CONNECT AND PROTECT

Industrial/Commercial Specifier's Guide

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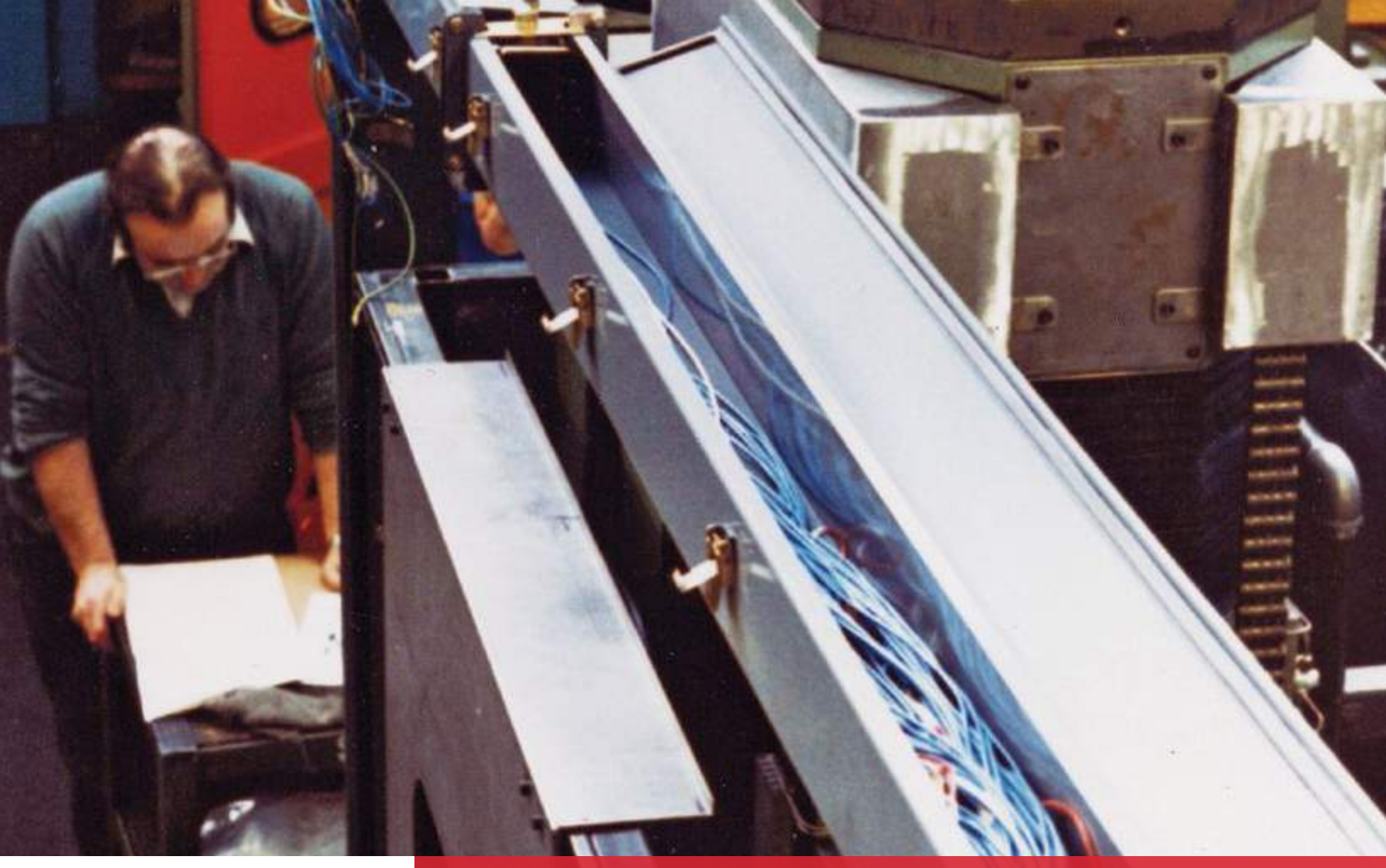

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CHAPTER 9
WIRE AND CABLE MANAGEMENT

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

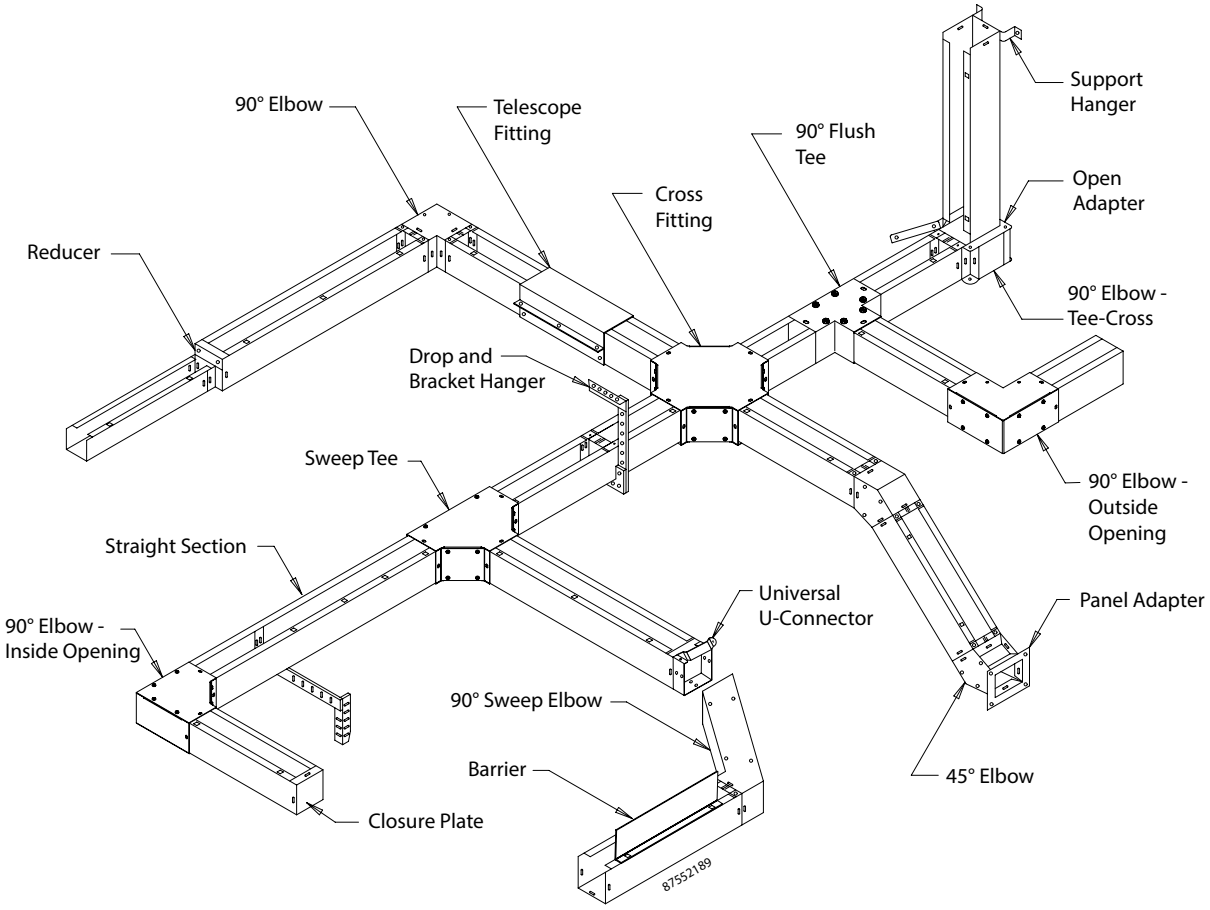
FINISH

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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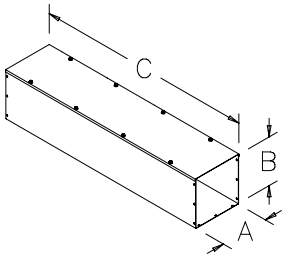
STRAIGHT SECTION



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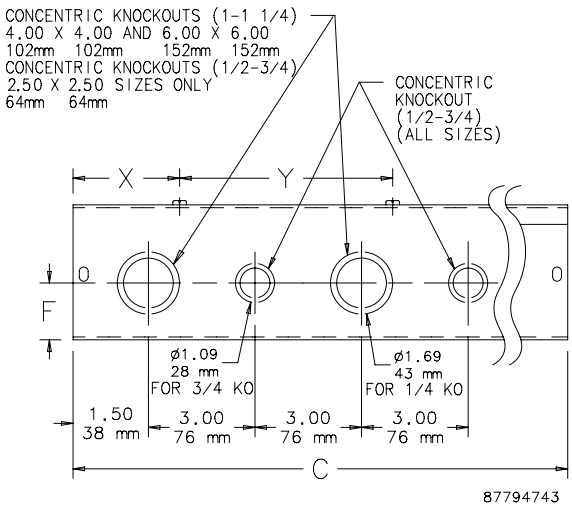

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PATTERN REPEATS EVERY 12.00 305 mm

Available in lengths from 12.00 in. (305 mm) to 120.00 in. (3048 mm), with or without knockouts.

BULLETIN: F40G

Straight Sections

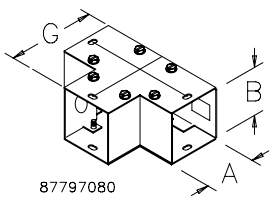
Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F22T112GVWK	2.50 x 2.50 x 12.00	64 x 64 x 305	8	—	1.06	27	3.00	76	6.00	152
F22T112GV	2.50 x 2.50 x 12.00	64 x 64 x 305	—	—	—	—	—	—	—	—
F22T124GVWK	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

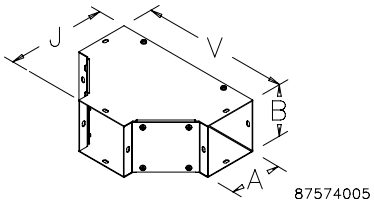


Catalog Number	AxB in./mm	G in./mm
F22GTGV	2.50 x 2.50 64 x 64	4.50 114
F44GTGV	4.00 x 4.00 102 x 102	6.00 152
F66GTGV	6.00 x 6.00 152 x 152	8.00 203
F88GTGV	8.00 x 8.00 203 x 203	10.00 254
F1010GTGV	10.00 x 10.00 254 x 254	12.00 305
F1212GTGV	12.00 x 12.00 305 x 305	14.00 356

GALVANIZED SWEEP TEE

For large radius turns. Mounts against vertical or horizontal surfaces. Top and inside covers removable.

BULLETIN: F40GF

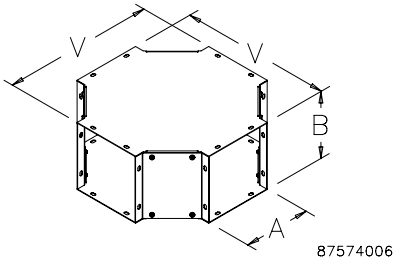


Catalog Number	AxB in./mm	J in./mm	V in./mm
F22TGV	2.50 x 2.50 64 x 64	6.50 165	10.35 263
F44TGV	4.00 x 4.00 102 x 102	8.00 203	11.85 301
F66TGV	6.00 x 6.00 152 x 152	10.00 254	13.85 352
F88TGV	8.00 x 8.00 203 x 203	12.00 305	15.84 402
F1010TGV	10.00 x 10.00 254 x 254	14.00 356	17.84 453
F1212TGV	12.00 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

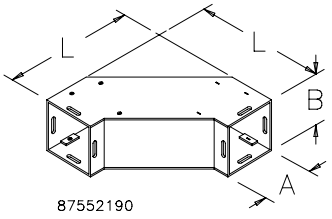


Catalog Number	AxB in./mm	V in./mm
F22XGV	2.50 x 2.50 64 x 64	10.35 263
F44XGV	4.00 x 4.00 102 x 102	11.85 301
F66XGV	6.00 x 6.00 152 x 152	13.85 352
F88XGV	8.00 x 8.00 203 x 203	15.84 402
F1010XGV	10.00 x 10.00 254 x 254	17.84 453
F1212XGV	12.00 x 12.00 305 x 305	19.84 504

GALVANIZED 90-DEGREE SWEEP ELBOW

90-Degree Sweep Elbow for large-radius turns.

BULLETIN: F40GF

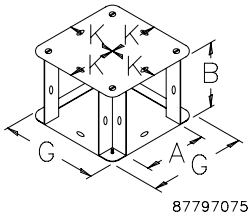


Catalog Number	AxB in./mm	L in./mm
F2290SEGV	2.50 x 2.50 64 x 64	7.91 201
F4490SEGV	4.00 x 4.00 102 x 102	9.41 239
F6690SEGV	6.00 x 6.00 152 x 152	11.34 288
F8890SEGV	8.00 x 8.00 203 x 203	13.44 341
F101090SEGV	10.00 x 10.00 254 x 254	15.62 395
F121290SEGV	12.00 x 12.00 305 x 305	17.44 443

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

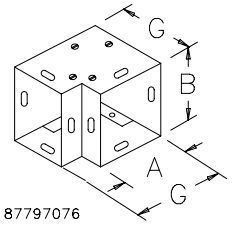


Catalog Number	AxB in./mm	G in./mm	K in./mm
F2290TXGV	2.50 x 2.50 64 x 64	4.50 114	2.25 57
F4490TXGV	4.00 x 4.00 102 x 102	6.00 152	3.00 76
F6690TXGV	6.00 x 6.00 152 x 152	8.00 203	4.00 102
F8890TXGV	8.00 x 8.00 203 x 203	10.00 254	5.00 127
F101090TXGV	10.00 x 10.00 254 x 254	12.00 305	6.00 152
F121290TXGV	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

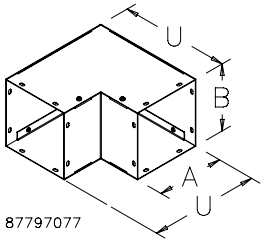


Catalog Number	AxB in./mm	G in./mm
F2290EGV	2.50 x 2.50 64 x 64	4.50 114
F4490EGV	4.00 x 4.00 102 x 102	6.00 152
F6690EGV	6.00 x 6.00 152 x 152	8.00 203
F8890EGV	8.00 x 8.00 203 x 203	10.00 254
F101090EGV	10.00 x 10.00 254 x 254	12.00 305
F121290EGV	12.00 x 12.00 305 x 305	14.00 356

GALVANIZED 90-DEGREE ELBOW—OUTSIDE OPENING

For continuous run with 90-degree turns. Top, bottom and outside covers removable.

BULLETIN: F40GF

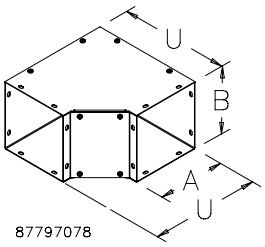


Catalog Number	AxB in./mm	U in./mm
F2290EOUTGV	2.50 x 2.50 64 x 64	6.50 165
F4490EOUTGV	4.00 x 4.00 102 x 102	8.00 203
F6690EOUTGV	6.00 x 6.00 152 x 152	10.00 254
F8890EOUTGV	8.00 x 8.00 203 x 203	12.00 305
F101090EOUTGV	10.00 x 10.00 254 x 254	14.00 356
F121290EOUTGV	12.00 x 12.00 305 x 305	16.00 406

GALVANIZED 90-DEGREE ELBOW—INSIDE OPENING

For continuous run with 90-degree turns. Top and inside covers removable.

BULLETIN: F40GF

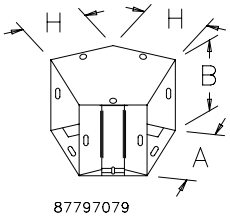


Catalog Number	AxB in./mm	U in./mm
F2290EINGV	2.50 x 2.50 64 x 64	6.50 165
F4490EINGV	4.00 x 4.00 102 x 102	8.00 203
F6690EINGV	6.00 x 6.00 152 x 152	10.00 254
F8890EINGV	8.00 x 8.00 203 x 203	12.00 305
F101090EINGV	10.00 x 10.00 254 x 254	14.00 356
F121290EINGV	12.00 x 12.00 305 x 305	16.00 406

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

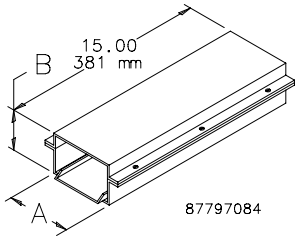


Catalog Number	AxB in./mm	H in./mm
F2245EGV	2.50 x 2.50 64 x 64	2.75 70
F4445EGV	4.00 x 4.00 102 x 102	3.38 86
F6645EGV	6.00 x 6.00 152 x 152	4.25 108
F8845EGV	8.00 x 8.00 203 x 203	5.06 129
F101045EGV	10.00 x 10.00 254 x 254	6.00 152
F121245EGV	12.00 x 12.00 305 x 305	6.75 171

GALVANIZED TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40GF



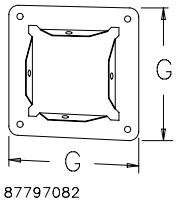
Catalog Number	AxB in./mm
F22GAGV	2.50 x 2.50 64 x 64
F44GAGV	4.00 x 4.00 102 x 102
F66GAGV	6.00 x 6.00 152 x 152
F88GAGV	8.00 x 8.00 203 x 203
F1010GAGV	10.00 x 10.00 254 x 254
F1212GAGV	12.00 x 12.00 305 x 305

Not UL/cUL listed.

GALVANIZED PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40GF

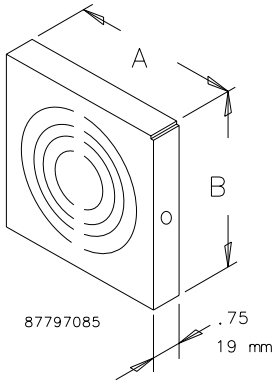


Catalog Number	G (in.)	G (mm)
F22GPAGV	4.50	114
F44GPAGV	6.00	152
F66GPAGV	8.00	203
F88GPAGV	10.00	254
F1010GPAGV	12.00	305
F1212GPAGV	14.00	356

GALVANIZED CLOSURE PLATE, WITH AND WITHOUT KNOCKOUTS

Closes the end of a wireway section or run.

BULLETIN: F40GF

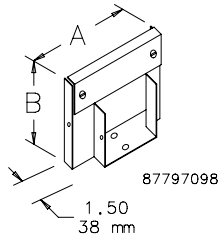


Catalog Number	AxB in./mm	Knockouts
F22GCPGV	2.50 x 2.50 64 x 64	With knockouts
F22GCPNKGV	2.50 x 2.50 64 x 64	Without knockouts
F44GCPGV	4.00 x 4.00 102 x 102	With knockouts
F44GCPNKGV	4.00 x 4.00 102 x 102	Without knockouts
F66GCPGV	6.00 x 6.00 152 x 152	With knockouts
F66GCPNKGV	6.00 x 6.00 152 x 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

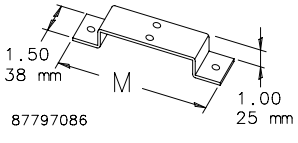


Catalog Number	AxB in./mm
F44G22R	4.00 x 4.00 102 x 102
F66G44R	6.00 x 6.00 152 x 152
F88G66R	8.00 x 8.00 203 x 203
F1010G88R	10.00 x 10.00 254 x 254
F1212G88R	12.00 x 12.00 305 x 305
F1212G1010R	12.00 x 12.00 305 x 305

GALVANIZED SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40GF



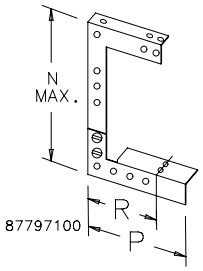
Catalog Number	M (in.)	M (mm)
F22GSHGV	4.62	117
F44GSHGV	6.12	155
F66GSHGV	8.12	206
F88GSHGV	10.12	257
F1010GSHGV	12.12	308
F1212GSHGV	14.12	359

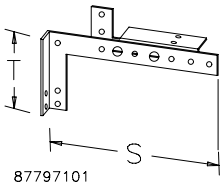
DROP AND BRACKET HANGERS

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

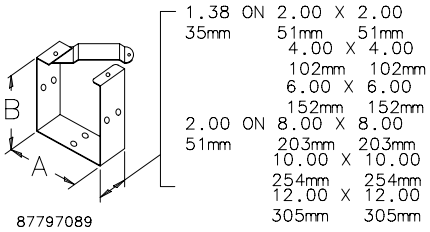




GALVANIZED UNIVERSAL U-CONNECTOR

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

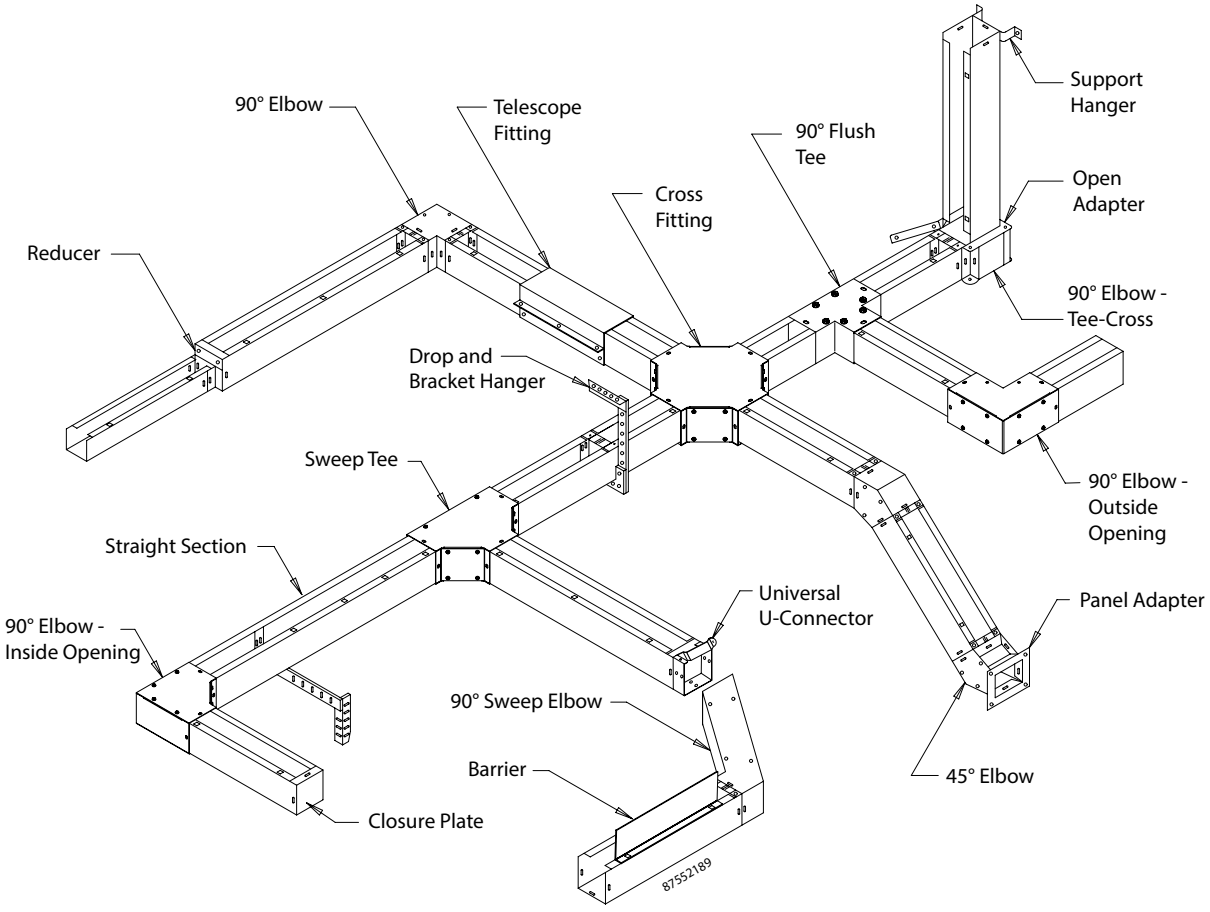
FINISH

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

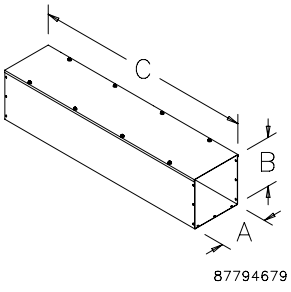


Standard Product **Selection Matrix**

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.

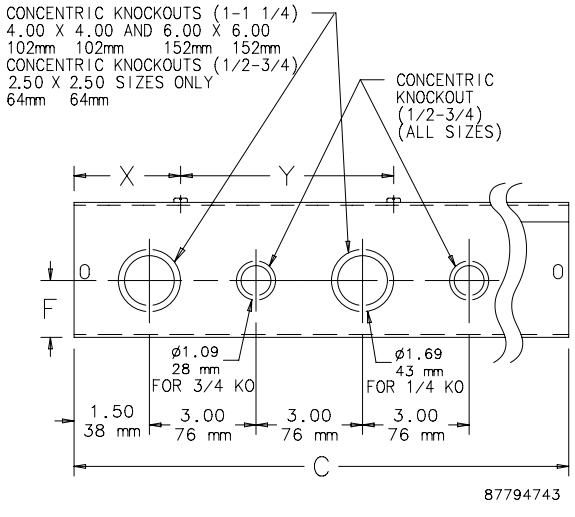
STRAIGHT SECTION



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

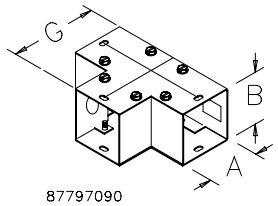
Straight Sections

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



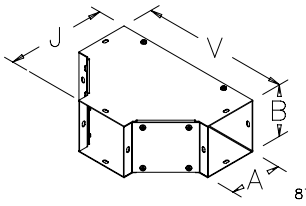
87797090

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



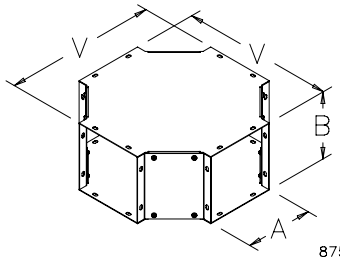
87574005

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



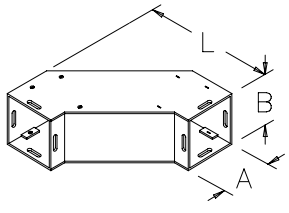
87574006

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



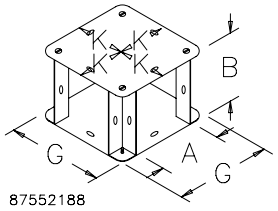
87797091

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



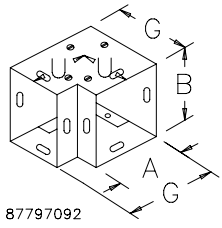
87552188

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



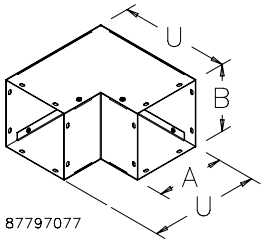
87797092

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



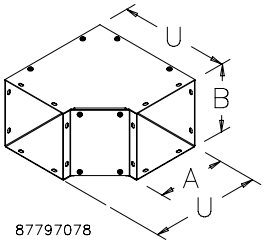
87797077

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



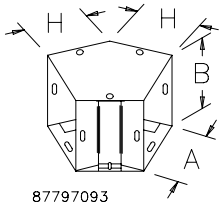
87797078

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

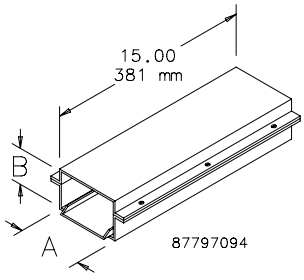


Catalog Number	AxB in./mm	H in./mm
F22G45E	2.50 x 2.50 64 x 64	2.75 70
F33G45E	3.00 x 3.00 76 x 76	2.99 76
F44G45E	4.00 x 4.00 102 x 102	3.38 86
F66G45E	6.00 x 6.00 152 x 152	4.25 108
F88G45E	8.00 x 8.00 203 x 203	5.06 129
F1010G45E	10.00 x 10.00 254 x 254	6.00 152
F1212G45E	12.00 x 12.00 305 x 305	6.75 171

TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40PF



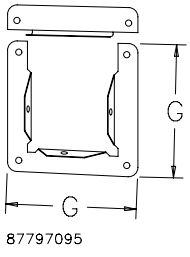
Catalog Number	AxB in./mm
F22GA	2.50 x 2.50 64 x 64
F44GA	4.00 x 4.00 102 x 102
F66GA	6.00 x 6.00 152 x 152
F88GA	8.00 x 8.00 203 x 203
F1010GA	10.00 x 10.00 254 x 254
F1212GA	12.00 x 12.00 305 x 305

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

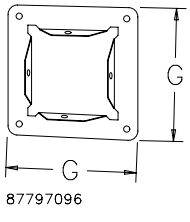


Catalog Number	G (in.)	G (mm)
F22GOA	4.50	114
F44GOA	6.00	152
F66GOA	8.00	203
F88GOA	10.00	254
F1010GOA	12.00	305
F1212GOA	14.00	356

PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40PF

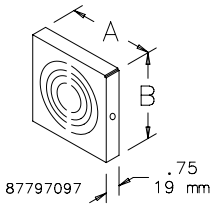


Catalog Number	G (in.)	G (mm)
F22GPA	4.50	114
F33GPA	5.00	127
F44GPA	6.00	152
F66GPA	8.00	203
F88GPA	10.00	254
F1010GPA	12.00	305
F1212GPA	14.00	356

CLOSURE PLATE

Closes the end of a wireway section or run.

BULLETIN: F40PF



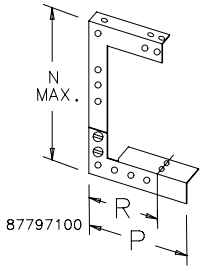
Catalog Number	AxB in.	AxB mm	Knockouts
F22GCP	2.50 x 2.50	64 x 64	With knockouts
F22GCPNK	2.50 x 2.50	64 x 64	Without knockouts
F44GCP	4.00 x 4.00	102 x 102	With knockouts
F33GCPNK	3.00 x 3.00	76 x 76	Without knockouts
F44GCPNK	4.00 x 4.00	102 x 102	Without knockouts
F66GCP	6.00 x 6.00	152 x 152	With 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

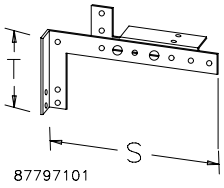
DROP AND BRACKET HANGERS

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

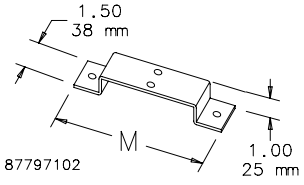




SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40PF

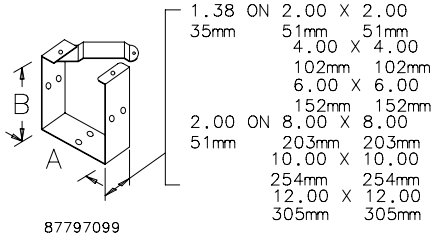


Catalog Number	AxB in./mm	M in./mm
F22GSH	2.50 x 2.50 64 x 64	4.62 117
F44GSH	4.00 x 4.00 102 x 102	6.12 155
F66GSH	6.00 x 6.00 152 x 152	8.12 206
F88GSH	8.00 x 8.00 203 x 203	10.12 257
F1010GSH	10.00 x 10.00 254 x 254	12.12 308
F1212GSH	12.00 x 12.00 305 x 305	14.12 359

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



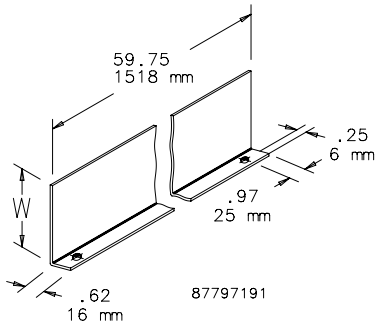
Catalog Number	AxB in./mm
F22GUC	2.50 x 2.50 64 x 64
F33GUC	3.00 x 3.00 76 x 76
F44GUC	4.00 x 4.00 102 x 102
F66GUC	6.00 x 6.00 152 x 152
F88GUC	8.00 x 8.00 203 x 203
F1010GUC	10.00 x 10.00 254 x 254
F1212GUC	12.00 x 12.00 305 x 305

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

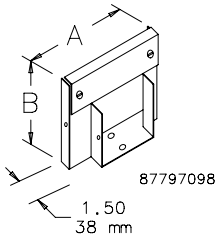
Catalog Number	W in./mm
F33BK60	2.00 51
F44BK60	3.00 76
F66BK60	4.50 114
F88BK60	6.00 152



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

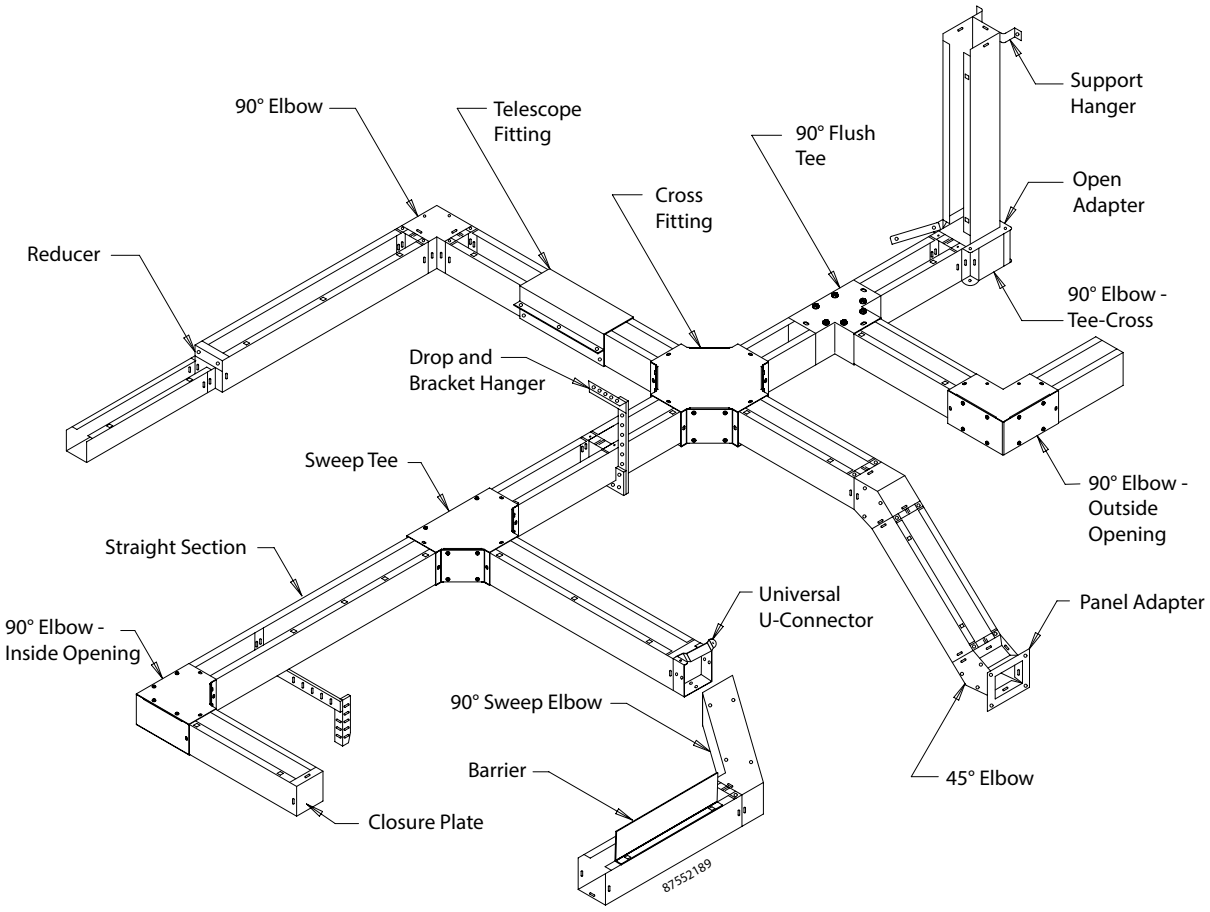
FINISH

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

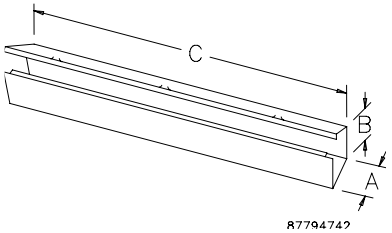


Standard Product **Selection Matrix**

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	—	—	—

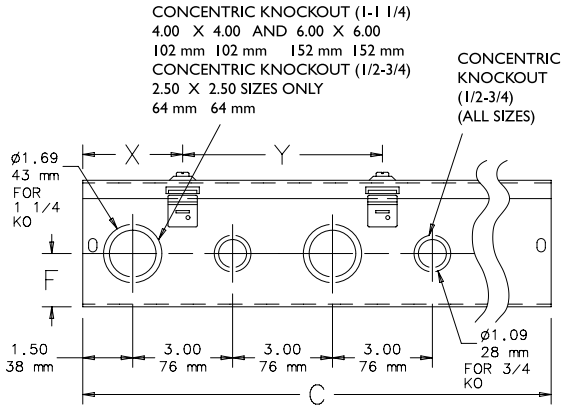
[a]Not UL/cUL listed.

STRAIGHT SECTION



Available in lengths from 12.00 in. (305 mm), with or without knockouts.

BULLETIN: F40, F40PF



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

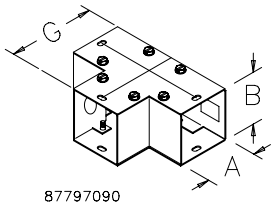
Catalog Number	AxBxC in.	AxBxC mm	Number of Knockouts, .50 in.-.75 in.	Number of Knockouts, 1.00 in.-1.25 in.	F (in.)	F (mm)	X (in.)	X (mm)	Y (in.)	Y (mm)
F22G12WK	2.50 x 2.50 x 12.00	64 x 64 x 305	8	—	1.06	27	3.00	76	6.00	152
F22G12	2.50 x 2.50 x 12.00	64 x 64 x 305	—	—	—	—	—	—	—	—
F22G24WK	2.50 x 2.50 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



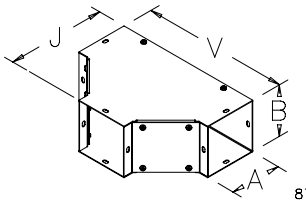
87797090

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



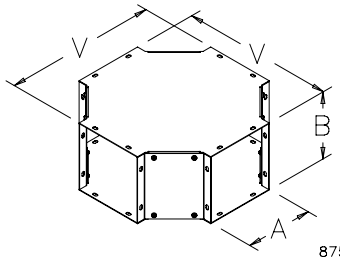
87574005

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



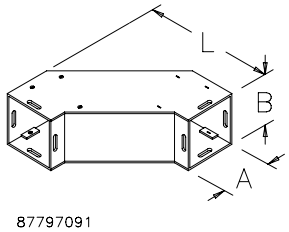
87574006

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



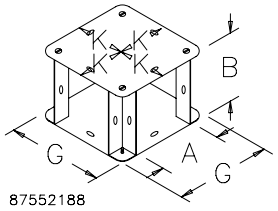
87797091

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

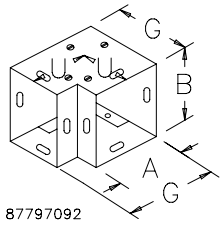


Catalog Number	AxB in./mm	G in./mm	K in./mm
F22G90TX	2.50 x 2.50 64 x 64	4.50 114	2.25 57
F33G90TX	3.00 x 3.00 76 x 76	5.00 127	2.50 64
F44G90TX	4.00 x 4.00 102 x 102	6.00 152	3.00 76
F66G90TX	6.00 x 6.00 152 x 152	8.00 203	4.00 102
F88G90TX	8.00 x 8.00 203 x 203	10.00 254	5.00 127
F1010G90TX	10.00 x 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

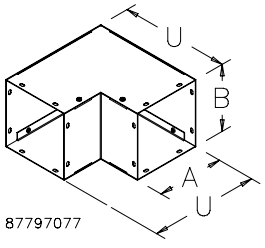


Catalog Number	AxB in./mm	G in./mm
F22G90E	2.50 x 2.50 64 x 64	4.50 114
F33G90E	3.00 x 3.00 76 x 76	5.00 127
F44G90E	4.00 x 4.00 102 x 102	6.00 152
F66G90E	6.00 x 6.00 152 x 152	8.00 203
F88G90E	8.00 x 8.00 203 x 203	10.00 254
F1010G90E	10.00 x 10.00 254 x 254	12.00 305
F1212G90E	12.00 x 12.00 305 x 305	14.00 356

90-DEGREE ELBOW—OUTSIDE OPENING

For continuous run with 90-degree turns. Top, bottom and outside covers removable.

BULLETIN: F40PF

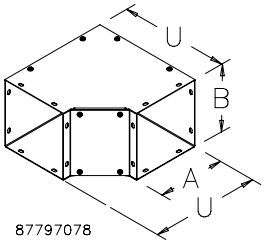


Catalog Number	AxB in./mm	U in./mm
F2290EOUT	2.50 x 2.50 64 x 64	6.50 165
F4490EOUT	4.00 x 4.00 102 x 102	8.00 203
F6690EOUT	6.00 x 6.00 152 x 152	10.00 254
F8890EOUT	8.00 x 8.00 203 x 203	12.00 305
F101090EOUT	10.00 x 10.00 254 x 254	14.00 356
F121290EOUT	12.00 x 12.00 305 x 305	16.00 406

90-DEGREE ELBOW—INSIDE OPENING

For continuous run with 90-degree turns. Top and inside covers removable.

BULLETIN: F40PF

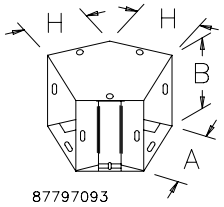


Catalog Number	AxB in./mm	U in./mm
F2290EIN	2.50 x 2.50 64 x 64	6.50 165
F4490EIN	4.00 x 4.00 102 x 102	8.00 203
F6690EIN	6.00 x 6.00 152 x 152	10.00 254
F8890EIN	8.00 x 8.00 203 x 203	12.00 305
F101090EIN	10.00 x 10.00 254 x 254	14.00 356
F121290EIN	12.00 x 12.00 305 x 305	16.00 406

45-DEGREE ELBOW

For continuous run with 45-degree turns. Top and inside covers removable.

BULLETIN: F40PF

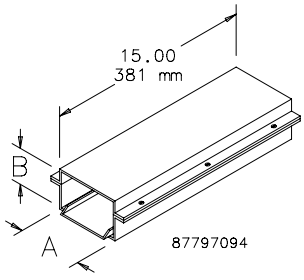


Catalog Number	AxB in./mm	H in./mm
F22G45E	2.50 x 2.50 64 x 64	2.75 70
F33G45E	3.00 x 3.00 76 x 76	2.99 76
F44G45E	4.00 x 4.00 102 x 102	3.38 86
F66G45E	6.00 x 6.00 152 x 152	4.25 108
F88G45E	8.00 x 8.00 203 x 203	5.06 129
F1010G45E	10.00 x 10.00 254 x 254	6.00 152
F1212G45E	12.00 x 12.00 305 x 305	6.75 171

TELESCOPE FITTING

Length easily adjusts to approximately 12.00 in. (305 mm). No cutting or welding required.

BULLETIN: F40PF



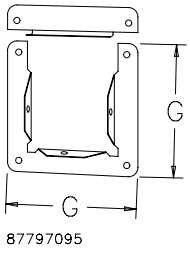
Catalog Number	AxB in./mm
F22GA	2.50 x 2.50 64 x 64
F44GA	4.00 x 4.00 102 x 102
F66GA	6.00 x 6.00 152 x 152
F88GA	8.00 x 8.00 203 x 203
F1010GA	10.00 x 10.00 254 x 254
F1212GA	12.00 x 12.00 305 x 305

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

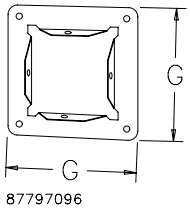


Catalog Number	G (in.)	G (mm)
F22GOA	4.50	114
F44GOA	6.00	152
F66GOA	8.00	203
F88GOA	10.00	254
F1010GOA	12.00	305
F1212GOA	14.00	356

PANEL ADAPTER

A flanged fitting which allows the wireway to be securely connected to an enclosure.

BULLETIN: F40PF

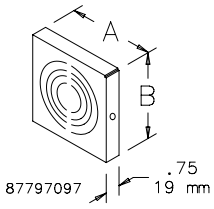


Catalog Number	G (in.)	G (mm)
F22GPA	4.50	114
F33GPA	5.00	127
F44GPA	6.00	152
F66GPA	8.00	203
F88GPA	10.00	254
F1010GPA	12.00	305
F1212GPA	14.00	356

CLOSURE PLATE

Closes the end of a wireway section or run.

BULLETIN: F40PF

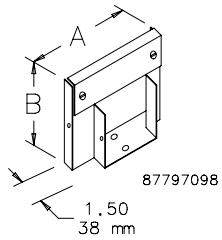


Catalog Number	AxB in.	AxB mm	Knockouts
F22GCP	2.50 x 2.50	64 x 64	With knockouts
F22GCPNK	2.50 x 2.50	64 x 64	Without knockouts
F44GCP	4.00 x 4.00	102 x 102	With knockouts
F33GCPNK	3.00 x 3.00	76 x 76	Without knockouts
F44GCPNK	4.00 x 4.00	102 x 102	Without knockouts
F66GCP	6.00 x 6.00	152 x 152	With 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



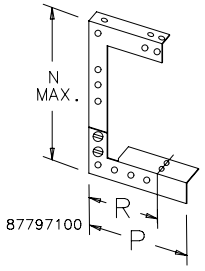
Catalog Number	AxB in./mm
F33G22R	3.00 x 3.00 76 x 76
F44G22R	4.00 x 4.00 102 x 102
F44G33R	4.00 x 4.00 101 x 101
F66G44R	6.00 x 6.00 152 x 152
F88G66R	8.00 x 8.00 203 x 203
F1010G88R	10.00 x 10.00 254 x 254
F1212G88R	12.00 x 12.00 305 x 305
F1212G1010R	12.00 x 12.00 305 x 305

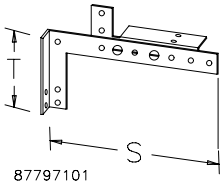
DROP AND BRACKET HANGERS

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

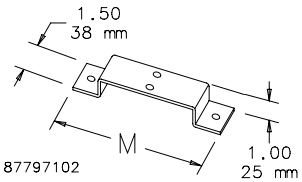




SUPPORT HANGER

For floor or wall installations.

BULLETIN: F40PF

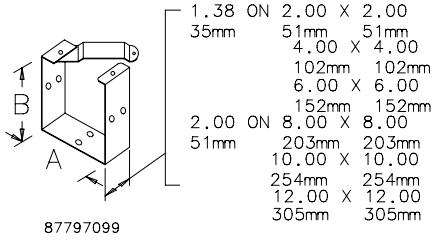


Catalog Number	AxB in./mm	M in./mm
F22GSH	2.50 x 2.50 64 x 64	4.62 117
F44GSH	4.00 x 4.00 102 x 102	6.12 155
F66GSH	6.00 x 6.00 152 x 152	8.12 206
F88GSH	8.00 x 8.00 203 x 203	10.12 257
F1010GSH	10.00 x 10.00 254 x 254	12.12 308
F1212GSH	12.00 x 12.00 305 x 305	14.12 359

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



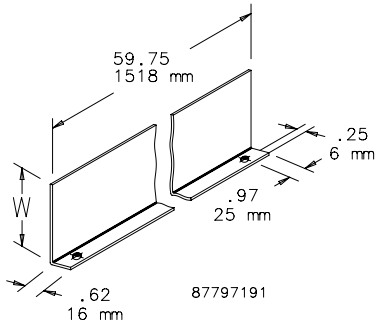
Catalog Number	AxB in./mm
F22GUC	2.50 x 2.50 64 x 64
F33GUC	3.00 x 3.00 76 x 76
F44GUC	4.00 x 4.00 102 x 102
F66GUC	6.00 x 6.00 152 x 152
F88GUC	8.00 x 8.00 203 x 203
F1010GUC	10.00 x 10.00 254 x 254
F1212GUC	12.00 x 12.00 305 x 305

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

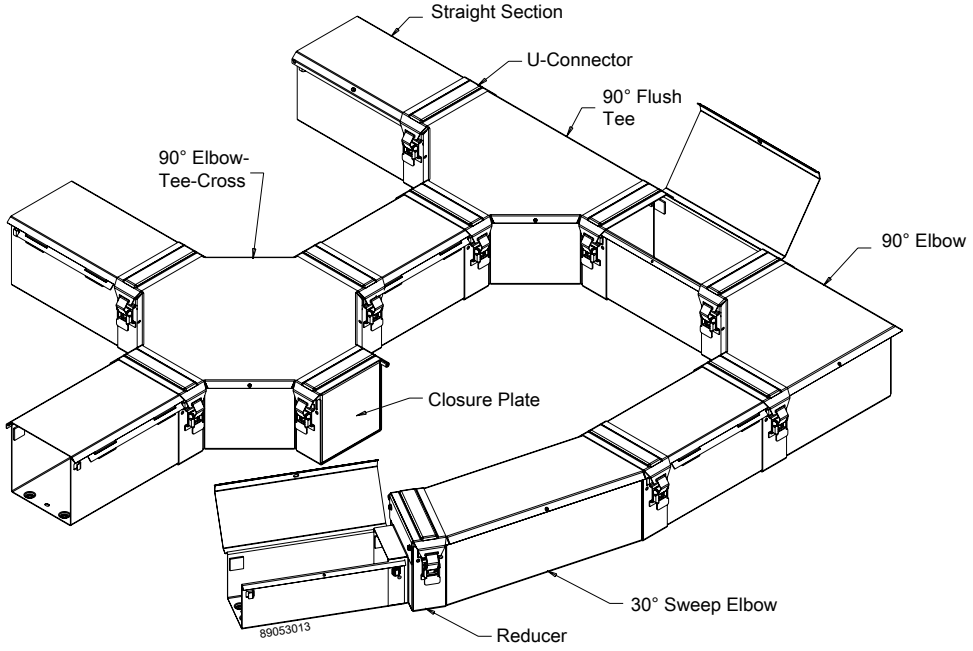
- Open top assembly
- Self-connecting system
- Removable covers with quick-release latches

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**

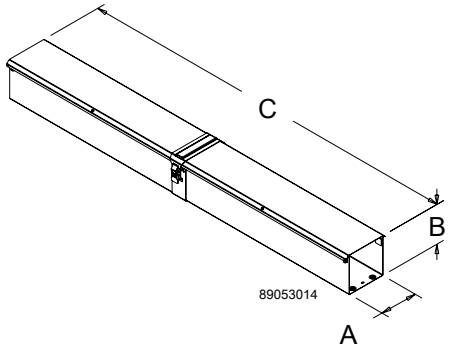
Description	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)	8.00 x 8.00 in. (203 x 203 mm)
12.00-in. (305-mm) Straight Section[a]	F44T3R12	F66T3R12	F88T3R12
60.00-in. (1524-mm) Straight Section[a]	F44T3R60	F66T3R60	F88T3R60
120.00-in. (3048-mm) Straight Section[a]	F44T3R120	F66T3R120	F88T3R120
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

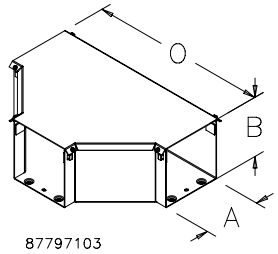


90-DEGREE FLUSH TEE

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	16.00
	102 x 102	406
F66T3RT	6.00 x 6.00	18.00
	152 x 152	457
F88T3RT	8.00 x 8.00	20.00
	203 x 203	508

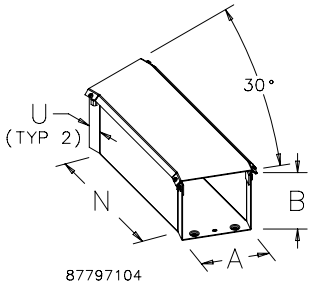


30-DEGREE SWEEP ELBOW

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	13.00	1.25
	102 x 102	330	31
F66T3R30SE	6.00 x 6.00	13.00	1.25
	152 x 152	330	31
F88T3R30SE	8.00 x 8.00	13.00	1.25
	203 x 203	330	31

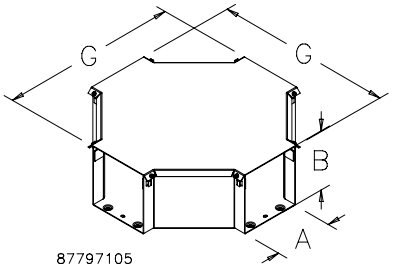


90-DEGREE CROSS

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	16.00
	102 x 102	406
F66T3RTX	6.00 x 6.00	18.00
	152 x 152	457
F88T3RTX	8.00 x 8.00	20.00
	203 x 203	508

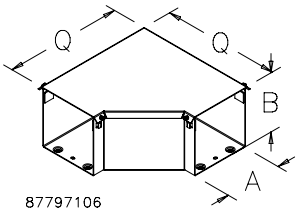


90-DEGREE ELBOW

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

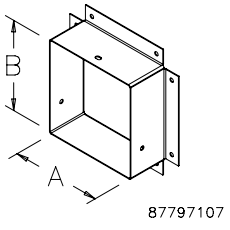


PANEL ADAPTER

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

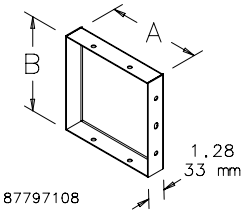


CLOSURE PLATE

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

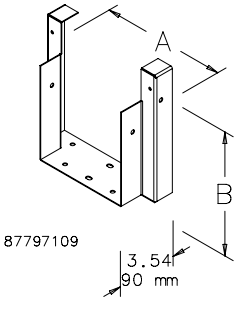


REDUCER

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

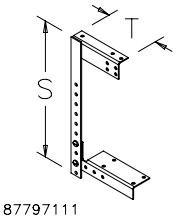


DROP AND BRACKET HANGER

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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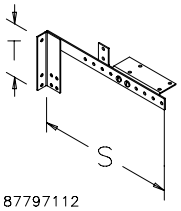

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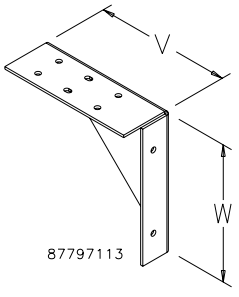
WALL HANGER

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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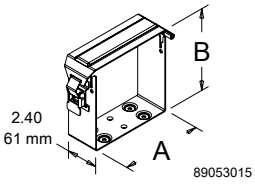
U-CONNECTOR

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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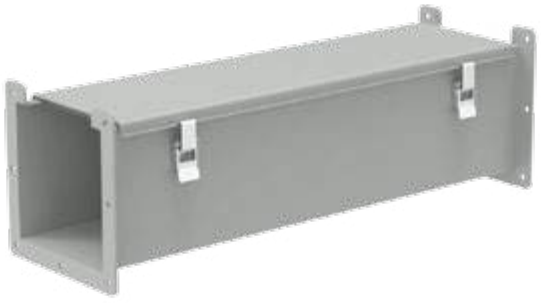
LAY-IN WIREWAY, NEMA TYPE 12



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

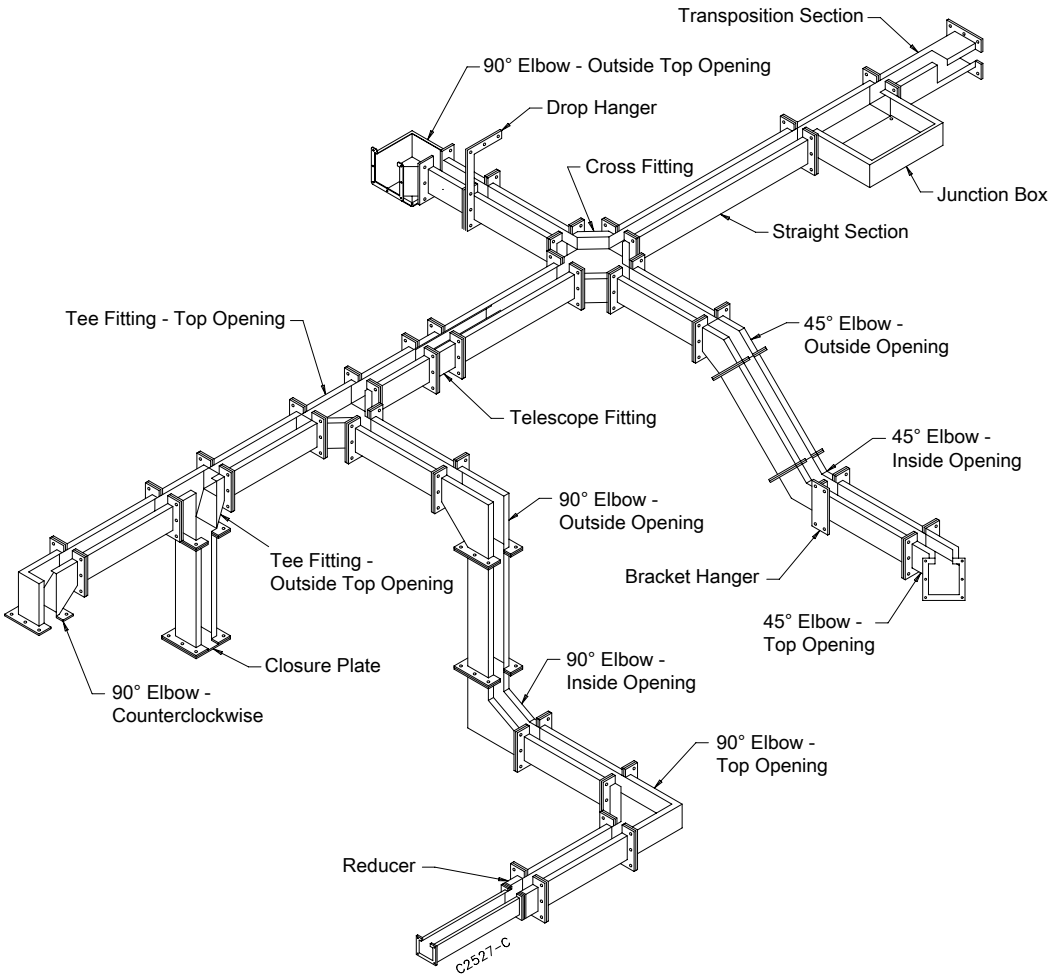
NEMA/EEMAC Type 12
JIC standards EGP-1-1967 and EMP-1-1967
CSA, File No. 42184, Type 1
IEC 60529, IP54

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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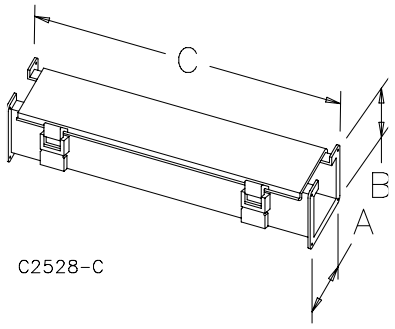
STRAIGHT SECTION

Available in lengths from 6.00 in. (152 mm) to 120.00 in. (3048 mm).

BULLETIN: F10

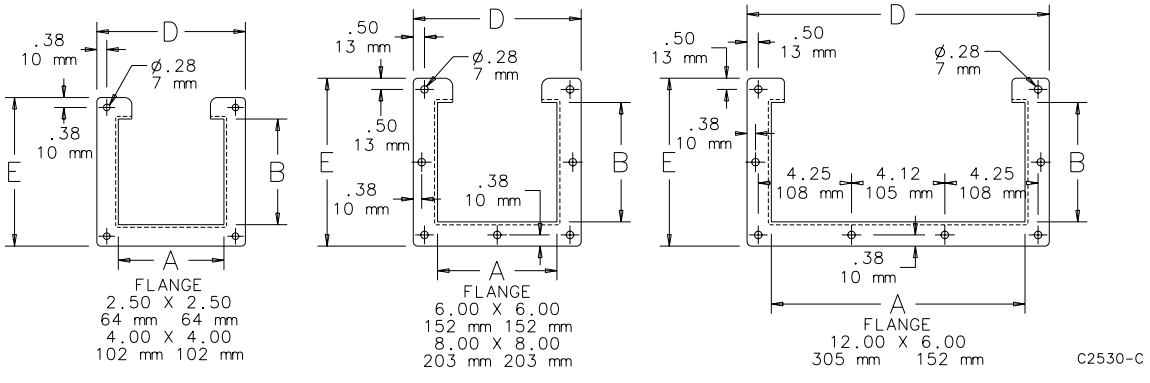


Straight Sections

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.



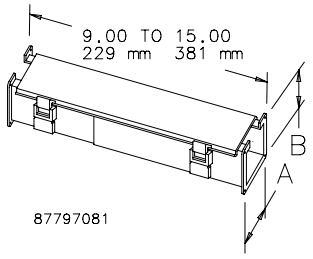
CUT-OFF FITTING, LAY-IN

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.



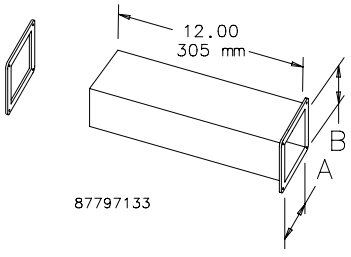
CUT-OFF FITTING, NON-LAY-IN

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.



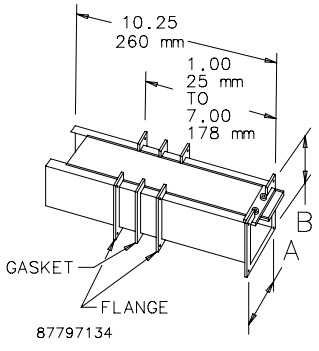
TELESCOPE FITTING, LAY-IN

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

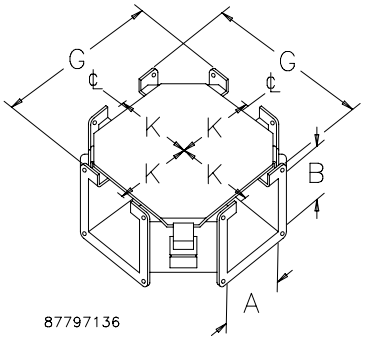
Used when there are four branches, all open along the same side.

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.

Certified by Canadian Standards Association



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.

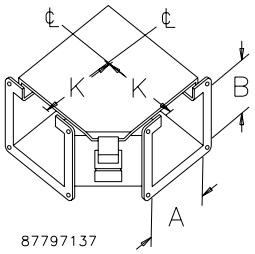
BULLETIN: F10

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.

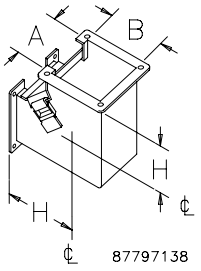


Inside Opening

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.

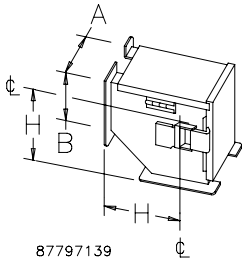


Outside Opening

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.

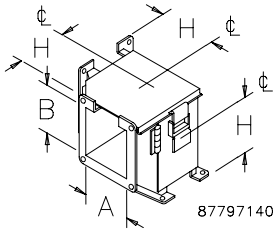
Certified by Canadian Standards Association.



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.

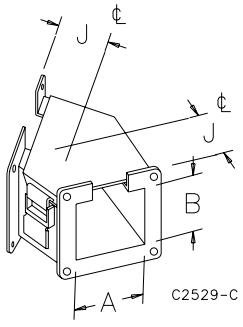
BULLETIN: F10

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.

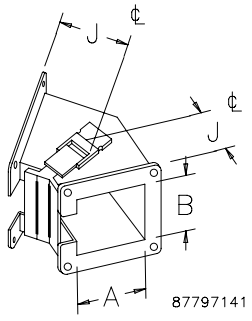


Inside Opening

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.

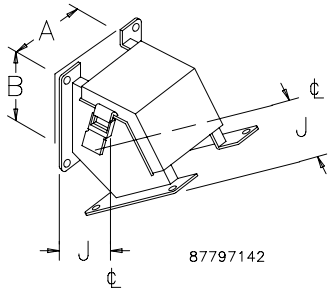


Outside Opening

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.



TEE FITTING—TOP OPENING

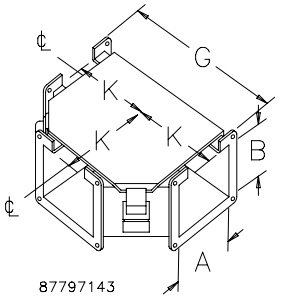
This fitting is used when the covers of all three branches of the wireway run are open along the same side.

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

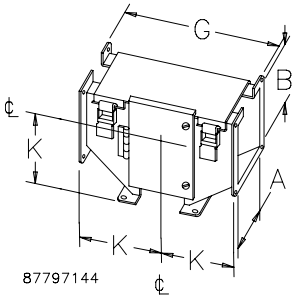
This fitting is used when the covers of two branches are on the same side and the third is on a different side.

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

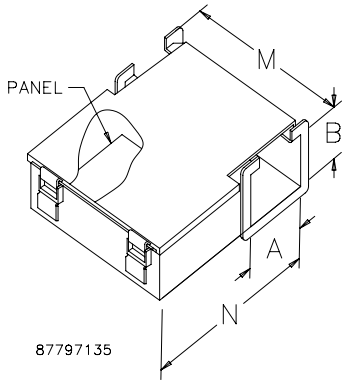
The junction box has a removable panel on which terminal blocks and other components may be mounted.

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.



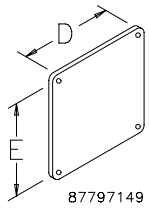
CLOSURE PLATE

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.



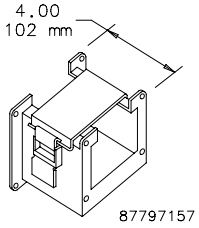
REDUCER

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

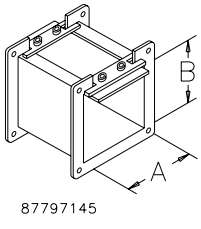
Available in lengths of 1.00 in. (25 mm), 2.00 in. (51 mm) and 3.00 in. (76 mm).

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.



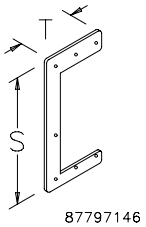
DROP HANGER

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.

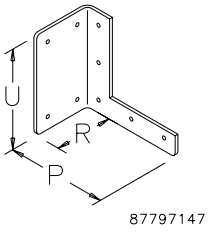


BRACKET HANGER

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



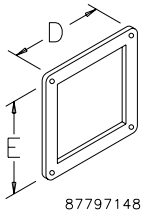
BOX CONNECTOR

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.

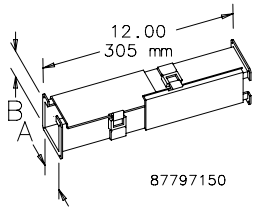
BULLETIN: F10

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.

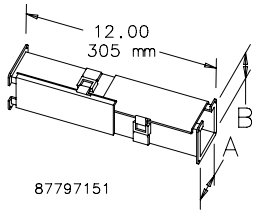


Counterclockwise

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.

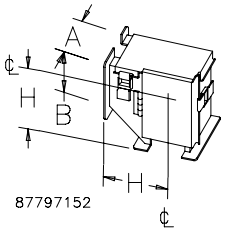


90-Degree Elbow - Clockwise

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.

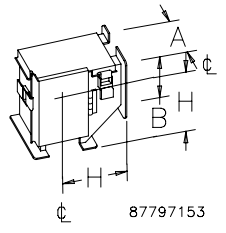


90-Degree Elbow - Counterclockwise

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.

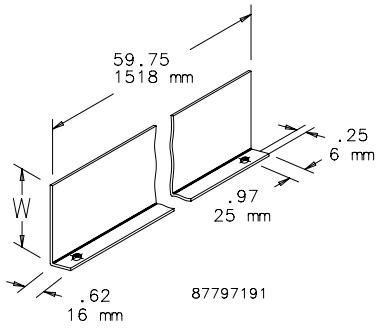


BARRIER KIT, BOLT-ON

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

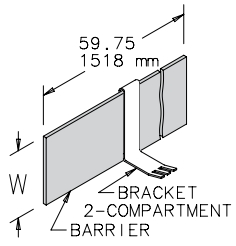
Spring steel brackets hold barriers in place by friction fit inside wireway. Order barrier and bracket separately. Recommended spacing in increments of 3 ft. (.9 m).

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.



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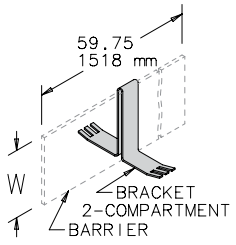
Two-Compartment Brackets

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.

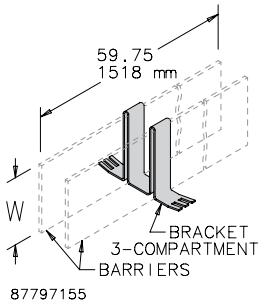


87797154

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

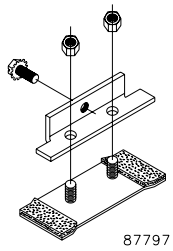
90-DEGREE ANGLE SEALING PLATE

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

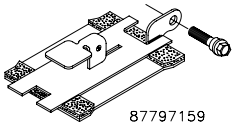
Each sealing plate also includes one gasket and one set of screws to join sections.


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

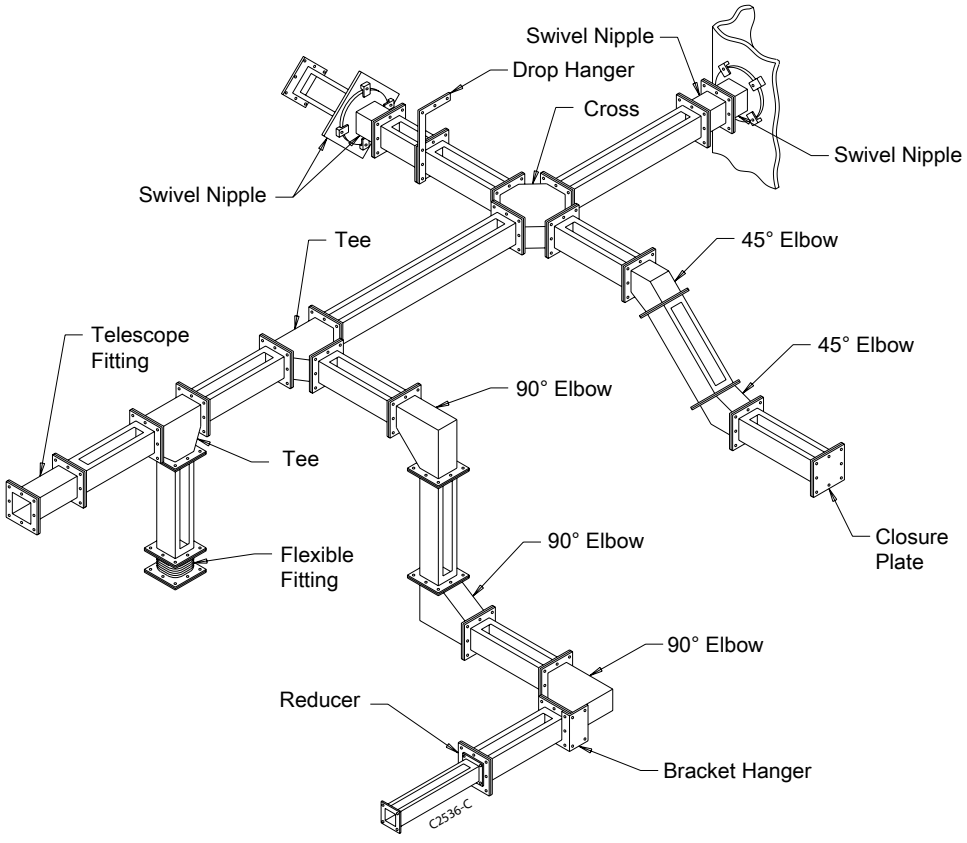
FINISH

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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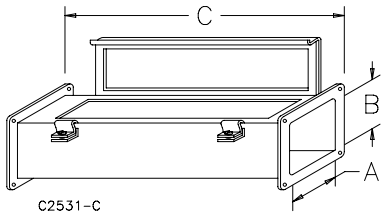
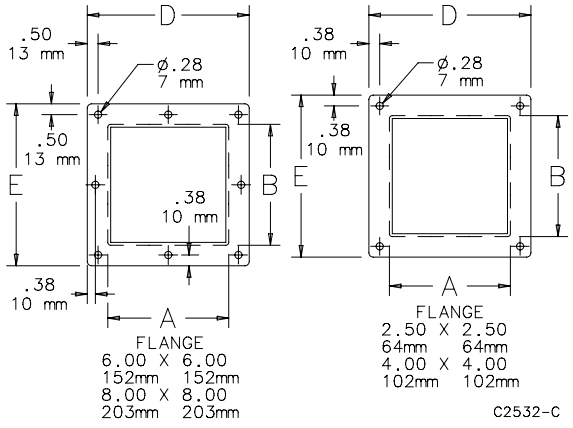
STRAIGHT SECTION



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.

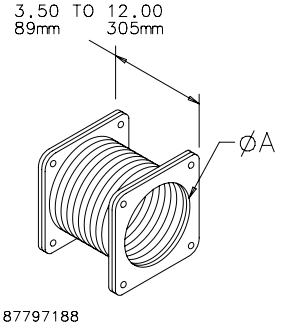
Certified by Canadian Standards Association.

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



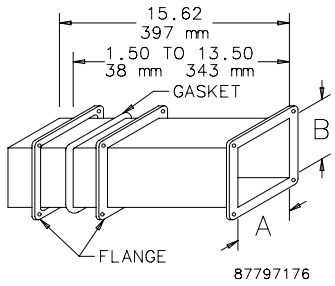
TELESCOPE FITTING

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.



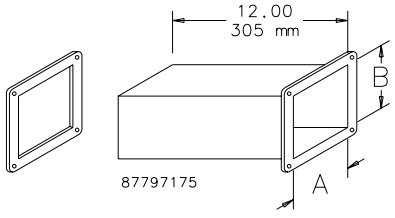
CUT-OFF FITTING

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.



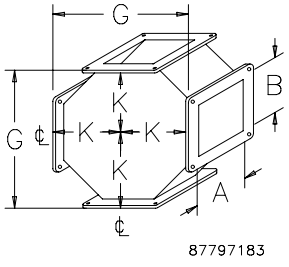
CROSS

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.



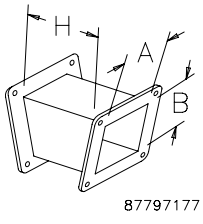
22.50-DEGREE ELBOW

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.



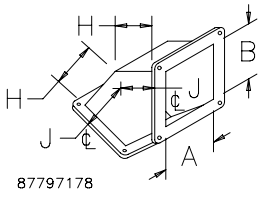
45-DEGREE ELBOW

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

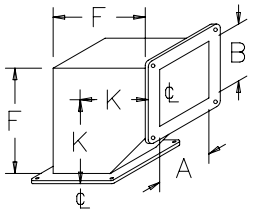
90-DEGREE ELBOW

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

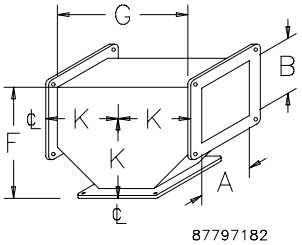
TEE

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

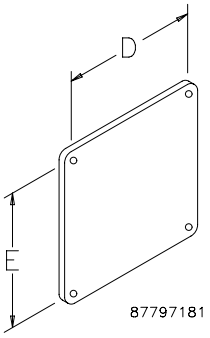
Used to seal the end on a wireway section or run.

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.

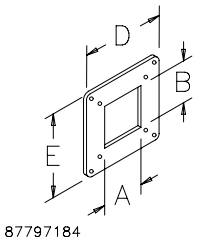
BULLETIN: F20

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.

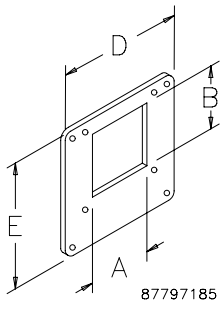


Edge Hole

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.

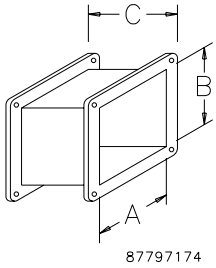


NIPPLE

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.

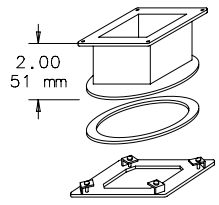
BULLETIN: F20

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.



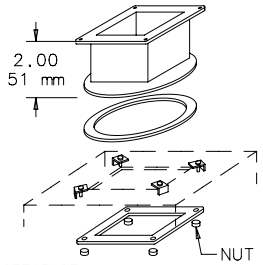
87797186

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

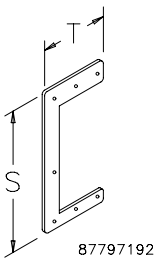
HANGERS

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

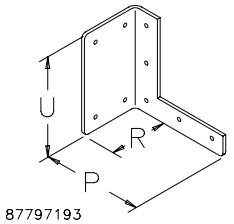


87797192

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

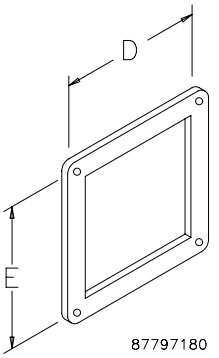
BOX CONNECTOR

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)

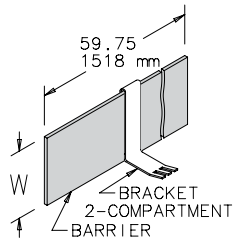
BULLETIN: F10, F20

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

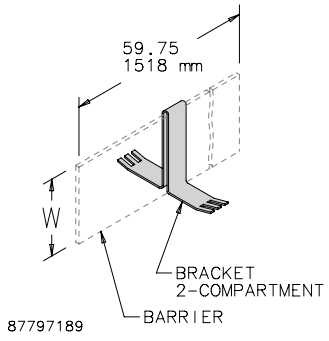


Two-Compartment Brackets

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.

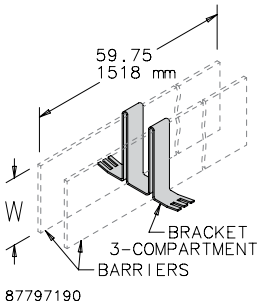


Three-Compartment Brackets

Catalog Number	W (in.)	W (mm)
F44BB3C	3.00	76
F66BB3C	4.50	114

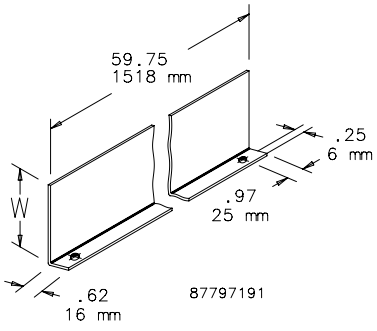
All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.

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

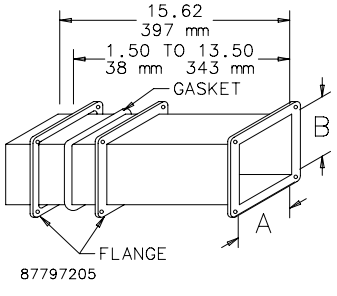
TELESCOPE FITTING

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.



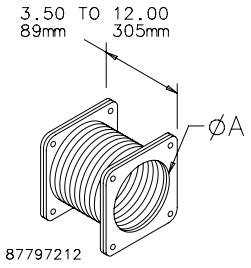
FLEXIBLE FITTING

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

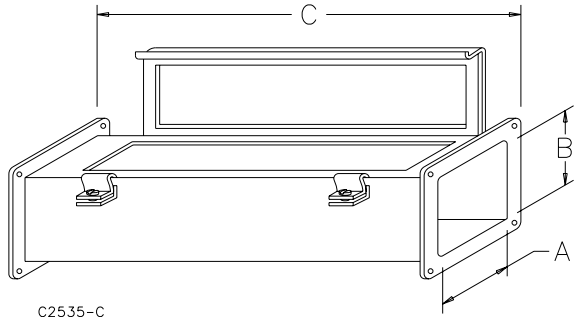
Available in lengths from 12.00 in. (305 mm) to 120.00 in. (3048 mm).

