

For electrical accessories that are NOT located in a control circuit, and are not otherwise marked with a short circuit current rating, like Hoffman's power distribution units, then the default rating in Table SB4.1 of UL 508A would apply to the component being evaluated. If the power distribution unit is essentially receptacles or terminals, then the assumed short circuit current value from Table SB4.1 would be selected.

If the accessory contains both a load and controls, the controls would need to be assigned a short circuit current rating. An example of this would be an air conditioner that has a contactor included in the design. In this case, if the contactor is not marked, the SCCR could be assigned from Table SB4.1 in UL508A, or be tested per UL508, or the standard that applies to the component being evaluated, in this case the contactor.

SHORT CIRCUIT CURRENT RATING FOR AIR CONDITIONERS AND HEAT EXCHANGERS

Article 409 of the 2008 National Electric Code (NFPA 70) requires industrial control panels to be marked with a short circuit current rating. As specified in the National Electric Code, UL508A-2001 Supplement SB, the Standard of Safety for Industrial Control Equipment, provides an accepted method for determining the short-circuit current rating of the control panel.

The SCCR rating for our air conditioners and heat exchangers has a default value of 5 kA.

You may use a 5 or 10 kVA isolation transformer between the customer's panel and our air conditioner and not have an effect on the customer's 65 kA rating.

You may use a fuse or circuit breaker with a 5 kA short circuit rating on the line side of the ACU and its branch circuit protective device and not have an effect on the customer's 65 kA rating.

The current limiting fuse or circuit breaker used on the line side of the branch circuit protection for the ACU must have a SCCR => that of the panel rating. Additionally for a current limiting fuse the customer would need to verify using table SB4.2 of UL 508A, that the let through current (Ip * 10^3) of the fuse is <= 5KA. If a circuit breaker is used as feeder protection, it **must** be marked Current Limiting type from the manufacturer, and the panel builder would need to verify based on the manufacturers published curves that it will let through <= 5kA. Examples of these curves are included in UL 508A supplement SB.

You can run separate circuits for the panel and the air conditioner as long as each is labeled with their individual SCCR ratings.

(5 kA and 65 kA)

If the customer does not implement one of the options above, then the resulting SCCR rating would be the 5 kA rating of the ACU, if that is the lowest rated component in the panel.

Testing represents another option; however, if the customer does not implement these options, then the resulting short circuit rating of the panel is based on the lowest short circuit current rating of all power circuit components installed in the panel.

PAINT FINISHES ON STANDARD HOFFMAN STEEL ENCLOSURES

The National Electrical Manufacturers Association (NEMA) and Underwriters Laboratories Inc. (UL) have responded to the costly problem of corrosion by establishing a rating that guarantees an enclosure meets certain minimum conditions of corrosion resistance.

The NEMA 4X rating is applied to materials subjected to 200 hours of salt spray with no more evidence of corrosive pitting than exhibited by a concurrently run sample of Type 304 stainless steel. One drawback of the NEMA 4X rating, however, is that it only provides salt spray resistance. The task of selecting enclosures that possess satisfactory corrosion and chemical resistance in actual applications is still the responsibility of the specifying engineer. To simplify this task, Hoffman has completed extensive materials comparison testing to establish the parameters of relative material acceptability based upon total submersion of test samples. The results of this testing are summarized here.

Chemical Resistance

The Chemical Resistance chart below and on the following pages is an aid to using our product.
Each chemical and substrate has a three number rating system, 1-2-3. The order of these numbers represents 30, 60 and 120 days of total submersion of the substrate in each chemical at 72 F (22 C). Each column is also coded according to chemical class. This chart is general in nature and not intended to apply to a specific situation. The prospective user must determine the application of our product based upon an environment's individual characteristics.

Hoffman offers no guarantee or warranty as to the applicability of this chart for any particular situation as actual conditions of use are beyond our control.

Chemical Resistance Test Results

Tested Enclosure Material	#1 Fuel Oil (Kerosene)	#2 Fuel Oil	Acetic Acid (10% sol.)	Acetone	Aluminum Chloride (10% sol.)	Aluminum Sulfate (10% sol.)	Ammonium Chloride (10% sol.)	Ammonium Hydroxide (25% sol.)	Ammonium Nitrate (10% sol.)
Fiberglass, Compression Molded	1-1-1	1-1-1	2-2-2	1-2-4	1-1-1	1-1-2	1-1-1	4-4-4	1-1-4
Fiberglass, Pultruded	1-1-1	1-1-1	2-2-2	3-3-4	1-1-1	1-1-1	1-1-1	4-4-4	1-2-4
Fiberglass, Spray-Up	1-1-1	2-2-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-2-4
Acrylic Clear Sheet	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Acrylic, Molded	1-1-1	2-2-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
ABS	2-2-2	4-4-4	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polycarbonate Clear Sheet	2-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-2-4
Polycarbonate, Silicone Coated	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	4-1-1	1-1-1	4-4-4	1-1-4
Polyester (PBT)	1-1-1	1-1-1	1-1-1	3-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polyester (PBT Glass Reinforced)	1-2-2	1-2-2	1-1-1	2-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Gasket, Rubber Neoprene, Solid 51%	4-4-4	4-4-4	2-2-2	2-3-4	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1
Gasket, Rubber Neoprene, Sponge	4-4-4	4-4-4	4-4-4	3-4-4	1-1-1	3-3-4	1-1-1	3-3-4	1-1-4
Gasket, Rubber Poron, Polyurethane Sponge	1-1-1	4-4-4	1-2-3	4-4-4	1-1-1	1-2-1	1-1-1	1-1-1	1-1-1
Gasket, Rubber Silicone, Sponge	4-4-4	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1
Gasket, Rubber Viton, Sponge	1-1-1	1-1-1	2-3-4	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-1-4
Gasket, foam-in-place	1-2-2	1-2-2	1-2-2	3-3-3	–	1-1-1	1-1-1	1-1-1	1-1-1
Aluminum, 5052	1-1-1	1-1-1	4-4-4	1-1-1	4-4-4	3-4-4	3-4-4	4-4-4	2-2-2
Monel	1-1-1	1-1-1	1-2-3	1-1-1	1-1-1	1-2-2	1-1-1	4-4-4	1-1-1
Steel, Cadmium Plate with Chromate	1-1-1	1-1-1	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4
Steel, Epoxy Powder Coat, Painted	1-1-1	1-1-1	4-4-4	2-2-2	4-4-4	1-3-4	3-4-4	4-4-4	4-4-4
Steel, Enamel, Machinery, Over Prime, Painted	1-1-1	1-1-2	4-4-4	1-1-3	4-4-4	1-4-4	3-4-4	4-4-4	3-4-4
Steel, Galvanized, G-90	1-1-1	1-1-1	4-4-4	1-1-3	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4
Steel, Grey Prime, Over Phosphate, Painted	1-1-1	1-1-1	4-4-4	1-1-2	4-4-4	3-4-4	3-4-4	4-4-4	3-4-4
Steel, Polyurethane Painted	1-1-1	1-1-1	4-4-4	4-4-4	4-4-4	3-4-4	4-4-4	4-4-4	4-4-4
Steel, Polyester Powder Painted	1-1-1	2-2-2	4-4-4	2-2-3	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4
Steel, Stainless, Type 304	1-1-1	1-1-1	1-1-1	1-1-1	1-1-2	1-1-2	1-1-1	1-1-1	1-1-1
Steel, Stainless, Type 316	1-1-1	1-1-2	1-1-1	1-1-1	1-1-2	1-1-1	1-1-1	1-1-1	1-1-1

1 Recommended — Unaffected by chemical; no deterioration
2 Satisfactory — Very little effect; reduced aesthetics probable over time
3 Limited use — Chemical attack probable with slow deterioration
4 Not recommended — Severe attack is imminent; rapid deterioration.

	SOLVENTS	ALKALIS	ACIDS
Recommended	Type 304 stainless steel Type 316 stainless steel Fiberglass (compression molded) Aluminum Polyester	ABS Polyester Type 304 stainless steel	ABS Polyester Polycarbonate Fiberglass (spray-up) Type 304 stainless steel Type 316 stainless steel
SATISFACTORY	Steel (polyester powder coat) Fiberglass (spray-up) Polycarbonate ABS	Type 316 stainless steel Polycarbonate Fiberglass (compression molded) Fiberglass (spray-up)	Fiberglass (compression molded)
LIMITED USE		Aluminum Steel (polyester powder coat)	Aluminum Steel (polyester powder coat)

Hoffman offers no guarantee or warranty as to the applicability of these charts for any particular situation as actual conditions of use are beyond our control. Call your local Hoffman distributor for assistance.

This chart provides guidance for determining the feasibility of using certain enclosure materials in environments containing solvents and organics, alkalis and oxidizers, and acids and neutral salts. Materials are rated on a scale of Recommended to Limited Use based upon their performance in resisting corrosion. However, note that the enclosure materials listed as Limited Use will perform well when exposed to certain specific corrosive agents within the three general classes.
We recommend that you refer to the detailed Chemical Resistance Charts on the bottom of this page and on the next several pages for specific performance information based upon your environmental conditions.

Chemical Resistance Test Results (continued)

Ammonium Phosphate (10% sol.)	ASTM #1 Oil	ASTM #3 Oil	Axle Grease	Boric Acid (10% sol.)	Bromine Water	Calcium Chloride (10% sol.)	Calcium Hydroxide (10% sol.)	Calcium Sulfate (10% sol.)	Calcium Hypochlorite (10% sol.)	Carbolic Acid (25% sol.)	Carbon Tetrachloride	Tested Enclosure Material
2-4-4	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1	1-1-3	1-1-1	1-1-3	3-3-3	1-1-1	Fiberglass, Compression Molded
1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	3-4-4	1-1-1	2-3-4	4-4-4	1-1-1	Fiberglass, Pultruded
1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	3-3-3	1-1-1	1-3-4	4-4-4	1-1-2	Fiberglass, Spray-Up
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-2-2	4-4-4	4-4-4	Acrylic Clear Sheet
1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	3-3-3	2-2-2	1-1-1	1-1-1	1-1-3	4-4-4	4-4-4	Acrylic, Molded
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	ABS
1-1-1	2-2-2	2-2-2	2-2-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	Polycarbonate Clear Sheet
1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	3-4-4	1-1-1	4-4-4	4-4-4	4-4-4	Polycarbonate, Silicone Coated
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-2-2	Polyester (PBT)
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-2	1-1-1	1-2-2	4-4-4	1-1-4	Polyester (PBT Glass Reinforced)
1-1-2	3-3-3	4-4-4	1-3-3	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	2-2-4	Gasket, Rubber Neoprene, Solid 51%
4-4-4	1-1-2	4-4-4	1-2-3	1-1-1	4-4-4	1-1-1	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	Gasket, Rubber Neoprene, Sponge
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-4	1-1-1	4-4-4	4-4-4	4-4-4	Gasket, Rubber Poron, Polyurethane Sponge
1-1-1	1-1-1	3-3-3	1-1-1	1-1-1	4-4-4	1-1-1	1-1-2	1-1-1	1-1-1	4-4-4	4-4-4	Gasket, Rubber Silicone, Sponge
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	3-3-3	Gasket, Rubber Viton, Sponge
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	4-4-4	2-2-3	3-3-3	Gasket, foam-in-place
4-4-4	1-1-1	1-1-1	1-1-1	1-2-2	4-4-4	2-2-3	4-4-4	1-2-2	3-4-4	1-2-2	1-1-1	Aluminum, 5052
1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	Monel
4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-2-2	2-4-4	2-2-3	4-4-4	3-4-4	1-1-1	Steel, Cadmium Plate with Chromate
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-2	1-1-4	2-2-4	4-4-4	4-4-4	1-1-1	Steel, Epoxy Powder Coat, Painted
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-4-4	2-2-3	2-2-4	4-4-4	4-4-4	1-1-4	Steel, Enamel, Machinery, Over Prime, Painted
4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	Steel, Galvanized, G-90
2-2-4	1-1-1	1-1-1	1-1-1	1-4-4	4-4-4	4-4-4	1-4-4	4-4-4	4-4-4	4-4-4	4-4-4	Steel, Grey Prime, Over Phosphate, Painted
1-2-4	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	3-4-4	1-4-4	4-4-4	4-4-4	4-4-4	1-1-1	Steel, Polyurethane Painted
1-1-1	1-1-1	1-1-1	1-1-1	1-4-4	4-4-4	1-4-4	4-4-4	2-2-4	4-4-4	4-4-4	3-4-4	Steel, Polyester Powder Painted
1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	Steel, Stainless, Type 304
1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	Steel, Stainless, Type 316

Each chemical is also coded according to class.
The following code is located at the top of each chemical column.

Solvents and organics
Alkalis and oxidizers
Acids and neutral salts

Chemical Resistance Test Results (continued)

Tested Enclosure Material	Chlorine Water (5-10 ppm)	Chrome Plating (sol.)	Citric Acid (10% sol.)	Cutting Fluid Castrol (980 H)	Cutting Fluid Norton (205)	Cutting Fluid Rustlick (10% sol.)	Cutting Fluid 5 Star (980 H)	Cutting Oil Dark	Distilled Water	Ethyl Alcohol	Ethylene Glycol	Ferric Chloride (10% sol.)	Formic Acid (10% sol.)	Hydraulic Brake Fluid
Fiberglass, Compression Molded	1-1-1	3-3-3	2-2-2	1-2-2	1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-3-3	1-2-3	1-1-1
Fiberglass, Pultruded	1-1-1	2-3-3	1-1-1	2-2-2	3-3-3	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	2-2-2	1-2-2	1-1-2
Fiberglass, Spray-Up	1-1-1	2-2-2	1-1-1	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	4-4-4	1-1-1	2-2-2
Acrylic Clear Sheet	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-2	4-4-4
Acrylic, Molded	1-1-1	2-2-2	1-1-1	3-3-3	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-2	4-4-4
ABS	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4
Polycarbonate Clear Sheet	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	1-1-2	1-1-1	1-1-1	1-1-1	3-4-4
Polycarbonate, Silicone Coated	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-1-1	1-1-3	1-1-1	1-1-1	3-4-4
Polyester (PBT)	1-1-1	1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polyester (PBT Glass Reinforced)	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Gasket, Rubber Neoprene, Solid 51%	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4
Gasket, Rubber Neoprene, Sponge	1-1-3	4-4-4	4-4-4	2-3-3	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-2-4	1-1-1	1-3-3	3-3-4	3-4-4
Gasket, Rubber Poron, Polyurethane Sponge	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-3-3	1-2-4	4-4-4
Gasket, Rubber Silicone, Sponge	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-4-4	1-1-1	1-1-1	1-1-1	1-1-2	4-4-4	1-1-2
Gasket, Rubber Viton, Sponge	1-1-1	2-2-2	1-1-1	4-4-4	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-2-3	4-4-4
Gasket, foam-in-place	—	—	1-1-1	1-1-1	—	—	—	—	1-1-1	2-3-3	1-1-1	1-2-2	2-2-2	2-2-3
Aluminum, 5052	2-2-2	4-4-4	2-4-4	1-1-1	3-3-4	2-2-2	1-1-1	1-1-1	1-2-4	1-1-1	1-1-1	4-4-4	2-4-4	1-1-1
Monel	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-4-4	1-1-1	1-1-1
Steel, Cadmium Plate with Chromate	2-3-3	4-4-4	4-4-4	2-2-2	3-3-4	4-4-4	2-2-3	1-1-1	3-3-3	1-1-1	1-1-1	4-4-4	4-4-4	1-1-2
Steel, Epoxy Powder Coat, Painted	1-1-1	4-4-4	4-4-4	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	1-1-2	1-1-2	1-1-1	4-4-4	4-4-4	4-4-4
Steel, Enamel, Machinery, Over Prime, Painted	1-4-4	4-4-4	1-4-4	1-4-4	1-2-3	1-1-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	2-3-3
Steel, Galvanized, G-90	4-4-4	4-4-4	4-4-4	2-3-4	4-4-4	4-4-4	2-2-4	1-1-1	4-4-4	1-1-1	2-2-4	4-4-4	4-4-4	1-1-1
Steel, Grey Prime, Over Phosphate, Painted	1-1-1	4-4-4	4-4-4	1-4-4	1-4-4	1-4-4	1-1-4	1-1-1	1-4-4	1-1-1	1-1-1	4-4-4	4-4-4	1-1-3
Steel, Polyurethane Painted	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-4-4	1-1-1	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4
Steel, Polyester Powder Painted	1-1-1	4-4-4	1-4-4	1-1-1	3-4-4	1-4-4	1-4-4	1-1-1	1-1-1	2-2-2	1-1-1	4-4-4	4-4-4	4-4-4
Steel, Stainless, Type 304	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-4-4	1-1-1	1-1-1
Steel, Stainless, Type 316	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-4-4	1-1-1	1-1-1

Tested Enclosure Material	Perchlor-ethylene	Phosphoric Acid (50% sol.)	Phosphoric Acid (25% sol.)	Pickling (Solution)	Potassium Chloride (25% sol.)	Potassium Carbonate (10% sol.)	Potassium Hydroxide (25% sol.)	Potassium Nitrate (10% sol.)	Potassium Sulfate (10% sol.)	Sea Water	Soap Igepal (10% sol.)	Sodium Bicarbonate (10% sol.)	Sodium Bisulfate (10% sol.)	Sodium Chloride (25% sol.)
Fiberglass, Compression Molded	1-1-1	4-4-4	2-4-4	2-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-3-4	1-1-1
Fiberglass, Pultruded	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-3-3	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	2-2-2	2-3-3	1-1-1
Fiberglass, Spray-Up	4-4-4	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Acrylic Clear Sheet	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Acrylic, Molded	4-4-4	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
ABS	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polycarbonate Clear Sheet	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polycarbonate, Silicone Coated	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	2-3-3	3-3-3	1-1-1	1-1-1	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1
Polyester (PBT)	1-1-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Polyester (PBT Glass Reinforced)	1-1-3	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Gasket, Rubber Neoprene, Solid 51%	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1
Gasket, Rubber Neoprene, Sponge	4-4-4	1-1-1	1-1-1	1-1-3	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1
Gasket, Rubber Poron, Polyurethane Sponge	4-4-4	4-4-4	4-4-4	2-2-2	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-2-4	1-1-1
Gasket, Rubber Silicone, Sponge	1-1-1	1-1-2	1-1-1	2-2-2	1-1-1	1-1-1	3-4-4	1-1-1	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1
Gasket, Rubber Viton, Sponge	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-3	2-2-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Gasket, foam-in-place	2-2-2	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-2-3	1-1-1	1-1-1	1-1-1	3-3-3	1-1-1	1-1-1	1-1-1
Aluminum, 5052	1-1-1	4-4-4	4-4-4	4-4-4	2-3-3	4-4-4	4-4-4	4-4-4	3-3-3	3-3-3	2-3-3	2-2-3	4-4-4	2-2-3
Monel	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Steel, Cadmium Plate with Chromate	1-1-1	4-4-4	4-4-4	4-4-4	3-4-4	4-4-4	4-4-4	3-3-3	4-4-4	2-4-4	4-4-4	2-2-3	4-4-4	4-4-4
Steel, Epoxy Powder Coat, Painted	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-2-2
Steel, Enamel, Machinery, Over Prime, Painted	1-1-3	4-4-4	4-4-4	2-4-4	4-4-4	1-1-1	4-4-4	2-4-4	4-4-4	4-4-4	1-4-4	1-1-1	4-4-4	4-4-4
Steel, Galvanized, G-90	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	1-3-3	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4
Steel, Grey Prime, Over Phosphate, Painted	1-1-1	4-4-4	4-4-4	2-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-4	4-4-4	4-4-4
Steel, Polyurethane Painted	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4
Steel, Polyester Powder Painted	1-1-1	4-4-4	4-4-4	1-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4
Steel, Stainless, Type 304	1-1-1	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1
Steel, Stainless, Type 316	1-1-1	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	2-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1

1 Recommended — Unaffected by chemical; no deterioration
2 Satisfactory — Very little effect; reduced aesthetics probable over time
3 Limited use — Chemical attack probable with slow deterioration
4 Not recommended — Severe attack is imminent; rapid deterioration.

Chemical Resistance Test Results (continued)

Hydraulic Oil	Hydrochloric Acid (25% sol.)	Hydrofluoric Acid (40% sol.)	Isopropyl Alcohol	Lacquer Thinner	Liquid Dish Soap (10% sol.)	Magnesium Chloride (10% sol.)	Magnesium Hydroxide (10% sol.)	Mercuric Chloride (10% sol.)	Methylene Chloride	Mineral Spirits	Motor Oil (10 wt.)	Nitric Acid (25% sol.)	Oxalic Acid (10% sol.)	Tested Enclosure Material
1-1-1	4-4-4	4-4-4	1-1-1	1-2-3	1-1-1	1-1-1	1-1-1	2-2-3	1-2-4	1-1-1	1-1-1	4-4	4-4-4	Fiberglass, Compression Molded
1-1-1	2-2-2	4-4-4	1-1-1	1-2-3	1-1-1	1-1-1	1-1-1	2-2-2	4-4-4	1-1-1	1-1-1	3-3-3	4-4-4	Fiberglass, Pultruded
1-1-1	1-2-2	2-2-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-2-3	1-1-2	Fiberglass, Spray-Up
1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	Acrylic Clear Sheet
1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	Acrylic, Molded
1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-2-2	1-1-1	ABS
2-2-2	1-1-1	2-2-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-2-2	1-1-1	3-3-3	1-1-1	Polycarbonate Clear Sheet
1-1-1	1-1-1	1-4-4	4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	3-3-3	1-1-1	Polycarbonate, Silicone Coated
1-1-1	2-2-2	2-2-2	1-1-1	1-3-3	1-1-1	1-1-1	1-1-1	1-2-3	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	Polyester (PBT)
1-1-1	1-1-1	1-3-3	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-3	4-4-4	1-1-1	1-1-1	3-3-3	1-1-1	Polyester (PBT Glass Reinforced)
4-4-4	2-2-2	1-3-3	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-2-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	Gasket, Rubber Neoprene, Solid 51%
4-4-4	3-3-3	4-4-4	1-1-1	4-4-4	1-1-3	1-1-1	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-4-4	Gasket, Rubber Neoprene, Sponge
1-1-1	4-4-4	1-2-2	1-1-1	1-3-4	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4	Gasket, Rubber Poron, Polyurethane Sponge
1-1-1	4-4-4	4-4-4	1-1-1	1-1-4	1-1-1	1-1-1	1-1-1	3-4-4	1-1-4	4-4-4	4-4-4	4-4-4	3-4-4	Gasket, Rubber Silicone, Sponge
1-1-1	1-1-1	1-1-1	1-1-2	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	Gasket, Rubber Viton, Sponge
1-1-1	1-1-1	2-2-2	—	4-4-4	2-2-2	1-1-1	1-1-1	1-2-3	3-3-3	1-2-2	1-1-1	4-4-4	1-1-1	Gasket, foam-in-place
1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	2-2-2	2-3-3	2-3-3	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	Aluminum, 5052
1-1-1	2-3-4	1-2-3	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Monel
1-1-1	4-4-4	4-4-4	1-1-1	1-1-2	1-2-3	3-4-4	3-4-4	4-4-4	1-1-3	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Cadmium Plate with Chromate
1-1-1	4-4-4	4-4-4	1-1-1	1-2-3	1-1-1	1-1-1	1-1-1	4-4-4	2-2-4	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Epoxy Powder Coat, Painted
1-1-1	4-4-4	4-4-4	1-1-1	4-4-4	1-1-4	3-4-4	3-4-4	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Enamel, Machinery, Over Prime, Painted
1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	3-4-4	3-4-4	4-4-4	1-1-2	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Galvanized, G-90
1-1-1	4-4-4	4-4-4	1-1-1	1-4-4	4-4-4	2-4-4	2-4-4	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Grey Prime, Over Phosphate, Painted
1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	3-4-4	3-4-4	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Polyurethane Painted
1-1-1	4-4-4	4-4-4	2-2-2	2-2-3	1-4-4	2-4-4	2-4-4	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	4-4-4	Steel, Polyester Powder Painted
1-1-1	4-4-4	2-2-2	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Steel, Stainless, Type 304
1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	1-2-2	1-1-1	1-1-1	1-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Steel, Stainless, Type 316

Sodium Hydroxide (25% sol.)	Sodium Hypochlorite	Sodium Nitrate (10% sol.)	Sodium Phosphate (10% sol.)	Stoddard Solvent	Sulfuric Acid (25% sol.)	Sulfuric Acid (10% sol.)	Tannic Acid (10% sol.)	Tetrahydrofuran	Toluene	Turpentine	Unleaded Gasoline	Xylene	Zinc Chloride (10% sol.)	Tested Enclosure Material
4-4-4	2-4-4	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	1-1-3	3-4-4	1-1-1	1-1-2	1-1-1	1-1-1	1-1-1	Fiberglass, Compression Molded
4-4-4	3-4-4	1-1-1	1-2-2	1-1-1	2-3-4	1-1-2	1-1-1	4-4-4	1-1-1	1-1-1	1-1-3	1-1-1	1-1-1	Fiberglass, Pultruded
4-4-4	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-2-2	1-1-2	4-4-4	4-4-4	1-1-1	3-3-3	3-4-4	1-1-1	Fiberglass, Spray-Up
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	1-1-1	Acrylic Clear Sheet
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	1-1-1	Acrylic, Molded
1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	1-1-1	ABS
3-3-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-1-4	4-4-4	1-2-2	Polycarbonate Clear Sheet
2-2-4	2-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	1-1-1	Polycarbonate, Silicone Coated
2-2-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	4-4-4	4-4-4	1-1-1	1-1-1	4-4-4	1-1-1	Polyester (PBT)
4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	3-4-4	4-4-4	1-1-1	1-1-1	1-1-2	1-1-1	Polyester (PBT Glass Reinforced)
1-2-3	4-4-4	1-1-1	1-1-1	4-4-4	3-4-4	2-2-2	1-1-1	4-4-4	4-4-4	4-4-4	3-4-4	4-4-4	1-1-1	Gasket, Rubber Neoprene, Solid 51%
4-4-4	4-4-4	1-1-1	1-4-4	4-4-4	1-1-1	3-4-4	1-4-4	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-1-2	Gasket, Rubber Neoprene, Sponge
1-2-2	4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-2-3	4-4-4	4-4-4	4-4-4	2-3-4	1-1-1	2-3-4	1-4-4	Gasket, Rubber Poron, Polyurethane Sponge
4-4-4	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	4-4-4	3-3-4	4-4-4	4-4-4	2-3-4	4-4-4	3-4-4	1-1-3	Gasket, Rubber Silicone, Sponge
1-2-2	1-1-1	1-1-1	1-1-1	4-4-4	1-1-1	4-4-4	3-3-4	4-4-4	4-4-4	2-3-4	4-4-4	3-4-4	1-1-3	Gasket, Rubber Viton, Sponge
1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-2	1-1-1	2-2-3	3-3-3	3-3-3	1-2-2	1-2-2	3-3-3	1-1-1	Gasket, foam-in-place
4-4-4	4-4-4	1-1-2	3-3-3	1-1-1	4-4-4	4-4-4	2-3-4	1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	2-3-3	Aluminum, 5052
1-1-1	1-2-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-2-2	1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Monel
4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	1-4-4	1-1-1	1-2-3	1-1-1	1-1-1	1-4-4	Steel, Cadmium Plate with Chromate
1-4-4	4-4-4	1-1-1	1-1-1	1-1-1	2-3-4	1-4-4	1-1-1	4-4-4	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Steel, Epoxy Powder Coat, Painted
4-4-4	4-4-4	2-2-2	2-2-3	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	1-3-4	1-1-2	1-1-1	1-1-4	1-1-1	Steel, Enamel, Machinery, Over Prime, Painted
4-4-4	4-4-4	4-4-4	4-4-4	1-1-1	4-4-4	4-4-4	4-4-4	1-4-4	1-1-1	2-2-3	1-1-1	1-1-1	3-4-4	Steel, Galvanized, G-90
4-4-4	4-4-4	1-1-4	2-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	1-2-2	1-2-3	1-1-1	1-1-1	1-4-4	Steel, Grey Prime, Over Phosphate, Painted
4-4-4	4-4-4	1-4-4	2-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	4-4-4	1-4-4	1-4-4	4-4-4	1-4-4	Steel, Polyurethane Painted
4-4-4	4-4-4	3-4-4	2-4-4	1-1-1	4-4-4	4-4-4	4-4-4	4-4-4	2-2-3	1-1-2	2-2-2	2-2-3	1-1-1	Steel, Polyester Powder Painted
2-2-2	1-2-2	1-1-1	1-1-2	1-1-1	1-4-4	1-1-1	2-2-2	1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Steel, Stainless, Type 304
1-2-2	1-1-3	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	2-2-2	1-1-2	1-1-1	1-1-1	1-1-1	1-1-1	1-1-1	Steel, Stainless, Type 316

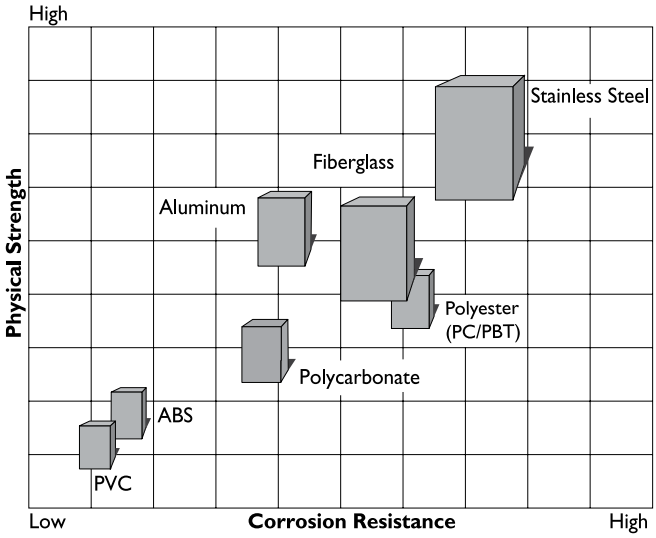
Each chemical is also coded according to class.
The following code is located at the top of each chemical column.

Solvents and organics

Alkalis and oxidizers

Acids and neutral salts

STRENGTH/CORROSION RESISTANCE OF ENCLOSURE MATERIALS



Specifying Enclosure Materials
While some enclosure materials offer exceptional corrosion resistance, they may not provide the physical strength required to support internal components. This graph plots primary enclosure materials on a grid of physical strength and corrosion resistance.

SHEET METAL THICKNESS

Steel and Stainless Steel (Less masking)

Gauge	Agency Listed Minimum (in.)	Agency Listed Minimum (mm)	Agency Listed Maximum (in.)	Agency Listed Maximum (mm)
22	.026	.66	.030	.76
20	.032	.81	.036	.91
18	.042	1.07	.046	1.17
16 Comm Steel	.053	1.35	.061	1.55
16 for Drawing	.057	1.45	.061	1.55
14	.067	1.70	.077	1.96
12	.093	2.36	.105	2.67
10	.123	3.12	.135	3.43
7	.172	4.37	.184	4.67
3/16	.187	4.75	—	—
3/8	.365	9.27	—	—

Galvanized Steel (Includes zinc coating)

Gauge	Agency Listed Minimum (in.)	Agency Listed Minimum (mm)	Agency Listed Maximum (in.)	Agency Listed Maximum (mm)
18	.045	1.14	.055	1.40
16	.056	1.42	.069	1.75
14	.070	1.78	.086	2.19
12	.097	2.46	.113	2.87
10	.126	3.20	.143	3.63

Aluminum (Less masking)

ANSI Standard Thickness (in.)	ANSI Standard Thickness (mm)	A.A. Minimum (in.)	A.A. Minimum (mm)	Agency Listed Minimum (in.)[a]	Agency Listed Minimum (mm)[a]	Agency Listed Maximum (in.)	Agency Listed Maximum (mm)
.063	1.60	.058	1.47	.058	1.47	.068	1.73
.080	2.03	.074	1.88	.075	1.90	.086	2.18
.090	2.29	.084	2.13	—	—	.096	2.44
.100	2.54	.093	2.36	.095	2.41	.107	2.72
.125	3.18	.118	3.00	.122	3.10	.132	3.35
.160	4.06	.149	3.78	.153	3.89	.171	4.34
.190	4.83	.179	4.55	—	—	.201	5.11

[a] Agency listed minimum is only required for enclosures designed to meet thickness requirements of UL508A and/or CSA C22.2 No. 14.

A.A. = Aluminum Association

Mechanical/Physical Properties Non-Metallic Materials

Property	Flexural Strength	Notched Izod Impact	Water Absorption (24 hrs.)	Tensile Strength	Specific Gravity	Flammability Rating	Heat Deflection	Service Temp Range	Thermal Conductivity	Dielectric Strength	Arc Resistance
ASTM Test Method	D-790	D-256	D-570	D-638	D-792	UL94	D-648	—	C-177	D-149	D-495
Value	PSI	Ft Lb/In	%	PSI	—	—	°F / °C 264 PSI	°F / °C	BTU In/Hr Ft2 °F	VPM	Seconds
TEST MATERIAL											
ABS (Bulletin Q41)	9,400	2.8	0.27	6,500	1.05	94HB	203/95	-4 F/-20 C 149 F/65 C	1.18	400	60-120
Acrylic, Sheet (instrumentation windows)	16,000	0.4	0.20	10,500	1.19	94HB	205/96	-31 F/-35 C 180 F/82 C	1.30	500	No Tracking
Fiberglass, Spray-up (Bulletin A17)	29,250	> 12.0	0.25	17,500	1.65 Approx.	94V-0	428/220	-31 F/-35 C 266 F/130 C	—	—	—
Fiberglass, Compression (Bulletin A17, A48, A50 and UX1)	18,000	12.0	0.30	8,000	1.77	94-5V	395/202	-31 F/-35 C 266 F/130 C	2.0	375	180
Polyamide (Nylon) (cover screws and hinges)	7,900	3.0	1.00	4,300	1.14	94HB	175/80	-22 F/-30 C 212 F/100 C	1.74	430	60-120
Polycarbonate, Glass Reinforced, Bodies (Bulletin Q41)	18,000	2.0	0.13	10,100	1.27	94V-1	275/135	-31 F/-35 C 248 F/120 C	1.60	450	<60
Polycarbonate, Opaque and Clear Covers (Bulletin Q41)	14,400	14.0	0.15	9,400	1.20	94V-0	275/135	-31 F/-35 C 248 F/120 C	1.46	430	<60
Polyester, Glass Reinforced (latches and hinges)	19,000	4.3	0.08	12,000	1.47	94HB	374/190	-31 F/-35 C 266 F/130 C	—	—	—
Polyester, Non-Glass Reinforced	11,600	2.06 @ -22 F 15.0 @ 73 F	0.10	7,690	1.30	94-5V	175/80	-31 F/-35 C 246 F/118 C	—	—	—

Hoffman offers no guarantee or warranty as to the applicability of this chart for any particular situation as actual conditions and methods of use of our product are beyond our control.
UL 746C requires enclosures either be constructed from a 5VA rated material or pass a 5-inch flame test performed on the end product. Many materials not rated 5VA will pass the end product 5-inch flame test.

The following chart is an aid to using our non-metallic products. This chart is general in nature and not intended to apply to any particular situation. The prospective user must determine the application of our product based upon an environment's individual characteristics. **Hoffman offers no guarantee or warranty as to the applicability of this chart for any particular situation as actual conditions and methods of use of our product are beyond our control.**

[To further assist in the identification of acids or alkalis the following pH values can be used: values of 0 to 7 indicate acids and values of 7 to 14 indicate alkalis.]

Environmental Conditions Non-Metallic Materials

Enclosure Material	Weak Acids	Strong Acids	Weak Alkalis	Strong Alkalis	Organic Solvents	Outdoor Weatherability	Service Temperature Range[a]
ABS (Bulletin Q41)	Good	Good	Good	Good	Not Recommended	Not Recommended	-4 F to 149 F 20 C to 65 C
Fiberglass (spray-up) (Bulletin A17)	Excellent	Good	Good	Fair	Excellent	Excellent	-31 F to 266 F 35 C to 130 C
Fiberglass (compression) (Bulletin A48, A50, and UX1)	Excellent	Good	Good	Fair	Excellent	Excellent	-31 F to 266 F 35 C to 130 C
Polycarbonate (Bulletin Q41)	Excellent	Good	Fair	Not Recommended	Not Recommended	Good	-31 F to 248 F 35 C to 120 C

a Special gasket material is required if the temperature exceeds 150 F (66 C).

Selecting and Specifying Materials and Paint Finishes Metals

Characteristics of Various Materials	Relative Cost	Suggested Application
Hot-Rolled Pickled and Oiled Steel Sheets (ASTM A569) A low-carbon, hot-finished steel produced by passing bar stock, at a temperature above the recrystalization temperature, between a set of rolls. Scale has been removed by means of a hot, weak sulfuric acid bath, after which an oil film is applied.	Low	General indoor and outdoor use after a suitable finish has been applied to protect against corrosion.
Cold-Rolled Steel (ASTM A366) A low-carbon, cold-finished steel produced by passing bar stock through a set of rolls.	Low	General indoor and outdoor use after a suitable finish has been applied to protect against corrosion.
Galvanized Steel (ASTM A653) Steel with a zinc coating to provide corrosion resistance. The most common method of applying the zinc coating is hot-dip galvanizing. Other optional methods include electrodeposition and metal spraying. Galvanizing provides protection against corrosion by serving as a sacrificial barrier and providing cathodic protection at sheared edges.	Low to Moderate	Indoor or outdoor use in neutral pH (pH is a measurement of the degree of acidity or alkalinity of a solution: pH values from 0 to 7 indicate acidity, and pH values from 7 to 14 indicate alkalinity). Resists oil, gas, glycerine, dichromates, borates and silicates. Most frequent application is outdoor including seacoast atmospheres. Additional finishes may be applied to improve corrosion resistance.
304 Stainless Steel (18-8 Stainless Steel) Containing 18 percent chromium and 8 percent nickel, it is often referred to as 18-8. It is the most commonly used nickel based austenitic alloy in the stainless family. Excellent corrosion-resistance properties and ease of fabrication contribute to its popularity. 304 stainless steel provides good corrosion resistance to many chemicals, including moderately aggressive organic acids.	Moderate	Indoor and outdoor use. Ideally suited for use in food processing areas, dairies, breweries or any wet area. Also works well in areas where caustic elements or alkalis are present.
316 and 316L Stainless Steel Contains molybdenum (2%) which provides more corrosion resistance than chromium-nickel (18-8) stainless steels in most applications. Exceptions include highly oxidizing acids, such as nitric acid which attacks the molybdenum. The 316L low-carbon version has less carbon (.03 percent vs .08 percent) than standard 316 and provides better corrosion resistance to agents that attack carbon. The superior corrosion resistance provided by molybdenum makes 316 a preferred material choice for chloride and marine environments.	Moderate to High	Indoor or outdoor use in almost any environment. These stainless steels are the most corrosion-resistant metal materials used by Hoffman. Preferred material choice for marine environments.
5052 Aluminum A lightweight metal that has a protective oxide layer which shields its surface from most corrosive elements. 5052 is the strongest non-heat-treatable aluminum alloy.	Moderate	Indoor or outdoor use, particularly in marine environments. Also an excellent choice for enclosures exposed to solvents, petrochemicals, some acids, most sulfates and nitrates.
Monel A high nickel-base alloy characterized by good strength and good resistance to heat and corrosion.	High	Frequently specified for marine and chemical plant applications, Hoffman uses monel hardware on many of its non-metallic enclosures.
Galvannealed Steel (ASTM A653) Steel with zinc on both sides specifically designed to be used in the painted condition. Typically hot-dipped to A40 and A60 designations. Features include: • Corrosion resistance • Excellent paintability • Easy weldability • The combined paint/galvannealed coating offers resistance to peeling and/or blistering with properly selected paints and primers.	Low to Moderate	Indoor or outdoor use where a painted finish is important. Used in the automotive industry.

Selecting and Specifying Materials and Paint Finishes Composite Materials

Characteristics of Various Materials	Relative Cost	Suggested Application
Polycarbonate A high-performance engineering thermoplastic resin that is processed by injection molding or sheet extrusion for Hoffman applications. Polycarbonate exhibits high impact resistance, a wide range of temperature limits, good dimensional stability, good electrical properties, and the clear polycarbonate has very good transparency. Hoffman uses grades that are fire retardant and that have been silicone coated to improve scratch resistance and UV exposure. Glass fiber reinforced grades provide increased stiffness and higher service temperature.	Low to Moderate	Hoffman uses glass fiber reinforced polycarbonate for bodies and mounting feet on the PC versions of Bulletin Q41. Unreinforced opaque and transparent is used for covers on the PC version of Bulletin Q41. Transparent polycarbonate is also used for clear covers on the AB version of Bulletin Q41, for windows in window kits and as the window in most bonded-in window enclosure applications. Polycarbonate is excellent for all indoor and outdoor applications with the exception of environments that contain strong alkalis, acids or organic solvents. Polycarbonate has a service temperature range of 31 F (-0.55 C) to 180 F (82 C).
Polyester (PBT and PBT/PC Blend) A very high-performing engineering thermoplastic and thermoplastic alloy that is processed by injection molding. Polyester exhibits high impact resistance, a wide range of temperature limits, good dimensional stability, excellent electrical properties, and chemical and moisture resistances. Hoffman uses several modified grades for enhanced material performance. Glass reinforced PBT improves stiffness and has a higher service temperature. The polyester blended with polycarbonate provides improved weatherability and impact resistance.	Moderate	Glass fiber reinforced polyester is used for latches and hinges on Bulletins A17, A48, A50 and ULTRX® enclosures. Polyester is recommended for indoor and outdoor use, although slight yellowing in color may occur in direct sunlight. A blended polyester/polycarbonate is used for POLYPRO Enclosures. This material has the highest performance of all thermoplastic materials and can be used in most environments that contain strong alkalis, acids or organic solvents. High temperature and high humidity applications are not recommended. Polyester has a service temperature range of -15 F (-27 C) to 185 F (85 C).
Fiberglass Thermoset polyester reinforced with glass fiber is our highest overall performance engineering composite resin. Fiberglass grades used by Hoffman are processed by transfer molding, injection compression, compression molding, pultrusion, RTM and open molding. This material provides the highest level of flame resistance of the composite materials used by Hoffman. It exhibits good rigidity, high impact strength, a superior temperature range capability, dimensional stability and electrical properties. Items molded using the process of transfer molding, injection compression, compression and open molding all provide exceptional moisture and chemical resistance.	Low to Moderate	Hoffman uses the compression-molding process for Bulletins F25 and F30 wireway flanges, and for the collars, bodies, covers and doors on Bulletins A48, A50, ULTRX and a portion of the A17 enclosures. All Bulletin A17 doors, backs 36 x 30 inch and smaller, and bodies 12-in. deep or less are compression molded. All Bulletin A17 bodies 12-in. deep or greater and 36 x 36 in. and larger, plus free-stands, are open molded. Doors for these enclosures are molded using the RTM process to provide greater consistency. The pultrusion process is used for bodies and covers on Bulletins F25 and F30 wireway. Fiberglass is recommended for indoor or outdoor use and is ideally suited for environments having extreme temperatures, a high salt concentration, strong alkalis, acids or organic solvents. It is also recommended for corrosive areas or environments that are continuously wet with one exception. Components molded using the pultrusion process should not be used in areas where submersion can occur. Fiberglass is frequently specified for use in petrochemical plants, sewage processing plants, food processing areas and plating facilities. Fiberglass has a service temperature range of 31 F (-0.55 C) to 266 F (130 C).
ABS and ABS/PC Blend An engineered thermoplastic and thermoplastic alloy that utilizes the process of injection molding. Hoffman uses grades that exhibit high impact resistance, a good temperature range, dimensional stability and electrical properties. Flame-retardant characteristics are somewhat less than other composite materials but meet application requirements. ABS and ABS blends have very good chemical resistance to both alkalis and acids. ABS is not recommended for use in environments where organic solvents are present.	Low	Hoffman uses ABS in the ABS version of Bulletin Q41 enclosures, DataCom racks and accessories, and many other accessories such as print pockets and fan grilles. ABS is a low-cost alternative to polycarbonate and provides a very good appearance, a high level of flexibility and corrosion resistance. ABS is recommended for indoor use in corrosive environments that have a moderate to high alkali and acid presence. ABS has a service temperature range of 0 F (-18 C) to 125 F (52 C).
Acrylic This engineered thermoplastic resin is processed by injection molding or sheet extrusion. Typical use by Hoffman is as a sheet extrusion. Clear and tinted acrylic windows provide a low-cost alternative to polycarbonate. Acrylic material has good weatherability, better scratch resistance than uncoated polycarbonate, and greater chemical resistance to alkalis, acids and organic solvents. When deciding to use an acrylic in place of a polycarbonate, consideration should be given to its lower flame retardant and impact resistance values.	Low	Acrylic material is recommended for indoor and outdoor use, although when subjected to prolonged direct sunlight, slight yellowing may occur. Hoffman uses for acrylic include clear and tinted windows, and DataCom and PROLINE cabinet window kits.
Polyamide (Nylon) A high-performance engineering thermoplastic that is processed by injection molding, Polyamide exhibits high impact resistance, wide temperature limits and excellent wear resistance. Polyamide has good chemical resistance to alkalis and organic solvents but is not recommended for use in environments where strong acids are present. Hoffman uses grades modified for low water absorption and some glass fiber reinforced grades for increased stiffness and strength.	Low to Moderate	Polyamide is used for cover screws and hinges on Bulletin Q41 enclosures. It is also used for accessories, such as hinges on ACCESSPLUS, feet on PROLINE and latch components on many models that require a material that provides good impact and wear resistance.

Paint Finishes on Standard Hoffman Steel Enclosures

Hoffman steel enclosures are painted with one of the following finishes:

- Polyester powder coating is electrostatically applied to all inside and outside surfaces. The powder coating is then baked at high temperatures to bond the coating to the enclosure surface.
- Alkyd liquid enamel coating is used on some wall-mount enclosures. The alkyd paint is baked to cure.

Hoffman polyester powder coatings and alkyd liquid enamel coatings are finish coats. *Recoating is not necessary to meet UL or NEMA rating requirements.*

Recoating powder and liquid finishes is possible using the instructions furnished on this page.

Standard Finishes

Standard colors and finishes offered on Hoffman products are suited to match those used in most installations. Frequently requested color options are available with minimal additional lead-time. We also offer more than 100 custom paint colors and textures.

Custom Finishes

Custom colors and finishes also are available on Hoffman products. Our advanced paint systems and flexible manufacturing lines enable us to deliver custom orders with minimal additional lead-time.

Repainting Hoffman Standard Finishes

Confirm with your paint manufacturer that the paint you will be applying is compatible with the factory-applied paint on the Hoffman product. Refer to the product pages in this catalog for information on the specific paint finish. Contact your local Hoffman distributor or authorized sales representative if you have questions.

Repainting alkyd enamel paints

For best adhesion results, correct surface preparation prior to repainting is essential.

- Thoroughly sand all surfaces with 240 grit sandpaper. After sanding, wipe all surfaces with a solvent containing ketone (for example, the generic solvent MIBK, or brand name solvents such as Sherwin-Williams R7K69 and PPG Industries 97-725).
- Next, apply the finish coat. Avoid heavy coats. To prevent discoloration of alkyd finishes, do not bake at temperatures exceeding 250 F.
- Finally, allow the paint to cure properly for optimum adhesion and hardness. Consult the paint manufacturer for cure rates and temperatures.

Repainting polyester powder paints:

Always consult your paint manufacturer for specific recoating and curing instructions. Test the new paint on an inconspicuous area prior to use.

All Hoffman standard polyester powder coated finishes can be repainted with air dry or baked paints.

Some types of paint adhere better than others when applied over polyester powder. The following finishes exhibit very good adhesion properties.

- Two-component epoxies
- Some two-component polyurethanes
- Alkyd baking enamels (Do not bake at temperatures exceeding 150 F.)

For best adhesion results, correct surface preparation prior to repainting is essential.

- Thoroughly sand all enclosure surfaces with 180 grit sandpaper. To minimize sanding marks, finish sanding with 220 or 240 grit sandpaper. Wet-wipe all surfaces with a solvent to remove contaminants.

If using air-dry touch-up paint supplied in aerosol cans, apply two or three medium to light coats of paint, allowing two or three minutes flash-off between coats. Allow paint to cure adequately prior to testing for adhesion.

Selecting a Non-Standard Paint for Your Enclosure

In order to select the best paint for your enclosure, you must first establish your criteria and their order of importance. Paints basically perform two functions: protection and decoration. No one paint formulation does it all.

Paint formulators frequently wish to know the exposure conditions as a first step. They subdivide into three categories:

- Severe conditions including total immersion in chemicals or salt water, coastal situations, areas of high industrial pollution and areas close to chemical processing plants.
- Moderate conditions are found in outdoor exposure to heavy rainfall and continuous humidity in light industrial and urban conditions, rural areas and inland areas more than two miles from industrial districts and coastal areas.
- Mild conditions are experienced in interiors subject to condensation, as well as interiors where there is a pollution source. Very mild conditions are found in warm, dry interiors not subject to condensation or pollution.

Besides exposure conditions pertaining to corrosion and weathering, paint formulators are also concerned with whether your enclosure will be exposed to bright sunlight and high temperatures.

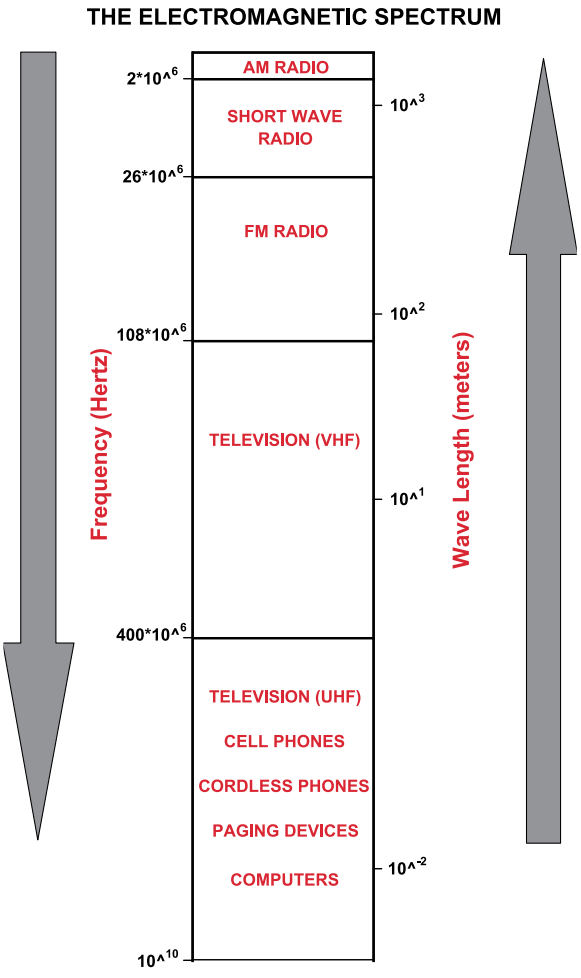
Selections Tips

Refer to Hoffman's Finish Chart for readily available finishes. The following points aid in selecting the best finish for your enclosure:

- Textured paints, such as hammertones and spatter coatings, can help reduce (but not eliminate) costly metal preparation in addition to providing an attractive finish. Polyester powder paint is standard.
- Dark-colored interiors and light (reflective) exteriors will help dissipate heat from within the enclosure.
- In general, for moderate or extreme exposure conditions, a rust-inhibiting primer followed by an epoxy or polyurethane top coat will provide superior protection.
- Epoxy paints provide excellent exposure protection but rapidly lose color and gloss through chalking.
- Silicone resin paints are superior for high heat exposure.
- Alkyd enamels are an excellent choice for mild exposure conditions when cost is a consideration.

ELECTROMAGNETIC COMPATIBILITY OVERVIEW

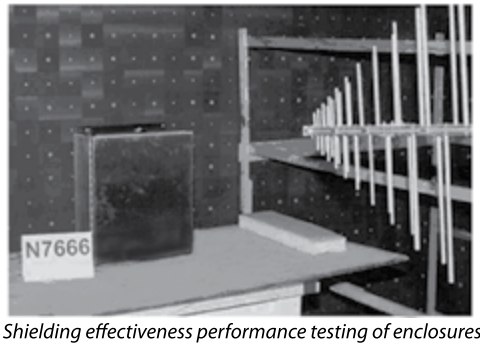
Standards governing electromagnetic compatibility commonly refer to EMI/RFI, or electromagnetic interference/radio frequency interference. Such interference is caused by stray voltages and/or currents coupling between electronic systems creating undesirable effects. These undesirable effects can vary between a brief annoyance, such as a vacuum cleaner disturbing the family television viewing, to more serious situations, such as a cellular phone interfering with the controls of a machine tool, or a noisy power supply interfering with the proper operation of an industrial robot. With the increased emphasis on electronic technology, electromagnetic interference/radio frequency interference is a growing concern.