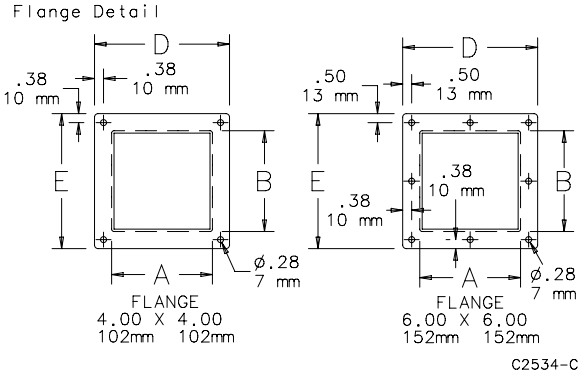
BULLETIN: F22

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.





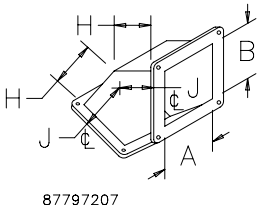
45-DEGREE ELBOW

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.



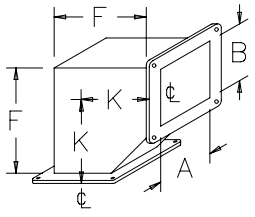
90-DEGREE ELBOW

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

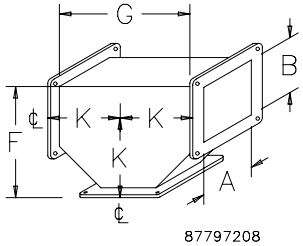
TEE

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

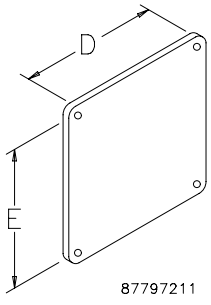
Used to seal the end of a wireway section or run.

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

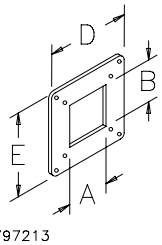
Used to reduce to a smaller wireway size. The center hole bushing centers the two wireway sizes relative to each other while the edge hole bushing keeps the top surfaces even.

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

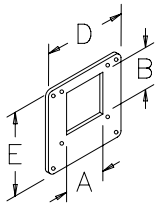
All dimensions are to outside surfaces. Allow .12 in. (3 mm) additional for gasket at joints.



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

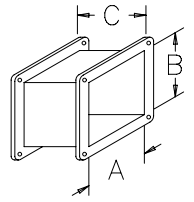
Available in 6.00-in. (152-mm) length.

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

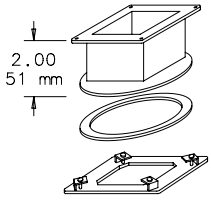
Allows wireway run to be adjusted to any angle. Regular type is used between adjacent wireway sections or fittings.

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.



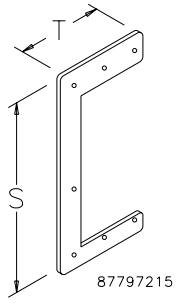
87797209

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.



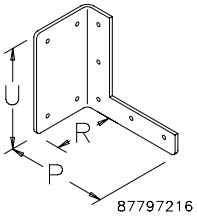
87797215

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

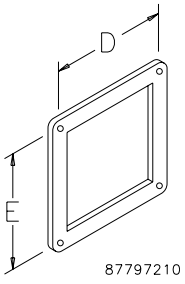
BOX CONNECTOR

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.



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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**

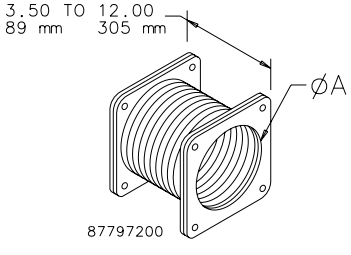
Description	4.00 x 4.00 in. (102 x 102 mm)	6.00 x 6.00 in. (152 x 152 mm)
12.00-in. (305-mm) Straight Section	F44W12FG	F66W12FG
24.00-in. (610-mm) Straight Section	F44W24FG	F66W24FG
36.00-in. (914-mm) Straight Section	F44W36FG	F66W36FG
48.00-in. (1219-mm) Straight Section	F44W48FG	F66W48FG
60.00-in. (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

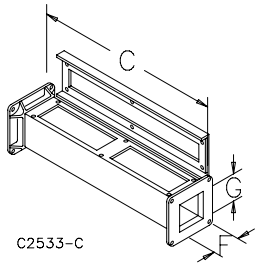


STRAIGHT SECTION

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



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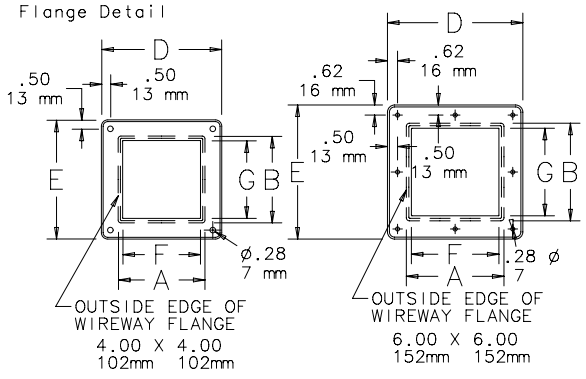
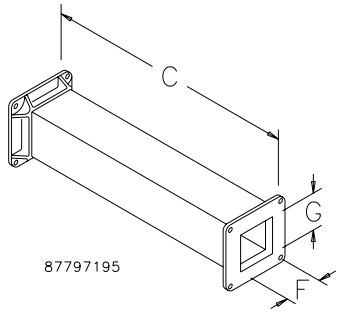


C2474-C

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

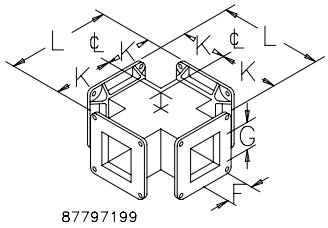


87797195

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

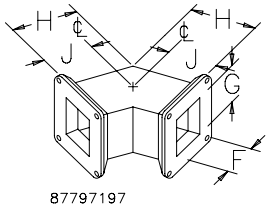


87797199

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

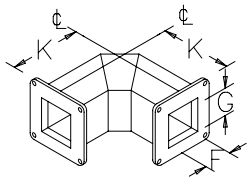


87797197

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



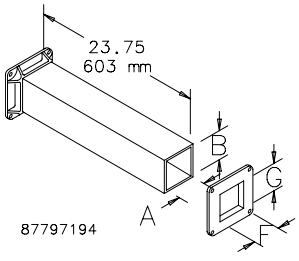
87797196

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



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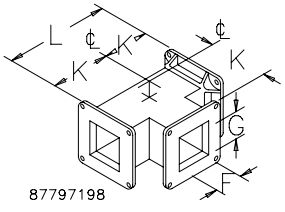
TEE FITTING

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



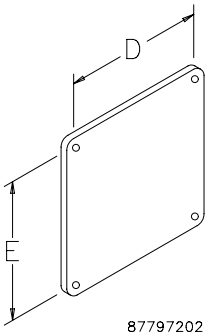
87797198

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



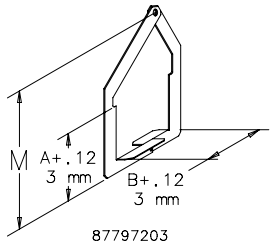
87797202

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

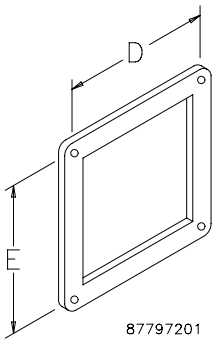


BOX CONNECTOR

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

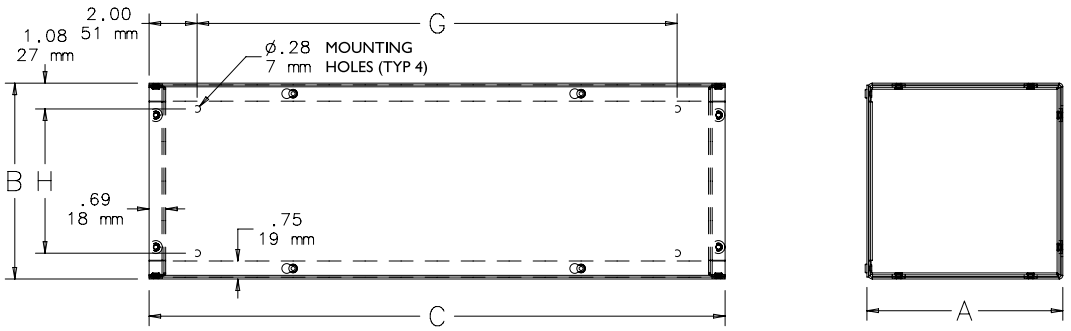
SPECIFICATIONS

- 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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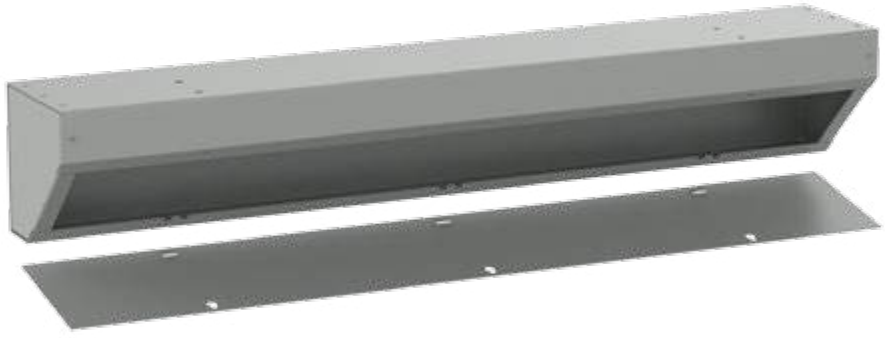
ANGLED TROUGH, NEMA TYPE 1



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

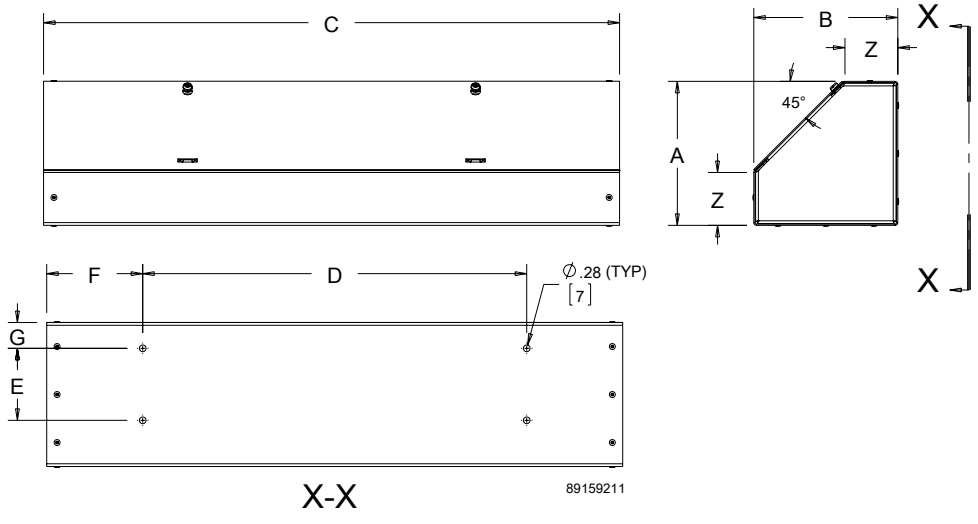
SPECIFICATIONS

- 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

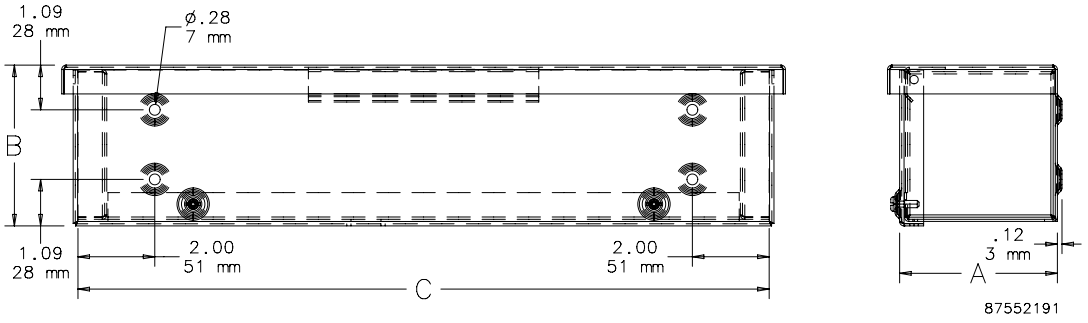
SPECIFICATIONS

- 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

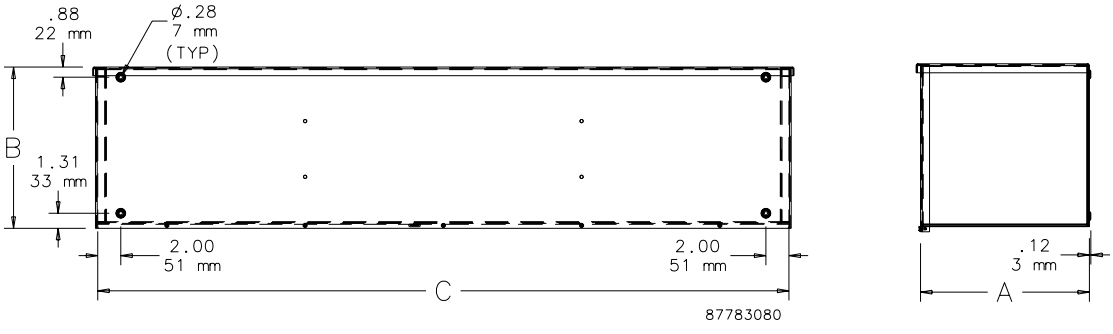
FINISH

Unpainted galvanized steel

ACCESSORIES

Padlock Hasp Kit, page 67

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

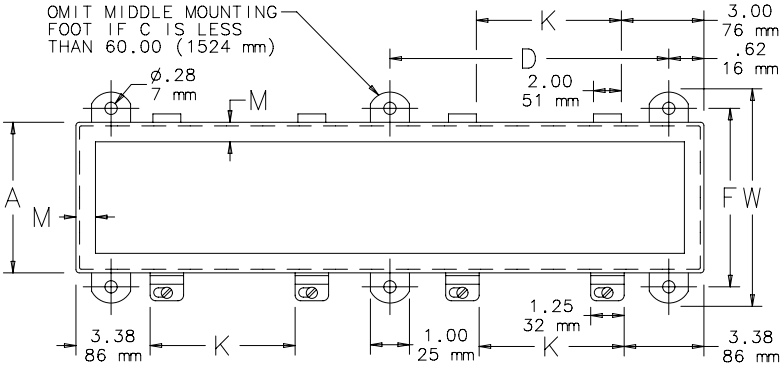
ANSI 61 gray polyester powder coating inside and out over pretreated surfaces.

BULLETIN: F20HC

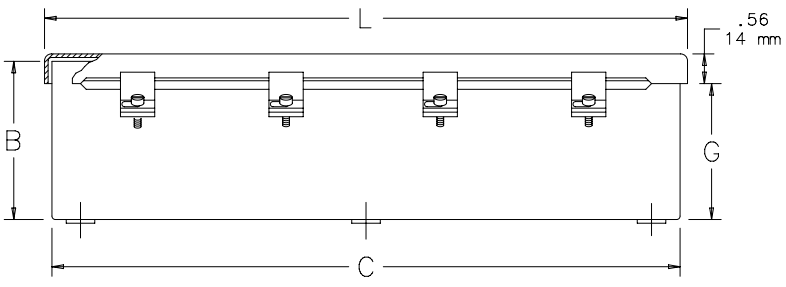
INDUSTRY STANDARDS

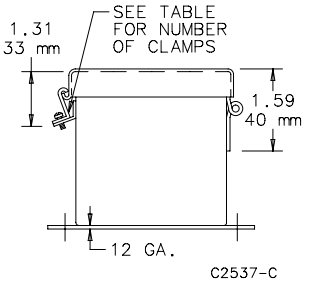
UL 870 Listed; File No. E27524

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.

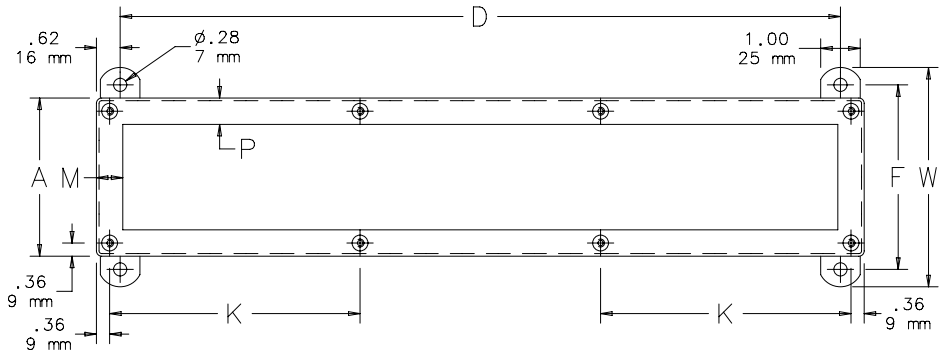
MODIFICATION AND CUSTOMIZATION

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

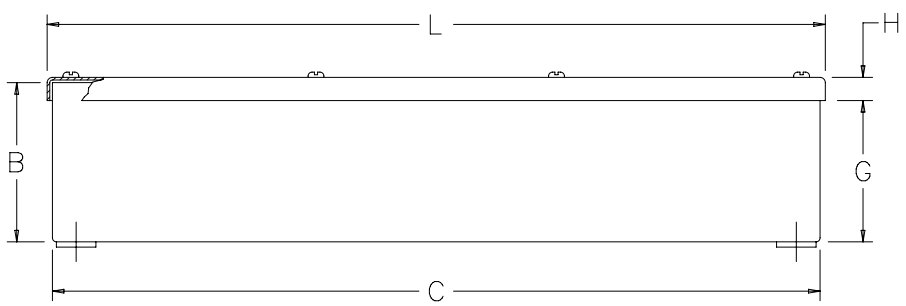
BULLETIN: F20SC

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



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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

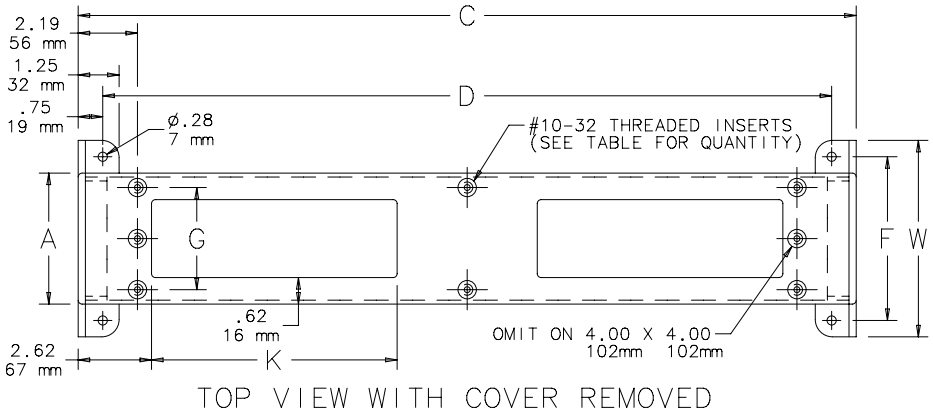
FINISH

Fiberglass wireway is gray inside and out.

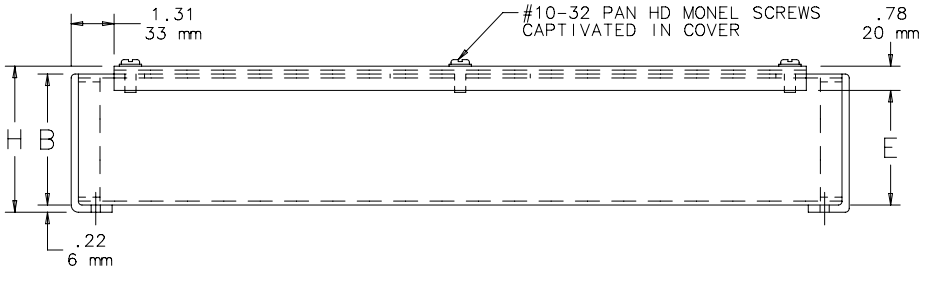
BULLETIN: F25

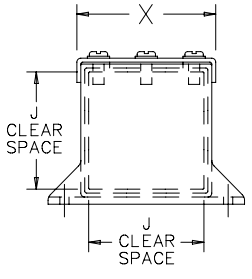
Standard Product

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



TOP VIEW WITH COVER REMOVED





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

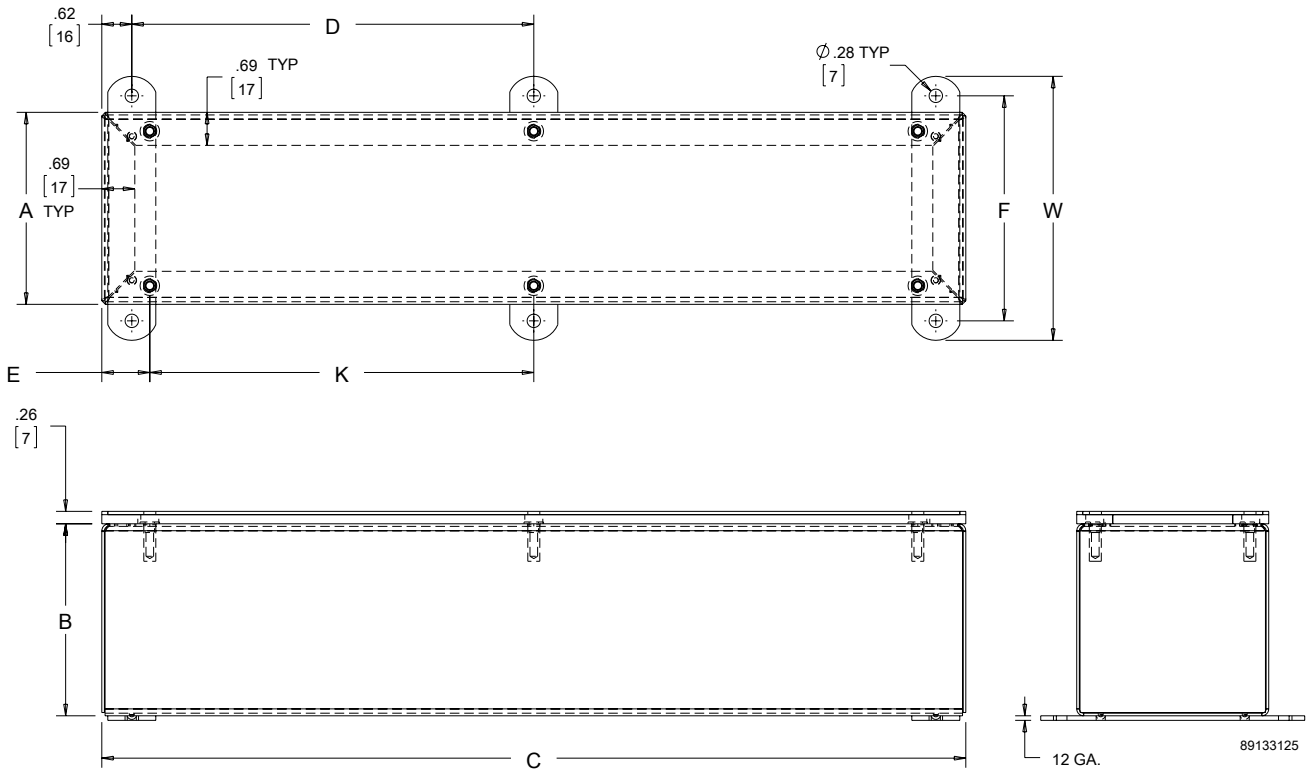
Handle Kit, page 75

BULLETIN: F24

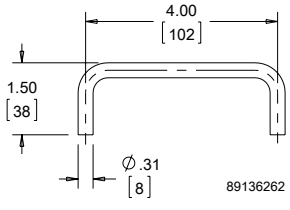
Standard Product

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

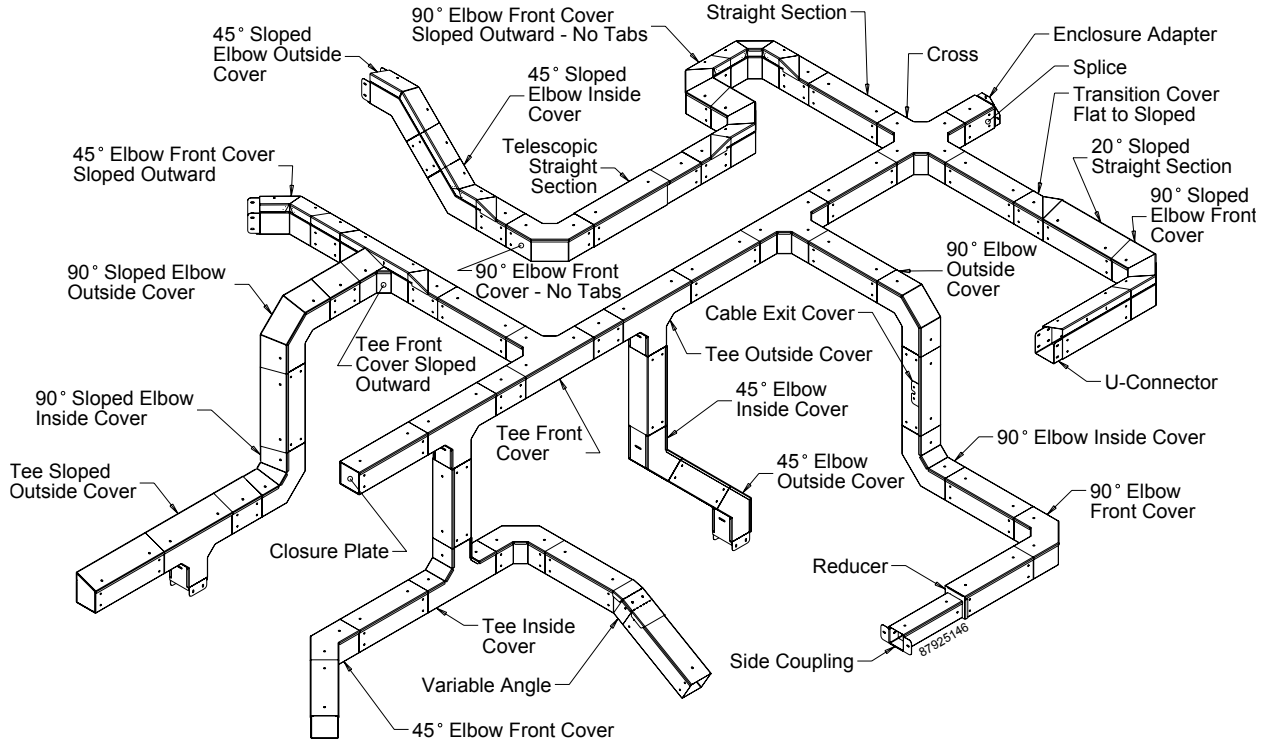
- Adjustable dividers
- Tops and sides can completely open
- Flat cover and 20-degree sloped cover models available
- Perforated fittings and straight sections
- Elbows contain three cover options: front, inside and outside
- Connecting hardware is included with each model
- Quarter-turn latches

SPECIFICATIONS

- 18 gauge stainless steel

FINISH

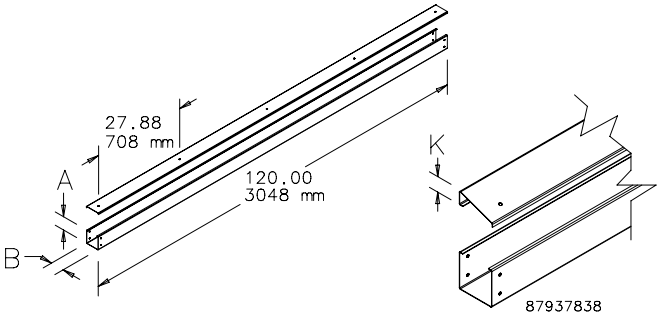
Smooth brushed finish



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



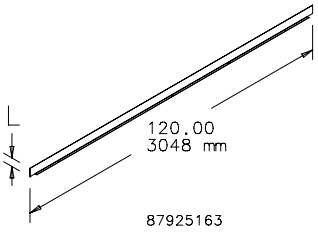
Catalog Number	AxBxC in./mm	Description	K in./mm
CT22120SS	2.00 x 2.00 x 120.00 51 x 51 x 3048	Standard	— —
CT33120SS	3.00 x 3.00 x 120.00 76 x 76 x 3048	Standard	— —
CT44120SS	4.00 x 4.00 x 120.00 102 x 102 x 3048	Standard	— —
CT46120SS	4.00 x 6.00 x 120.00 102 x 152 x 3048	Standard	— —
CT66120SS	6.00 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

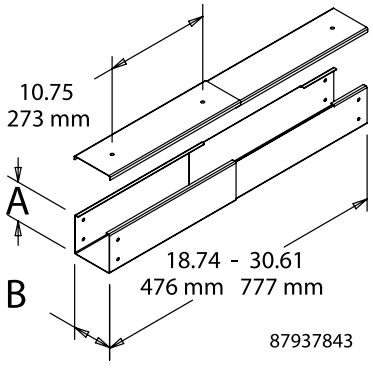


TELESCOPIC STRAIGHT SECTION

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.

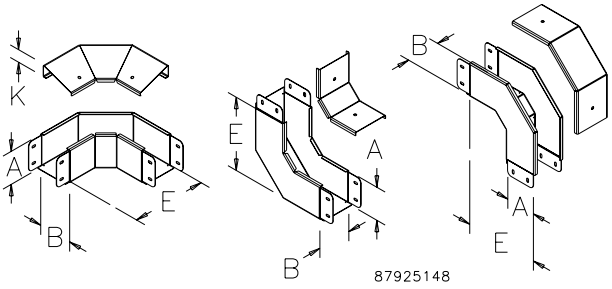
BULLETIN: F23

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



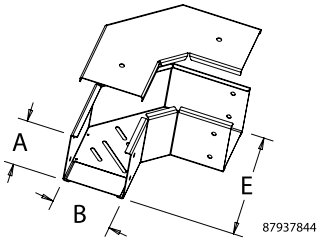
Catalog Number	AxB in.	AxB mm	Description	E (in.)	E (mm)	K (in.)	K (mm)
CT22EFC90SS	2.00 x 2.00	51 x 51	Front Cover	6.00	152	—	—
CT33EFC90SS	3.00 x 3.00	76 x 76	Front Cover	7.00	178	—	—
CT44EFC90SS	4.00 x 4.00	102 x 102	Front Cover	9.00	229	—	—
CT46EFC90SS	4.00 x 6.00	102 x 152	Front Cover	11.00	279	—	—
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

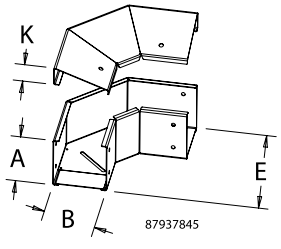


90-DEGREE ELBOWS—FRONT COVER SLOPED INWARD WITHOUT TABS

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

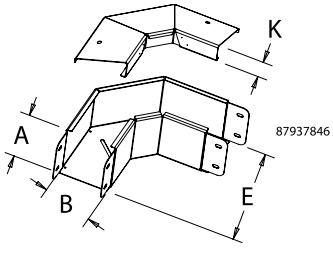


90-DEGREE ELBOWS—FRONT COVER SLOPED OUTWARD WITH TABS

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

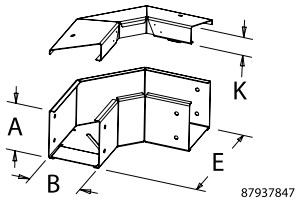


90-DEGREE ELBOWS—FRONT COVER SLOPED OUTWARD WITHOUT TABS

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

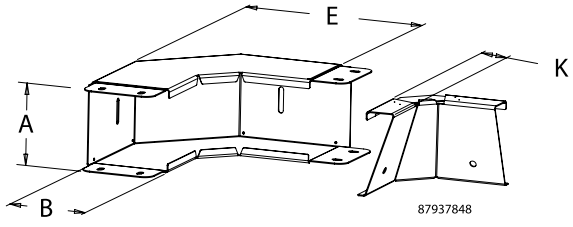


90-DEGREE ELBOWS—INSIDE COVER SLOPED

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



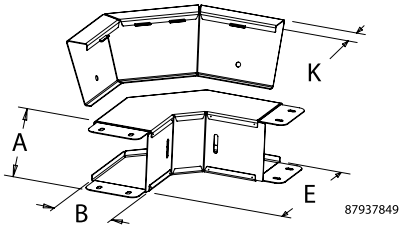
90-DEGREE ELBOWS—OUTSIDE COVER SLOPED

Used wherever a 90-degree transition is required.

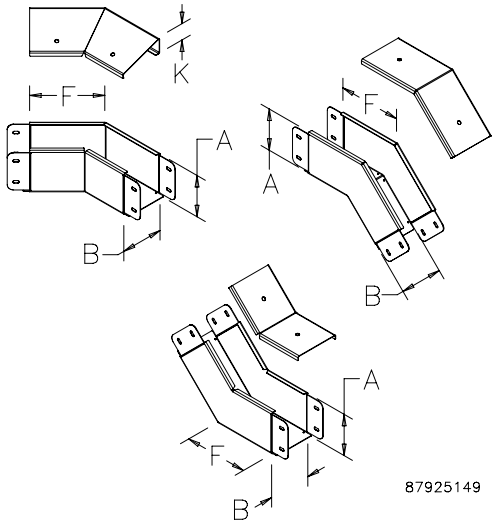
BULLETIN: F23

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

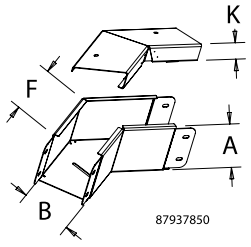
Catalog Number	AxB in.	AxB mm	Description	F (in.)	F (mm)	K (in.)	K (mm)
CT22EFC45SS	2.00 x 2.00	51 x 51	Front Cover	4.57	116	—	—
CT33EFC45SS	3.00 x 3.00	76 x 76	Front Cover	4.98	127	—	—
CT44EFC45SS	4.00 x 4.00	102 x 102	Front Cover	5.96	151	—	—
CT46EFC45SS	4.00 x 6.00	102 x 152	Front Cover	6.79	173	—	—
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



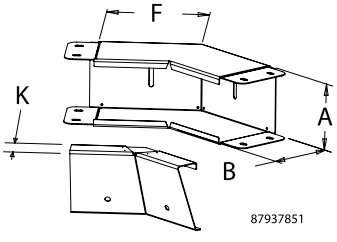
45-DEGREE ELBOWS—INSIDE COVER SLOPED

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

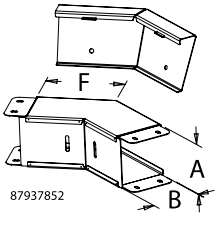


45-DEGREE ELBOWS—OUTSIDE COVER SLOPED

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

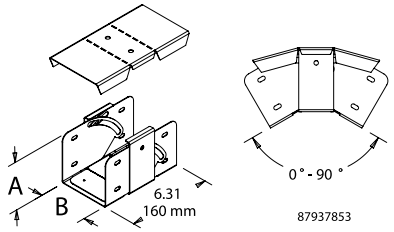


VARIABLE-ANGLE ELBOW FITTING

Adjustable from 0 to 90 degrees. Simplifies and saves field integration and installation time.

BULLETIN: F23

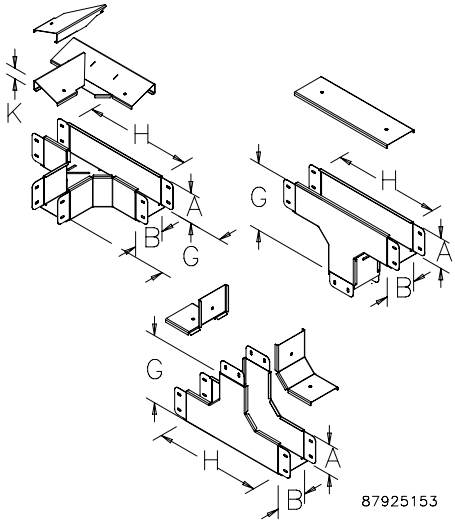
Catalog Number	AxB in.	AxB mm
CT22VSS	2.00 x 2.00	51 x 51
CT33VSS	3.00 x 3.00	76 x 76
CT44VSS	4.00 x 4.00	102 x 102
CT46VSS	4.00 x 6.00	102 x 152
CT66VSS	6.00 x 6.00	152 x 152



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



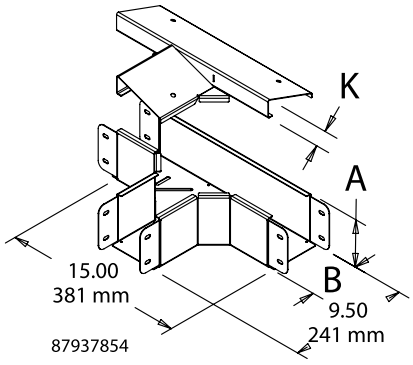
Catalog Number	AxB in.	AxB mm	Description	G (in.)	G (mm)	H (in.)	H (mm)	K (in.)	K (mm)
CT22TFCSS	2.00 x 2.00	51 x 51	Front Cover	3.00	152	10.00	254	–	–
CT33TFCSS	3.00 x 3.00	76 x 76	Front Cover	9.00	229	14.00	356	–	–
CT44TFCSS	4.00 x 4.00	102 x 102	Front Cover	7.00	178	11.00	279	–	–
CT46TFCSS	4.00 x 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

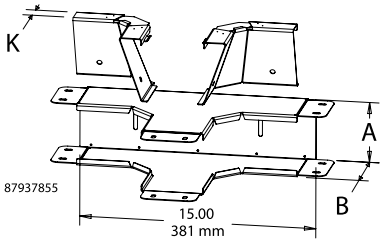


90-DEGREE TEE—INSIDE COVER SLOPED

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

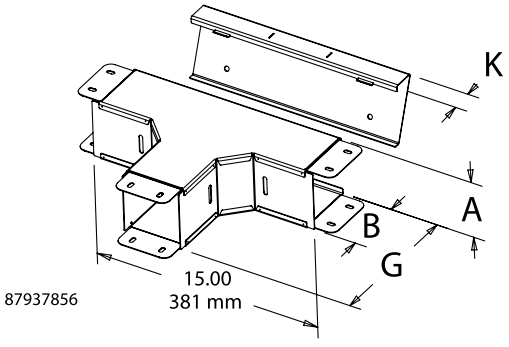


90-DEGREE TEE—OUTSIDE COVER SLOPED

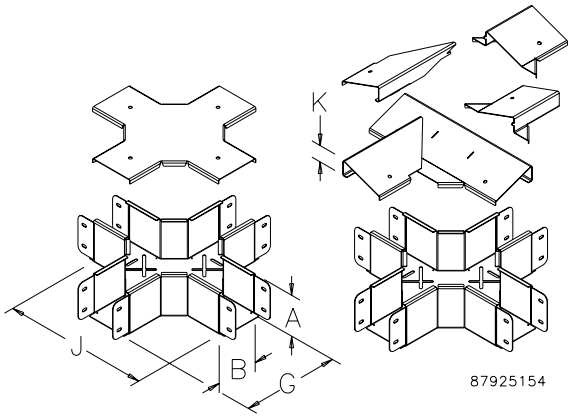
Used wherever two 90-degree transitions are required.

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

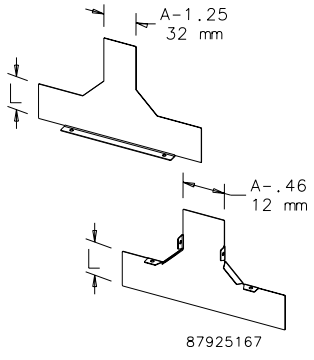
Catalog Number	AxB in.	AxB mm	Description	G (in.)	G (mm)	J (in.)	J (mm)	K (in.)	K (mm)
CT22CSS	2.00 x 2.00	51 x 51	Standard	6.00	152	10	254	—	—
CT33CSS	3.00 x 3.00	76 x 76	Standard	7.00	178	11.00	279	—	—
CT44CSS	4.00 x 4.00	102 x 102	Standard	9.00	229	14.00	356	—	—
CT46CSS	4.00 x 6.00	102 x 152	Standard	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

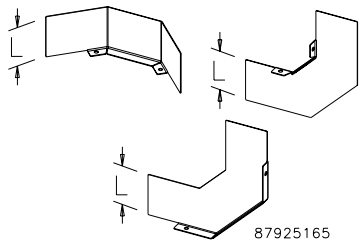


DIVIDER 90-DEGREE ELBOW

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

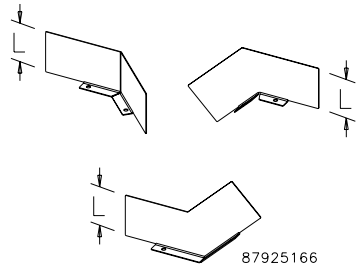


DIVIDER 45-DEGREE ELBOW

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

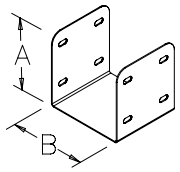


U-CONNECTOR

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



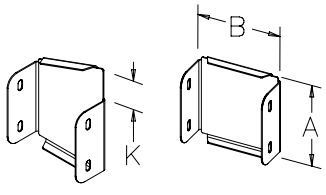
87925155

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



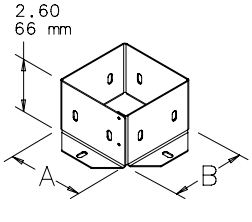
87925156

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

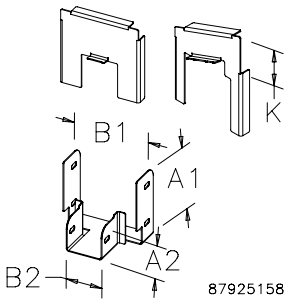


87925157

REDUCER

Used to reduce to a smaller size cable tray. Available with 20-degree slope in some sizes (right slope shown).

BULLETIN: F23



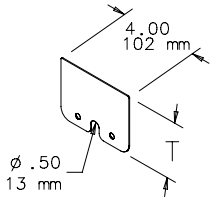
Catalog Number	AxB in.	AxB mm	Description	A2 (in.)	A2 (mm)	B2 (in.)	B2 (mm)	K (in.)	K (mm)
CT3322RSS	3.00 x 3.00	76 x 76	3 x 3 2 x 2 Standard	2.00	51	2.00	51	—	—
CT4433RSS	4.00 x 4.00	102 x 102	4 x 4 3 x 3 Standard	3.00	76	3.00	76	—	—
CT4422RSS	4.00 x 4.00	102 x 102	4 x4 2 x 2 Standard	2.00	51	2.00	51	—	—
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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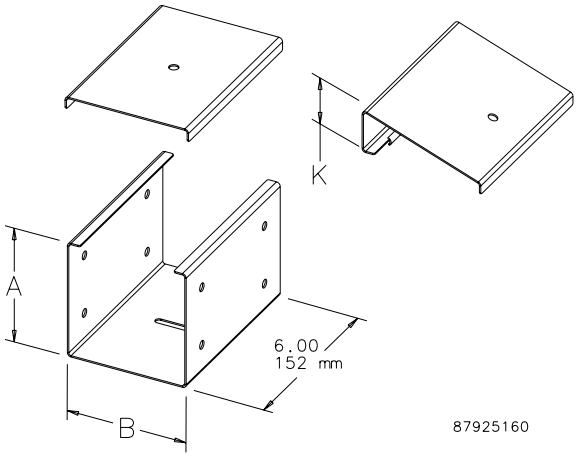
STRAIGHT SECTION SPLICE

Used to connect two fittings with tabs. Available with 20-degree slope in some sizes.

BULLETIN: F23



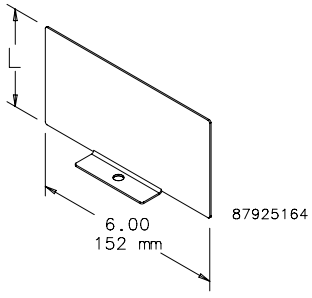
Catalog Number	AxB in.	AxB mm	Description	K (in.)	K (mm)
CT22SPSS	2.00 x 2.00	51 x 51	Standard	—	—
CT33SPSS	3.00 x 3.00	76 x 76	Standard	—	—
CT44SPSS	4.00 x 4.00	102 x 102	Standard	—	—
CT46SPSS	4.00 x 6.00	102 x 152	Standard	—	—
CT66SPSS	6.00 x 6.00	152 x 152	Standard	—	—
CT22PSPSS	2.00 x 2.00	51 x 51	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



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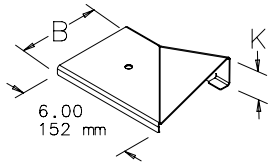
TRANSITION COVER

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



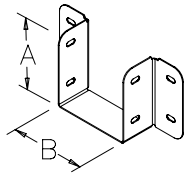
87925161

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

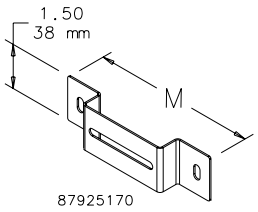
Catalog Number	Screws	Nuts
CT1420SS	100	100

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



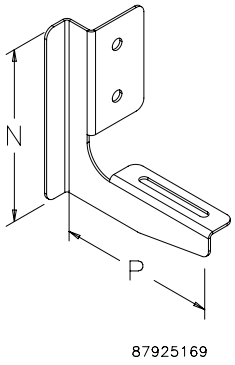
L-BRACKET

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

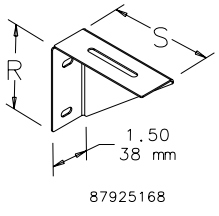


WALL BRACKET

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	—

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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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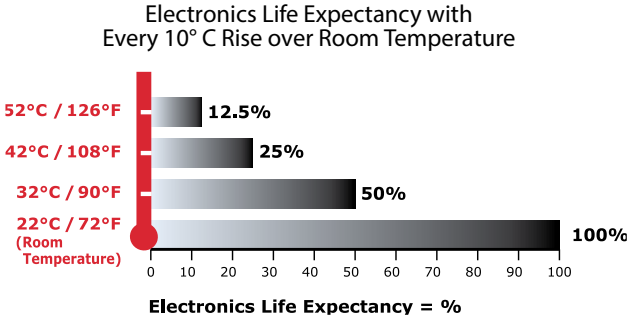
WHY COOL ELECTRICAL EQUIPMENT IN THE FIRST PLACE?

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

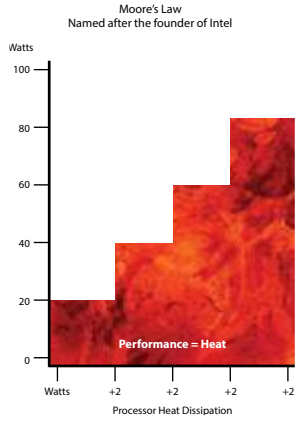
Heat also comes from sources outside the enclosure such as:

- 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

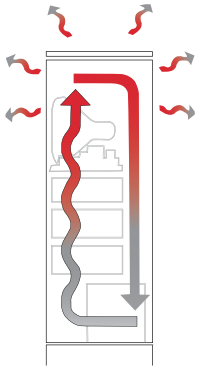
Direct costs to a business can be as much as $50,000 per hour of system downtime.

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.

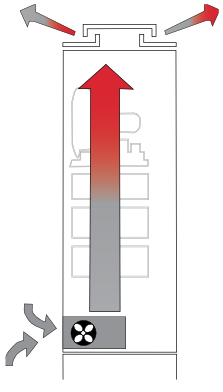


FRESH AIR ENCLOSURE COOLING

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.



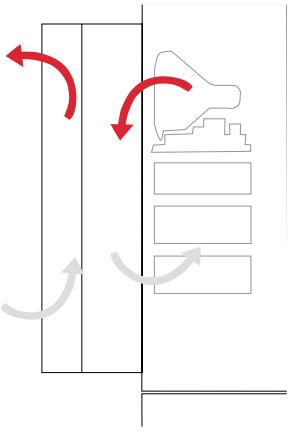
SEALED ENCLOSURE COOLING

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.



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)

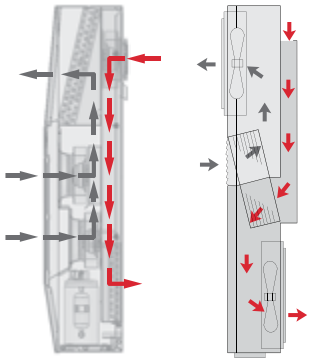
If most of your assessments fell on the fresh air side, then a filter fan, fan tray, motorized impeller or blower is probably the correct cooling solution for your application. However, if most of your assessments were on the protective side, then an air conditioner or heat exchanger found in the Is 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

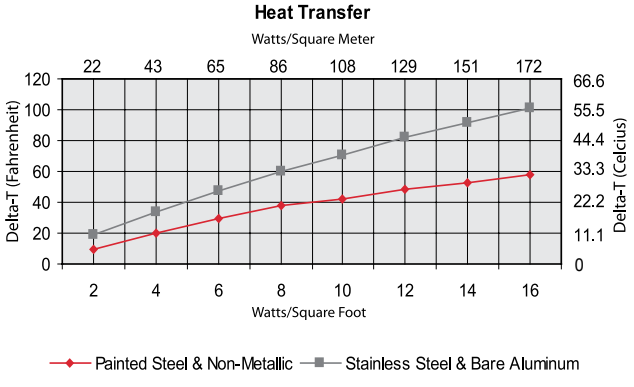
This method is reasonably accurate for most indoor industrial systems where there is no unusual air movement and insulation is not typically used inside the enclosure. The process also provides a ballpark result for outside plant and telecommunications applications, taking into account solar heat gain. 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

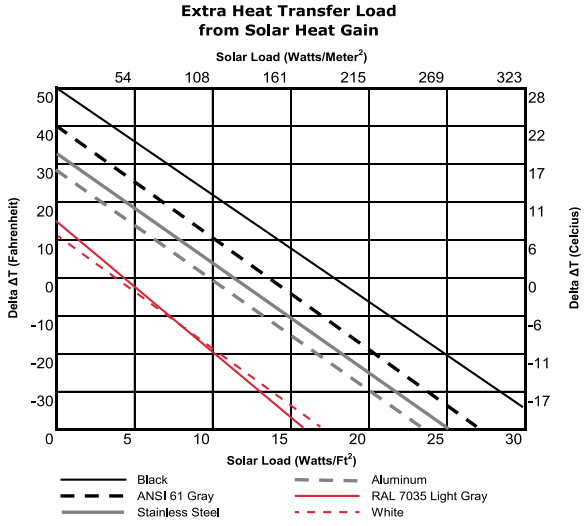


For example:
A painted steel cabinet has 80 ft.^{2} of surface area and will be located in a maximum ambient temperature of 95 F. The rated temperature of the electrical equipment is 75 F.

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 $ft.^2 \times 72$ $ft.^2$).

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 98.

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 99, 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 99 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 98, 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 99). 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 99, 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 98. 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 100.

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.

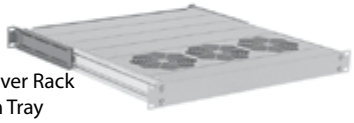
Power input, protection level and dimensions of the heat exchanger also need to fit the system.

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

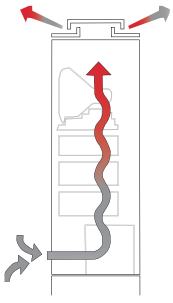
As one may conclude by looking at the products, each fresh air cooling solution can vary in terms of:

- 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.

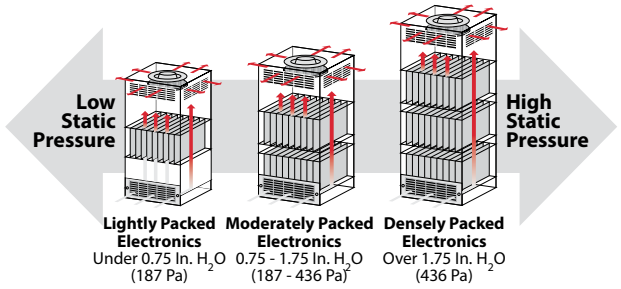
WHAT IS AIRFLOW?

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.

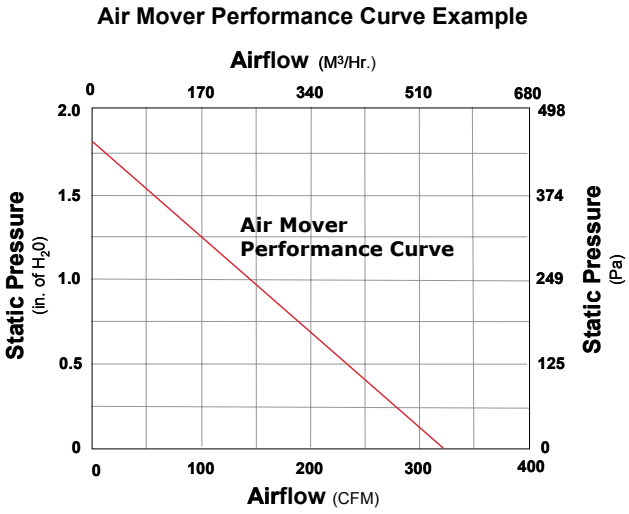


HOW IS PERFORMANCE CHARACTERIZED?

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

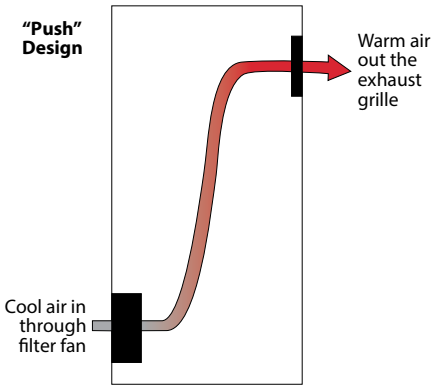
Centrifugal blowers deliver moderate to high airflow and overcome the system impedance that builds up in electrical cabinets with moderate to high static pressure. They're primarily available for VAC power input and are relatively higher priced.

Characteristics of Popular Air Movers

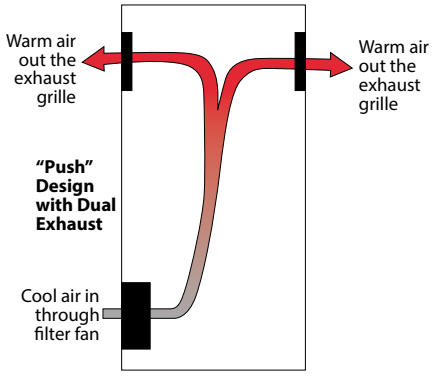
Characteristics	Axial Fans	Filter Fans	Fan Trays	Motorized Impellers	Centrifugal Blowers
Airflow	Low	Low - Moderate	Low - Moderate	Moderate - High	Moderate - High
Static Pressure	Low	Low	Low	Moderate - High	Moderate - High
Voltage Input	AC (some DC)	AC and DC	AC (some DC)	AC and DC	AC
Protection	None	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

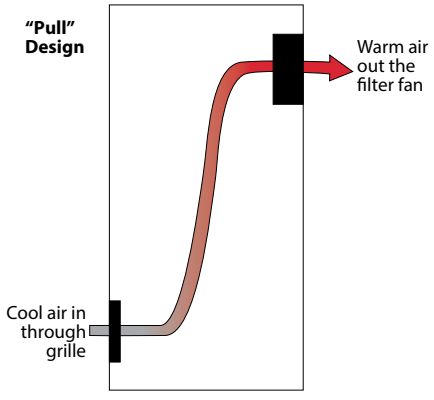
A typical air mover system design "pushes" cool air into the bottom of the electrical cabinet and exhausts the warm air out the top



To reduce exhaust grille static pressure and improve cool airflow, some engineers use two exhaust grilles in their airflow design.

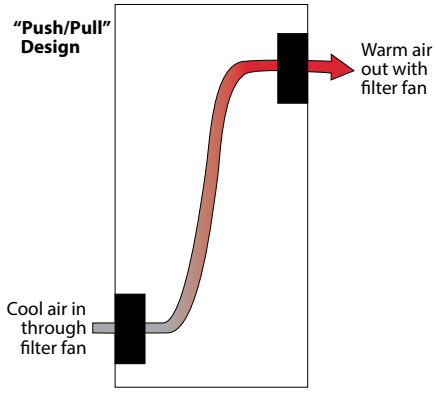


Another option is to use a reverse airflow fan and mount it high in the enclosure to "pull" cool air through the enclosure.

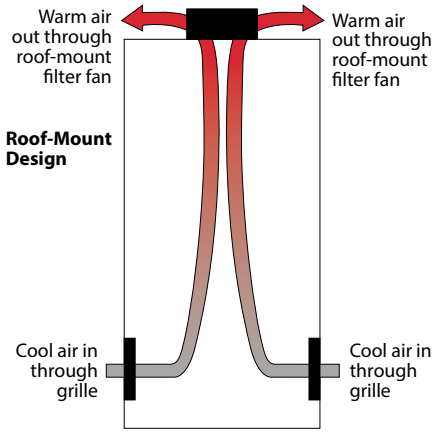


The "pull" approach is less desirable because it de-pressurizes the enclosure. If poor seals are in the cabinet at a door or modular panel, for example, damaging dust could be sucked inside and onto the electrical components. However, space constraints at the bottom of the enclosure may force the engineer 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.

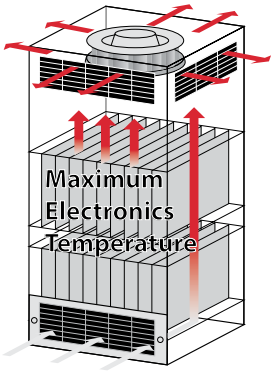
1. Determine Delta-T
2. Determine Internal Heat Load
3. Determine Free Airflow
4. Estimate System Impedance
5. Select Your Filter Fan

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.

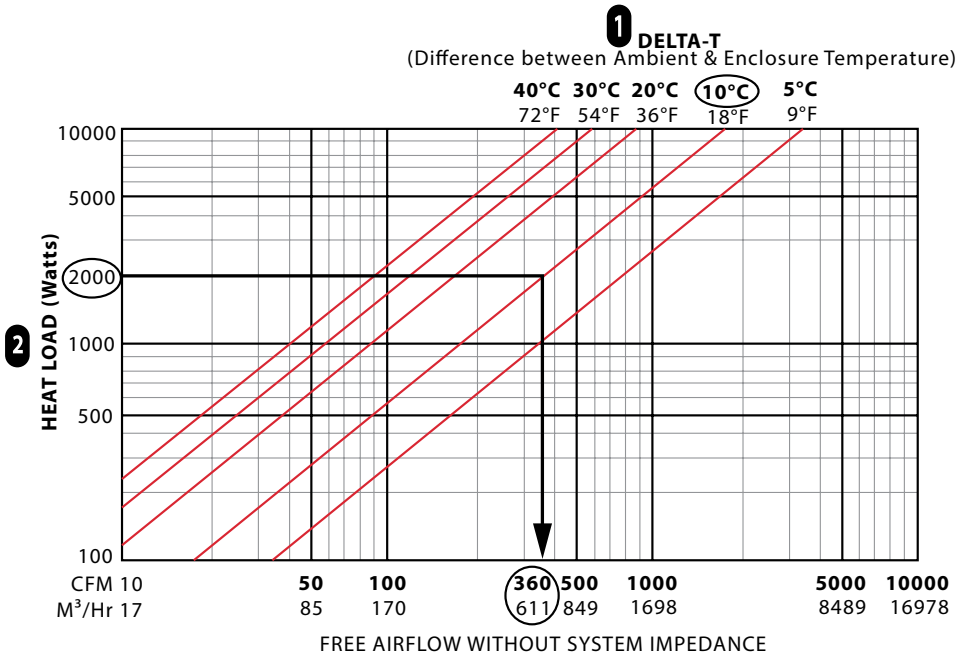
STEP 3. DETERMINE FREE AIRFLOW

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.

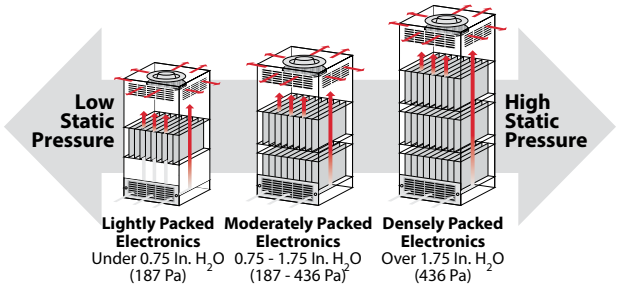
Find where heat load intersects with ΔT to determine free airflow on the X-axis. Continuing the example, free airflow in this case is 360 CFM or 611 M^3/Hr.



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

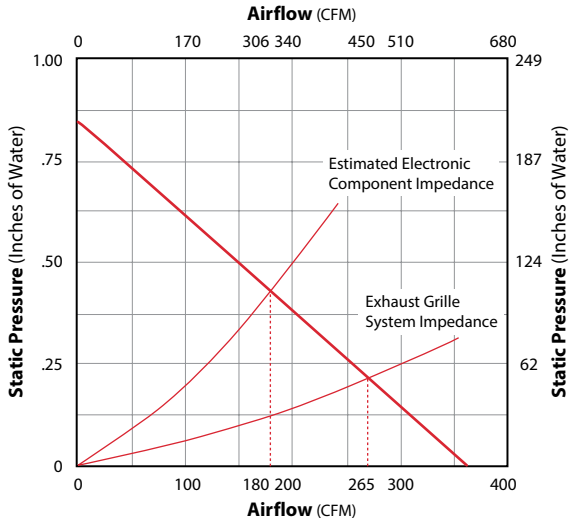
Static pressure or system impedance can impact the cooling performance of an air mover. Filter fans work well in electrical cabinets with low static pressure such as a large enclosure with a bare drive and few other components. They do not have enough force to push air through a cabinet with a moderate 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.

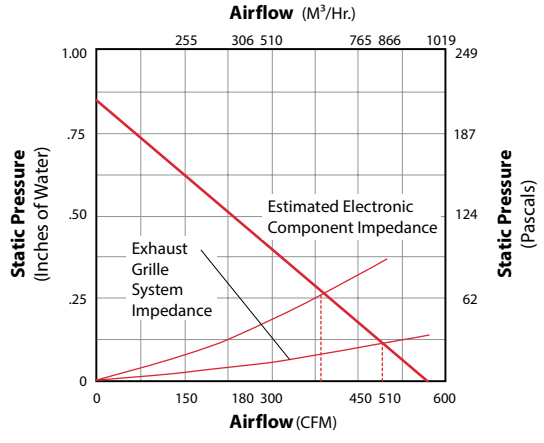
STEP 5. SELECT YOUR AIR MOVER

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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- This material is reproduced with permission from the Canadian Standards Association.
- 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

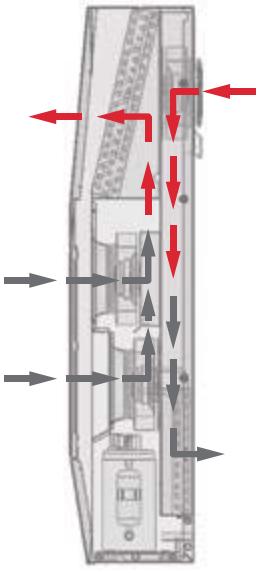
nVent | HOFFMAN

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



Clean AirFlow
Ambient AirFlow

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.

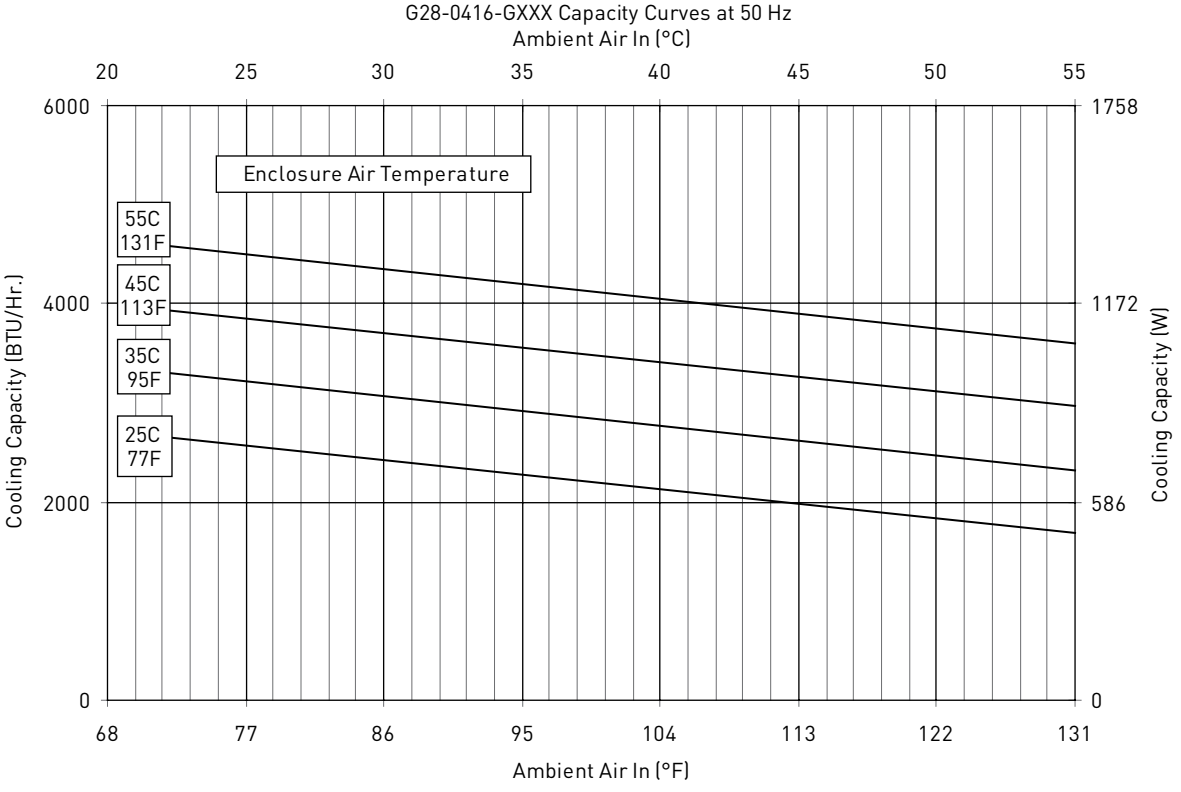
EtherNet/IP ODVA PI PROFIBUS • PROFINET

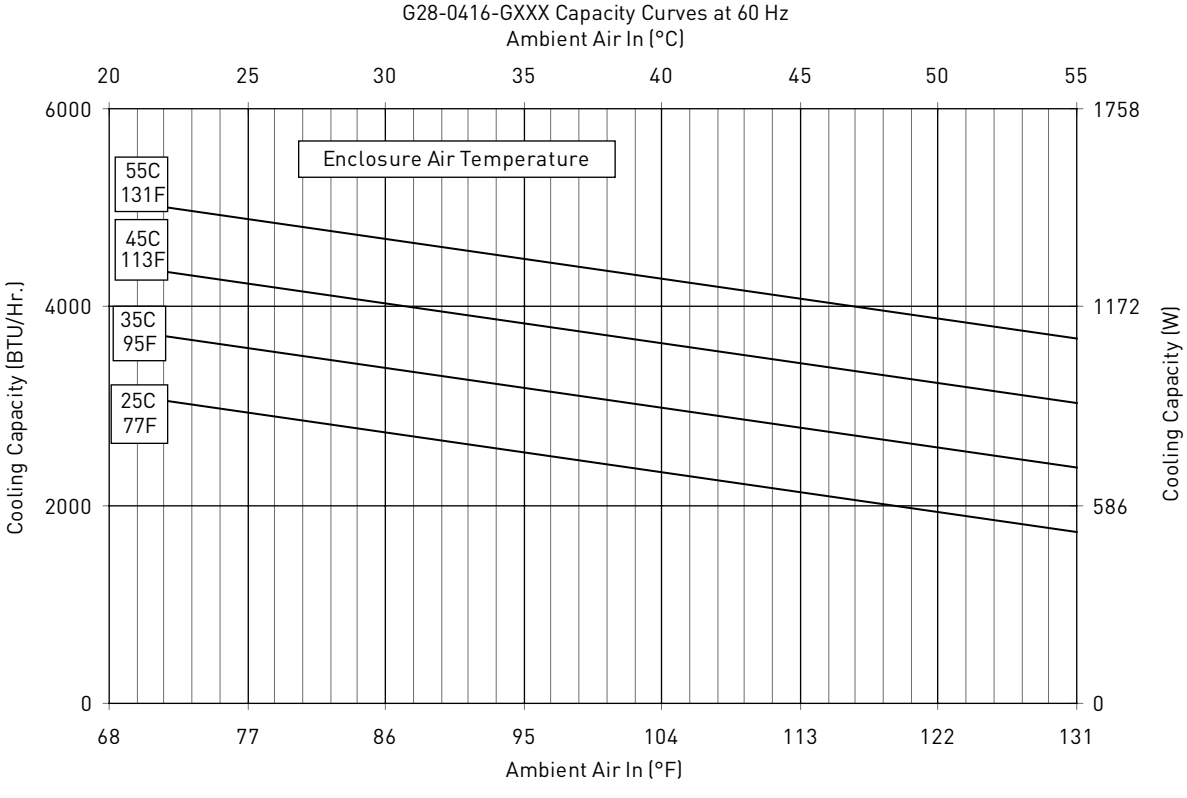
Performance Data **G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)**

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

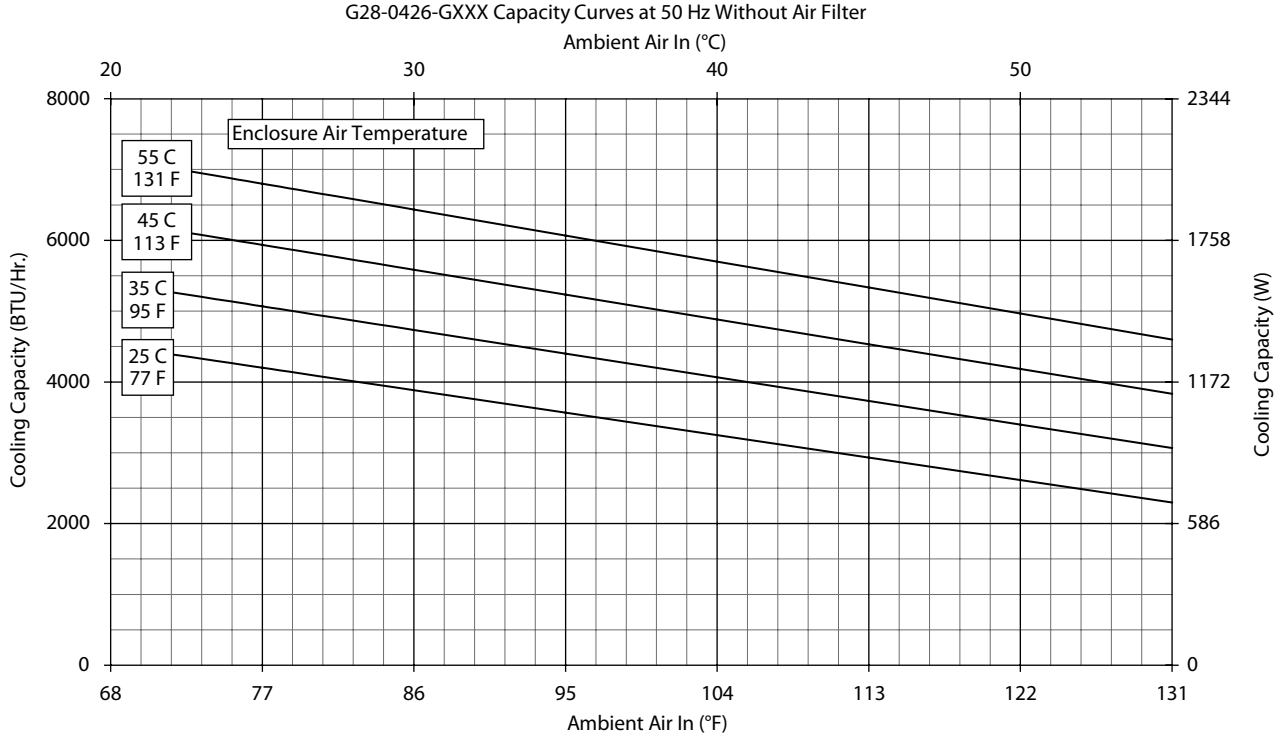
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

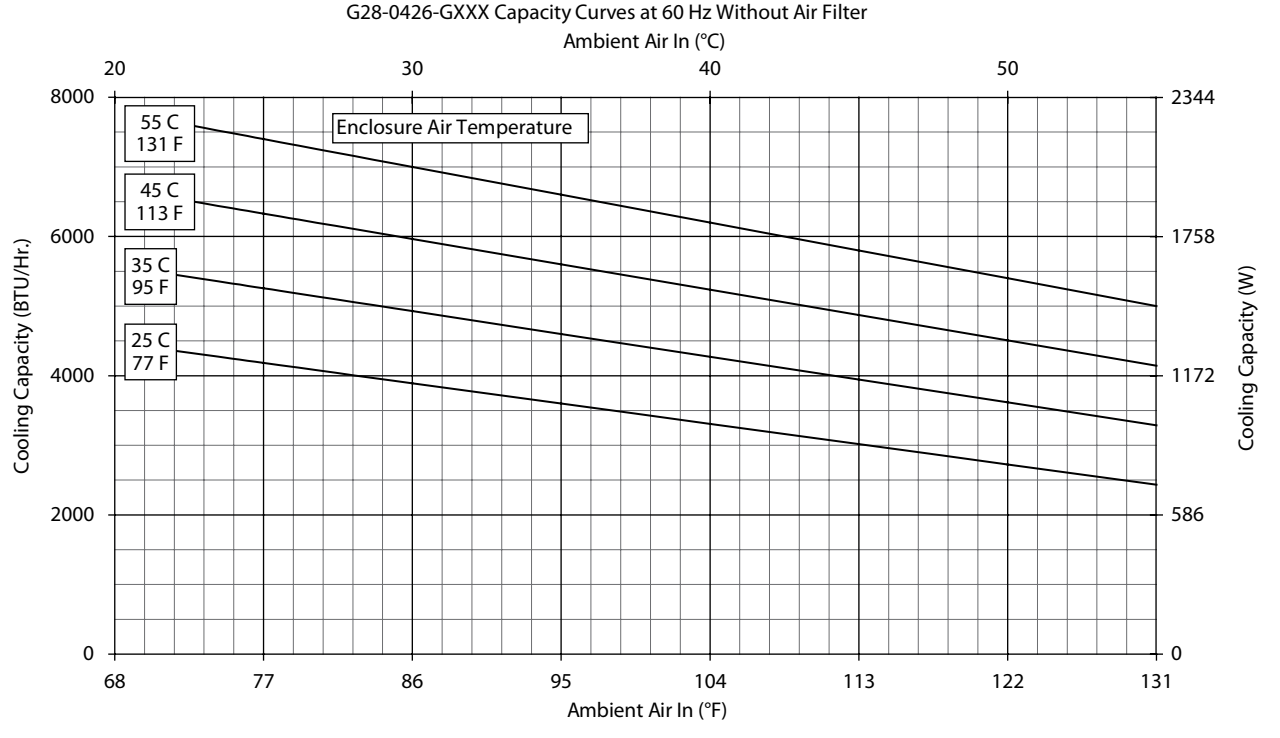
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)





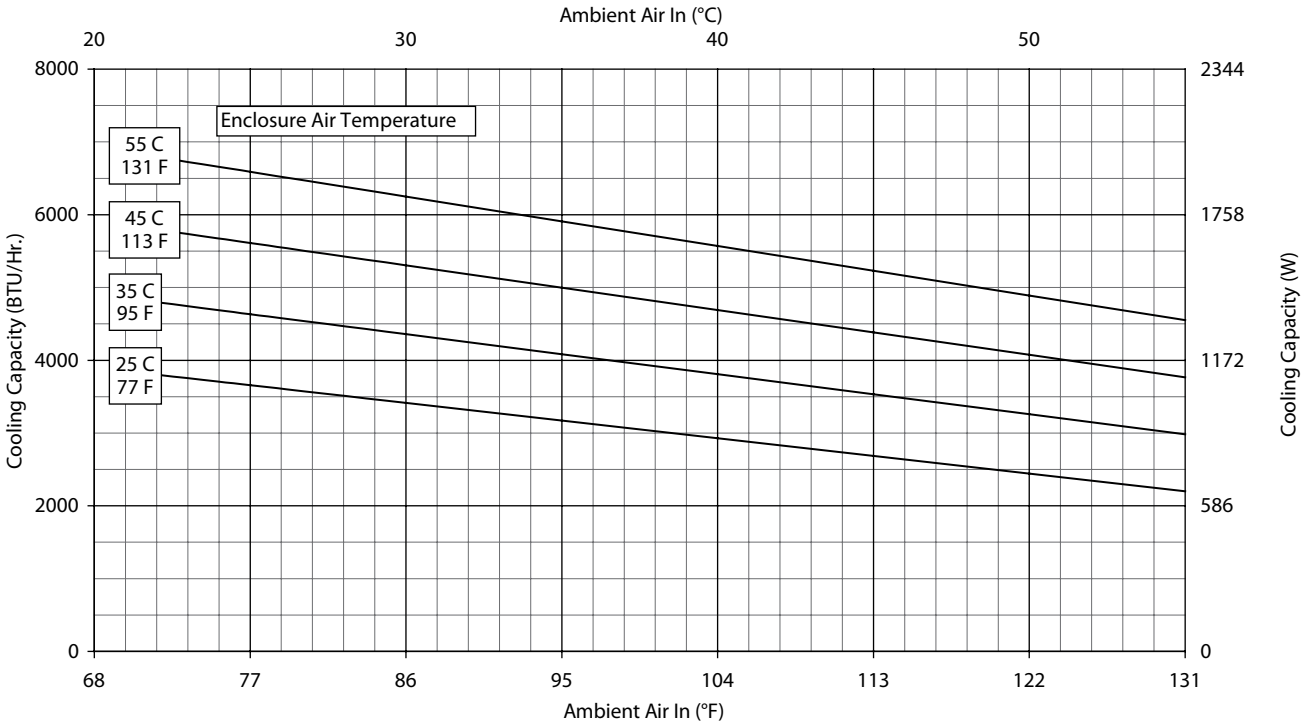
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)



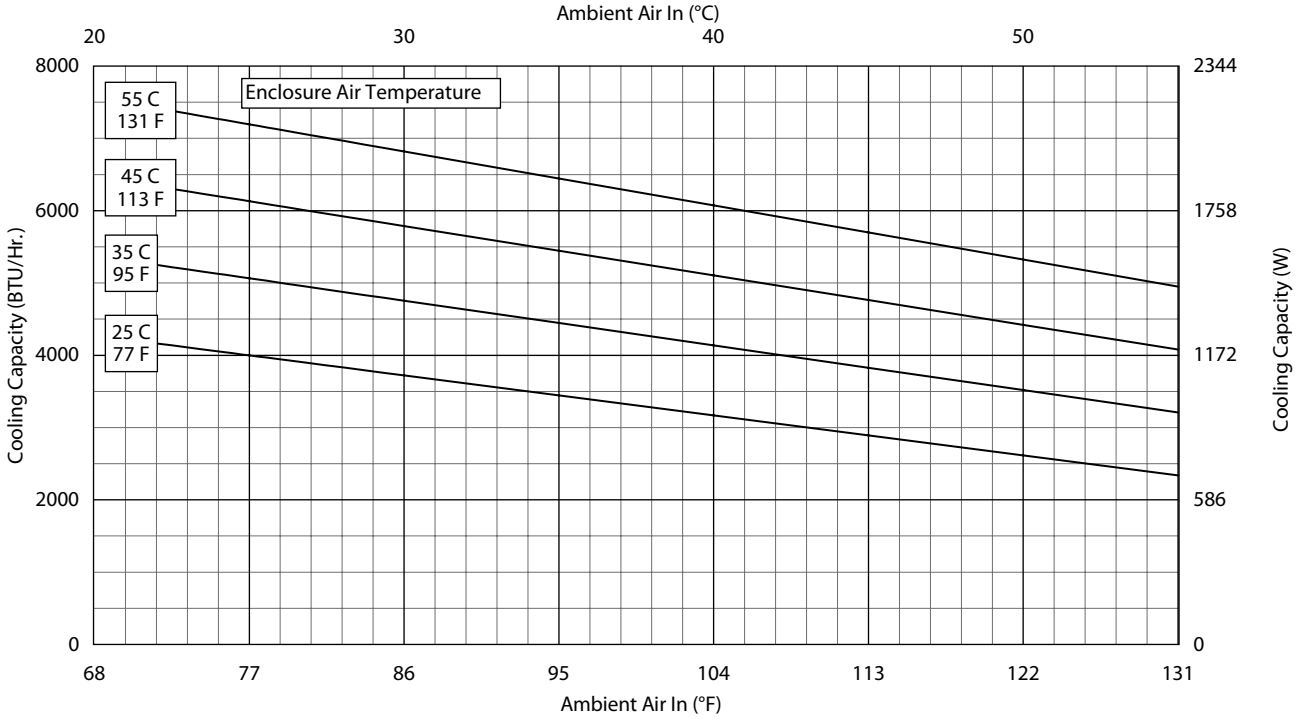


Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)