ELECTROMAGNETIC EMISSIONS REGULATION

In the U.S. the Federal Communications Commission (FCC) regulates the amount of acceptable EMI/RFI emissions a product can produce. In Europe the EMC directives have regulations for emissions and immunity class testing of electrical products. Enclosures used to house electrical products or systems are required to comply with the above mentioned directives, although empty enclosures are not required to meet any regulatory requirements.
Enclosure EMI/RFI performance is frequently expressed as shielding effectiveness over a range of frequencies. Several standards address test methods for determining enclosure EMI/RFI performance.

STANDARDS FOR MEASURING SHIELDING EFFECTIVENESS OF ENCLOSURES



Shielding effectiveness performance testing of enclosures to MIL-STD-285, IEEE 299, and VG 95373

MIL-STD-285: Attenuation Measurements for Enclosures, Electromagnetic Shielding, for Electronic Test Purposes
IEEE-STD-299: Method of Measuring the Effectiveness of the Electromagnetic Shielding of Enclosures
ASTM E1851: Test Method for Measuring the Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures
ASTM D4935: Test Method for Measuring the Electromagnetic Shielding Effectiveness of Planar Materials
VG 95373-15: Test Methods for Coupling and Screening

GLOSSARY

Attenuation in terms of EMC is the reduction of an electromagnetic field across a shield (usually expressed in decibels (dB) at a given frequency).

Cutoff Frequency is the maximum possible frequency beyond which the waveguide will no longer shield EMI.

Decibel (dB) in terms of EMC is a dimensionless logarithmic ratio used as a manageable value of measurement for the reduction or attenuation of electromagnetic interference.

Electromagnetic Compatibility (EMC) is the technology of shielding or preventing electromagnetic interference (EMI).

Electromagnetic Emission is the energy radiated to the environment from an electronic product.

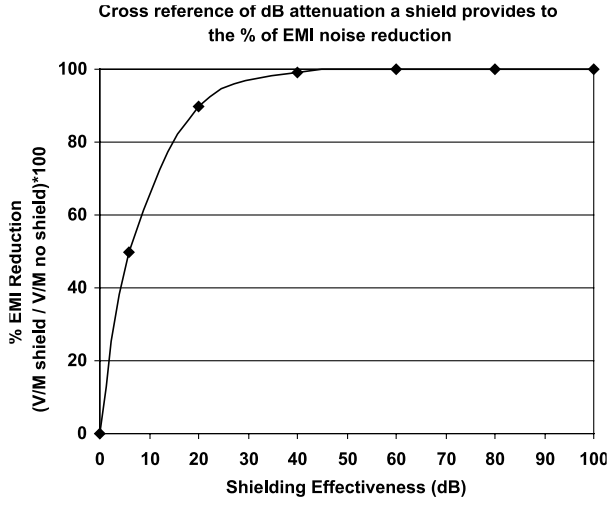
Electromagnetic Immunity is the ability of an electronic product to function in its environment in the presence of electromagnetic radiation.

Electromagnetic Interference (EMI) occurs when unintentional electromagnetic signals from a system or device cause undesired effects or malfunction in another system or device. Radio Frequency Interference (RFI) is a type of EMI that extends over the 1kHz - 10 GHz frequency band.

EO (V/m) is the measure of field strength without the shield; EI (V/m) is the field strength with the shield in place.

Shielding Effectiveness (SE) is the measure of protection provided by an enclosure against electromagnetic interference at a specific frequency. It is generally expressed in decibels (dB), where SE = 20 Log (EO/EI).

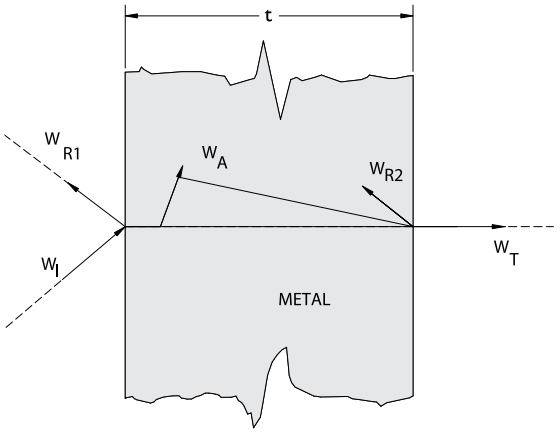
Shielding Effectiveness (dB)	EMI Blocked (%)	E (v/m no shield): E (v/m shield)
6	50	2:1
20	90	10:1
40	99	100:1
60	99.9	1000:1
80	99.99	10,000:1
100	99.999	100,000:1



Graph of shielding effectiveness to percentage of EMI noise blocked

GENERAL THEORY

RFI/EMI electromagnetic radiation is made of both electric (E) and magnetic (H) fields. High-frequency radiation tends to have a large electric field component; low-frequency radiation tends to have a large magnetic field component. High current devices produce magnetic fields that could cause interference problems.
Most high frequency wave energy is reflected off a conductive wall. In the low frequency range, however, the magnetic waves can penetrate the shield. For low frequency magnetic-dominant noise, therefore, the absorption characteristics of the shield become much more important. The absorption characteristics are related to the magnetic permeability and wall thickness of the shielding material. See drawing *Wave energy propagation through a single conductive sheet.*



Wave energy propagation through a single conductive sheet
WI = WRI + WA + WR2 + WT, where
I = Incident Electromagnetic Energy
R = Reflected Energy
A = Absorbed Energy
T = Transmitted Energy

EMC - ELECTRICAL ENCLOSURES

EMC requirements sometimes can be met with standard metal enclosures. Standard metal enclosures without EMC provisions can attenuate about 20 dB at 1 GHz, depending on the type of cover overlap. For critical EMC requirements, specially designed Hoffman EMC enclosures can provide attenuation levels of 40 dB to 100 dB and vary in ingress protection and style.
Conductive sealing around the door seams is the primary difference between a standard and an EMC enclosure. Depending on the NEMA Type rating and flange style, either a conductive gasket or finger stock is used. Because conductive gasket effectiveness relies on metal-to-metal contact, the selected gasket material must be compatible with the mating surface of the enclosure to minimize galvanic corrosion. To maintain peak performance, periodic gasket cleaning is recommended. At the same time, inspect the seams for oxidation and gasket compression.

PENETRATIONS FOR VENTILATION AND SIGNAL INPUT/OUTPUT

Unshielded conductor entry into an enclosure will act as an antenna that will carry EMI through the enclosure wall. Therefore, all openings into the enclosure, such as cable entry, device penetration, viewing windows and ventilation openings must be managed to minimize the attenuation loss they will cause.
One means of providing access through an enclosure wall while maintaining good attenuation performance is with a wave guide beyond the cutoff frequency. These are tubular openings ideal for ventilation or fiber cable entry. EMC vent kits also are available as standard products.

Electrical Resistivity and Magnetic Permeability for Enclosure Materials

Material	Electrical Resistivity	Relative Magnetic Permeability
Mild Steel	159 E-7	2.0E3
Stainless Steel (304, 316)	7.2 E-5	1.008
Aluminum	49 E-7	1.002

Notes

HEAT DISSIPATION IN SEALED ELECTRICAL ENCLOSURES

The accumulation of heat in an enclosure is potentially damaging to electrical and electronic devices. Overheating can shorten the life expectancy of costly electrical components or lead to catastrophic failure.

ENCLOSURE MATERIALS

The following discussion applies to gasketed and unventilated enclosures. Higher temperature rises can be expected with unfinished aluminum and unfinished stainless steel enclosures due to their material's less efficient radiant heat transfer. Non-metallic enclosures have similar heat transfer characteristics to painted metallic enclosures, so the graph can be used directly despite the difference in material.

ENCLOSURE SURFACE AREA

The physical size of the enclosure is the primary factor in determining its ability to dissipate heat. The larger the surface area of the enclosure, the lower the temperature rise due to the heat generated within it.
To determine the surface area of an enclosure in square feet, use the following equation:
Surface Area = 2[(A x B) + (A x C) + (B x C)] ÷ 144
where the enclosure size is A x B x C in inches.
This equation includes all six surfaces of the enclosure. If any surface is not available for transferring heat (for example, an enclosure surface mounted against a wall), that surface's area should be subtracted. *Note: Enclosure volume cannot be used in place of surface area.*

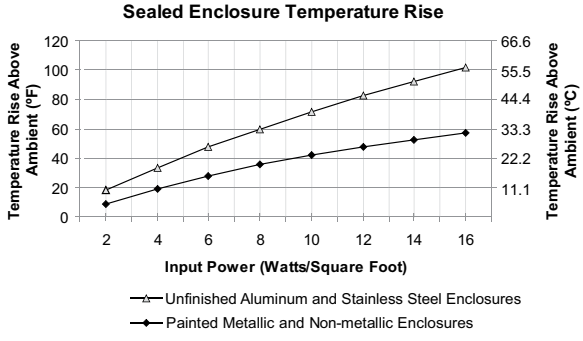
ENCLOSURE HEAT INPUT

For any temperature rise calculation, the heat generated within the enclosure must be known. This information can be obtained from the supplier of the components mounted in the enclosure.

ENCLOSURE TEMPERATURE RISE (ΔT)

Research has shown for every 18 F (10 C) rise above normal room temperature 72 - 75 F (22 - 24 C), the reliability of electronic components is cut in half.

The temperature rise illustrated by the curves in the Sealed Enclosure Temperature Rise graph is the temperature difference between the air inside a non-ventilated and non-cooled enclosure and the ambient air outside the enclosure. This value is described in the graph as a function of input power in watts per square foot. In order to predict the temperature inside the enclosure, the temperature rise indicated in the graph must be added to the ambient temperature where the enclosure is located.



DETERMINING TEMPERATURE RISE

The temperature rise inside a sealed cabinet without forced ventilation can be approximated as follows.
First calculate the surface area of the enclosure and, from the expected heat load and the surface area, determine the heat input power in watts/ft.^{2}
Then the expected temperature rise can be read from the Sealed Enclosure Temperature Rise graph. Find where the input power intersects the line for the enclosure material and read the approximate expected temperature rise at the left.
Example:
What is the temperature rise that can be expected from a 48 x 36 x 16 in. painted steel enclosure with 300 W of heat dissipated within it?
Solution:
Surface Area = 2[(48 x 36) + (48 x 16) + (36 x 16)] ÷ 144 = 42 ft.^{2}
Input Power = 300 ÷ 42= 7.1 W/ft.^{2}
From the Sealed Enclosure Temperature Rise graph:
Temperature Rise = approximately 30 F (16.7 C)

SAFETY MARGINS

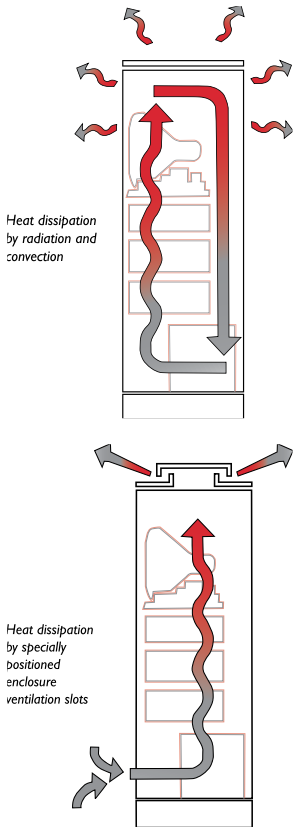
The graph provides only an approximation of temperature rise. Actual temperature rise will vary due to enclosure layout, internal fan use, air movement in the vicinity of the enclosure, and other factors. A safety margin should be used in critical applications. A safety margin of 25% is recommended.

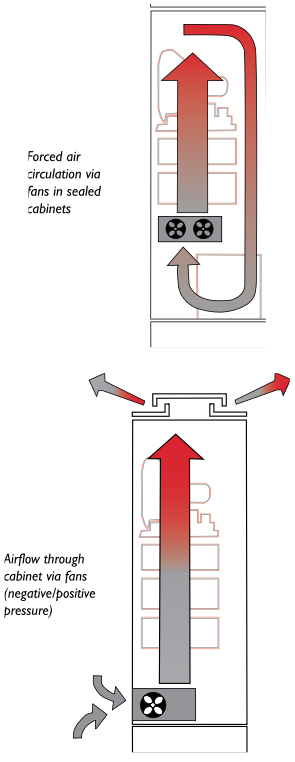
OUTDOOR APPLICATIONS

In outdoor applications where an enclosure is exposed to the sun, the temperature inside the enclosure can rise significantly above the estimates calculated. See the Solar Heat Gain section for further technical information.

CIRCULATING FANS

The use of circulating fans in an enclosure will improve heat dissipation by as much as 10 percent. Circulating fans are most commonly employed to eliminate hot spots inside an enclosure. The Sealed Enclosure Temperature Rise graph approximates the "average" temperature rise inside an enclosure. However, the temperature in the vicinity of a critical component can be much higher if it is producing a significant portion of the heat in the enclosure or if it is located near a large heat producing device. An internal circulating fan eliminates the resulting hot spots by mixing the air inside the enclosure.





COOLING OPTIONS AVAILABLE

Hoffman offers a full line of enclosure cooling products to meet the unique needs of many applications. These products include fans for circulation and ventilation as well as heat exchangers and air conditioners for closed loop cooling. Hoffman Authorized Distributors, Representatives, and factory technical applications support personnel are qualified to assist you in meeting your cooling requirements.

GLOSSARY

BTU/hr. = British Thermal Units/hour. One BTU is the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.
Watts (W) = The thermal (heat) load in the enclosure is measured in watts. One watt = 3.413 BTU/hr.
CFM = Airflow in cubic feet per minute ($ft.^3$/min.)
ΔT = Change in temperature (1.8 ΔT F = 1.0 ΔT C)
°F = Degrees Fahrenheit
°C = Degrees Celsius

SOLAR HEAT GAIN

When evaluating the thermal management needs of outdoor electrical enclosures, solar heat gain must be considered. Variables that affect the enclosure's internal temperature rise include the amount of solar exposure, enclosure color and material type, highest sustained atmospheric temperature, heat build-up from internal components and heat reflectance from the surrounding environment.

EXPOSURE TO SOLAR RADIATION

Over much of the United States, the approximate peak values of solar radiation striking the Earth's surface is 97 $W/ft.^2$ and the ambient air temperature can reach 104 F. Altitude, humidity and air pollution have an impact on these values, even more so than the location's latitude. In the high, dry climates of the southwest, solar radiation values of 111 $W/ft.^2$ and air temperatures greater than 104 F can be reached.

The extreme conditions the enclosure will be exposed to should be identified. If the internal enclosure temperature is greater than the outdoor (ambient) temperature, wind will provide greater heat transfer and thus cool the enclosure. But, because the presence of wind cannot be guaranteed, it is usually not taken into account when establishing a worst-case evaluation.

EFFECT OF SURROUNDING LOCATION

Reflection of solar energy from the foreground and surrounding surfaces can impact the total amount of radiant exposure by as much as 30 percent.

EFFECT OF ENCLOSURE COLOR AND FINISH

The percent of solar energy absorbed by the enclosure depends on surface color, finish and texture. Absorption values of the finish will increase with age.

STANDARDIZED TEST EVALUATION

Telcordia NEBS GR-487 provides a test procedure for evaluating the solar load on electrical/electronic enclosures. The test is run with the internal electronics on, in an environmentally controlled room, and three sides of the enclosure are illuminated uniformly with controlled banks of lights to a measured surface radiant value of 70 W/ft.^{2} The temperature rise inside the enclosure above ambient is added to 115 F (46 C). This temperature total must not exceed the lowest-rated component within the enclosure.

EVALUATION OF SOLAR HEAT GAIN

To evaluate the heat load on an enclosure, you must take into account:

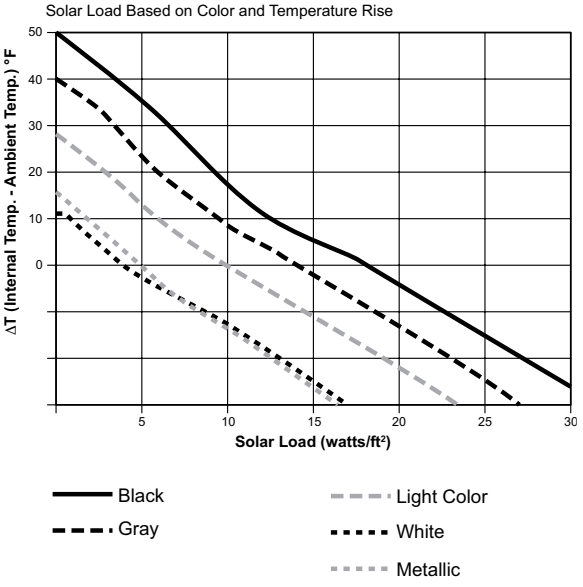
- Total surface area of the enclosure
- Color of the enclosure
- Internal heat load
- Maximum allowable internal temperature
- Maximum ambient temperature
- Solar load

Examples:

1. What amount of heat energy must be removed from a 24 x 20 x 12 (surface area = 14 ft.^{2}) ANSI 61 gray enclosure located outdoors and without any heat dissipated internally, to maintain the enclosure temperature equal to the ambient (temperature rise = 0 degrees)? From the chart below, at 0 F temperature rise we find the solar load is approximately 14 W/ft.^{2} (14 ft.^{2} x 14 W/ft.^{2} = 196 W). This is the heat energy that must be removed to maintain the enclosure temperature at ambient.

2. If the same enclosure has internal equipment dissipating 200 W of heat, what is the amount of heat energy that must be removed to maintain the enclosure at a temperature rise of 20 F above the ambient temperature? From the chart below, at 20 F temperature rise we find the solar load is approximately 6 W/ft.^{2} (14 ft.^{2} x 6 W/ft.^{2} = 84 W). All of the internally dissipated heat of 200 W must also be removed. 84 W + 200 W = 284 W. This is the total amount of heat energy that must be removed to maintain the enclosure at 20 F above the ambient temperature.

3. What is the expected temperature rise above the ambient temperature due to solar heat gain for an enclosure with ANSI 61 gray finish? From the chart below, the temperature rise due to solar heat load can be found by locating the intersection of the data curve for the given finish and the 0 Solar Generated Heat Load axis. For ANSI 61 gray, the temperature rise due to solar heat is about 40 F.

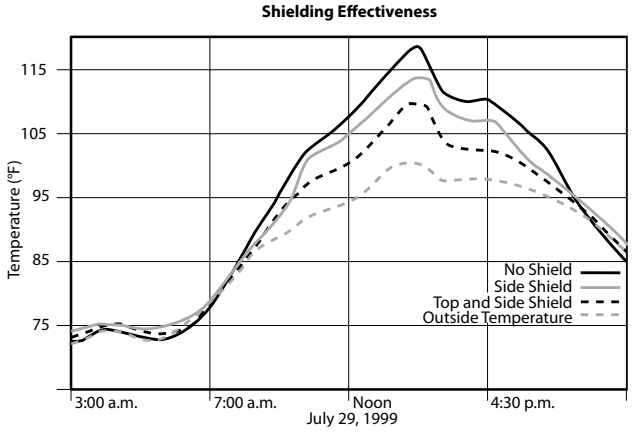


THE BENEFITS OF SHIELDING ENCLOSURES

Hoffman's research on the effects of solar radiation on enclosures has shown the positive benefits of utilizing shielding to decrease temperature rise. Shielding has been found to be an effective, low-cost method of reducing solar heat gain in outdoor electrical/electronic applications.

A test to compare the shielding effect on internal temperature rise was performed on similar enclosures exposed to the sun. The enclosures are the same color (RAL 7035 light gray) and material. The enclosure on the left is unshielded; the enclosure on the right is shielded on top and applicable sides.

The results of the test show the enclosure with top and side shields to have approximately a 46 percent reduction in temperature compared to the unshielded enclosure. The reduction in temperature is approximately 25 percent with the solar top shield only. Hoffman offers top shields as an accessory for Hoffman COMLINE Wall-Mount Enclosures. Hoffman can provide side shields as a customer-ordered modification.



Enclosure Type	Temperature (F)	Temperature (C)	Percent Temperature Reduction
Unshielded	119	48	—
Top shield only	114	46	25
Top and side shields	110	43	46

SELECTION PROCEDURE

The following selection process will help determine the size of the fan required for your application.

Application Guidelines

- Forced air systems can provide much greater heat transfer rates than those available with natural convection and radiation, therefore internal electronic packages have lower hot spot temperatures with forced air systems. The amount of cooling air flowing through an enclosure determines the temperature rise inside the enclosure due to the heat input. The more air that flows through the enclosure, the lower the temperature rise.

- Fans can be used at the exhaust to draw air through an enclosure, or at the inlet to blow air into the enclosure. Generally, a blowing fan at the air inlet is recommended for the following reasons:
  1. A fan at the inlet will raise the internal air pressure within the enclosure, which will help to keep dust and dirt out of an enclosure that is unsealed or opened frequently.
  2. A blowing fan at the inlet will produce slightly more turbulence, which improves the heat transfer characteristics within the enclosure.
  3. Fan life is prolonged since it is located in the path of the entering cooler air.

- The air inlet to the enclosure should be located as far as possible from the air outlet in order to prevent the airstream from short cycling. In a short cycling condition the air leaving the enclosure through the air outlet re-enters the enclosure through the air inlet. This condition results in a reduction in cooling efficiency. In general, it is recommended that the enclosure air inlet be on the side of the enclosure near the bottom and the air outlet be located on the opposite side and near the top.

- Fans should not be located adjacent to an area that restricts the free flow of cooling air. The use of a plenum in front of the fan is a good practice since it improves fan performance. The air velocity must be allowed to develop in order to effectively overcome the flow resistance. When the fan blades are located at the downstream end of the plenum housing, the air has a longer flow path. This improves the air velocity profile and fan performance.

- The enclosure fan system should have an air outlet area at least equal to the air inlet area.

- The system cooling efficiency changes with altitude because of reduced air density. Airflow through an enclosure should be increased when the air density decreases.

- If more than one fan is used in parallel, in the same enclosure, then both fans should be identical.

FANS AND BLOWERS

Determine the required fan/blower size (volume airflow):

Step 1

Select the product family that best fits your application:

- Compact Cooling Fans

(economical fan with no filter)

- Cooling Fan Packages

(economical fan package with low density filter)

- Type 12 Cooling Fan Package

Step 2

Determine the internal heat load in watts.

1 W = 3.413 BTU/Hr.

Step 3

Determine the ΔT (°F)

Step 4

Plot your application using the selection graph to the right.

- Find Watts (internal heat load) on the vertical scale
- Draw a horizontal line across to the intersection point with the diagonal line representing your ΔT
- Extend a vertical line down to the horizontal scale to determine your CFM requirement

The red line on the chart shows the airflow requirement for a 400 W heat load and a ΔT of 20°F.

Or calculate using the formula:

CFM = (3.16 x Watts) / (ΔT °F)

Where:

Watts = Internal Heat Load in watts

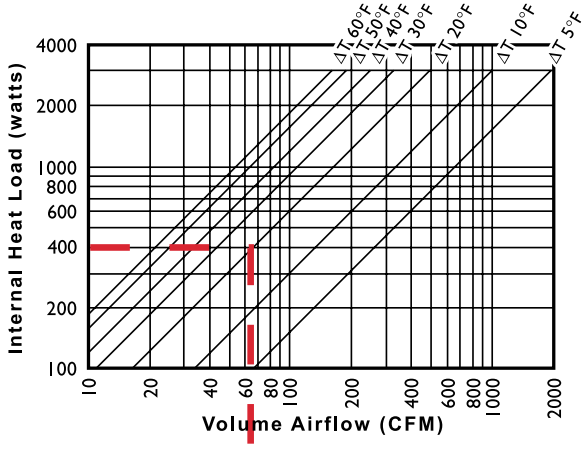
ΔT = Internal Temperature minus Ambient Temperature in °F

CFM = Required airflow in ft^3/min.

Example:

An internal heat load of 400 W requires airflow of about 63 CFM to maintain the enclosure at a ΔT of 20°F above the ambient temperature.

(3.16 x 400 W) / (20°F) ≈ 63 CFM



EX:
An internal heat load of 400 watts requires airflow of about 63 cfm to reduce cabinet temperature 20°F.

COOLING PRODUCT SELECTION APP

Prod. Select

Designed to assist you in determining the most suitable choices of air conditioners, heat exchangers or fans for your application. Download a free copy of our selection software by visiting **http://coolingtool.nvent.com/index.html**

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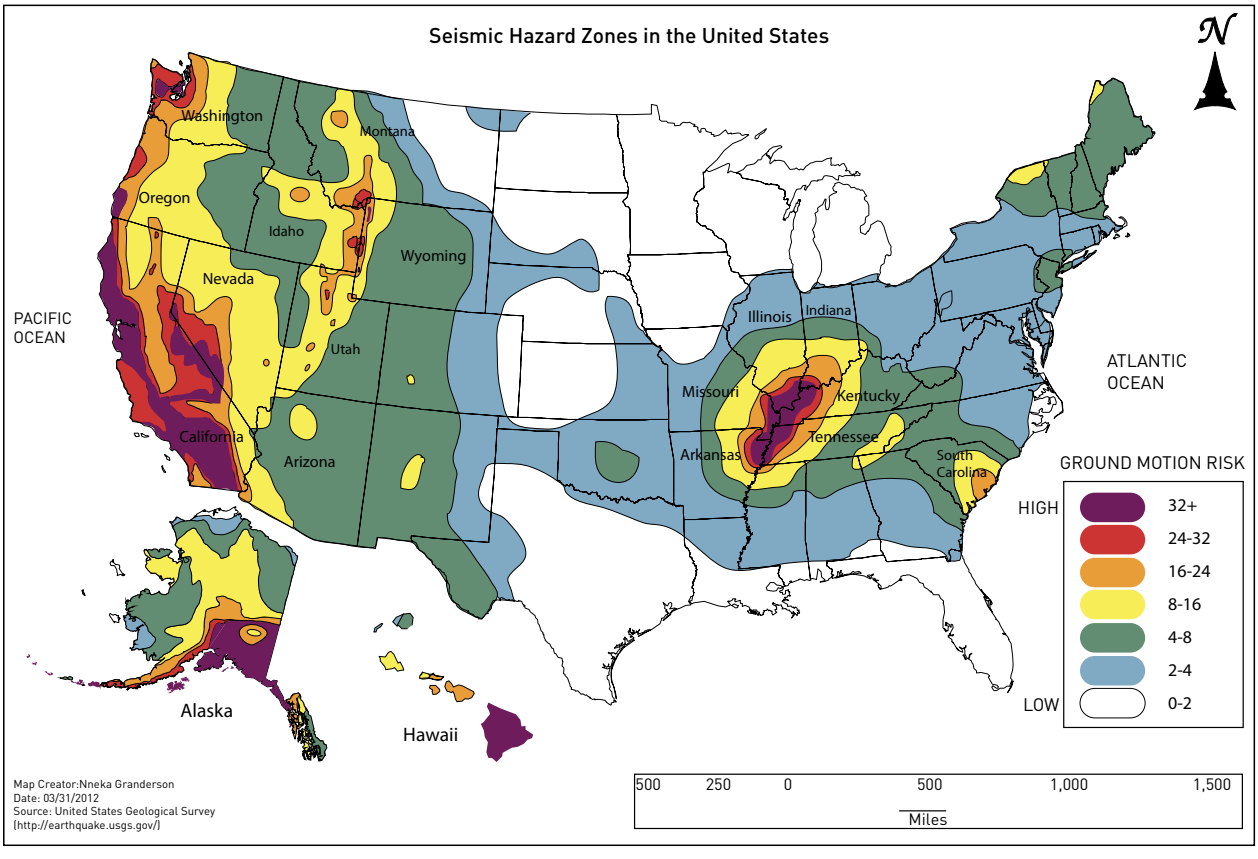
SEISMIC ENCLOSURES PROVIDE AN EXTRA MEASURE OF PROTECTION

The use of seismic-rated enclosures is recommended in areas where earthquake activity is possible. In addition, power plants, railroads, airports and other installations use rack-mounted electrical and electronic equipment that is subjected to vibration and other motion which may over-stress equipment framework, components and connections. Adequate enclosure frame strength and rigidity are necessary under these conditions.