G28-0446-GXXX- Capacity Curves at 50 Hz; Without Filter

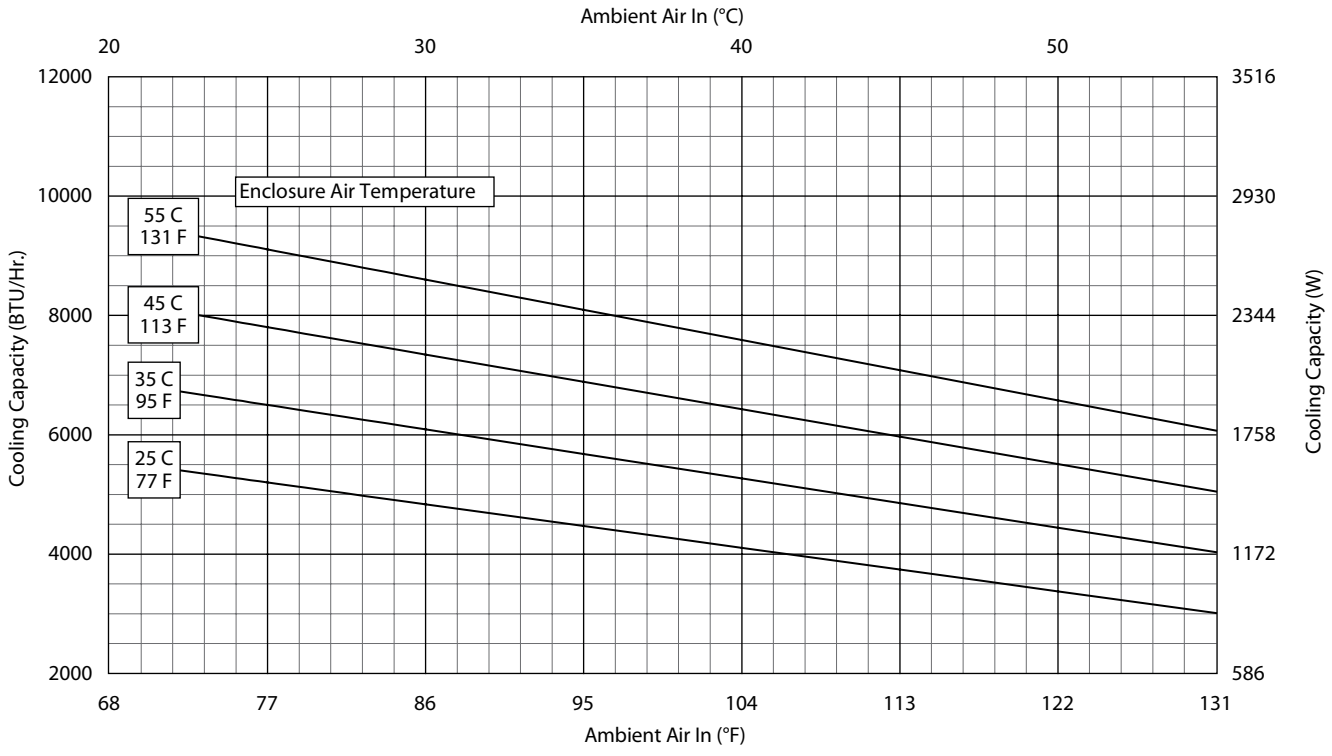


G28-0446-GXXX- Capacity Curves at 60 Hz; Without Filter

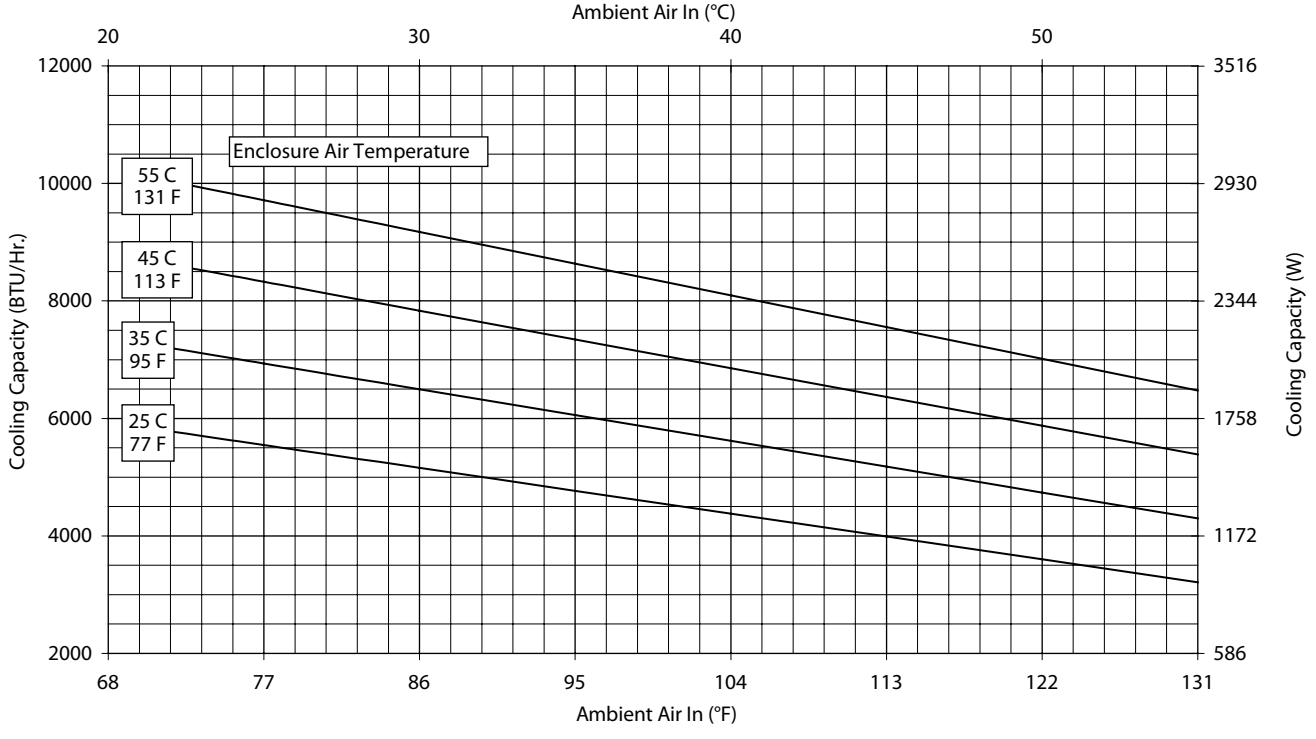


Performance Curves for G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)

G28-06(1/2)6-GXXX Capacity Curves at 50 Hz Without Filter

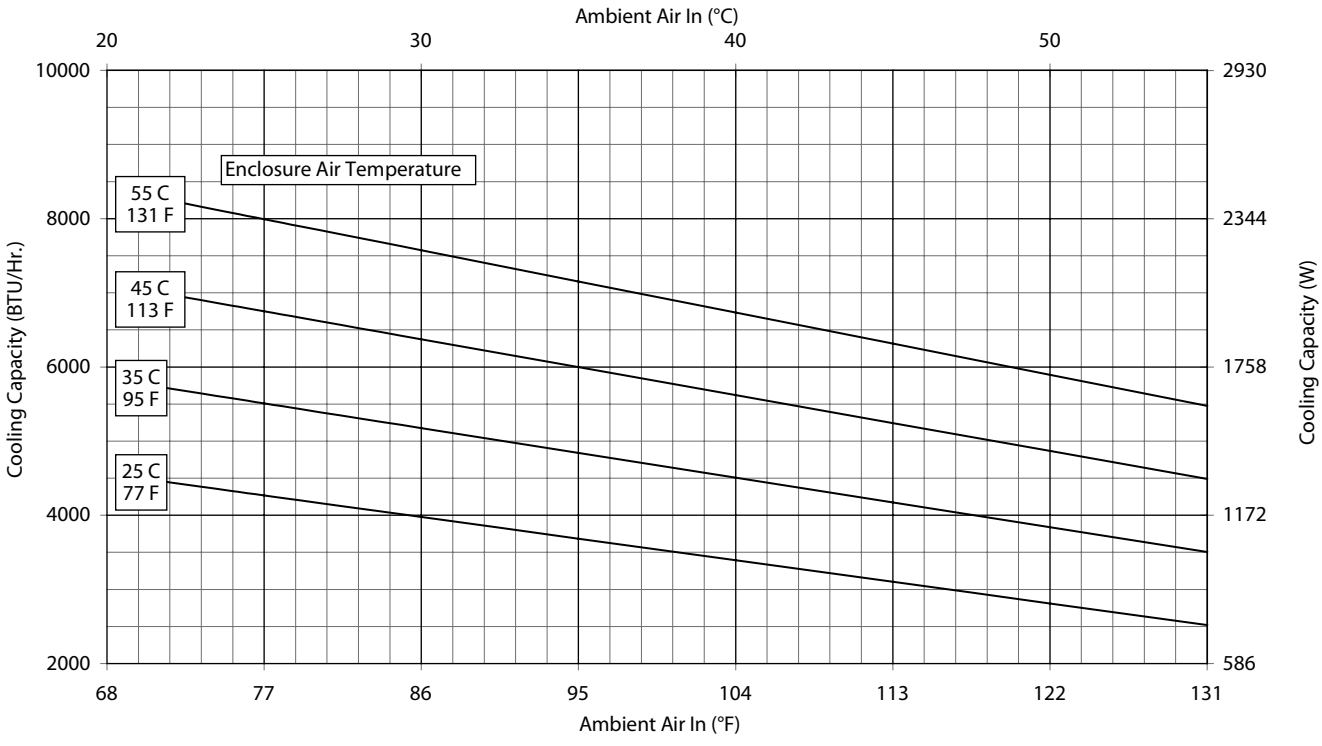


G28-06(1/2)6-G002-P#2 Capacity Curves at 60 Hz Without Filter

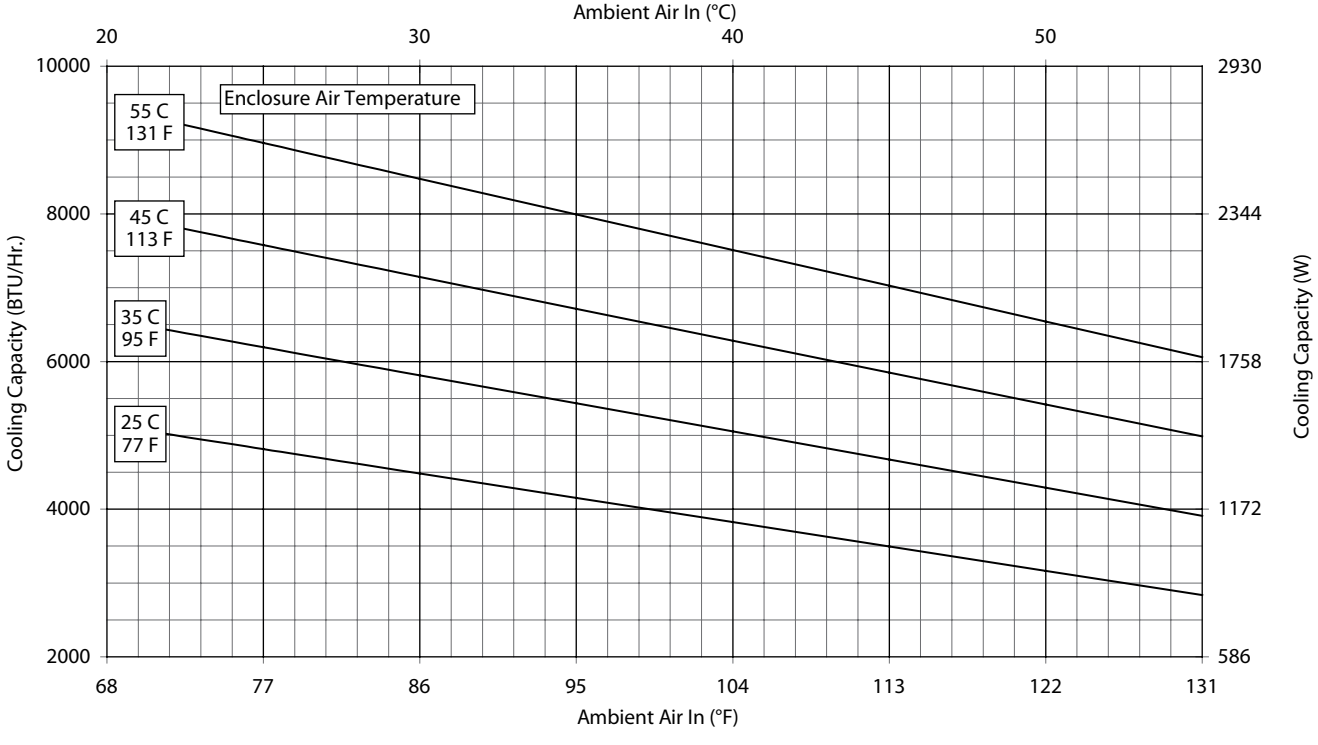


Performance Curves for G28 Models 6000 BTU/Hr. (1758 Watt)

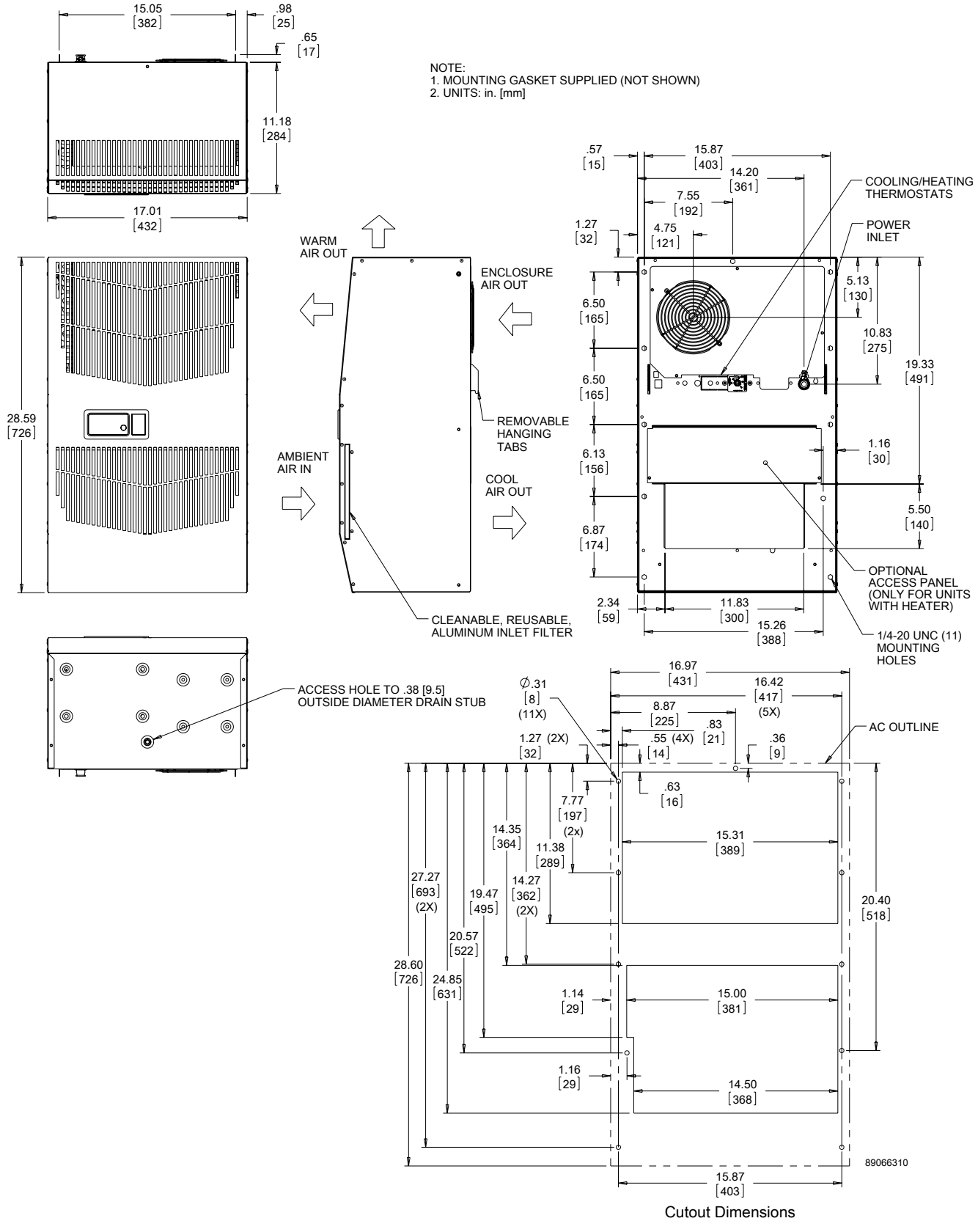
G28-0646-GXXX Performance Curve 400VAC/50Hz Without Air Filter



G28-0646-GXXX Performance Curve 460VAC/60Hz Without Air Filter



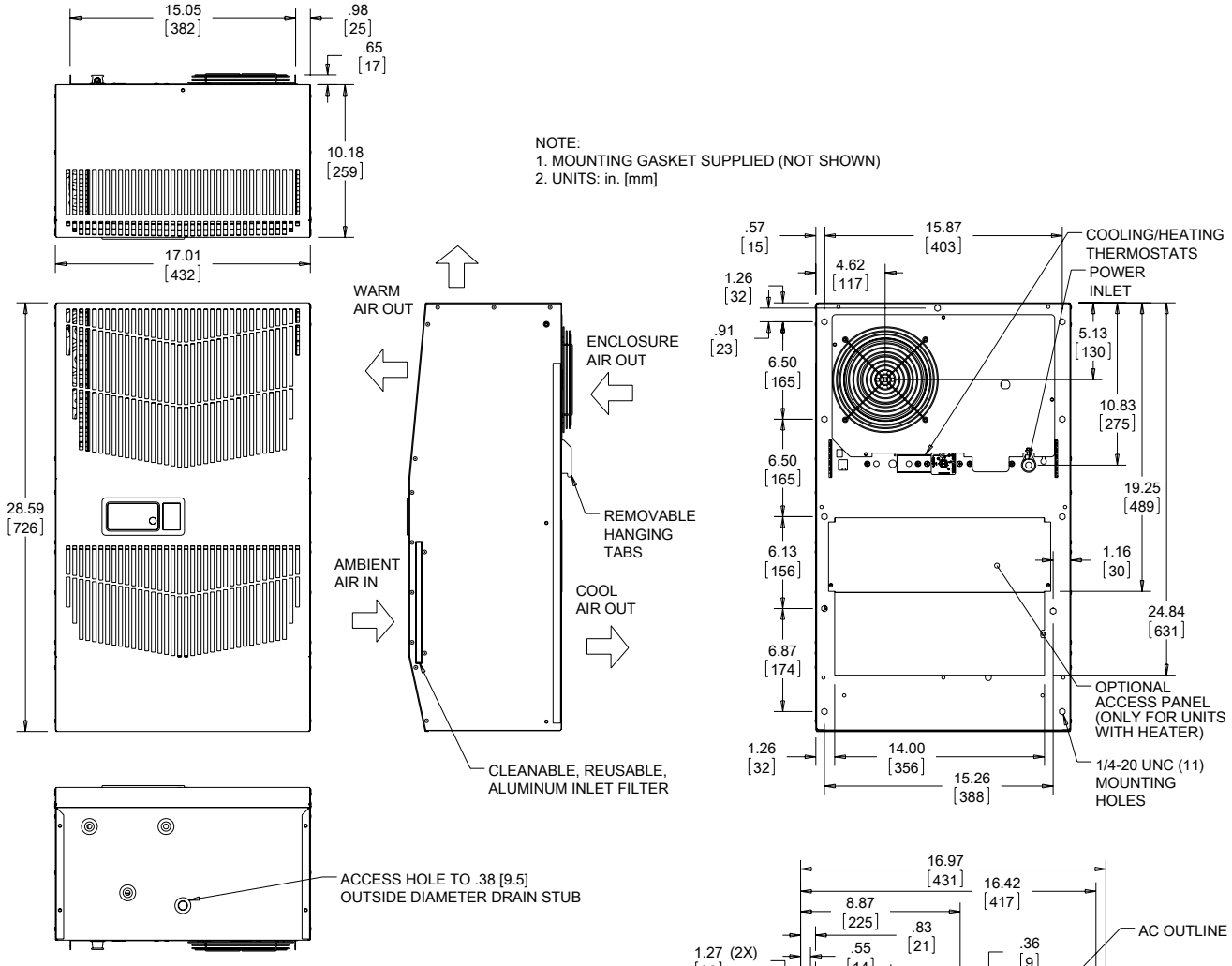
G28 Models 4000 BTU/Hr. 115 V (1172 Watt)

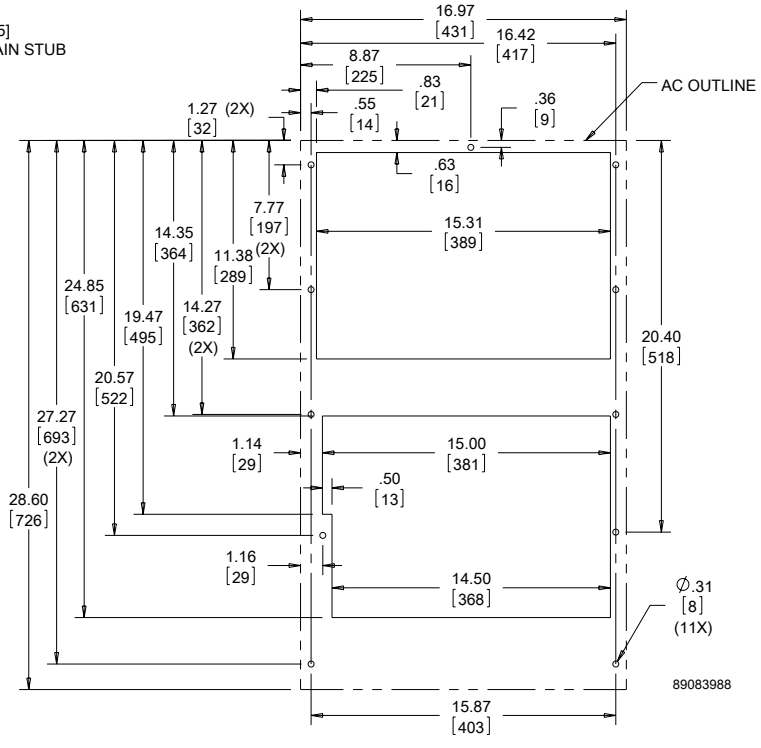


Cutout Dimensions

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)

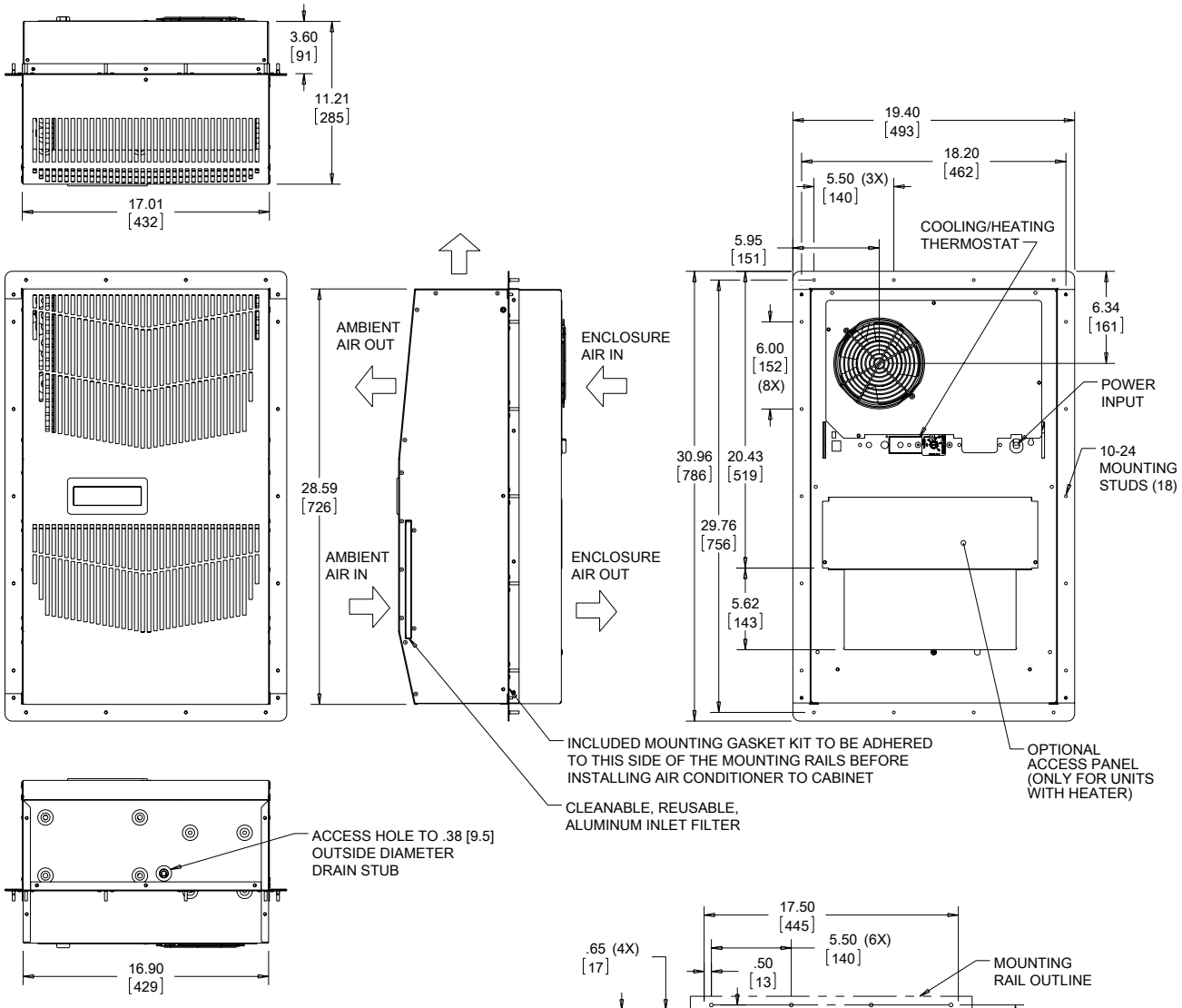


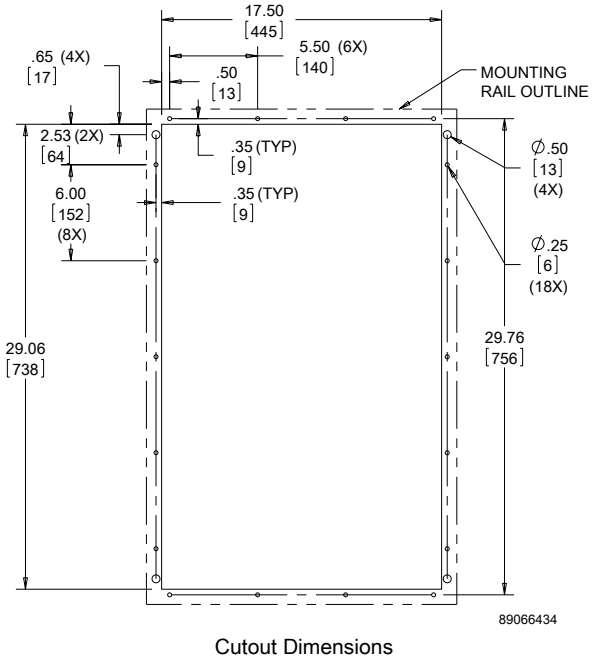


Cutout Dimensions

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

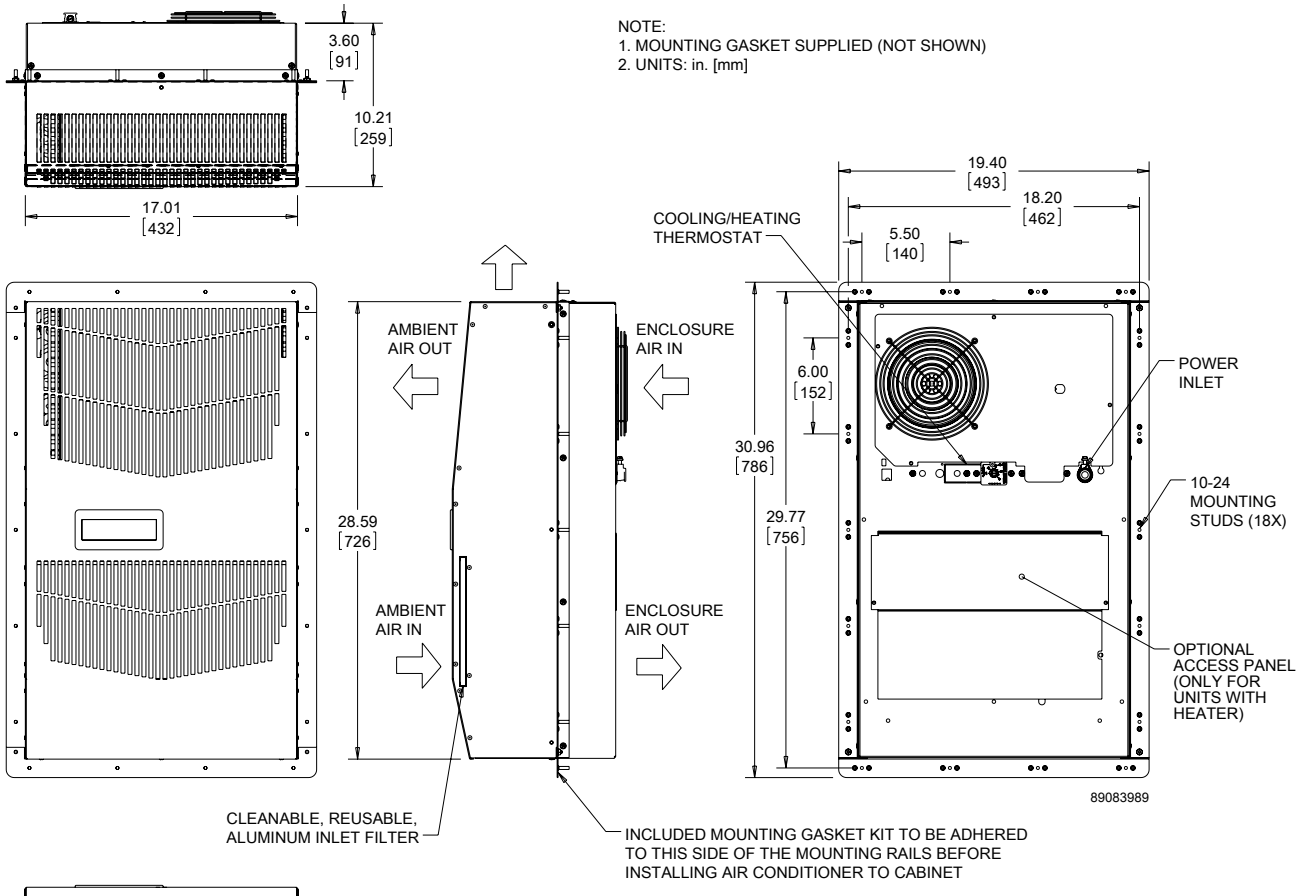




Cutout Dimensions

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.

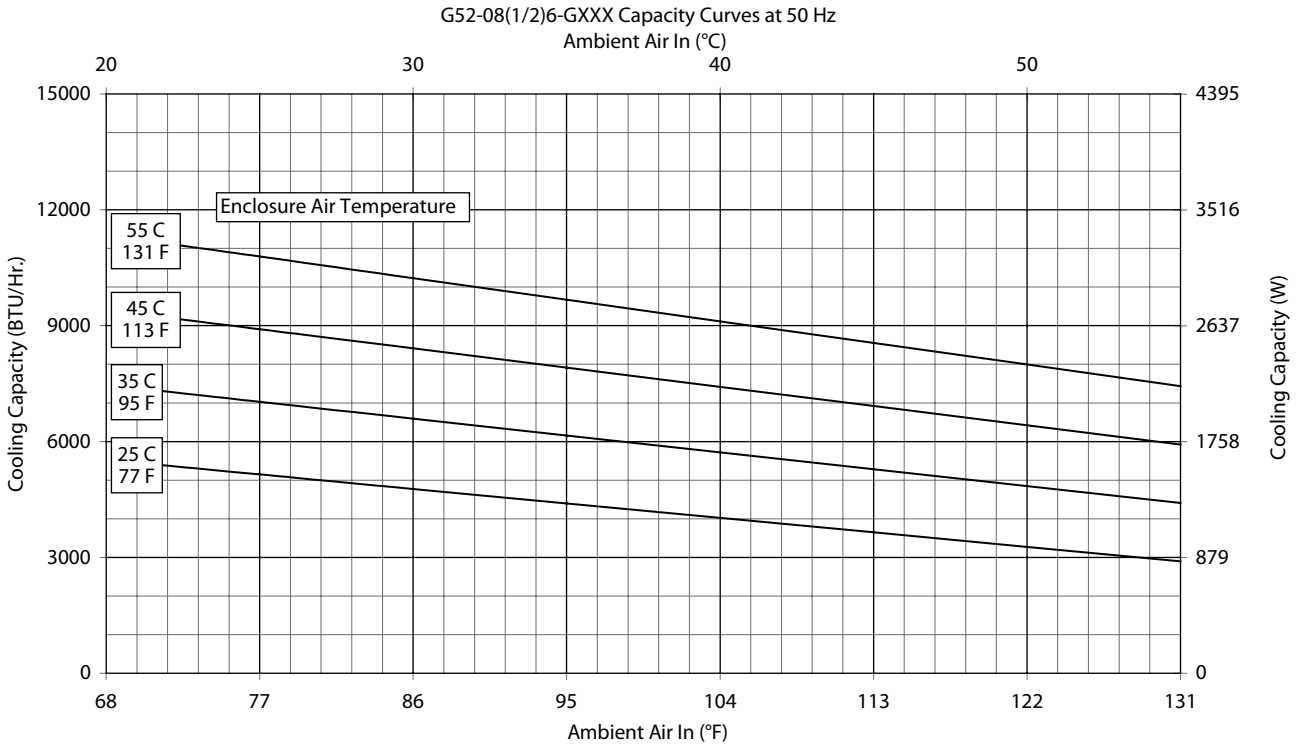
Performance Data **G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)**

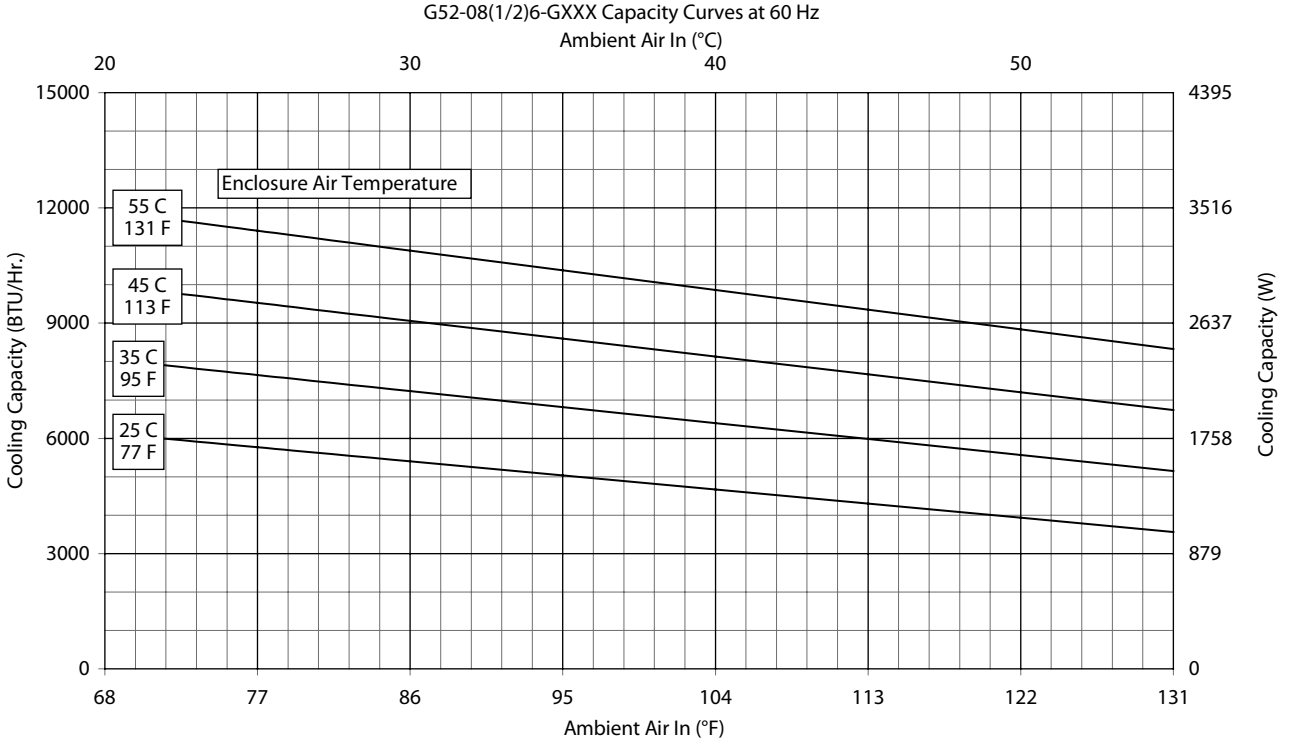
CATALOG NUMBER						
Indoor Model	G520816G050	G520826G050	G520846G050	G521216G050	G521226G050	G521246G050
Indoor Model Stainless Steel Type 4X	G520816G051	G520826G051	G520846G051	G521216G051	G521226G051	G521246G051
Indoor Model with Remote Access Control*	G520816G060	G520826G060	G520846G060	G521216G060	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.

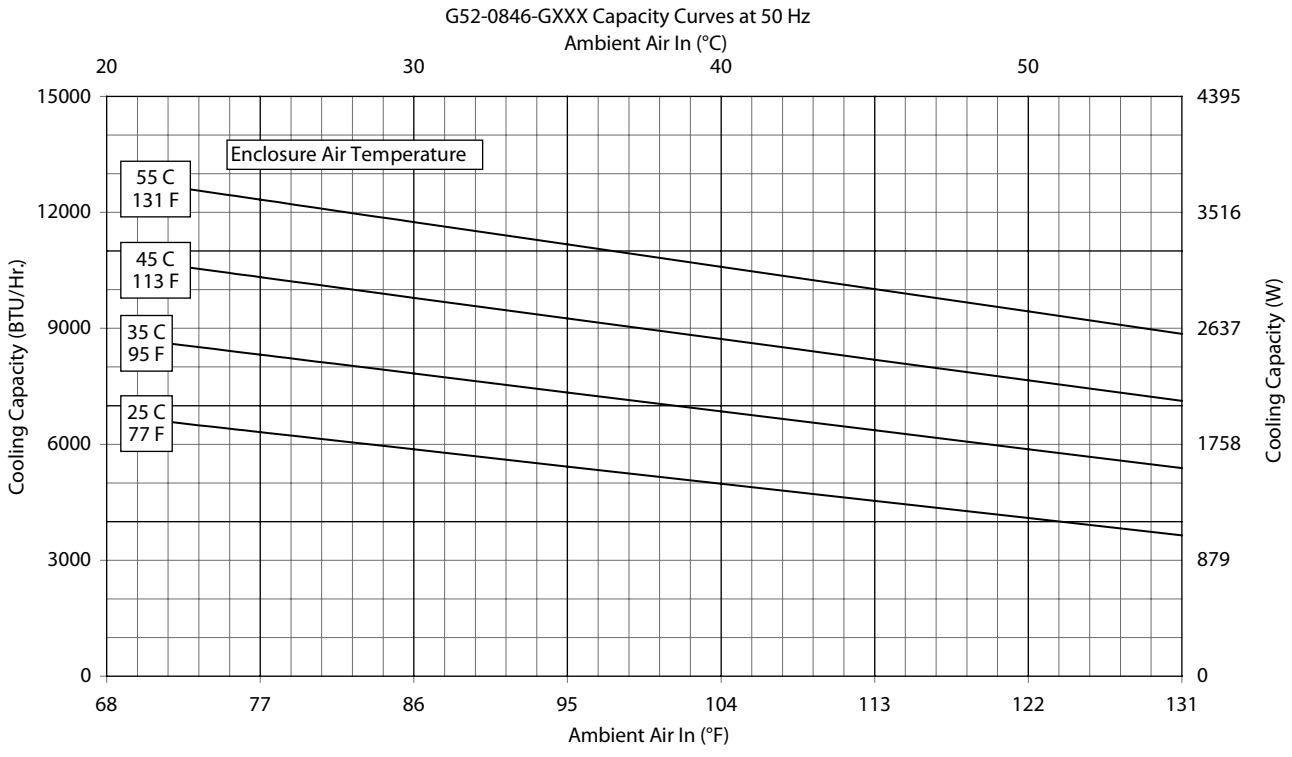
**Watts based on .65 power factor.

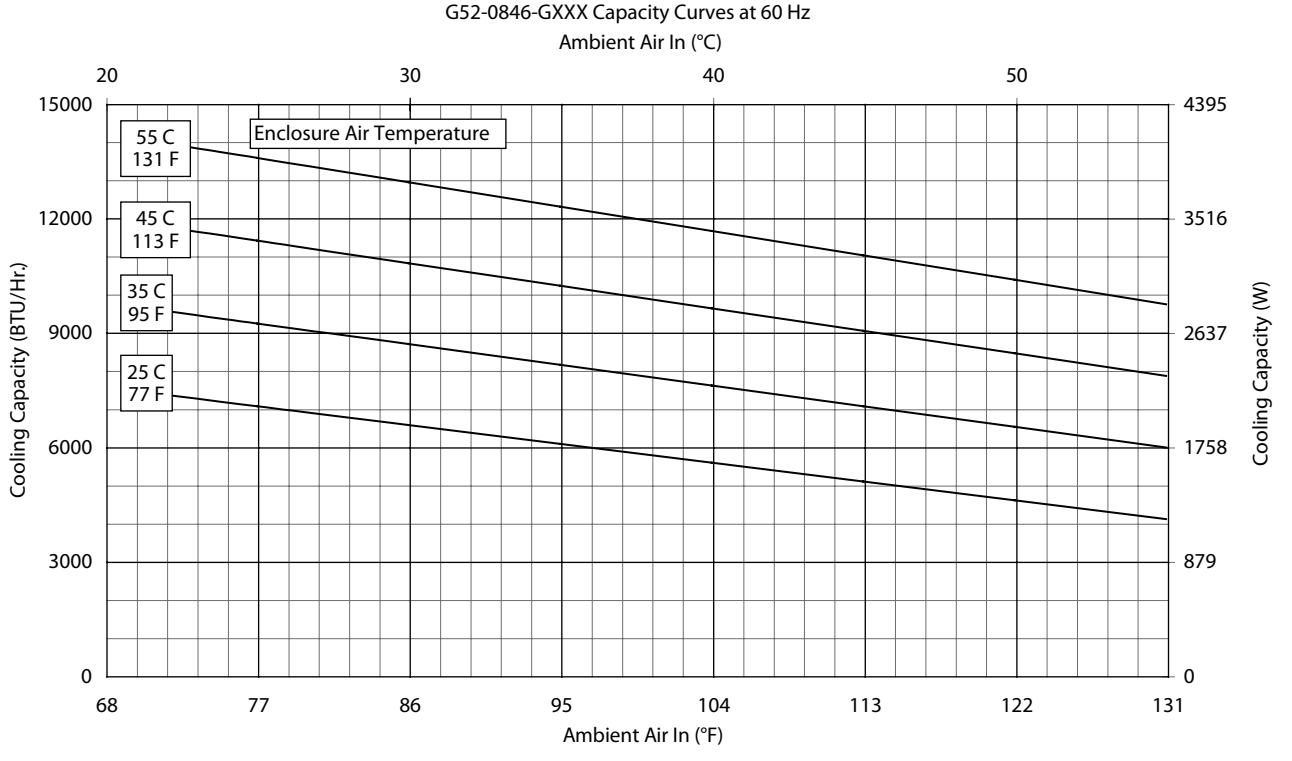
Performance Curves for G52 Models 8000 BTU/Hr. (23 Watt)



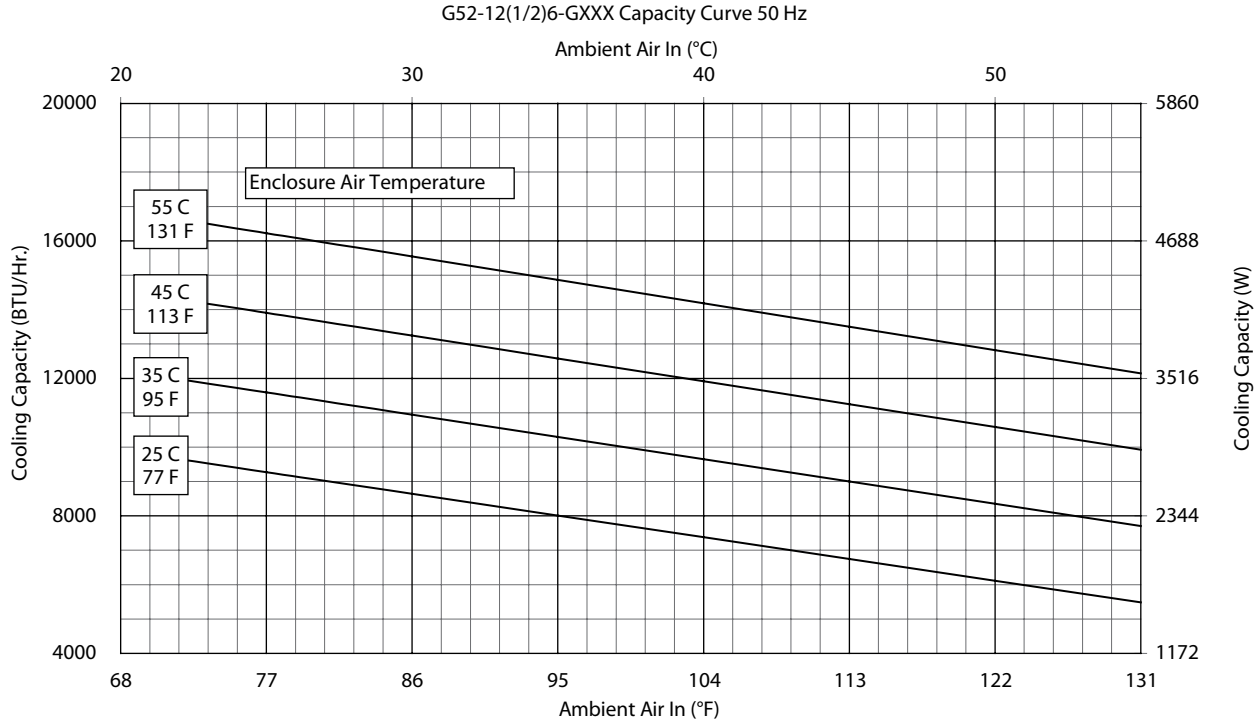


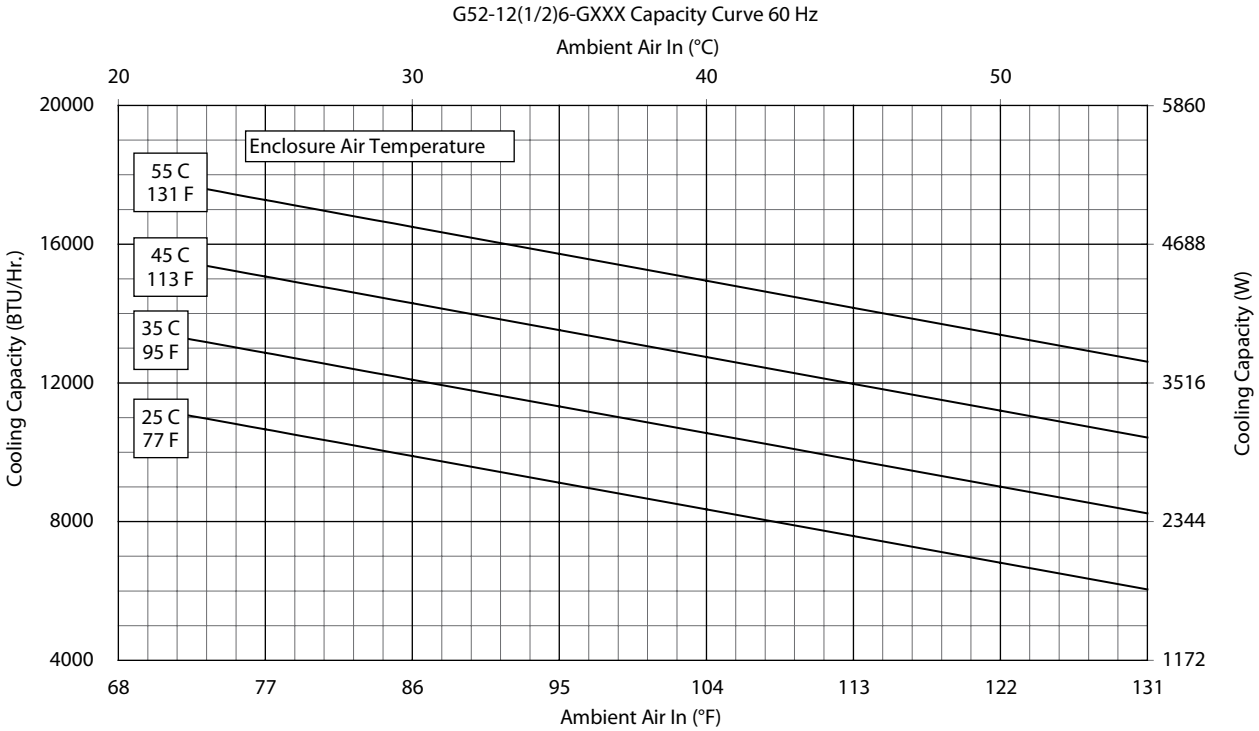
Performance Curves for G52 Models 8000 BTU/Hr. (2300 Watt)



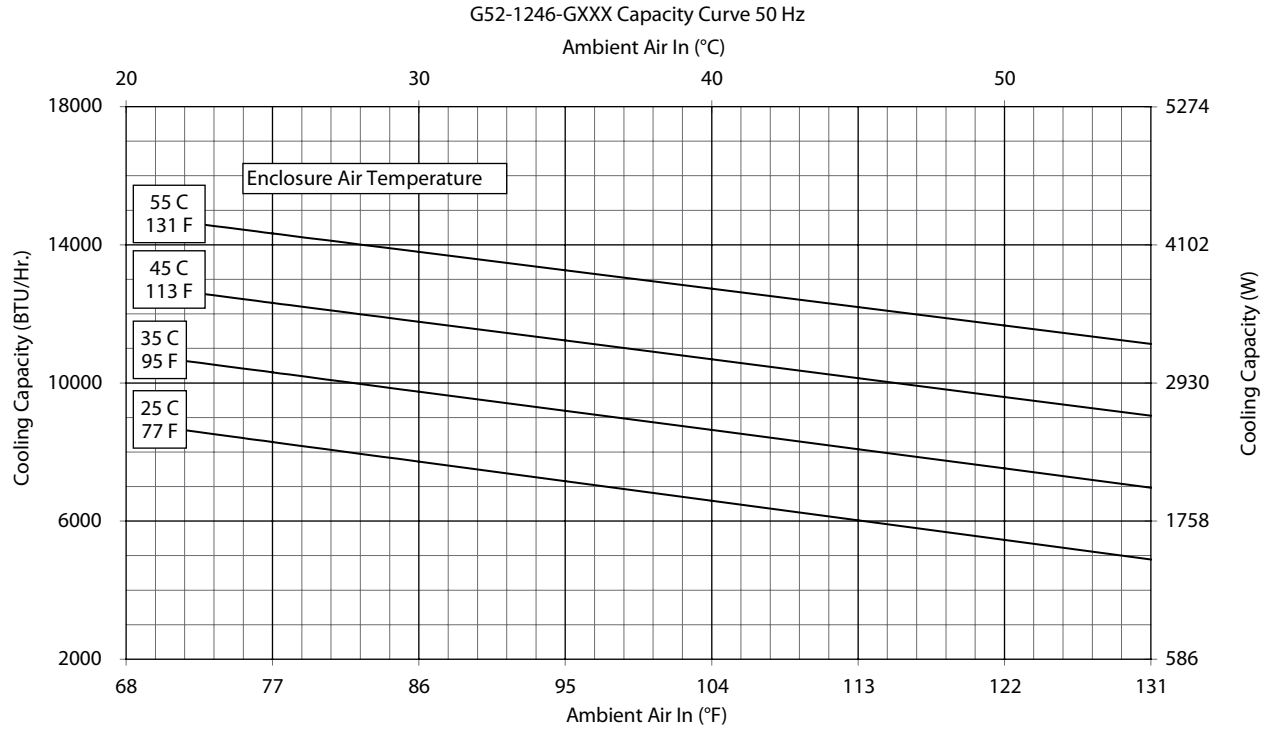


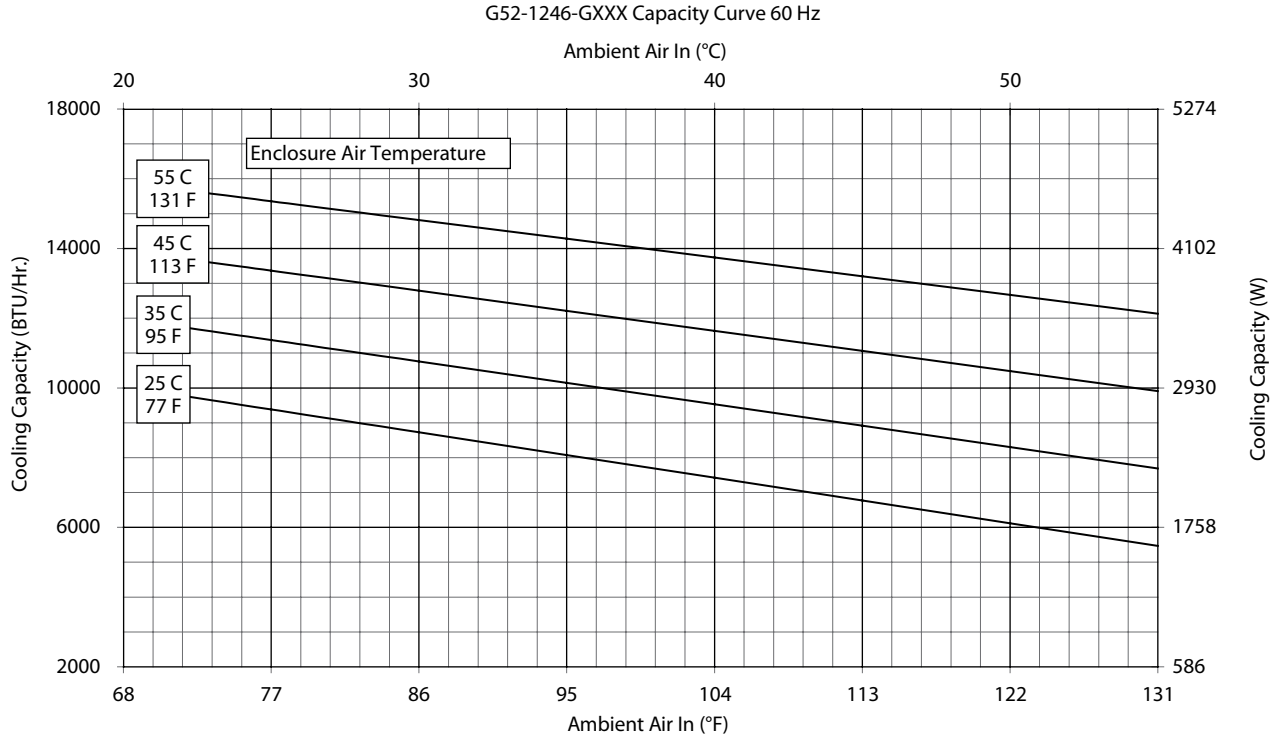
Performance Curves for G52 Models 12000 BTU/Hr. (3500 Watt)



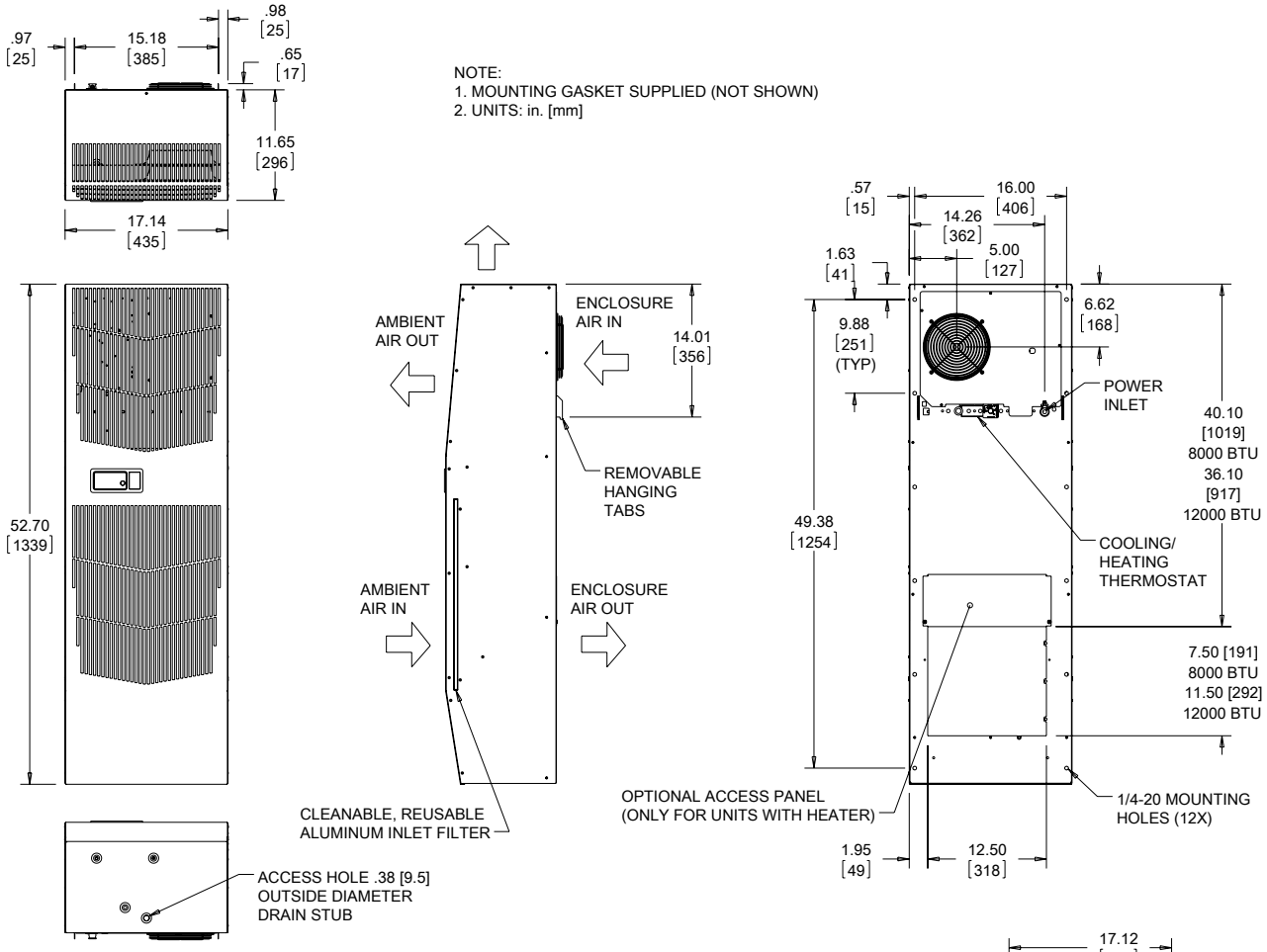


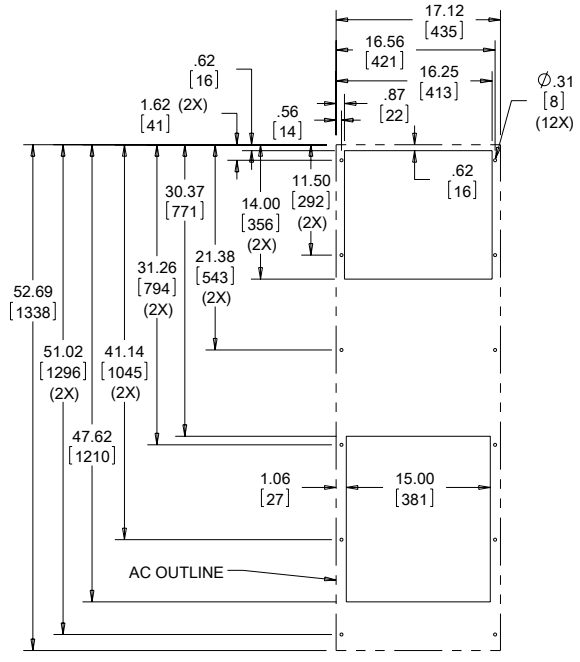
Performance Curves for G52 Models 12000 BTU/Hr. (3516 Watt)



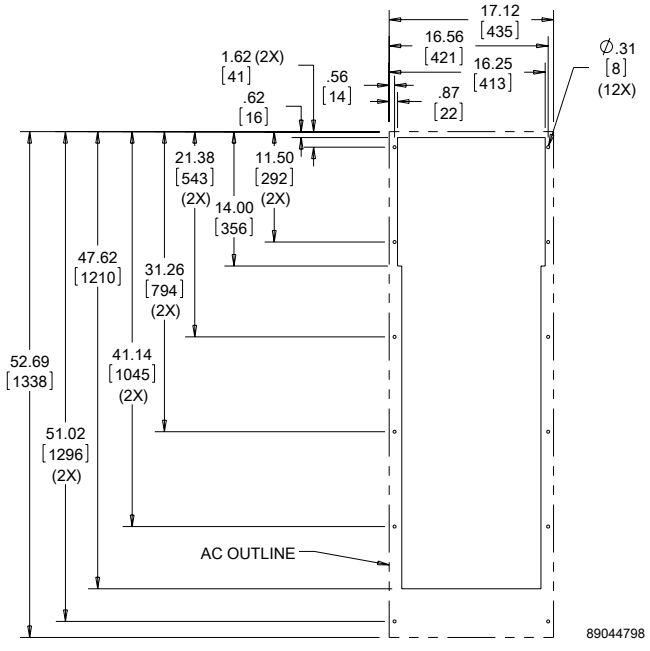


G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)





Cutout Dimensions (Standard)



Cutout Dimensions (G520846G150, G520846G151, G521246G150, G521246G151 only)

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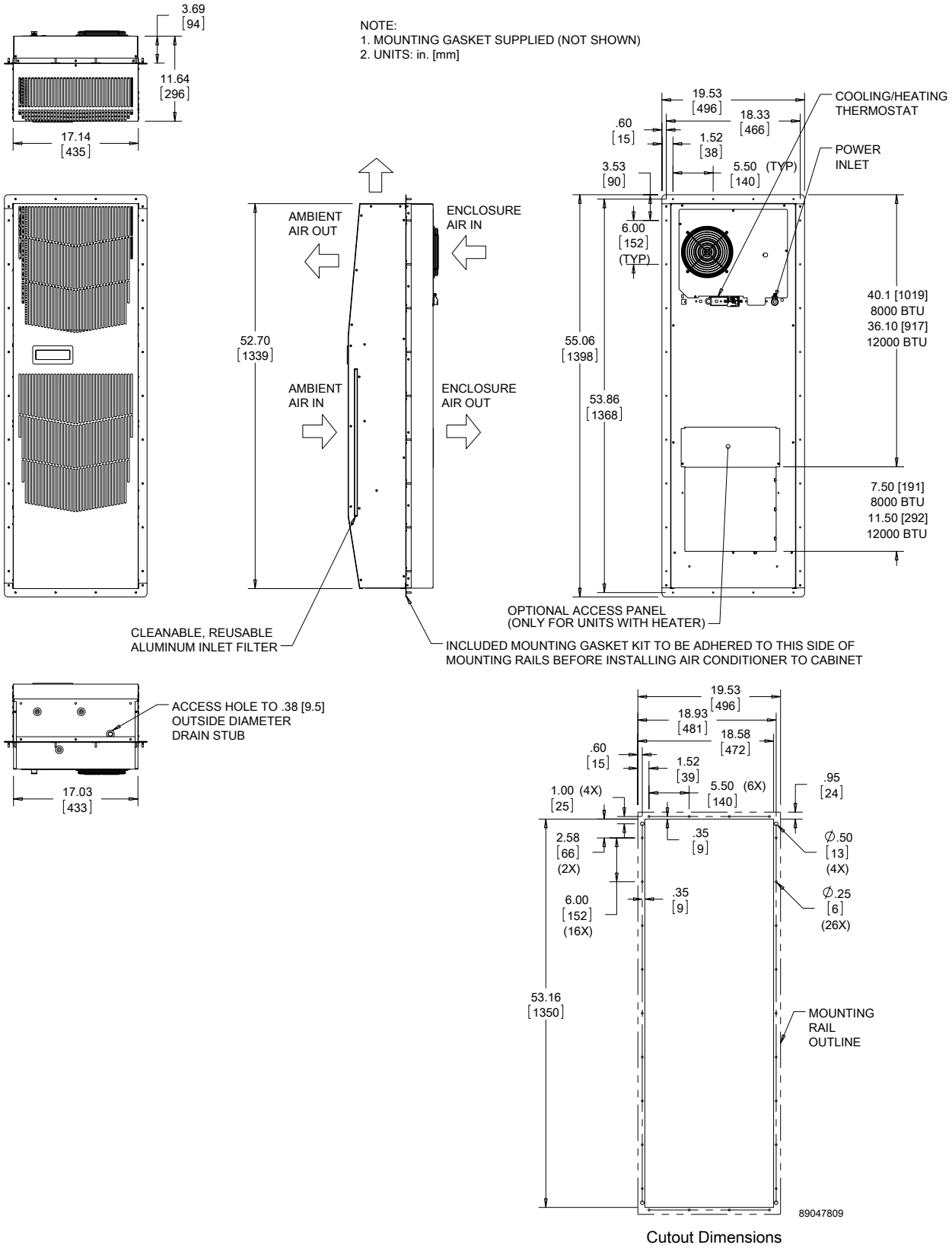
G52 Models 8000/12000 BTU/Hr. (2344/3516 Watt) with Partial Recess



Cutout Dimensions

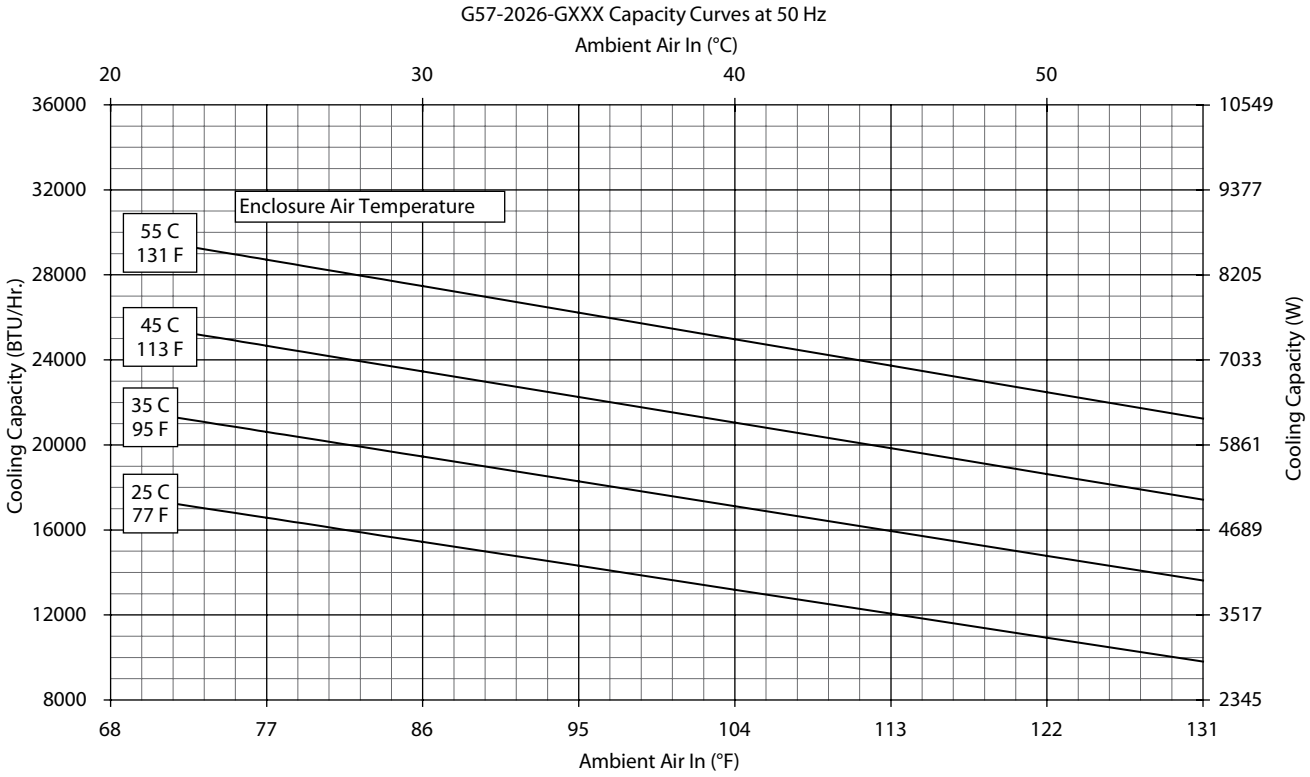
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

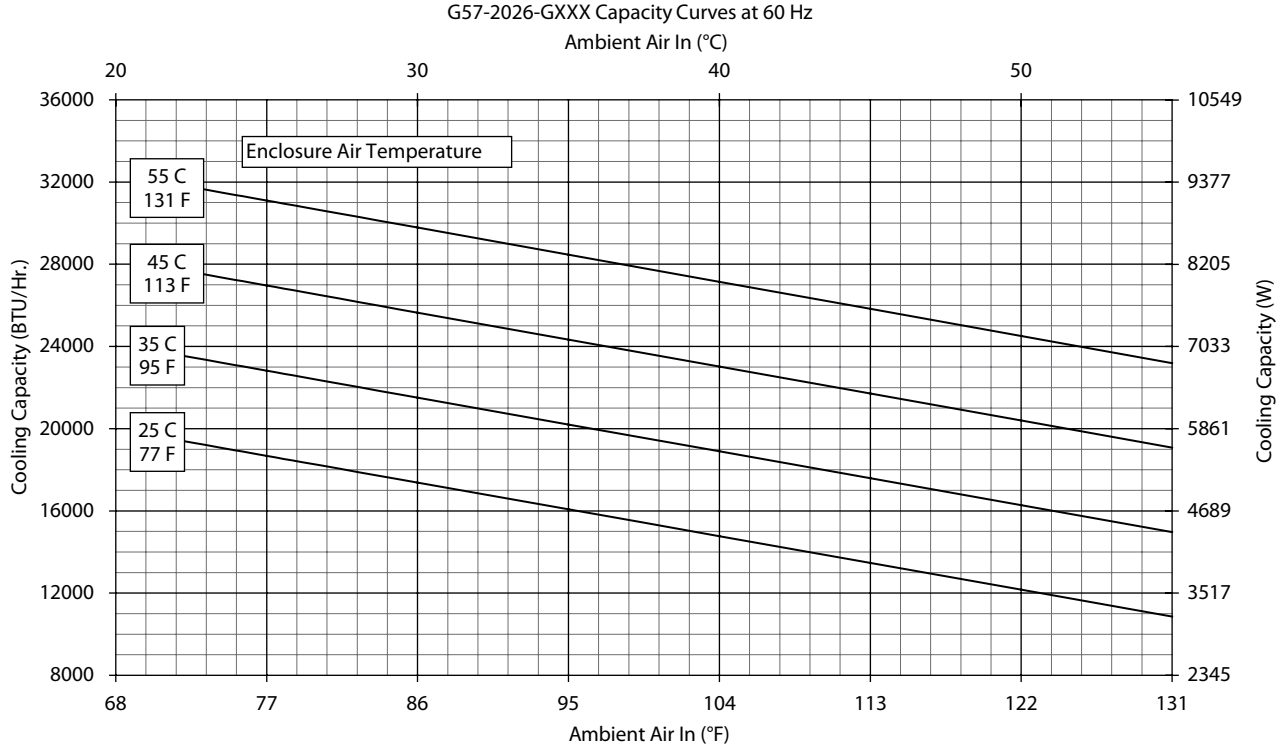
Performance Data **G57 Models 20000 BTU/Hr. (5861 Watt)**

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	

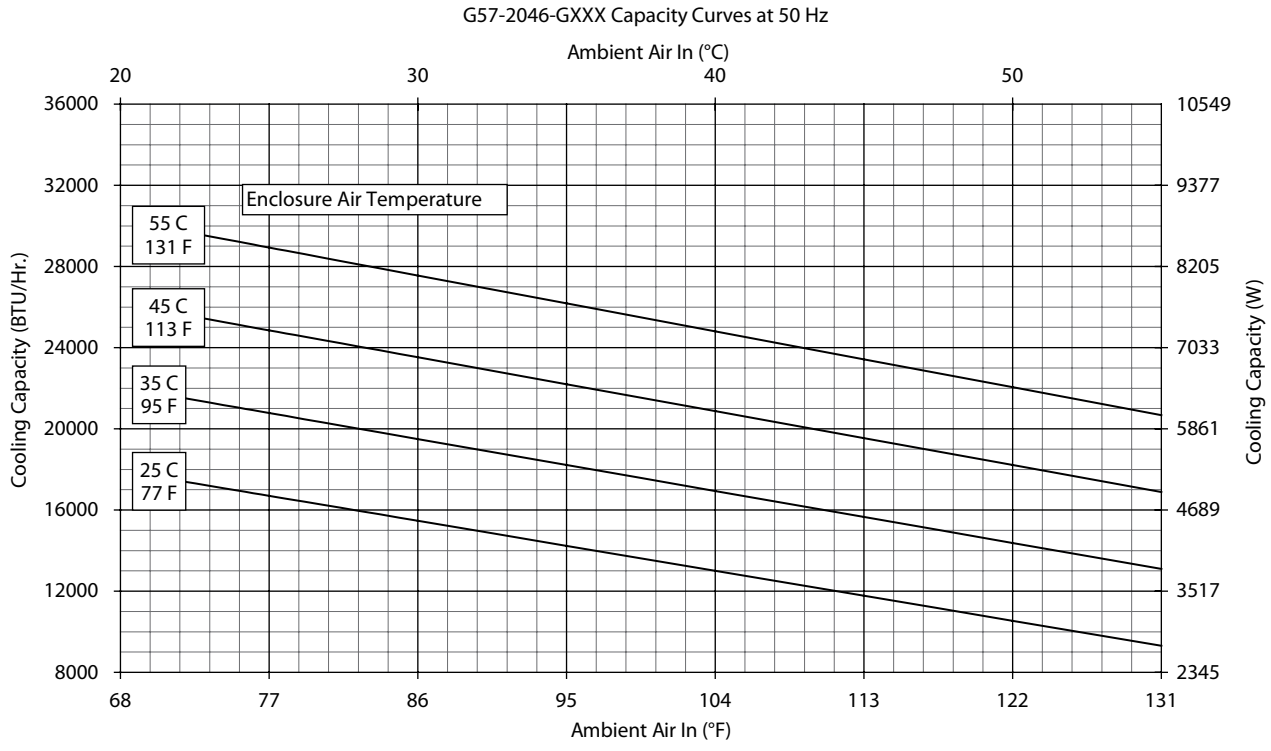
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

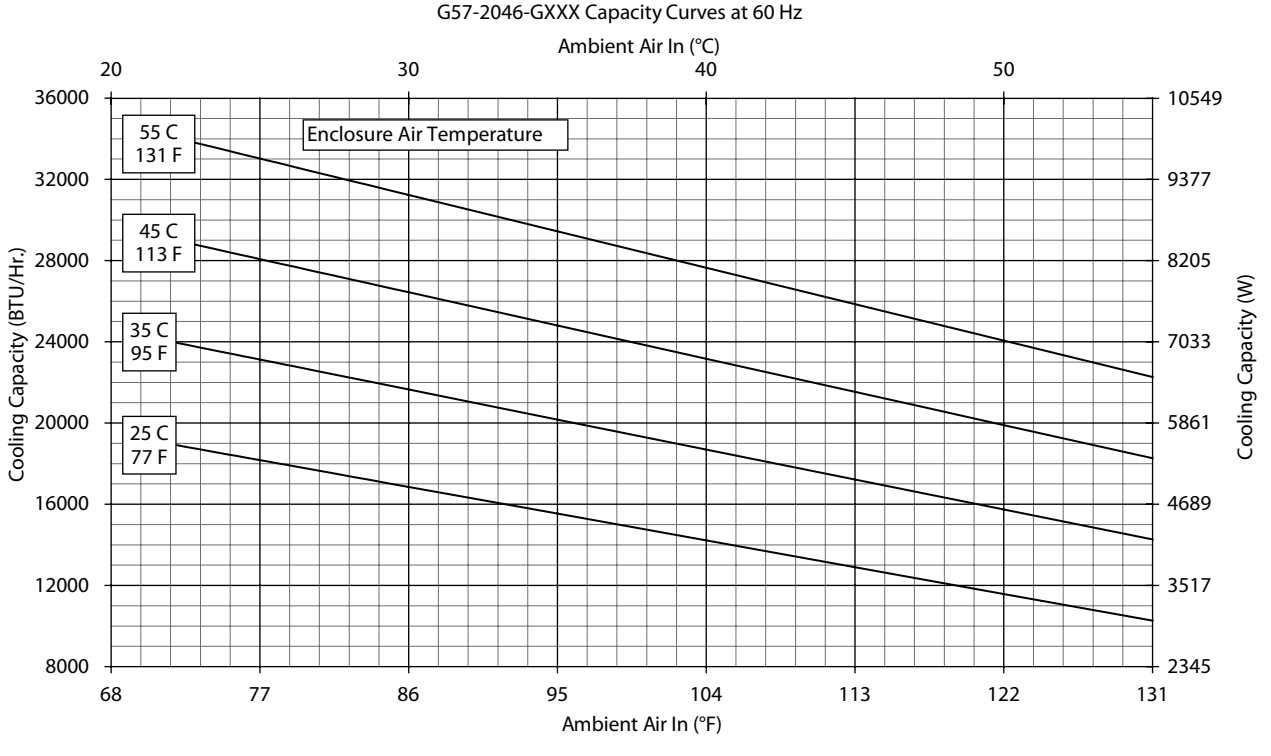
Performance Curves for G57 Models 20000 BTU/Hr.



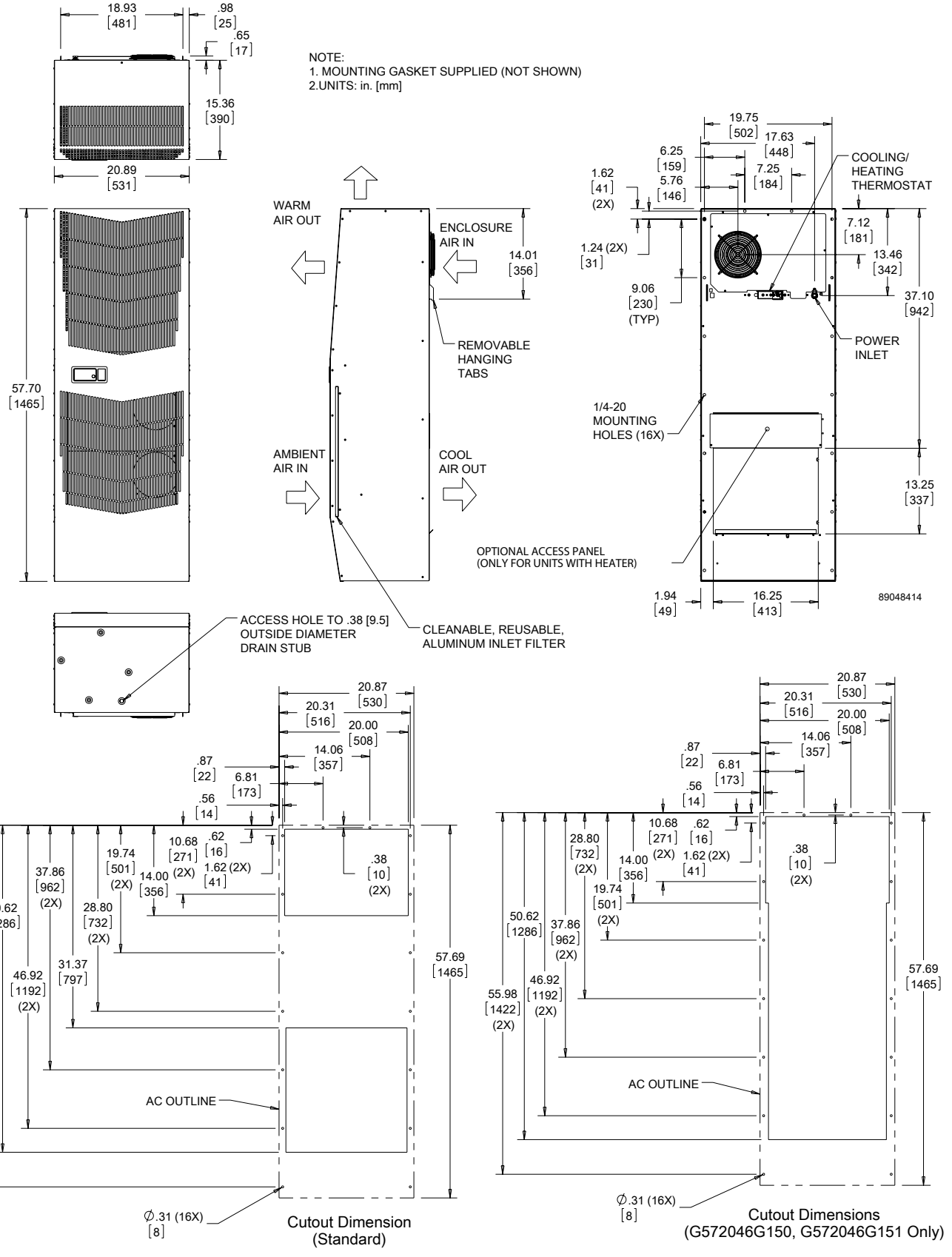


Performance Curves for G57 Models 20000 BTU/Hr.





G57 Models 20000 BTU/Hr. (5861 Watt)



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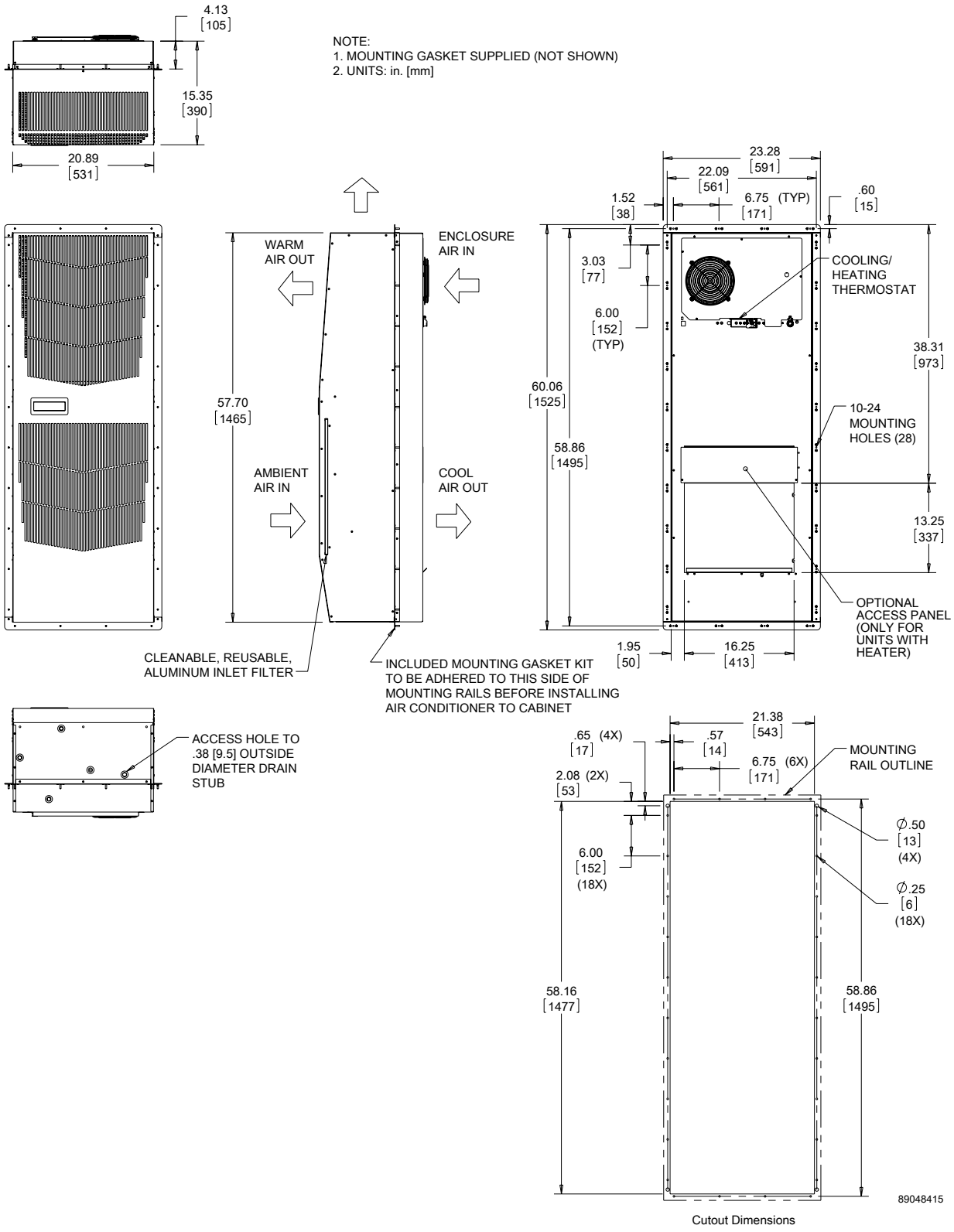
G57 Models 20000 BTU/Hr. (5861 Watt) With Partial Recess



Cutout Dimensions

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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

10

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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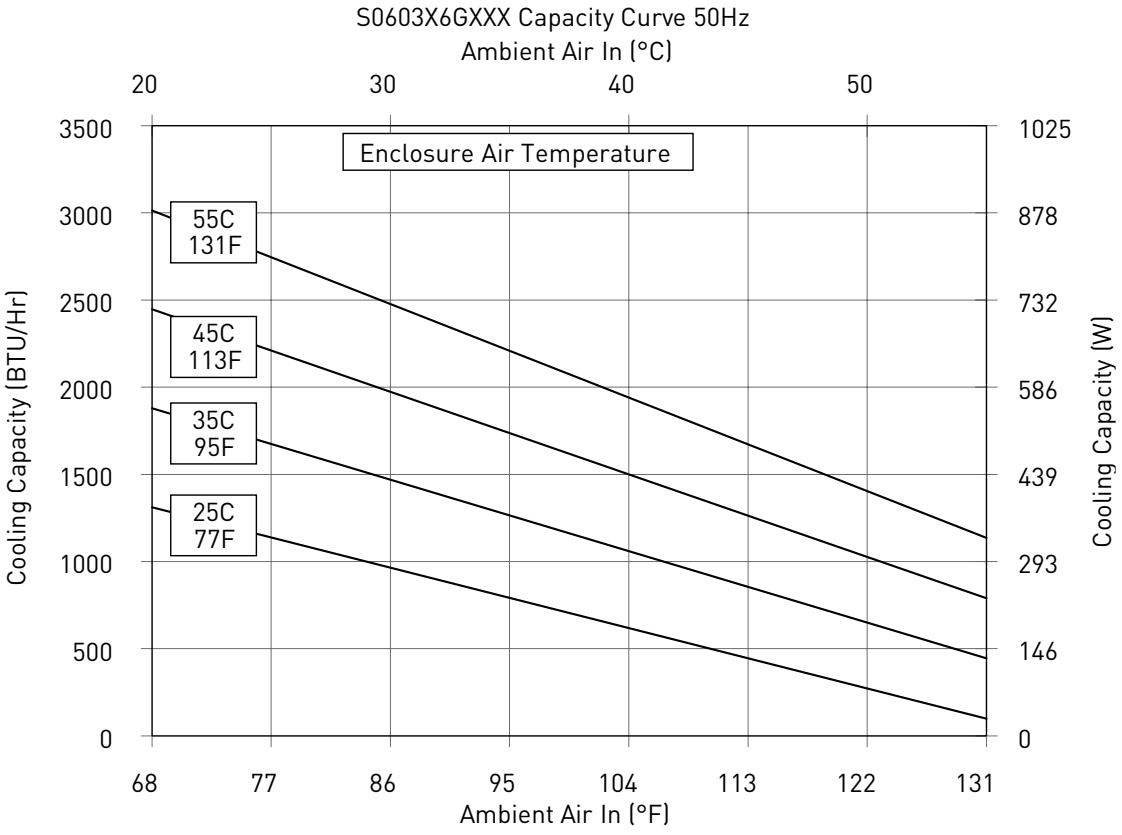
EtherNet/IP ODVA PI PROFIBUS • PROFINET

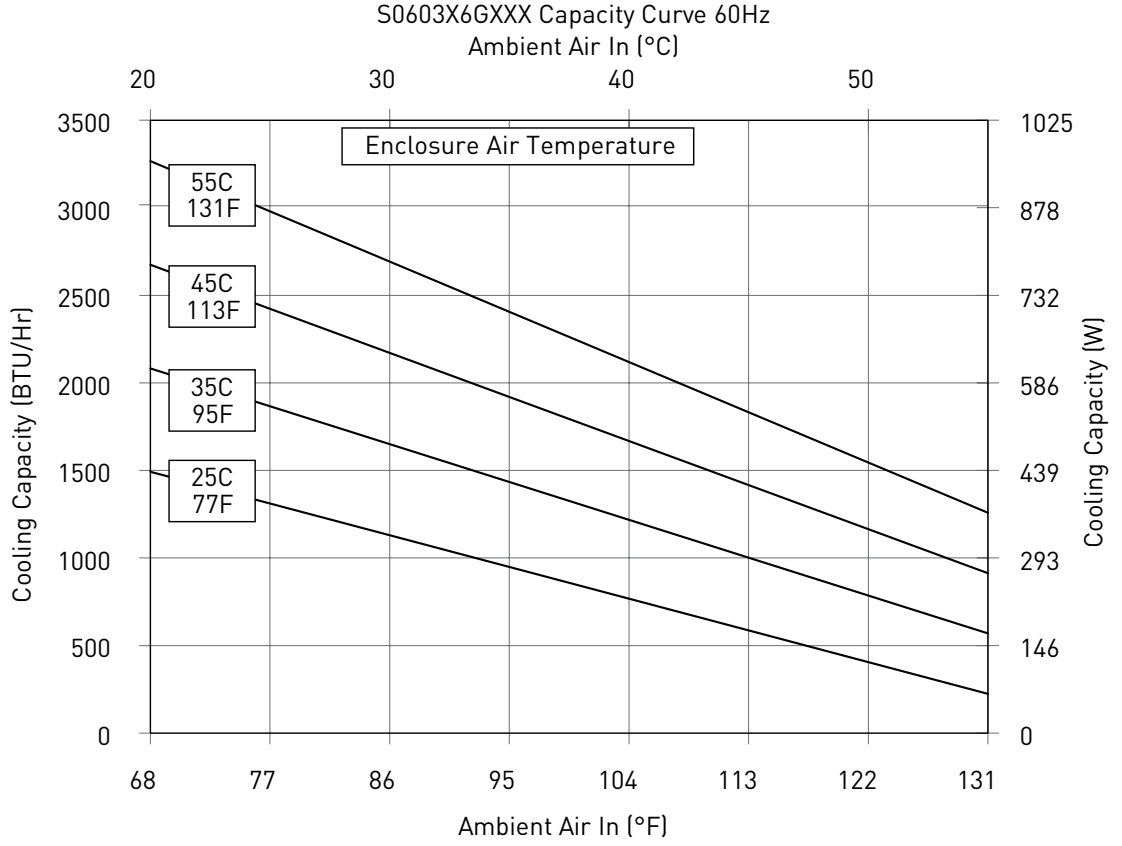
Performance Data **S06 1000/1700 BTU/Hr. (300/500 Watt)**

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

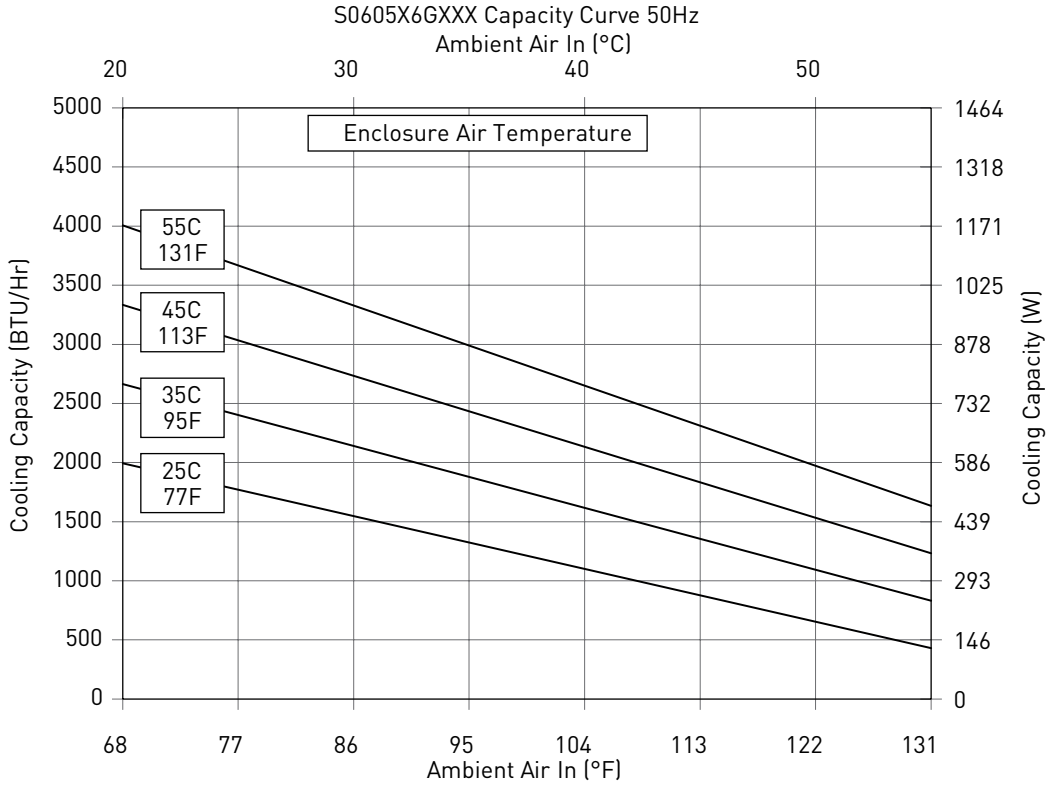
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

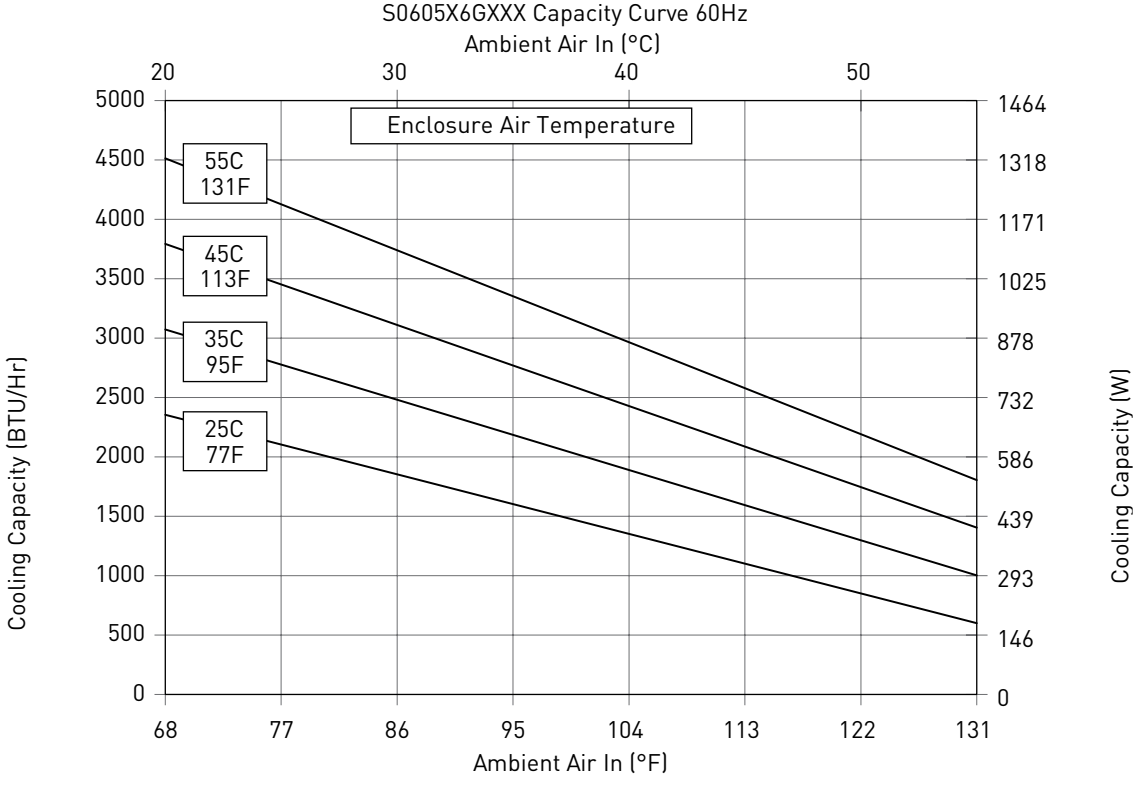
Performance Curves for S06 Models 1000 BTU/Hr. (300 Watt)



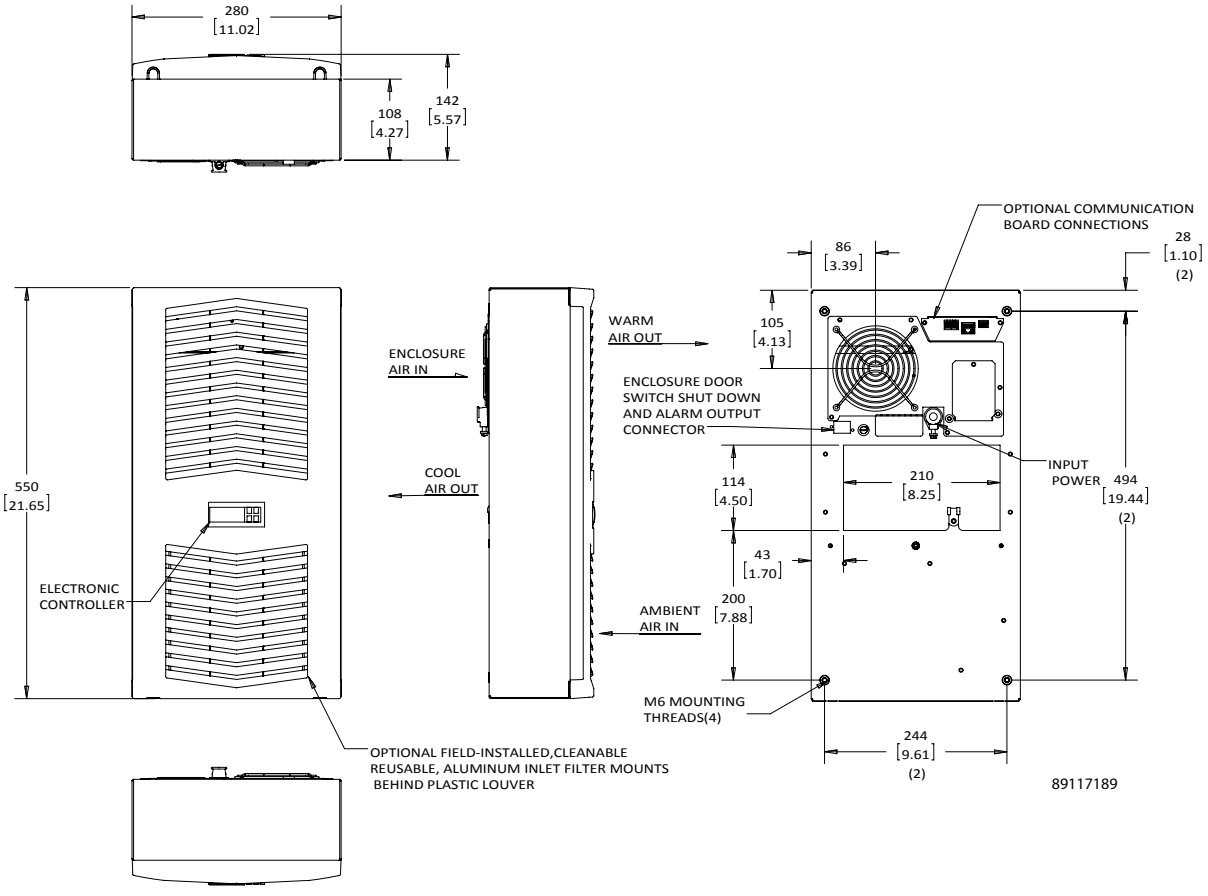


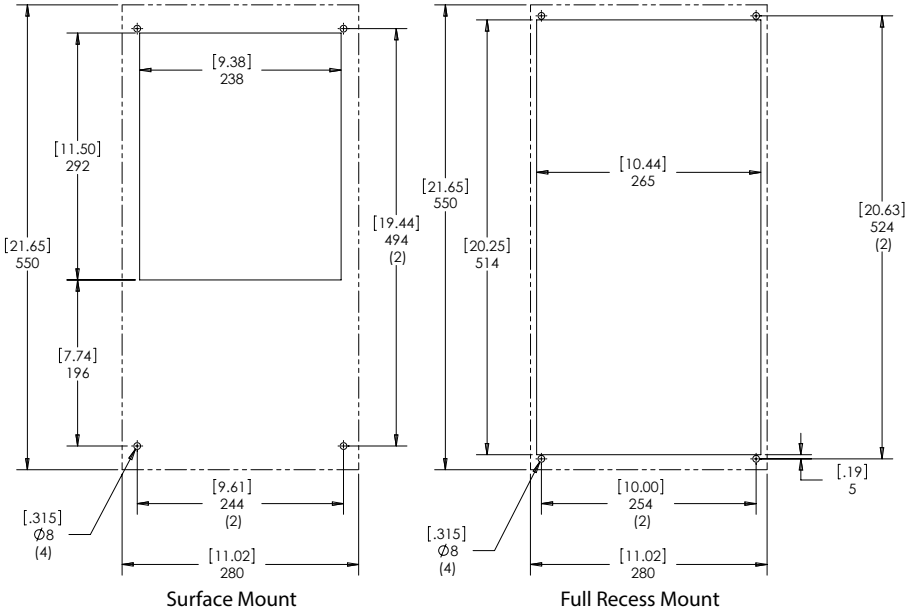
Performance Curves for S06 Models 1700 BTU/Hr. (500 Watt)





S06 Models 1000 BTU/Hr. (300 Watt)





Surface Mount Full Recess Mount

Cutout Dimensions

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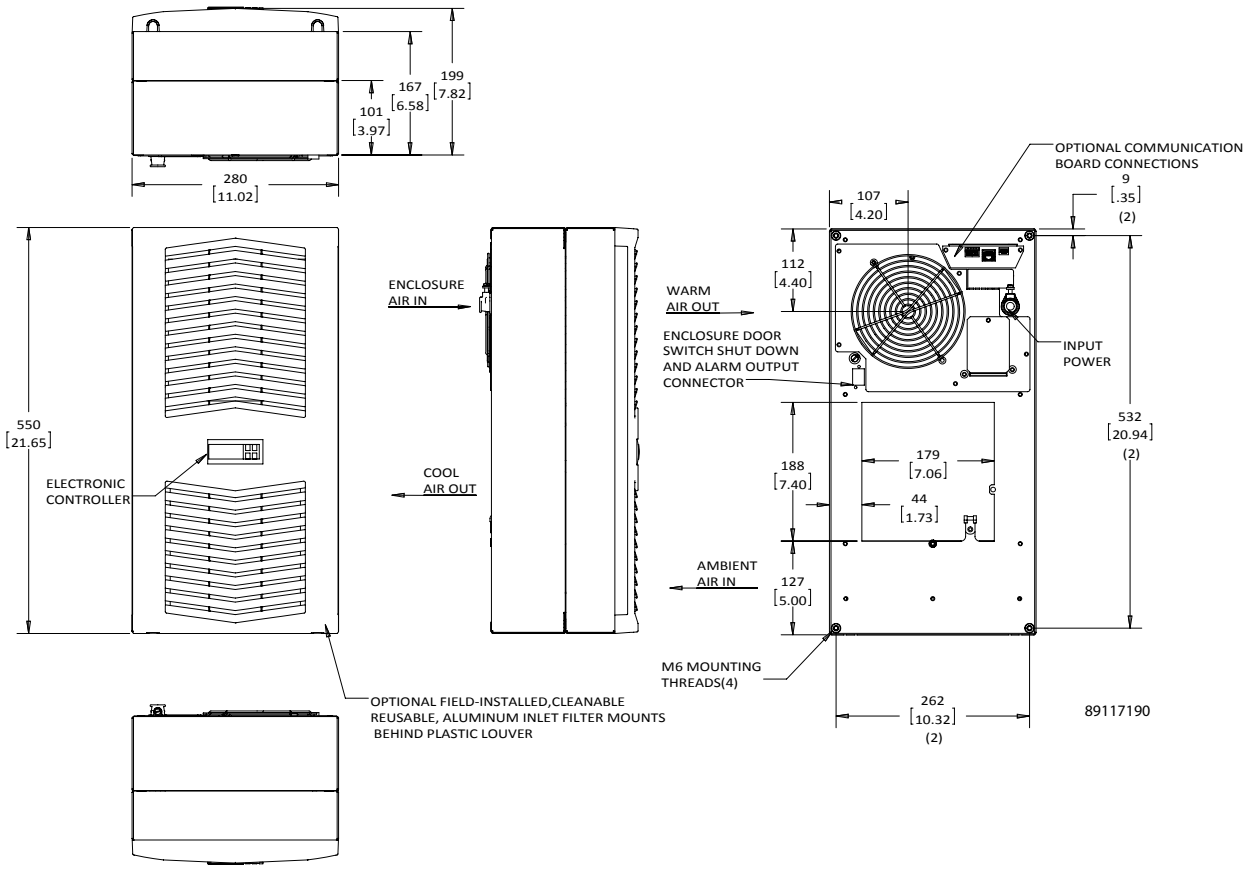
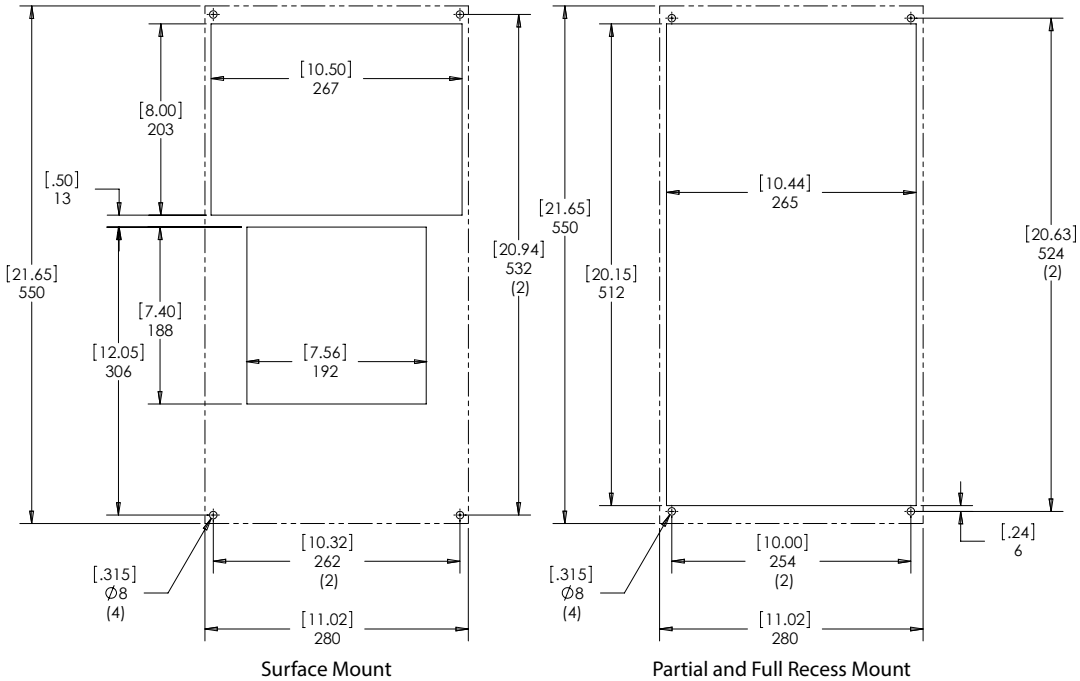
S06 Models 1700 BTU/Hr. (500 Watt)





Surface Mount

Partial and Full Recess Mount

Cutout Dimensions

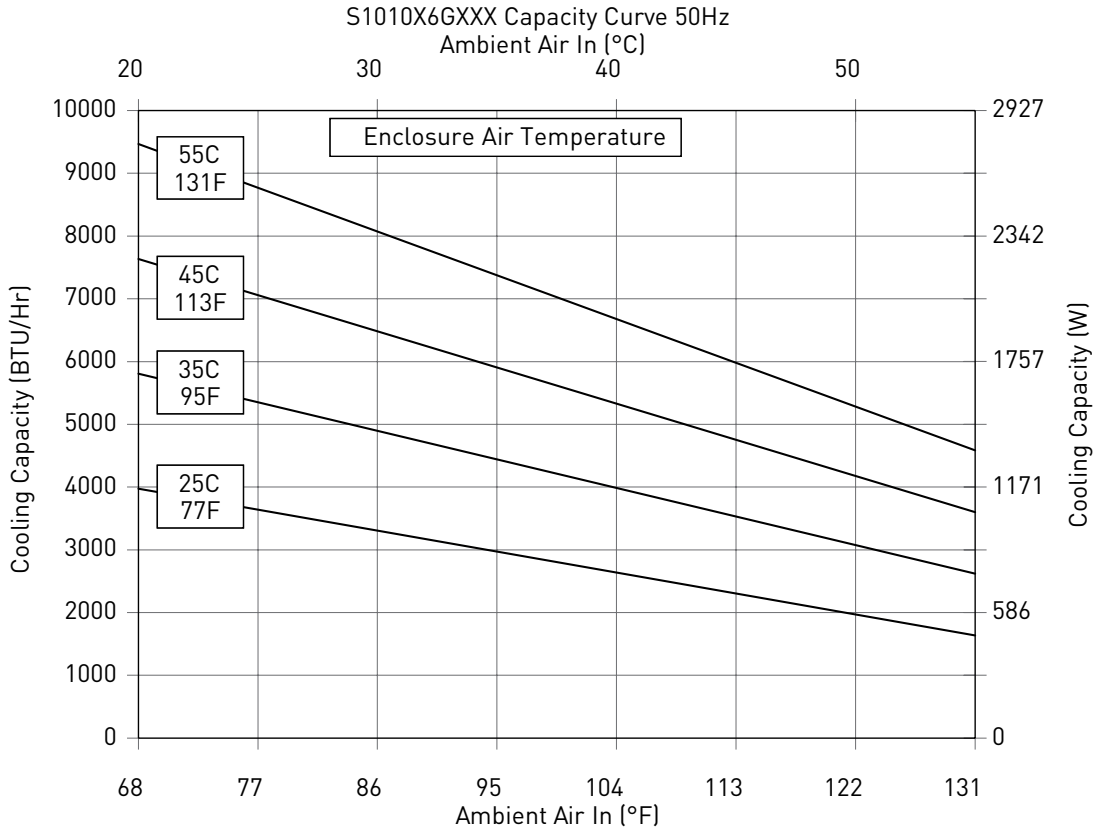
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

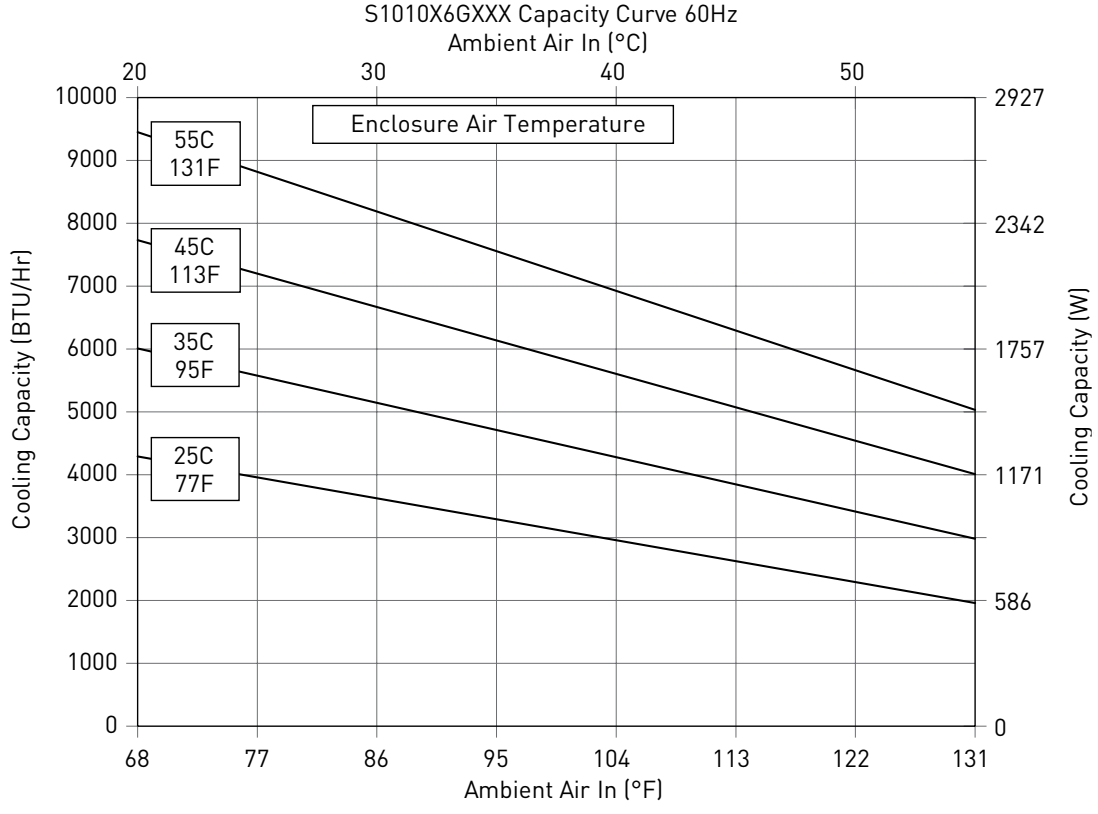
Performance Data **S10 3400/5000 BTU/Hr. (1000/1500 Watt)**

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

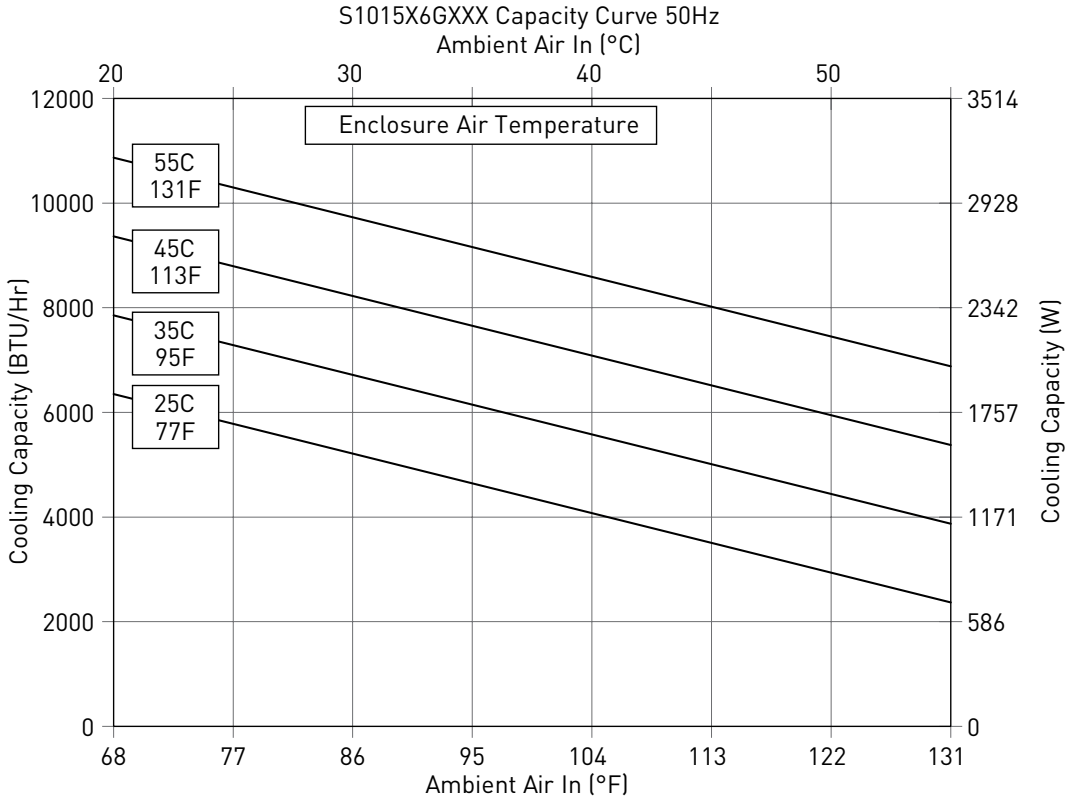
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

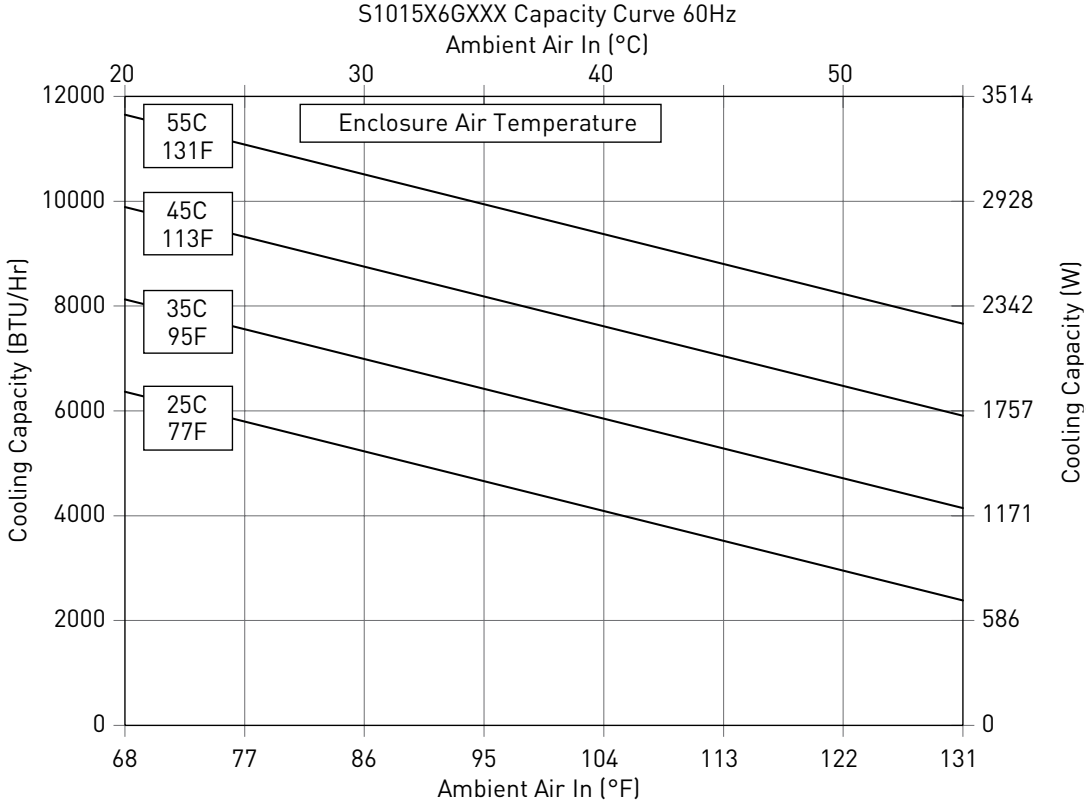
Performance Curves for S10 Models 3400 BTU/Hr. (1000 Watt)



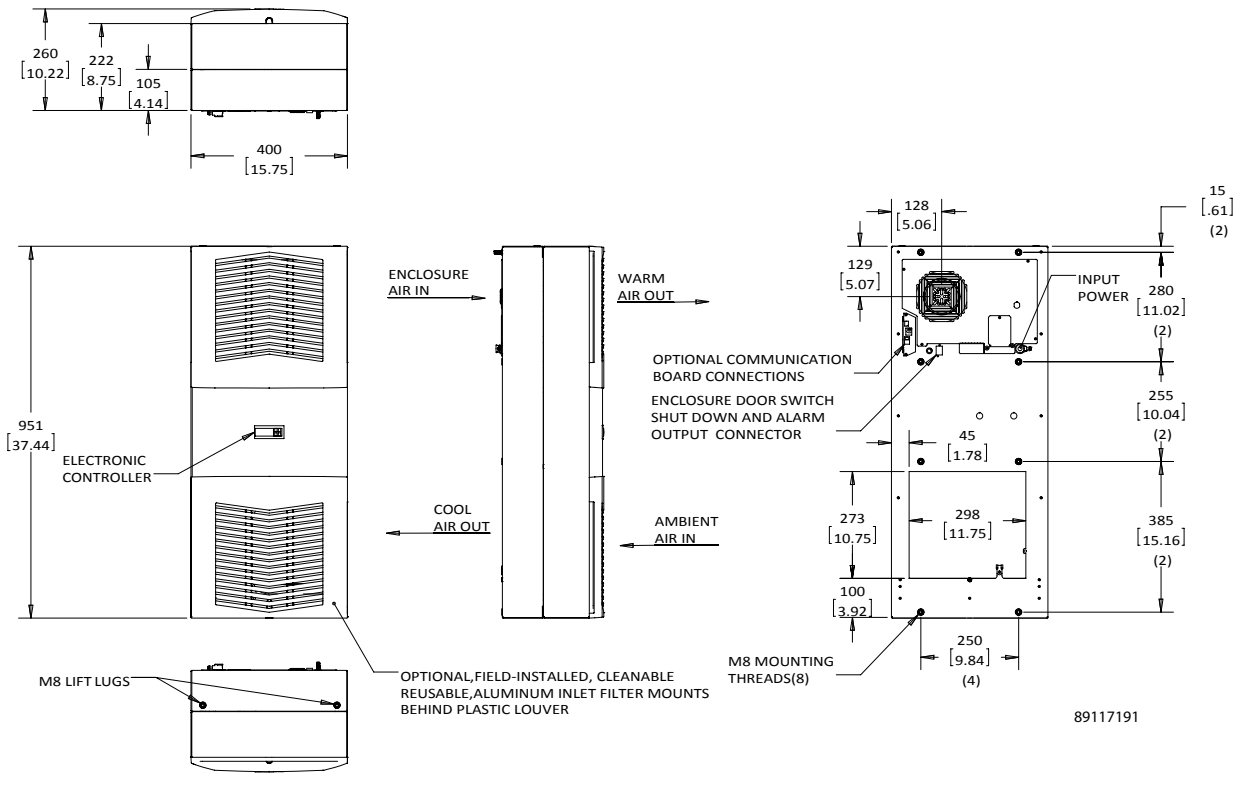


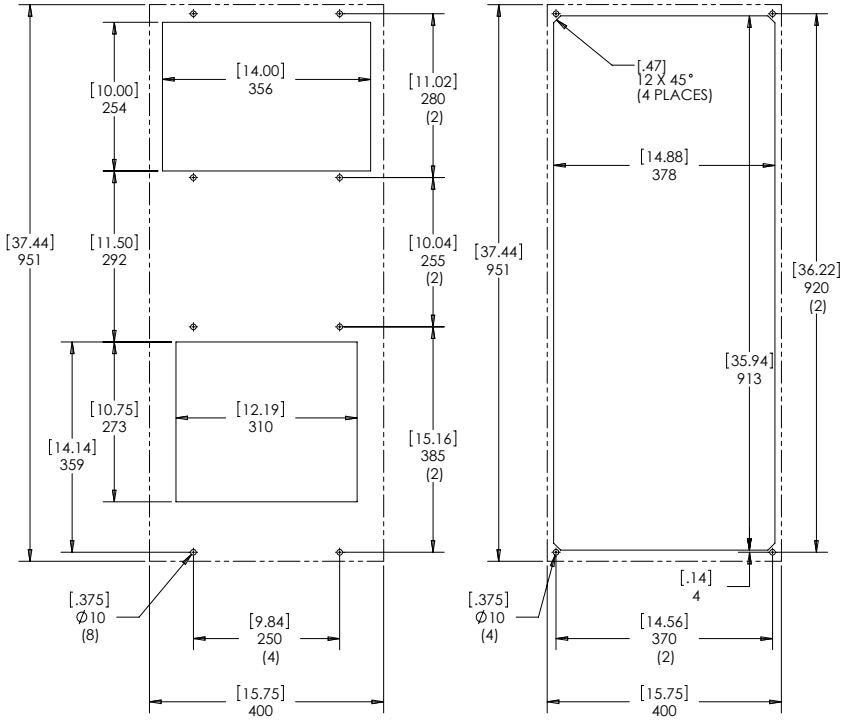
Performance Curves for S10 Models 5000 BTU/Hr. (1500 Watt)





S10 Models 3400/5000 BTU/Hr. (1000/1500 Watt)





Surface Mount | Partial and Full Recess Mount

Cutout Dimensions

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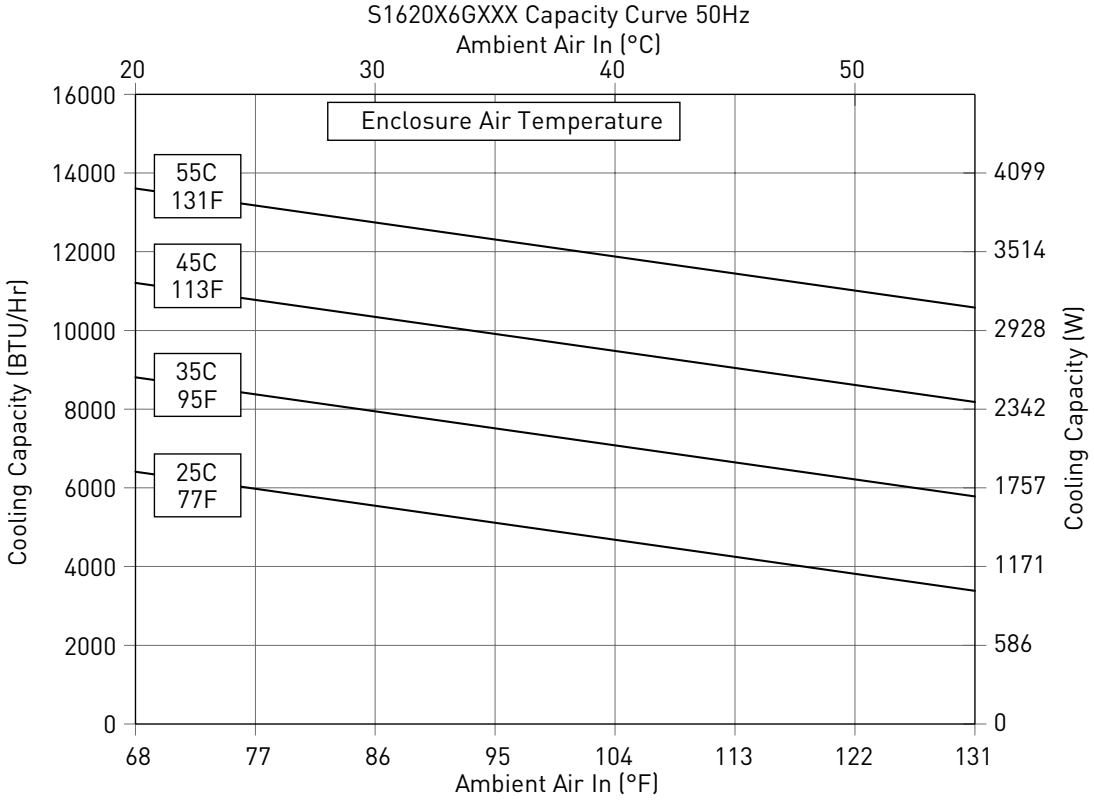
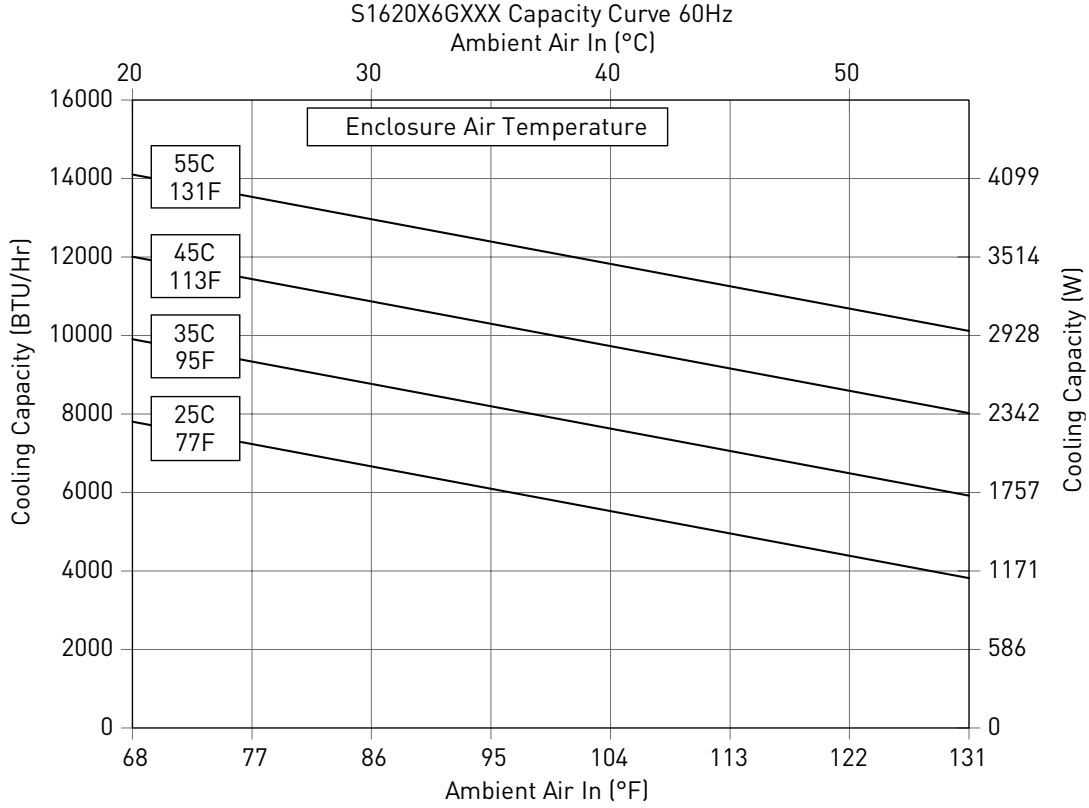
Performance Data **S16 6800/8500/13500 BTU/Hr. (2000/2500/4000 Watt)**

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

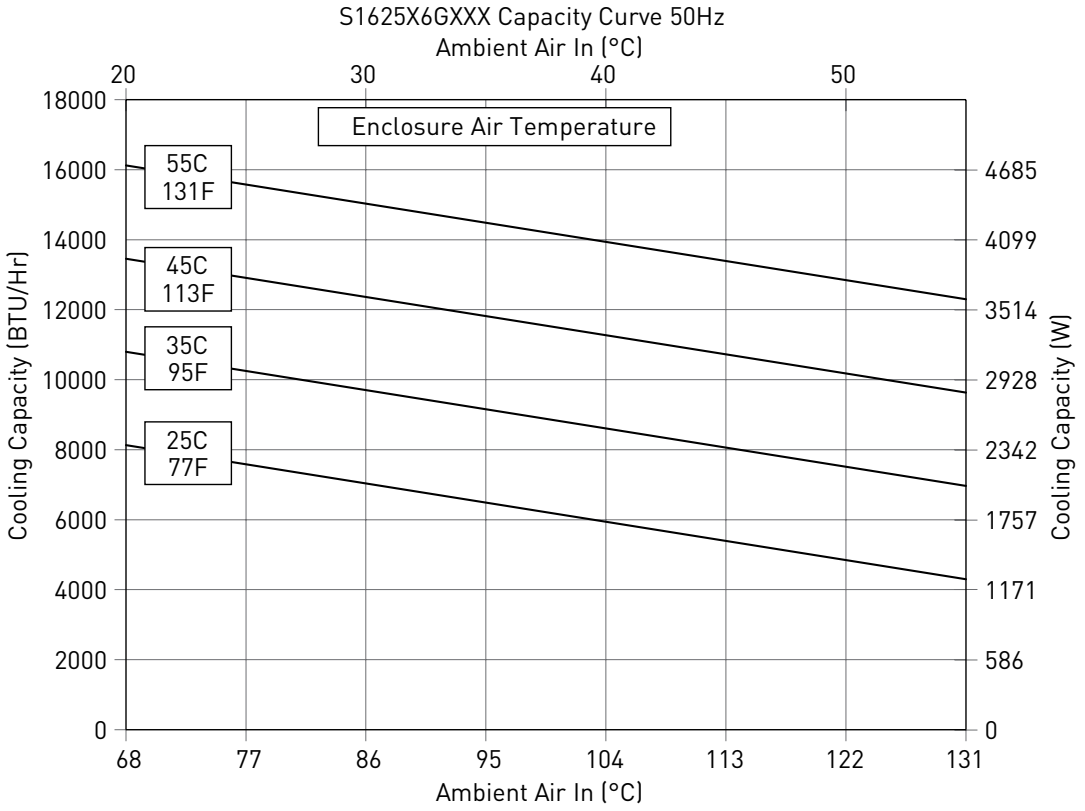
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

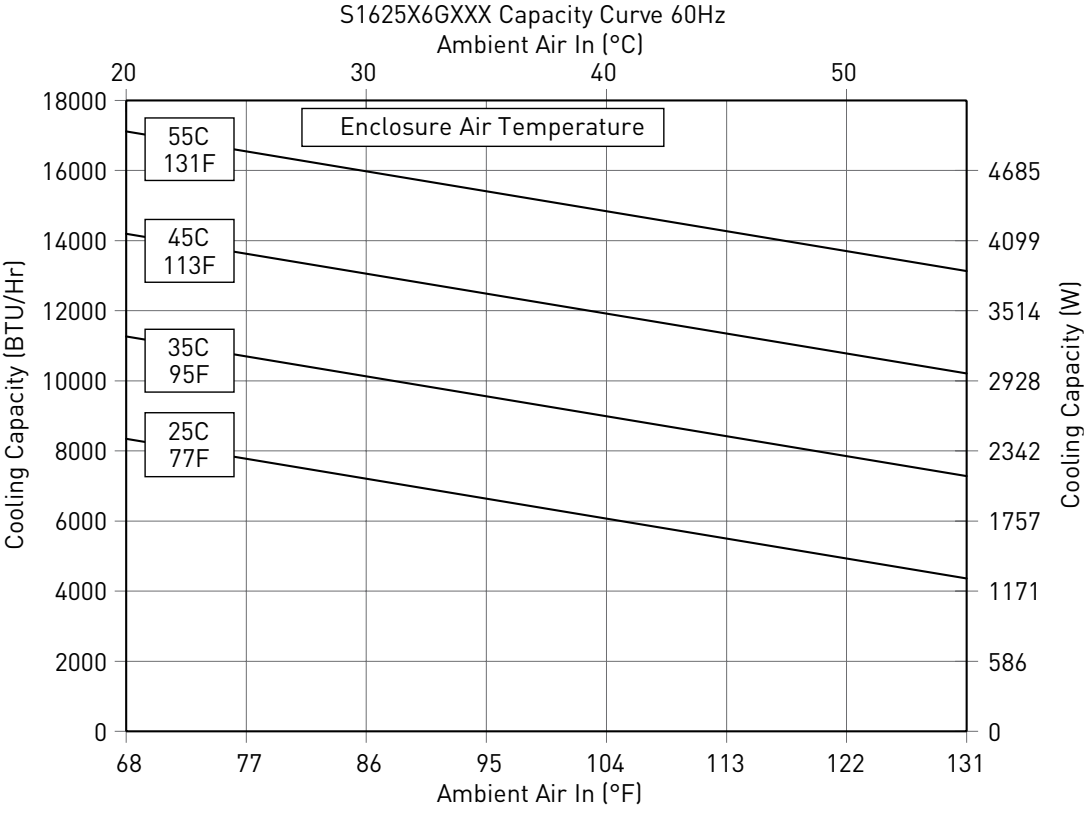
Performance Curves for S16 Models 6800 BTU/Hr. (2000 Watt)



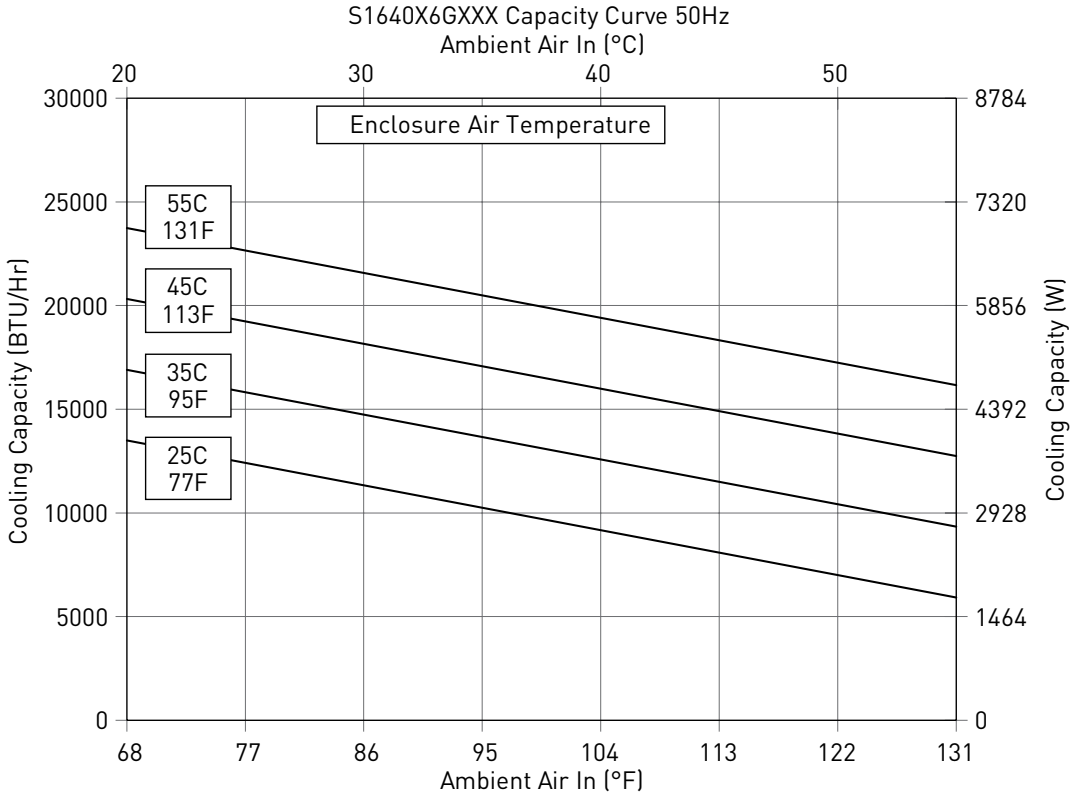


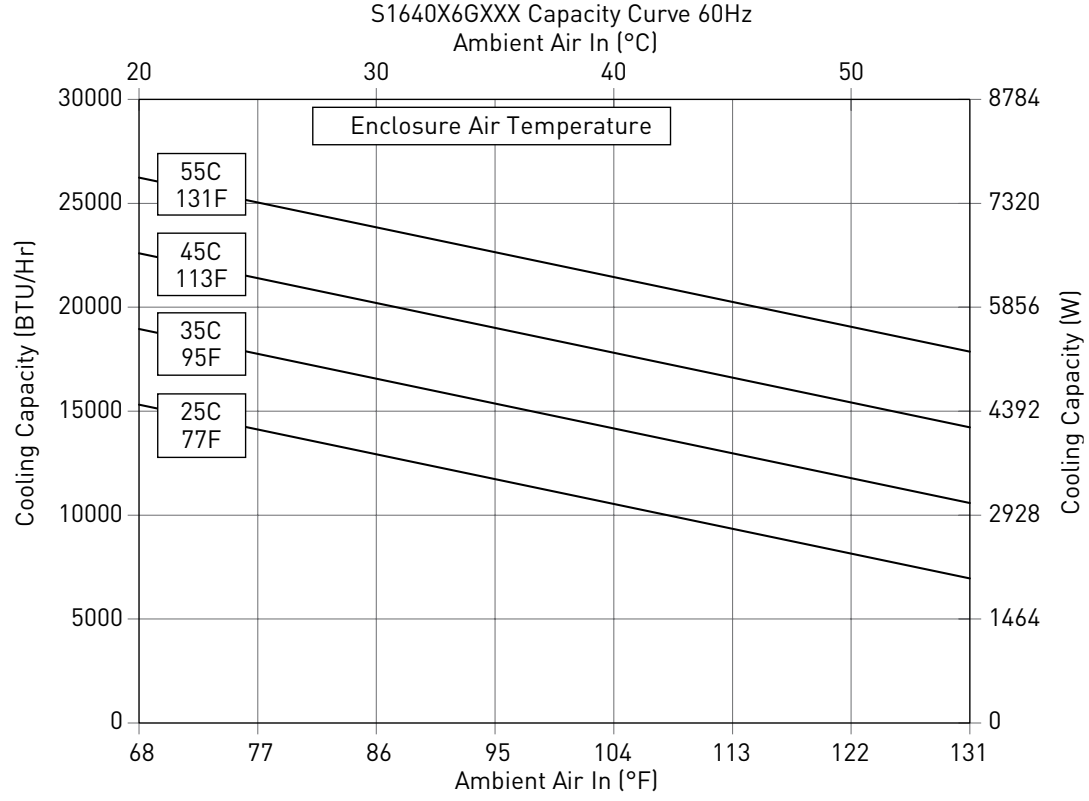
Performance Curves for S16 Models 8500 BTU/Hr. (2500 Watt)



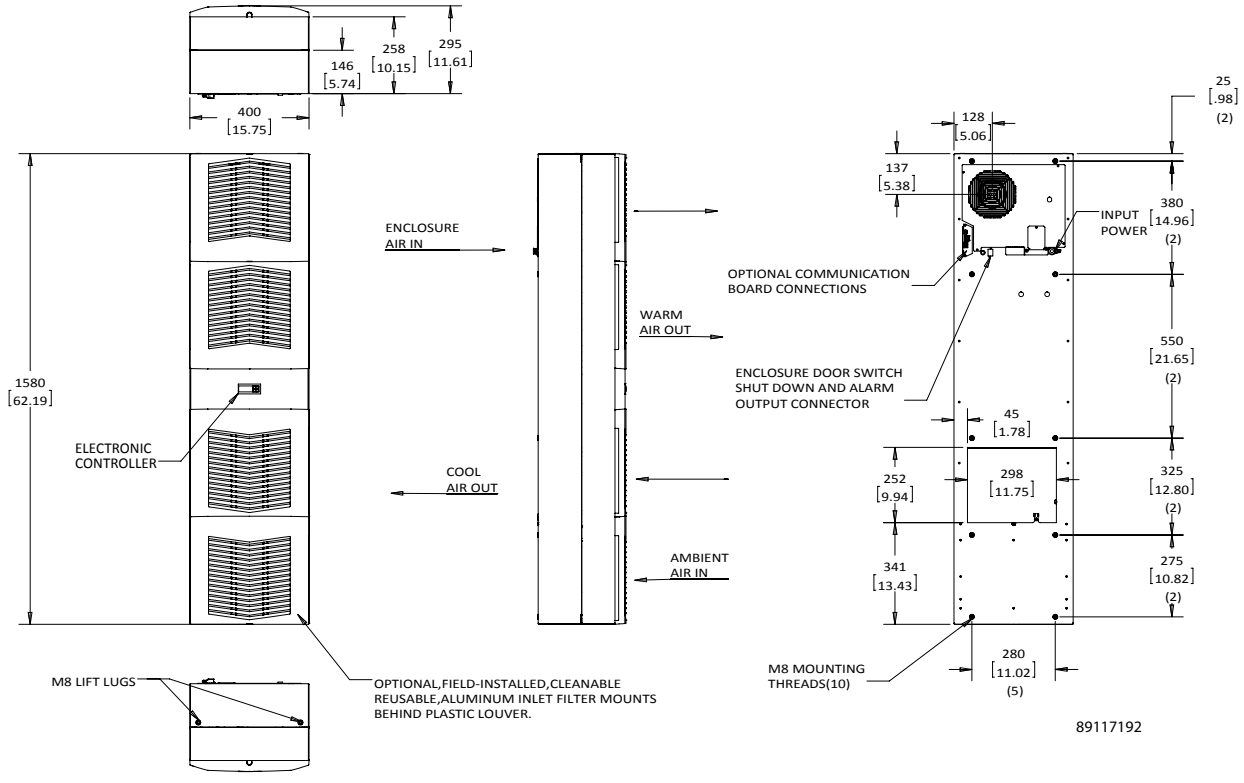


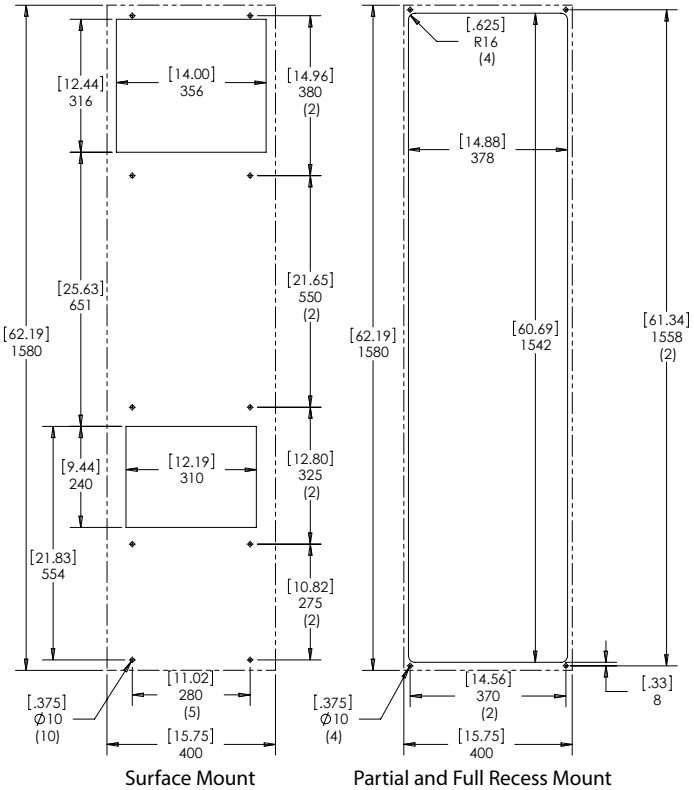
Performance Curves for S16 Models 13500 BTU/Hr. (4000 Watt)





S16 Models 6800/8500 BTU/Hr. (2000/2500 Watt)



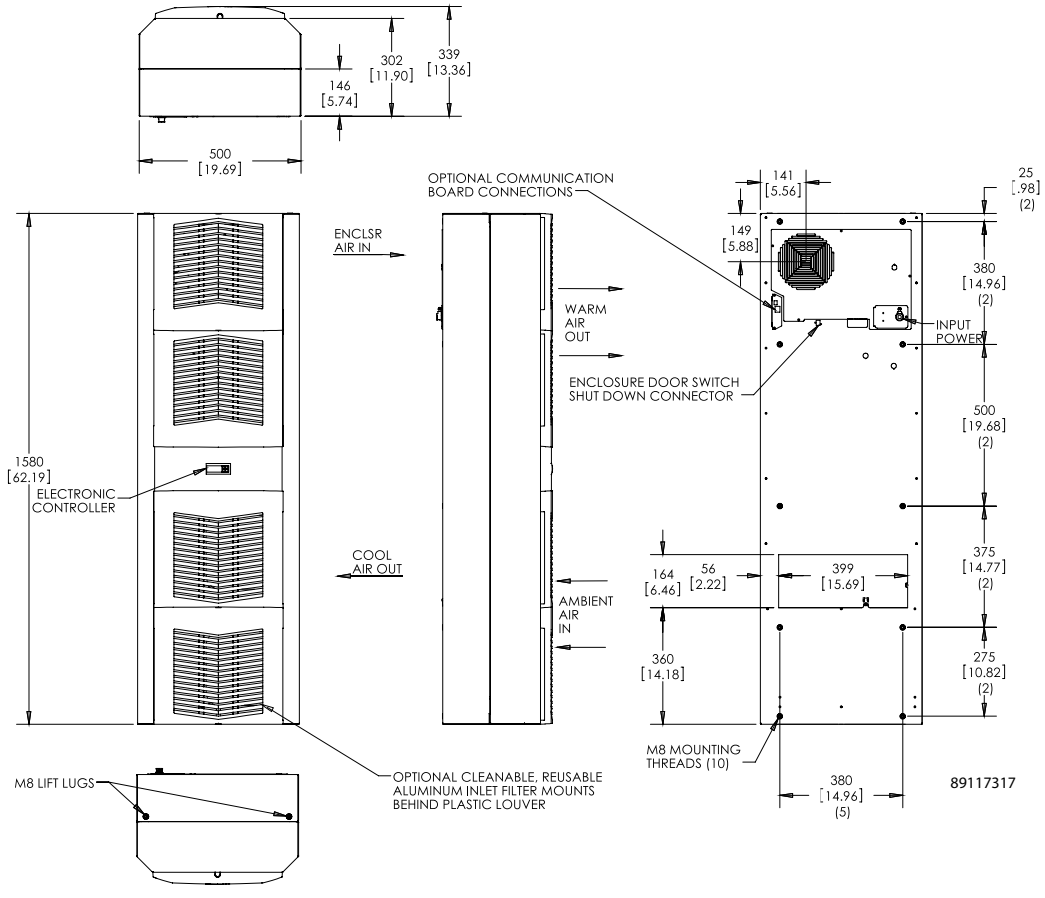


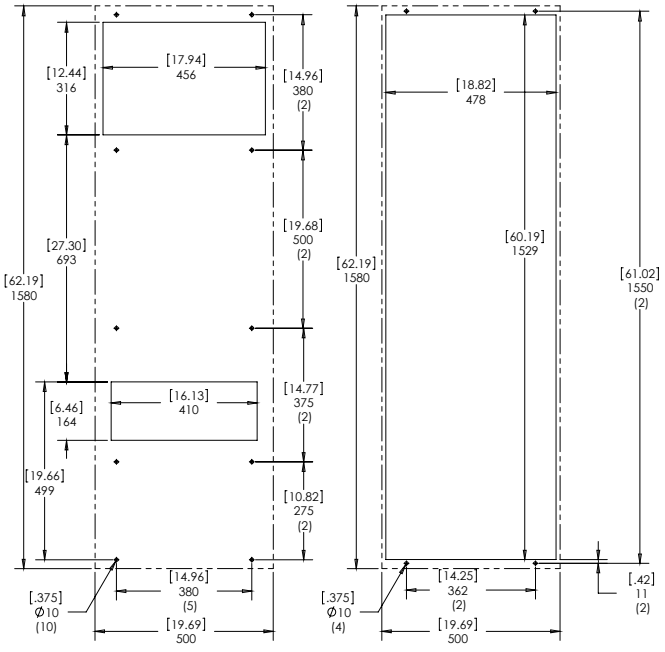
Surface Mount Partial and Full Recess Mount

Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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

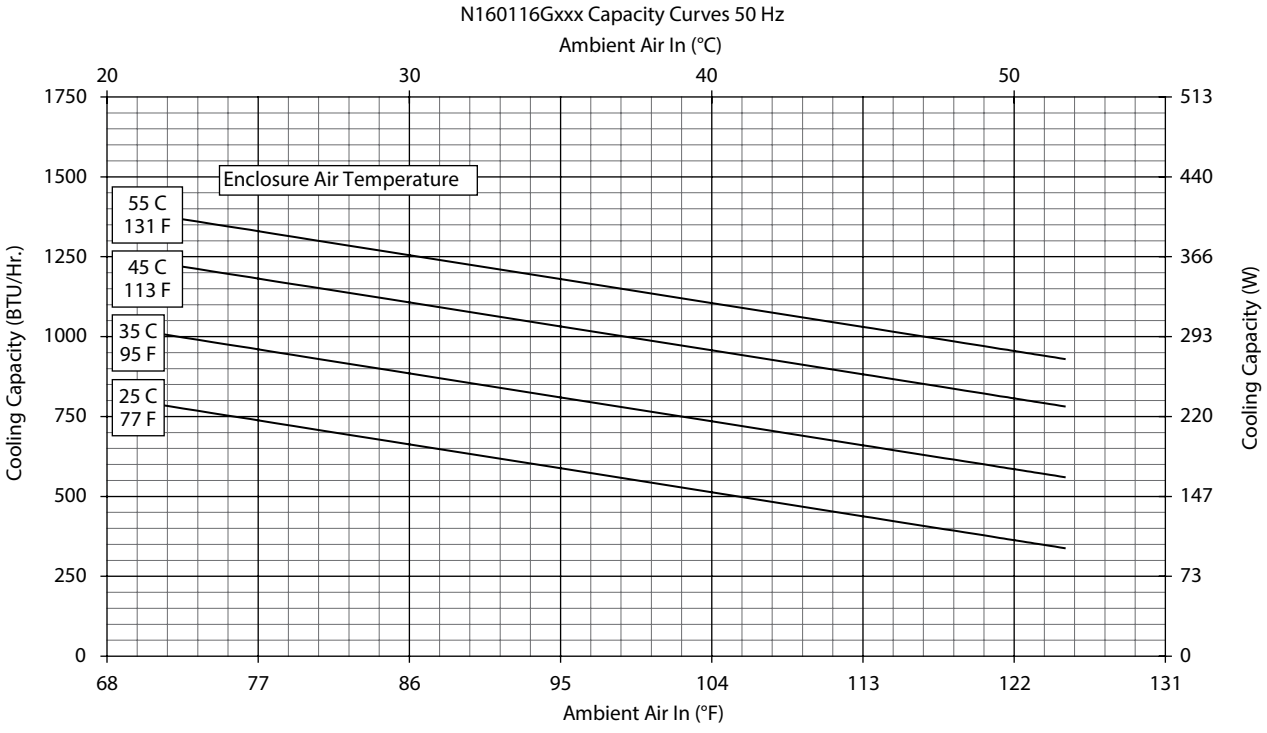
Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

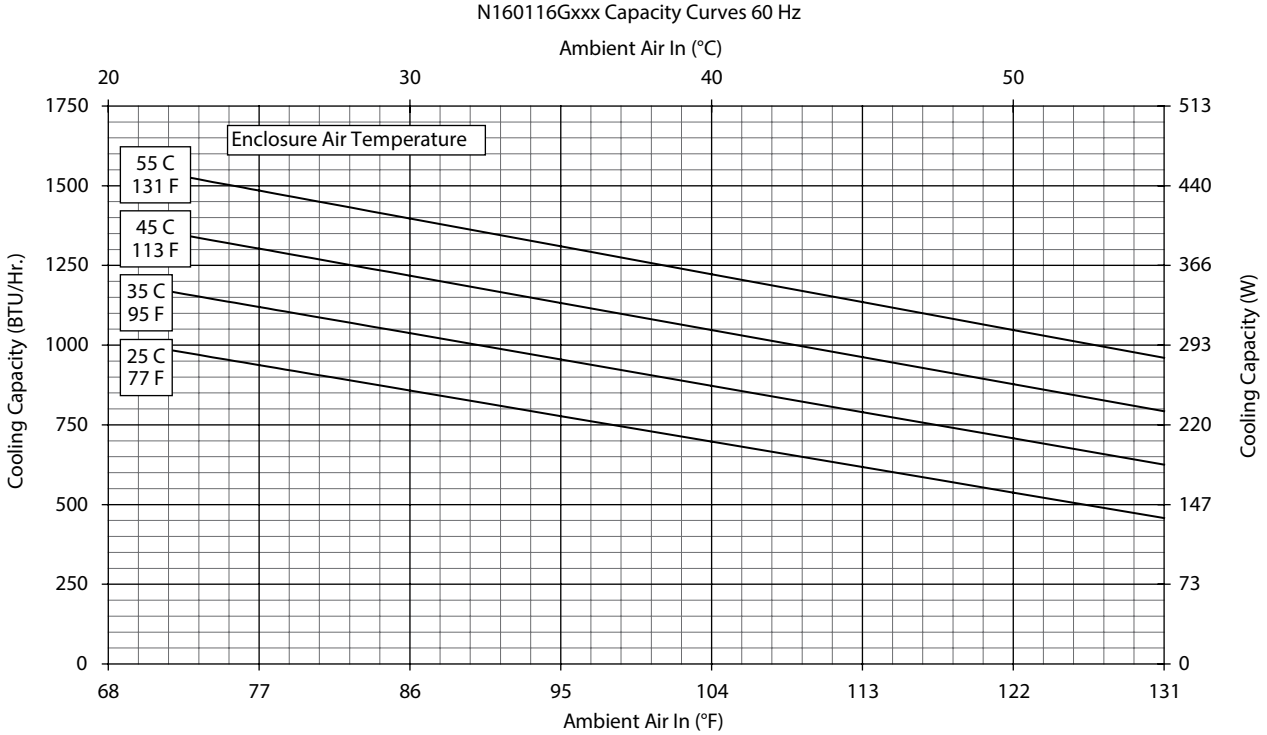
Performance Data **N16 800 BTU/Hr. (234 Watt) Models**