Seismic Enclosure Standards
Industry standards define global geographical areas as earthquake-risk Zones. Referring to the seismic map below, ground motion risks are numbered from 0 to 32+ with 32+ corresponding to the highest risk areas. Geographic areas designated as 0-2 present no substantial earthquake risk.

Conditions Other Than Earthquakes
Equipment may need to withstand the effects of movement or vibration in areas close to railways, airports, power plants and other areas subject to similar conditions.



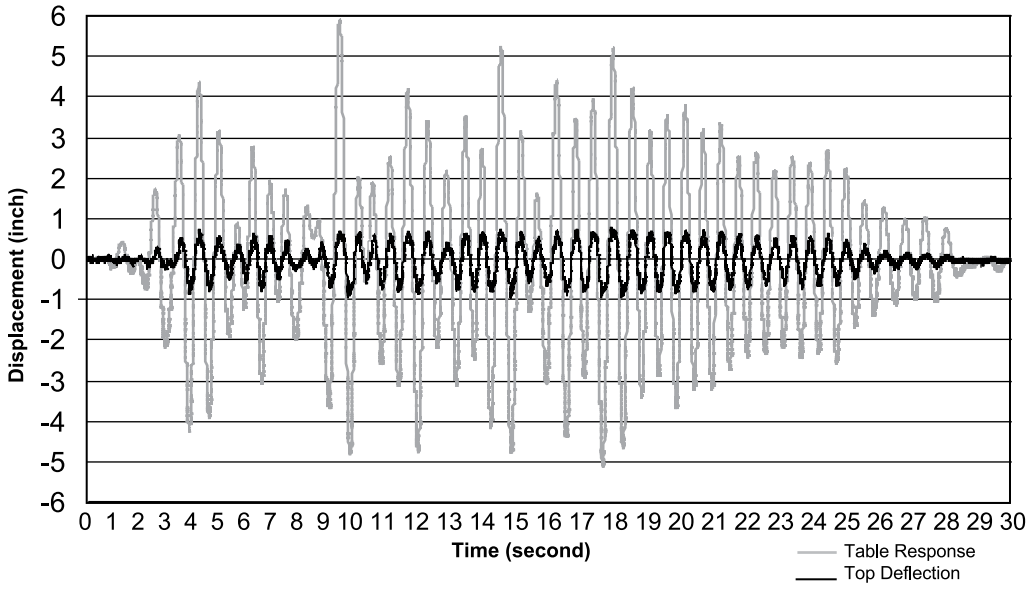
Hoffman Seismic Products
Hoffman performance-tests its seismic products according to Telcordia GR-63-CORE Network Equipment Building System (NEBS™) requirements for physical protection. These enclosures can also be manufactured to comply with all applicable national and international standards, such as the California Building Code (CBC) and International Building Code (IBC).

Seismic Compliance
A Telcordia GR-63-CORE compliant test must be conducted by a Nationally Recognized Testing Laboratory (NRTL) or other recognized independent laboratory before compliance will be issued. This test is conducted on an installation-specific basis with customer-installed equipment and cabling mounted inside the enclosure. In other cases or in addition to, a licensed structural engineer must certify the installation.

Hoffman helps facilitate the Office of Statewide Health Planning and Development (OSHPD) building approval with pre-approval of Manufacturer's Certification (OMP).

The OPM program is a voluntary program for review and pre-approval of seismic design of nonstructural components used in health facilities construction in California, per California Building Code, CBC 2013.

Enclosure mounted on shaker table



Time-motion history generated in front to back seismic enclosure test

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CLASSIFICATION OF HAZARDOUS LOCATIONS OVERVIEW

Protecting electrical equipment in hazardous locations requires special considerations. Options include traditional dust ignition-proof designs, Ex systems designed to avoid an explosion and enclosures that incorporate purging/pressurization solutions.

A hazardous location can be an industrial or commercial environment specifically defined in the National Electrical Code (NEC) in which flammable or explosive gases, liquids or dusts may be present. These explosive agents may be present at all times, only during abnormal operations or only when components or processes fail.

The two classification systems for hazardous locations are the NEC Division Classification system and the IEC Zone Classification system.

Enclosure Types

Type	National Electrical Manufacturers Association (NEMA Standard 250) and Electrical and Electronic Mfg. Association of Canada (EEMAC)	Underwriters Laboratories Inc. (UL698, 877, 886 and 894)	Canadian Standards Association (Standard C22.2 No. 25)
9	Enclosures constructed for indoor use in hazardous locations classified as Class II, Division 1, Groups E, F or G as defined in NFPA 70.	Class II, Division 1, Groups E, F or G – Indoor Hazardous Locations	Not specifically defined.

NEC DIVISION CLASSIFICATION SYSTEM (NEMA TYPE 9 CLASS/DIVISION)

Article 500 of the NEC classifies hazardous locations according to the properties of the flammable vapors, liquids or gases or according to the combustible dusts or fibers which may be present and the likelihood that a flammable or combustible concentration or quantity is present.

Class I Locations

Class I locations are defined by the NEC as those locations in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Class I locations are divided into groups determined by the specific gas or vapor involved: Group A, Group B, Group C or Group D. These locations are further classified as to whether hazardous concentrations of flammable gases or vapors are likely to occur in the course of normal operations (Division I) or only in the case of an accident or some unusual operating condition (Division 2).

Enclosures that can be used for Class I locations:

CLASS I, DIVISION 1
- NEMA Type 7 enclosures (Hoffman does not manufacture any of these enclosures)
- Purged general-purpose enclosures (subject to approval by the inspection authority having jurisdiction)

CLASS I, DIVISION 2
- Same as those listed for Class I, Division
- General-purpose enclosures [such enclosures are permitted for some applications by Article 501 of the NEC if the equipment does not constitute a source of ignition under normal operating conditions]

Class II Locations

Class II locations are defined by the NEC as those locations that are hazardous due to the presence of combustible dusts.

Class II locations are grouped according to the specific dust involved: Group E combustible metal dusts or other combustible dusts having resistivity of less than 105 ohm-centimeters; Group F combustible dusts such as carbon black, charcoal, and coal or coke dusts having resistivity greater than 102 ohm-centimeters or less than 108 ohm-centimeters; and Group G containing grain dusts or other combustible dusts having resistivity of 105 ohm-centimeters or greater. Class II locations are further classified as to whether combustible dusts may be present in the air under normal operating conditions (Division 1) or whether combustible dusts are not normally in the air but which may accumulate on or near electrical equipment (Division 2).

Enclosures that can be used for Class II locations:

CLASS II, DIVISION 1
- NEMA Type 9 enclosures
- Pressurized enclosures (subject to approval by the inspection authority having jurisdiction)

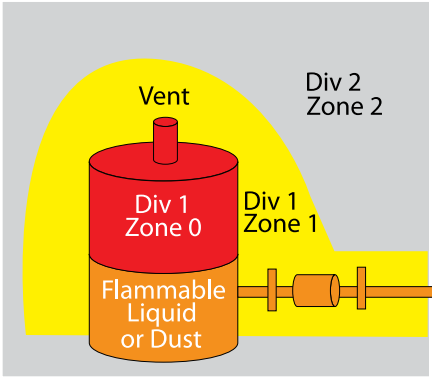
CLASS II, DIVISION 2
- Same as those listed for Class II, Division 1
- Dust-tight enclosures listed for use in hazardous locations. Tests for hazardous location dust-tight enclosures are contained in ISA 12.12.01 and UL 1604. General purpose dust-tight enclosure types as defined by UL 50 and NEMA 250 are Types 3, 4, 4X, 12, 12K and 13.
- General-purpose enclosures (such enclosures are permitted for some applications by Paragraph 502 of the National Electrical Code if the equipment does not constitute a source of ignition under normal operating conditions)

Class III Locations

Class III locations are defined by the NEC, in Article 503, as those locations that are hazardous because of the presence of easily ignitable fibers or flyings but not in quantities sufficient to produce ignitible mixtures. Class III locations are locations in which ignitable fibers or materials producing combustible flyings are handled, manufactured or used (Division 1) or locations in which ignitable fibers are stored or handled but where no manufacturing processes are performed (Division 2).

Enclosures that can be used for Class III locations:
Dust-tight Enclosures. As defined by UL 50 and NEMA 250, dust-tight enclosures are Types 3, 4, 4X, 12, 12K and 13.

CLASS I: FLAMMABLE GASES, VAPORS OR LIQUIDS



It is the user's responsibility to determine if the chosen protection method meets the requirements of the application and local standards.

Area Classification

Descriptions		
Division 1: Where ignitable concentrations of flammable gases, vapors or liquids can exist all of the time or some of the time under normal operating conditions.	**Zone 0:** Where ignitable concentrations of flammable gases, vapors or liquids are present continuously or for long periods of time under normal operating conditions.	**Zone 1:** Where ignitable concentrations of flammable gases, vapors or liquids are likely to exist under normal operating conditions.
Division 2: Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.	**Zone 2:** Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.	

Protection Methods

Area	Protection Methods
Division 1	- Explosion proof - Intrinsic safety (2 fault) - Purged/pressurized (Type X or Y)
Division 2	- Hermetically sealed - Nonincendive - Non-sparking - Purged/pressurized (Type Z) - Any Class 1, Division 1 method - Any Class 1, Zone 0, 1 or 2 method

Groups

Division 1 and 2	Zone 1, 1 and 2
A (acetylene)	IIC (acetylene and hydrogen)
B (hydrogen)	IIC (acetylene and hydrogen)
C (ethylene)	IIB (ethylene)
D (propane)	IIA (propane)

CLASS II: COMBUSTIBLE DUSTS

It is the user's responsibility to determine if the chosen protection method meets the requirements of the application and local standards.

Area Classification

Descriptions		
Division 1: Where ignitable concentrations of combustible dusts can exist all of the time or some of the time under normal operating conditions.	**Zone 20:** Where combustible dust or ignitable fibers and flyings are present continuously or for long periods of time in quantities sufficient to be hazardous.	**Zone 21:** Where combustible dust or ignitable fibers and flyings are likely to exist under normal operating conditions.
Division 2: Where ignitable concentrations of combustible dusts are not likely to exist under normal operating conditions.	**Zone 22:** Where dust or ignitable fibers and flyings are not likely to occur under normal operation in quantities sufficient to be hazardous.	

Groups

Division 1 and 2	Zone 20, 21 and 22
E (metals--Div. 1 only) F (coal) G (grain)	None

Protection Methods

Area	Protection Methods
Division 1	- Dust-ignition proof - Intrinsic safety - Pressurized
Division 2	- Dust-tight - Hermetically sealed - Nonincendive - Pressurized - Any Class II, Division 1 methods

NEC DIVISION CLASSIFICATION SYSTEM (NEMA TYPE 9 CLASS/DIVISION)

Article 500 of the NEC classifies hazardous locations according to the properties of the flammable vapors, liquids or gases or according to the combustible dusts or fibers which may be present and the likelihood that a flammable or combustible concentration or quantity is present.

Class I Locations

Class I locations are defined by the NEC as those locations in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Class I locations are divided into groups determined by the specific gas or vapor involved: Group A, Group B, Group C or Group D. These locations are further classified as to whether hazardous concentrations of flammable gases or vapors are likely to occur in the course of normal operations (Division I) or only in the case of an accident or some unusual operating condition (Division 2).

Enclosures that can be used for Class I locations:

CLASS I, DIVISION 1
- NEMA Type 7 enclosures (Hoffman does not manufacture any of these enclosures)
- Purged general-purpose enclosures (subject to approval by the inspection authority having jurisdiction)

CLASS I, DIVISION 2
- Same as those listed for Class I, Division
- General-purpose enclosures [such enclosures are permitted for some applications by Article 501 of the NEC if the equipment does not constitute a source of ignition under normal operating conditions]

Class II Locations

Class II locations are defined by the NEC as those locations that are hazardous due to the presence of combustible dusts.

Class II locations are grouped according to the specific dust involved: Group E combustible metal dusts or other combustible dusts having resistivity of less than 105 ohm-centimeters; Group F combustible dusts such as carbon black, charcoal, and coal or coke dusts having resistivity greater than 102 ohm-centimeters or less than 108 ohm-centimeters; and Group G containing grain dusts or other combustible dusts having resistivity of 105 ohm-centimeters or greater. Class II locations are further classified as to whether combustible dusts may be present in the air under normal operating conditions (Division 1) or whether combustible dusts are not normally in the air but which may accumulate on or near electrical equipment (Division 2).

Enclosures that can be used for Class II locations:

CLASS II, DIVISION 1
- NEMA Type 9 enclosures
- Pressurized enclosures (subject to approval by the inspection authority having jurisdiction)

CLASS II, DIVISION 2
- Same as those listed for Class II, Division 1
- Dust-tight enclosures listed for use in hazardous locations. Tests for hazardous location dust-tight enclosures are contained in ISA 12.12.01 and UL 1604. General purpose dust-tight enclosure types as defined by UL 50 and NEMA 250 are Types 3, 4, 4X, 12, 12K and 13.
- General-purpose enclosures (such enclosures are permitted for some applications by Paragraph 502 of the National Electrical Code if the equipment does not constitute a source of ignition under normal operating conditions)

Class III Locations

Class III locations are defined by the NEC, in Article 503, as those locations that are hazardous because of the presence of easily ignitable fibers or flyings but not in quantities sufficient to produce ignitible mixtures. Class III locations are locations in which ignitable fibers or materials producing combustible flyings are handled, manufactured or used (Division 1) or locations in which ignitable fibers are stored or handled but where no manufacturing processes are performed (Division 2).

Enclosures that can be used for Class III locations:
Dust-tight Enclosures. As defined by UL 50 and NEMA 250, dust-tight enclosures are Types 3, 4, 4X, 12, 12K and 13.

CLASS III: IGNITABLE FIBERS AND FLYINGS

It is the user's responsibility to determine if the chosen protection method meets the requirements of the application and local standards.

Area Classification

Descriptions
Division 1: Where easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used
Division 2: Where easily ignitable fibers are stored or handled.

Groups

Division 1 and 2
None

Protection Methods

Area	Protection Methods
Division 1	- Dust-tight - Hermetically sealed - Intrinsic safety
Division 2	- Nonincendive - Any Class III, Division 1 method

CEC AND NEC SUMMARY

NEC

NEC	Division 1: Normally Hazardous	Division 2: Not Normally Hazardous
Class I: Flammable Gases	Purging/Pressurization (purged and pressurized general purpose enclosure*)	Purging/Pressurization (purged and pressurized enclosure) General Purpose Enclosure*
Class II: Combustible Dusts	Purging/Pressurization** (purged and pressurized general purpose enclosure*) NEMA 9 Enclosure	Purging/Pressurization (purged and pressurized general purpose enclosure*) NEMA 9 Enclosure (general purpose enclosure*)
Class III: Ignitable Fibers and Flyings	General Purpose Enclosure (dust-tight)	General Purpose Enclosure (dust-tight)

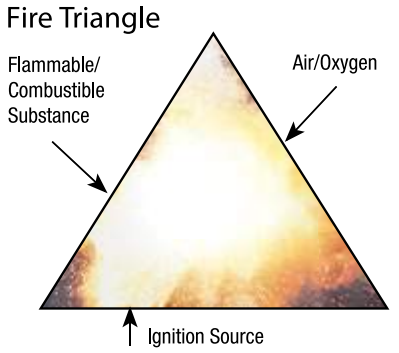
* General purpose enclosures are permitted for some applications by paragraph 500.8(B)(3) of the NE if the equipment does not constitute a source of ignition under normal operating conditions.

**Subject to AHJ (Authority Having Jurisdiction) approval.

North American Electrical Codes

Article	CEC Section	Description
500	18 - 000	General requirements
501	Appendix J	Class I, Division requirements
502	18 - 005	Class II, Division requirements
503	18 - 010	Class III, Division requirements
504	Appendix F	Class I, II and III I.S. Division requirements
505	18 - 006	Class I, Zone requirements
506	NA	Zone 20, 21 and 22 Location requirements

EUROPEAN ATEX PROTECTION METHODS



All three elements of the fire triangle must be present for ignition to occur.

Hoffman ATEX Reference Guide to European hazardous location protection methods and markings.

It is the user's responsibility to determine if the chosen protection method meets the requirements of the application and local standards.

Protection Concepts

Protection Concepts	Symbol	How It Works	Category
Increased Safety	Ex e	No arcs, sparks or hot surfaces	2 and 3
Non-sparking	Ex nA	No arcs, sparks or hot surfaces	3
Flameproof	Ex d	Contain the explosion and quench flame	2 and 3
Enclosed Break[a]	Ex nW	Contain the explosion and quench flame	3
Quartz/Sand Filled	Ex q	Contain the explosion and quench flame	2 and 3
Intrinsic Safety	Ex ia Ex ib	Limit energy of sparks; limit the temperature	1, 2 and 3 2 and 3
Energy Limitation	Ex nL	Limit energy of sparks; limit the temperature	3
Pressurized	Ex p	Keep the flammable gas away from any hot surfaces and ignition-capable equipment	2 and 3
Simplified Pressurization	Ex nP	Keep the flammable gas away from any hot surfaces and ignition-capable equipment	3
Encapsulation	Ex m	Keep the flammable gas away from any hot surfaces and ignition-capable equipment	2 and 3
Oil Immersion	Ex o	Keep the flammable gas away from any hot surfaces and ignition-capable equipment	2 and 3
Restricted Breathing	Ex nR	Keep the flammable gas away from any hot surfaces and ignition-capable equipment	3
Special	Ex s	Any proven method	1, 2 and 3

[a]Enclosed Break can also be noted as Ex nC.

Protection Methods

Protection Method	Symbol	IEC Standard
Intrinsic Safety	ia	60079-11
Intrinsic Safety	ib	60079-11
Flameproof	d	60079-1
Pressurization	p	60079-2
Increased Safety	e	60079-7
Encapsulation	m	60079-18
Oil Immersion	o	60079-6
Powder Filling	q	60079-5
Non-sparking	n	60079-15
General Requirement		60079-0
Inspection and Maintenance		60079-17

Temperature Classes

Maximum Surface Temperature	Fahrenheit	T-Class
450 C	842 F	T1
300 C	572 F	T2
200 C	392 F	T3
135 C	275 F	T4
100 C	212 F	T5
85 C	185 F	T6

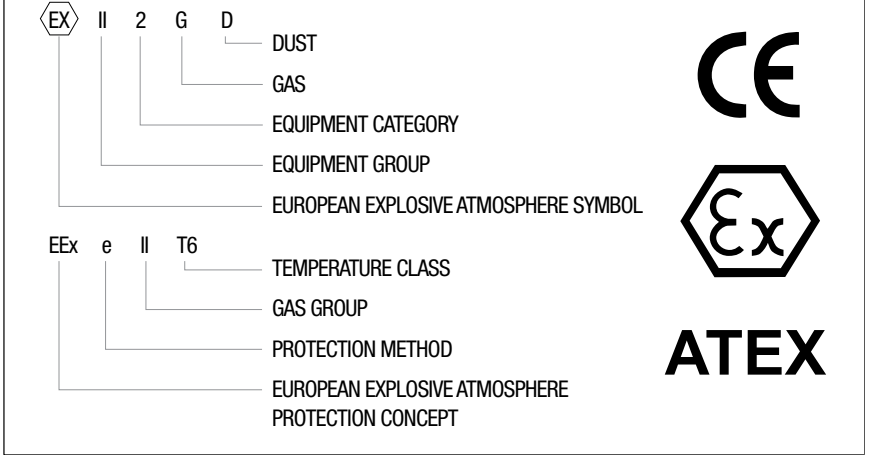
Modules ATEX (94/9/EC) ANNEX I (1) Classification of Equipment Groups into Categories

Equipment Group:	Equipment Category	Atmosphere:	Protection Level:	Required Protection Performance and Operation:
I (Mines)	M1	Methane and Dust	Very High	Two faults, remain energized and functioning
I (Mines)	M2	Methane and Dust	High	severe normal operation, de-energize in exp. atm.
II (Above Ground)	1	Gas, Vapor, Mist, Dust	Very High	Two faults
II (Above Ground)	2	Gas, Vapor, Mist, Dust	High	One fault
II (Above Ground)	3	Gas, Vapor, Mist, Dust	Low	Normal operation

Gas Groups

Typical Material	Group
Methane	I
Propane	IIA
Ethylene	IIB
Hydrogen	IIC
Acetylene	IIC
All Gases	II

ATEX MARKING DIRECTIVE (94/9/EC)



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COMPARING DIVISIONS, ZONES AND CATEGORIES

Occurance

Frequency	CEC, NEC Editions Division System	Zone System CEC, NEC	Category System ATEX
Continuous		Zone 0, 20	Category 1
Intermittent	Class I, Division 1	Zone 1, 21	Category 2
Periodically	Class II, Division 1	Zone 1, 21	Category 2
Abnormal Condition	Class I, Division 2	Zone 2, 22	Category 3
Abnormal Condition	Class II, Division 2	Zone 2, 22	Category 3

International Protection Standards

Area	Protection Methods	Applicable Certification Documents: USA	Applicable Certification Documents: Canada	Applicable Certification Documents: IECEx Scheme[b]	Applicable Certification Documents: Europe
Zone 0[a]	• Intrinsic safety, "ia" (2 fault)	UL 60079-11	CSA E60079-11	IEC 60079-11	EN 50020[c]
	• Encapsulation, "ma"	–	–	IEC 60079-18	EN 60079-18[c]
	• Class 1, Division 1 intrinsic safety (2 fault) method	UL 913	CSA 157	–	–
	• Special requirements	–	–	–	EN50284[d]
Zone 1[a]	• Encapsulation, "mb" ("m" for USA and Canada)	UL 60079-18	CSA E79-18	IEC 60079-18	EN 60079-18
	• Flameproof, "d"	UL 60079-1	CSA E60079-1	IEC 60079-1	EN 50018 or EN 60079-1
	• Increased safety, "e"	UL 60079-7	CSA E79-7	IEC 60079-7	EN 50019 or EN 60079-7
	• Intrinsic safety, "ib" (1 fault)	UL 60079-11	CSA E60079-11	IEC 60079-11	EN 50020
	• Oil immersion, "o"	UL 60079-6	CSA E60079-6	IEC 60079-6	EN 50015
	• Powder filling, "q"	UL 60079-5	CSA E60079-5	IEC 60079-5	EN 50017
	• Pressurization, "px" or "py" ("p" for USA)	NFPA 496	CSA E60079-2	IEC 60079-2	EN 60079-2
	• Any Class 1, Zone 0 method	–	–	–	–
	• Any Class I, Division 1 method	–	–	–	–
Zone 2	• Energy limited, "nC" or "nL"	UL 60079-15	CSA E60079-15	IEC 60079-15	EN 60079-15
	• Hermetically sealed, "nC"	UL 60079-15	CSA E60079-15	IEC 60079-15	EN 60079-15
	• Nonincendive, "nC"	UL 60079-15	CSA E60079-15	IEC 60079-15	EN 60079-15
	• Non-sparking, "nA"	UL 60079-15	CSA E60079-15	IEC 60079-15	EN 60079-15
	• Pressurization, "nZ"	–	CSA E60079-15	–	EN 60079-15
	• Pressurization, "pz" ("p" for USA)	NFPA 496	CSA E60079-2	IEC 60079-2	EN 60079-2
	• Restricted breathing, "nR"	UL 60079-15	CSA E60079-15	IEC 60079-15	EN 60079-15
	• Any Class 1, Zone 0 or 1 method	–	–	–	–
	• Any Class 1, Division 1 or 2 method	–	–	–	–

[a]For Zone 0 and 1 protection methods, there are also general requirement documents for the USA (UL 60079-0), Canada (CSA E60079-0), IECEx Scheme (IEC 60079-0), and Europe (EN 60079-0 or EN 50014).

[b]In addition to the EIC 60079 series noted above that address Class 1 protection methods, there is also a product-specific Class 1, Zone 1 and 2 certification document for electrical resistance heat tracing, IEC 62086-1.

[c]As part of the European ATEX Directive, Category 1 (Zone 0) electrical apparatus shall also comply with EN 50284.

[d]EN 50284 contains special requirements for construction, test and marking of Category 1 (Zone 0) electrical apparatus under the European ATEX Directive.

Notes

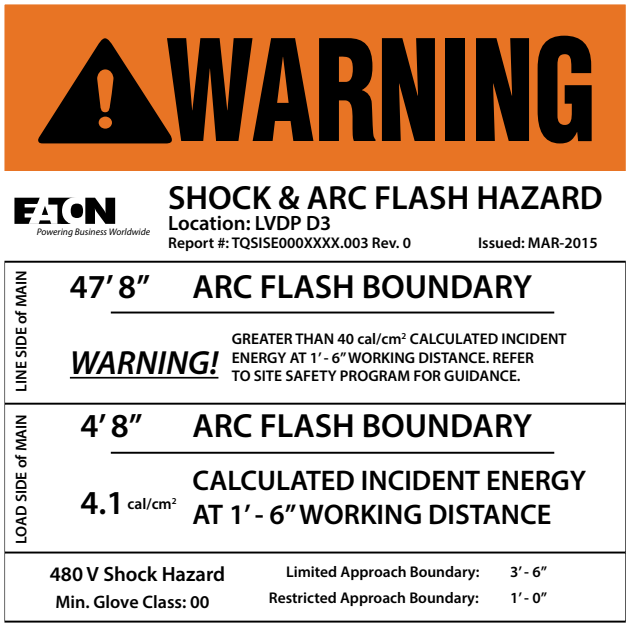
WHAT IS ARC FLASH?

An arc flash explosion is a very dangerous and often costly electrical system malfunction that occurs as a short circuit between electrified conductors. When the isolation between the conductors is breached or can't contain the applied voltage, the air immediately surrounding the short can ionize, creating an intense energy flash of 5,000 F or more.
Often, an arc flash event is triggered by operator movement or contact with the energized equipment. This is a particular threat when faults occur within an enclosure. A phase-to-ground or phase-to-phase fault that results in an explosion can cause fatal injuries and severe burns and produce considerable property damage.

STANDARDS ORGANIZATIONS AND ARC FLASH PROTECTION

To protect operators, OSHA and NFPA 70E standards require a "flash protection boundary." OSHA has adopted the National Fire Protection Association's "70E Standards for Electric Safety in the Workplace" as an acceptable means of compliance to meet this requirement.
The Occupational Safety and Health Administration (OSHA) maintains that electrical work should only take place on de-energized equipment. Access to potentially energized equipment capable of generating an arc flash must be limited to qualified personnel with extensive protective clothing and equipment, including fire-resistant suits and hoods along with non-conductive wands.
The National Electric Code requires that electrical control panels that might generate arc flash carry a permanent label applied by the panel builder.

Incident Energy
Incident energy, defined by NFPA as "the amount of energy impressed on a surface, a certain distance from a source, generated during an electrical arc event," is a key term in understanding arc-flash hazards. Incident energy is a measure of the heat created by the electrical arc and is expressed in calories per centimeter-squared.
The two most important numbers to remember are 1.2 and 40. Incident energy levels greater than 1.2 calories per centimeter-squared can produce second-degree burns. The NFPA 70E requires that workers wear personal protective equipment (PPE) when working with 50 volts or more. Arc flash levels above 40 calories per centimeter-squared can be fatal, usually resulting in a massive pressurized blast with sound pressure waves and projectiles. The PPE is available for exposures up to 100 calories per centimeter-squared; however, the force from the pressurized blast can be fatal regardless of the PPE.
Refer to the NFPA website, nfpa.org, for complete information.



HOW DOES NFPA 70E RELATE TO MY ENCLOSURE?

NFPA 70E requires protective equipment and clothing if an operator intends to open an electrical enclosure containing voltage greater than 50 VAC. NFPA 70E does not consider arc flash hazard to personnel once the enclosure is closed. Hoffman offers enclosures and accessories that comply with the equipment requirements of NFPA 70.
Please note, there are no tests specified in the NFPA 70E standard that rate an enclosure's resistance to arc flash energy. There is also nothing that can be done to the enclosure, other than keeping it closed, that would be a suitable alternative to the requirement in the NFPA 70E that states that personnel must wear protective clothing when opening an enclosure that may contain live power.

PREVENTING ARC FLASH EXPLOSIONS

Warning Label
The label is the first step. However, arc flash levels may change as routine maintenance and repair are performed.
The arc flash hazard level of any piece of equipment depends on the available fault current and the time it takes to trip the nearest upstream overcurrent protection device. In most cases, a local utility engineer can determine the fault current levels; however, these fault current values may be based on the impedance of the transformer that serves the facility, and additional impedances upstream of the transformer can lower the number. If these additional impedances are not included in the calculations, then the incident energy levels may be underestimated.
Short circuit current levels in electric utility systems are continuously changing as both electricians and maintenance workers replace overcurrent devices, fuses and panel boards or upgrades are made to the system. Any of these changes can have an effect on the arc flash energy level, but may not be noted on the warning label.

Protective Clothing
Anyone working on equipment that might generate an arc flash is required to wear protective clothing, including fire-retardant suits, gloves, face shield/goggles and other gear as stated in the Standards.

Equipment that Limits Exposure
Although no single piece of equipment can completely eliminate arc flash hazards, making it convenient to perform most routine maintenance tasks without directly accessing the equipment can significantly reduce the risk.
Providing external plug-ins to equipment inside an enclosure is one approach. Properly designed and insulated panels that are wired to the appropriate equipment inside allows operators to change settings and monitor performance without opening the enclosure. INTERSAFE Data Interface Ports by Hoffman are mounted on an enclosure to allow access to the programming devices inside the enclosure without opening the enclosure door.
Installing Infrared Windows (IR Windows) is another way to minimize exposure to live internal components. IR window is a component usually installed in the front of an enclosure to provide a view port to inspect internal equipment without the need to open the panel cover or de-energize the equipment. For example, technicians or thermographers can conduct maintenance tasks or thermal surveys using the IR windows.
Another approach to minimize exposure is to keep manuals and various worksheets outside the enclosure, but still conveniently close to the equipment. A data pocket that mounts on the outside of the enclosure protects manuals and records when closed but is easily accessed when necessary.
Finally, a power isolation enclosure, a smaller enclosure, interlocked to the main enclosure can be installed to isolate, or sequester, the fused disconnect switch or circuit breaker from the main control panel.
With a traditional disconnect switch inside the main enclosure, live power is still present on the line side of the disconnect switch. Since live power is still being fed upstream to the disconnect switch on the panel, the threat of an arc flash incident remains.
An external disconnect enclosure attaches to the side of the main control enclosure and houses only the disconnect switch or circuit breaker, physically removing it from the main enclosure. Power passes from the disconnect enclosure to the main enclosure via a terminal block mounted on the shared enclosure walls. When the disconnect switch is off, there is no power coming into the main control enclosure. The live line side of the disconnect switch is isolated in the SEQUESTR Enclosure.
Besides housing the external disconnect, the Hoffman SEQUESTR External Disconnect Enclosure System interlocks the doors of the main control cabinet when the disconnect switch is powered on. This allows users to comply with the disconnect door interlocking requirements of UL 508A, NFPA79, IEC 60204 and HS 1738, the most common electrical standards for industrial machinery. Because the disconnect switch or circuit breaker is now isolated, the SEQUESTR Enclosure enables technicians to work inside the main enclosure without the need for PPE (after verifying that power is off to the load side of the switch).

INTERSAFE Data Interface Ports

IR Window

External Data Pocket

SEQUESTR Isolation Enclosure

SANITARY WASHDOWN OVERVIEW

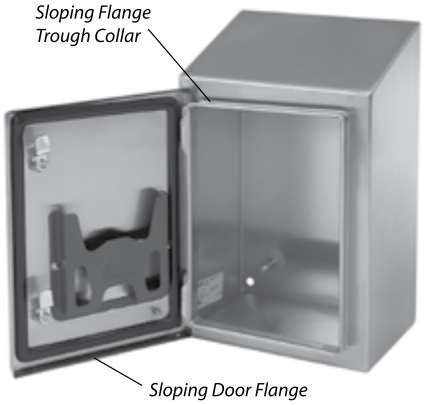
Maintaining a sanitary processing environment is crucial to food, beverage and pharmaceutical manufacturers. Removal of all waste materials and residues from processing systems and controls is essential. For these manufacturers, thorough daily washdowns are critical to ensuring cleanliness and product quality.
Incomplete washdowns can result in bacteria or mold contamination of products which can lead to delays in production, lost productivity, reduced sales, product recalls, litigation, tarnished company reputation and diminished brand equity.
Equally critical is the need for complete runoff. Flat and hidden surfaces are challenging to clean and a typical rectangular-designed enclosure has many of these surfaces. This is particularly challenging in and around tightly confined control systems and process electronics.

SANITARY ENCLOSURE DESIGN CRITERIA

The hygiene requirements, strategy and risk assessment for selecting an enclosure needs to be based on the process for which the machine is intended.
Sanitary enclosure design criteria for equipment used in storing, preparing or handling foods and beverages revolve around the ability to minimize standing and pooling of water and cleaning solutions, reduce areas that can harbor bacteria and promote easy wipe- or washdown.

SLOPED, SMOOTH SURFACES

Sloped horizontal-running surfaces, including sloped top, sloping flange trough collar and sloping door flanges, keep water from pooling on the enclosure. Sloped tops must be greater than 15 degrees to promote cleaning solution runoff. In addition, the enclosure surface must be free of imperfections such as pits, folds, cracks and crevices, with the roughness equal to or better than a number 4 mill finish, with a Roughness Average (RA) value of less than 32 µ in.



Hoffman WATERSHED® Enclosures incorporate a sloping flange trough collar and sloping door flange as well as a sloped top to ensure complete runoff.

FASTENERS, HANDLES AND HINGES

Fasteners, handles or hinges used on the enclosure must be cleanable with no exposed threads or recesses.
Piano/continuous hinges are not acceptable in most sanitary environments due to the difficulty in keeping them clean.
WATERSHED Enclosures feature easily accessible, flange-mounted, bullet-style hinges that minimize entrapment. Rounded, asymmetrical lift-off hinges provide easy access and allow complete hinge area cleaning.
Standard industrial enclosure latches are generally not suitable for washdown applications, because they typically don't include features that facilitate runoff and may not have adequate seal integrity. The latches typically specified are flush with the enclosure or smooth with a minimum of openings such as slots. They also latch forcefully enough to keep washdown solutions out of the enclosure.

SEAL/GASKET CONSIDERATIONS

A properly mounted, well-performing seal or gasket is critical to the protection of electrical equipment inside the enclosure. Holes, cutouts and viewing panels must be fully protected by a good seal.
To seal its WATERSHED Enclosures, Hoffman uses a polyurethane foam gasket that has been poured to form a continuous gasket without gaps. Periodically, gaskets should be checked for resiliency loss and gasket compression.

MOUNTING

Sanitary legs and stand off mounting brackets must be used to allow cleaning behind and underneath the enclosure. Adjustable legs can accommodate a floor's drainage slope without shimming, reducing potential entrapment areas.

STANDARDS

Several well-known organizations, including the International Electrochemical Commission (IEC), Underwriters Laboratories Inc. (UL), the National Electrical Manufacturers Association (NEMA) and the National Sanitation Foundation (NSF), have created performance standards relating to enclosures used in the washdown environment. These standards are chiefly concerned with water pressure, liquid temperature and sanitary design.

ENCLOSURE TESTING STANDARDS

IEC
IP69K is a high pressure, high temperature/jet stream washdown using a 30-degree fan nozzle at a distance of 100 mm to 150 mm (3.9 in. to 5.9 in.) from the object under test. The water temperature is 80 C +/- 5 C (176 F), and the water pressure at nozzle is 8,000 kPa to 10,000 kPa (1,160 psi to 1,450 psi) with a water flow of 14 l/min. to 16 l/min. (3.69 gal/min. to 4.22 gal/min.), approximately 4 gallons per minute.

NEMA
NEMA has ICS 5, Annex F-2002: High pressure power wash. However, this has no Type rating, 1,200 psi, 140 F, 1 gallon per minute.

UL
UL 4X washdown requirements use the cold line temperature water from a 25.4 mm (1.0 in.) inside diameter nozzle at a rate of 246 l/min. (65 gallons per min.) The water is directed at the joints of the enclosure at a distance of 3.0 m to 3.7 m (10 ft. to 12 ft.) and is to be moving at a rate of 1.6 s/cm. (4 seconds per linear inch).

NSF
The NSF/ANSI 169 standard specifies the essential sanitary design criteria for food equipment and devices, including electrical enclosures. NSF/ANSI 169 certification, as it applies to electrical enclosures, assures that all hinges, mounting devices, latches and door surfaces will protect the critical equipment while resisting exposure to environmental elements and accumulation of dirt and debris. A few of the design and construction criteria that are required for NSF/ANSI 169 include:

- lift-off hinges with removable pins (no continuous hinges are allowed)
- leg stands that provide a minimum unobstructed clearance of 6 in. beneath the enclosure
- sloped surfaces to facilitate runoff (including a sloped top and door edges)
- a sloped flange trough gutter above the enclosure door opening
- welded joints and seams that have been deburred
- easy-to-clean fasteners including slot-head quarter-turn latches
- no exposed threads or projecting screws or studs in a food or splash zone

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WIREWAY FILL TABLES

Lay-In and Feed-Through Type 12 and Type 3R (Based on 2008 National Electric Code)

Wireway Size and Maximum Number of Conductors Allowed
(Areas shown are 20% of the full interior cross sectional area of the wireway)

Conductor Size AWG-MCM	Area of Conductor (sq. in.)	2.50 x 2.50 (1.11 sq. in.)	4.00 x 4.00 (2.98 sq. in.)	6.00 x 6.00 (6.87 sq. in.)	8.00 x 8.00 (12.4 sq. in.)	12.00 x 6.00 (13.7 sq. in.)
"RFH-2, FFH-2, RH"						
18	0.0145	76	205	473	854	945
16	0.0172	64	173	399	720	797
14	0.0209	52	1426	328	592	656
12	0.0260	42	114	264	476	527
"RHW-2, RHH, RHW"						
14	0.0293	37	101	234	422	467
12	0.0353	31	84	194	350	388
"RHW-2, RHH, RHW, RH"						
10	0.0437	25	68	157	283	313
8	0.0835	13	35	82	148	164
6	0.1041	10	28	65	118	131
4	0.1333	8	22	51	92	102
3	0.1521	7	19	45	81	90
2	0.1750	6	17	39	70	78
1	0.2660	4	11	25	46	51
1/0	0.3039	3	9	22	40	45
2/0	0.3505	3	8	19	35	39
3/0	0.4072	2	7	16	30	33
4/0	0.4754	2	6	14	26	28
250	0.6291	1	4	10	19	21
300	0.7088	1	4	9	17	19
350	0.7870	1	3	8	15	17
400	0.8626	1	3	7	14	15
500	1.0082	1	2	6	12	13
600	1.2135	0	2	5	10	11
700	1.3561	0	2	5	9	10
750	1.4272	0	2	4	8	9
800	1.4957	0	1	4	8	9
900	1.6377	0	1	4	7	8
1000	1.7719	0	1	3	6	7
1250	2.3479	0	1	2	5	5
1500	2.6938	0	1	2	4	5
1750	3.0357	0	0	2	4	4
2000	3.3719	0	0	2	3	4
"SF-2, SFF-2"						
18	0.0115	96	259	597	1077	1192
16	0.0139	79	214	494	891	986
14	0.0172	64	173	399	720	797
"SF-1, SFF-1"						
18	0.0065	169	458	1056	1905	2109
"RFH-1, AF, XF, XFF, AF, TF, TFF, TW"						
18	0.0080	138	372	858	1548	1713
16	0.0109	101	273	630	1136	1257
14	0.0139	79	214	494	891	986
12	0.0181	61	164	379	684	757
10	0.0243	45	122	282	509	564
8	0.0437	25	68	157	283	313
"RHH*, RHW*, RHW-2*, THHW, THW, AF, XF, XFF, THW-2, TW"						
14	0.0209	52	142	328	592	656
12	0.0260	42	114	264	476	527
10	0.0333	33	89	206	371	411
8	0.0556	19	53	123	222	246
6	0.0726	15	41	94	170	188
4	0.0973	11	30	70	127	140
3	0.1134	9	26	60	109	120
2	0.1333	8	22	51	92	102
1	0.1901	5	15	36	65	72
1/0	0.2223	4	13	30	55	61
2/0	0.2624	4	11	26	47	52
3/0	0.3117	3	9	22	39	43
4/0	0.3718	2	8	18	33	36
250	0.4596	2	6	14	26	29
300	0.5281	2	5	13	23	25
350	0.5958	1	5	11	20	23
400	0.6619	1	4	10	18	20
500	0.7901	1	3	8	15	17
600	0.9729	1	3	7	12	14
700	1.1010	1	2	6	11	12
750	1.1652	0	2	5	10	11
800	1.2272	0	2	5	10	11
900	1.3561	0	2	5	9	10
1000	1.4784	0	2	4	8	9
1250	1.8602	0	1	3	6	7
1500	2.1695	0	1	3	5	6
1750	2.4773	0	1	2	5	5
2000	2.7818	0	1	2	4	4
"TFN, TFFN, THHN, THWN, THWN-2"						
18	0.0055	200	541	1248	2252	2493
16	0.0072	153	413	953	1720	1904
14	0.0097	113	307	708	1277	1413
12	0.0133	83	224	516	931	1030
10	0.0211	52	141	325	587	649
8	0.0366	30	81	187	338	374
6	0.0507	21	58	135	244	270
4	0.0824	13	36	83	150	166
3	0.0973	11	30	70	127	140
2	0.1158	9	25	59	106	118
1	0.1562	7	19	43	79	87
1/0	0.1855	5	16	37	66	73

The 2008 National Electric Code limits wireway fill as follows:
1. A wireway shall not contain more than thirty current-carrying conductors except where the ampacity has been adjusted according to Table 310-15(b)(2)(a).
2. The sum of the cross-sectional areas of all conductors shall not exceed 20% of the interior cross-sectional area of the wireway.

NOTE: Section 14 of NFPA 79 allows 50% fill for industrial machine wireway.

Wireway Size and Maximum Number of Conductors Allowed
(Areas shown are 20% of the full interior cross sectional area of the wireway)

Conductor Size AWG-MCM	Area of Conductor (sq. in.) ,	2.50 x 2.50 (1.11 sq. in.)	4.00 x 4.00 (2.98 sq. in.)	6.00 x 6.00 (6.87 sq. in.)	8.00 x 8.00 (12.4 sq. in.)	12.00 x 6.00 (13.7 sq. in.)
Continued						
2/0	0.2223	4	13	30	55	61
3/0	0.2679	4	11	25	46	51
4/0	0.3237	3	9	21	38	42
250	0.3970	2	7	17	31	34
300	0.4608	2	6	14	26	29
350	0.5242	2	5	13	23	26
400	0.5863	1	5	11	21	23
500	0.7073	1	4	9	17	19
600	0.8676	1	3	7	14	15
700	0.9887	1	3	6	12	13
750	1.0496	1	2	6	11	13
800	1.1085	0	2	6	11	12
900	1.2311	0	2	5	10	11
1000	1.3478	0	2	5	9	10
"PF, PGFF, PGF, PFF, PTF, PAF, PTFF, PAFF, TFE, FEP, PFA, FEPB, PFAH"						
18	0.0058	190	513	1184	2135	2364
16	0.0075	147	397	915	1651	1828
14	0.0100	110	297	686	1238	1371
12	0.0137	80	217	501	904	1000
10	0.0191	57	156	359	648	717
8	0.0333	33	89	206	371	411
6	0.0468	23	63	146	264	292
4	0.0670	16	44	102	184	204
3	0.0804	13	37	85	154	170
2	0.0973	11	30	70	127	140
1	0.1399	7	21	49	88	98
1/0	0.1676	6	17	40	73	81
2/0	0.2027	5	14	33	61	67
3/0	0.2463	4	12	27	50	55
4/0	0.3000	3	9	22	41	45
"ZF, ZFF, Z"						
18	0.0045	245	662	1526	2752	3047
16	0.0061	181	488	1125	2030	2247
14	0.0083	133	359	827	1492	1652
12	0.0117	94	254	587	1058	1171
10	0.0191	57	156	359	648	717
8	0.0302	36	98	227	410	454
6	0.0430	25	69	159	288	318
4	0.6250	1	4	10	19	21
3	0.0855	12	34	80	144	160
2	0.1029	10	28	66	120	133
1	0.1269	8	23	54	97	108
1/0	0.1676	6	17	40	73	81
2/0	0.2027	5	14	33	61	67
3/0	0.2463	4	12	27	50	55
4/0	0.3000	3	9	22	41	45
"XHHW, ZW, XHHW-2, XHH"						
14	0.0139	79	214	494	891	986
12	0.0181	61	164	379	684	757
10	0.0243	45	122	282	509	564
8	0.0437	25	68	157	283	313
6	0.0590	18	50	116	209	232
4	0.0814	13	36	84	152	168
3	0.0962	11	30	71	128	142
2	0.1146	9	26	59	108	119
1	0.1534	7	19	44	80	89
1/0	0.1825	6	16	37	67	75
2/0	0.2190	5	13	31	56	62
3/0	0.2642	4	11	25	46	51
4/0	0.3197	3	9	21	38	42
250	0.3904	2	7	17	31	35
300	0.4536	2	6	15	27	30
350	0.5166	2	5	13	23	26
400	0.5782	1	5	11	21	23
500	0.6984	1	4	9	17	19
600	0.8709	1	3	7	14	15
700	0.9923	1	3	6	12	13
750	1.0532	1	2	6	11	13
800	1.1122	0	2	6	11	12
900	1.2351	0	2	5	10	11
1000	1.3519	0	2	5	9	10
1250	1.7180	0	1	3	7	7
1500	2.0157	0	1	3	6	6
1750	2.3127	0	1	2	5	5
2000	2.6073	0	1	2	4	5
"KF-2, KFF-2"						
18	0.0031	356	961	2215	3995	4423
16	0.0044	251	677	1560	2815	3116
14	0.0064	172	465	1073	1935	2142
12	0.0093	118	320	738	1331	1474
10	0.0139	79	214	494	891	986
"KF-1, KFF-1"						
18	0.0026	424	1146	2641	4764	5273
16	0.0037	298	805	1856	3347	3705
14	0.0055	200	541	1248	2252	2493
12	0.0083	133	359	827	1492	1652
10	0.0127	86	234	540	975	1079

The 2008 National Electric Code limits wireway fill as follows:
1. A wireway shall not contain more than thirty current-carrying conductors except where the ampacity has been adjusted according to Table 310-15(b)(2)(a).
2. The sum of the cross-sectional areas of all conductors shall not exceed 20% of the interior cross-sectional area of the wireway.

NOTE: Section 14 of NFPA 79 allows 50% fill for industrial machine wireway.

Lay-In Type 1 (Based on 2008 National Electric Code)

Wireway Size and Maximum Number of Conductors Allowed
(Areas shown are 20% of the full interior cross sectional area of the wireway)

Conductor Size AWG-MCM	Area of Conductor (sq. in.)	2.50 x 2.50 (1.25 sq. in.)	4.00 x 4.00 (3.20 sq. in.)	6.00 x 6.00 (7.20 sq. in.)	8.00 x 8.00 (12.8 sq. in.)	10.00 x 10.00 (20 sq. in.)	12.00 x 12.00 (28.8 sq. in.)
"RFH-2, FFH-2, RH"							
18	0.0145	86	220	496	882	1379	1986
16	0.0172	72	186	418	744	1162	1674
14	0.0209	59	153	344	612	956	1377
12	0.0260	48	123	276	492	769	1107
"RHW-2, RHH, RHW"							
14	0.0293	42	109	245	436	682	982
12	0.0353	35	90	203	362	566	815
"RHW-2, RHH, RHW, RH"							
10	0.0437	28	73	164	292	457	659
8	0.0835	14	38	86	153	239	344
6	0.1041	12	30	69	122	192	276
4	0.1333	9	24	54	96	150	216
3	0.1521	8	21	47	84	131	189
2	0.1750	7	18	41	73	114	164
1	0.2660	4	12	27	48	75	108
1/0	0.3039	4	10	23	42	65	94
2/0	0.3505	3	9	20	36	57	82
3/0	0.4072	3	7	17	31	49	70
4/0	0.4754	2	6	15	26	42	60
250	0.6291	1	5	11	20	31	45
300	0.7088	1	4	10	18	28	40
350	0.7870	1	4	9	16	25	36
400	0.8626	1	3	8	14	23	33
500	1.0082	1	3	7	12	19	28
600	1.2135	1	2	5	10	16	23
700	1.3561	0	2	5	9	14	21
750	1.4272	0	2	5	8	14	20
800	1.4957	0	2	4	8	13	19
900	1.6377	0	1	4	7	12	17
1000	1.7719	0	1	4	7	11	16
1250	2.3479	0	1	3	5	8	12
1500	2.6938	0	1	2	4	7	10
1750	3.0357	0	1	2	4	6	9
2000	3.3719	0	0	2	3	5	8
"SF-2, SFF-2"							
18	0.0115	108	278	626	1113	1739	2504
16	0.0139	89	230	517	920	1438	2071
14	0.0172	72	186	418	744	1162	1674
"SF-1, SFF-1"							
18	0.0065	192	492	1107	1969	3076	4430
"RFH-1, AF, XF, XFF, AF, TF, TFF, TW"							
18	0.0080	156	400	900	1600	2500	3600
16	0.0109	114	293	660	1174	1834	2642
14	0.0139	89	230	517	920	1438	2071
12	0.0181	69	176	397	707	1104	1591
10	0.0243	51	131	296	526	823	1185
8	0.0437	28	73	164	292	457	659
"RHH*, RHW*, RHW-2*, THHW, THW, AF, XF, XFF, THW-2, TW"							
14	0.0209	59	153	344	612	956	1377
12	0.0260	48	123	276	492	769	1107
10	0.0333	37	96	216	384	600	864
8	0.0556	22	57	129	230	359	517
6	0.0726	17	44	99	176	275	396
4	0.0973	12	32	73	131	205	295
3	0.1134	11	28	63	112	176	253
2	0.1333	9	24	54	96	150	216
1	0.1901	6	16	37	67	105	151
1/0	0.2223	5	14	32	57	89	129
2/0	0.2624	4	12	27	48	76	109
3/0	0.3117	4	10	23	41	64	92
4/0	0.3718	3	8	19	34	53	77
250	0.4596	2	6	15	27	43	62
300	0.5281	2	6	13	24	37	54
350	0.5958	2	5	12	21	33	48
400	0.6619	1	4	10	19	30	43
500	0.7901	1	4	9	16	25	36
600	0.9729	1	3	7	13	20	29
700	1.1010	1	2	6	11	18	26
750	1.1652	1	2	6	10	17	24
800	1.2272	1	2	5	10	16	23
900	1.3561	0	2	5	9	14	21
1000	1.4784	0	2	4	8	13	19
1250	1.8602	0	1	3	6	10	15
1500	2.1695	0	1	3	5	9	13
1750	2.4773	0	1	2	5	8	11
2000	2.7818	0	1	2	4	7	10
"TFN, TFFN, THHN, THWN, THWN-2"							
18	0.0055	227	581	1309	2327	3636	5236
16	0.0072	173	444	1000	1777	2777	4000
14	0.0097	128	329	742	1319	2061	2969
12	0.0133	93	240	541	962	1503	2165
10	0.0211	59	151	341	606	947	1364
8	0.0366	34	87	196	349	546	786
6	0.0507	24	63	142	252	394	568
4	0.0824	15	38	87	155	242	349
3	0.0973	12	32	73	131	205	295
2	0.1158	10	27	62	110	172	248
1	0.1562	8	20	46	81	128	184
1/0	0.1855	6	17	38	69	107	155

The 2008 National Electric Code limits wireway fill as follows:
1. A wireway shall not contain more than thirty current-carrying conductors except where the ampacity has been adjusted according to Table 310-15(b)(2)(a).
2. The sum of the cross-sectional areas of all conductors shall not exceed 20% of the interior cross-sectional area of the wireway.