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	

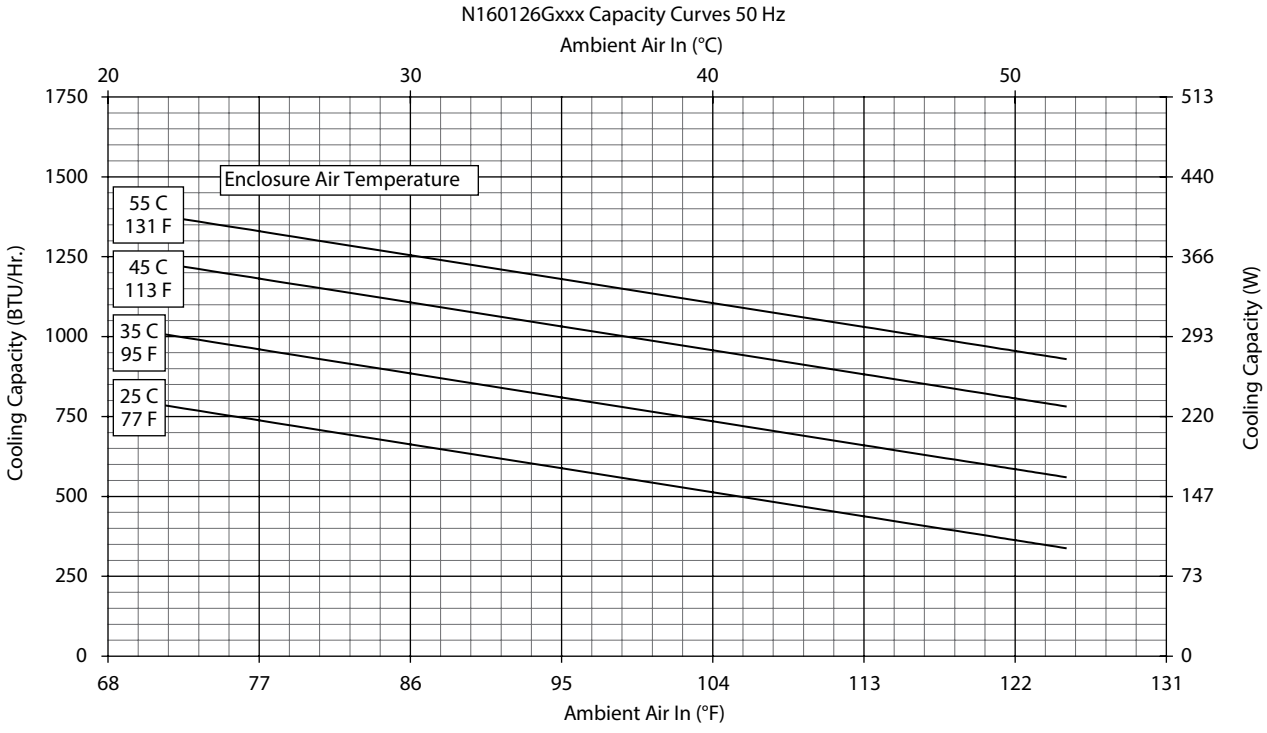
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

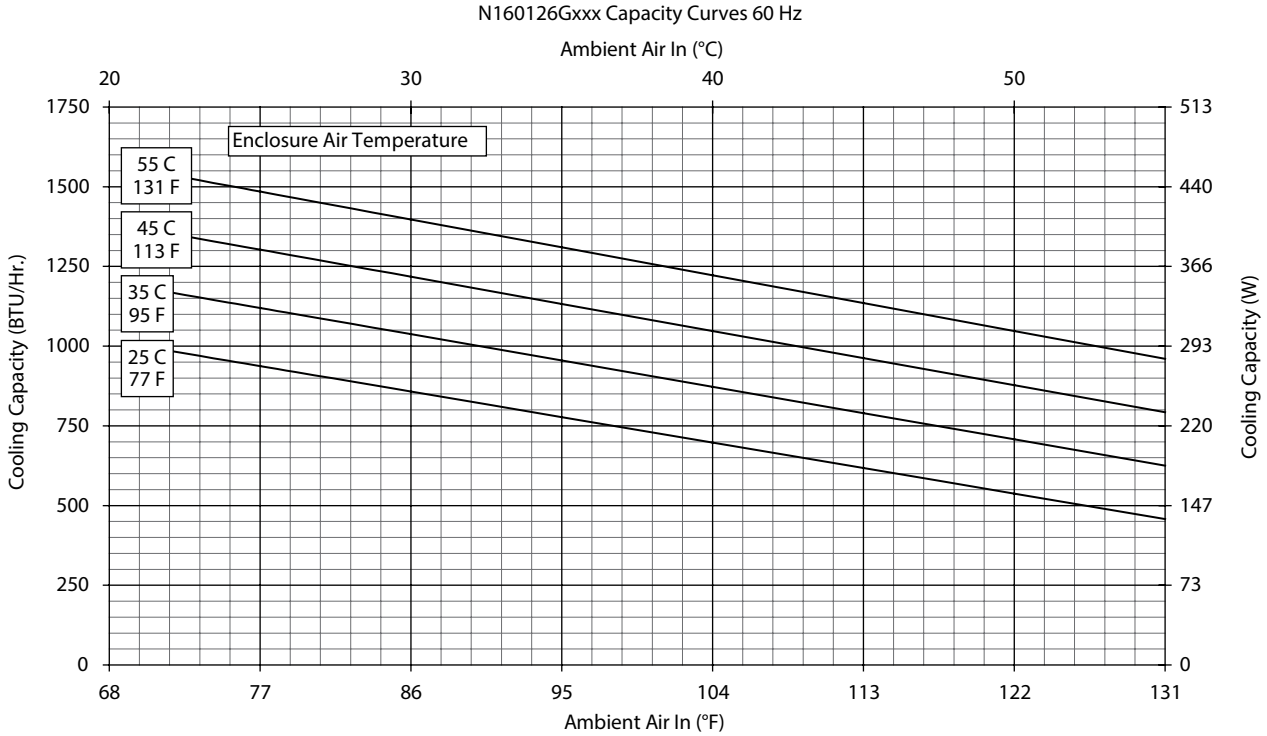
Performance Curves for N16 Models 800 BTU/Hr. (234 Watt)



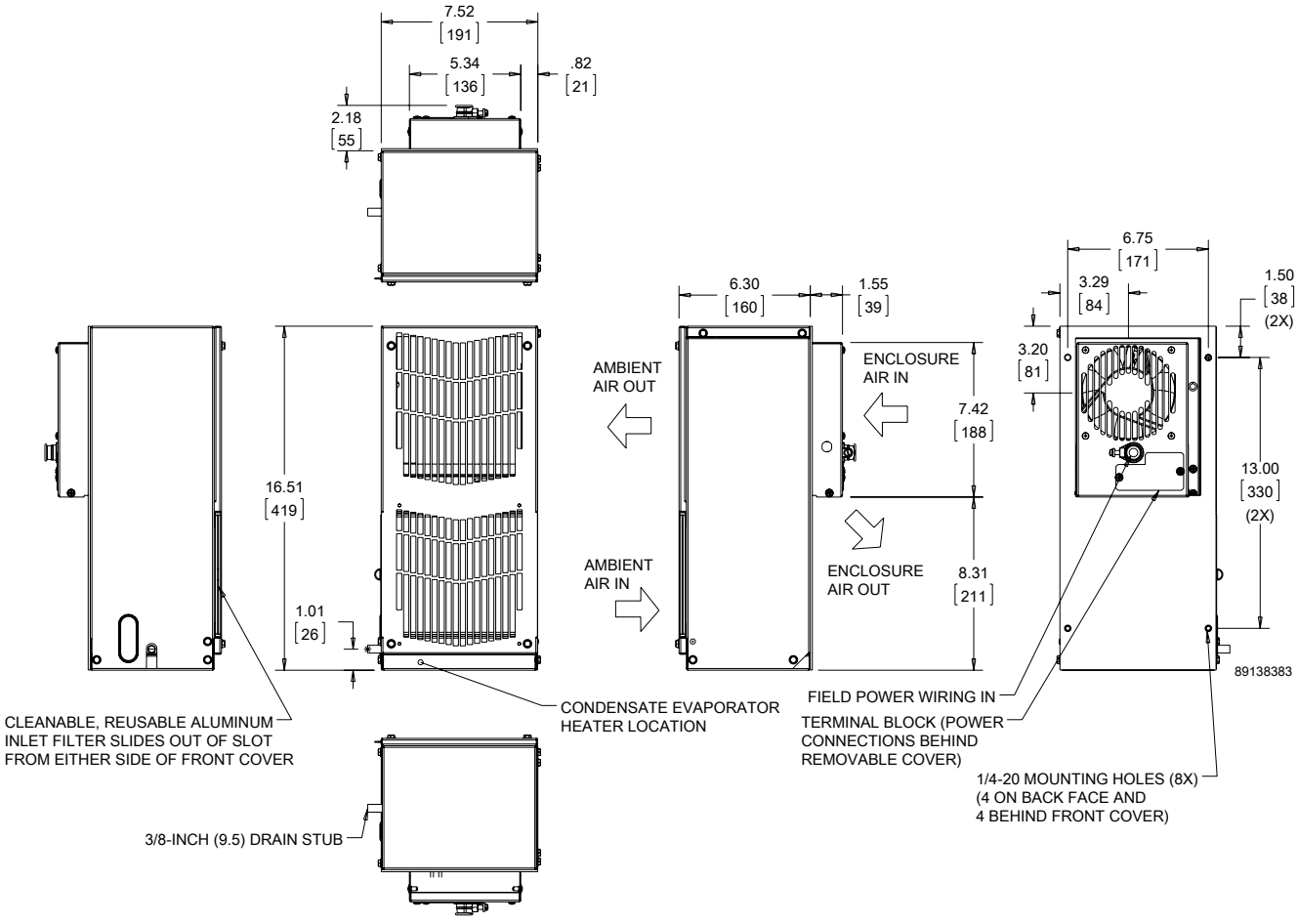


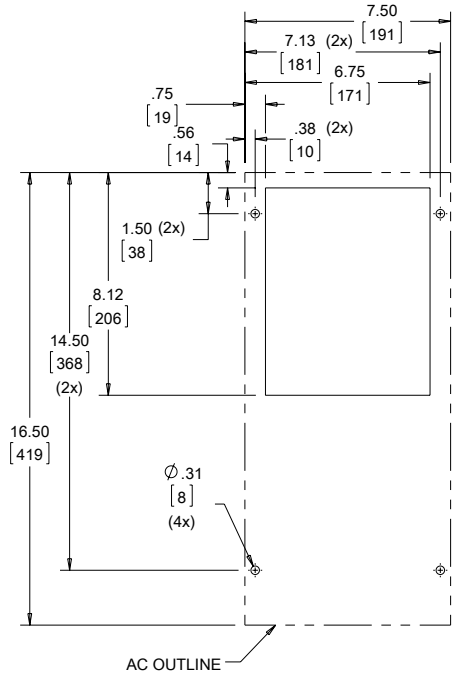
Performance Curves for N16 Models 800 BTU/Hr. (234 Watt)





N16 800 BTU/Hr. (234 Watt)





Cutout Dimensions
(Externally Mounted)

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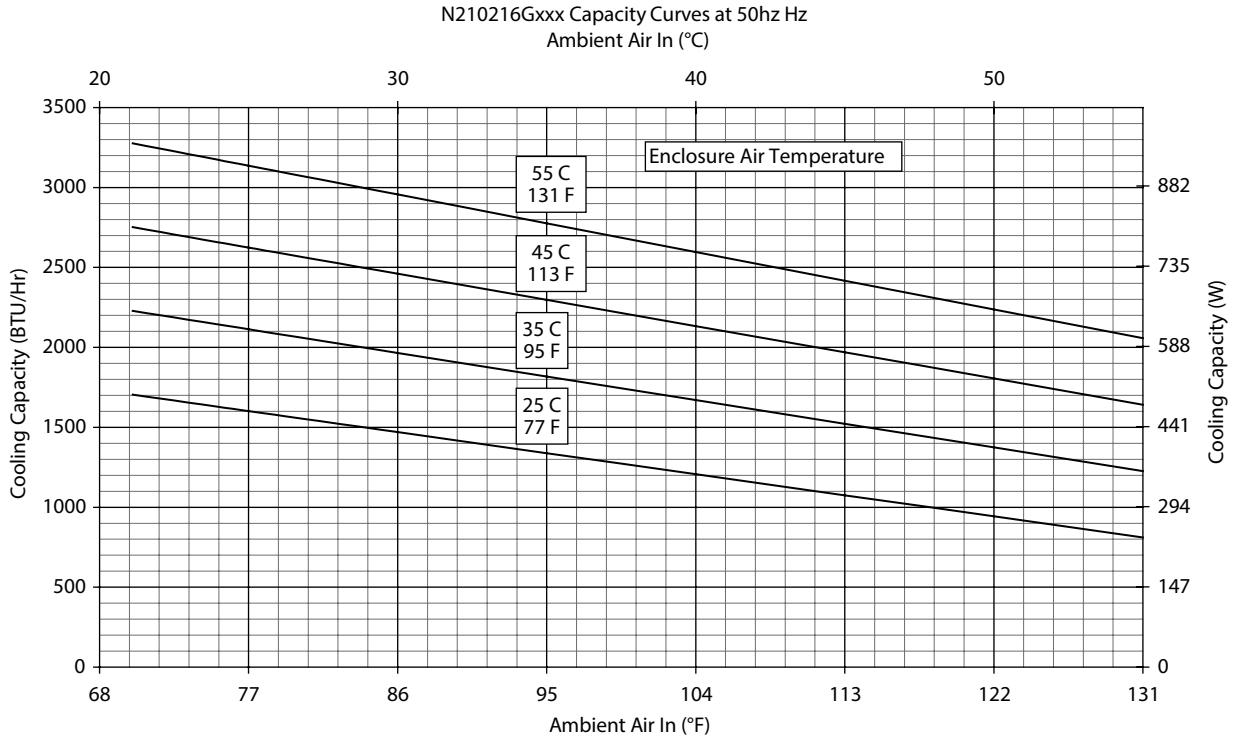
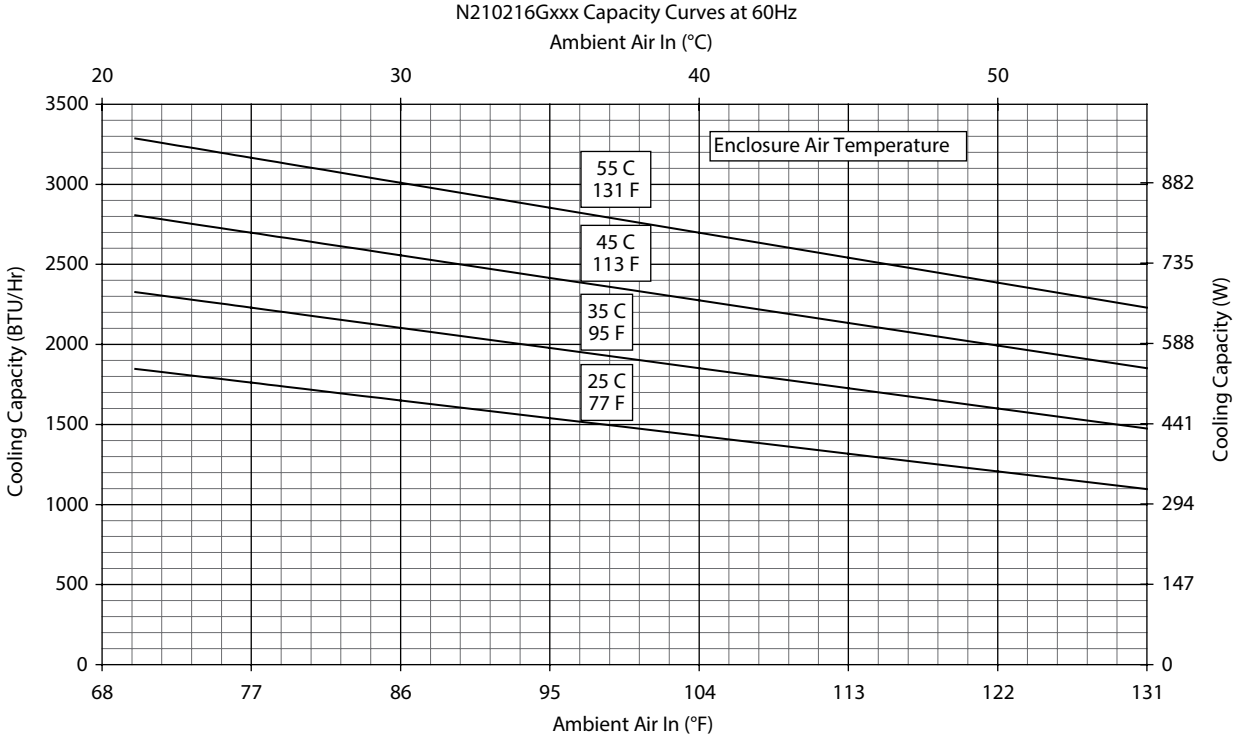
Performance Data **N21 2000 BTU/Hr. (586 Watt) Models**

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

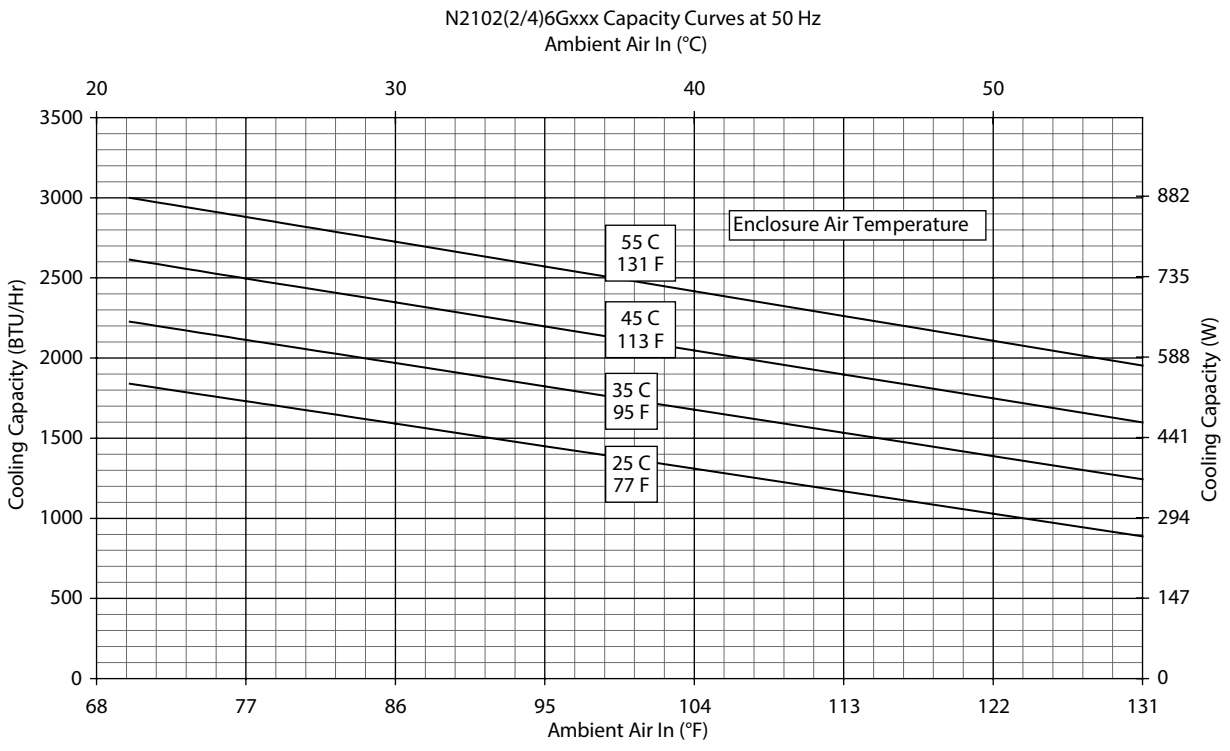
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

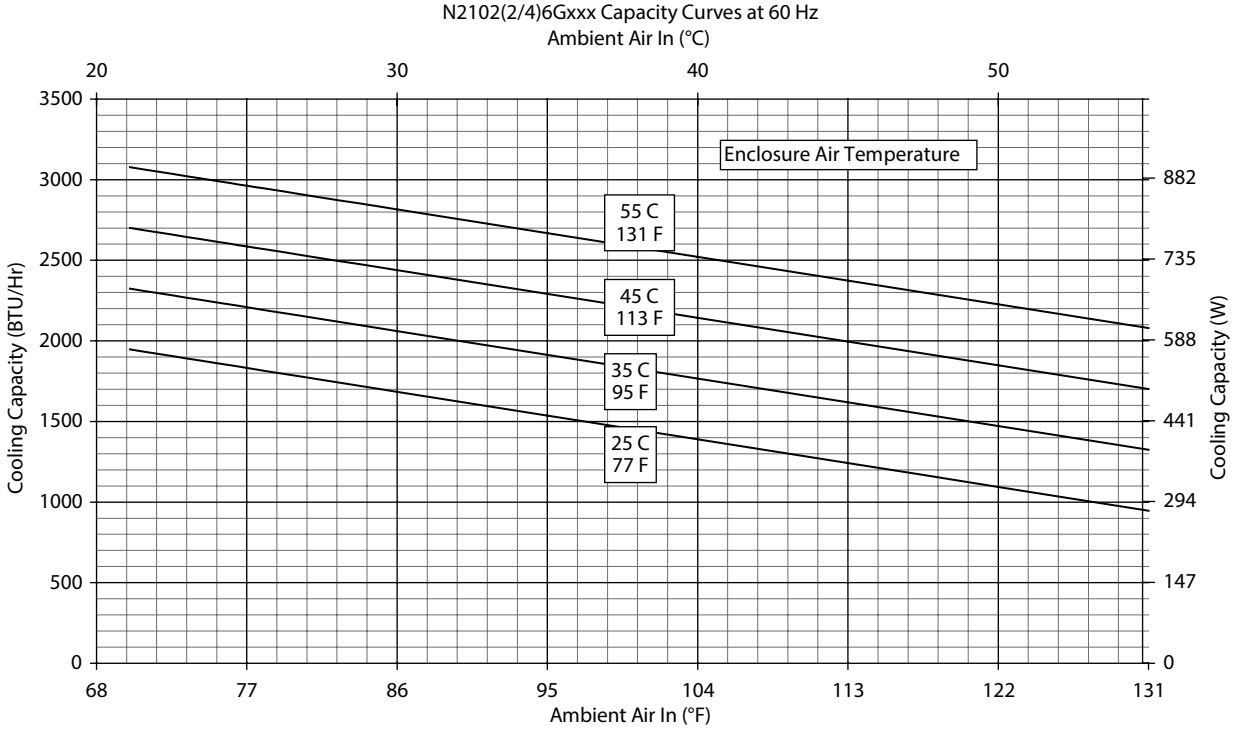
Performance Curves for N21 Models 2000 BTU/Hr. (586 Watt)



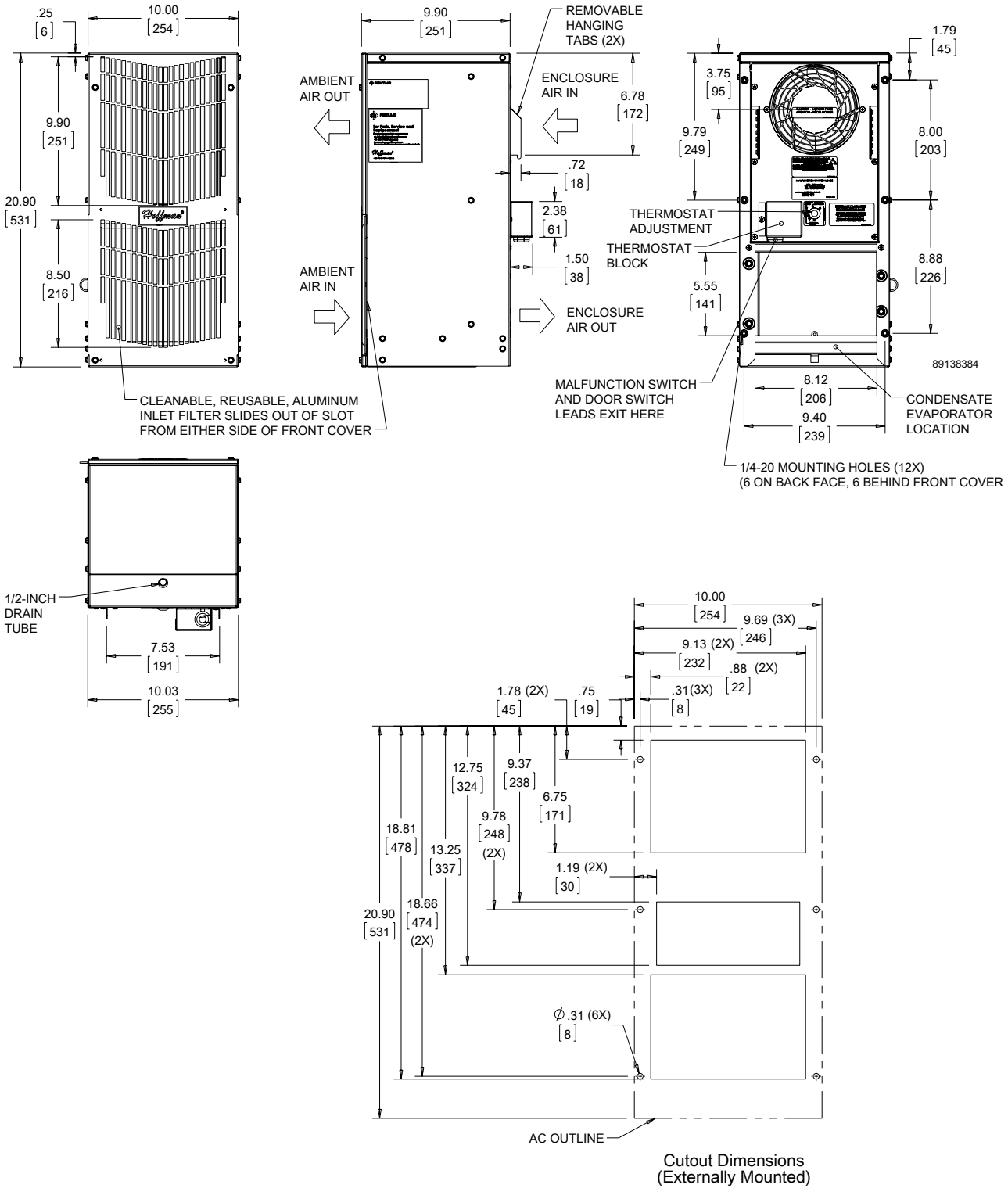


Performance Curves for N21 Models 2000 BTU/Hr. (586 Watt)





N21 115/230V Models 2000 BTU/Hr. (586 Watt)



Cutout Dimensions
(Externally Mounted)

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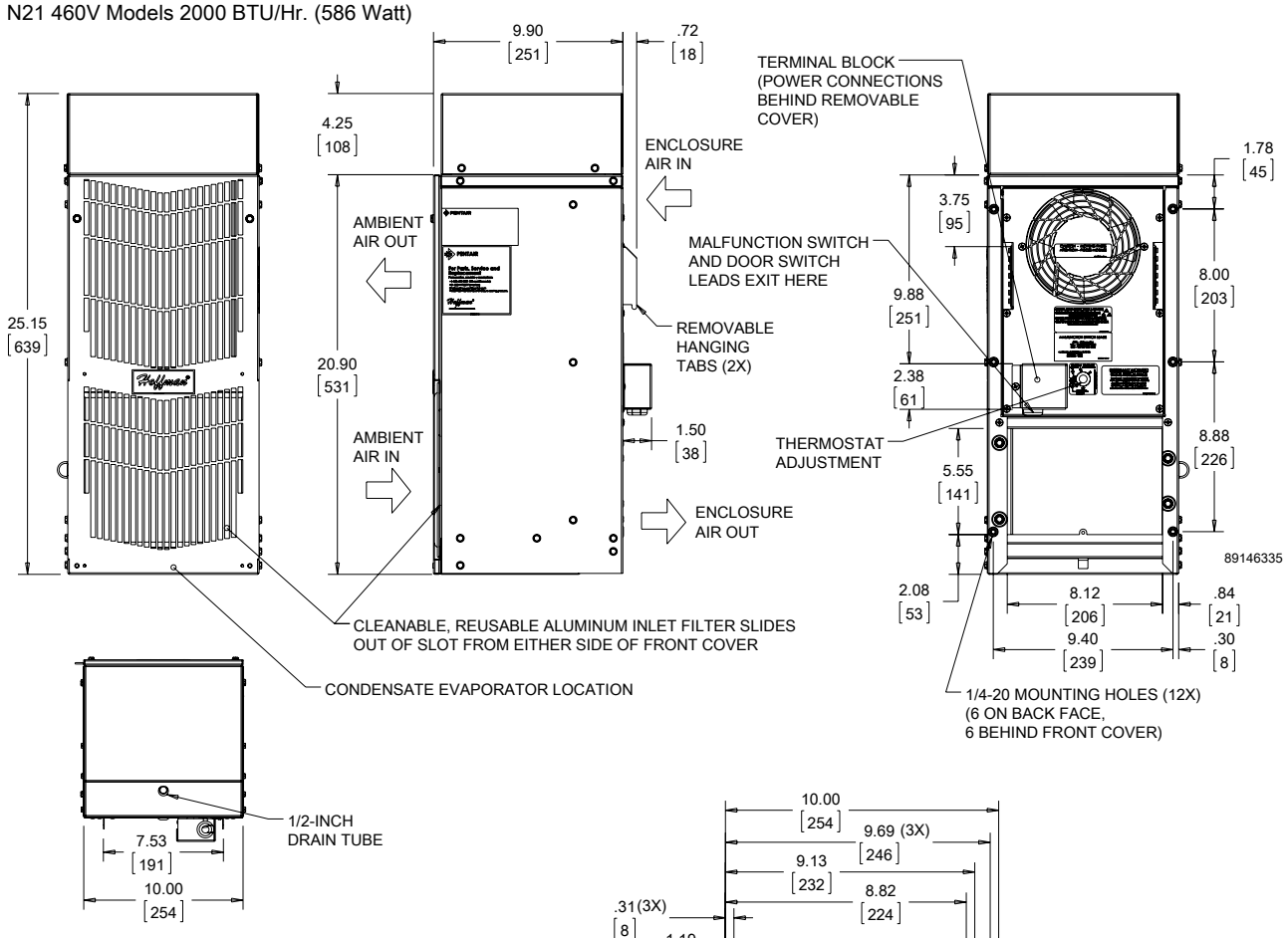
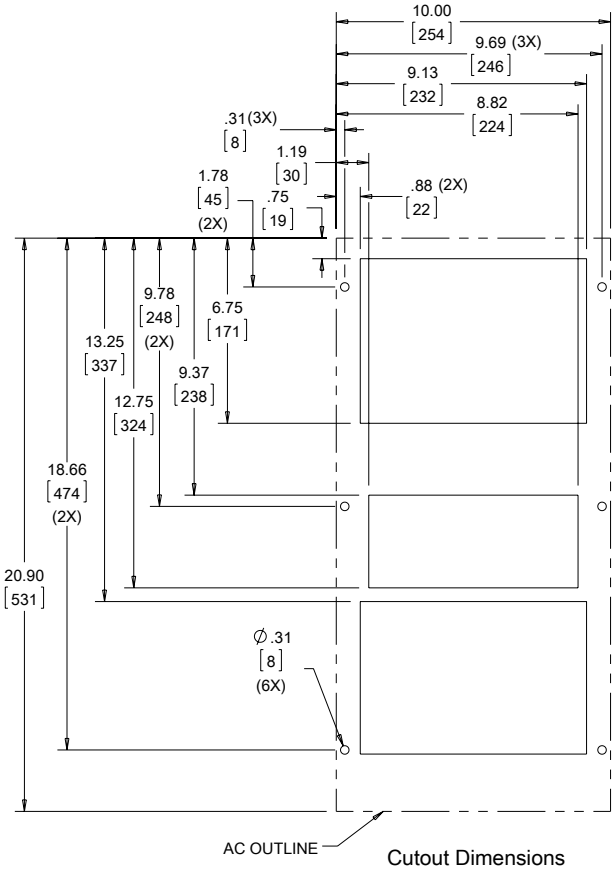
N21 460V Models 2000 BTU/Hr. (586 Watt)





Cutout Dimensions

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SPECTRACOOL NARROW INDOOR/OUTDOOR

N43	N36	N28
11000 BTU/Hr.	6000/8000 BTU/Hr.	4000 BTU/Hr.
3223 Watt	1758/2344 Watt	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

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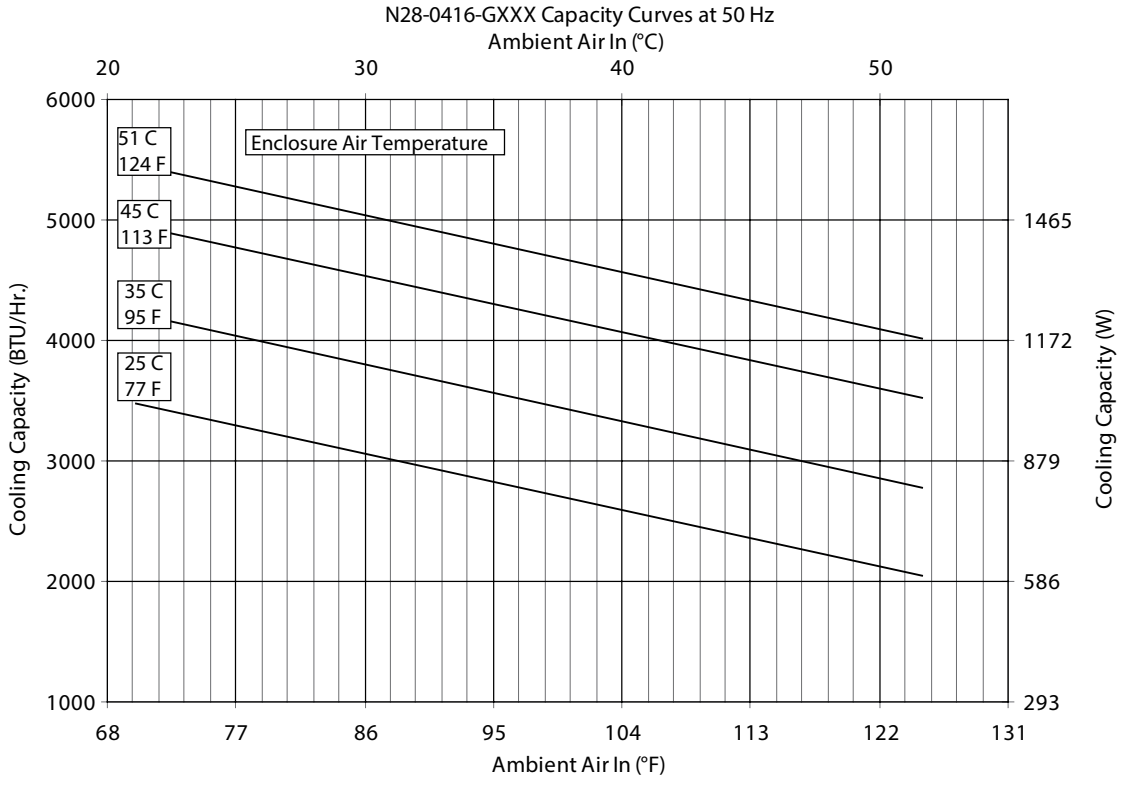
EtherNet/IP ODVA PI PROFIBUS • PROFINET

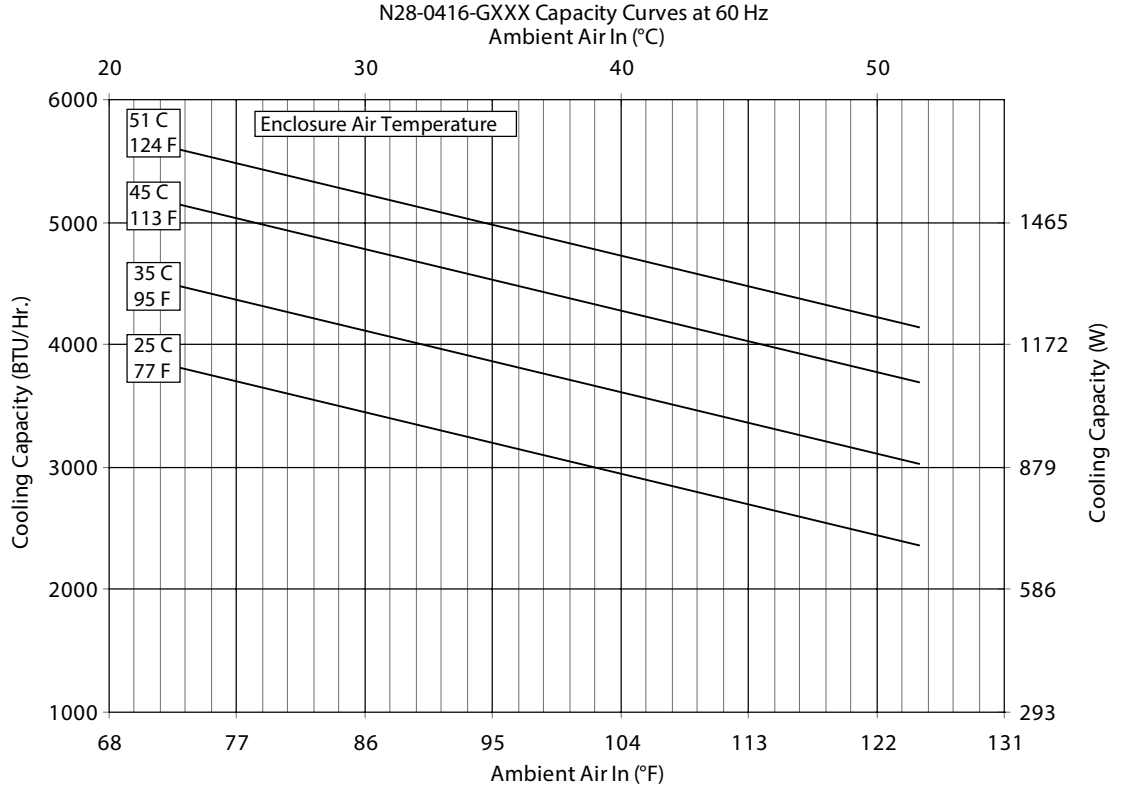
Performance Data **N28 4000 BTU/Hr. (1172 Watt)**

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

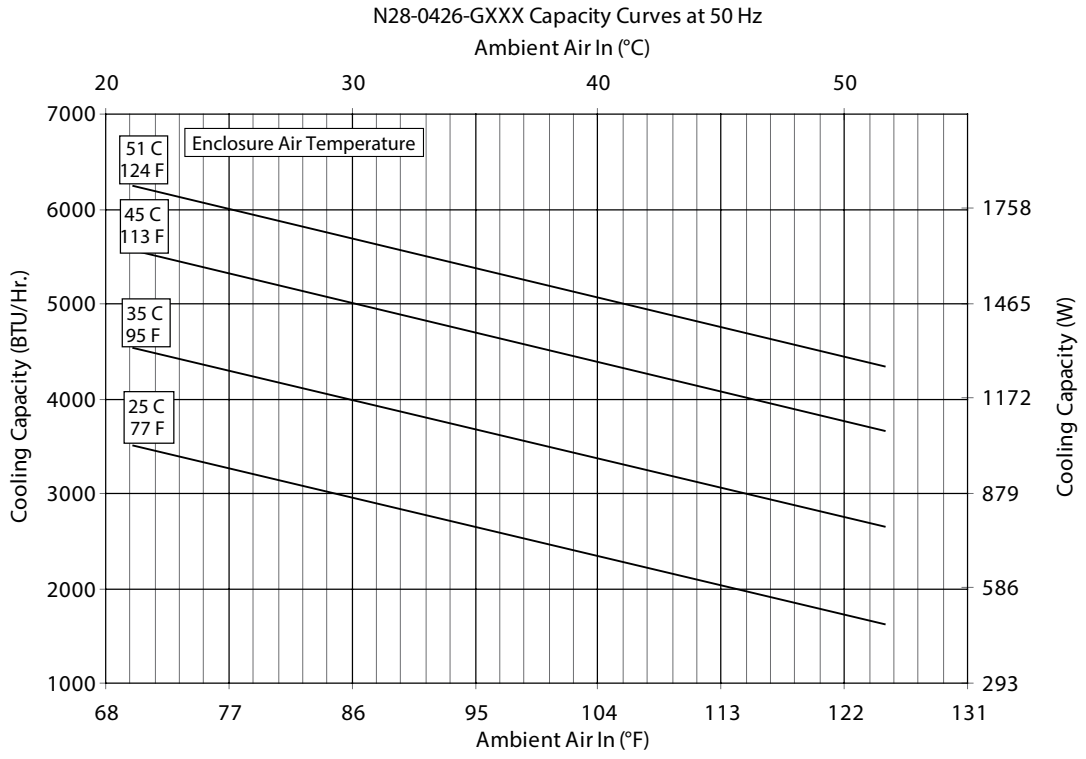
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

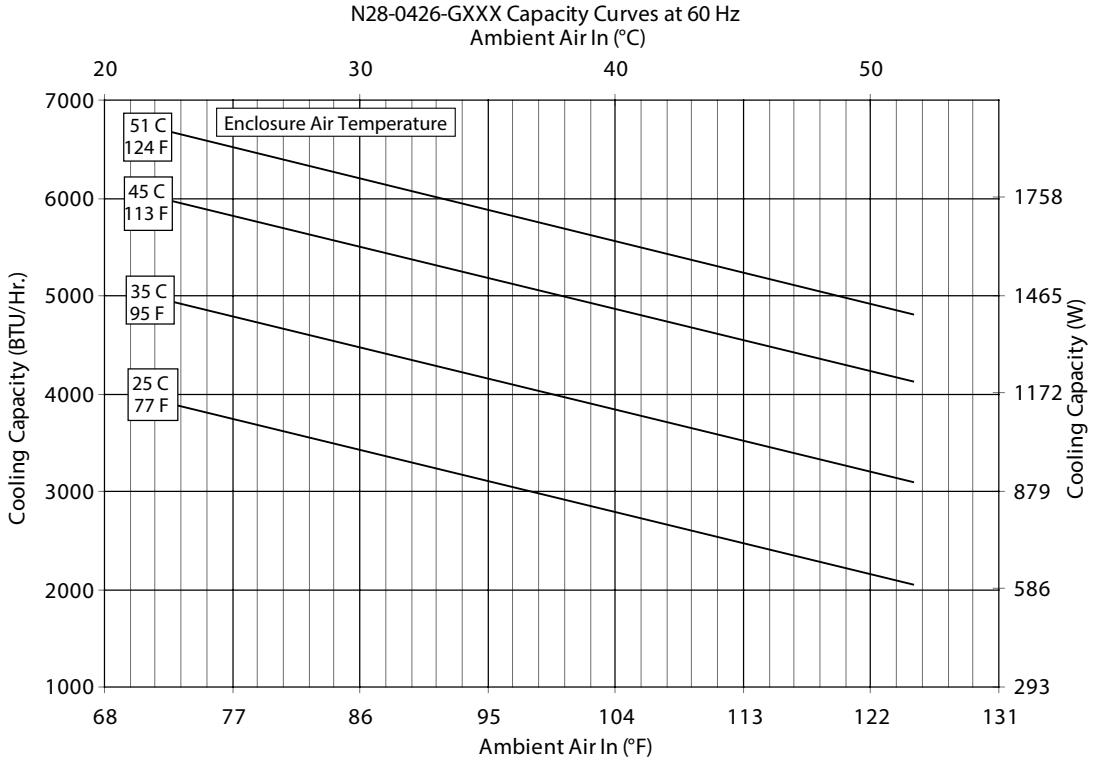
Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)



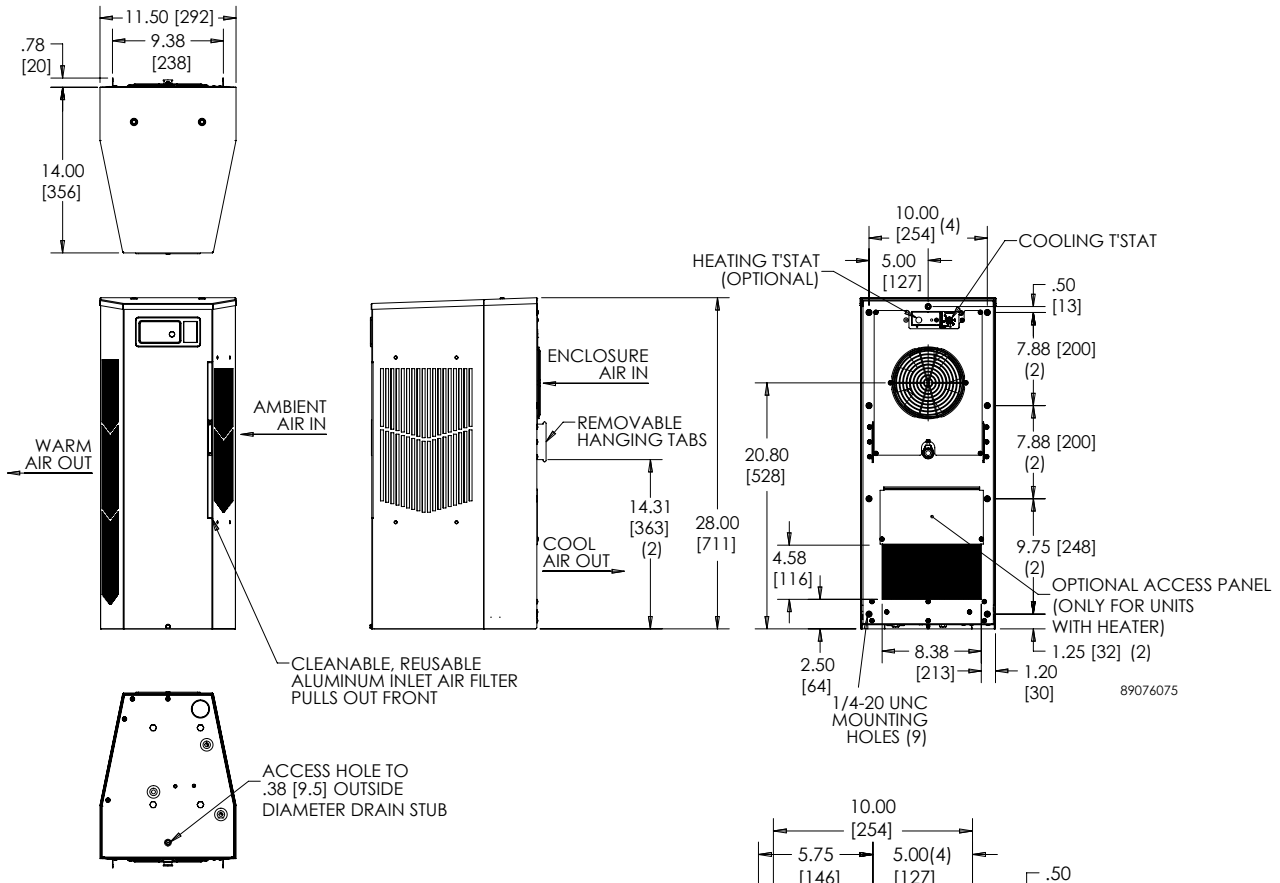


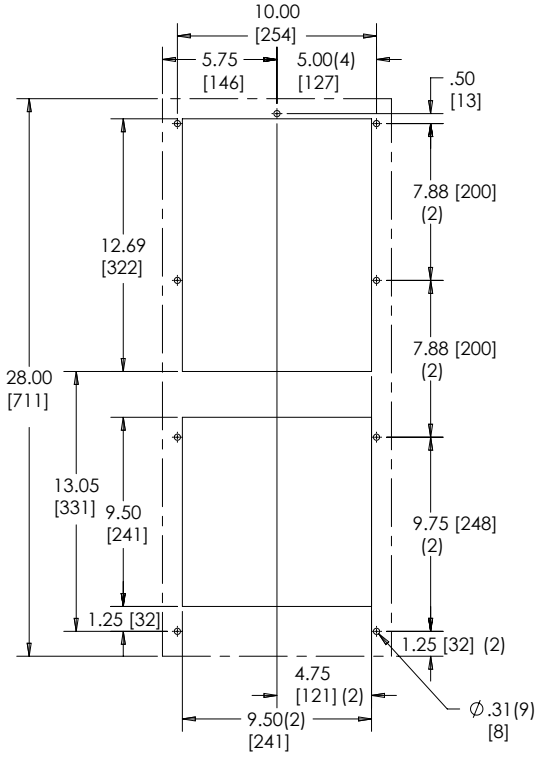
Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)





N28 Models 4000 BTU/Hr. (1172 Watt)





Cutout Dimensions

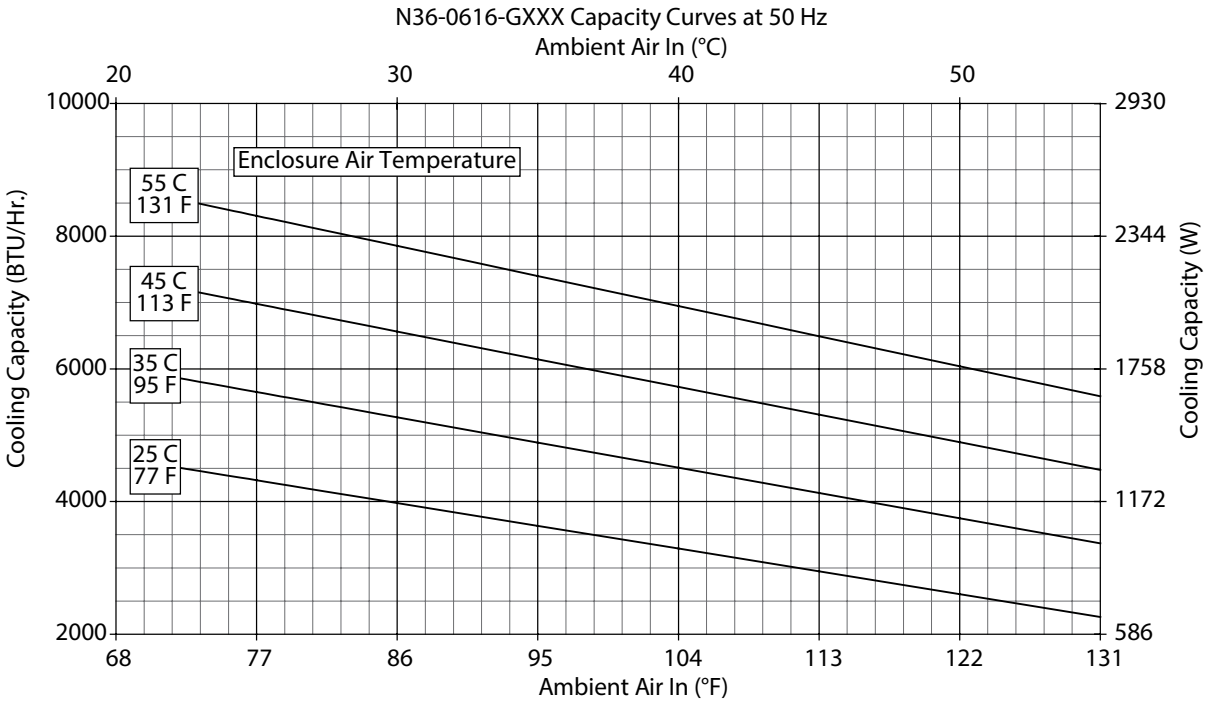
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

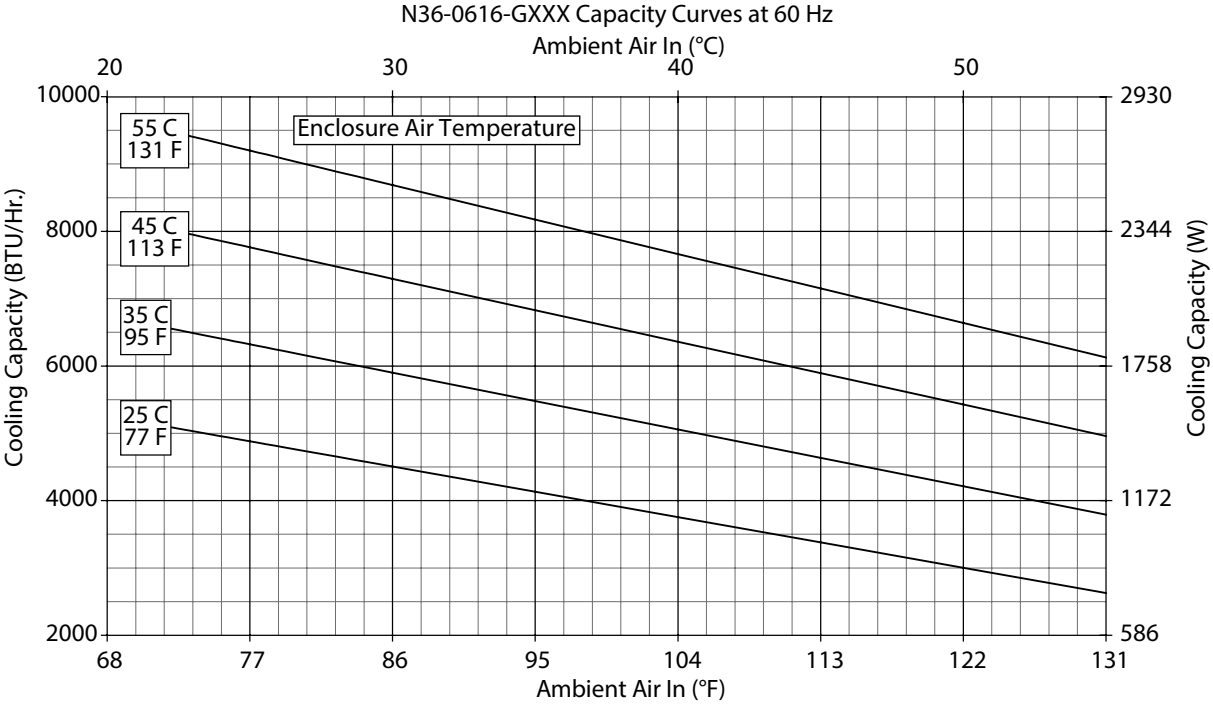
Performance Data **N36 6000/8000 BTU/Hr. (1758/2344 Watt)**

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

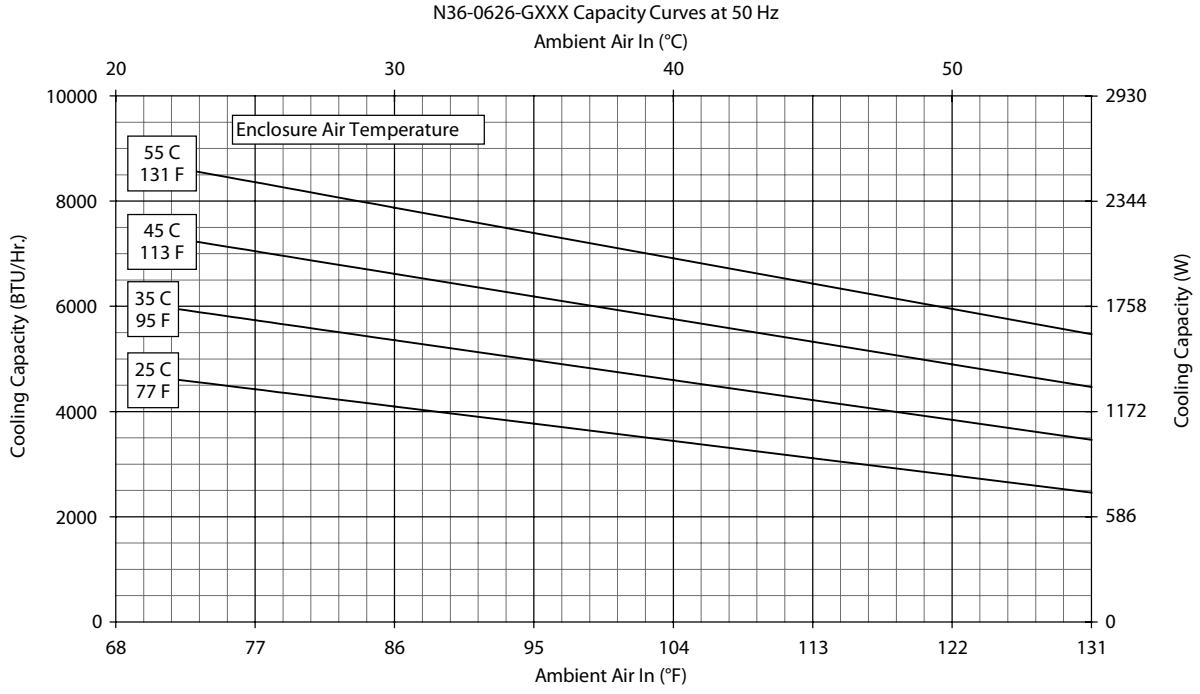
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

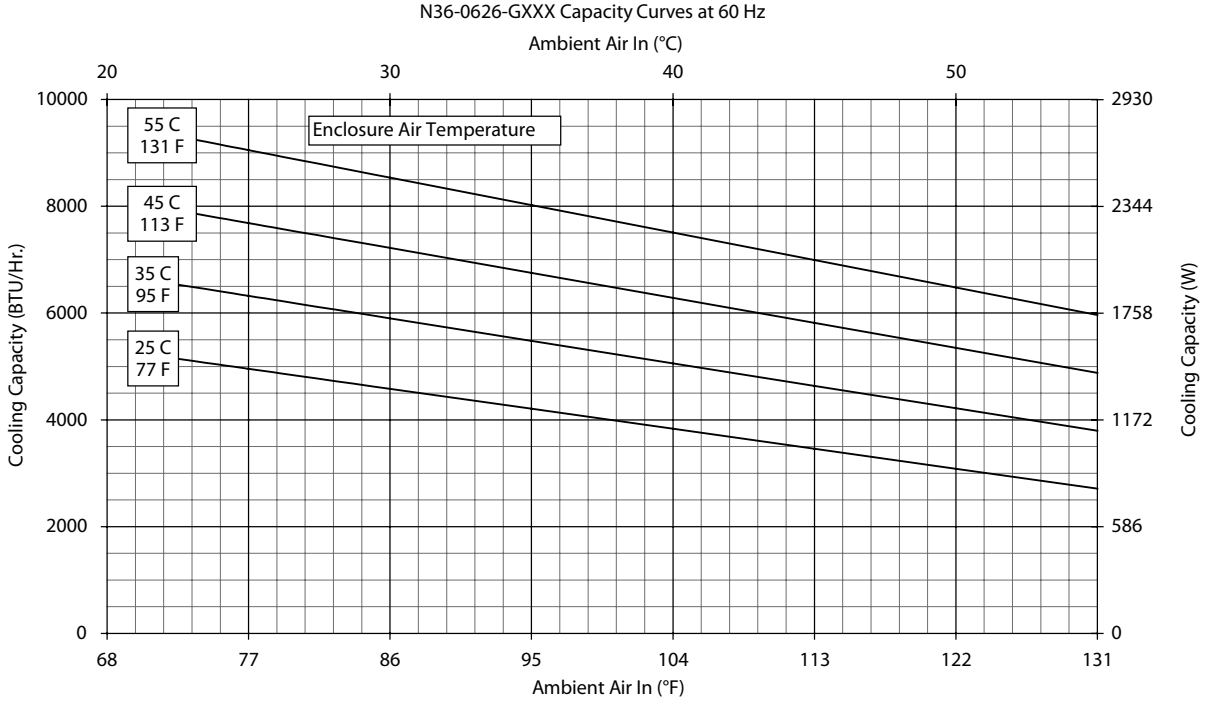
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)



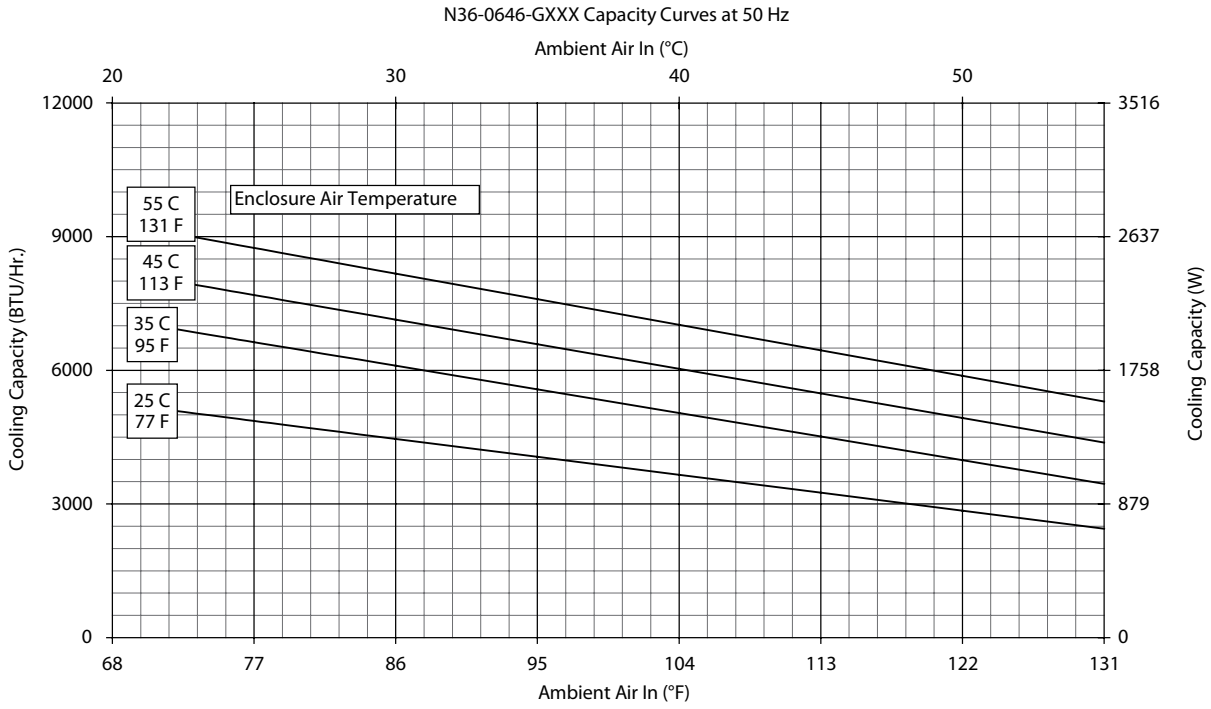


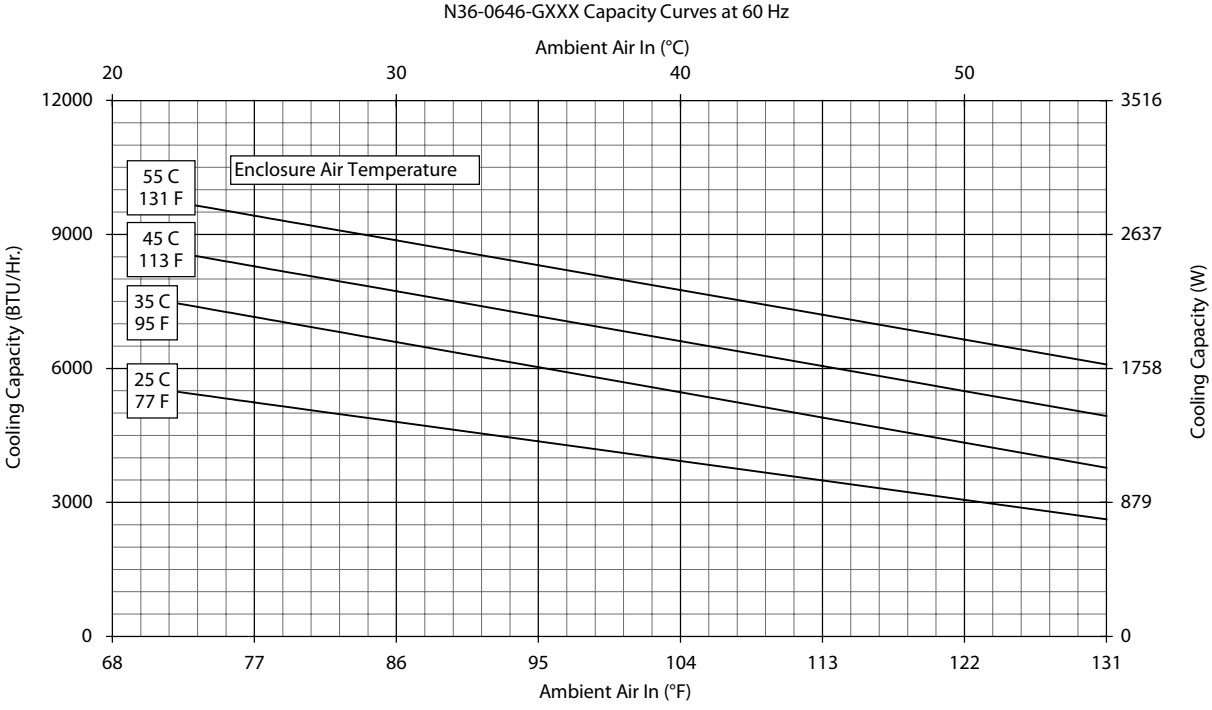
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)



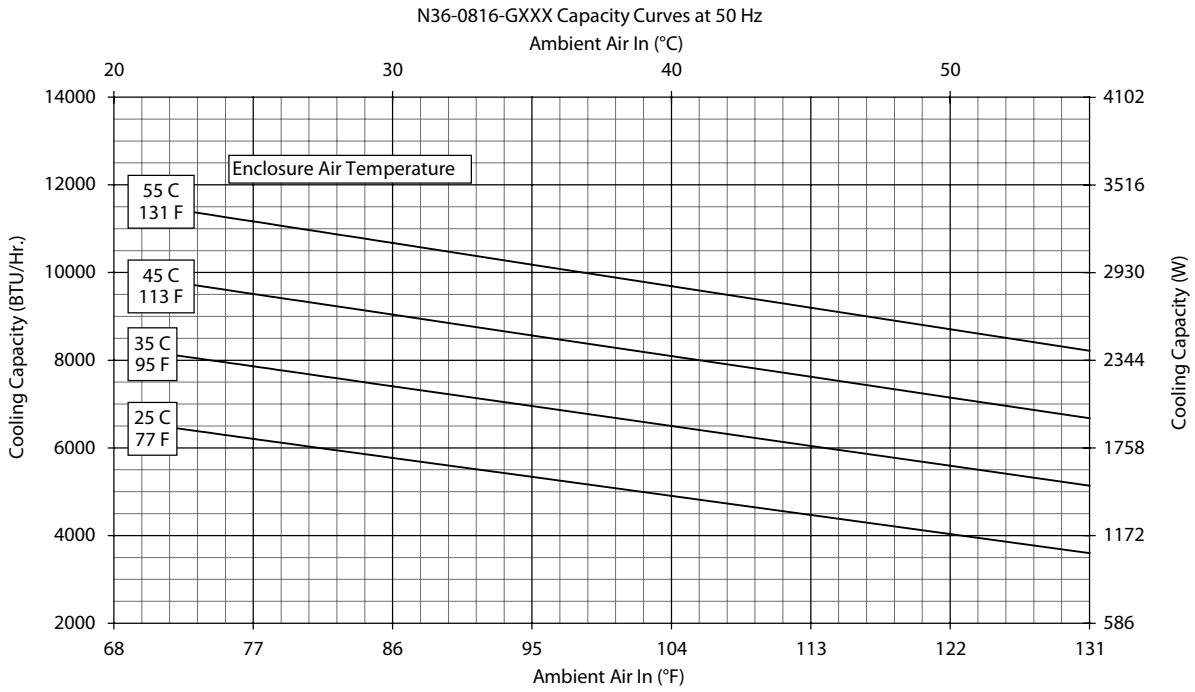


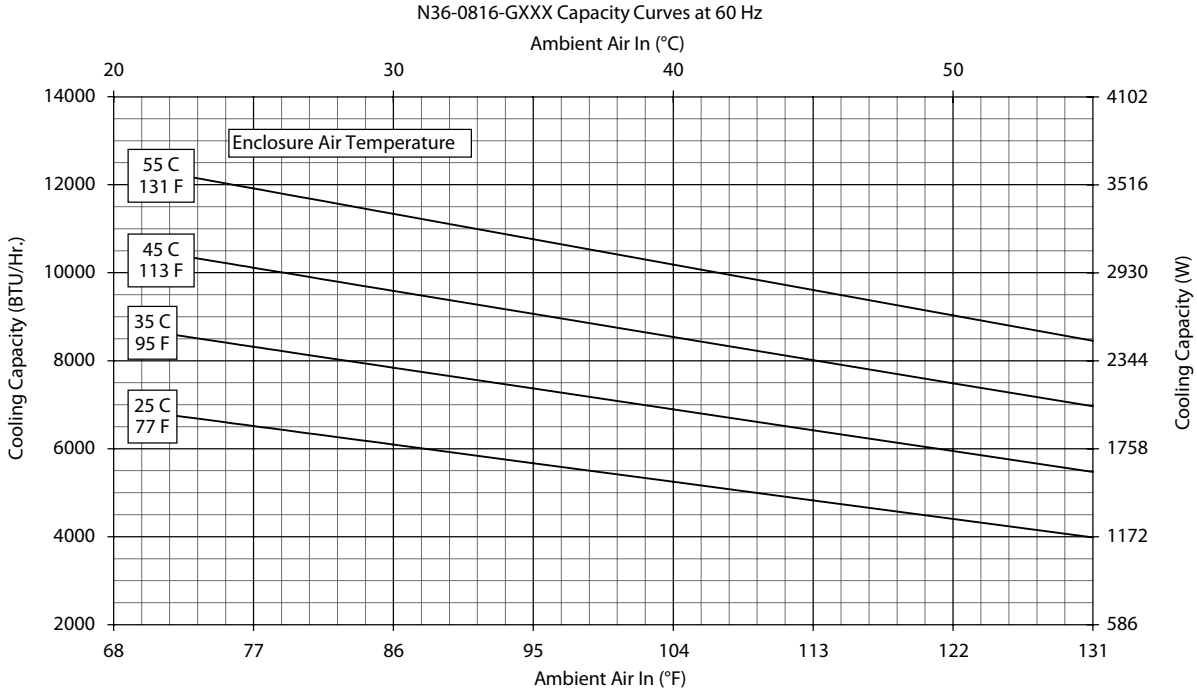
Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)



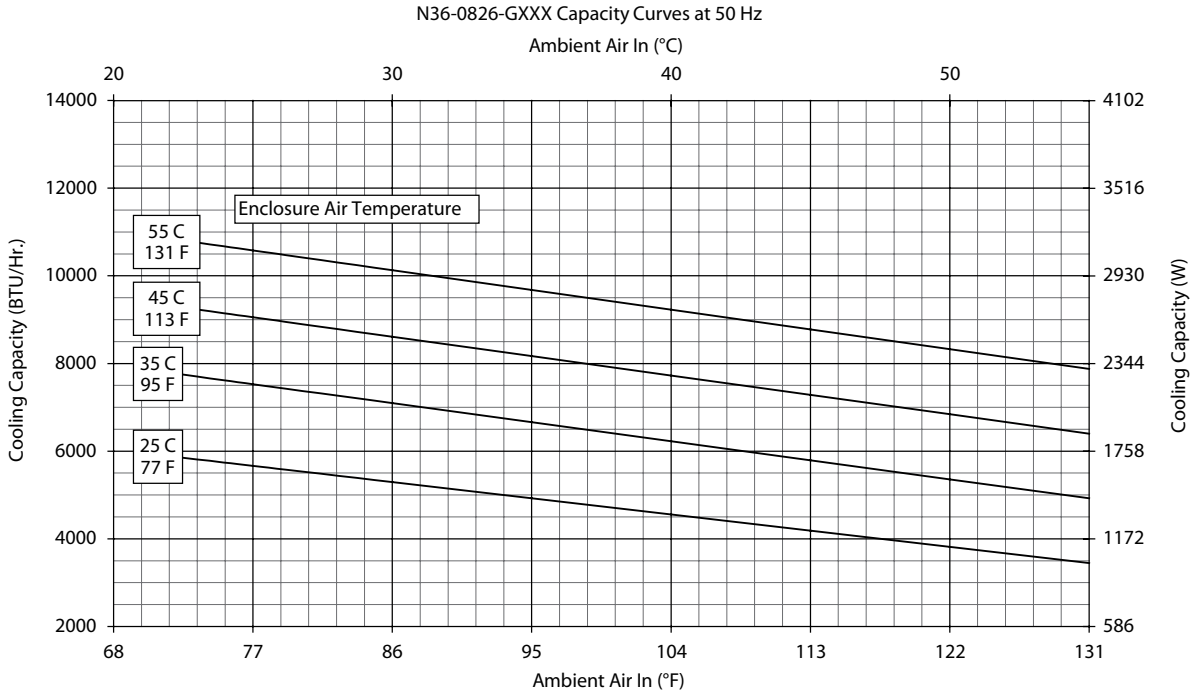


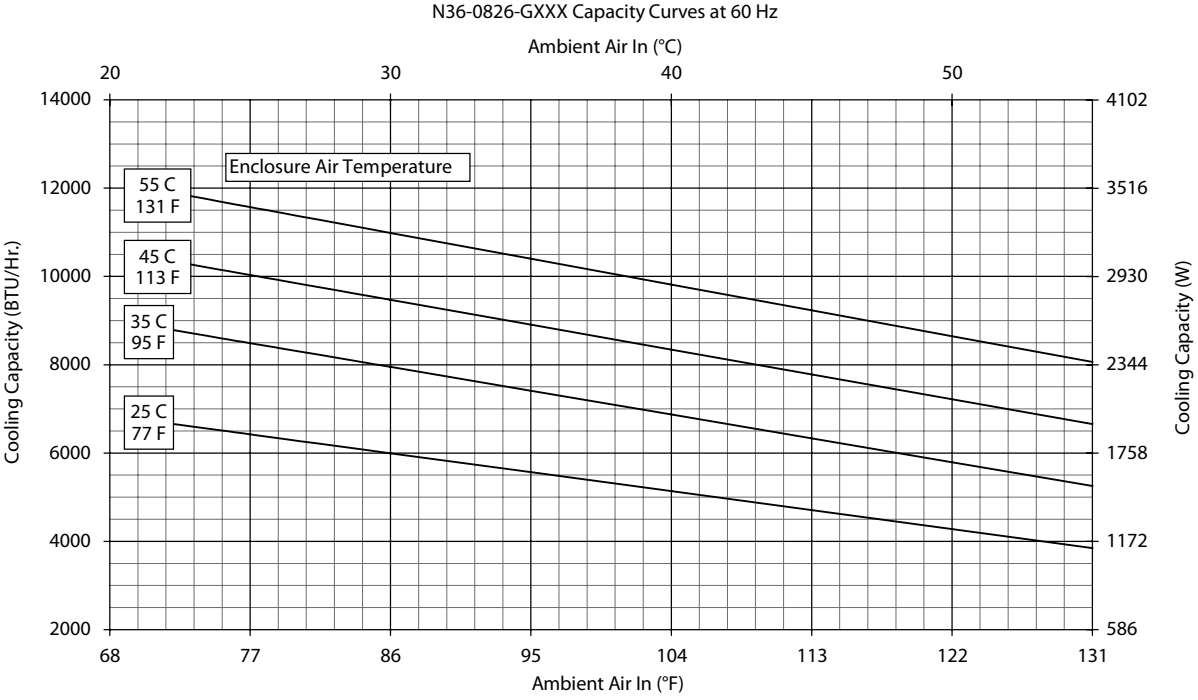
Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)



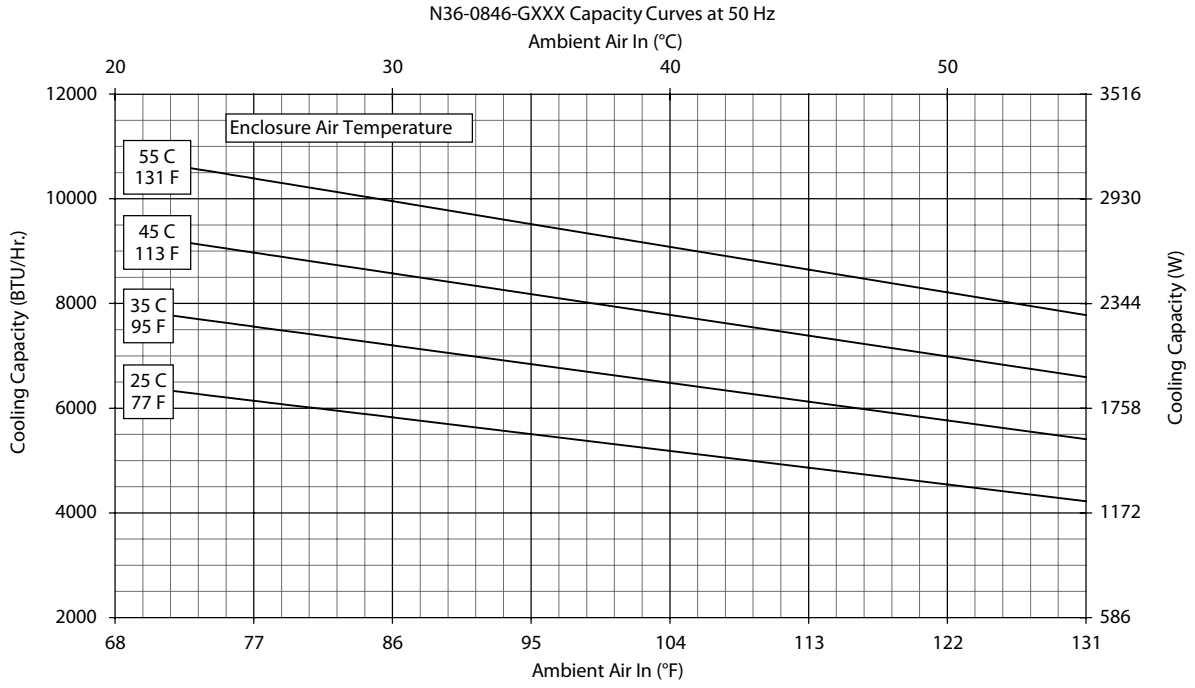


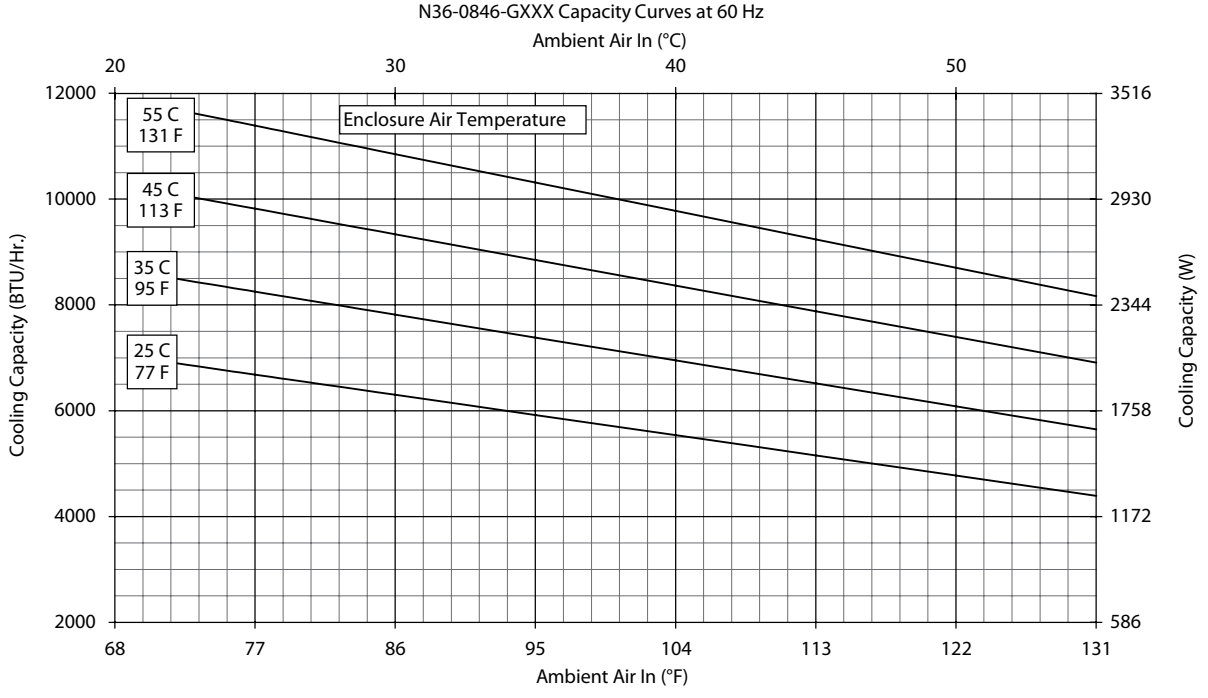
Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)