NOTE: Section 14 of NFPA 79 allows 50% fill for industrial machine wireway.

Wireway Size and Maximum Number of Conductors Allowed
(Areas shown are 20% of the full interior cross sectional area of the wireway)

Conductor Size AWG-MCM	Area of Conductor (sq. in.)	2.50 x 2.50 (1.25 sq. in.)	4.00 x 4.00 (3.20 sq. in.)	6.00 x 6.00 (7.20 sq. in.)	8.00 x 8.00 (12.8 sq. in.)	10.00 x 10.00 (20 sq. in.)	12.00 x 12.00 (28.8 sq. in.)
Continued							
2/0	0.2223	5	14	32	57	89	129
3/0	0.2679	4	11	26	47	74	107
4/0	0.3237	3	9	22	39	61	88
250	0.3970	3	8	18	32	50	72
300	0.4608	2	6	15	27	43	62
350	0.5242	2	6	13	24	38	54
400	0.5863	2	5	12	21	34	49
500	0.7073	1	4	10	18	28	40
600	0.8676	1	3	8	14	23	33
700	0.9887	1	3	7	12	20	29
750	1.0496	1	3	6	12	19	27
800	1.1085	1	2	6	11	18	25
900	1.2311	1	2	5	10	16	23
1000	1.3478	0	2	5	9	14	21
"PF, PGFF, PGF, PFF, PTF, PAF, PTFF, PAFF, TFE, FEP, PFA, FEPB, PFAH"							
18	0.0058	215	551	1241	2206	3448	4965
16	0.0075	166	426	960	1706	2666	3840
14	0.0100	125	320	720	1280	2000	2880
12	0.0137	91	233	525	934	1459	2102
10	0.0191	65	167	376	670	1047	1507
8	0.0333	37	96	216	384	600	864
6	0.0468	26	68	153	273	427	615
4	0.0670	18	47	107	191	298	429
3	0.0804	15	39	89	159	248	358
2	0.0973	12	32	73	131	205	295
1	0.1399	8	22	51	91	142	205
1/0	0.1676	7	19	42	76	119	171
2/0	0.2027	6	15	35	63	98	142
3/0	0.2463	5	12	29	51	81	116
4/0	0.3000	4	10	24	42	66	96
"ZF, ZFF, Z"							
18	0.0045	277	711	1600	2844	4444	6400
16	0.0061	204	524	1180	2098	3278	4721
14	0.0083	150	385	867	1542	2409	3469
12	0.0117	106	273	615	1094	1709	2461
10	0.0191	65	167	376	670	1047	1507
8	0.0302	41	105	238	423	662	953
6	0.0430	29	74	167	297	465	669
4	0.6250	2	5	11	20	32	46
3	0.0855	14	37	84	149	233	336
2	0.1029	12	31	69	124	194	279
1	0.1269	9	25	56	100	157	226
1/0	0.1676	7	19	42	76	119	171
2/0	0.2027	6	15	35	63	98	142
3/0	0.2463	5	12	29	51	81	116
4/0	0.3000	4	10	24	42	66	96
"XHHW, ZW, XHHW-2, XHH"							
14	0.0139	89	230	517	920	1438	2071
12	0.0181	69	176	397	707	1104	1591
10	0.0243	51	131	296	526	823	1185
8	0.0437	28	73	164	292	457	659
6	0.0590	21	54	122	216	338	488
4	0.0814	15	39	88	157	245	353
3	0.0962	12	33	74	133	207	299
2	0.1146	10	27	62	111	174	251
1	0.1534	8	20	46	83	130	187
1/0	0.1825	6	17	39	70	109	157
2/0	0.2190	5	14	32	58	91	131
3/0	0.2642	4	12	27	48	75	109
4/0	0.3197	3	10	22	40	62	90
250	0.3904	3	8	18	32	51	73
300	0.4536	2	7	15	28	44	63
350	0.5166	2	6	13	24	38	55
400	0.5782	2	5	12	22	34	49
500	0.6984	1	4	10	18	28	41
600	0.8709	1	3	8	14	22	33
700	0.9923	1	3	7	12	20	29
750	1.0532	1	3	6	12	18	27
800	1.1122	1	2	6	11	17	25
900	1.2351	1	2	5	10	16	23
1000	1.3519	0	2	5	9	14	21
1250	1.7180	0	1	4	7	11	16
1500	2.0157	0	1	3	6	9	14
1750	2.3127	0	1	3	5	8	12
2000	2.6073	0	1	2	4	7	11
"KF-2, KFF-2"							
18	0.0031	403	1032	2322	4129	6451	9290
16	0.0044	284	727	1636	2909	4545	6545
14	0.0064	195	500	1125	2000	3125	4500
12	0.0093	134	344	774	1376	2150	3096
10	0.0139	89	230	517	920	1438	2071
"KF-1, KFF-1"							
18	0.0026	480	1230	2769	4923	7692	11076
16	0.0037	337	864	1945	3459	5405	7783
14	0.0055	227	581	1309	2327	3636	5236
12	0.0083	150	385	867	1542	2409	3469
10	0.0127	98	251	566	1007	1574	2267

The 2008 National Electric Code limits wireway fill as follows:
1. A wireway shall not contain more than thirty current-carrying conductors except where the ampacity has been adjusted according to Table 310-15(b)(2)(a).
2. The sum of the cross-sectional areas of all conductors shall not exceed 20% of the interior cross-sectional area of the wireway.

NOTE: Section 14 of NFPA 79 allows 50% fill for industrial machine wireway.

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DISCONNECT WIRE BEND SPACE TABLES

Allen-Bradley Bulletin 1494F Disconnect Switches

		Wire Bend Space Above Disconnect								
		Bulletin A22[a]				Bulletin A21		Bulletin A28, A34		
Type Number	Amp Rating	When E1=3.84 W1	When E1=6.75 W1	When E1=9.50 W1	When E1=10.5 W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
N30	30A	3.25	6.25	8.88	—	5.31	11.31	9.31	15.31	18.31
NF30	30A	3.25	6.25	8.88	—	5.31	11.31	9.31	15.31	18.31
N60	60A	2.50	5.25	8.12	—	4.62	10.62	8.62	14.62	17.62
NF60	60A	2.50	5.25	8.12	—	4.62	10.62	8.62	14.62	17.62
N100	100A	—	3.50	6.25	—	—	8.75	6.75	12.75	15.75
NF100	100A	—	3.50	6.25	—	—	8.75	6.75	12.75	15.75
N200	200A	—	—	—	7.00[a]	—	7.12	5.12	11.12	14.12
NF200	200A	—	—	—	7.00[a]	—	7.12	5.12	11.12	14.12

[a] See drawing in Disconnect Chapter to cross reference E1 dimension to enclosure depth.

Allen-Bradley Bulletin 1494D Operators for Circuit Breakers

		Wire Bend Space Above Disconnect							
		Bulletin A22[a]			Bulletin A21		Bulletin A28, A34		
Type Number	Amp Rating	When E1=3.84 W1	When E1=6.75 W1	When E1=9.50 W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
N4/N40	150A	3.25	6.12	8.88	5.25	11.25	9.25	15.25	18.25
N5/N50	250A	—	5.31	8.06	4.44	10.44	8.44	14.44	17.44
N6/N60	400A	—	5.44	8.19	—	10.50	8.50	14.50	17.50

[a] See drawing in Disconnect chapter to cross reference E1 dimension to enclosure depth.

Allen-Bradley 1494F/1494D E1 Cutout by Enclosure Height

Bulletin Number	Height A		E1 up to 100A Switch, 400A Breaker		E1, 200A Switch	
	in.	mm	in.	mm	in.	mm
A21	60.12	1527	5.88	149	na	na
	72.12	1832	11.88	302	10.56	268
A28, A34	72.12	1832	9.88	251	8.56	217
	84.12	2137	15.88	403	14.56	370
	90.12	2289	18.80	478	17.56	446

Allen-Bradley Bulletin 1494V Disconnect Switches

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CW2D, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S4, A4S2		Bulletin A28, A28S4, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[b] W1	When C=12[c] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
DS30	30A	2.78	5.13	9.66	2.78	9.65	6.66	9.66	5.85	11.85	9.85	15.85	18.85
DS60	60A	2.01	4.35	8.89	2.01	8.88	5.89	8.89	5.08	11.08	9.08	15.08	18.08
DS100	100A	—	4.17	8.67	—	8.69	5.70	8.70	4.89	10.89	8.89	14.89	17.89
DS200	200A	—	—	8.12	—	8.12	—	8.12	—	10.34	8.34	14.34	17.34
DS400a	400A	—	—	—	—	—	—	—	—	—	—	10.14[d]	13.14[d]
DS600a	600A	—	—	—	—	—	—	—	—	—	—	10.14[d]	13.14[d]

a These switches will only fit catalog number A60SA3812A24LP. Wire bend space of 12.12 in. is provided above disconnect when installed.
b C=10 applies only to Bulletin A17.
c For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.
d Does not fit Bulletin A28S enclosures.

Allen-Bradley Bulletin 1494V Operators for Circuit Breakers

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CW2D, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S4, A4S2		Bulletin A28, A28S4, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
M40	15A-150A	4.25	6.62	11.12	4.25	11.12	8.12	11.12	7.25	13.25	11.25	17.25	20.25
M50	70A-250A	—	—	10.62	—	10.62	—	10.62	6.81	12.81	10.81	16.81	19.81
M60	100A-400A	—	—	10.50	—	10.50	—	10.50	—	12.62	10.62	16.62	19.62

a C=10 applies only to Bulletin A17.
b For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Allen-Bradley 1494V E1 Cutout by Enclosure Height

Bulletin Number	Height A		E1 up to 200A Switch, 400A Breaker		E1, 400A or 600A Switch	
	in.	mm	in.	mm	in.	mm
A21, A21S4, A4S2	60.12	1527	7.88	200	na	na
	72.12	1832	13.88	353	na	na
A28, A28S4, A34	72.12	1832	11.88	302	na	na
	84.12	2137	17.88	454	16.43	417
	90.12	2289	20.88	530	19.43	494

ABB Controls Disconnect Switches with Flange-Mounted Operators

		Wire Bend Space Above Disconnect										
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
OETL-NF30-F	40A	6.41	8.75	13.28	6.41	13.28	10.28	13.28	9.53	15.53	13.53	19.53	22.53
OETL-NF60-F	80A	6.22	8.56	13.09	6.22	13.09	10.09	13.09	9.34	15.34	13.34	19.34	22.34
OETL-NF100-F	100A	5.66	8.00	12.53	566	12.53	9.53	12.53	8.78	14.78	12.78	18.78	21.78
OETL-NF175-F	175A	—	5.75	10.28	—	10.28	7.28	10.28	6.53	12.53	10.53	16.53	19.53
OETL-NF200-F	200A	—	5.75	10.28	—	10.28	7.28	10.28	6.53	12.53	10.53	16.53	19.53
OESA-F30J6-F	30A	4.73	7.07	11.61	4.73	11.61	8.61	11.61	7.85	13.85	11.86	17.86	20.86
OESA-F60J6-F	60A	4.73	7.07	11.61	4.73	11.61	8.61	11.61	7.85	13.85	11.86	17.86	20.86
OESA-F100J6-F	100A	4.30	6.64	11.17	4.30	11.17	8.17	11.17	7.42	13.42	11.42	17.42	20.42

[a] C=10 applies only to Bulletin A17.
[b] For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

ABB Controls Circuit Breakers with Flange-Mounted Operators

		Wire Bend Space Above Disconnect										
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
K2FHD-M	100A	3.39	5.73	10.26	3.39	10.26	7.26	10.26	6.52	12.52	10.52	16.52	19.52
K3FHD-M	150A, 225A	—	—	5.56	—	5.56	—	5.56	—	7.82	5.85	11.82	14.82
K4FHD-M	250A	—	—	3.95	—	3.95	—	3.95	—	6.21	4.21	10.21	13.21
K5FHD-M	400A	—	—	—	—	—	—	—	—	6.21	—	10.21	13.21
K5FHD-M	600/800A	—	—	—	—	—	—	—	—	—	—	10.16	13.16

[a] C=10 applies only to Bulletin A17.
[b] For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

ABB Controls
E1 Cutout by Enclosure Height

Bulletin Number	Height A		E1	
	in.	mm	in.	mm
A21, A21S	60.12	1527	7.88	200
	72.12	1832	13.88	353
A28, A28S, A34	72.12	1832	11.88	302
	84.12	2137	17.88	454
	90.12	2289	20.88	530

Eaton Cutler-Hammer C361 Disconnect Switches

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[b] W1	When C=12[c] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
C361NC	30A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361SC21	30A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361SC61	30A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361ND	60A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361SD22	60A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361SD62	60A	3.44	5.75	10.31	3.44	10.31	7.31	10.31	6.50	12.50	10.50	16.50	19.50
C361NE	100A	3.00	5.38	9.91	3.00	9.91	7.47	9.91	6.06	12.06	10.06	16.06	19.06
C361SE263	100A	3.00	5.38	9.91	3.00	9.91	7.47	9.91	6.06	12.06	10.06	16.06	19.06
C361NF[a]	200A	—	—	7.94	—	7.94	4.94	7.94	4.06	10.06	8.06	14.06	17.06
C361SF264[a]	200A	—	—	7.94	—	7.94	4.94	7.94	4.06	10.06	8.06	14.06	17.06

a 200 amp switch should be installed in an enclosure with an A dimension of 30.00 in. (762 mm) or more.
b C=10 applies only to Bulletin A17.
c For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Eaton Cutler-Hammer C371 Circuit Breaker Operators for C-H/Westinghouse Circuit Breakers

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[d] W1	When C=12[e] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
C371E	225A	4.44	6.81	11.44	4.44	11.44	8.44	11.44	7.62	13.62	11.62	17.62	20.62
C371E	150A	4.44	6.81	11.44	4.44	11.44	8.44	11.44	7.62	13.62	11.62	17.62	20.62
C371F	225A	—	6.75	11.25	—	11.25	—	11.25	11.44	17.44	—	20.44	—
C371F	400A	—	—	10.75	—	10.25	—	10.75	7.00	13.00[a]	11.00	17.00	20.00
C371G	600A	—	—	9.18	—	9.18	—	9.18	—	11.38[b]	9.38	15.38	18.38
C371K	800A	—	—	—	—	—	—	—	—	—	—	11.81	14.81
C371K	1200A	—	—	—	—	—	—	—	—	—	—	11.81[c]	14.81

a Available wire bend space W1 does not allow cable sizes larger than 4/0 AWG in a 60.12-in. tall enclosure.
b Available wire bend space W1 does not allow cable sizes larger than 300 MCM.
c Available wire bend space W1 does not allow cable sizes larger than 350 MCM in a 90.12-in. tall enclosure when using 4 cable per terminal. See National Electrical Code® 2008 table 373-6(b) for more information. Available wire bend space W1 is insufficient for use with Westinghouse breakers equipped with TA1201NB1 terminals.
d C=10 applies only to Bulletin A17.
e For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Eaton Cutler-Hammer C371 E1 Cutout by Enclosure Height

Bulletin Number	Height A		E1	
	in.	mm	in.	mm
A21, A21S	60.12	1527	7.88	200
	72.12	1832	13.88	353
A28, A28S, A34	72.12	1832	11.88	302
	84.12	2137	17.88	454
	90.12	2289	20.88	530

Eaton Cutler-Hammer Type SM Safety Handle Mechanisms for C-H/Westinghouse Circuit Breakers

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21		Bulletin A28, A34		
Handle Mechanism	Use with Circuit Breaker	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
SM101PR	FB Tri-Pac	—	—	—	—	—	—	—	6.50	12.50	10.50	16.50	19.50
SM150R	F Frame EHD, FDB, FD, HFD, FDC	—	—	—	—	—	—	—	6.50	12.50	10.50	16.50	19.50
SM250JR	J Frame JDB, JD, HJD, JDC	—	—	—	—	—	—	—	—	10.00	8.00	14.00	17.00
SM400KR	K Frame DK, KDB, KD, HKD	—	—	—	—	—	—	—	—	9.62	7.62	13.62	16.62
SM400PR	LA Tri-Pac	—	—	—	—	—	—	—	—	9.75	7.75	13.75	16.75
SM600R	L Frame LD, HLD, LDC	—	—	—	—	—	—	—	—	—	—	12.88	15.88
SM800R	M Frame MD, MDS, HMD	—	—	—	—	—	—	—	—	—	—	10.16	13.16
SM800PR	NB Tri-Pac	—	—	—	—	—	—	—	—	—	—	10.16	13.16

a C=10 applies only to Bulletin A17.
b For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Eaton Cutler-Hammer Type SM E1 Cutout by Enclosure Height

Bulletin Number	Height A in.	mm	E1, up to type SM200 in.	mm	E1, SM200 and larger in.	mm
A21	60.12	1527	7.31	186	6.88	175
	72.12	1832	13.31	338	12.88	327
A28, A34	72.12	1832	11.31	287	10.88	276
	84.12	2137	17.31	440	16.88	429
	90.12	2289	20.31	516	19.88	505

General Electric Type STDA Disconnect Switch Operators

		Wire Bend Space Above Disconnect										
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 [a] W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
TDOM1A	30A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM1B	30A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM1A	60A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM1B	60A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM1A	100A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM1B	100A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	8.38	14.38	12.38	18.38	21.38
TDOM2	200A	—	—	9.50	—	9.50	6.50	9.50	5.69	11.69	9.69	15.69	18.69

a C=10 applies only to Bulletin A17.
b For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

General Electric Type STDA Circuit Breaker Operators

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 [a] W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[b] W1	When C=12[c] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
SDOM1A	150A	6.06	7.50	12.06	5.19	12.06	9.06	12.06	7.24	13.24	11.24	17.24	20.24
SDOM3	250A	—	6.06	10.62	—	10.62	7.06	10.06	6.81	12.81	10.81	16.81	19.81
SDOM4	600A	—	—	7.93	—	7.93	—	7.93	—	9.18	—	13.18	16.18
TDOM1A-C	150A	6.06	7.50	12.06	5.19	12.06	9.06	12.06	7.24	13.24	11.24	17.24	0.24
TDOM1D	150A	—	5.12	9.62	—	9.62	6.62	9.62	5.87	11.87	9.87	15.87	18.87
TDOM3	225A	—	6.06	10.62	—	10.62	7.62	10.62	6.81	12.81	10.81	16.81	19.81
TDOM4	400A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	—	11.91	9.91	15.91	18.91
TDOM4	600A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	—	11.91	9.91	15.91	18.91
TDOM5	400A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	—	11.91	9.91	15.91	18.91
TDOM6	225A	6.18	7.62	12.12	5.30	12.12	9.12	12.12	—	11.35	—	15.35	18.35
TDOM6	400A	—	5.12	9.69	—	9.69	6.69	9.69	—	9.97	—	13.97	16.97
TDOM6	800A-1200A	—	—	—	—	—	—	—	—	—	—	—	18.38
TDOM6	1200A	—	—	—	—	—	—	—	—	—	—	—	18.38
TDOM7	600A	—	—	—	—	—	—	—	—	—	—	12.25	15.25
TDOM7	800A	—	—	—	—	—	—	—	—	—	—	12.25	15.25
TDOM7	1200A	—	—	—	—	—	—	—	—	—	—	—	15.25

a Disconnect moved down .88 inch to fit on panel.
b C=10 applies only to Bulletin A17.
c For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

General Electric Type STDA E1 Cutout by Enclosure Height

Bulletin Number	Height A in.	mm	E1 in.	mm
A21, A21S	60.12	1527	7.88	200
	72.12	1832	13.88	353
A28, A28S, A34	72.12	1832	11.88	302
	84.12	2137	17.88	454
	90.12	2289	20.88	530

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
TCN-30	30A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TCF-30	30A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TCF-33	30A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TDN-60	60A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TDF-60	60A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TDF-63	60A	3.69	6.03	10.56	3.69	10.56	7.56	10.56	6.75	12.75	10.75	16.75	19.75
TEN-10	100A	—	5.91	10.44	—	10.44	7.44	10.44	6.62	12.62	10.62	16.62	19.62
TEF-10	100A	—	5.91	10.44	—	10.44	7.44	10.44	6.62	12.62	10.62	16.62	19.62
TEF-13	100A	—	5.91	10.44	—	10.44	7.44	10.44	6.62	12.62	10.62	16.62	19.62
TC-1	30A	3.12	5.12	9.62	3.12	9.62	6.62	9.62	5.88	11.88	9.88	15.88	18.88
TC-2	30A	3.12	5.12	9.62	3.12	9.62	6.62	9.62	5.88	11.88	9.88	15.88	18.88
TC-3	30A	3.12	5.12	9.62	3.12	9.62	6.62	9.62	5.88	11.88	9.88	15.88	18.88
TD-1	60A	3.62	6.00	10.50	3.62	10.50	7.50	10.50	6.75	12.75	10.75	16.75	19.75
TD-2	60A	3.62	6.00	10.50	3.62	10.50	7.50	10.50	6.75	12.75	10.75	16.75	19.75
TD-3	60A	3.62	6.00	10.50	3.62	10.50	7.50	10.50	6.75	12.75	10.75	16.75	19.75
TE-1	100A	—	5.75	10.25	—	10.25	—	10.25	6.50	12.50	10.50	16.50	19.50
TE-2	100A	—	5.75	10.25	—	10.25	—	10.25	6.50	12.50	10.50	16.50	19.50
TE-3	100A	—	5.75	10.25	—	10.25	—	10.25	6.50	12.50	10.50	16.50	19.50
TF-1	200A	—	—	8.88	—	8.88	—	8.88	5.12	11.12	9.12	15.12	18.12
TF-2	200A	—	—	8.88	—	8.88	—	8.88	5.12	11.12	9.12	15.12	18.12
TF-3	200A	—	—	8.88	—	8.88	—	8.88	5.12	11.12	9.12	15.12	18.12

a C=10 applies only to Bulletin A17.
b For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Schneider Square D Class 9422 Variable Depth Operators-Circuit Breakers

		Wire Bend Space Above Disconnect											
		Bulletin A25, A26			Bulletin CWD, CWSD		Bulletin A17, A19, A19S		Bulletin A21, A21S		Bulletin A28, A28S, A34		
Type Number	Amp Rating	When C=8 W1	When C=10 W1	When C=12 or 16 W1	When C=8 W1	When C=12 W1	When C=8 or 10[a] W1	When C=12[b] W1	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
RG-1	75A	3.59	5.93	10.47	3.59	10.47	7.47	10.47	6.69	12.69	10.69	16.69	19.69
RG-1	100A	3.59	5.93	10.47	3.59	10.47	7.47	10.47	6.69	12.69	10.69	16.69	19.69
RN-1	100A	3.75	6.12	10.62	3.75	10.62	7.62	10.62	6.88	12.88	10.88	16.88	19.88
RP-1	250A	4.25	6.88	11.38	—	11.38	8.38	11.38	7.56	13.56	11.56	17.56	20.56
RR-1	400A	—	—	7.00	—	7.00	—	7.00	—	9.25	—	13.25	16.25
RT-1	800A	—	—	—	—	—	—	—	—	—	—	13.25	16.12
RT-1	1000A	—	—	—	—	—	—	—	—	—	—	13.25	16.12

a C=10 applies only to Bulletin A17.
b For A24HS2412GQRLP use the C=8 or 10 column for W1 wire bend space.