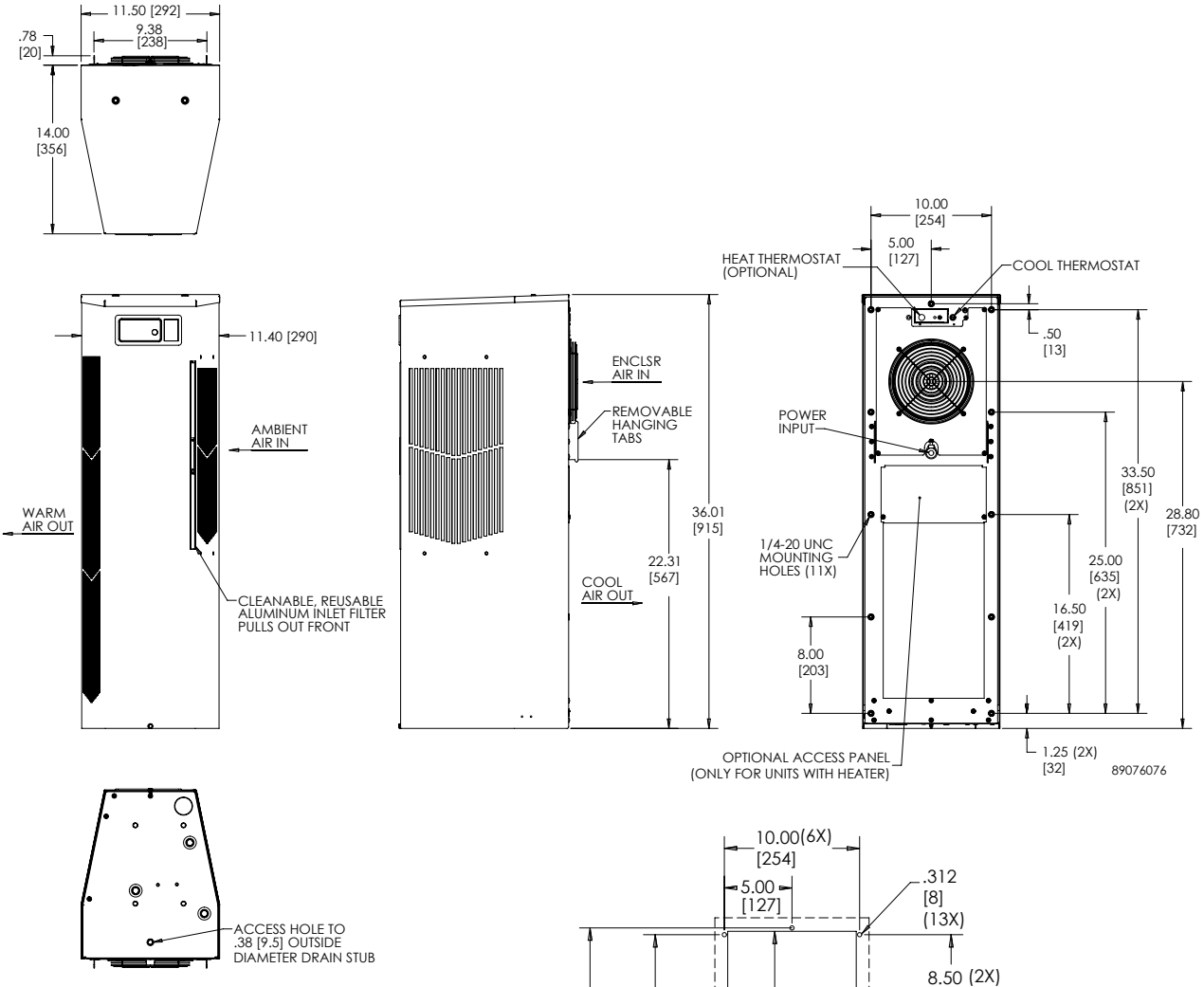


Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)





N36 6000/8000 BTU/Hr. (1758/2344 Watt)



Cutout Dimensions

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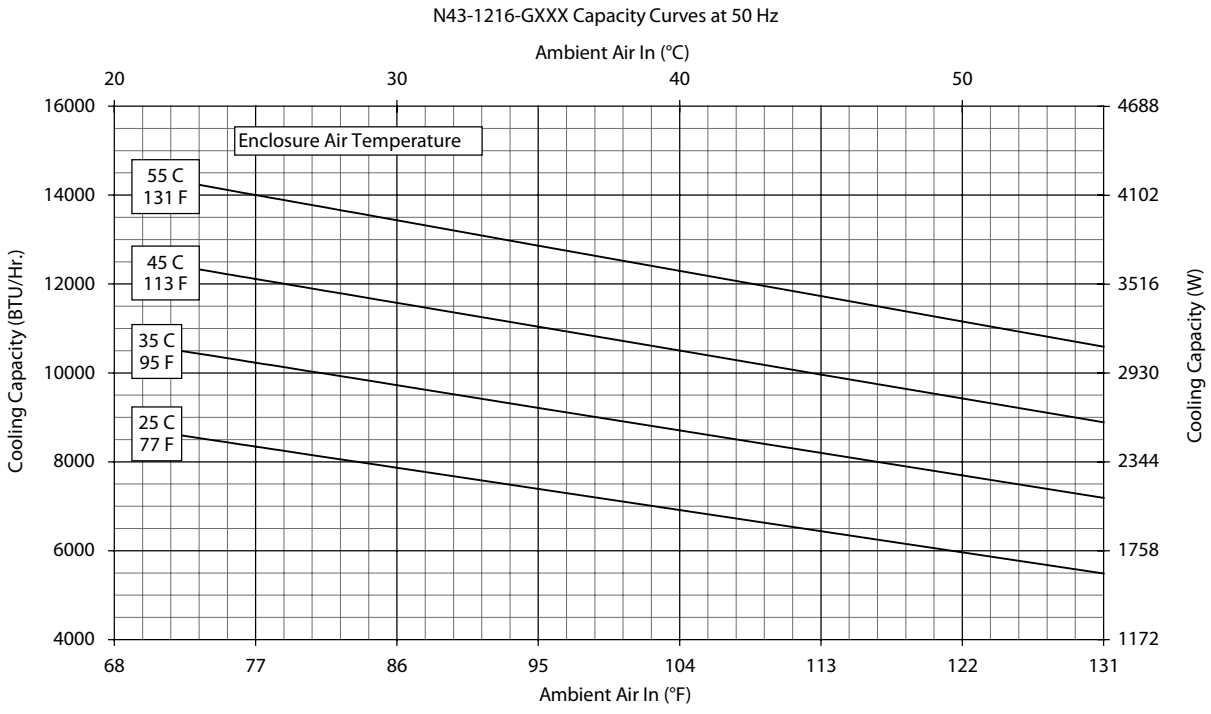
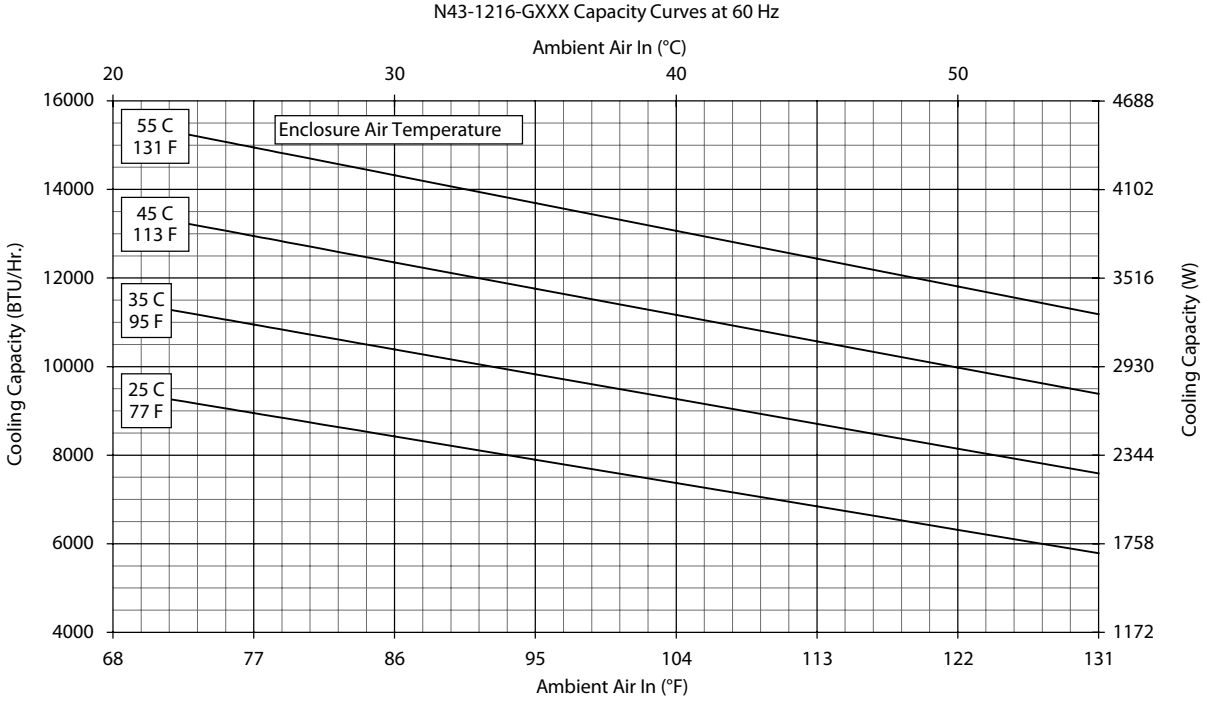
Performance Data **N43 11000 BTU/Hr. (3223 Watt)**

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

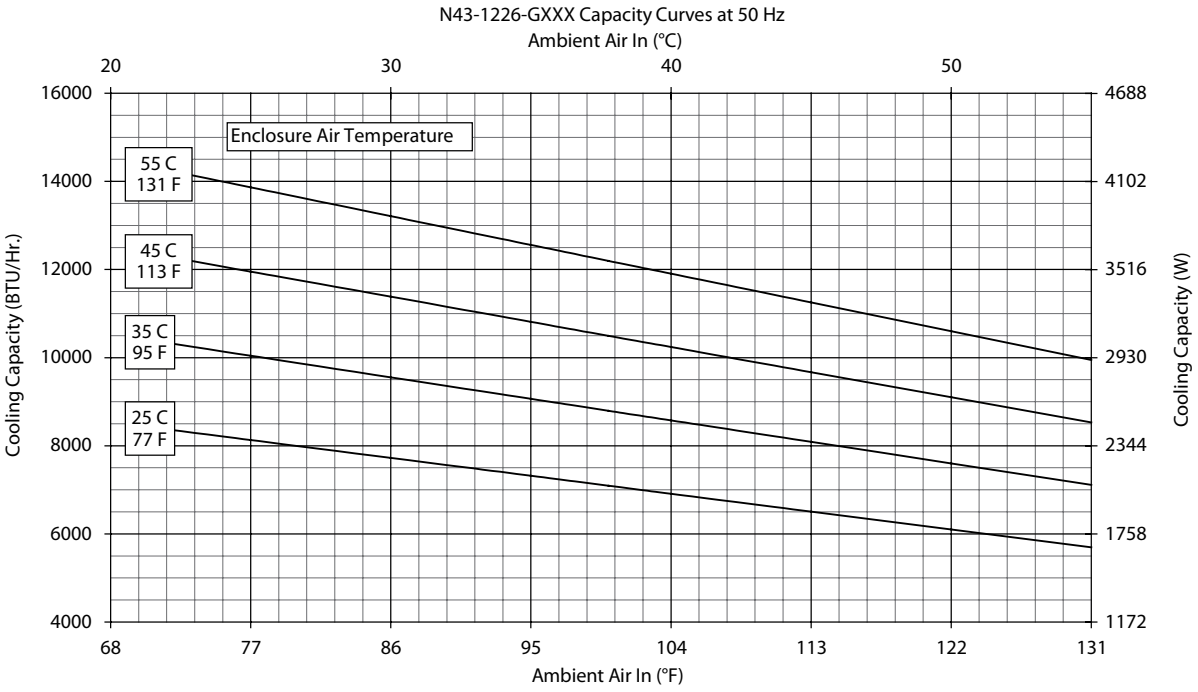
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

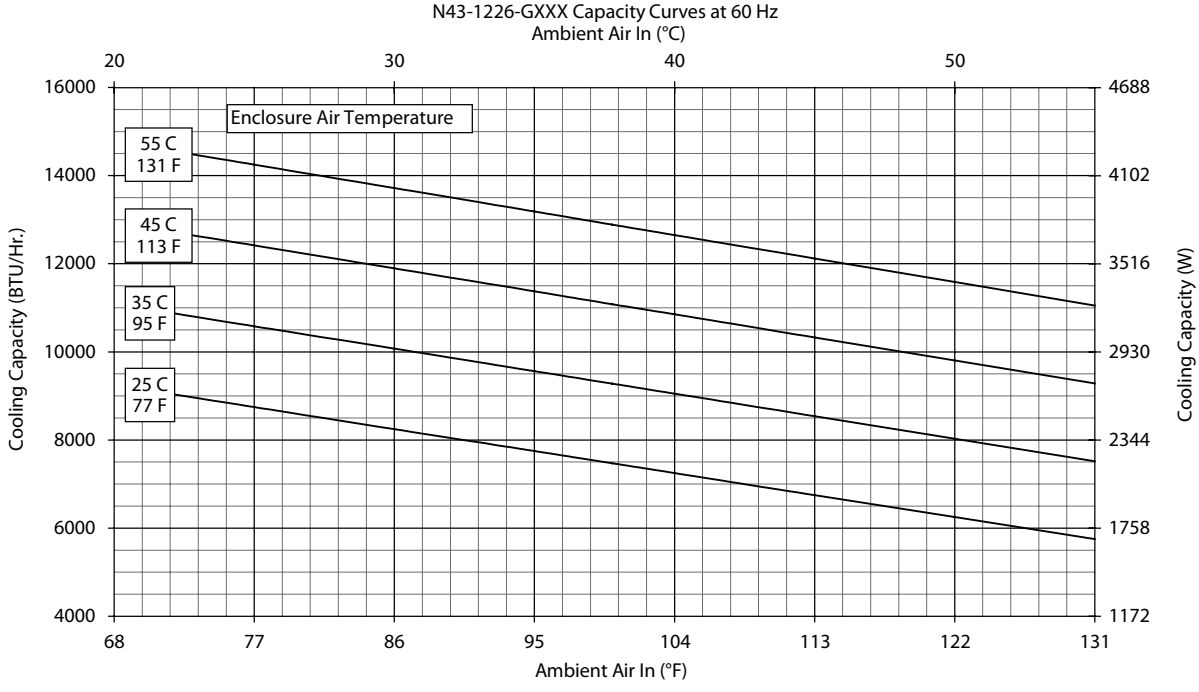
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)



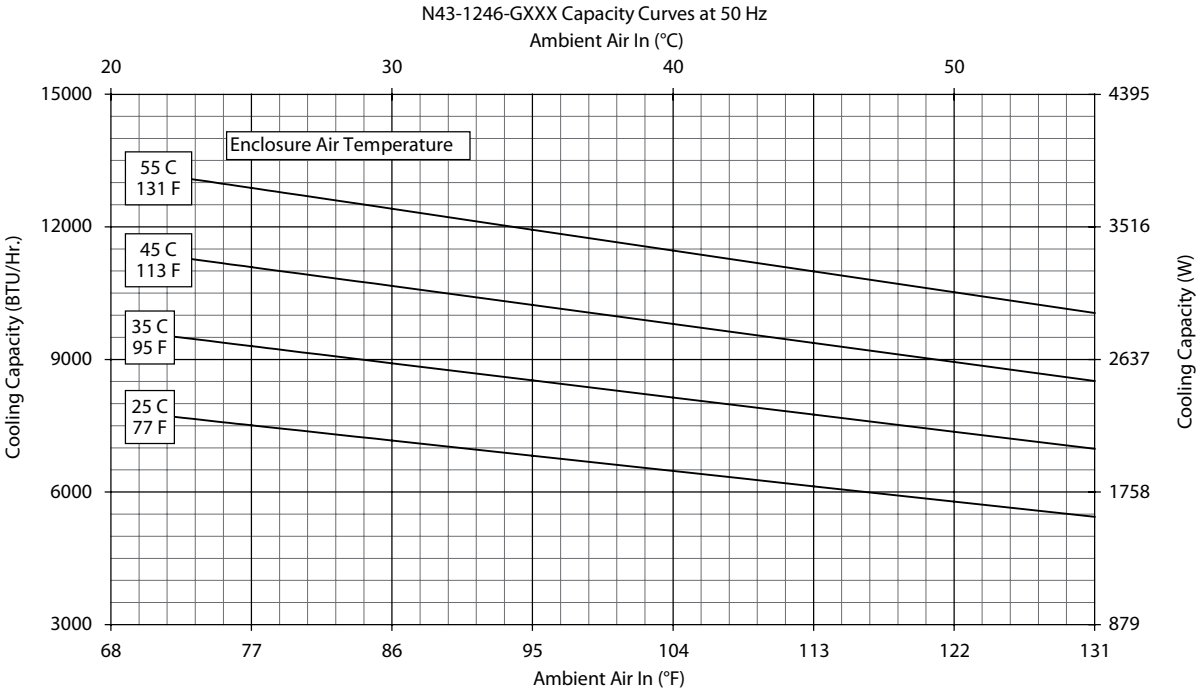


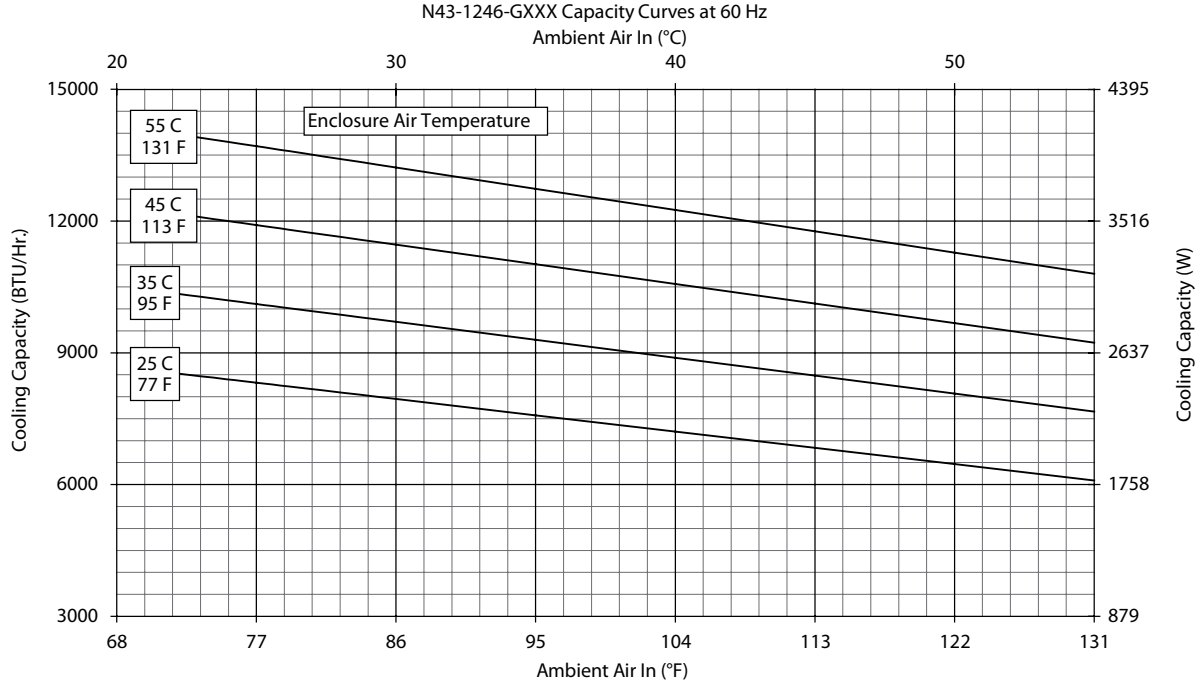
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)



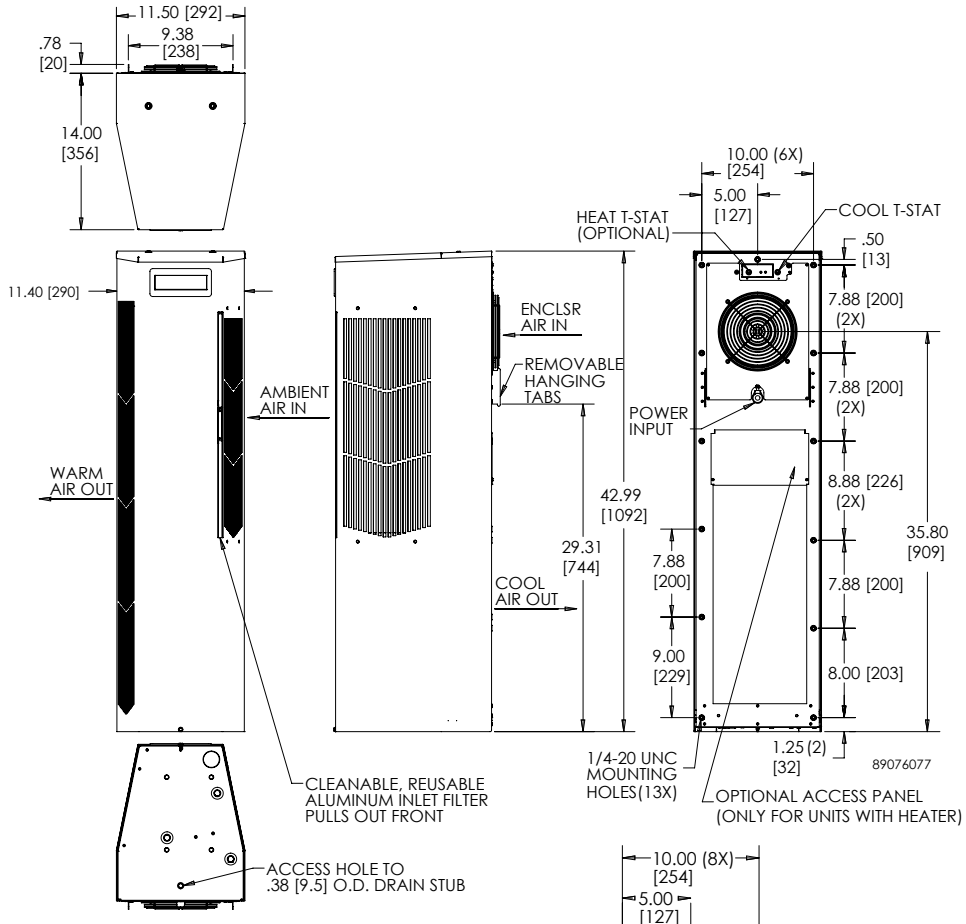


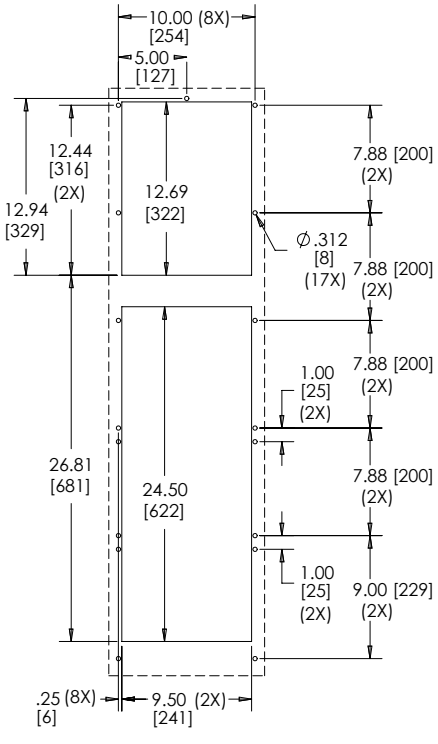
Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)





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

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

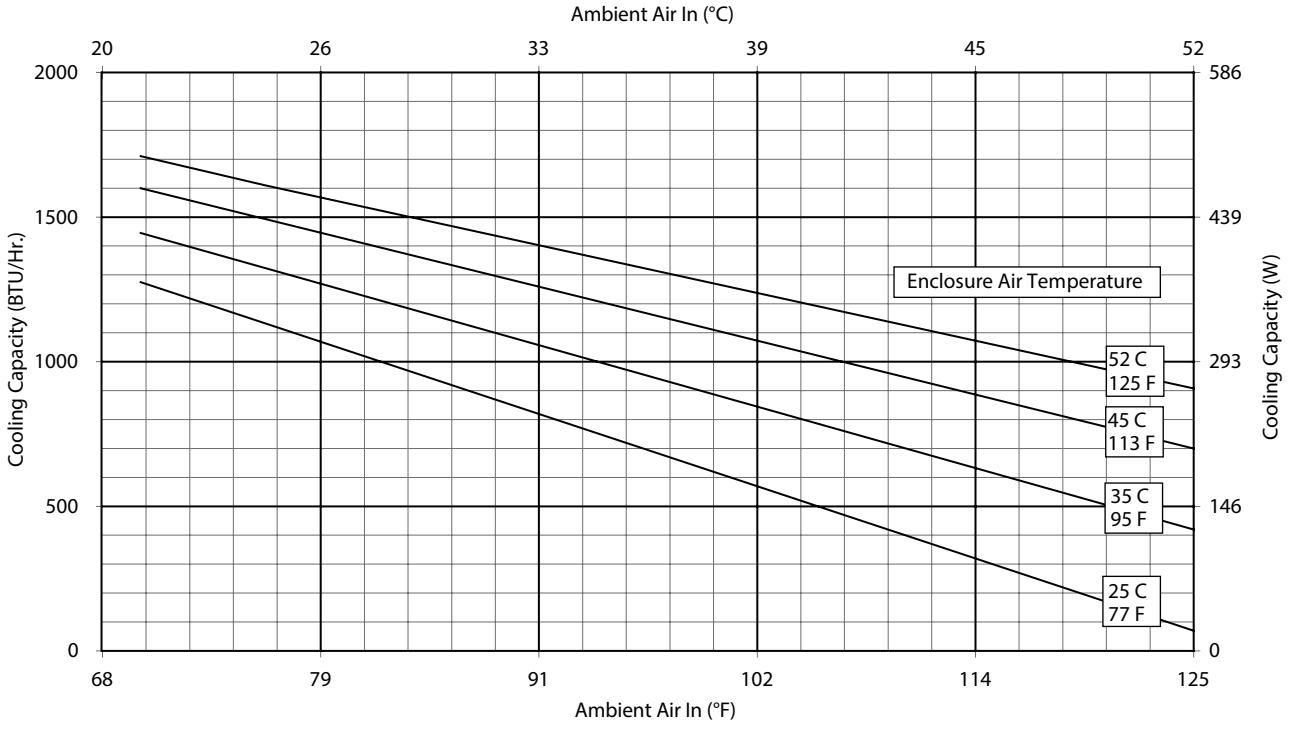
Performance Data **N17 Models 1000/1800 BTU/Hr. (300/527 Watt)**

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

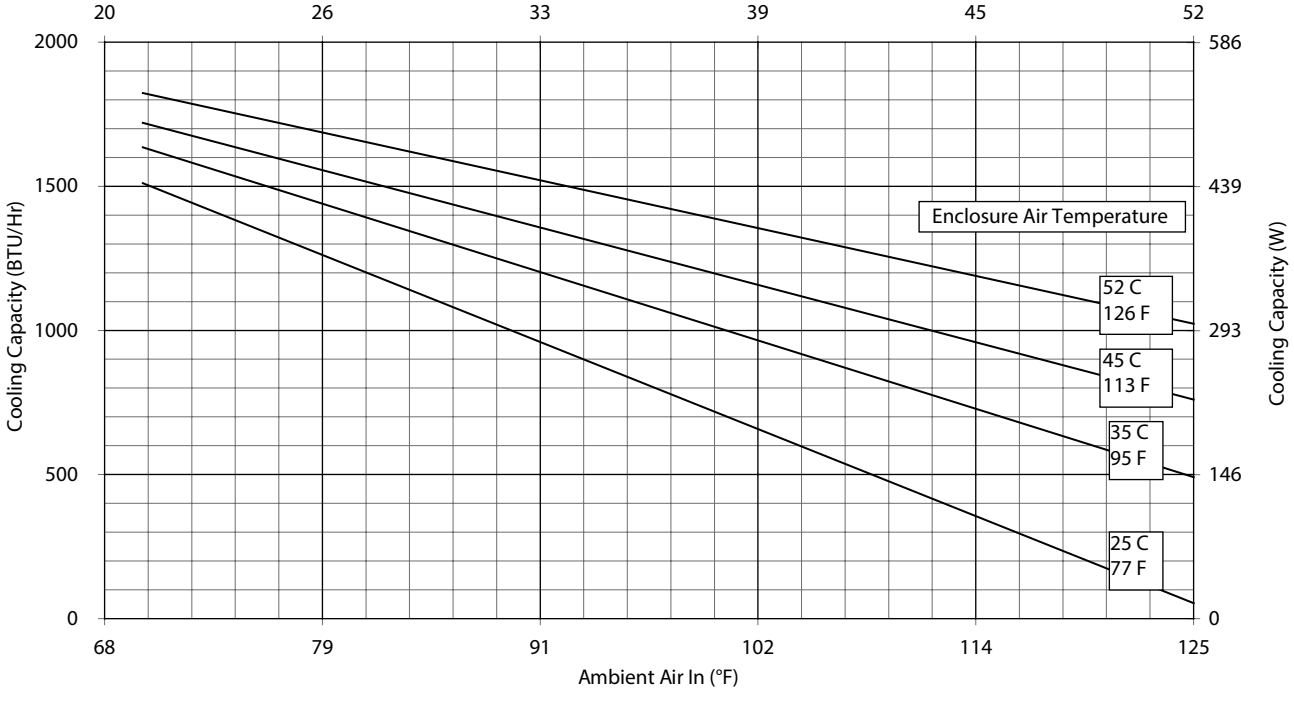
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for N17 Models 1000 BTU/Hr. (293 Watt)

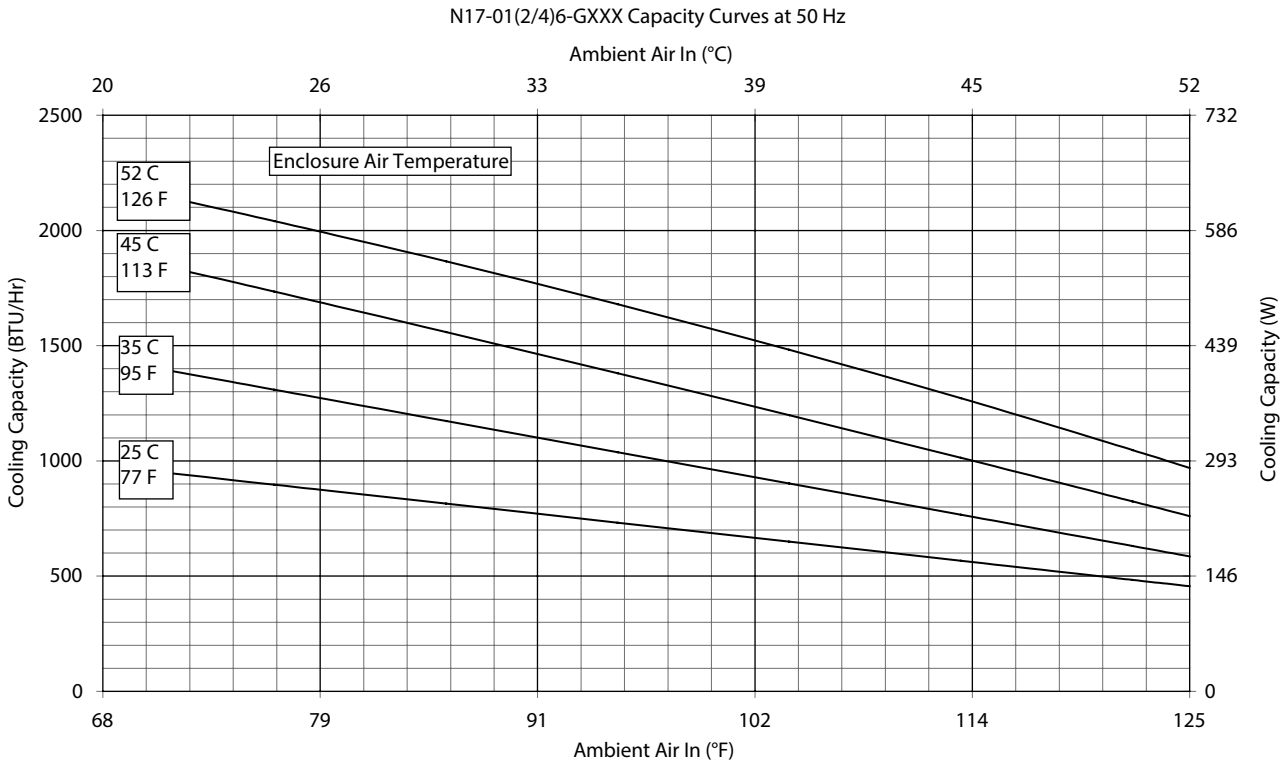
N17-0116-GXXX Capacity Curves at 50 Hz

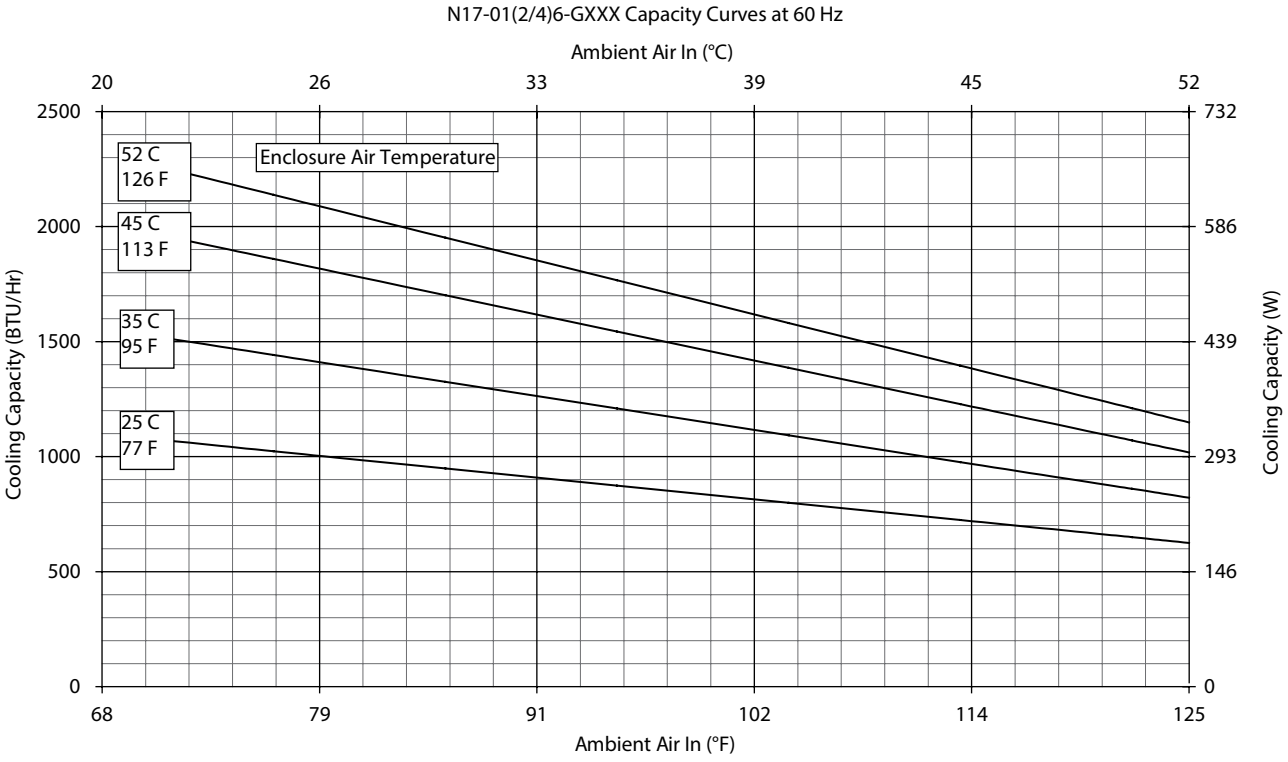


N17-0116-GXXX Capacity Curves at 60 Hz



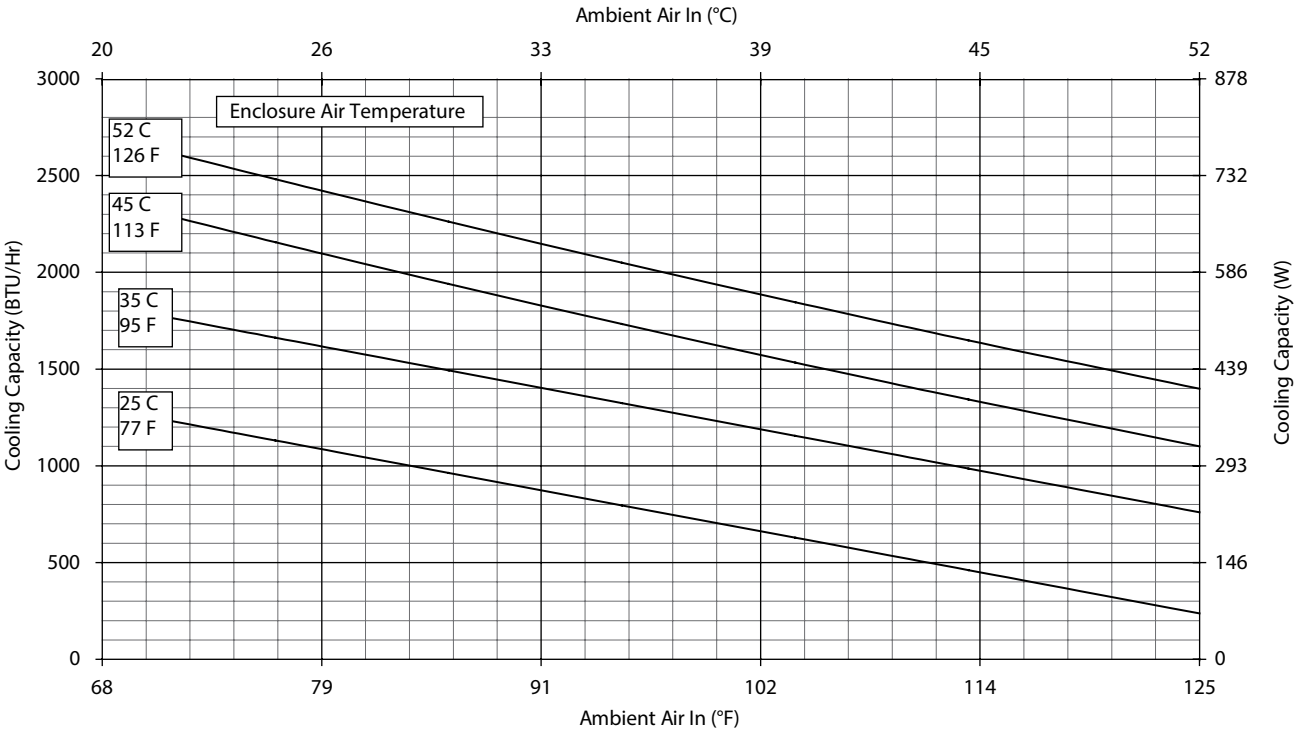
Performance Curves for N17 Models 1000/2000 BTU/Hr. (293/585 Watt)



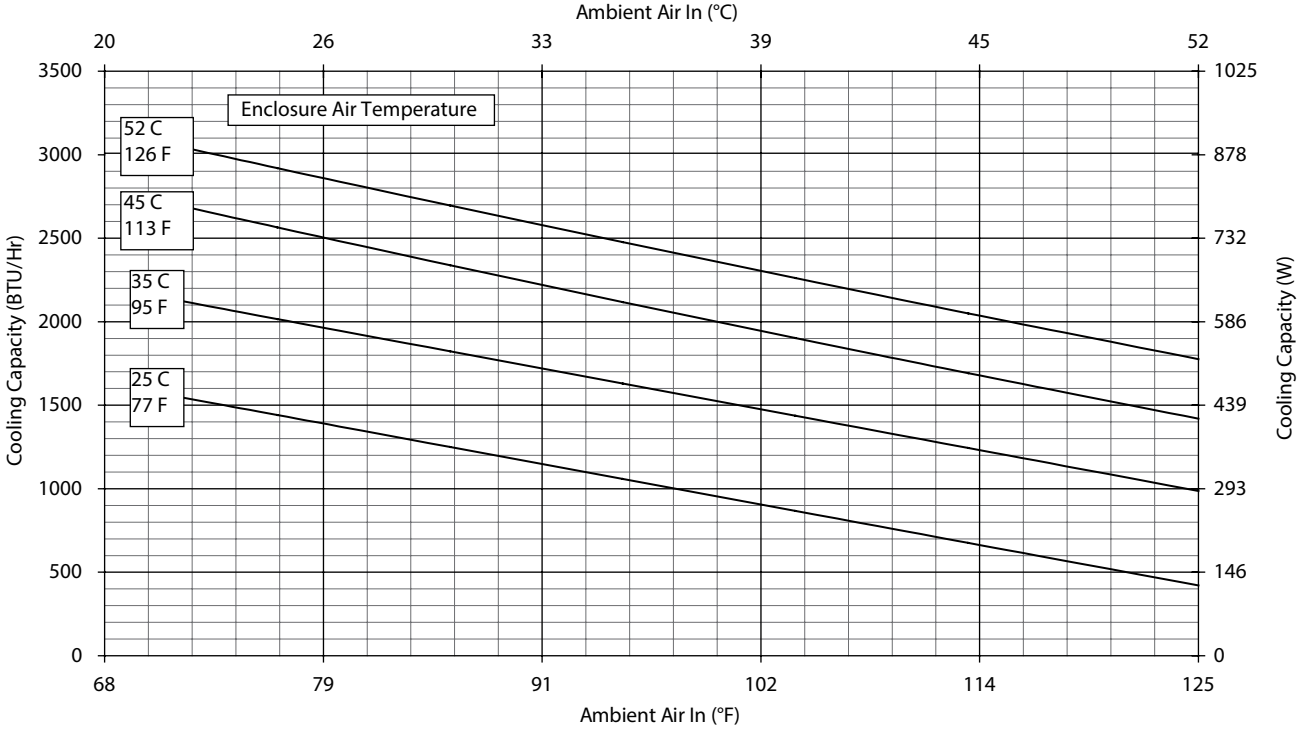


Performance Curves for N17 Models 1000 BTU/Hr. (293 Watt)

N17-0216-GXXX Capacity Curves at 50 Hz

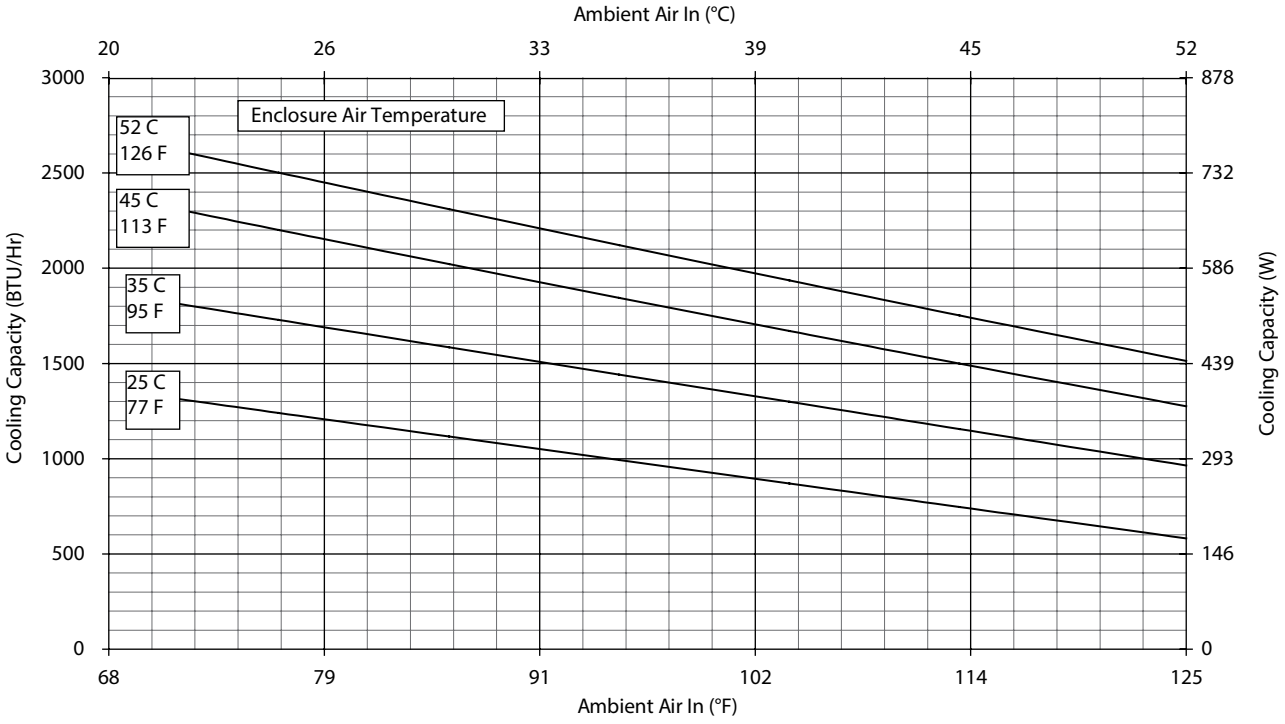


N17-0216-GXXX Capacity Curves at 60 Hz

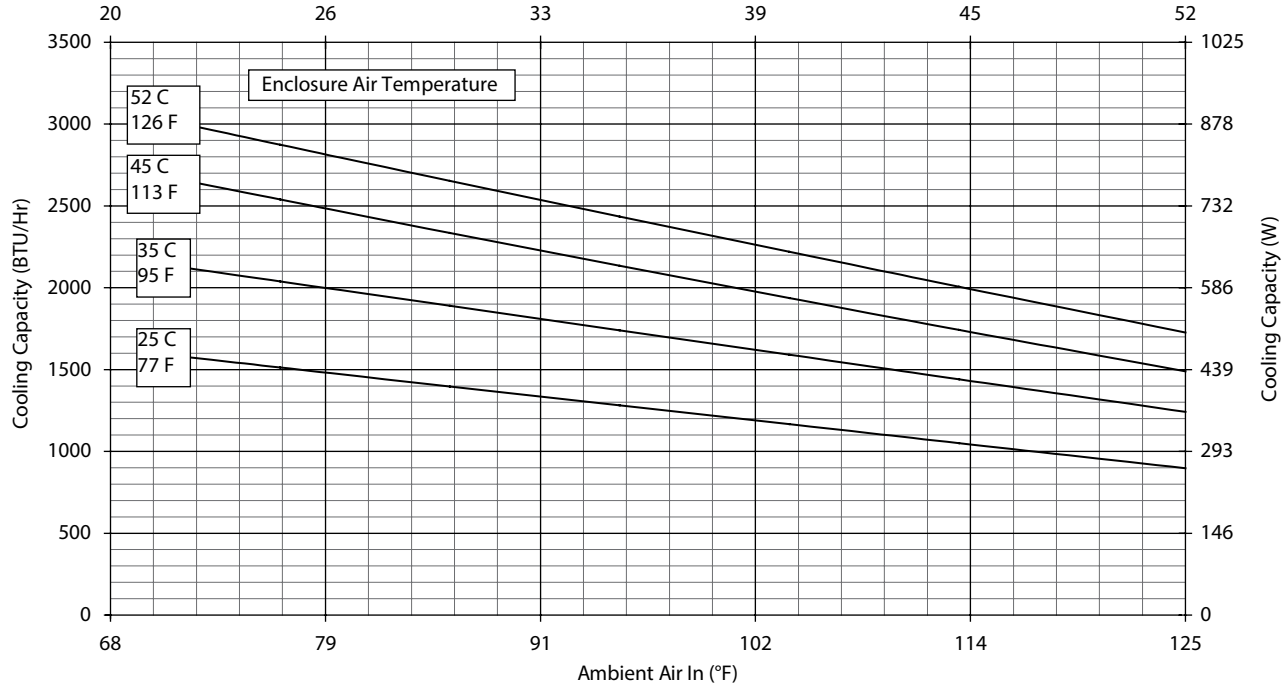


Performance Curves for N17 Models 1000/2000 BTU/Hr. (293/585 Watt)

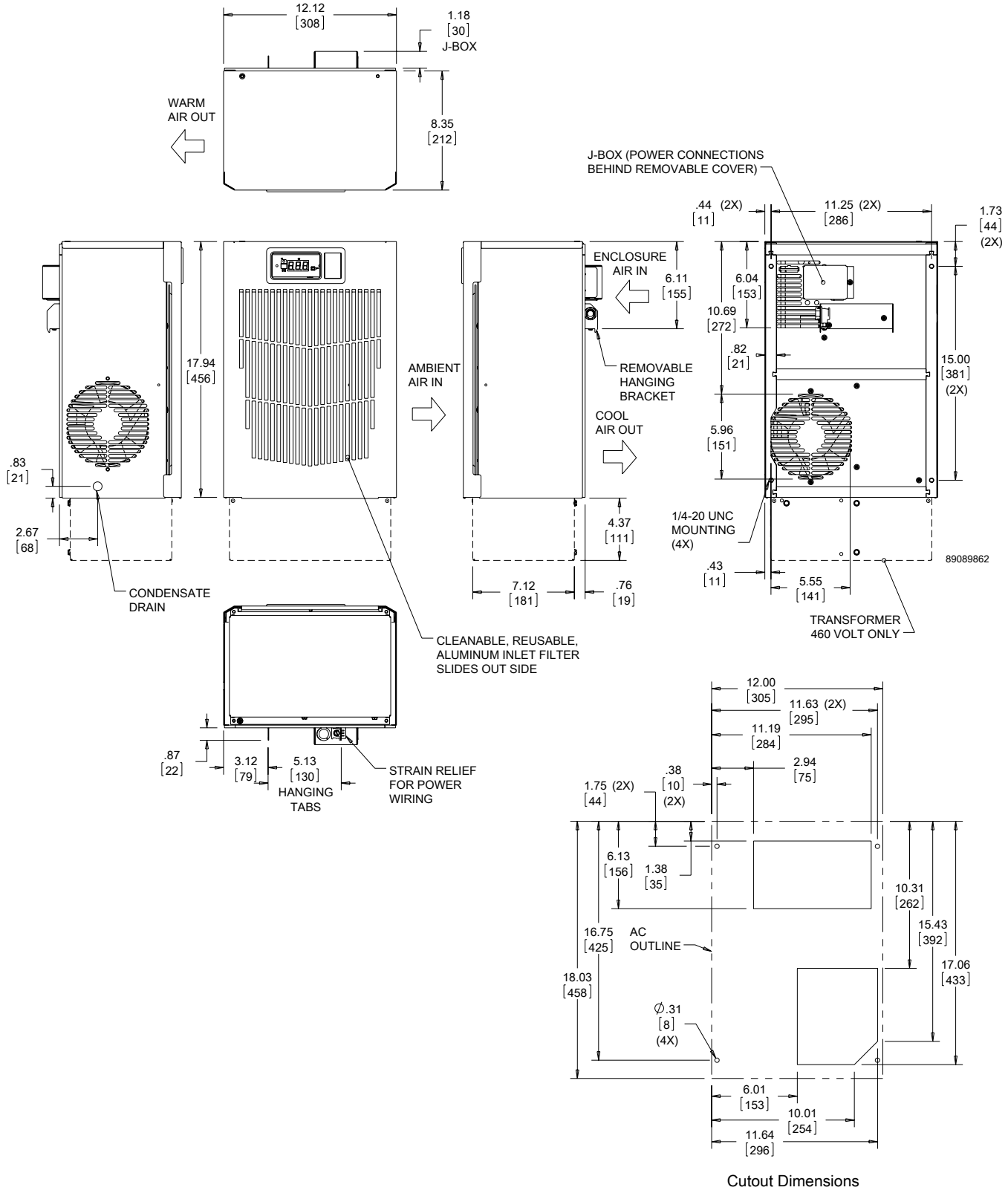
N17-02(2/4)6-GXXX Capacity Curves at 50 Hz



N17-02(2/4)6-GXXX Capacity Curves at 60 Hz



N17 Models 1000/1800 BTU/Hr. (300/527 Watt)



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 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

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EtherNet/IP ODVA PI PROFIBUS • PROFINET

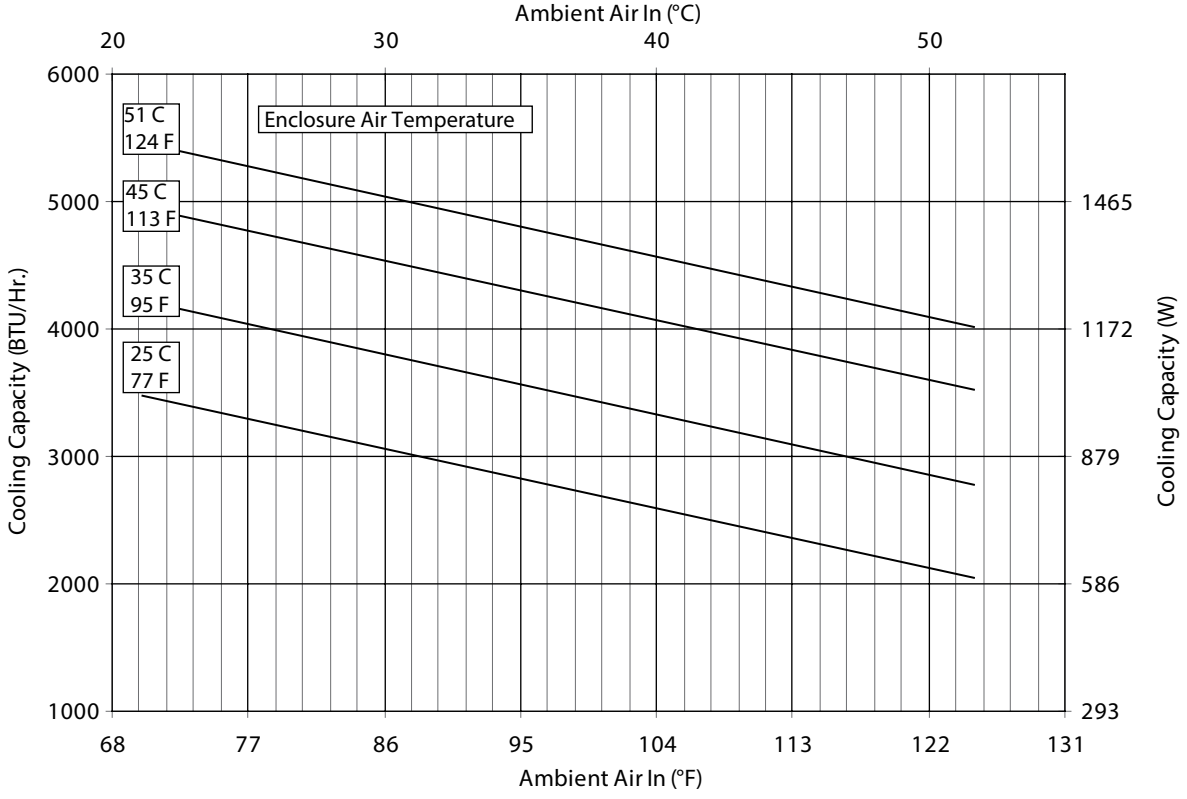
Performance Data **NHZ28 4000 BTU/Hr. (1172 Watt)**

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

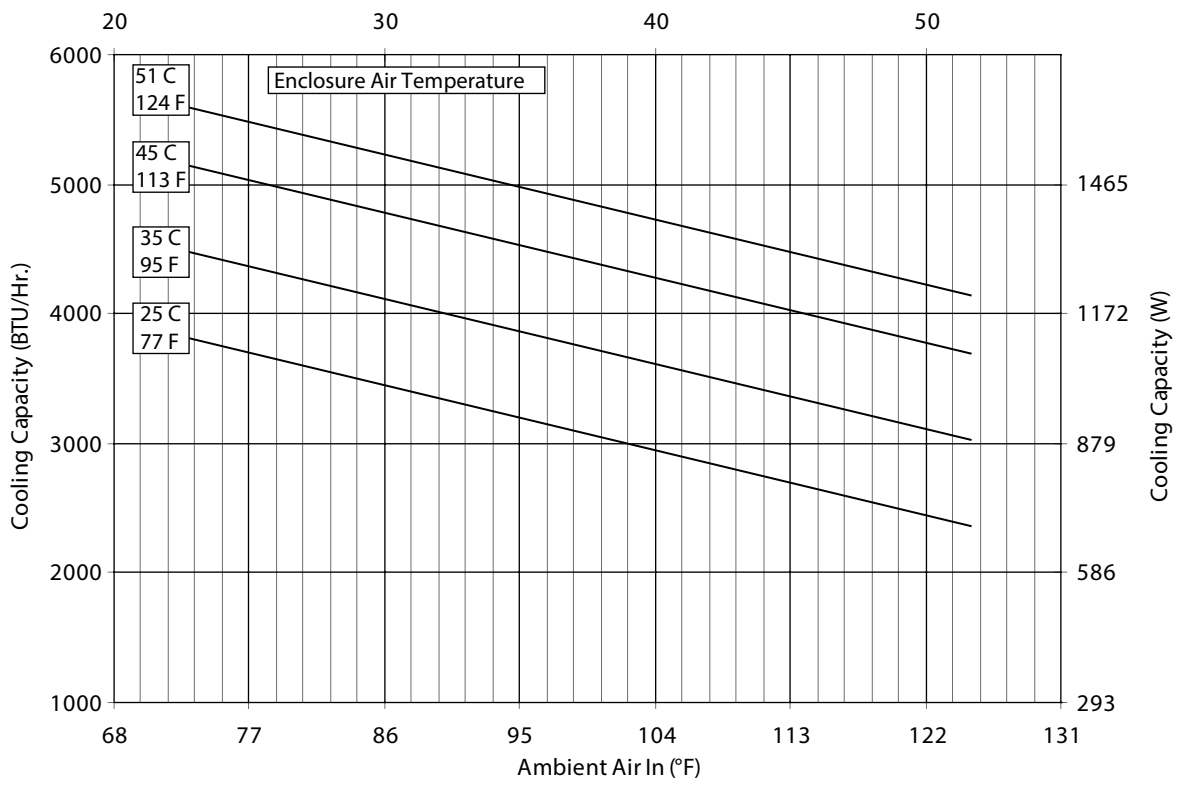
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)

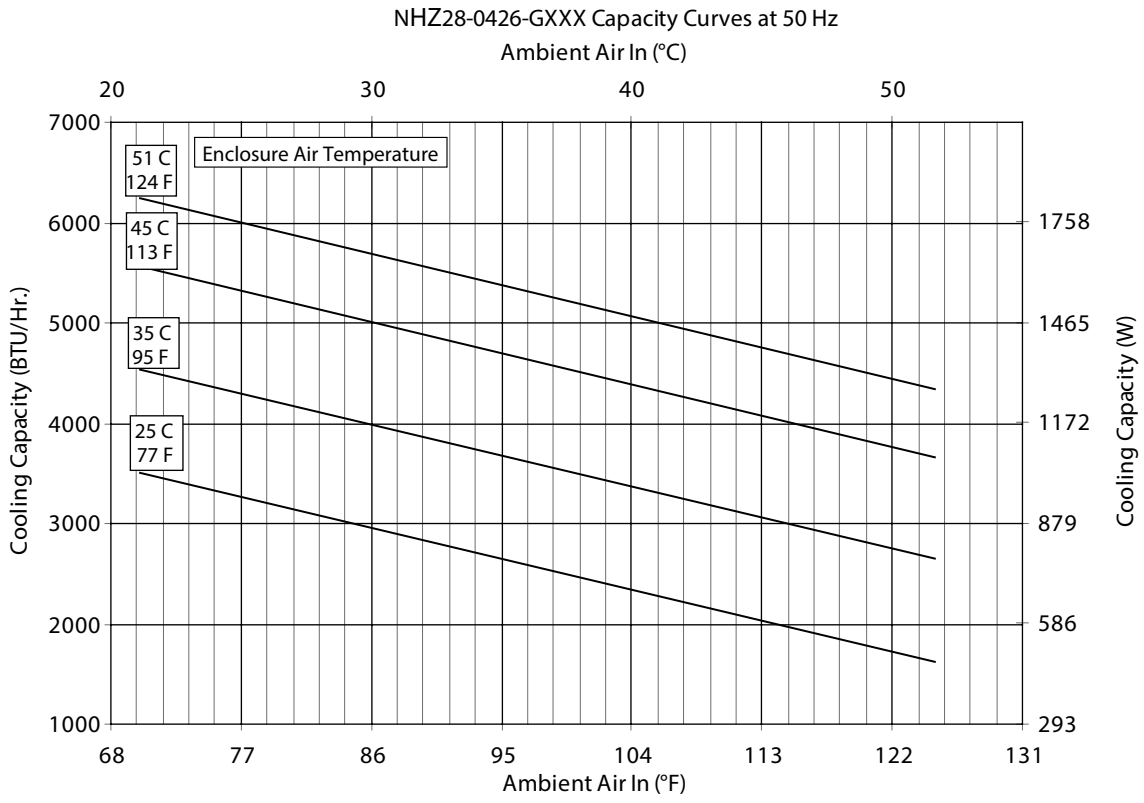
NHZ28-0416-GXXX Capacity Curves at 50 Hz

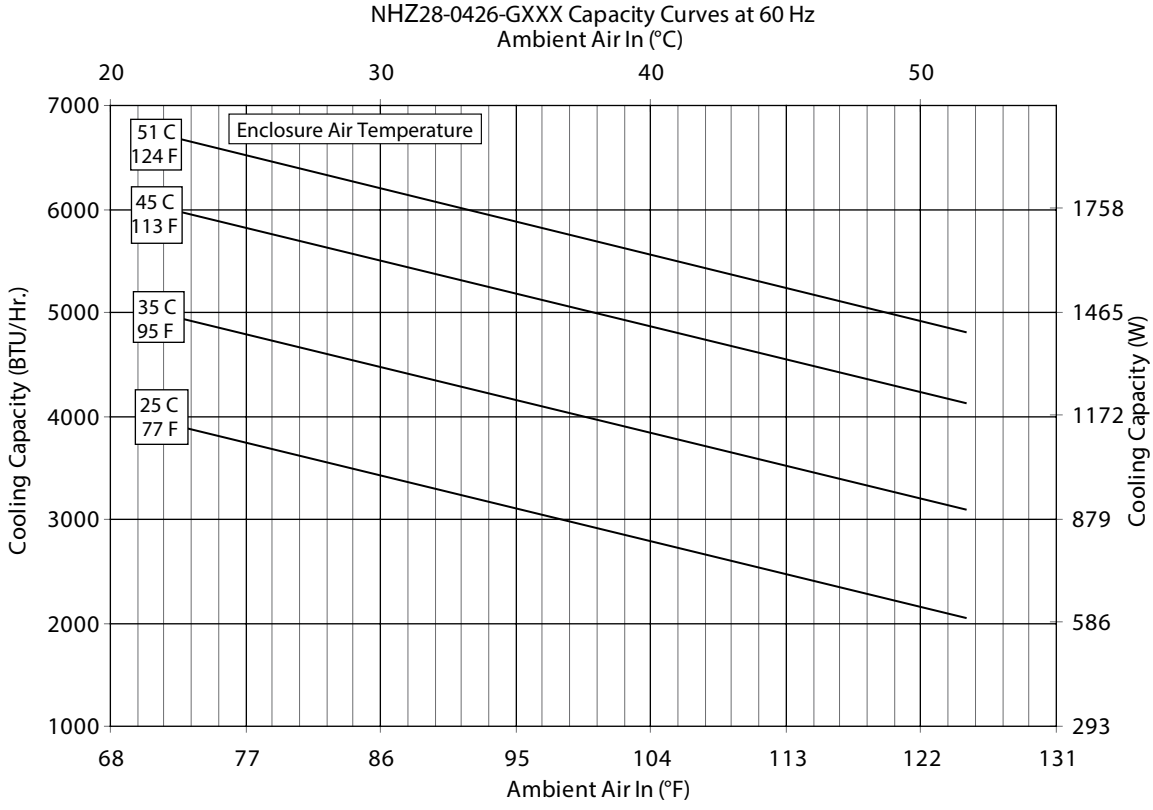


NHZ28-0416-GXXX Capacity Curves at 60 Hz

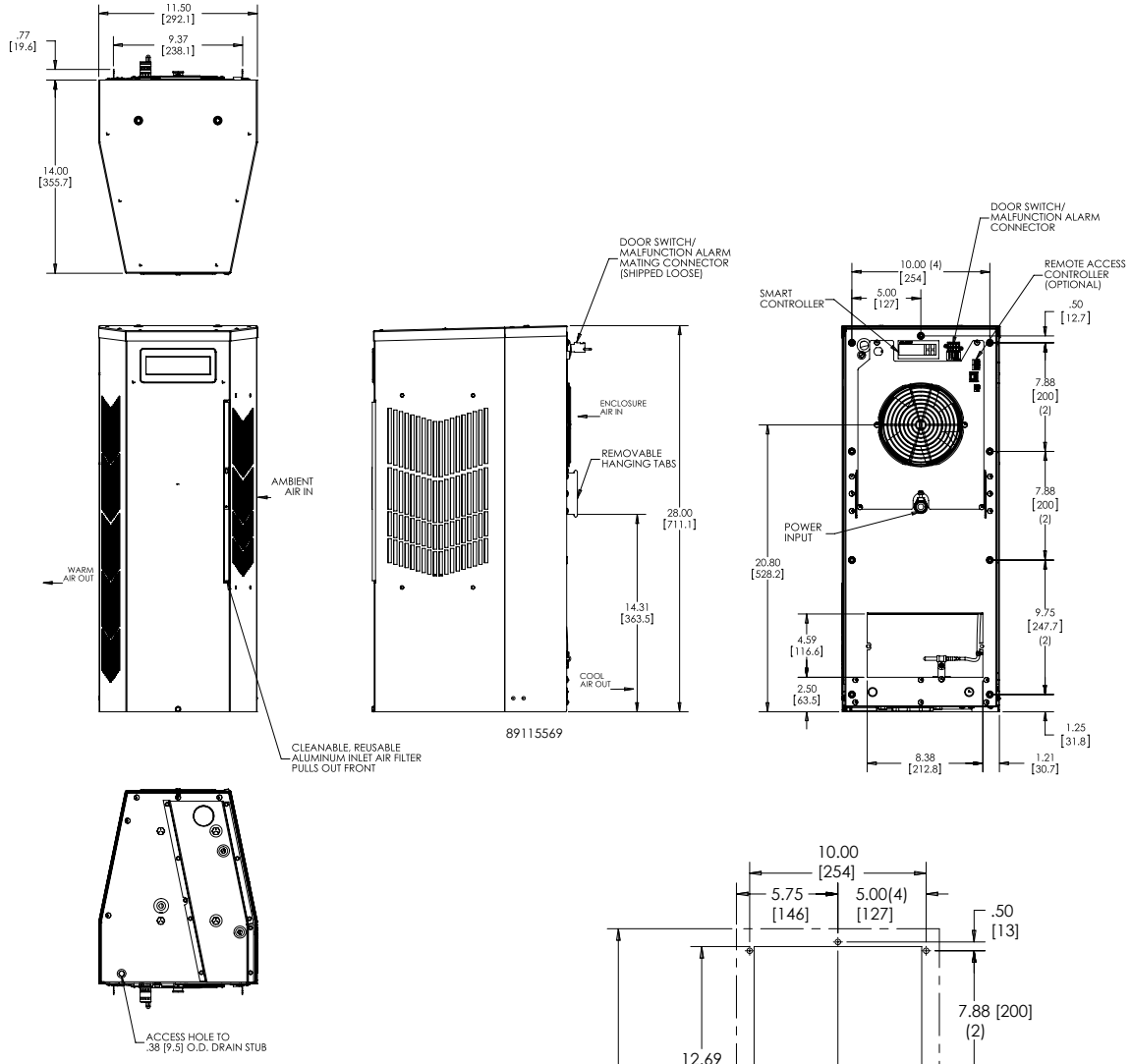


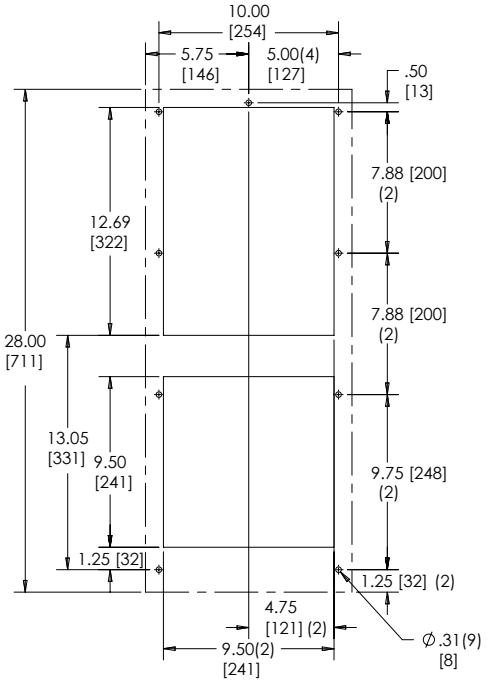
Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)





NHZ28 Models 4000 BTU/Hr. (1172 Watt)





Cutout Dimensions

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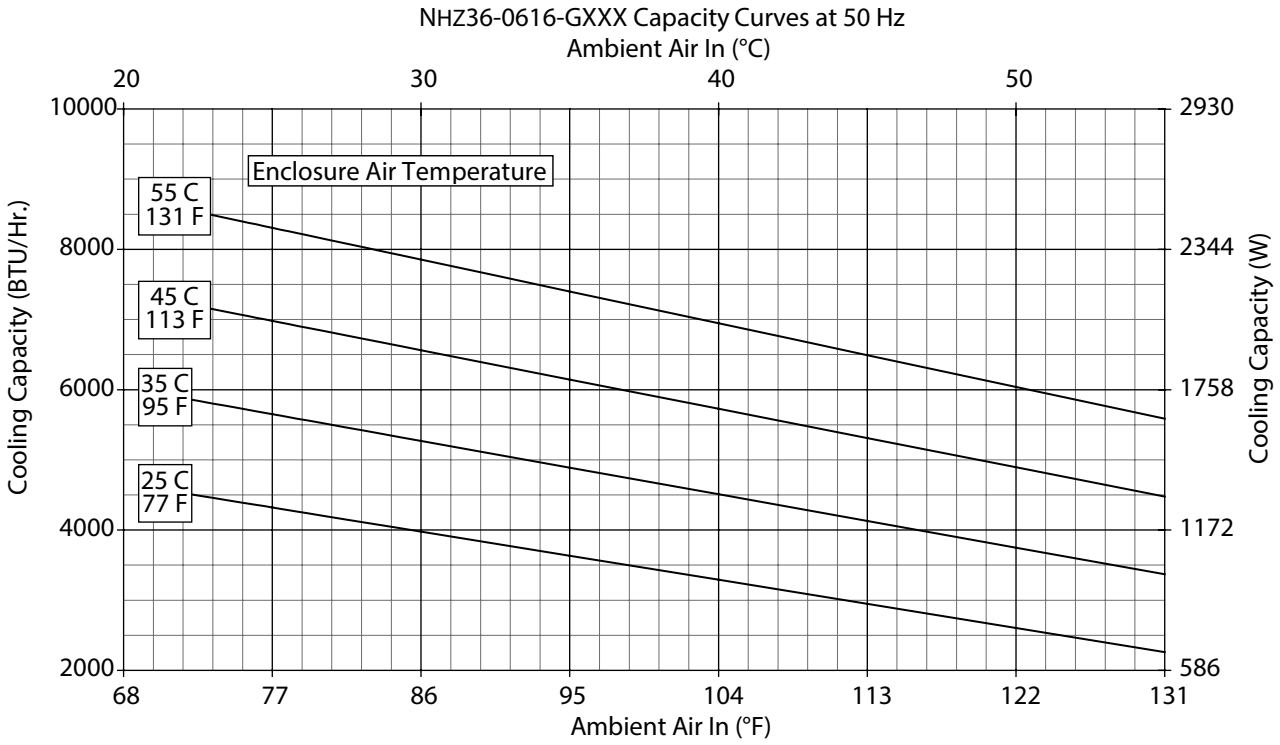
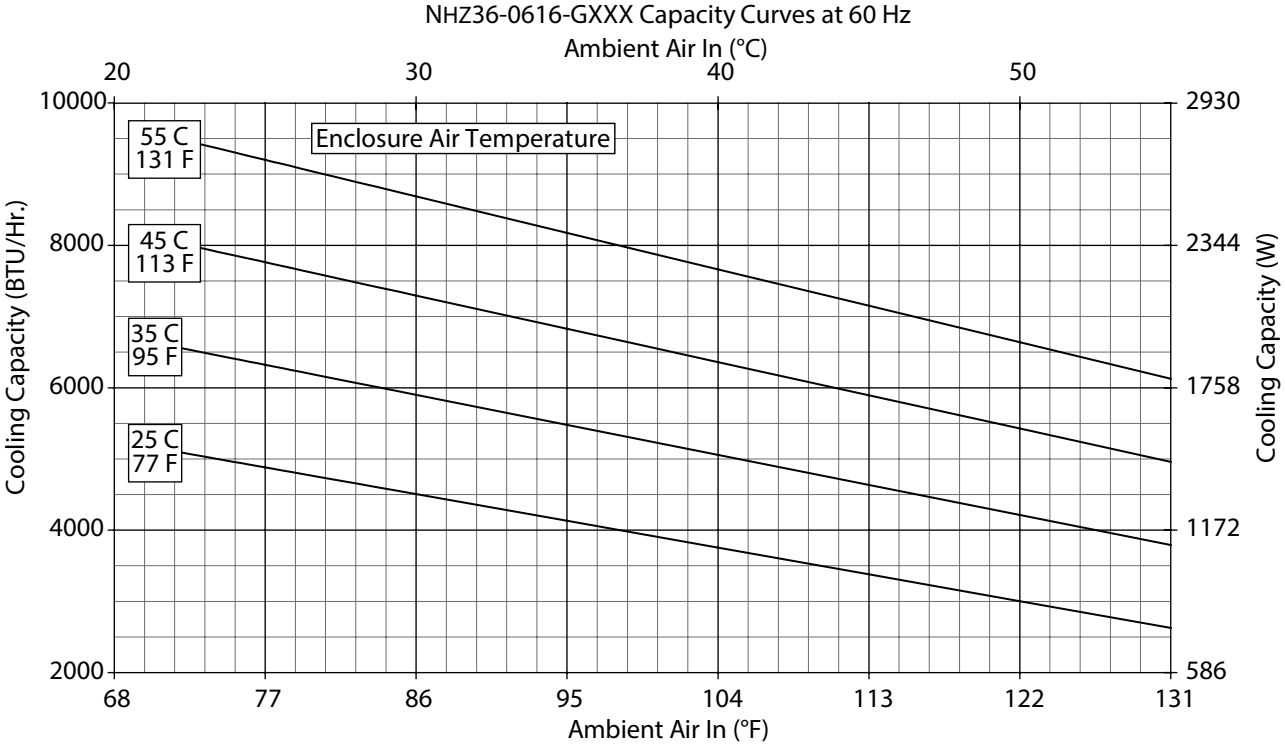
Performance Data **NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)**

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

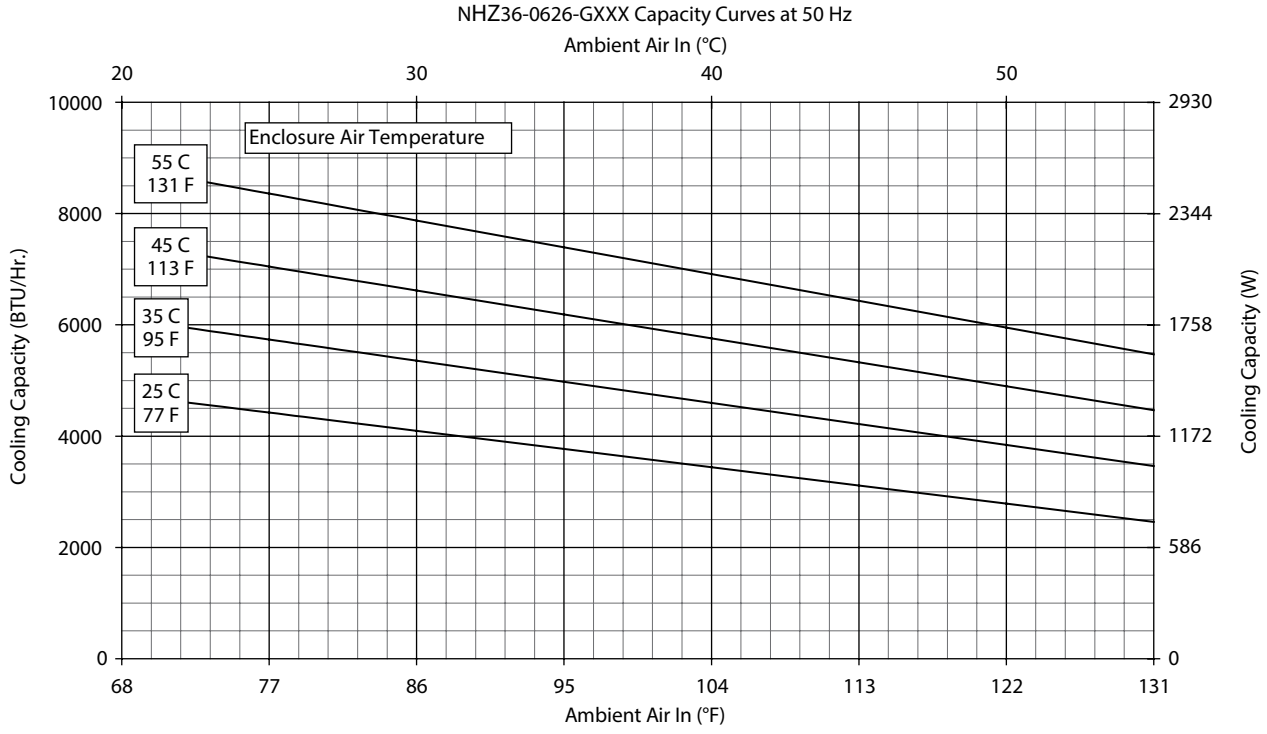
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

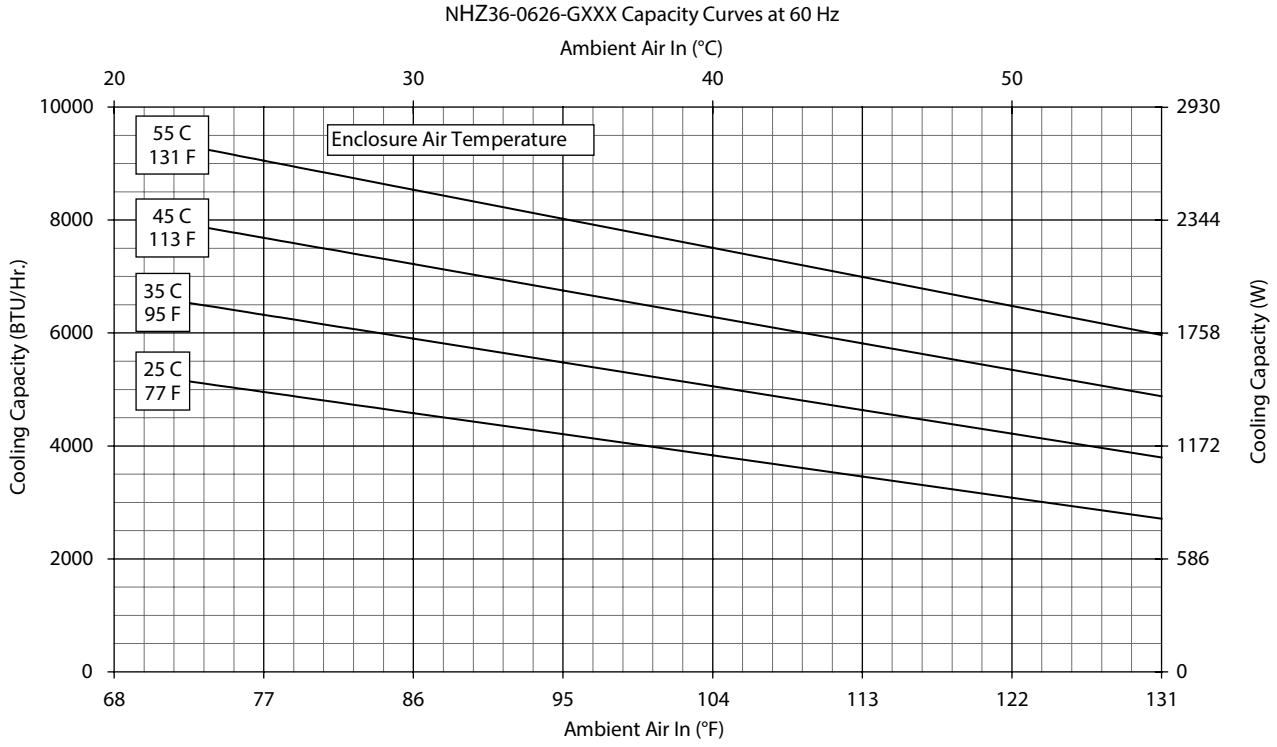
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)