Schneider Square D Class 9422 E1 Cutout by Enclosure Height

Bulletin Number	Height A in.	Height A mm	E1 in.	E1 mm
A21, A21S	60.12	1527	7.88	200
	72.12	1832	13.88	353
A28, A28S, A34	72.12	1832	11.88	302
	84.12	2137	17.88	454
	90.12	2289	20.88	530

Westinghouse Type AMT Below-Handle Mechanisms with Variable or Fixed Pivot Assemblies for Disconnect Switches

		Wire Bend Space Above Disconnect				
		Bulletin A21		Bulletin A28, A34		
Type Number	Amp Rating	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
DS16U	30A	9.28	14.78	13.28	18.78	21.78
DS121R	30A	9.28	14.78	13.28	18.78	21.78
DS161R	30A	9.28	14.78	13.28	18.78	21.78
DS122	30A	9.28	14.78	13.28	18.78	21.78
DS162	30A	9.28	14.78	13.28	18.78	21.78
DS26U	60A	9.28	14.78	13.28	18.78	21.78
DS222R	60A	9.28	14.78	13.28	18.78	21.78
DS262R	60A	9.28	14.78	13.28	18.78	21.78
DS263	60A	9.28	14.78	13.28	18.78	21.78
DS36U	100A	9.28	14.78	13.28	18.78	21.78
DS363R	100A	9.28	14.78	13.28	18.78	21.78
DS364	100A	9.28	14.78	13.28	18.78	21.78
DS46U	200A	7.00	12.50	11.00	16.50	19.50
DS464R	200A	7.00	12.50	11.00	16.50	19.50
DS465	200A	7.00	12.50	11.00	16.50	19.50

Westinghouse Type AMT Below-Handle Mechanisms with Variable or Fixed Pivot Assemblies for Circuit Breakers

		Wire Bend Space Above Disconnect				
		Bulletin A21		Bulletin A28, A34		
Type Number	Amp Rating	When A=60.12 W1	When A=72.12 W1	When A=72.12 W1	When A=84.12 W1	When A=90.12 W1
EB	100A	9.28	14.78	13.28	18.78	21.78
FB Tri-Pac	100A	9.28	14.78	13.28	18.78	21.78
MCP (0-4), Current Limiter	150A	9.28	14.78	13.28	18.78	21.78
F Frame/Series C	150A	9.28	14.78	13.28	18.78	21.78
J Frame/Series C	250A	9.28	14.78	13.28	18.78	21.78
K Frame/Series C	400A	9.28	14.78	13.28	18.78	21.78
LA, LAB, HLA, LC, HLC	600A	9.28	14.78	13.28	18.78	21.78
LA Tri-Pac	400A	9.28	14.78	13.28	18.78	21.78
MC, HMC, MA HMA	800A	9.28	14.78	13.28	18.78	21.78
NC, HNC, NB, HNB	1200A	9.28	14.78	13.28	18.78	21.78
NB Tri-Pac	800A	9.28	14.78	13.28	18.78	21.78

Westinghouse AMT Below Handle Mechanisms E1 Cutout by Enclosure Height

	Height			
Bulletin Number	A in.	mm	E1 in.	mm
A21	60.12	1527	9.12	278
	72.12	1832	14.62	446
A28, A34	72.12	1832	13.12	400
	84.12	2137	18.62	568
	90.12	2289	21.62	659

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A1UC	776, 777
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A16H16ALP3PT	27902	A4W3	97
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A8P6G	26069	PNLJ	1330
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A8R84HM	15354	A90RH	787
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A806CHFL	14876	A51FL	18
A806CHFTC	74340	A51	22
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A806LP	54060	A51LP	28
A806NF	55300	A51NF	26
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A806SC	54350	A51SC	24
A8063CHS	29271	A51CH	12
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A8064CHNFSS	56270	A51S	134
A8064CHNFSS6	83410	A51S	134
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A84XD6EW24FTCLP	16957	A28XM	432
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A864CHQRFGW	31260	A48	257
A864CHSCFG	29670	A48	257
A864CHSCFGW	31200	A48	257
A864DL	60000	A51	36
A864GSC	56100	A90GS	779
A864PHC	17072	PCR	251
A864PHCW	17084	PCR	251
A864SU	30186	A90P1	760
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A866DL	60030	A51	36
A88PSWPNL	17101	PCRY	254
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A8836RT	38390	F40PT	901
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A884GSC	56110	A90GS	779
A884PHC	17073	PCR	251
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A8896RT	13338	F40PT	901
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A90FSHDPS	74470	A80	1340
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CP1616	78530	CWP	1444
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CP2014	15633	CWP	1444
CP2014G	15636	CWP	1444
CP2016	78540	CWP	1444
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CP525512B	15208	C2	599
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CP525518B	15211	C2	599
CP525530	16225	C2	599

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CSD30208SS6	34623	CWS	157
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CSD30368LG	29474	CW1	74
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CSD30368SSR	34458	CWS	160
CSD362410	37549	CW1	76
CSD362410LG	37709	CW1	76
CSD362410SS	12872	CWS	157
CSD362410SS6	12904	CWS	157
CSD362412	77590	CW1	77
CSD362412EMCSS	26039	CWSEM	164
CSD362412LG	16129	CW1	77
CSD362412LGEMC	25779	A53	84
CSD362412SS	48850	CWS	157
CSD362412SS6	63320	CWS	157
CSD362416	29415	CW1	77
CSD362416LG	29476	CW1	77
CSD36246	29414	CW1	73
CSD36246LG	29475	CW1	73
CSD36248	77510	CW1	74
CSD36248LG	16049	CW1	75
CSD36248SS6	61950	CWS	157
CSD36248SS	78460	CWS	157
CSD36248SSST	26017	CWS2	163
CSD363010	37559	CW1	76
CSD363010LG	37719	CW1	76
CSD363010SS	12873	CWS	157
CSD363010SS6	12905	CWS	157
CSD363010ST	14466	CW2	87
CSD363012	77600	CW1	77
CSD363012LG	16139	CW1	77
CSD363012SS	48860	CWS	157
CSD363012SS6	63660	CWS	157
CSD363012SSST	26021	CWS2	163
CSD363012ST	14473	CW2	87
CSD363016	77670	CW1	77

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CSD363016LG	16209	CW1	77
CSD363016SS	34566	CWS	157
CSD363016SS6	34625	CWS	157
CSD363020	77710	CW1	78
CSD363020LG	16249	CW1	78
CSD36306	29416	CW1	73
CSD36306LG	29477	CW1	73
CSD36308	77520	CW1	75
CSD36308EMCSS	26019	CWSEM	164
CSD36308LG	16059	CW1	75
CSD36308LGEMC	25759	A53	84
CSD36308SS6	61960	CWS	157
CSD36308SS	78470	CWS	157
CSD36308SSST	26018	CWS2	163
CSD363610	37569	CW1	76
CSD363610LG	37729	CW1	76
CSD363610SS6R	14837	CWS	160
CSD363610SSR	14827	CWS	160
CSD363612	77610	CW1	77
CSD363612LG	16149	CW1	77
CSD363612SS6R	14843	CWS	161
CSD363612SSR	14833	CWS	161
CSD363612SSST	26022	CWS2	163
CSD363616	29417	CW1	77
CSD363616LG	29478	CW1	77
CSD36368	77530	CW1	75
CSD36368LG	16069	CW1	75
CSD36368SS6R	34593	CWS	160
CSD36368SSR	34585	CWS	160
CSD422410	29422	CW1	76
CSD422410LG	29483	CW1	76
CSD422410SS	34583	CWS	157
CSD422410SS6	34626	CWS	157
CSD42248	29418	CW1	75
CSD42248LG	29482	CW1	75
CSD423010	29424	CW1	76
CSD423010LG	29485	CW1	76
CSD423010SS	34584	CWS	157
CSD423010SS6	34627	CWS	157
CSD423012	29425	CW1	77
CSD423012LG	29486	CW1	77
CSD423016	29426	CW1	77
CSD423016LG	29487	CW1	77
CSD42308	29423	CW1	75
CSD42308LG	29484	CW1	75
CSD423610	41109	CW1	76
CSD423610LG	41149	CW1	76
CSD423610SS6R	14838	CWS	160
CSD423610SSR	14828	CWS	160
CSD423612	77620	CW1	77
CSD423612LG	16159	CW1	77
CSD423612SS6R	14844	CWS	161
CSD423612SSR	14834	CWS	161
CSD423616	29428	CW1	77
CSD423616LG	29516	CW1	77
CSD423616SS6R	34594	CWS	161
CSD423616SSR	34586	CWS	161
CSD42368	29427	CW1	75
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CSD482410LG	41159	CW1	76
CSD482410SS	12876	CWS	157
CSD482410SS6	12908	CWS	157
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CSD482412LG	16169	CW1	77
CSD48248	29429	CW1	75
CSD48248LG	29517	CW1	75
CSD483010	29433	CW1	76
CSD483010LG	29521	CW1	76
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CSD483016LG	29522	CW1	77
CSD48308	29432	CW1	75
CSD48308LG	29518	CW1	75
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CSD483612	77640	CW1	77
CSD483612LG	16179	CW1	77
CSD483612SS6R	14845	CWS	161
CSD483612SSR	14835	CWS	161
CSD483616	77680	CW1	77
CSD483616LG	16219	CW1	77
CSD483616SS6R	34595	CWS	161
CSD483616SSR	34587	CWS	161
CSD483616SSST	26023	CWS2	163
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CSD483620LG	29524	CW1	78
CSD48368	29435	CW1	75
CSD48368LG	29523	CW1	75
CSD603610	41139	CW1	76
CSD603610LG	41179	CW1	76
CSD603610SS6R	14842	CWS	161
CSD603610SSR	14832	CWS	160
CSD603612	77650	CW1	77
CSD603612LG	16189	CW1	77
CSD603612SS6R	14846	CWS	161
CSD603612SSR	14836	CWS	161
CSD603616	29438	CW1	78
CSD603616LG	29526	CW1	78
CSD603616SS6R	34596	CWS	161
CSD603616SSR	34588	CWS	161
CSD603616SSST	26024	CWS2	163
CSD603624SS6R	34597	CWS	161
CSD603624SSR	34462	CWS	161
CSD60368	29437	CW1	75
CSD60368LG	29525	CW1	75
CSD723016SS6R	34591	CWS	161
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CSD723612SSR	15252	CWS	161
CSD723616SSR	15295	CWS	161
CSF2424	78730	CWY	1440
CSF3024	78740	CWY	1440
CSF3624	78750	CWY	1440
CSP1212	11960	CWY	1442
CSP1612	11970	CWY	1442
CSP1616	11990	CWY	1442
CSP1620	12300	CWY	1442
CSP2016	12000	CWY	1442
CSP2020	12280	CWY	1442
CSP2024	12400	CWY	1442
CSP2416	12290	CWY	1442
CSP2420	12370	CWY	1442
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CSPB1212	16487	CWY	1442
CSPB1612	16488	CWY	1442
CSPB1616	16491	CWY	1442
CSPB1620	16492	CWY	1442
CSPB2016	16493	CWY	1442
CSPB2020	16494	CWY	1442
CSPB2024	16718	CWY	1442
CSPB2416	16495	CWY	1442
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CSPB4236	16507	CWY	1442
CSPB4824	16508	CWY	1442
CSPB4836	16511	CWY	1442
CSPB6036	16512	CWY	1442
CSPBADB	17168	CWY	1442
CT1420SS	16757	F23	926

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CT22AESS	15815	F23	923
CT22CPSS	15808	F23	923
CT22CSS	15791	F23	921
CT22EFC45SS	15765	F23	917
CT22EFC90SS	15734	F23	914
CT22EFCNT90SS	17765	F23	914
CT22EIC45SS	15753	F23	917
CT22EIC90SS	15741	F23	914
CT22EOC45SS	15758	F23	917
CT22EOC90SS	15746	F23	914
CT22HB	17153	F23	927
CT22LB	17154	F23	927
CT22P120SS	16097	F23	913
CT22PCSS	16573	F23	921
CT22PEFC45SS	16561	F23	917
CT22PEFC90SS	16554	F23	914
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CT22PTFCSS	16566	F23	919
CT22SCSS	16111	F23	926
CT22SPSS	16104	F23	925
CT22TFCSS	15772	F23	919
CT22TOCSS	15784	F23	919
CT22TSS	17824	F23	913
CT22UCSS	15803	F23	923
CT22VSS	17831	F23	919
CT22WB	17156	F23	927
CT22120SS	15727	F23	913
CT2233CEC	16755	F23	924
CT33AESS	15816	F23	923
CT33CPSS	15811	F23	923
CT33CSS	15792	F23	921
CT33DEFC45SS	16148	F23	922
CT33DEFC90SS	16117	F23	922
CT33DEIC45SS	16136	F23	922
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CT33EIC90SS	15742	F23	914
CT33EOC45SS	15761	F23	917
CT33EOC90SS	15747	F23	914
CT33HB	17157	F23	927
CT33LB	17158	F23	927
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CT33PCSS	16574	F23	921
CT33PEFC45SS	16562	F23	917
CT33PEFC90SS	16555	F23	914
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CT33TSS	17825	F23	913
CT33UCSS	15804	F23	923
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CT33WB	17161	F23	927
CT33120SS	15728	F23	913
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CT44AESS	15817	F23	923
CT44CPSS	15812	F23	923
CT44CSS	15793	F23	921
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CT44DEIC45SS	16137	F23	922
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CT44EIC90SS	15743	F23	914
CT44EOC45SS	15762	F23	917
CT44EOC90SS	15748	F23	914
CT44HB	17165	F23	927
CT44LB	17166	F23	927
CT44P120SS	16101	F23	913
CT44PCSS	16575	F23	921
CT44PEFC45SS	16563	F23	917
CT44PEFC90SS	16556	F23	914
CT44PEFCNT90SS	17774	F23	915
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CT44PTFCSS	16568	F23	919
CT44SCSS	16113	F23	926
CT44SPSS	16106	F23	925
CT44TDSPSS	18508	F23	914
CT44TFCSS	15774	F23	919
CT44TICSS	15781	F23	919
CT44TOCSS	15786	F23	919
CT44TSS	17826	F23	913
CT44UCSS	15805	F23	923
CT44VSS	17833	F23	919
CT44WB	17167	F23	927
CT44120SS	15731	F23	913
CT4422RSS	15824	F23	924
CT4433RSS	15823	F23	924
CT4466CEC	16756	F23	924
CT46AESS	15818	F23	923
CT46CPSS	15813	F23	923
CT46CSS	15794	F23	921
CT46DEFC45SS	16152	F23	922
CT46DEFC90SS	16121	F23	922
CT46DTFCSS	16157	F23	921
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CT46PEFC90SS	16557	F23	914
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CT46SPSS	16107	F23	925
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CT46120SS	15732	F23	913
CT4633RSS	15826	F23	924
CT4644RSS	15825	F23	924
CT66AESS	15821	F23	923
CT66CPSS	15814	F23	923
CT66CSS	15795	F23	921
CT66DEFC45SS	16153	F23	922
CT66DEFC90SS	16122	F23	922
CT66DEIC45SS	16141	F23	922
CT66DEIC90SS	16127	F23	922

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CT66DEOC45SS	16146	F23	922
CT66DEOC90SS	16134	F23	922
CT66DSPSS	15837	F23	925
CT66DSS	15802	F23	913
CT66DTFCSS	16158	F23	921
CT66DTICSS	16165	F23	921
CT66DTOCSS	16172	F23	921
CT66EFC45SS	15771	F23	917
CT66EFC90SS	15738	F23	914
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CT66EIC90SS	15745	F23	914
CT66EOC45SS	15764	F23	917
CT66EOC90SS	15752	F23	914
CT66HB	17162	F23	927
CT66LB	17163	F23	927
CT66P120SS	16103	F23	913
CT66PCSS	16577	F23	921
CT66PEFC45SS	16565	F23	917
CT66PEFC90SS	16558	F23	914
CT66PEFCNT90SS	17776	F23	915
CT66PSPSS	16584	F23	925
CT66PTFCSS	16572	F23	919
CT66SCSS	16115	F23	926
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CT66TDSPSS	18511	F23	914
CT66TFCSS	15776	F23	919
CT66TICSS	15783	F23	919
CT66TOCSS	15788	F23	919
CT66TSS	17828	F23	913
CT66UCSS	15807	F23	923
CT66VSS	17835	F23	919
CT66WB	17164	F23	927
CT6612OSS	15733	F23	913
CT6622RSS	15827	F23	924
CT6633RSS	15832	F23	924
CT6644RSS	15831	F23	924
CT6646RSS	15828	F23	924
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CTD244210LG	29527	CW1	82
CTD24428	77720	CW1	82
CTD24428LG	16519	CW1	82
CTD24488	29442	CW1	82
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CTD304810	29444	CW1	82
CTD304810LG	29532	CW1	82
CTD30488	77730	CW1	82
CTD30488LG	16529	CW1	82
CTD306012	77740	CW1	82
CTD306012LG	16539	CW1	82
CTD364212	29445	CW1	82
CTD364212LG	29533	CW1	82
CTD364216	29446	CW1	82
CTD364216LG	29534	CW1	82
CTD364812	77750	CW1	82
CTD364812LG	16549	CW1	82
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CTD366012LG	16559	CW1	82
CTD424212	29447	CW1	82
CTD424212LG	29535	CW1	82
CTD426012	29448	CW1	82
CTD426012LG	29536	CW1	82
CTD484812	29451	CW1	82
CTD484812LG	29537	CW1	82
CTLCH3SS	17821	F23	927
CTLCH4SS	17822	F23	927
CTLCHSS	17818	F23	927
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CTMB4001LS	15641	A90CM	819
CTMB8001	14436	A90CM	819
CTMB8003	14437	A90CM	819
CTMB8003L	14441	A90CM	819
CTS33CPLSS	17137	F23	923
CTS33CPRSS	16615	F23	923
CTS33CSS	16605	F23	921
CTS33EFC45SS	16595	F23	917
CTS33EFC90SS	16591	F23	914
CTS33P120SS	16627	F23	913
CTS33PCSS	16647	F23	921
CTS33PEFC45SS	16637	F23	917
CTS33PEFC90SS	16633	F23	914
CTS33PSPSS	16653	F23	925
CTS33PTFCSS	16643	F23	919
CTS33SPSS	16611	F23	925
CTS33TCLSS	17136	F23	926
CTS33TCRSS	17135	F23	926
CTS33TFCSS	16601	F23	919
CTS3312OSS	16585	F23	913
CTS44CPLSS	17142	F23	923
CTS44CPRSS	16616	F23	923
CTS44CSS	16606	F23	921
CTS44EFC45SS	16596	F23	917
CTS44EFC90SS	16592	F23	914
CTS44EFCNT90SS	17777	F23	915
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CTS44EIC90SS	17807	F23	916
CTS44EOC45SS	17801	F23	918
CTS44EOC90SS	17796	F23	916
CTS44P120SS	16628	F23	913
CTS44PCSS	16648	F23	921
CTS44PEFC45SS	16638	F23	917
CTS44PEFC90SS	16634	F23	914
CTS44PSPSS	16654	F23	925
CTS44PTFCSS	16644	F23	919
CTS44SPSS	16612	F23	925
CTS44TCLSS	17141	F23	926
CTS44TCRSS	17138	F23	926
CTS44TFCOSS	17793	F23	920
CTS44TFCSS	16602	F23	919
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CTS4412OSS	16586	F23	913
CTS4433RLSS	15801	F23	924
CTS4433RRSS	16621	F23	924
CTS46CPLSS	17147	F23	923
CTS46CPRSS	16617	F23	923
CTS46CSS	16607	F23	921
CTS46EFC45SS	16597	F23	917
CTS46EFC90SS	16593	F23	914
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CTS46EOC45SS	17802	F23	918
CTS46EOC90SS	17797	F23	916
CTS46P120SS	16631	F23	913
CTS46PCSS	16651	F23	921
CTS46PEFC45SS	16641	F23	917
CTS46PEFC90SS	16635	F23	914
CTS46PSPSS	16655	F23	925
CTS46PTFCSS	16645	F23	919
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CTS46TFCSS	16603	F23	919
CTS46TICSS	17816	F23	920
CTS46TOCSS	17805	F23	920
CTS4612OSS	16587	F23	913
CTS4633RLSS	17144	F23	924
CTS4633RRSS	16623	F23	924
CTS4644RLSS	17143	F23	924
CTS4644RRSS	16622	F23	924
CTS66CPLSS	17155	F23	923
CTS66CPRSS	16618	F23	923
CTS66CSS	16608	F23	921

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CTS66EFC45SS	16598	F23	917
CTS66EFC90SS	16594	F23	914
CTS66EFCNT90SS	17781	F23	915
CTS66EFCO45SS	17787	F23	918
CTS66EFCO90SS	17792	F23	915
CTS66EFCONT90SS	17784	F23	916
CTS66EIC45SS	17814	F23	918
CTS66EIC90SS	17811	F23	916
CTS66EOC45SS	17803	F23	918
CTS66EOC90SS	17798	F23	916
CTS66P120SS	16632	F23	913
CTS66PCSS	16652	F23	921
CTS66PEFC45SS	16642	F23	917
CTS66PEFC90SS	16636	F23	914
CTS66PSPSS	16656	F23	925
CTS66PTFCSS	16646	F23	919
CTS66SPSS	16614	F23	925
CTS66TFCOSS	17795	F23	920
CTS66TFCSS	16604	F23	919
CTS66TICSS	17817	F23	920
CTS66TOCSS	17806	F23	920
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F101090SEGV	45680	F40GF	844
F101090TXGV	45370	F40GF	844
F101096RTGV	13833	F40GT	903
F1212G1010R	41360	F40PF	846, 855, 862
F1212G12	51820	F40	858
F1212G120	51870	F40	858
F1212G12H	16742	F40	858
F1212G120H	16751	F40	858
F1212G24	51830	F40	858
F1212G24H	16743	F40	858
F1212G36	51840	F40	858
F1212G36H	16744	F40	858
F1212G45E	51910	F40PF	853, 861
F1212G48	51850	F40	858
F1212G48H	16745	F40	858
F1212G60	51860	F40	858
F1212G60H	16746	F40	858
F1212G72	13291	F40	858
F1212G72H	16747	F40	858
F1212G88R	52000	F40PF	846, 855, 862
F1212G90E	51890	F40PF	852, 860
F1212G90SE	51900	F40PF	851, 859
F1212G90TX	51880	F40PF	852, 860
F1212G96	13292	F40	858
F1212GA	51920	F40PF	853, 861
F1212GAGV	89010	F40GF	845
F1212GCP	51950	F40PF	854, 862
F1212GCPGV	89050	F40GF	846
F1212GCPNK	51960	F40PF	854, 862
F1212GCPNKGV	89060	F40GF	846
F1212GDB	51970	F40PF	847, 854, 862
F1212GOA	51990	F40PF	853, 861
F1212GPA	51930	F40PF	853, 861
F1212GPAGV	89020	F40GF	846
F1212GSH	51980	F40PF	854, 863
F1212GSHGV	89090	F40GF	846
F1212GT	89190	F40PF	851, 859
F1212GTGV	89140	F40GF	843
F1212GUC	51940	F40PF	855, 863
F1212GUCGV	89040	F40GF	847
F1212T112GV	88910	F40G	843
F1212T1120GV	88960	F40G	843
F1212T112GVP	36399	F40FC	850
F1212T1120GVP	36449	F40FC	850
F1212T112GVPWK	16703	F40FC	850
F1212T124GV	88920	F40G	843
F1212T124GVP	36409	F40FC	850
F1212T124GVPWK	16704	F40FC	850
F1212T	13172	F40PF	851, 859
F1212T136GV	88930	F40G	843
F1212T136GVP	36419	F40FC	850
F1212T136GVPWK	16705	F40FC	850
F1212T148GV	88940	F40G	843
F1212T148GVP	36429	F40FC	850
F1212T148GVPWK	16706	F40FC	850
F1212T160GV	88950	F40G	843
F1212T160GVP	36439	F40FC	850
F1212T160GVPWK	16707	F40FC	850
F1212T24HC	16790	F20HC	905
F1212T36HC	16800	F20HC	905
F1212T48HC	16810	F20HC	905
F1212T60HC	16820	F20HC	905
F1212TGV	13178	F40GF	843
F1212X	13186	F40PF	851, 859
F1212XGV	13194	F40GF	844
F1212116RTGV	13844	F40GT	903
F121224RTGV	13835	F40GT	903
F121224SCSS	30595	F24	910
F121236RTGV	13836	F40GT	903

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F121245EGV	89000	F40GF	845
F121248RTGV	13837	F40GT	903
F121248SCSS	30597	F24	910
F121260RTGV	13838	F40GT	903
F121260SCSS	30598	F24	910
F121272RTGV	13841	F40GT	903
F121272SCSS	30601	F24	910
F121284RTGV	13842	F40GT	903
F121290EGV	88980	F40GF	844
F121290EIN	13142	F40PF	852, 860
F121290EINGV	13148	F40GF	845
F121290EOUT	13156	F40PF	852, 860
F121290EOUTGV	13164	F40GF	845
F121290SEGV	88990	F40GF	844
F121290TXGV	88970	F40GF	844
F121296RTGV	13843	F40GT	903
F126L06	18720	F10	870
F126L12	18730	F10	870
F126L120	18780	F10	870
F126L24	18740	F10	870
F126L36	18750	F10	870
F126L48	18760	F10	870
F126L60	18770	F10	870
F126LA	18960	F10	871
F126LB	18880	F10	876
F126LC	18860	F10	871
F126LE45A	18840	F10	873
F126LE9A	18810	F10	872
F126LE9B	18820	F10	872
F126LE9C	18830	F10	872
F126LP	18870	F10	875
F126LRE44	18890	F10	875
F126LRE66	18900	F10	875
F126LSAG	18920	F10	878
F126LSGQR	19990	F10	878
F126LTA	18850	F10	874
F126LX	18790	F10	871
F126LXL	18800	F10	871
F1414116RTGV	13851	F40GT	903
F141448RTGV	13845	F40GT	903
F141472RTGV	13846	F40GT	903
F141496RTGV	13848	F40GT	903
F22G12	52010	F40	858
F22G120	52060	F40	858
F22G120WK	52710	F40	858
F22G12WK	52850	F40	858
F22G24	52020	F40	858
F22G24WK	52860	F40	858
F22G36	52030	F40	858
F22G36WK	52870	F40	858
F22G45E	52080	F40PF	853, 861
F22G48	52040	F40	858
F22G48WK	52880	F40	858
F22G60	52050	F40	858
F22G60WK	52890	F40	858
F22G90E	52510	F40PF	852, 860
F22G90SE	52570	F40PF	851, 859
F22G90TX	52070	F40PF	852, 860
F22GA	52540	F40PF	853, 861
F22GAGV	88030	F40GF	845
F22GCP	52110	F40PF	854, 862
F22GCPGV	88070	F40GF	846
F22GCPNK	52810	F40PF	854, 862
F22GCPNKGV	88080	F40GF	846
F22GDB	52120	F40PF	847, 854, 862
F22GOA	52140	F40PF	853, 861
F22GPA	52090	F40PF	853, 861
F22GPAGV	88040	F40GF	846
F22GSH	52130	F40PF	854, 863
F22GSHGV	88100	F40GF	846
F22GT	89150	F40PF	851, 859
F22GTGV	89100	F40GF	843
F22GUC	52100	F40PF	855, 863
F22GUCGV	88060	F40GF	847
F22HB	14180	F20	876, 886
F22HD	14170	F20	876, 886
F22L06	18010	F10	870
F22L12	18020	F10	870
F22L120	18070	F10	870
F22L24	18030	F10	870
F22L36	18040	F10	870
F22L48	18050	F10	870
F22L60	18060	F10	870
F22LA	18930	F10	871
F22LB	18210	F10	876
F22LC	18190	F10	871
F22LE45A	18140	F10	873
F22LE45B	18150	F10	873
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F22LE9A	18110	F10	872
F22LE9B	18120	F10	872
F22LE9C	18130	F10	872
F22LE9KOKT	19760	F10	877
F22LE9KT	19750	F10	877
F22LJ	18100	F10	874
F22LKOKT	19780	F10	877
F22LKT	19770	F10	877
F22LN1	19870	F10	875
F22LN2	19880	F10	875
F22LN3	19890	F10	875
F22LP	18200	F10	875
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F22LSGQR	19960	F10	878
F22LTA	18170	F10	874
F22LTC	18180	F10	874
F22LX	18080	F10	871
F22LXL	18090	F10	871
F22T112GV	87870	F40G	842
F22T1120GV	87970	F40G	842
F22T112GVP	35869	F40FC	850
F22T1120GVP	35969	F40FC	850
F22T112GVPWK	13293	F40FC	850
F22T1120GVPWK	13297	F40FC	850
F22T112GVWK	87880	F40G	842
F22T1120GVWK	87980	F40G	842
F22T12HC	16500	F20HC	905
F22T124GV	87890	F40G	842
F22T124GVP	35889	F40FC	850
F22T124GVPWK	13294	F40FC	850
F22T124GVWK	87900	F40G	842
F22T	13165	F40PF	851, 859
F22T136GV	87910	F40G	842
F22T136GVP	35909	F40FC	850
F22T136GVPWK	13295	F40FC	850
F22T136GVWK	87920	F40G	842
F22T148GV	87930	F40G	842
F22T148GVP	35929	F40FC	850
F22T148GVPWK	13296	F40FC	850
F22T160GV	87950	F40G	842
F22T160GVP	35949	F40FC	850
F22T160GVPWK	35939	F40FC	850
F22T160GVWK	87960	F40G	842
F22T18HC	16510	F20HC	905
F22T24HC	16520	F20HC	905
F22T36HC	16540	F20HC	905
F22T48HC	16550	F20HC	905
F22T60HC	16560	F20HC	905
F22T72HC	16570	F20HC	905
F22TGV	13173	F40GF	843
F22W12	14010	F20	882
F22W120	14060	F20	882
F22W24	14020	F20	882
F22W36	14030	F20	882
F22W48	14040	F20	882
F22W60	14050	F20	882
F22WA	14120	F20	883
F22WB	14160	F20	886
F22WC	14090	F20	883
F22WE225	15740	F20	883
F22WE45	14080	F20	884
F22WE90	14070	F20	884
F22WFF	15780	F20	882