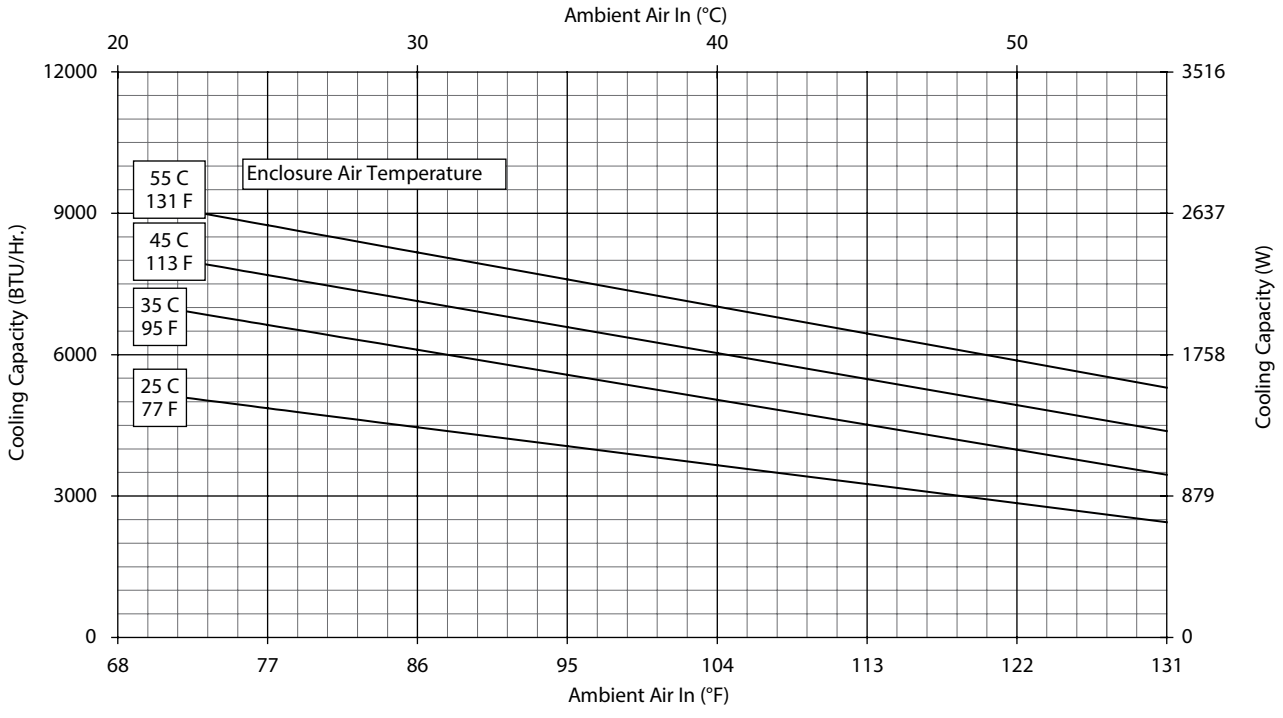
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)



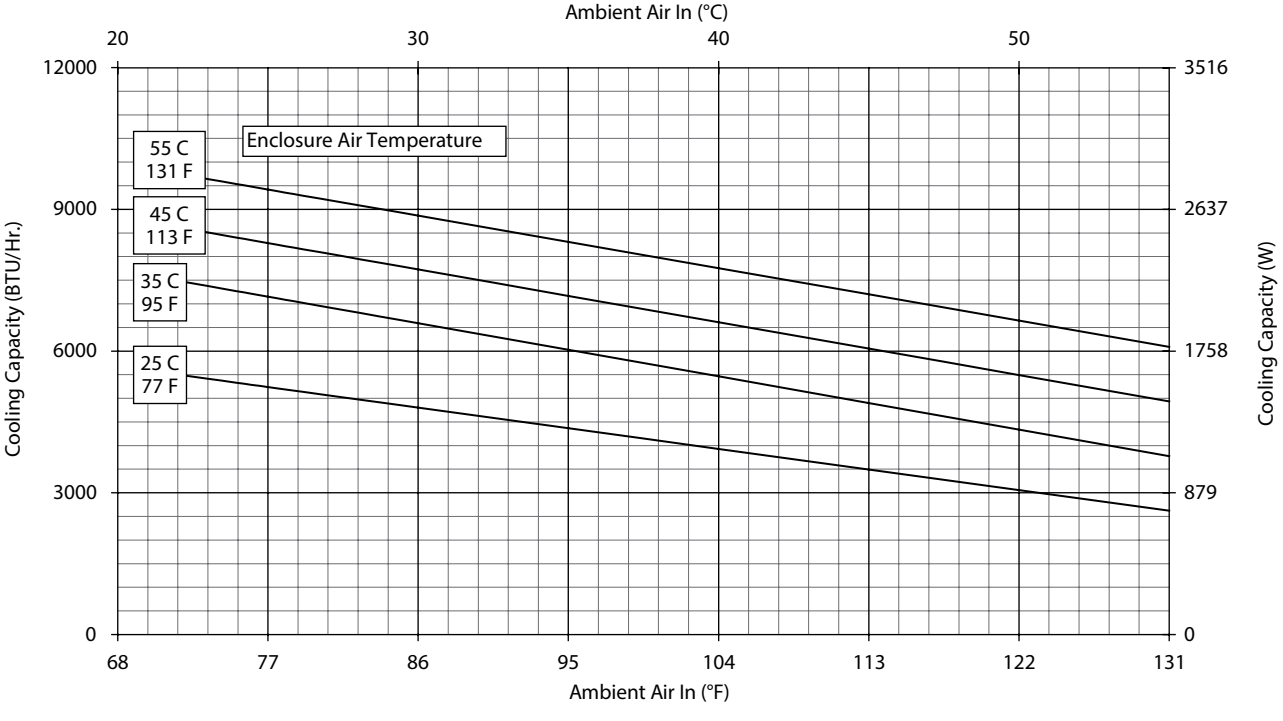


Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

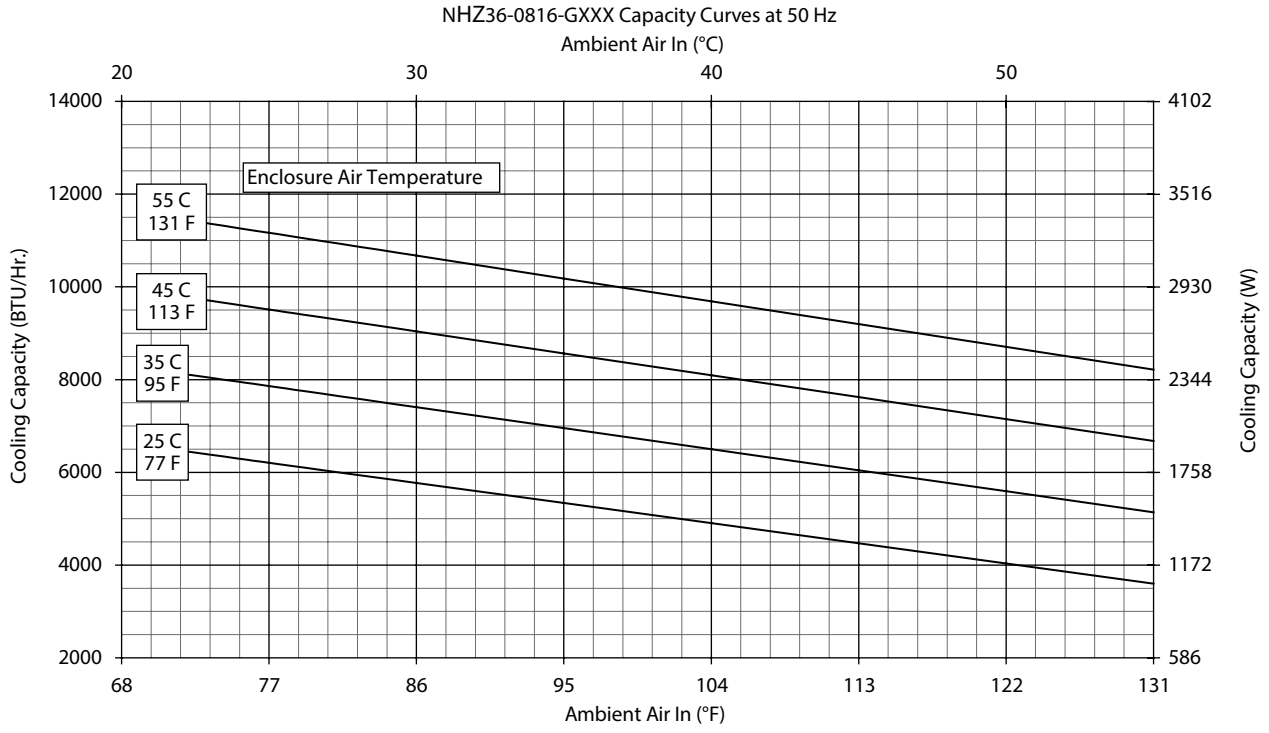
NHZ36-0646-GXXX Capacity Curves at 50 Hz

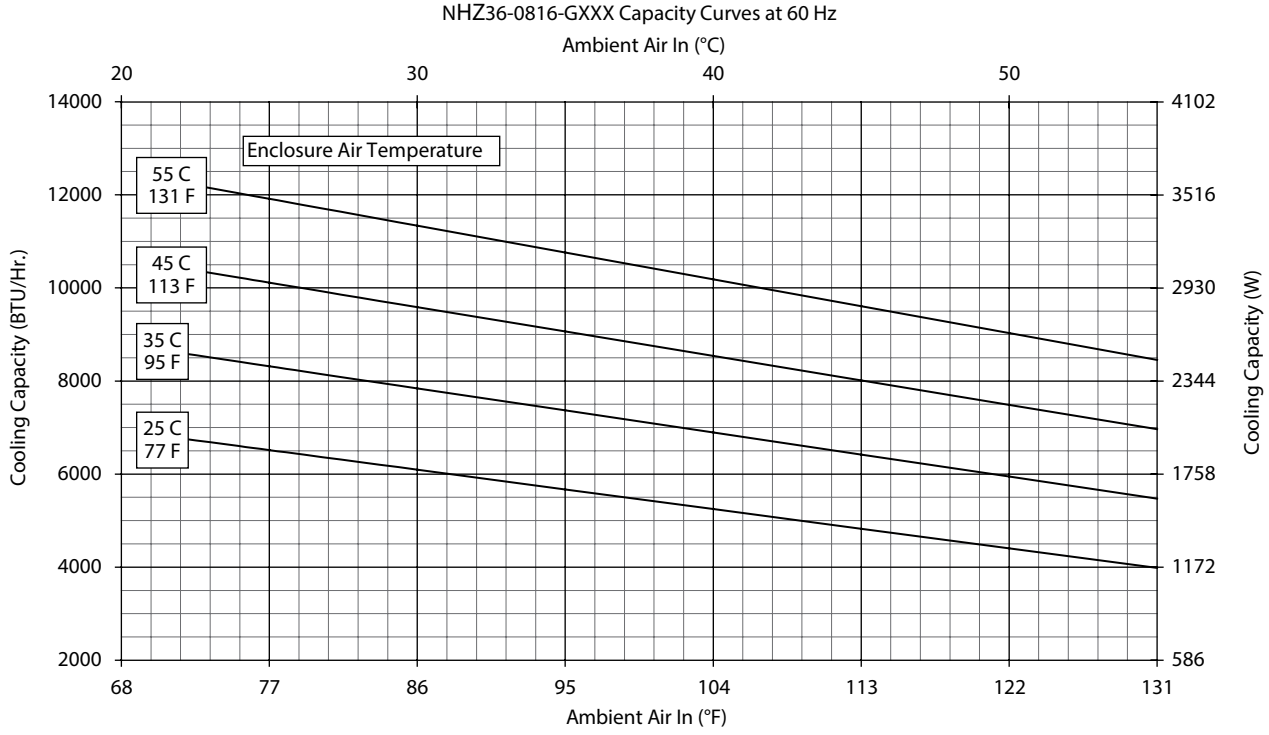


NHZ36-0646-GXXX Capacity Curves at 60 Hz

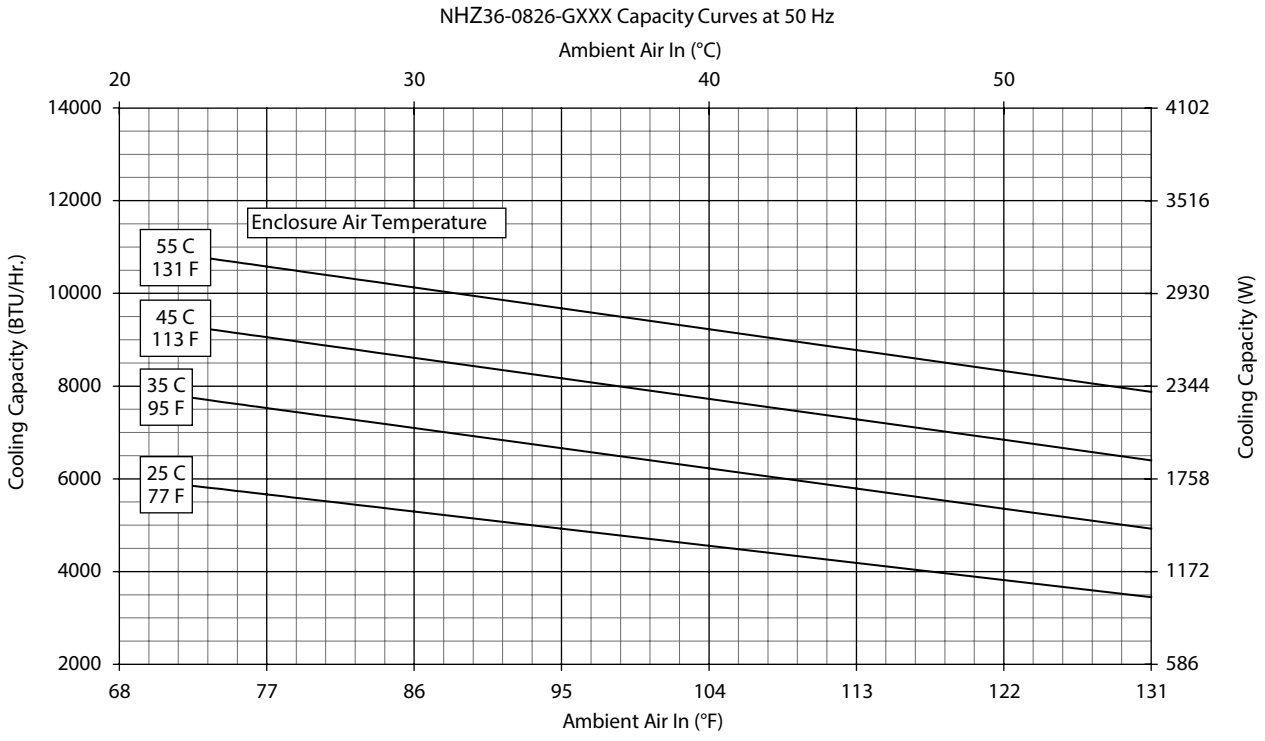


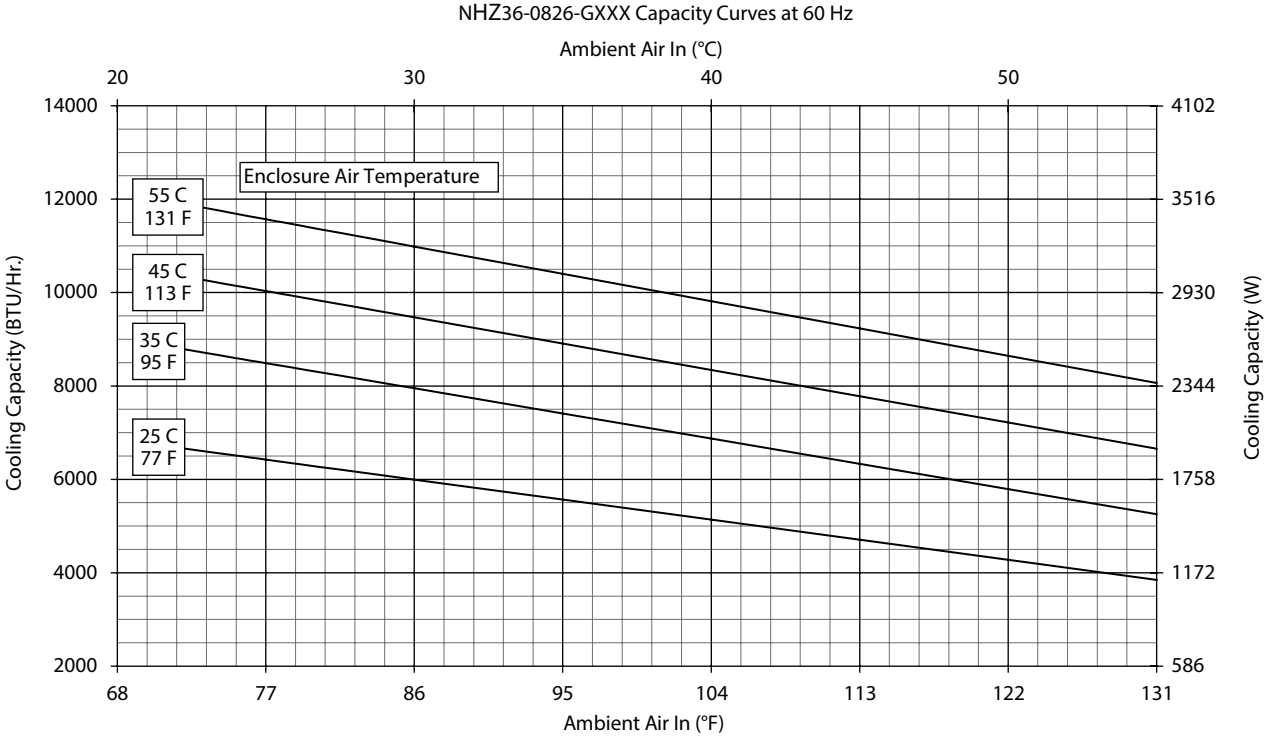
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



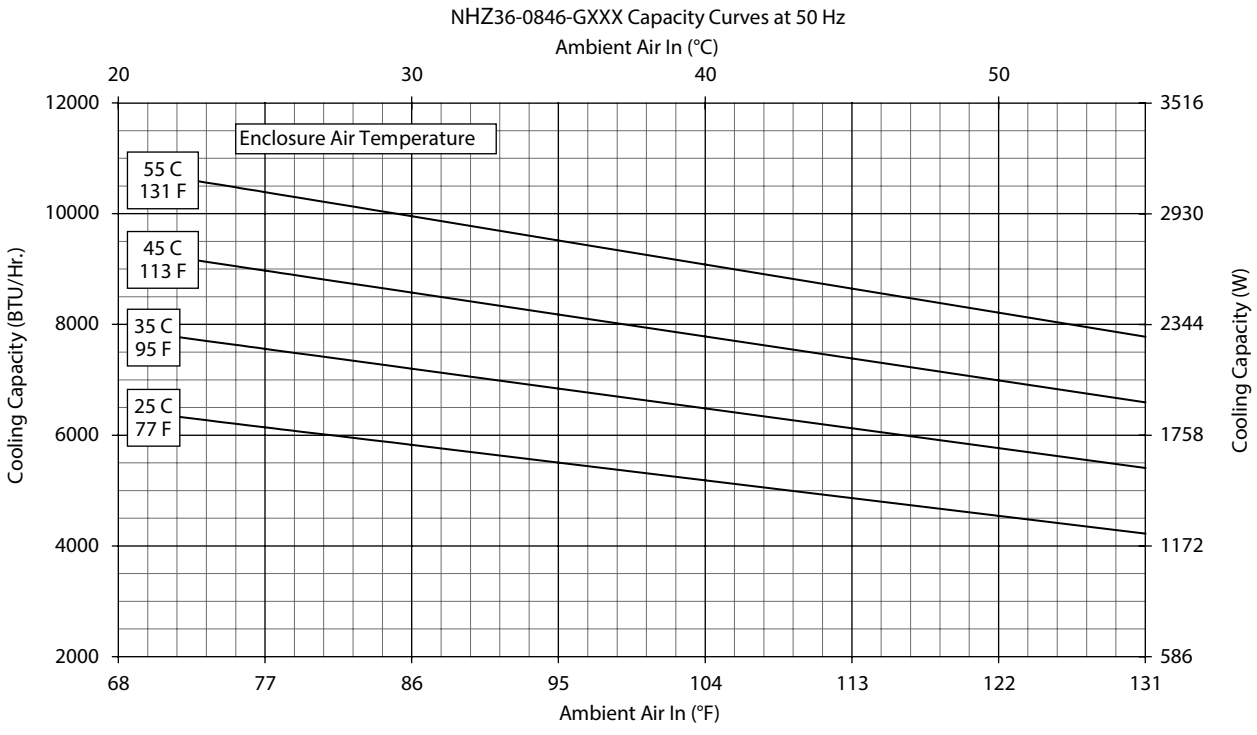


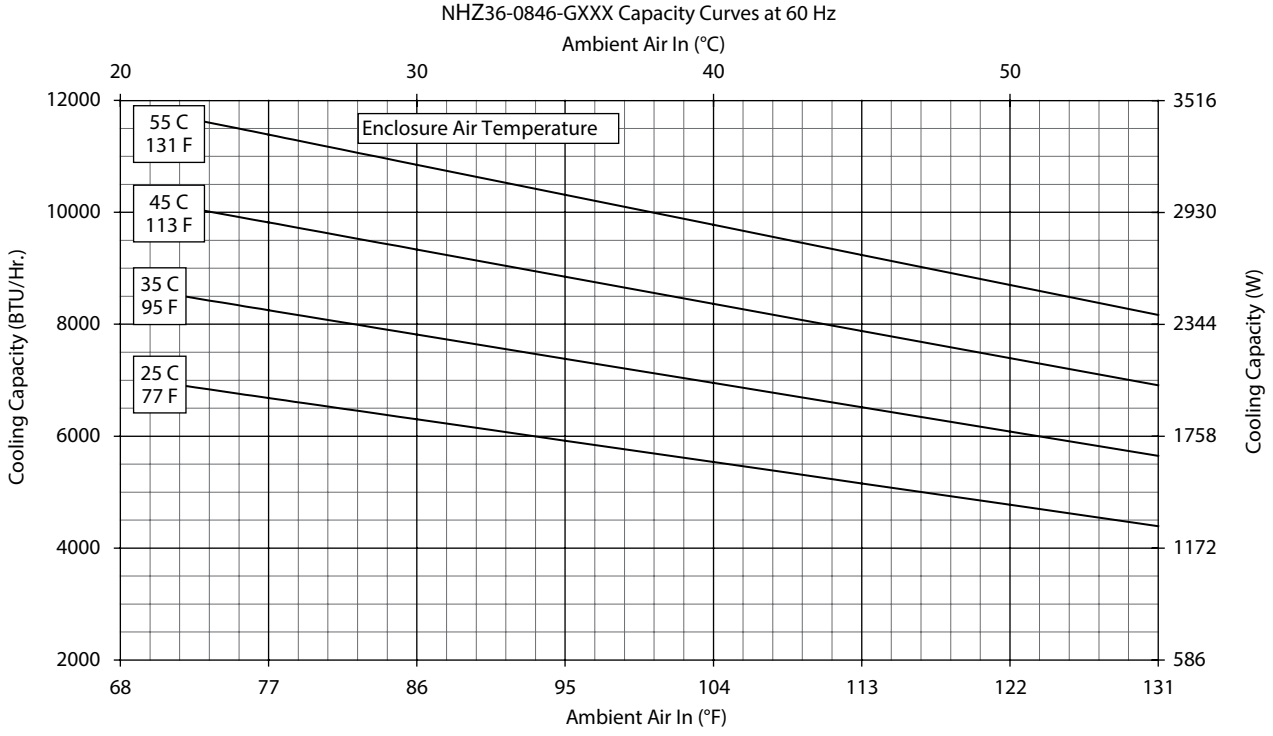
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



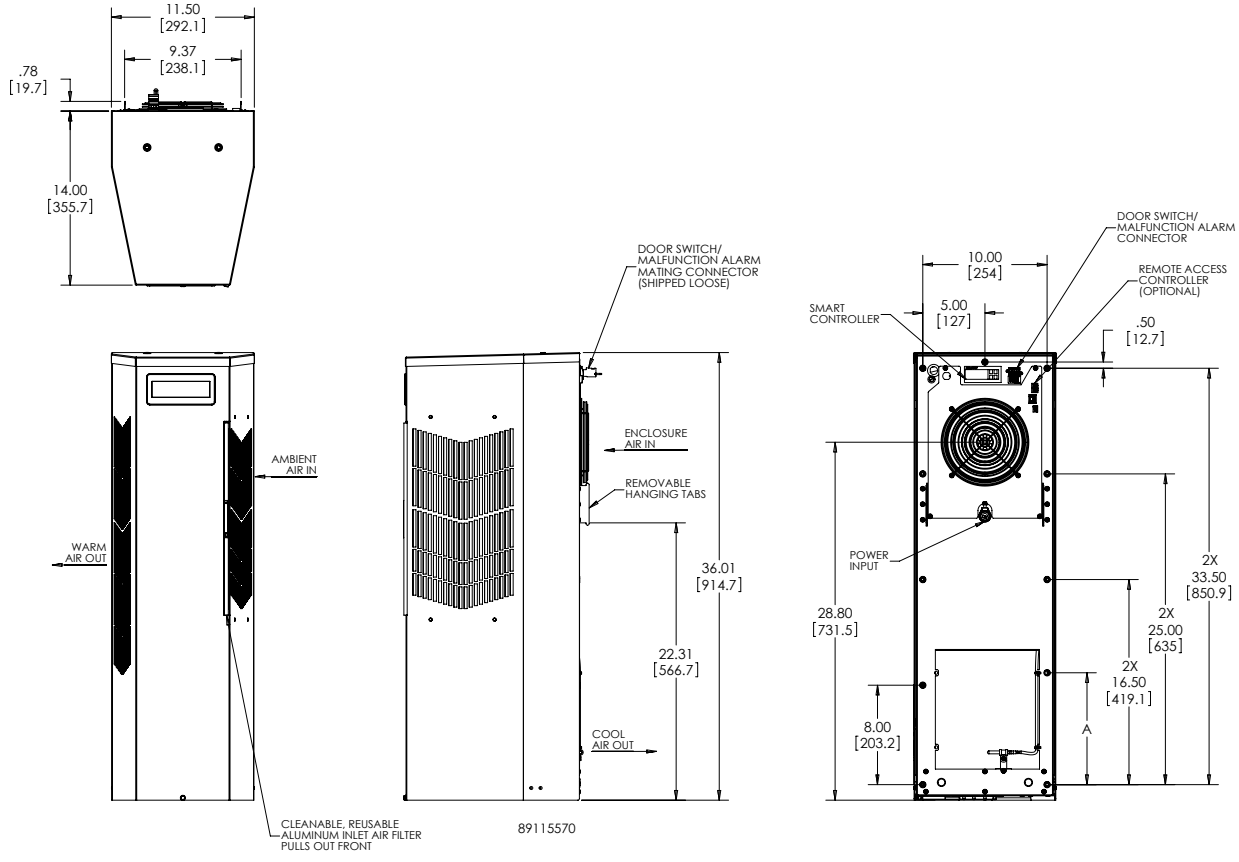


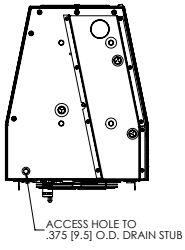
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)

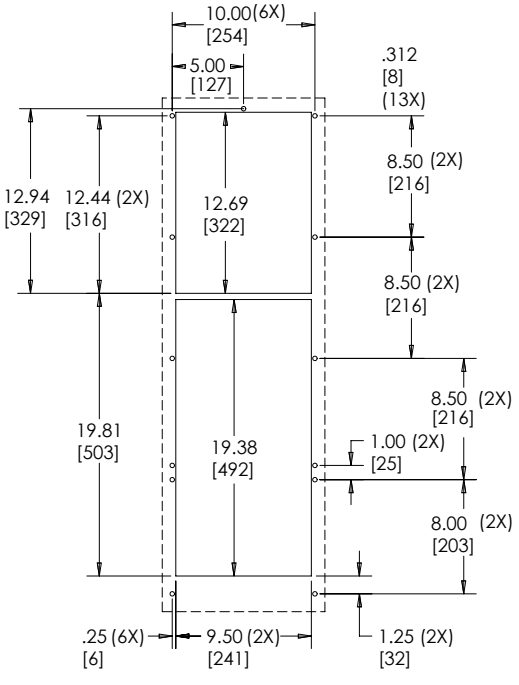




NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)







Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

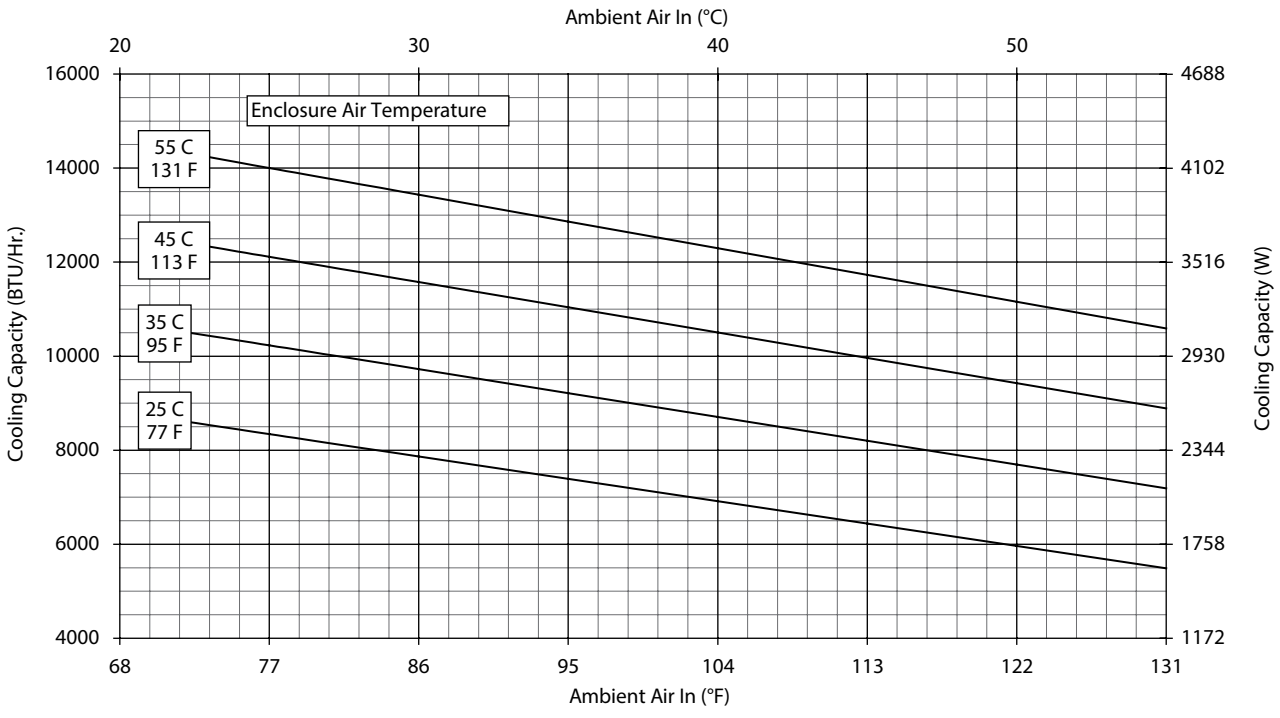
Performance Data **NHZ43 11000 BTU/Hr. (3223 Watt)**

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

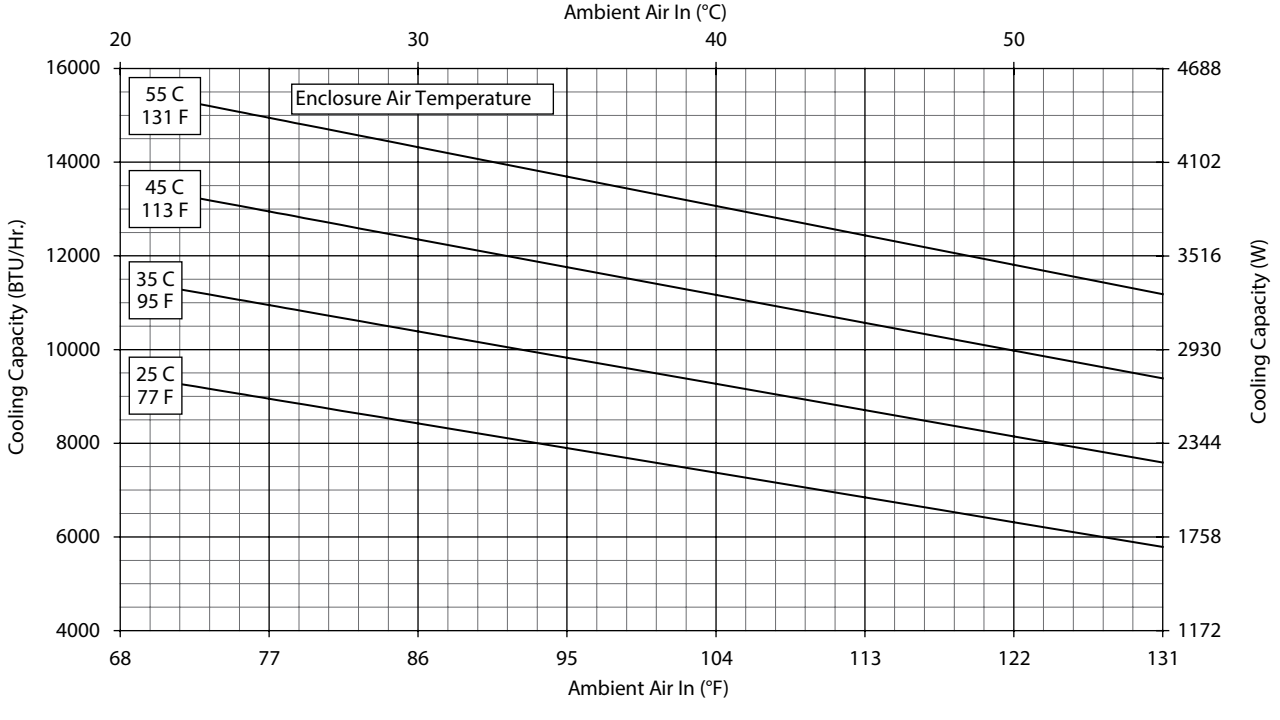
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)

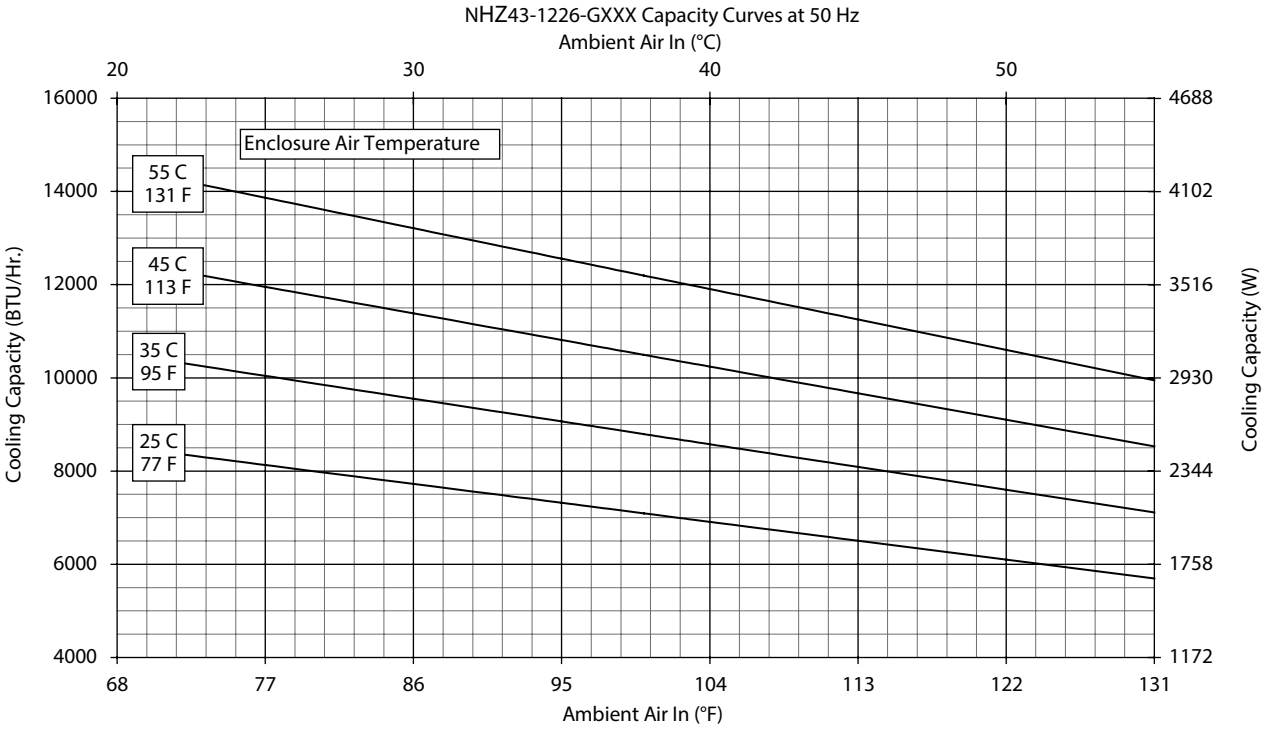
NHZ43-1216-GXXX Capacity Curves at 50 Hz

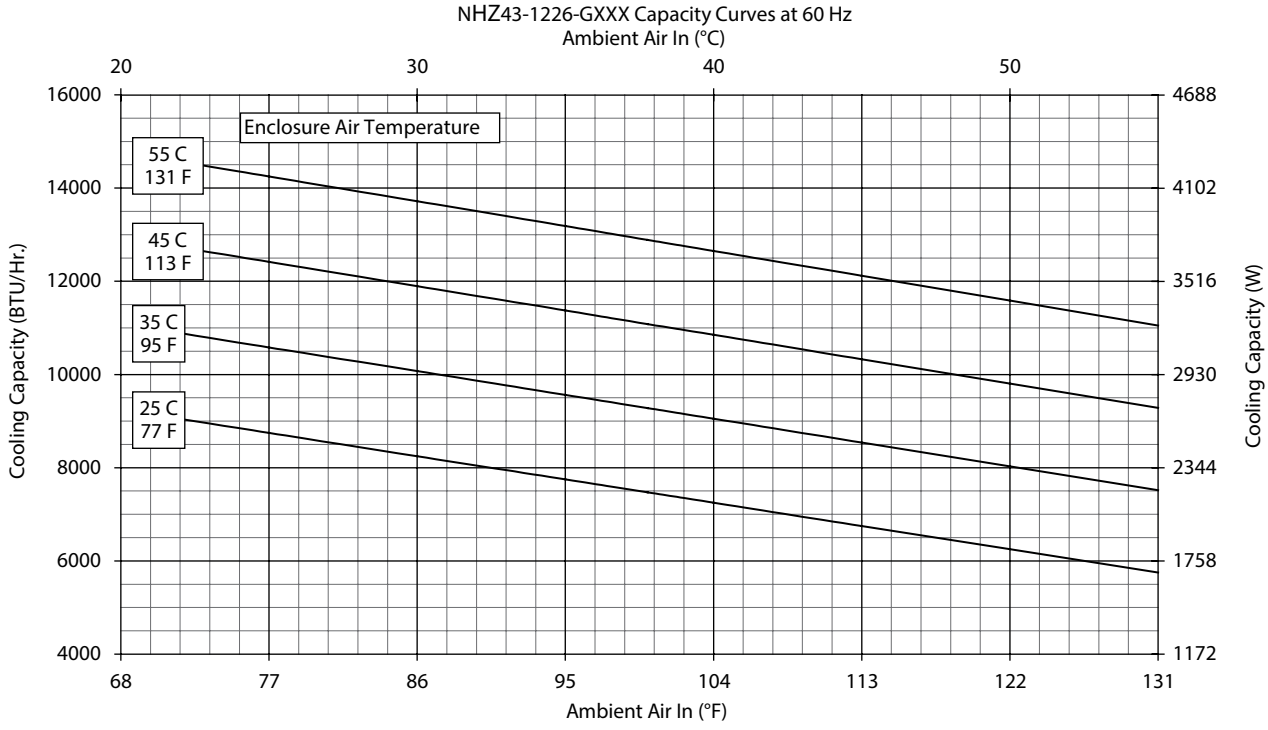


NHZ43-1216-GXXX Capacity Curves at 60 Hz

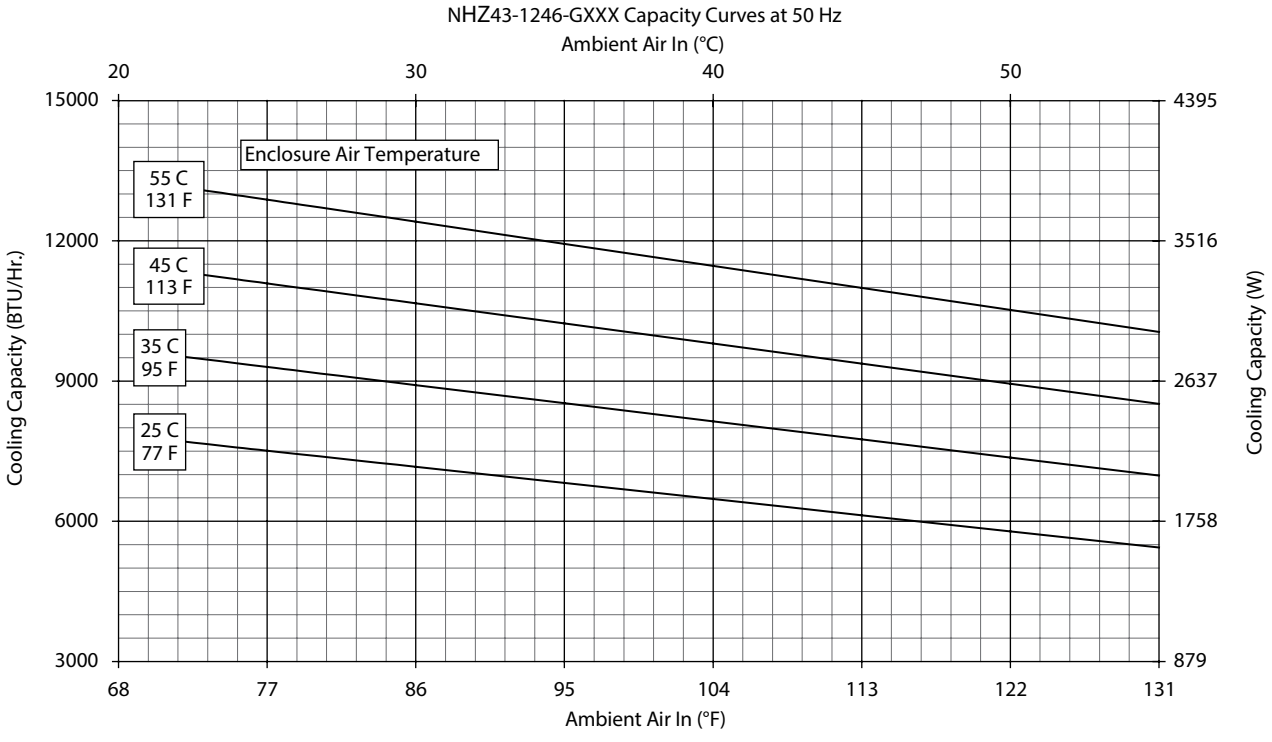


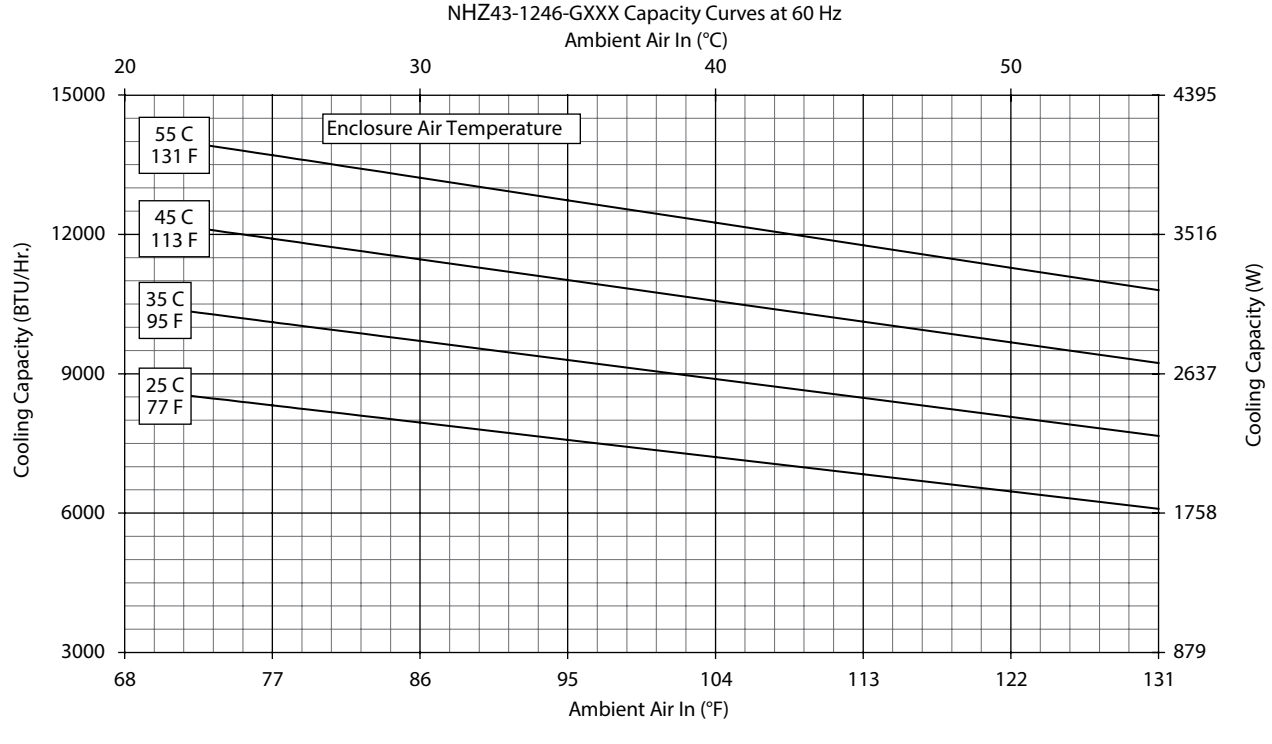
Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)



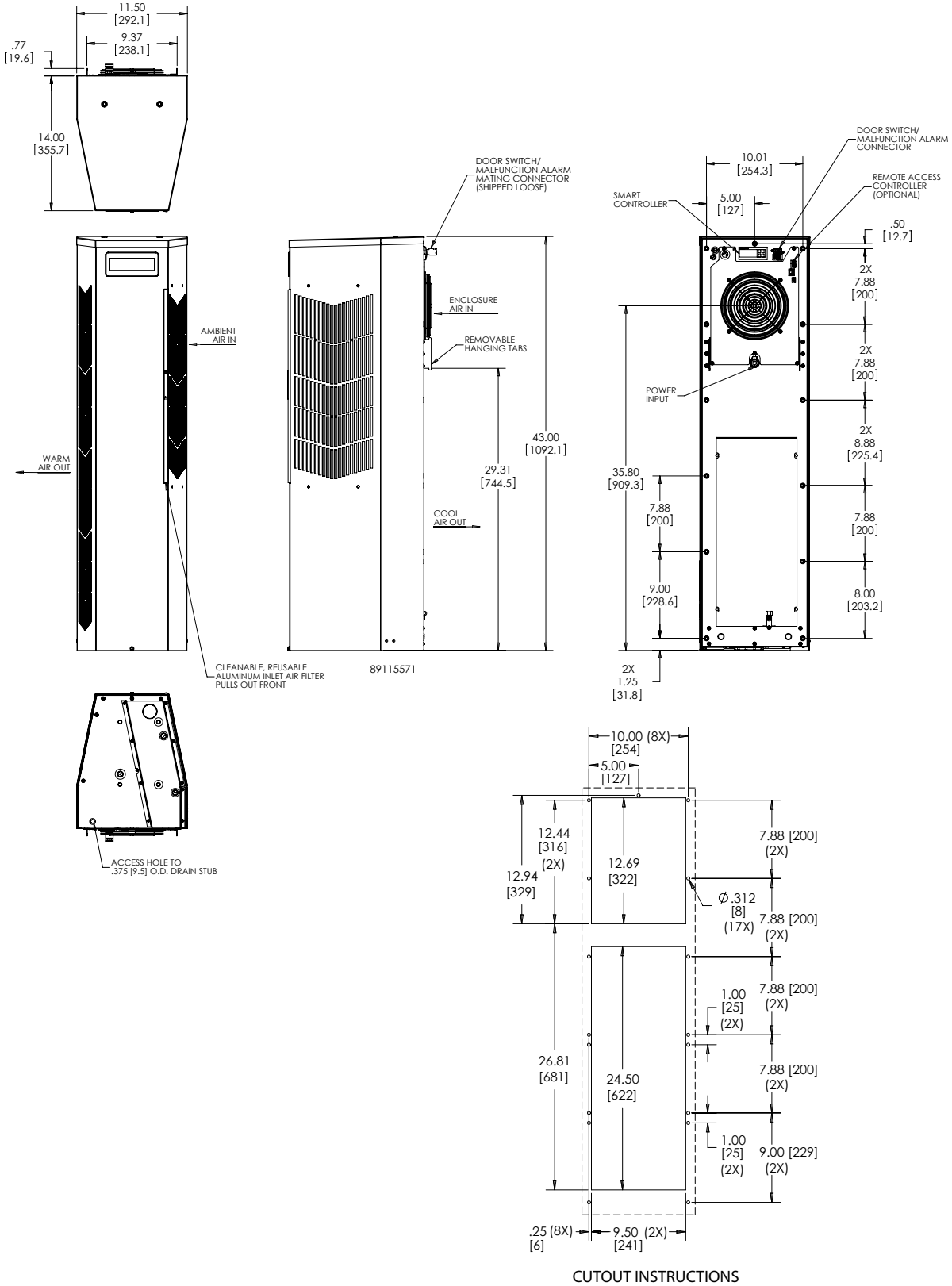


Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)





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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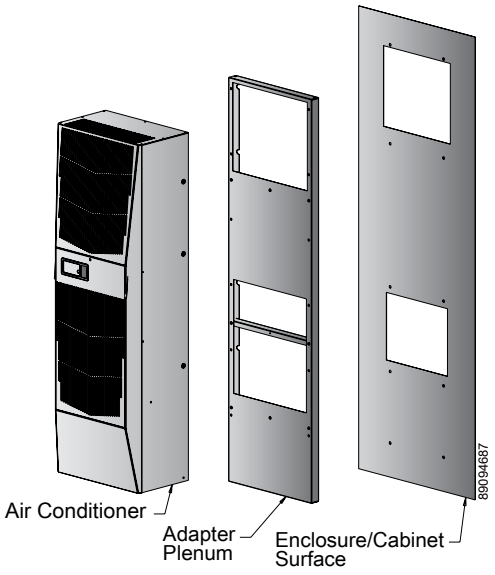
EASY SWAP ADAPTOR PLENUMS FOR AIR CONDITIONERS



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

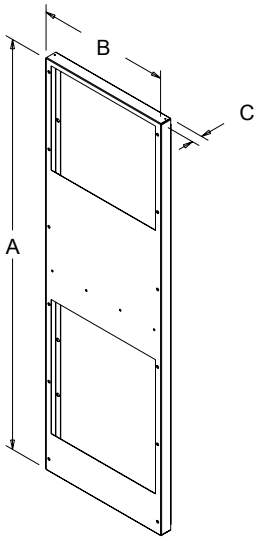
- No modification of the enclosure required - designed to match the enclosure cutout and mounting holes of the air conditioner being replaced
- Plenum design allows for optimum air flow (vs. a flat plate that can block the air intake and air outtake left by the older air conditioner)
- Gasket included

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

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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.

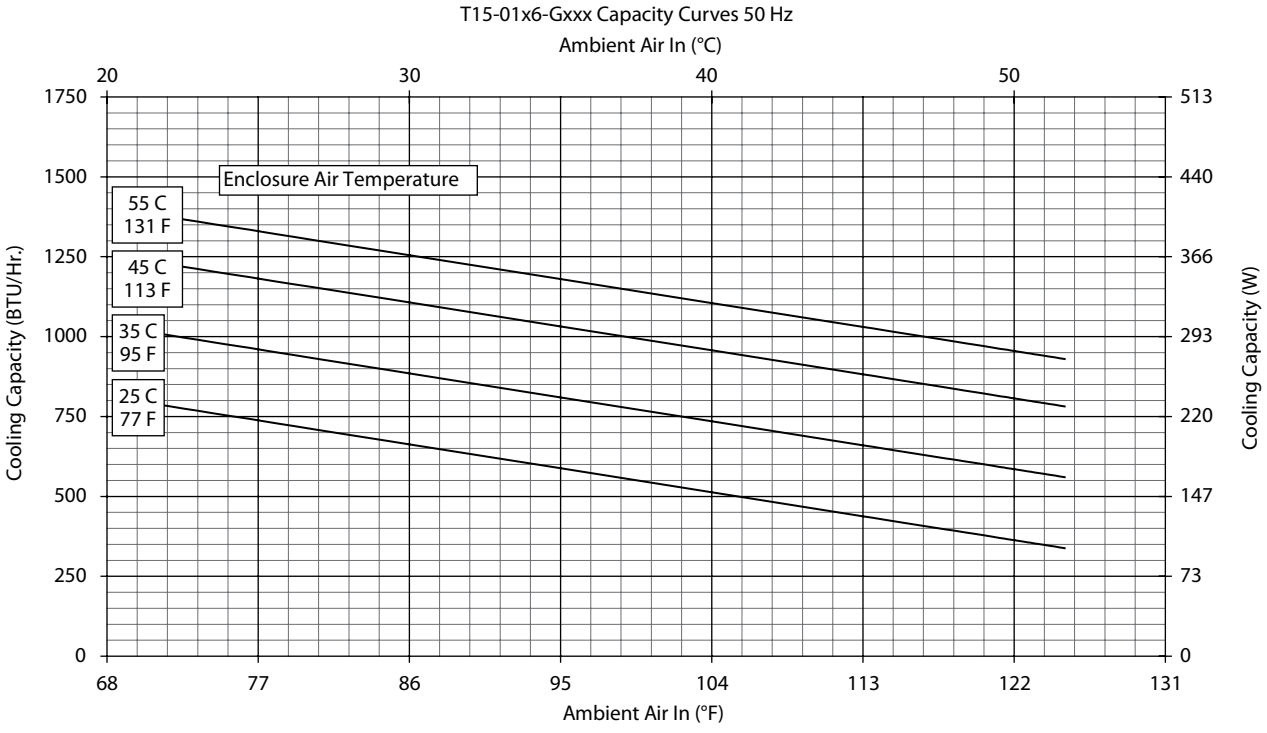
NOTES

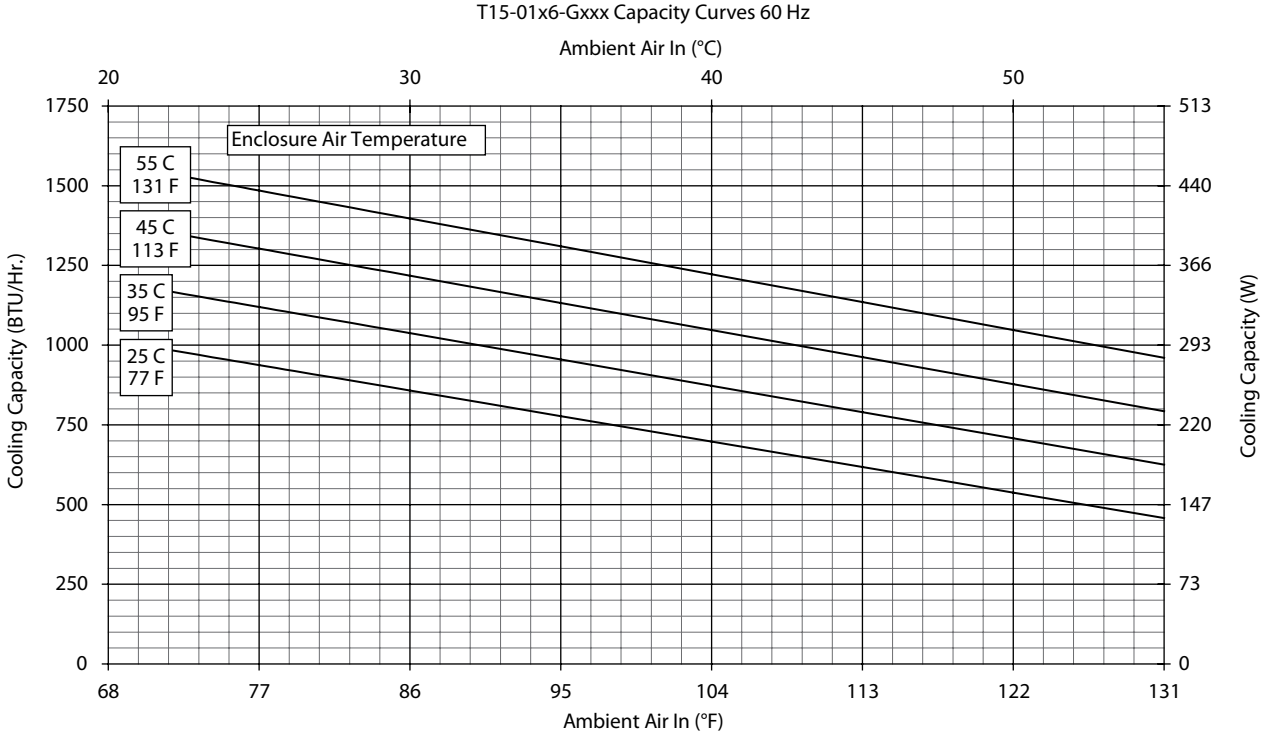
Visit **nVent.com/HOFFMAN** to download 2D and 3D CAD drawings into the overall design of your electrical system.

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	

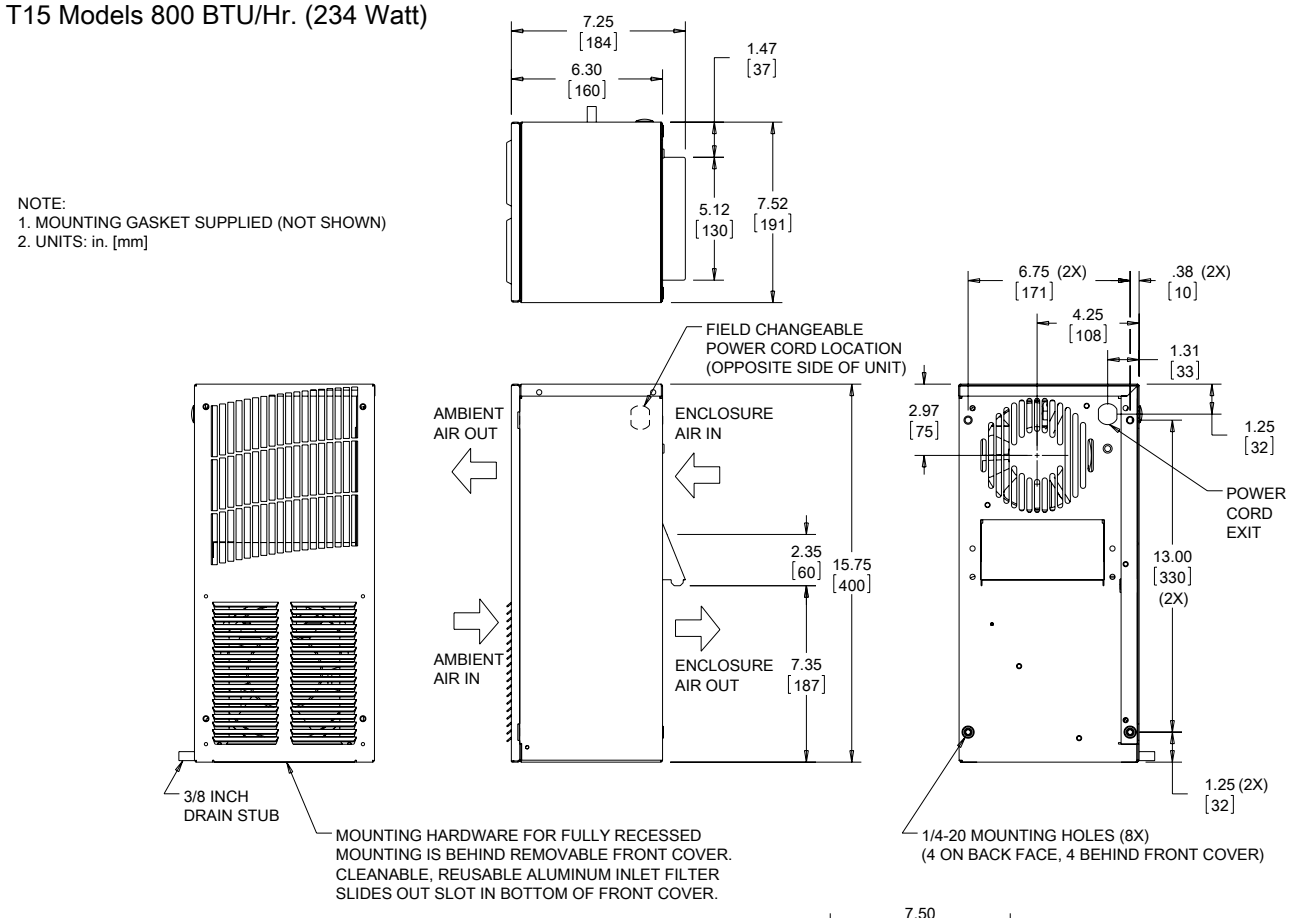
Performance Curves for T15 Models 800 BTU/Hr. (234 Watt)

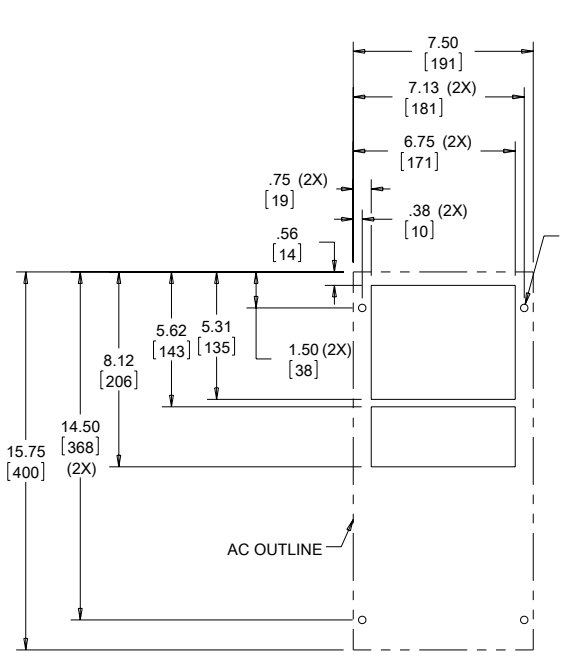




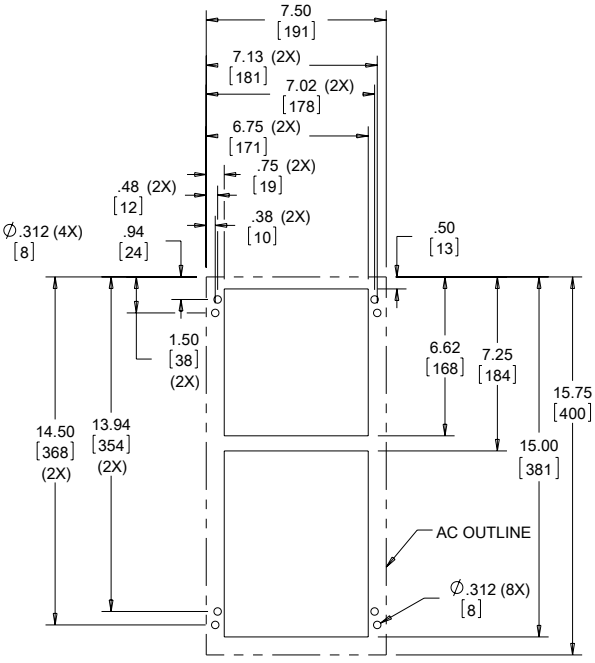
T15 Models 800 BTU/Hr. (234 Watt)

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]





Cutout Dimensions (Externally Mounted)



Cutout Dimensions (Internally Mounted)

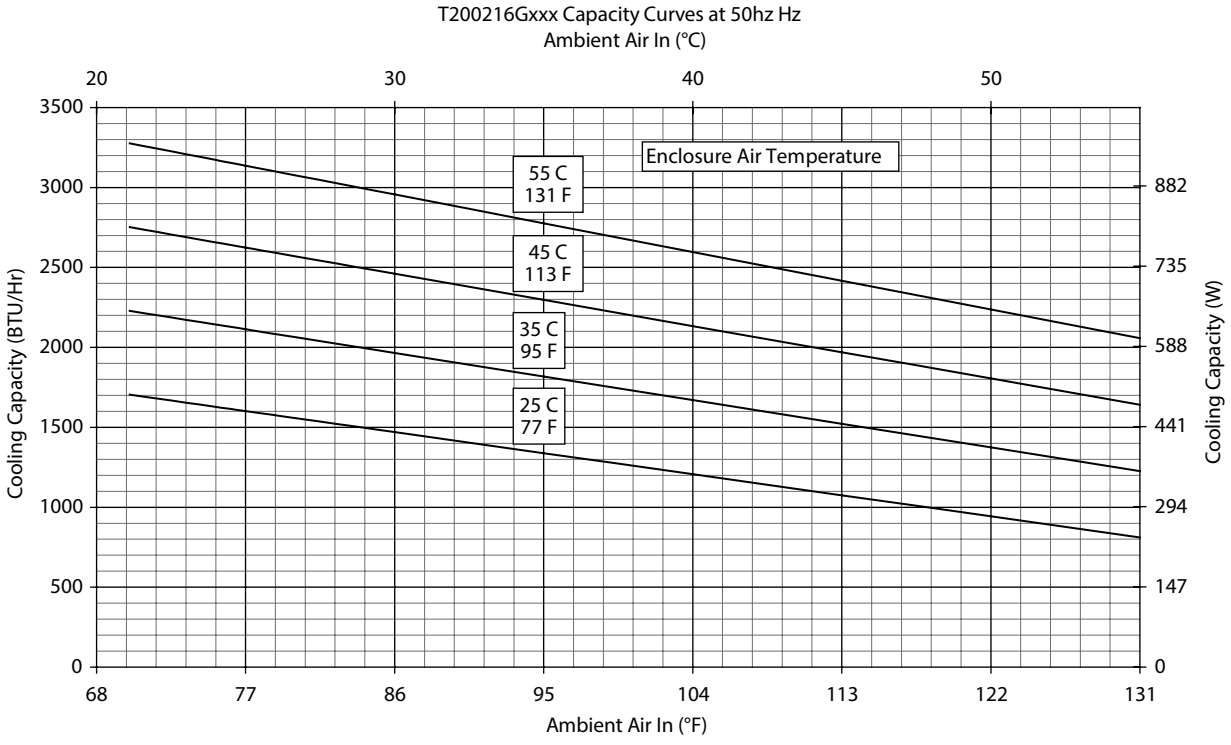
89043915

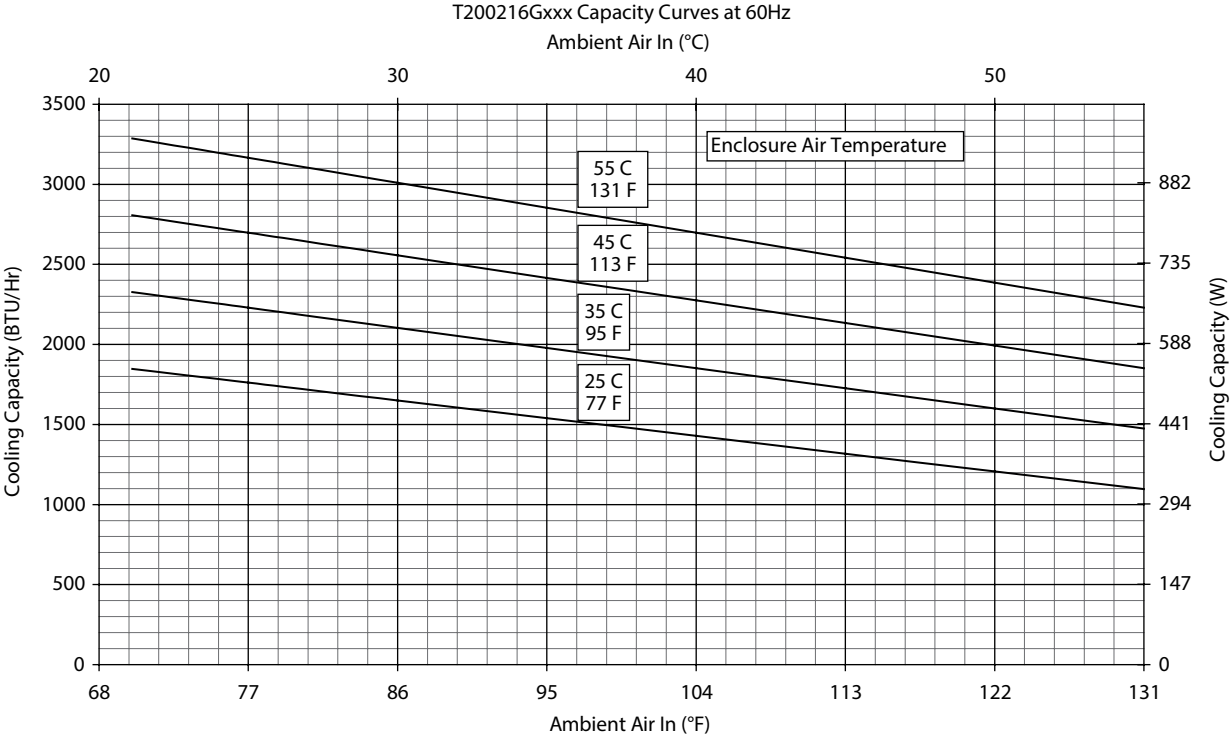
Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **T20 2000 BTU/Hr. (586 Watt) Models**

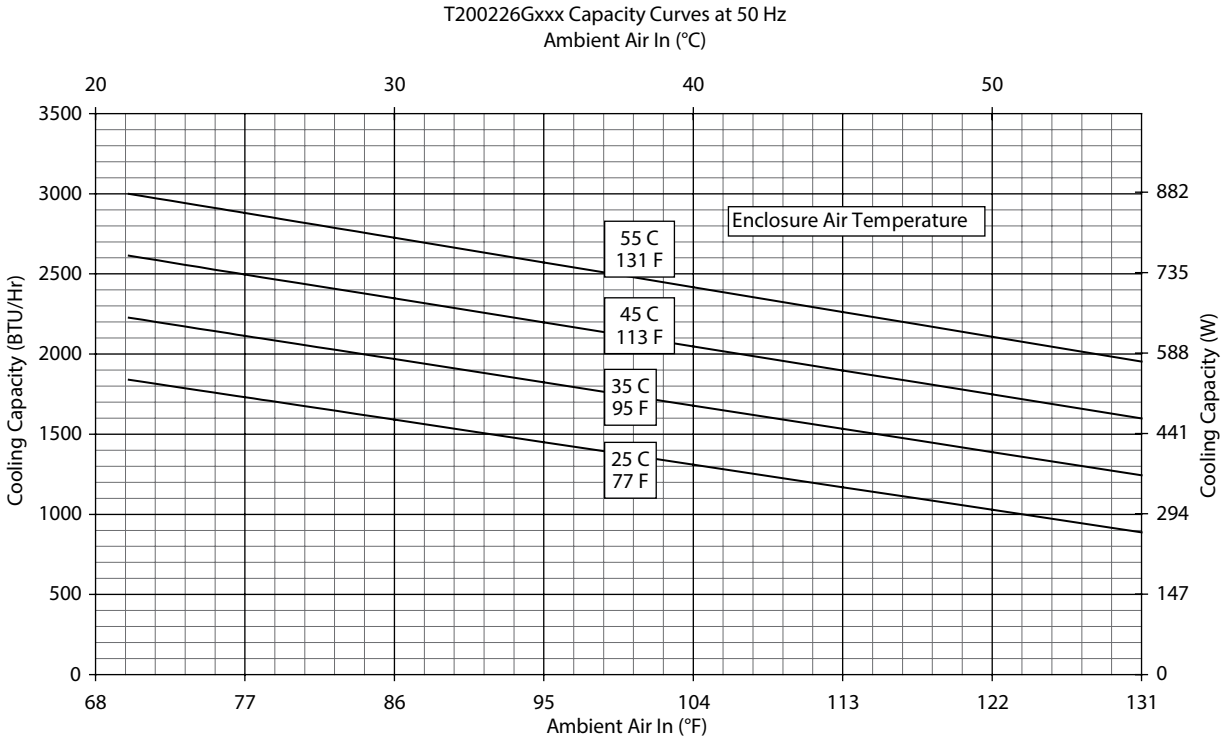
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T200216G100	T200226G100	T200246G400
Outdoor Model with Heat Pkg.	T200216G150	T200226G150	—
Outdoor Model/SST/Corrosion/4X	T200216G155	T200226G103	T200246G401
Outdoor Model/SST/Corrosion/4X/Heater	T200216G157	T200226G158	—
COOLING PERFORMANCE			
Nominal:			
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

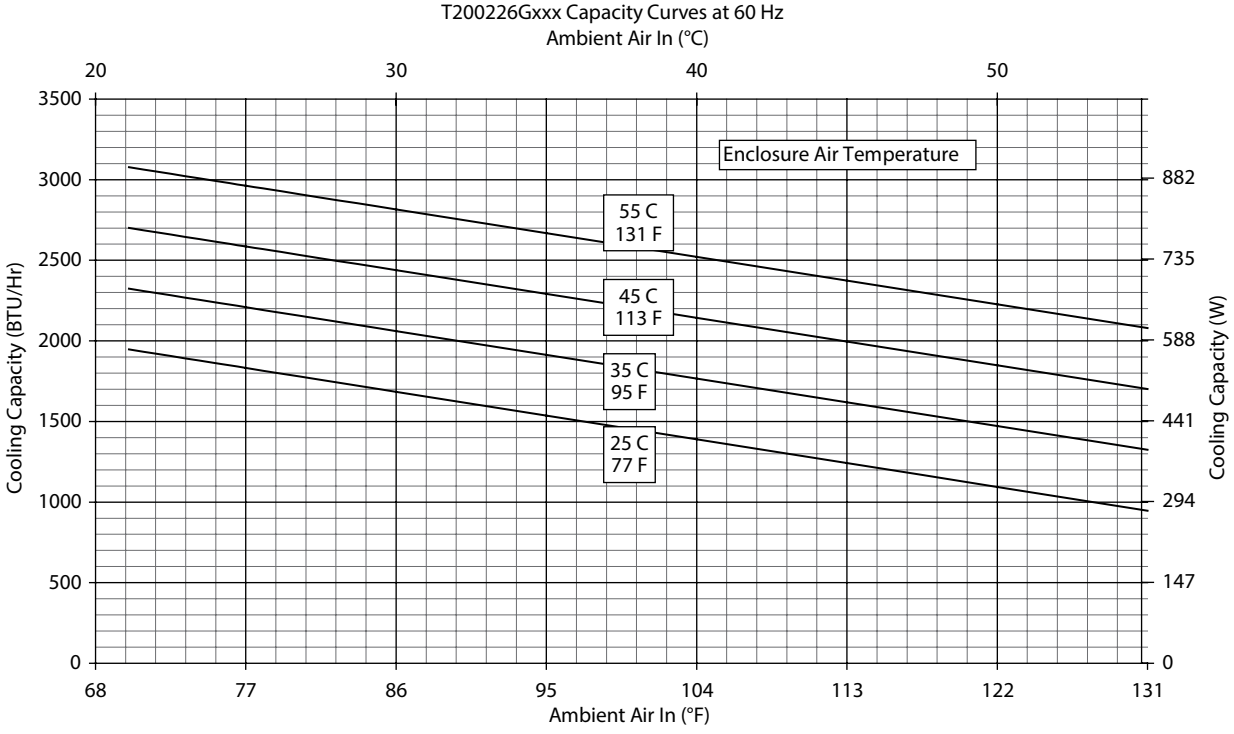
Performance Curves for T20 Models 2000 BTU/Hr. (586 Watt)



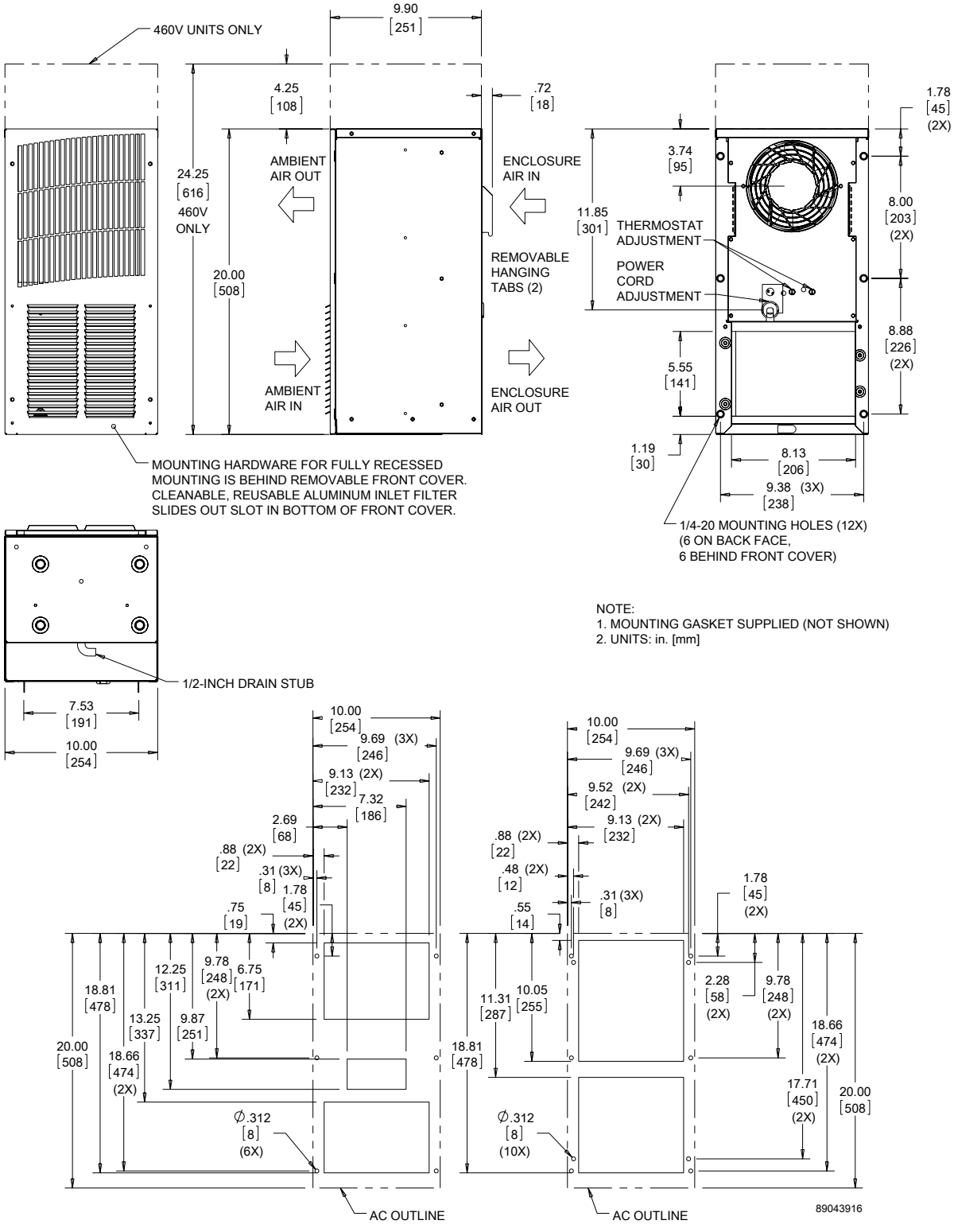


Performance Curves for T20 Models 2000 BTU/Hr. (586 Watt)