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F22WN2	14820	F20	885
F22WN3	14830	F20	885
F22WN6	14840	F20	885
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F22WSA	14140	F20	886
F22WSC	14150	F20	886
F22WT	14110	F20	884
F22WX	14130	F20	883
F22X	13181	F40PF	851, 859
F22XGV	13187	F40GF	844
F2212SC	15350	F20SC	907
F2245EGV	88020	F40GF	845
F2290EGV	88000	F40GF	844
F2290EIN	13135	F40PF	852, 860
F2290EINGV	13143	F40GF	845
F2290EOUT	13151	F40PF	852, 860
F2290EOUTGV	13157	F40GF	845
F2290SEGV	88010	F40GF	844
F2290TXGV	87990	F40GF	844
F33BK60	15626	F20	855, 863, 877
F33G22R	16657	F40PF	855, 862
F33G45E	15487	F40PF	853, 861
F33G90E	15486	F40PF	852, 860
F33G90TX	15488	F40PF	852, 860
F33GCPNK	15493	F40PF	854, 862
F33GPA	15492	F40PF	853, 861
F33GT	15491	F40PF	851, 859
F33GUC	15494	F40PF	855, 863
F33T1120GVP	15485	F40FC	850
F33T160GVP	15484	F40FC	850
F44B360	20320	F10	878, 887
F44BB2C	20270	F10	878, 887
F44BB3C	20290	F10	878, 887
F44BK60	19570	F20	855, 863, 877, 887
F44G12	52170	F40	858
F44G120	52220	F40	858
F44G120WK	52760	F40	858
F44G12WK	52900	F40	858
F44G18	33759	F40	858
F44G22R	52280	F40PF	846, 855, 862
F44G24	52180	F40	858
F44G24WK	52910	F40	858
F44G33R	15627	F40PF	855, 862
F44G36	52190	F40	858
F44G36WK	52920	F40	858
F44G45E	52240	F40PF	853, 861
F44G48	52200	F40	858
F44G48WK	52930	F40	858
F44G60	52210	F40	858
F44G60WK	52940	F40	858
F44G72	51730	F40	858
F44G72WK	51740	F40	858
F44G90E	52520	F40PF	852, 860
F44G90SE	52580	F40PF	851, 859
F44G90TX	52230	F40PF	852, 860
F44G96	13285	F40PF	858
F44GA	52550	F40PF	853, 861
F44GAGV	88300	F40GF	845
F44GCP	52270	F40PF	854, 862
F44GCPGV	88340	F40GF	846
F44GCPNK	52820	F40PF	854, 862
F44GCPNKGV	88350	F40GF	846
F44GDB	52290	F40PF	847, 854, 862
F44GOA	52310	F40PF	853, 861
F44GPA	52250	F40PF	853, 861
F44GPAGV	88310	F40GF	846
F44GSH	52300	F40PF	854, 863
F44GSHGV	88380	F40GF	846
F44GT	89160	F40PF	851, 859
F44GTGV	89110	F40GF	843
F44GUC	52260	F40PF	855, 863
F44GUCGV	88330	F40GF	847
F44HB	14390	F20	876, 886
F44HBEP	19480	F25	895
F44HBSS	16000	F22	891
F44HD	14380	F20	876, 886
F44HDSS	16010	F22	891
F44L06	18240	F10	870
F44L12	18250	F10	870
F44L120	18300	F10	870
F44L24	18260	F10	870
F44L36	18270	F10	870
F44L48	18280	F10	870
F44L60	18290	F10	870
F44LA	18940	F10	871
F44LB	18440	F10	876
F44LC	18420	F10	871
F44LE45A	18370	F10	873
F44LE45B	18380	F10	873
F44LE45C	18390	F10	873
F44LE9A	18340	F10	872
F44LE9AC	16410	F10	872
F44LE9B	18350	F10	872
F44LE9C	18360	F10	872
F44LE9KOKT	19800	F10	877
F44LE9KT	19790	F10	877
F44LJ	18330	F10	874
F44LKOKT	19820	F10	877
F44LKT	19810	F10	877
F44LN1	19900	F10	875
F44LN2	19910	F10	875
F44LN3	19920	F10	875
F44LP	18430	F10	875
F44LRE22	18450	F10	875
F44LSAG	18470	F10	878
F44LSGQR	19970	F10	878
F44LTA	18400	F10	874
F44LTC	18410	F10	874
F44LX	18310	F10	871
F44LXL	18320	F10	871
F44T112GV	88120	F40G	842
F44T1120GV	88240	F40G	842
F44T112GVP	35989	F40FC	850
F44T1120GVP	36109	F40FC	850
F44T112GVPWK	13298	F40FC	850
F44T1120GVPWK	36099	F40FC	850
F44T112GVWK	88130	F40G	842
F44T1120GVWK	88250	F40G	842
F44T118GV	33789	F40G	842
F44T118GVP	35879	F40FC	850
F44T12HC	16580	F20HC	905
F44T124GV	88140	F40G	842
F44T124GVP	36009	F40FC	850
F44T124GVPWK	13301	F40FC	850
F44T124GVWK	88150	F40G	842
F44T	13166	F40PF	851, 859
F44T136GV	88160	F40G	842
F44T136GVP	36029	F40FC	850
F44T136GVPWK	13302	F40FC	850
F44T136GVWK	88170	F40G	842
F44T148GV	88180	F40G	842
F44T148GVP	36049	F40FC	850
F44T148GVPWK	13303	F40FC	850
F44T148GVWK	88190	F40G	842
F44T160GV	88200	F40G	842
F44T160GVP	36069	F40FC	850
F44T160GVPWK	36059	F40FC	850
F44T160GVWK	88210	F40G	842
F44T172GV	88220	F40G	842
F44T172GVP	36089	F40FC	850
F44T172GVPWK	36079	F40FC	850
F44T172GVWK	88230	F40G	842
F44T18HC	16590	F20HC	905
F44T24HC	16600	F20HC	905
F44T30HC	16610	F20HC	905
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F44T3R90E	43569	F30G	866
F44T3RCP	43609	F30G	866

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F44T3RPA	43599	F30G	866
F44T3RT	43579	F30G	865
F44T3RTX	43589	F30G	865
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F44T36HC	16620	F20HC	905
F44T48HC	16630	F20HC	905
F44T60HC	16640	F20HC	905
F44T72HC	16650	F20HC	905
F44TGV	13174	F40GF	843
F44W12	14200	F20	882
F44W120	14250	F20	882
F44W12FG	15820	F25	893
F44W12SS	15400	F22	889
F44W120SS	15720	F22	889
F44W12STFG	19100	F25	893
F44W120STFG	19150	F25	893
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F44W36STFG	19120	F25	893
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F44W48FG	15850	F25	893
F44W48SS	15430	F22	889
F44W48STFG	19130	F25	893
F44W60	14240	F20	882
F44W60FG	15860	F25	893
F44W60SS	15440	F22	889
F44W60STFG	19140	F25	893
F44WA	14310	F20	883
F44WASS	15490	F22	888
F44WB	14350	F20	886
F44WBFG	15930	F25	895
F44WBSS	15520	F22	891
F44WC	14280	F20	883
F44WCFG	15900	F25	893
F44WE225	15750	F20	883
F44WE45	14270	F20	884
F44WE45FG	15880	F25	894
F44WE45SS	15460	F22	889
F44WE90	14260	F20	884
F44WE90FG	15870	F25	894
F44WE90SS	15450	F22	890
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F44WFFFG	15910	F25	892
F44WFFSS	16020	F22	889
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F44WN1	14850	F20	885
F44WN2	14860	F20	885
F44WN3	14870	F20	885
F44WN6	14880	F20	885
F44WN6SS	15510	F22	891
F44WP	14290	F20	884
F44WPFG	15920	F25	894
F44WPSS	15470	F22	890
F44WR22	14360	F20	885
F44WRE22	14370	F20	885
F44WSA	14330	F20	886
F44WSC	14340	F20	886
F44WSCSS	15500	F22	891
F44WT	14300	F20	884
F44WTFG	15890	F25	894
F44WTSS	15480	F22	890
F44WX	14320	F20	883
F44WXFG	15940	F25	894
F44X	13182	F40PF	851, 859
F44XGV	13188	F40GF	844
F4412FG	15670	F25	909
F4412RTGV	14767	F40GT	903
F4412SC	15360	F20SC	907
F4412SCSS	30583	F24	910
F4418SC	15370	F20SC	907
F4418SCSS	30584	F24	910
F4424FG	15680	F25	909
F4424RTGV	13814	F40GT	903
F4424SC	15380	F20SC	907
F4424SCSS	30585	F24	910
F4430SC	15390	F20SC	907
F4436FG	15690	F25	909
F4436RTGV	14768	F40GT	903
F4445EGV	88290	F40GF	845
F4448FG	15700	F25	909
F4448RTGV	13815	F40GT	903
F4460FG	15710	F25	909
F4460RTGV	14771	F40GT	903
F4472RTGV	13816	F40GT	903
F4490EGV	88270	F40GF	844
F4490EIN	13136	F40PF	852, 860
F4490EINGV	13144	F40GF	845
F4490EOUT	13152	F40PF	852, 860
F4490EOUTGV	13158	F40GF	845
F4490SEGV	88280	F40GF	844
F4490TXGV	88260	F40GF	844
F66B560	20340	F10	878, 887
F66BB2C	20300	F10	878, 887
F66BB3C	20310	F10	878, 887
F66BK60	19630	F20	855, 863, 877, 887
F66G12	52340	F40	858
F66G120	52390	F40	858
F66G120WK	52770	F40	858
F66G12WK	52950	F40	858
F66G18	33769	F40	858
F66G24	52350	F40	858
F66G24WK	52960	F40	858
F66G36	52360	F40	858
F66G36WK	52970	F40	858
F66G44R	52450	F40PF	846, 855, 862
F66G45E	52410	F40PF	853, 861
F66G48	52370	F40	858
F66G48WK	52980	F40	858
F66G60	52380	F40	858
F66G60WK	52990	F40	858
F66G72	51750	F40	858
F66G72WK	51760	F40	858
F66G90E	52530	F40PF	852, 860
F66G90SE	52590	F40PF	851, 859
F66G90TX	52400	F40PF	852, 860
F66G96	13286	F40	858
F66GA	52560	F40PF	853, 861
F66GAGV	88590	F40GF	845
F66GCP	52440	F40PF	854, 862
F66GCPGV	88630	F40GF	846
F66GCPNK	52830	F40PF	854, 862
F66GCPNKGV	88640	F40GF	846
F66GDB	52460	F40PF	847, 854, 862
F66GOA	52480	F40PF	853, 861
F66GPA	52420	F40PF	853, 861
F66GPAGV	88600	F40GF	846
F66GSH	52470	F40PF	854, 863
F66GSHGV	88670	F40GF	846
F66GT	89170	F40PF	851, 859
F66GTGV	89120	F40GF	843
F66GUC	52430	F40PF	855, 863
F66GUCGV	88620	F40GF	847
F66HB	14600	F20	876, 886
F66HBEP	19490	F25	895
F66HBSS	16030	F22	891
F66HD	14590	F20	876, 886
F66HDSS	16040	F22	891
F66L06	18480	F10	870
F66L12	18490	F10	870
F66L120	18540	F10	870
F66L24	18500	F10	870
F66L36	18510	F10	870
F66L48	18520	F10	870
F66L60	18530	F10	870
F66LA	18950	F10	871

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F66LB	18680	F10	876
F66LC	18660	F10	871
F66LE45A	18610	F10	873
F66LE45B	18620	F10	873
F66LE45C	18630	F10	873
F66LE9A	18580	F10	872
F66LE9AC	19500	F10	872
F66LE9B	18590	F10	872
F66LE9C	18600	F10	872
F66LE9KOKT	19840	F10	877
F66LE9KT	19830	F10	877
F66LJ	18570	F10	874
F66LKOKT	19860	F10	877
F66LKT	19850	F10	877
F66LN1	19930	F10	875
F66LN2	19940	F10	875
F66LN3	19950	F10	875
F66LP	18670	F10	875
F66LRE44	18690	F10	875
F66LSAG	18710	F10	878
F66LSGQR	19980	F10	878
F66LTA	18640	F10	874
F66LTC	18650	F10	874
F66LX	18550	F10	871
F66LXL	18560	F10	871
F66T112GV	88410	F40G	842
F66T112OGV	88530	F40G	842
F66T112GVP	36129	F40FC	850
F66T112OGVP	36249	F40FC	850
F66T112GVPWK	13304	F40FC	850
F66T112OGVPWK	36239	F40FC	850
F66T112GVWK	88420	F40G	842
F66T112OGVWK	88540	F40G	842
F66T118GV	33799	F40G	842
F66T118GVP	35899	F40FC	850
F66T12HC	16660	F20HC	905
F66T124GV	88430	F40G	842
F66T124GVP	36149	F40FC	850
F66T124GVPWK	13305	F40FC	850
F66T124GVWK	88440	F40G	842
F66T	13167	F40PF	851, 859
F66T136GV	88450	F40G	842
F66T136GVP	36169	F40FC	850
F66T136GVPWK	13306	F40FC	850
F66T136GVWK	88460	F40G	842
F66T148GV	88470	F40G	842
F66T148GVP	36189	F40FC	850
F66T148GVPWK	13307	F40FC	850
F66T148GVWK	88480	F40G	842
F66T160GV	88490	F40G	842
F66T160GVP	36209	F40FC	850
F66T160GVPWK	36199	F40FC	850
F66T160GVWK	88500	F40G	842
F66T172GV	88510	F40G	842
F66T172GVP	36229	F40FC	850
F66T172GVPWK	36219	F40FC	850
F66T172GVWK	88520	F40G	842
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F66T30HC	16690	F20HC	905
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F66T3R120	43679	F30G	865
F66T3R30SE	43709	F30G	865
F66T3R44R	43789	F30G	866
F66T3R60	43659	F30G	865
F66T3R90E	43719	F30G	866
F66T3RCP	43759	F30G	866
F66T3RDH	43779	F30G	867
F66T3RPA	43749	F30G	866
F66T3RT	43729	F30G	865
F66T3RTX	43739	F30G	865
F66T3RUC	43699	F30G	867
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F66T72HC	16730	F20HC	905
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F66W24	14420	F20	882
F66W24FG	18980	F25	893
F66W24SS	15550	F22	889
F66W36	14430	F20	882
F66W36FG	18990	F25	893
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F66W48	14440	F20	882
F66W48FG	19000	F25	893
F66W48SS	15570	F22	889
F66W60	14450	F20	882
F66W60FG	19010	F25	893
F66W60SS	15580	F22	889
F66WA	14520	F20	883
F66WASS	15630	F22	888
F66WB	14560	F20	886
F66WBFG	19080	F25	895
F66WBSS	15650	F22	891
F66WC	14490	F20	883
F66WCFG	19050	F25	893
F66WE225	15760	F20	883
F66WE45	14480	F20	884
F66WE45FG	19030	F25	894
F66WE45SS	15600	F22	889
F66WE90	14470	F20	884
F66WE90FG	19020	F25	894
F66WE90SS	15590	F22	890
F66WFF	15800	F20	882
F66WFFFG	19060	F25	892
F66WFFSS	16050	F22	889
F66WG	14610	F20	887
F66WGSS	15660	F22	891
F66WN1	14890	F20	885
F66WN2	14900	F20	885
F66WN3	14910	F20	885
F66WN6	14920	F20	885
F66WN6SS	15640	F22	891
F66WP	14500	F20	884
F66WPFG	19070	F25	894
F66WPSS	15610	F22	890
F66WR44	14570	F20	885
F66WR44SS	16060	F22	890
F66WRE44	14580	F20	885
F66WRE44SS	16070	F22	890
F66WSA	14540	F20	886
F66WSC	14550	F20	886
F66WT	14510	F20	884
F66WTFG	19040	F25	894
F66WTSS	15620	F22	890
F66WX	14530	F20	883
F66WXFG	19090	F25	894
F66X	13183	F40PF	851, 859
F66XGV	13191	F40GF	844
F6612FG	15950	F25	909
F6612RTGV	14772	F40GT	903
F6612SCSS	30586	F24	910
F6618RTGV	14773	F40GT	903
F6624FG	15960	F25	909
F6624RTGV	13817	F40GT	903
F6624SCSS	30587	F24	910
F6636FG	15970	F25	909
F6636RTGV	14774	F40GT	903
F6636SCSS	30588	F24	910
F6645EGV	88580	F40GF	845
F6648FG	15980	F25	909
F6648RTGV	13818	F40GT	903
F6648SCSS	30591	F24	910
F6660FG	15990	F25	909
F6660RTGV	14775	F40GT	903
F6672RTGV	13821	F40GT	903
F6690EGV	88560	F40GF	844

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F6690EIN	13137	F40PF	852, 860
F6690EINGV	13145	F40GF	845
F6690EOUT	13153	F40PF	852, 860
F6690EOUTGV	13161	F40GF	845
F6690SEGV	88570	F40GF	844
F6690TXGV	88550	F40GF	844
F88BK60	19680	F20	855, 863, 877, 887
F88G12	52600	F40	858
F88G120	52650	F40	858
F88G18	33779	F40	858
F88G24	52610	F40	858
F88G36	52620	F40	858
F88G45E	52670	F40PF	853, 861
F88G48	52630	F40	858
F88G60	52640	F40	858
F88G66R	52720	F40PF	846, 855, 862
F88G72	51770	F40	858
F88G90E	52780	F40PF	852, 860
F88G90SE	52800	F40PF	851, 859
F88G90TX	52660	F40PF	852, 860
F88G96	13287	F40PF	858
F88GA	52790	F40PF	853, 861
F88GAGV	88810	F40GF	845
F88GCP	52700	F40PF	854, 862
F88GCPGV	88850	F40GF	846
F88GCPNK	52840	F40PF	854, 862
F88GCPNKGV	88860	F40GF	846
F88GDB	52730	F40PF	847, 854, 862
F88GOA	52750	F40PF	853, 861
F88GPA	52680	F40PF	853, 861
F88GPAGV	88820	F40GF	846
F88GSH	52740	F40PF	854, 863
F88GSHGV	88890	F40GF	846
F88GT	89180	F40PF	851, 859
F88GTGV	89130	F40GF	843
F88GUC	52690	F40PF	855, 863
F88GUCGV	88840	F40GF	847
F88HB	15000	F20	876, 886
F88HD	14990	F20	876, 886
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F88L120	19220	F10	870
F88L24	19180	F10	870
F88L36	19190	F10	870
F88L48	19200	F10	870
F88L60	19210	F10	870
F88LA	19340	F10	871
F88LB	19370	F10	876
F88LC	19310	F10	871
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F88LE45C	19280	F10	873
F88LE9A	19230	F10	872
F88LE9AC	19510	F10	872
F88LE9B	19240	F10	872
F88LE9C	19250	F10	872
F88LE9KOKT	19450	F10	877
F88LE9KT	19440	F10	877
F88LJ	19350	F10	874
F88LP	19360	F10	875
F88LRE66	19380	F10	875
F88LSAG	19400	F10	878
F88LSGQR	19390	F10	878
F88LTA	19290	F10	874
F88LTC	19300	F10	874
F88LX	19330	F10	871
F88LXL	19320	F10	871
F88T112GV	88700	F40G	842
F88T1120GV	88760	F40G	843
F88T112GVP	36259	F40FC	850
F88T1120GVP	36319	F40FC	850
F88T112GVPWK	16696	F40FC	850
F88T112GVWK	13312	F40G	842
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F88T124GVPWK	16697	F40FC	850
F88T124GVWK	13313	F40G	842
F88T	13168	F40PF	851, 859
F88T136GV	88720	F40G	843
F88T136GVP	36279	F40FC	850
F88T136GVPWK	16698	F40FC	850
F88T136GVWK	13314	F40G	842
F88T148GV	88730	F40G	843
F88T148GVP	36289	F40FC	850
F88T148GVPWK	16701	F40FC	850
F88T148GVWK	13315	F40G	843
F88T160GV	88740	F40G	843
F88T160GVP	36299	F40FC	850
F88T160GVPWK	16702	F40FC	850
F88T160GVWK	13316	F40G	843
F88T172GV	88750	F40G	843
F88T172GVP	36309	F40FC	850
F88T172GVWK	13317	F40G	843
F88T24HC	16750	F20HC	905
F88T3R12	43799	F30G	865
F88T3R120	43839	F30G	865
F88T3R30SE	43869	F30G	865
F88T3R60	43819	F30G	865
F88T3R66R	43949	F30G	866
F88T3R90E	43879	F30G	866
F88T3RCP	43919	F30G	866
F88T3RDH	43939	F30G	867
F88T3RPA	43909	F30G	866
F88T3RT	43889	F30G	865
F88T3RTX	43899	F30G	865
F88T3RUC	43859	F30G	867
F88T3RWH	43929	F30G	867
F88T36HC	16760	F20HC	905
F88T48HC	16770	F20HC	905
F88T60HC	16780	F20HC	905
F88TGV	13176	F40GF	843
F88W12	14620	F20	882
F88W120	14670	F20	882
F88W24	14630	F20	882
F88W36	14640	F20	882
F88W48	14650	F20	882
F88W60	14660	F20	882
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F88WRE44	14790	F20	885
F88WRE66	14770	F20	885
F88WSA	14970	F20	886
F88WSC	14980	F20	886
F88WT	14720	F20	884
F88WX	14740	F20	883
F88X	13184	F40PF	851, 859
F88XGV	13192	F40GF	844
F88116RTGV	13825	F40GT	903
F8812RTGV	14776	F40GT	903
F8824RTGV	13822	F40GT	903
F8824SCSS	30592	F24	910
F8836RTGV	14777	F40GT	903
F8836SCSS	30593	F24	910
F8845EGV	88800	F40GF	845
F8848RTGV	13823	F40GT	903
F8848SCSS	30594	F24	910

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F8860RTGV	14778	F40PT	903
F8872RTGV	13824	F40GT	903
F8890EGV	88780	F40GF	844
F8890EIN	13138	F40PF	852, 860
F8890EINGV	13146	F40GF	845
F8890EOUT	13154	F40PF	852, 860
F8890EOUTGV	13162	F40GF	845
F8890SEGV	88790	F40GF	844
F8890TXGV	88770	F40GF	844
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FS180654DHP0	27114	FS66S	218
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FS180654SHP0	27108	FS66S	217
FS180654SSP0	27107	FS66S	217
FS180656DHP0	27116	FS66S	218
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FS181054DHP0	27126	FS66S	218
FS181054DSP0	27125	FS66S	218
FS181054SHP0	27118	FS66S	217
FS181054SSP0	27117	FS66S	217
FS181056DHP0	27128	FS66S	218
FS181056DSP0	27127	FS66S	218
FS181056SHP0	27124	FS66S	217
FS181056SSP0	27123	FS66S	217
FS200884DHP0	27094	FS66S	218
FS200884DSP0	27093	FS66S	218
FS200884SHP0	27088	FS66S	217
FS200884SSP0	27087	FS66S	217
FS200886DHP0	27096	FS66S	218
FS200886DSP0	27095	FS66S	218
FS200886SHP0	27092	FS66S	217
FS200886SSP0	27091	FS66S	217
FS201284DHP0	27104	FS66S	220
FS201284DSP0	27103	FS66S	220
FS201284SHP0	27098	FS66S	219
FS201284SSP0	27097	FS66S	219
FS201286DHP0	27106	FS66S	220
FS201286DSP0	27105	FS66S	220
FS201286SHP0	27102	FS66S	219
FS201286SSP0	27101	FS66S	219
G1000P600	19026	A4GY	63
G1000P600H	19051	A4GY	64
G1000P800	19027	A4GY	63
G1000P800H	19052	A4GY	64
G1000SMP250	19085	A4GY	65
G1000SMP250H	19115	A4GY	65
G1000SMP300	19086	A4GY	65
G1000SMP300H	19116	A4GY	65
G1000SMP400	19087	A4GY	65
G1000SMP400H	19117	A4GY	65
G10006002506	19003	A4G	61
G10008003006	19004	A4G	61
G10008004006	19005	A4G	61
G1200P800	19028	A4GY	63
G1200P800H	19053	A4GY	64
G1200P900	19031	A4GY	63
G1200P900H	19054	A4GY	64
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G1200SMP325H	19122	A4GY	65
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G300P300H	19033	A4GY	64
G300P400H	19034	A4GY	64
G300SMP200	19065	A4GY	64
G300SMP200H	19095	A4GY	65
G300SMP225	19066	A4GY	64
G300SMP225H	19096	A4GY	65
G3003002256	18976	A4G	61
G3004002006	18977	A4G	61
G400P300	19014	A4GY	63
G400P300H	19035	A4GY	64
G400P400	19015	A4GY	63
G400P400H	19036	A4GY	64
G400P600H	19037	A4GY	64
G400SMP150	19067	A4GY	64
G400SMP150H	19097	A4GY	65
G400SMP225	19068	A4GY	64
G400SMP225H	19098	A4GY	65
G400300150	18978	A4G	61
G4003002256	18981	A4G	61
G4004002256	18982	A4G	61
G4006002256	18983	A4G	61
G500P400	19016	A4GY	63
G500P400H	19038	A4GY	64
G500P500	19017	A4GY	63
G500P500H	19041	A4GY	64
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G500SMP225H	19101	A4GY	65
G500SMP300	19072	A4GY	65
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G50SMR225	18476	A4GY	66
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