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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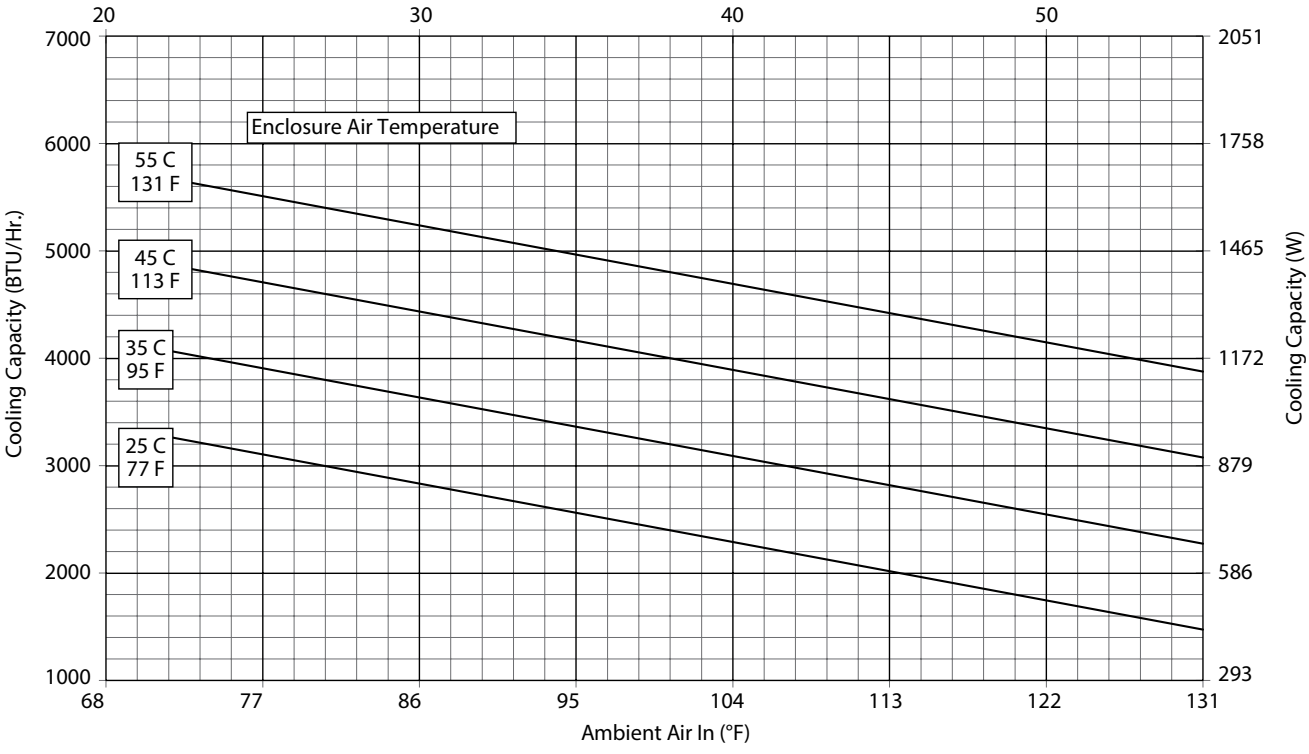
Performance Data **T29 4000 BTU/Hr. (1173 Watt) Models**

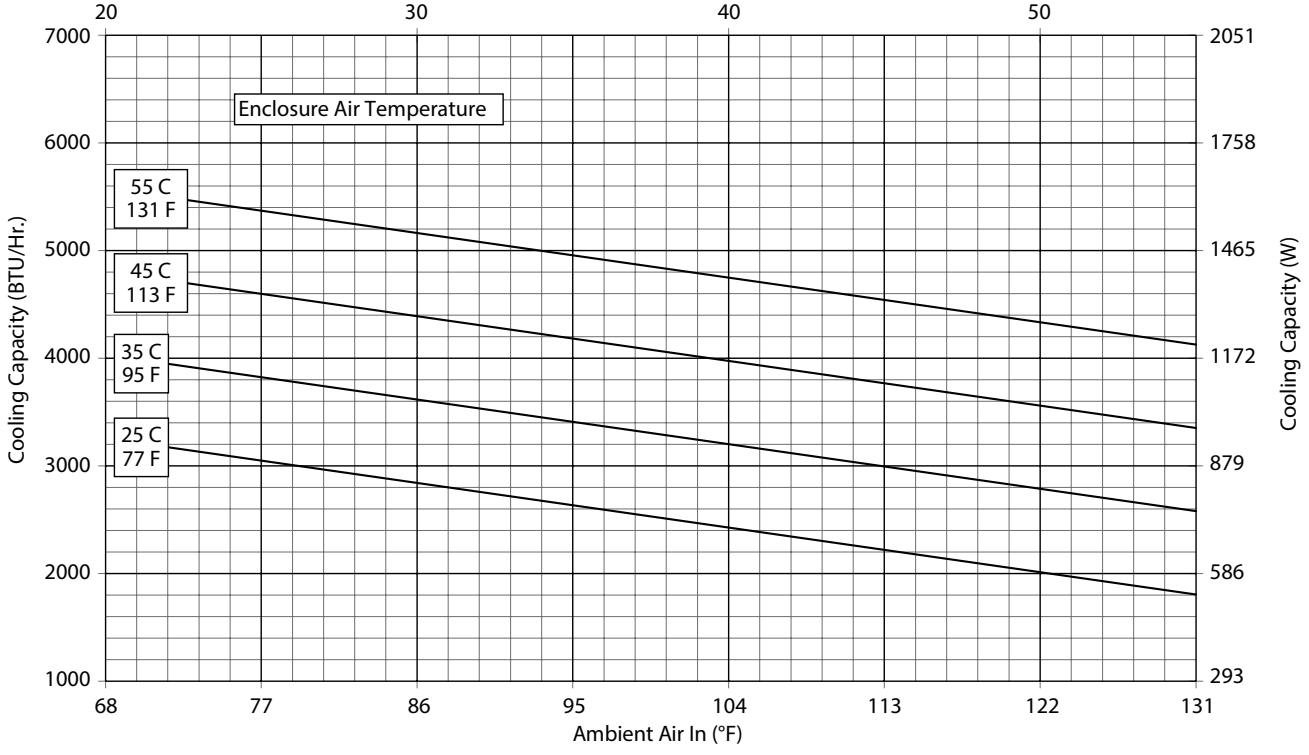
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T290416G100	T290426G100	T290446G400
Outdoor Model with Heat Pkg.	T290416G150	T290426G150	—
Outdoor Model/SST/Corrosion/4X	T290416G159	T290426G161	—
Outdoor Model/SST/Corrosion/4X/Heater	T290416G156	T290426G160	T290446G403
COOLING PERFORMANCE			
Nominal:			
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)

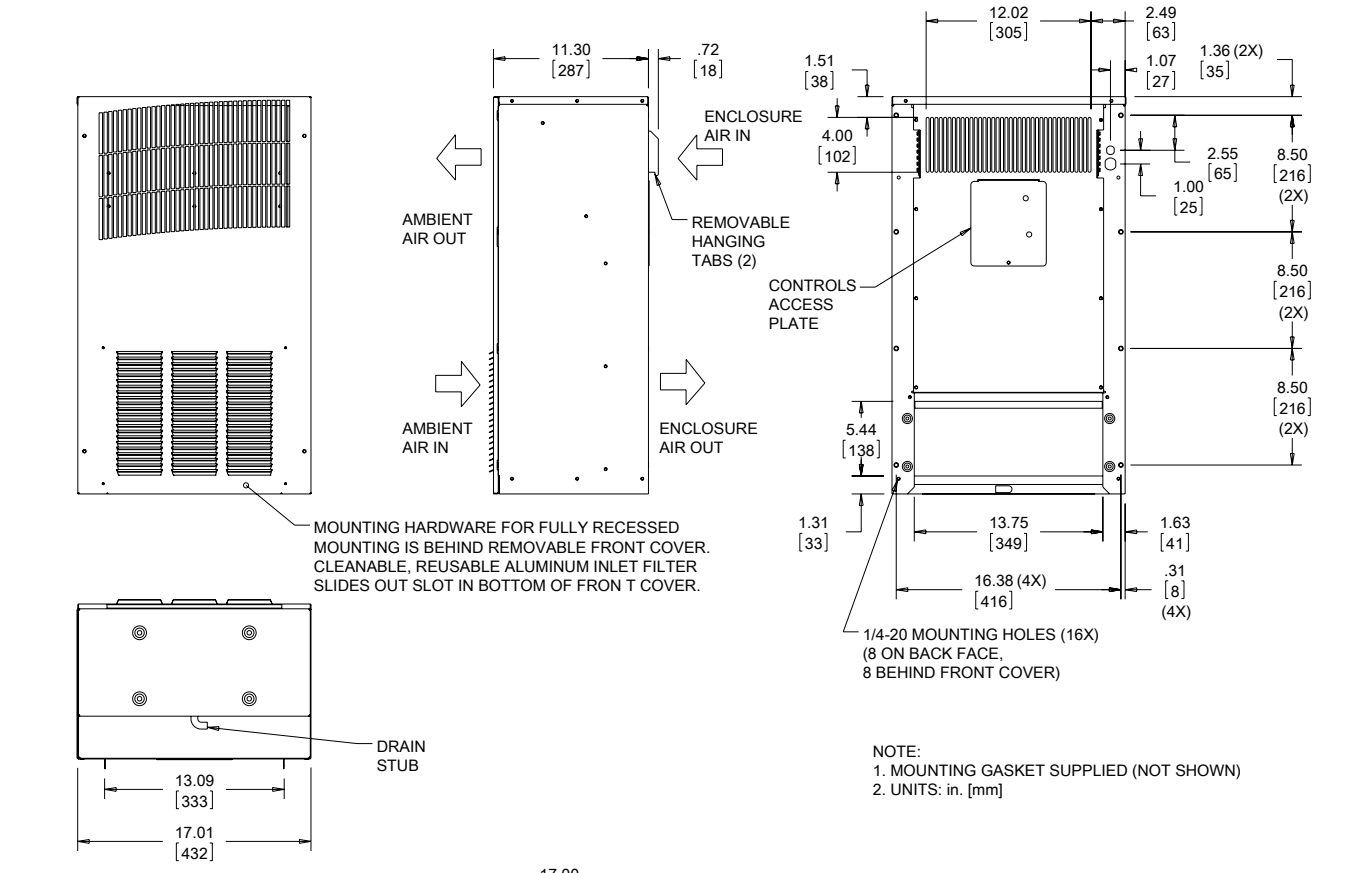
T29-04x6-Gxxx Capacity Curves 50 Hz



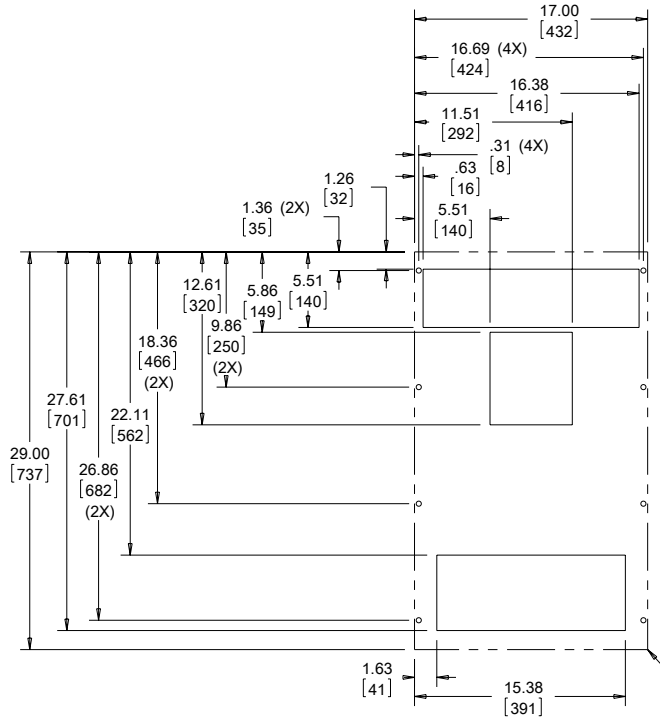
T29-04x6-Gxx Capacity Curves 60 Hz



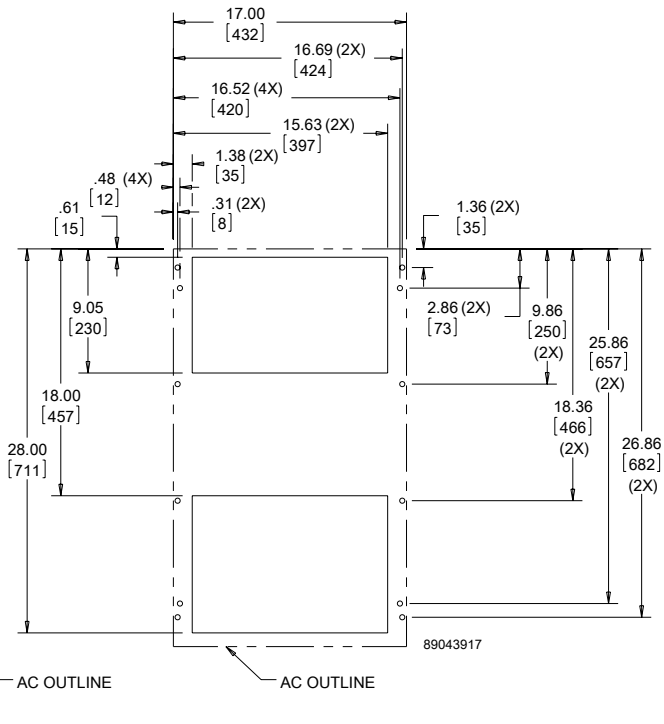
T29 Models 4000 BTU/Hr. (1173 Watt)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions (Externally Mounted)



Cutout Dimensions (Internally Mounted)

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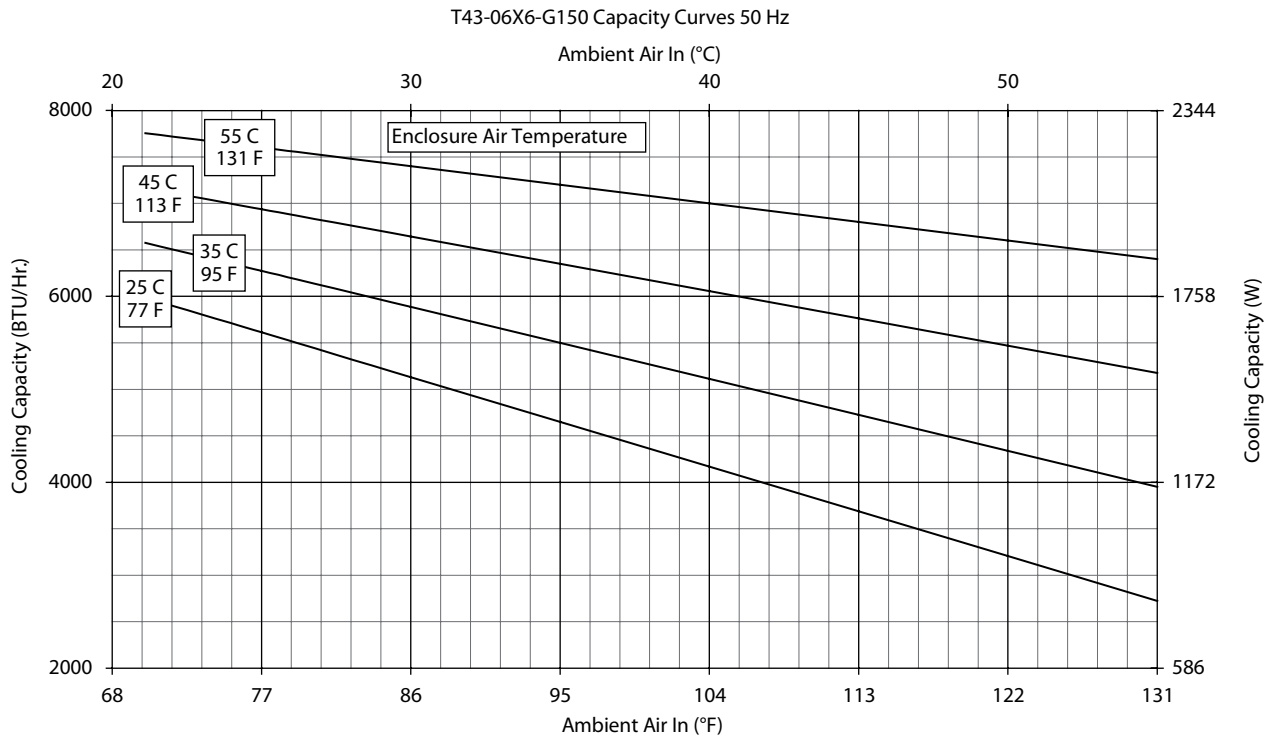
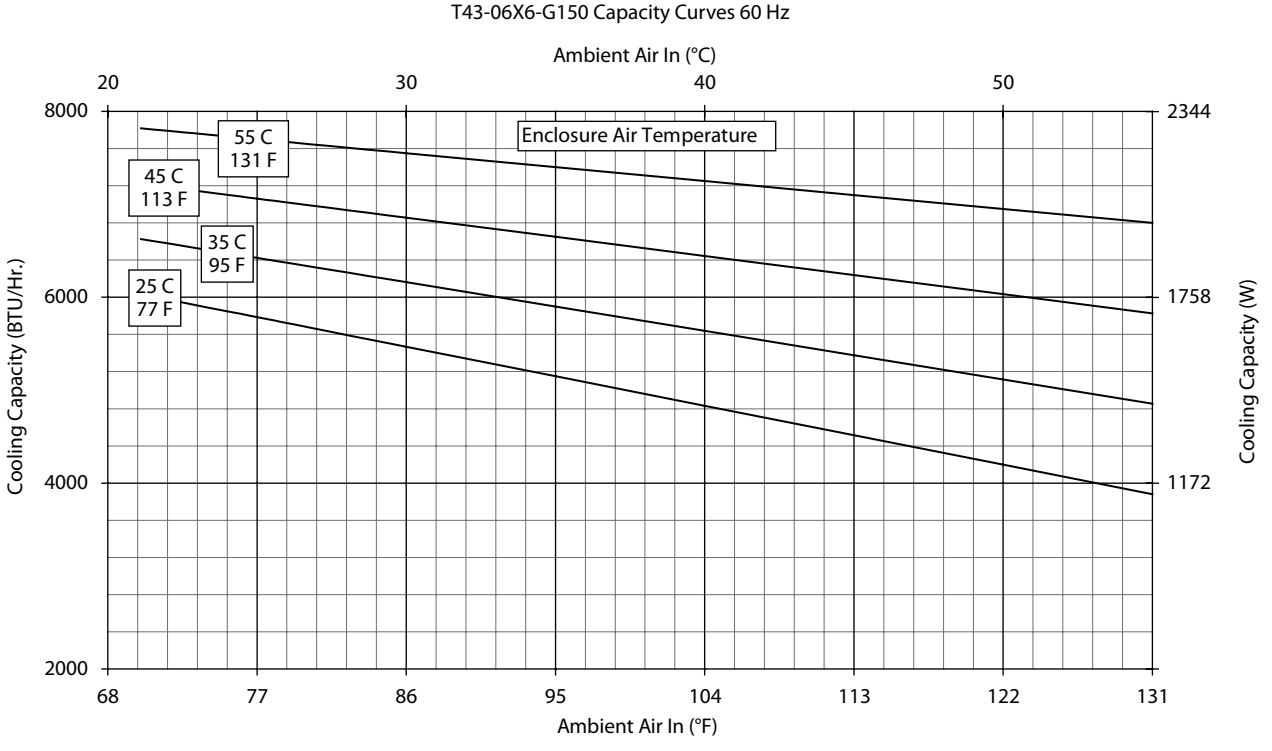
Performance Data **T43 6000 BTU/Hr. (1758 Watt) Models**

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)



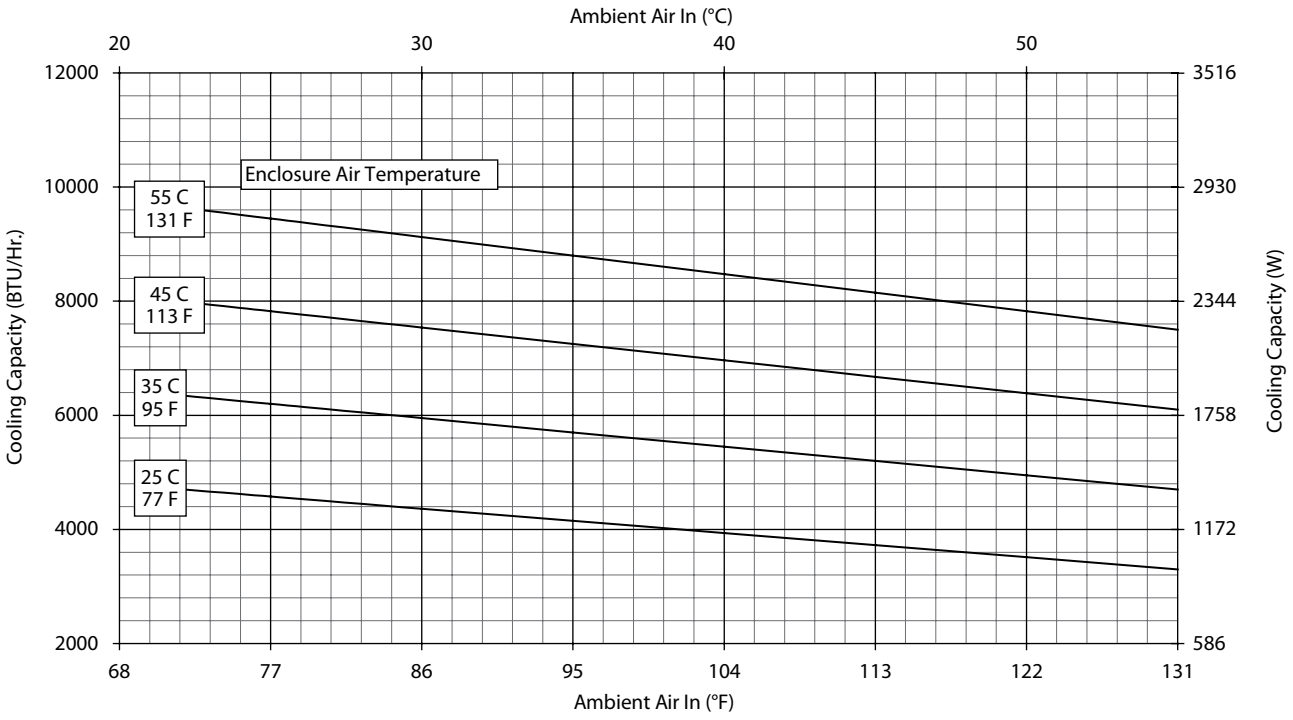


Performance Data **T43 8000 BTU/Hr. (2344 Watt) Models**

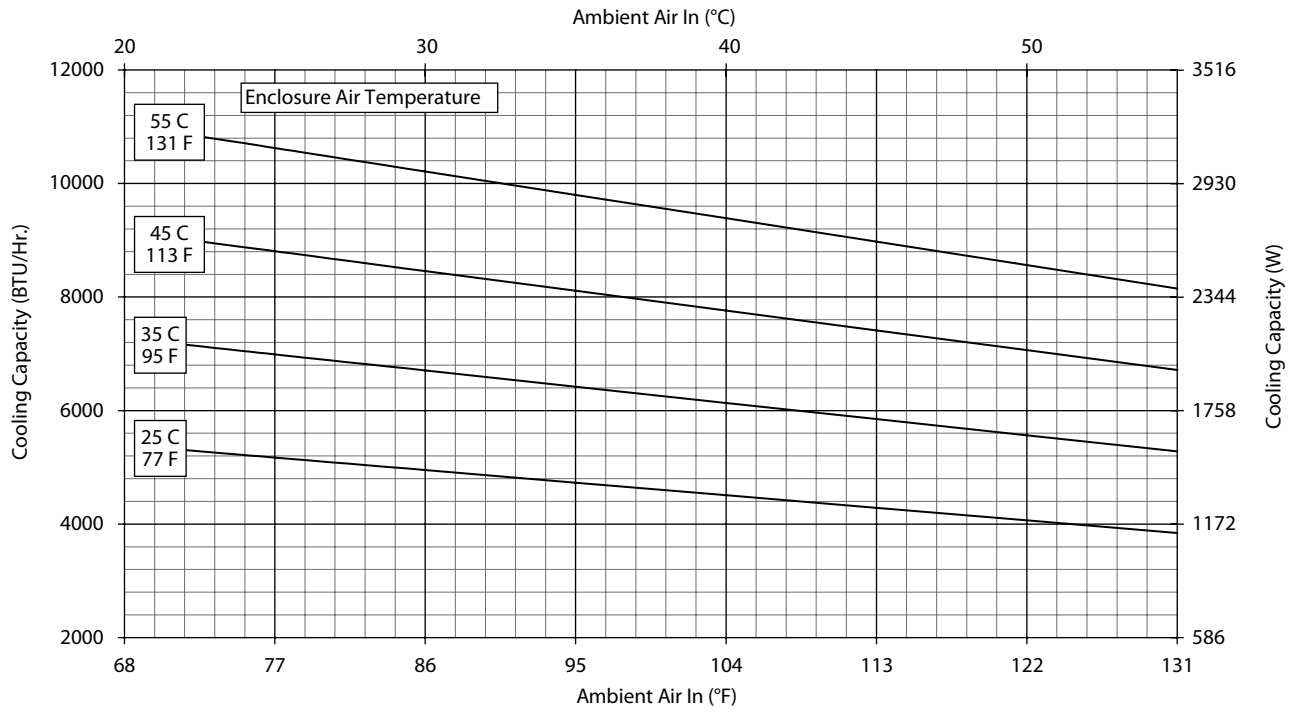
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T430816G100	T430826G100	T430846G400
Outdoor Model with Heat Pkg.	T430816G150	T430826G150	T430846G403
Outdoor Model/SST/Corrosion/4X	T430816G153	T430826G108	T430846G402
Outdoor Model/SST/Corrosion/4X/Heater	—	—	—
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**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

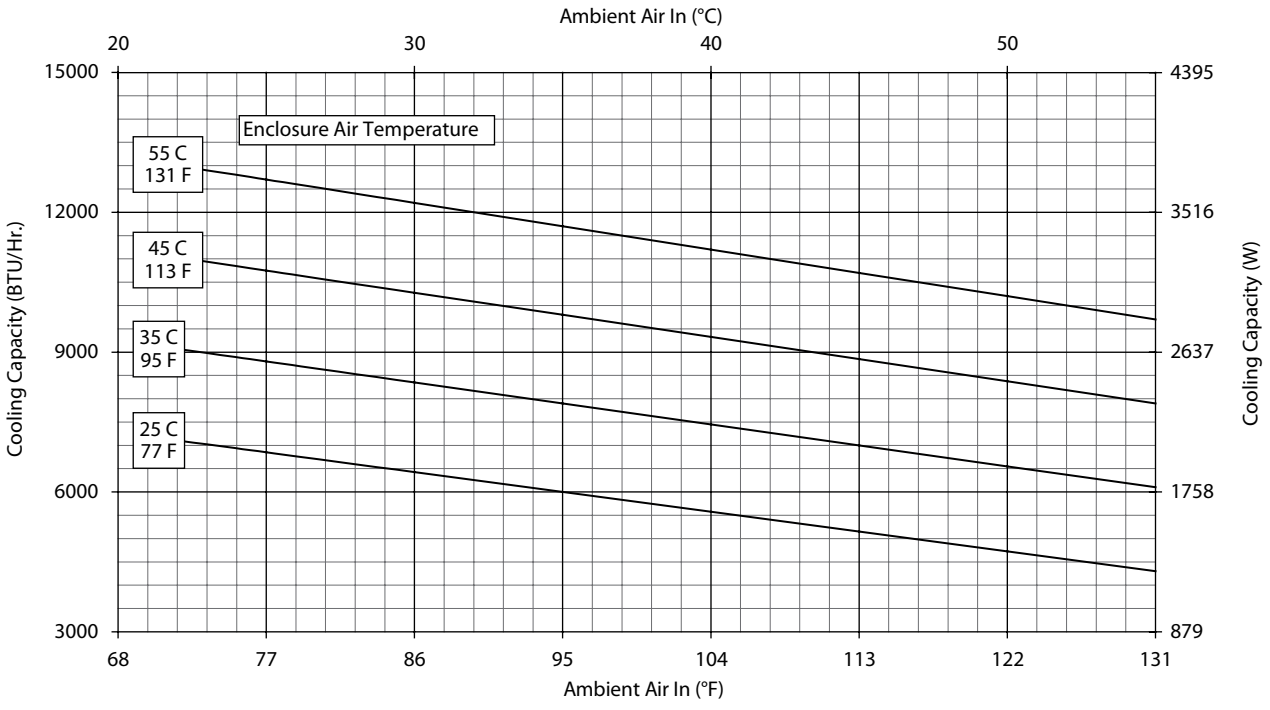


Performance Data **T43 10000 BTU/Hr. (2930 Watt) Models**

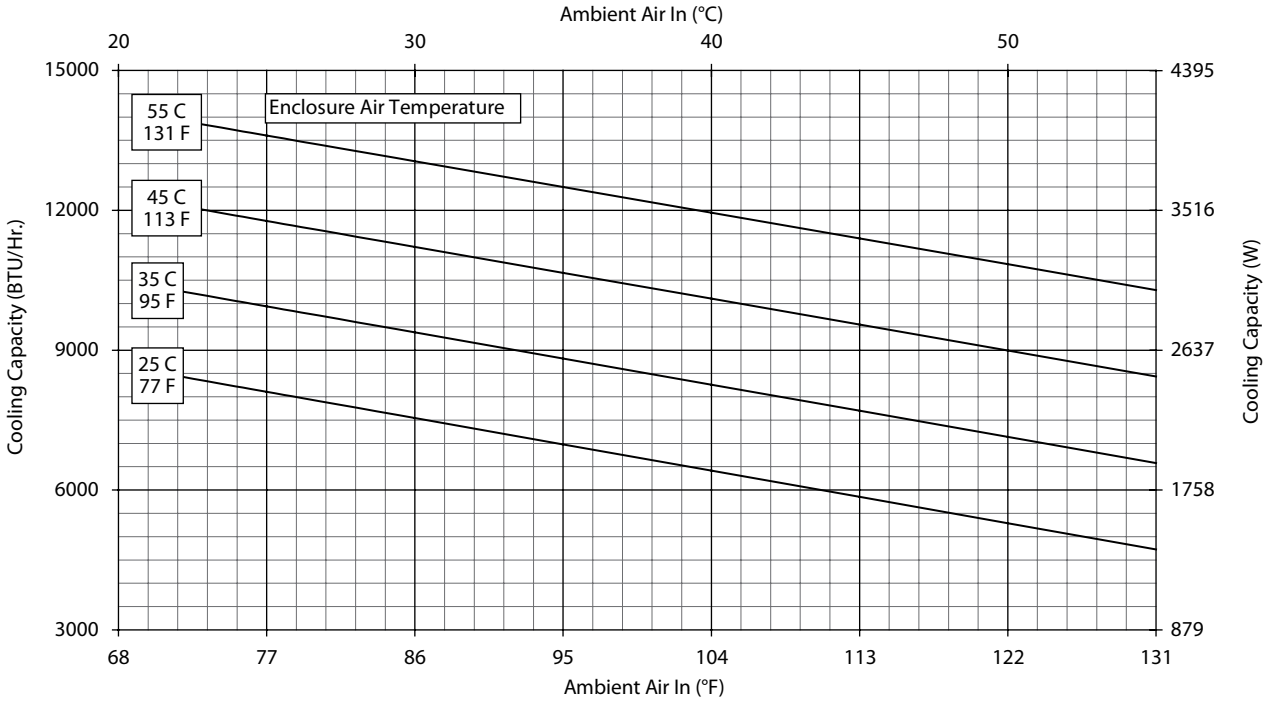
CATALOG NUMBER			
Outdoor Model without Heat Pkg.	T431016G100	T431026G100	T431046G400
Outdoor Model with Heat Pkg.	T431016G150	T431026G150	—
Outdoor Model/SST/Corrosion/4X	T431016G102	T431026G104	T431046G406
Outdoor Model/SST/Corrosion/4X/Heater	T431016G153	T431026G152	—
COOLING PERFORMANCE			
Nominal:			
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)

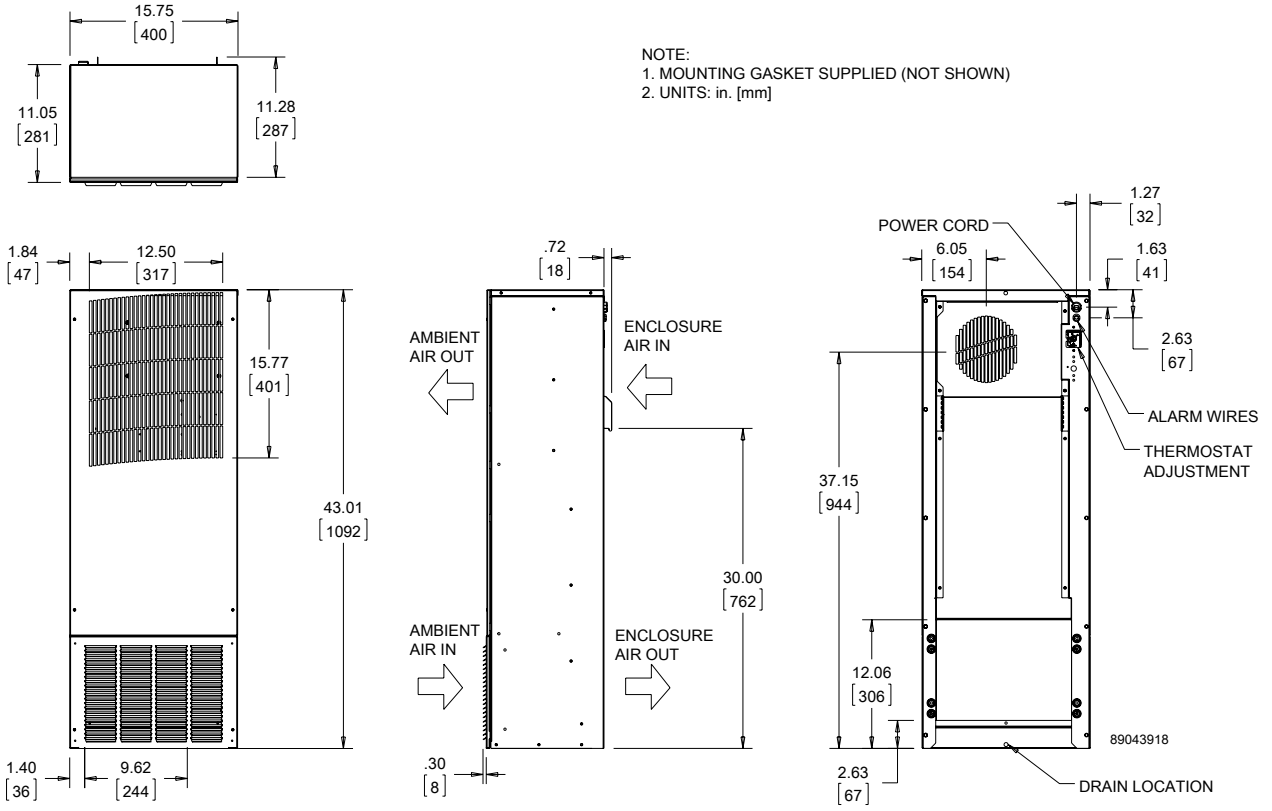
T43-10X6-G150 Capacity Curves 50 Hz

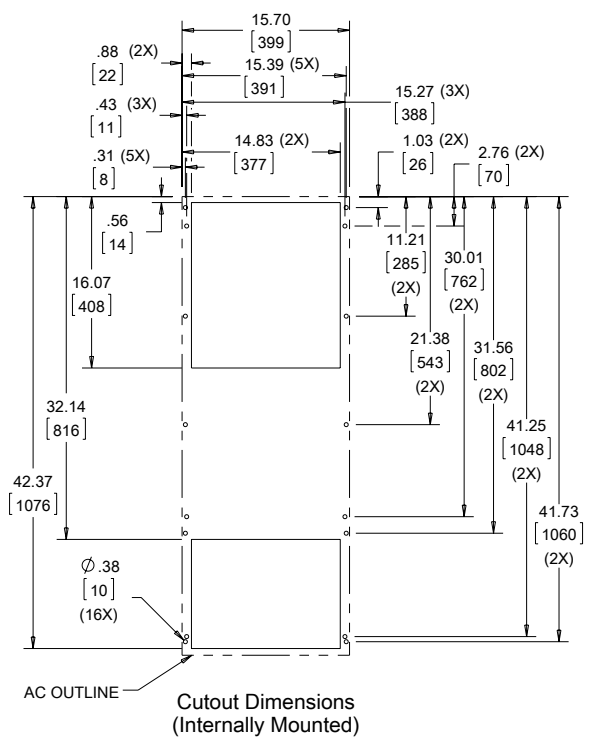


T43-10X6-G150 Capacity Curves 60 Hz

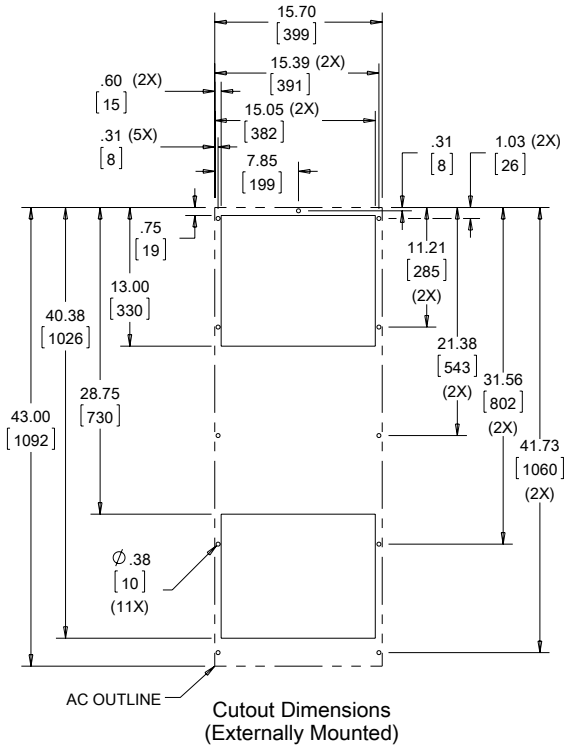


T43 6000-10000 Models BTU/HR. (1758 - 2930 Watt)





Cutout Dimensions
(Internally Mounted)



Cutout Dimensions
(Externally Mounted)

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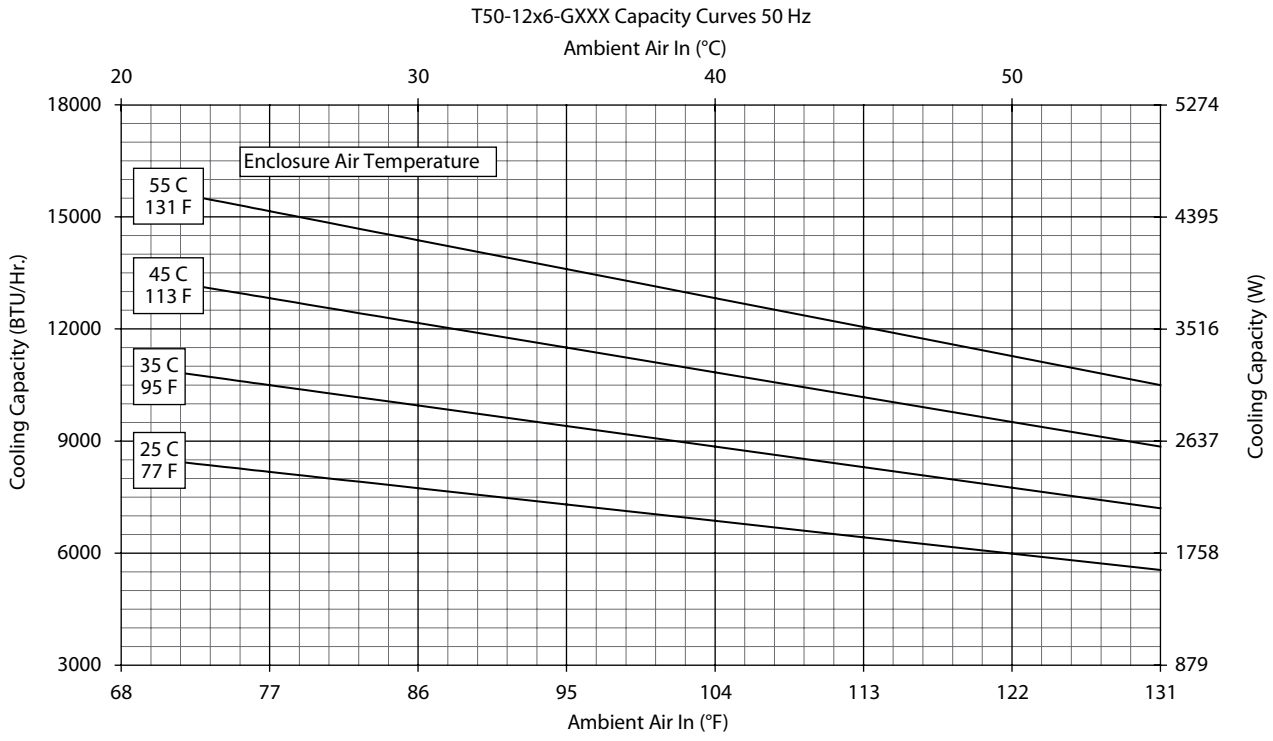
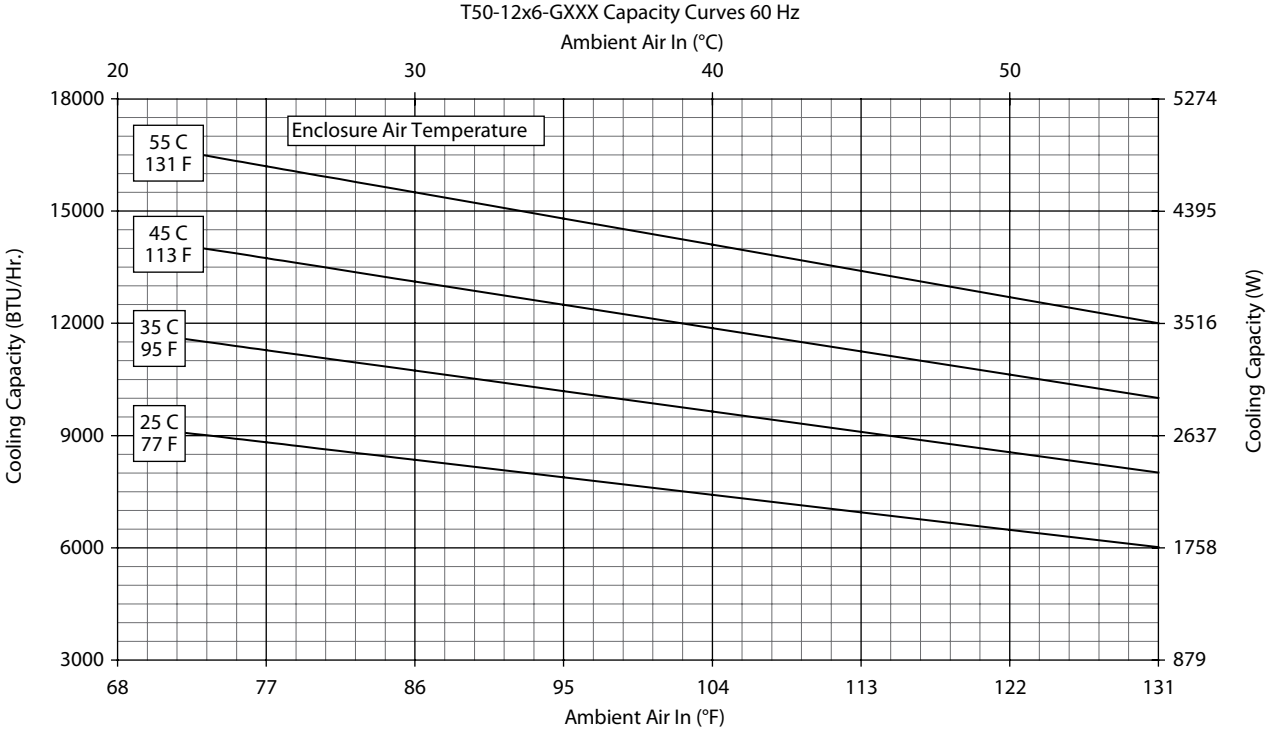
Performance Data **T50 12000 BTU/Hr. (3516 Watt) Models**

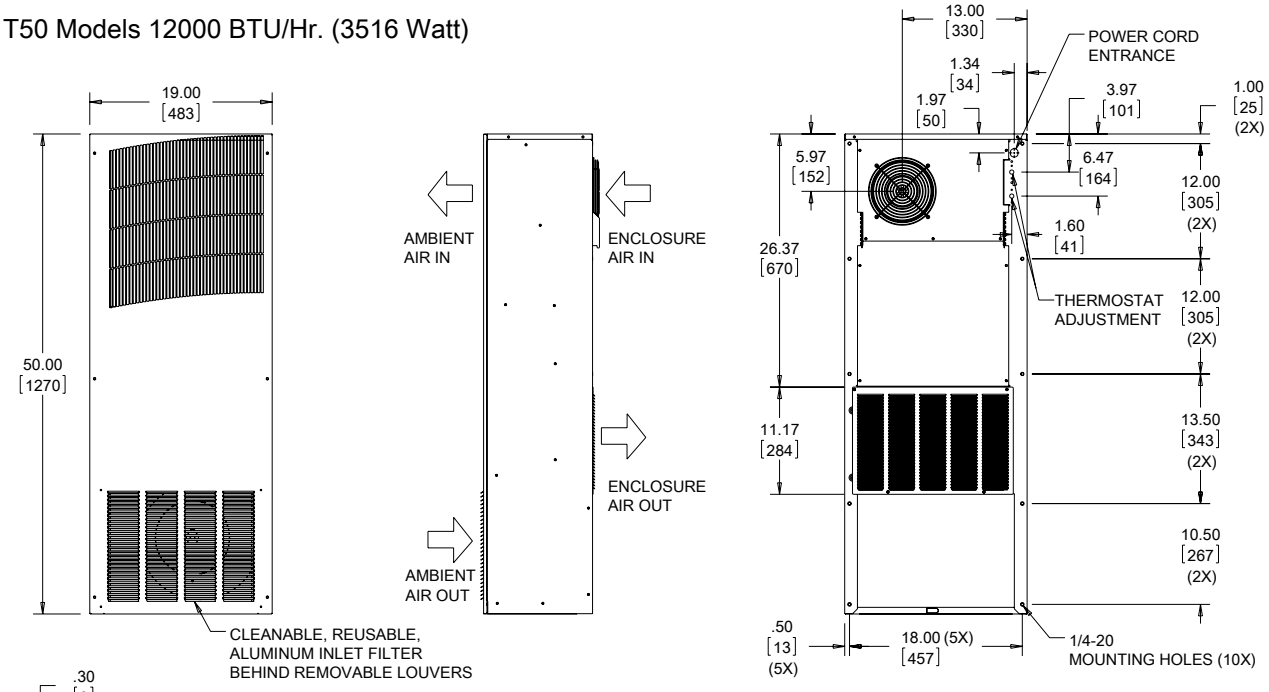
CATALOG NUMBER		
Outdoor Model without Heat Pkg.	T501226G100	T501246G400
Outdoor Model with Heat Pkg.	T501226G150	—
Outdoor Model/SST/Corrosion/4X	T501226G125	T501246G401
Outdoor Model/SST/Corrosion/4X/Heater	T501226G156	—
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**11000/12000**	**11000/12000**
Watts	**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	

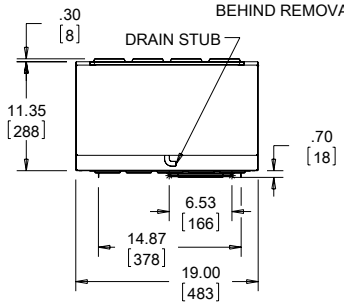
Performance Curves for T50 Models 12000 BTU/Hr. (3516 Watt)



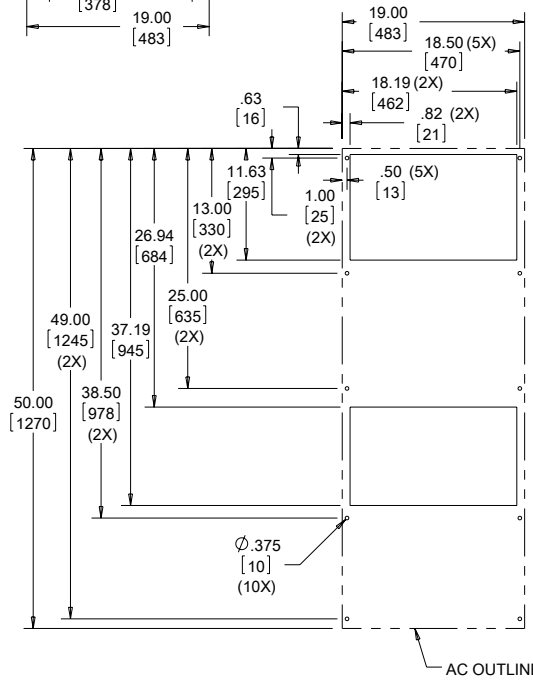


T50 Models 12000 BTU/Hr. (3516 Watt)

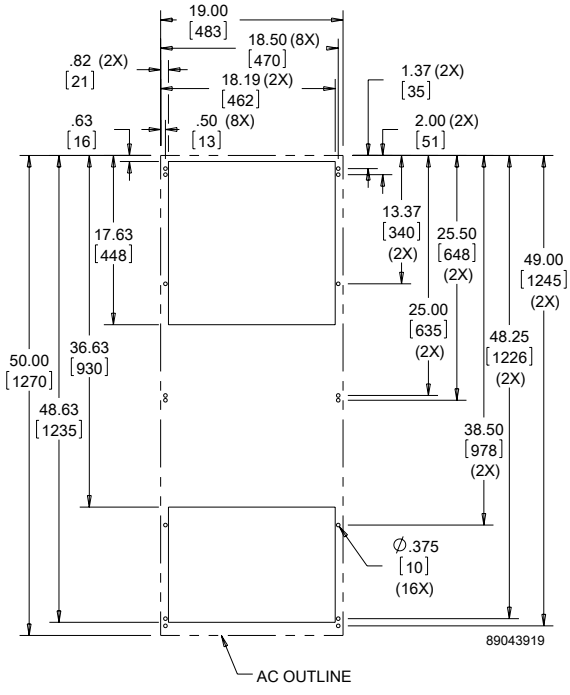




NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions (Externally Mounted)



Cutout Dimensions (Internally Mounted)

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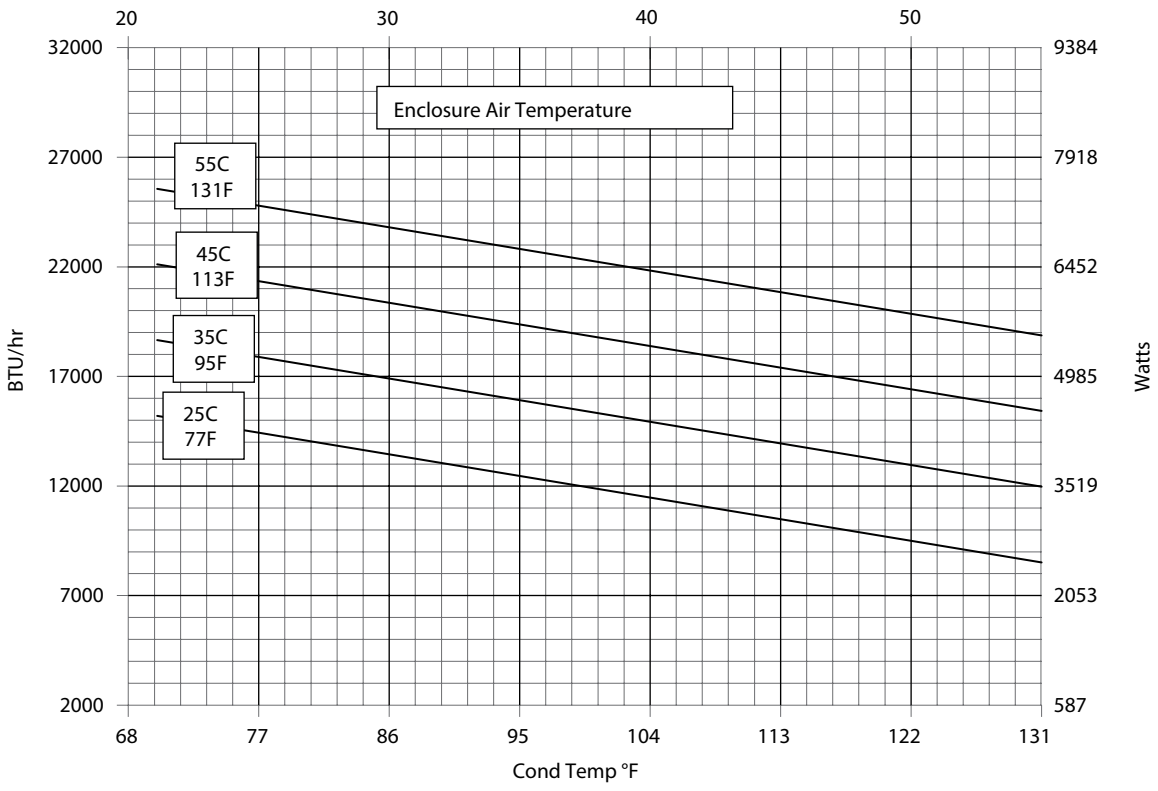
Performance Data **T53 19000 BTU/Hr. (5567 Watt) Models**

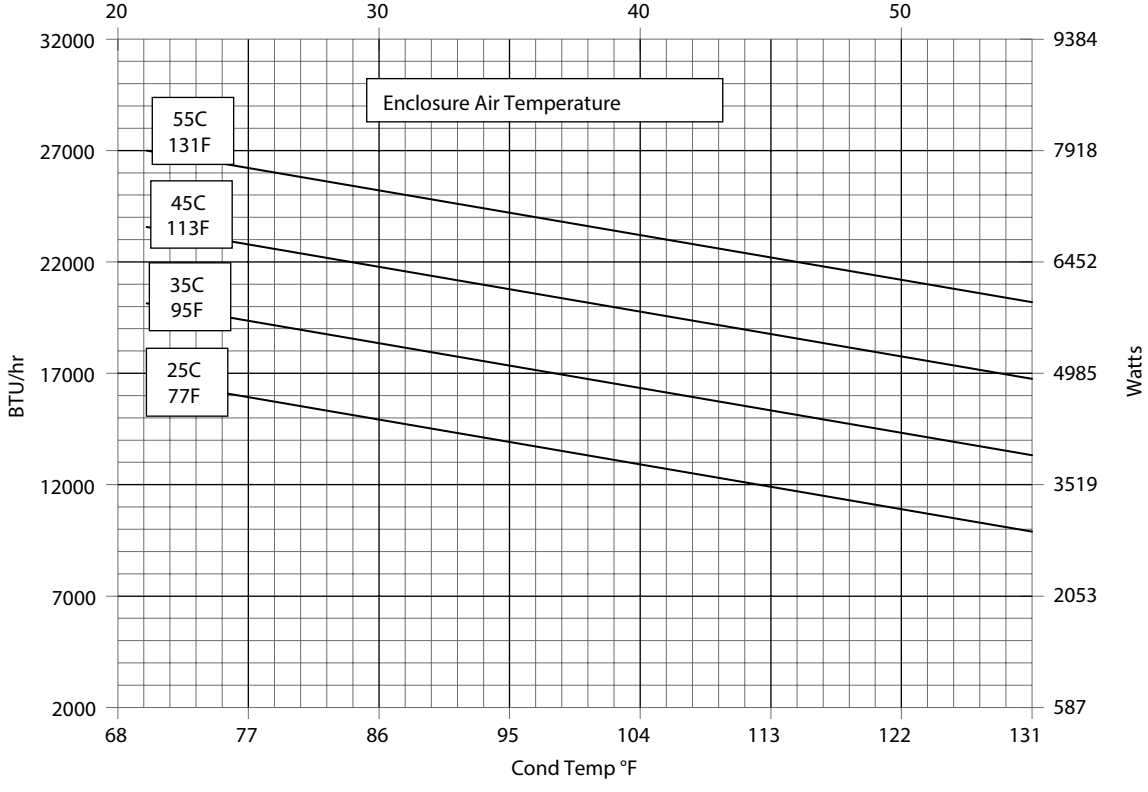
CATALOG NUMBER		
Outdoor Model without Heat Pkg.	T531926G100	T531946G400
Outdoor Model with Heat Pkg.	T531926G150	—
Outdoor Model/SST/Corrosion/4X	T531926G109	—
Outdoor Model/SST/Corrosion/4X/Heater	T531926G151	—
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**18400/20400**	**18400/20400**
Watts	**5392/5978**	**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)

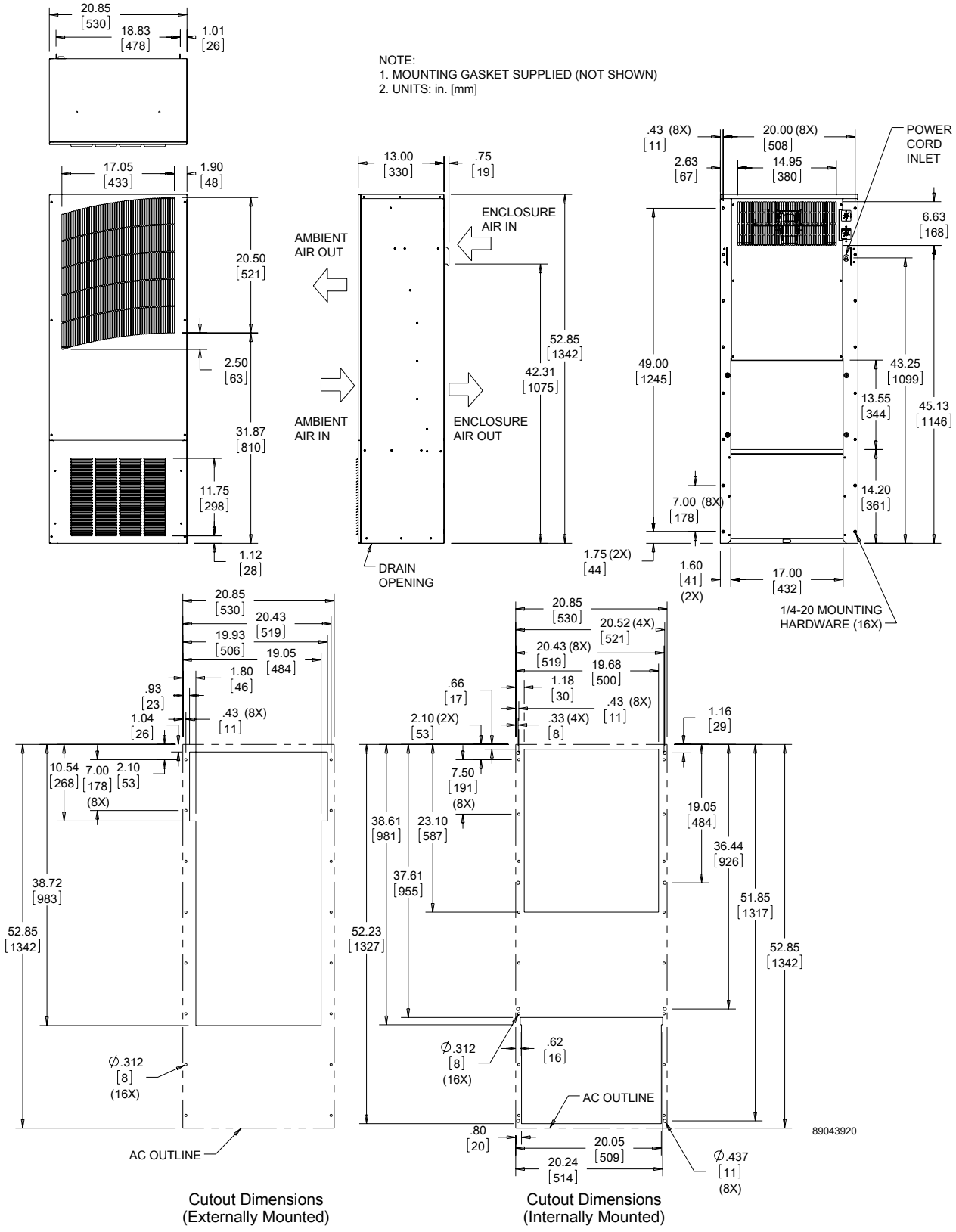
T53-19x6-GXXX Capacity Curves at 50Hz



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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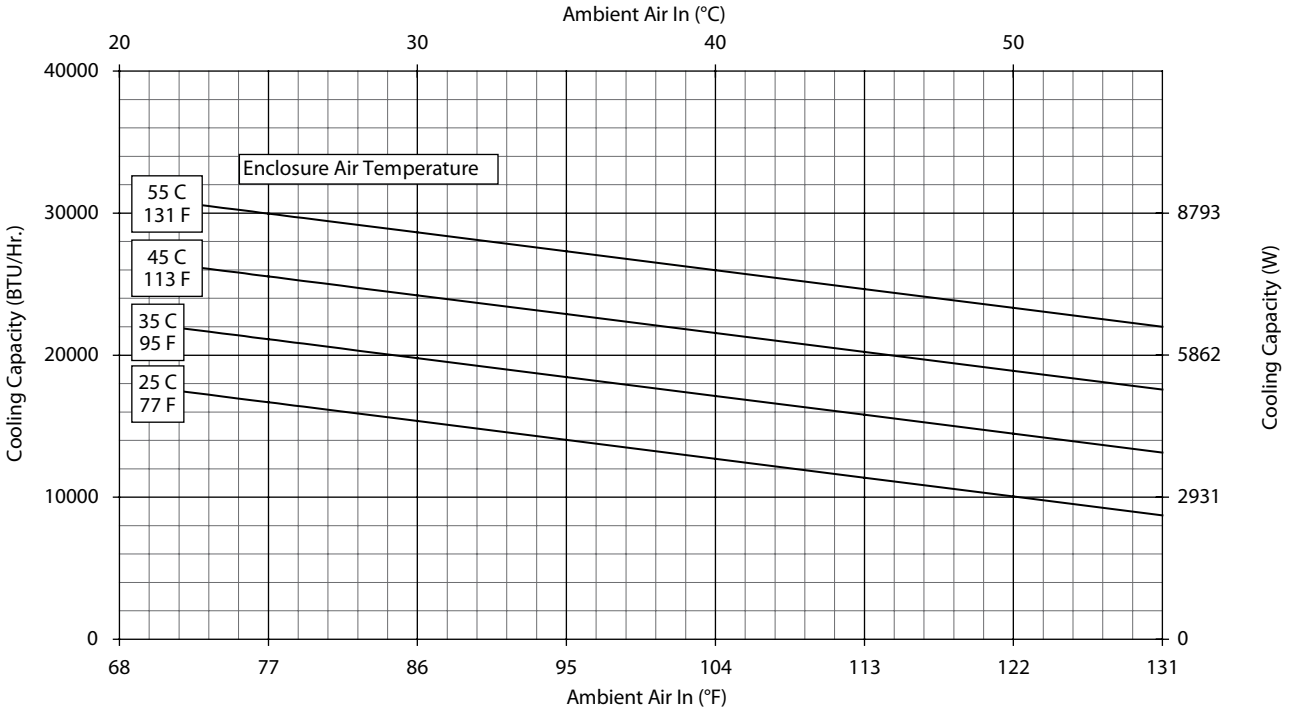
Performance Data **T62 20000 BTU/Hr. (5860 Watt) Models**

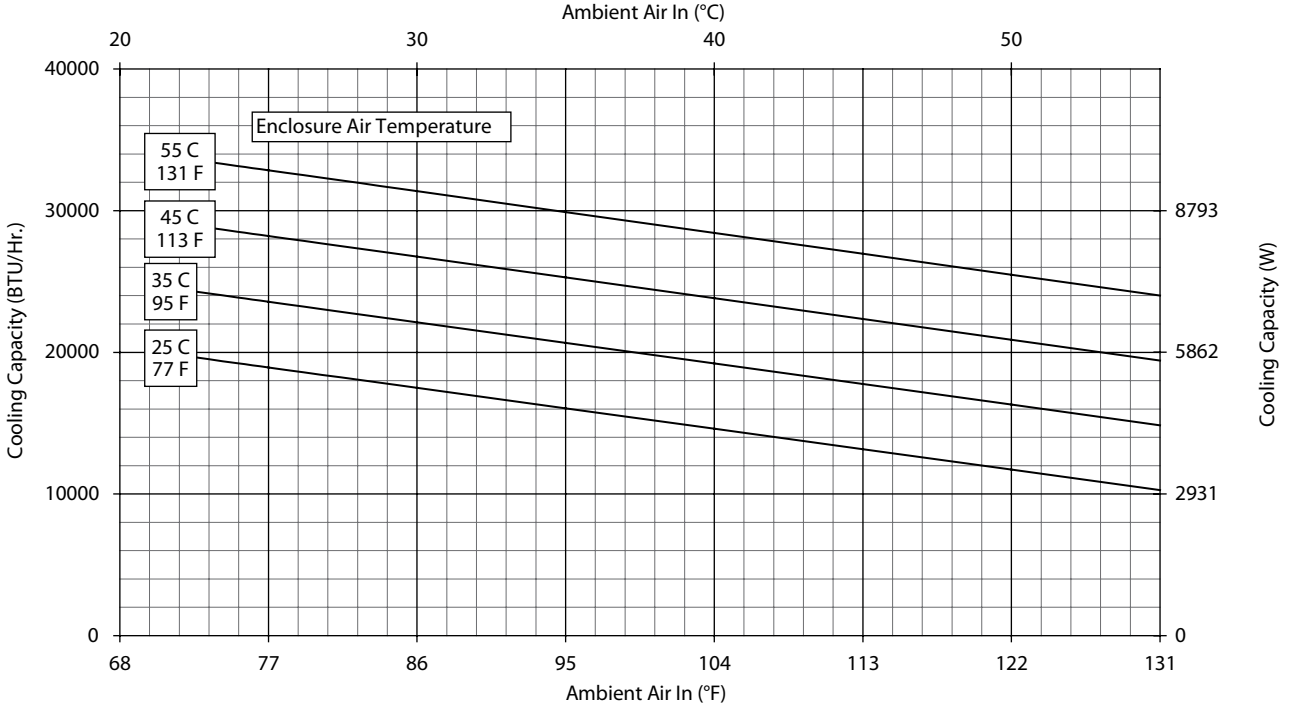
CATALOG NUMBER		
Outdoor Model with Heat Pkg.	T622226G150	T622246G400
Outdoor Model/SST/Corrosion/4X	T622226G102	
Outdoor Model/SST/Corrosion/4X/Heater	T622226G151	
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**20500/23500**	**20500/23500**
Watts	**6007/6886**	**6007/6886**
At 131 F/131 F (55 C/55 C):		
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)

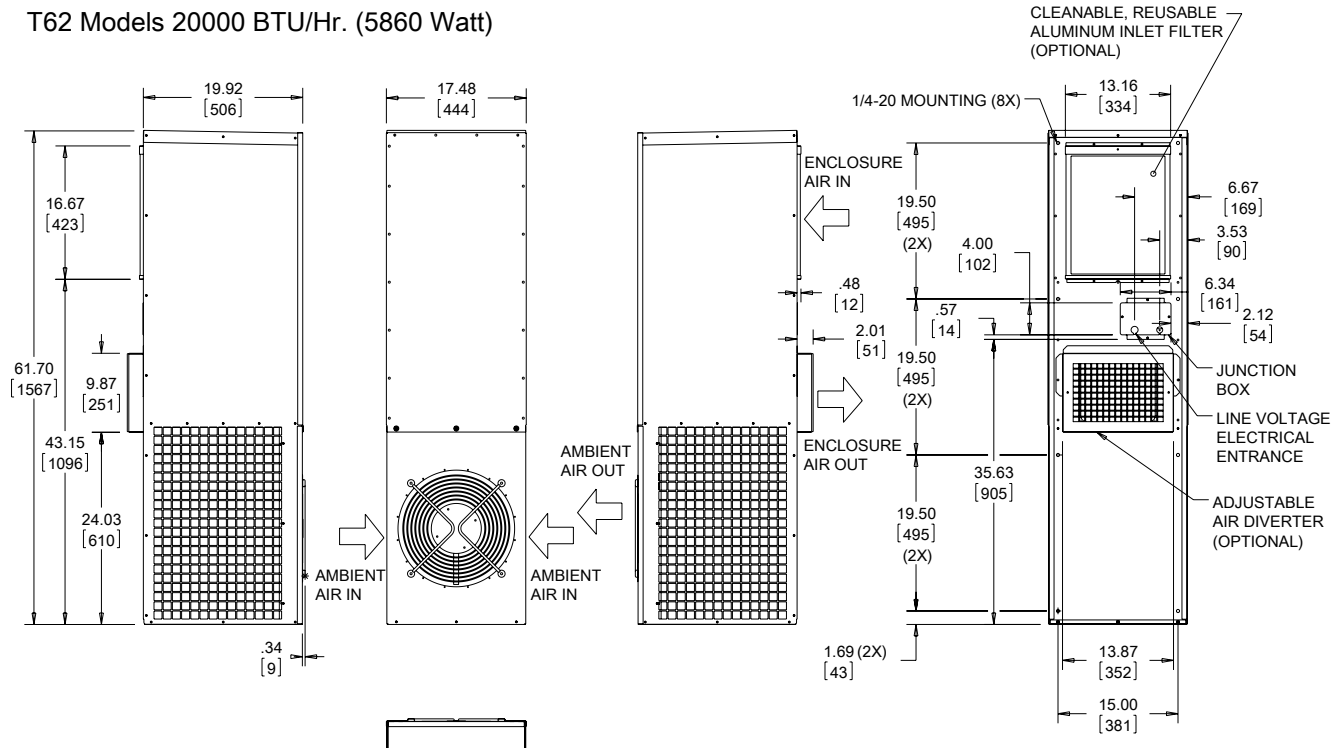
T62-22x6-GXXX R-407c Capacity Curves 50 Hz

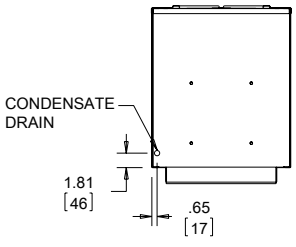


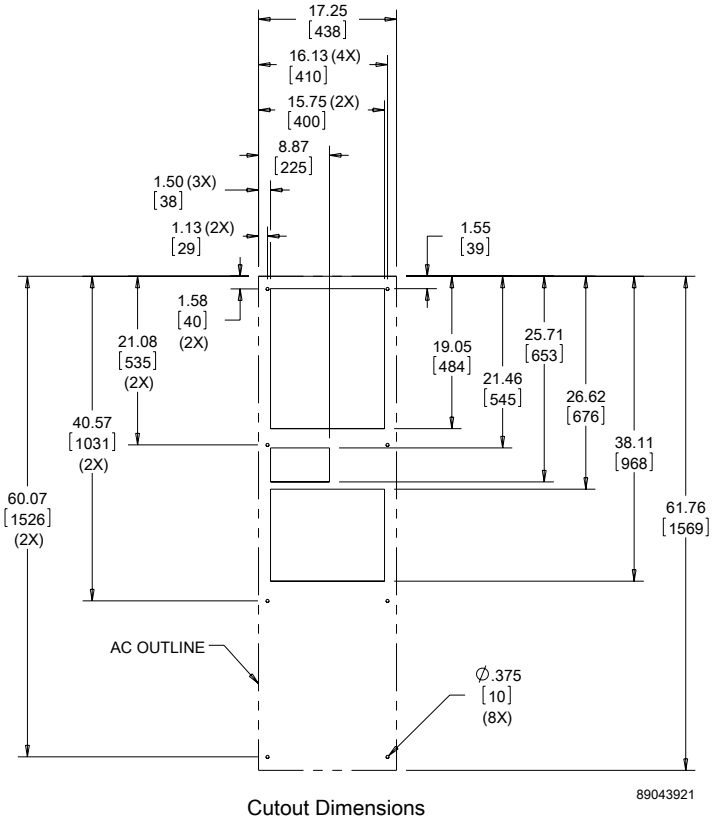
T62-22x6-GXXX R-407c Capacity Curves 60 Hz



T62 Models 20000 BTU/Hr. (5860 Watt)







NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN.
2. UNITS: in. [mm]

Cutout Dimensions

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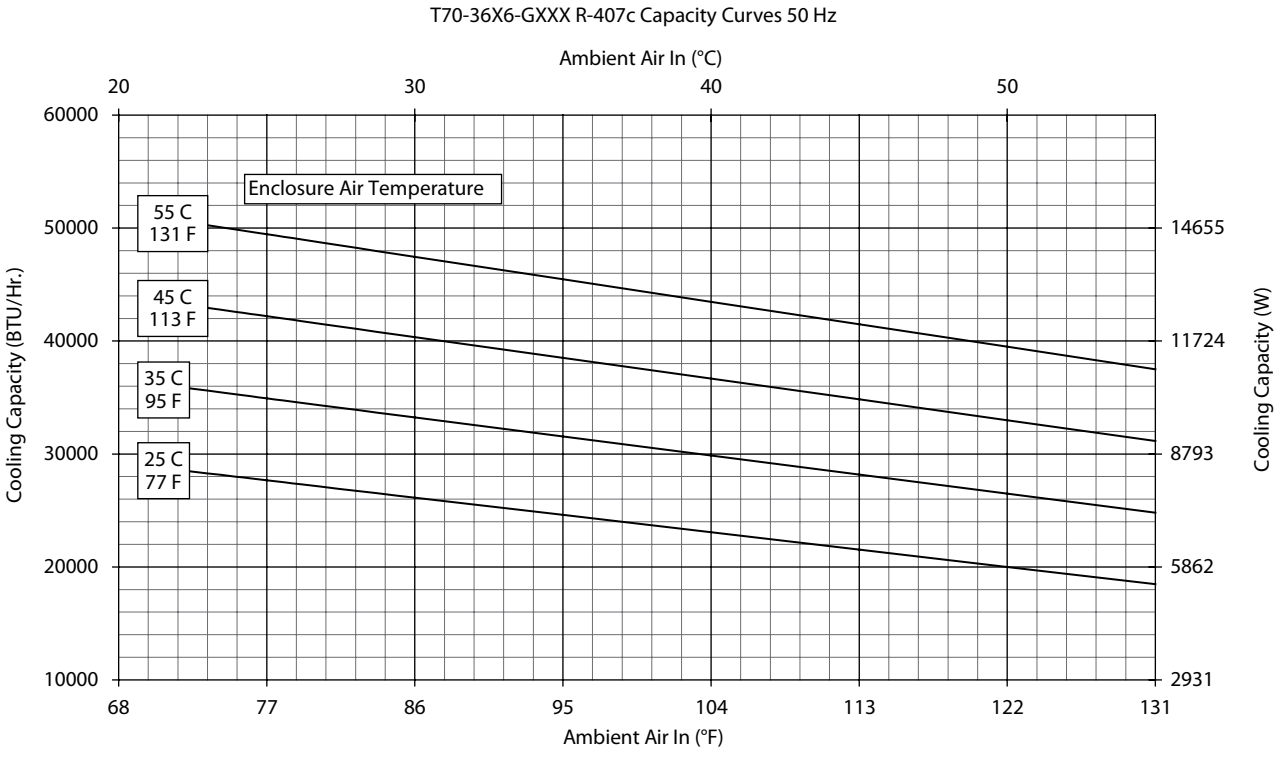
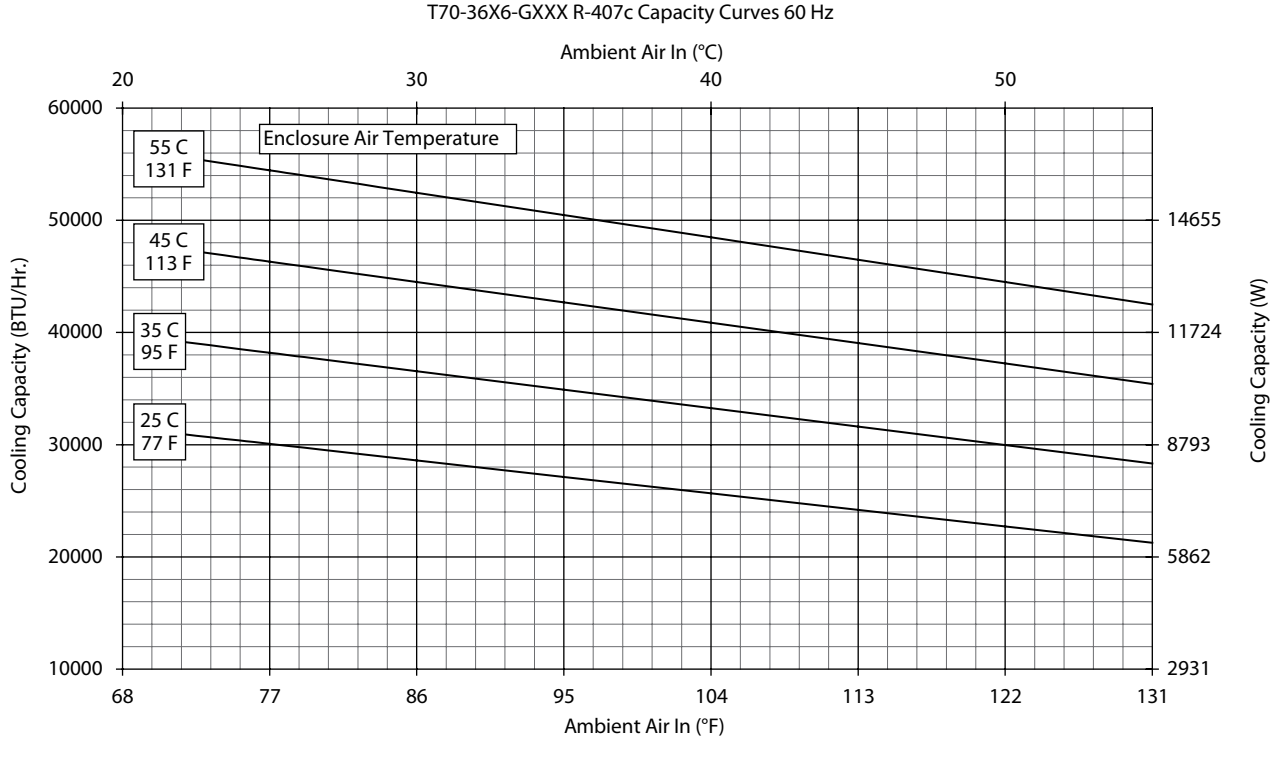
Performance Data **T70-36 36000 BTU/Hr. (10548 Watt) Models**

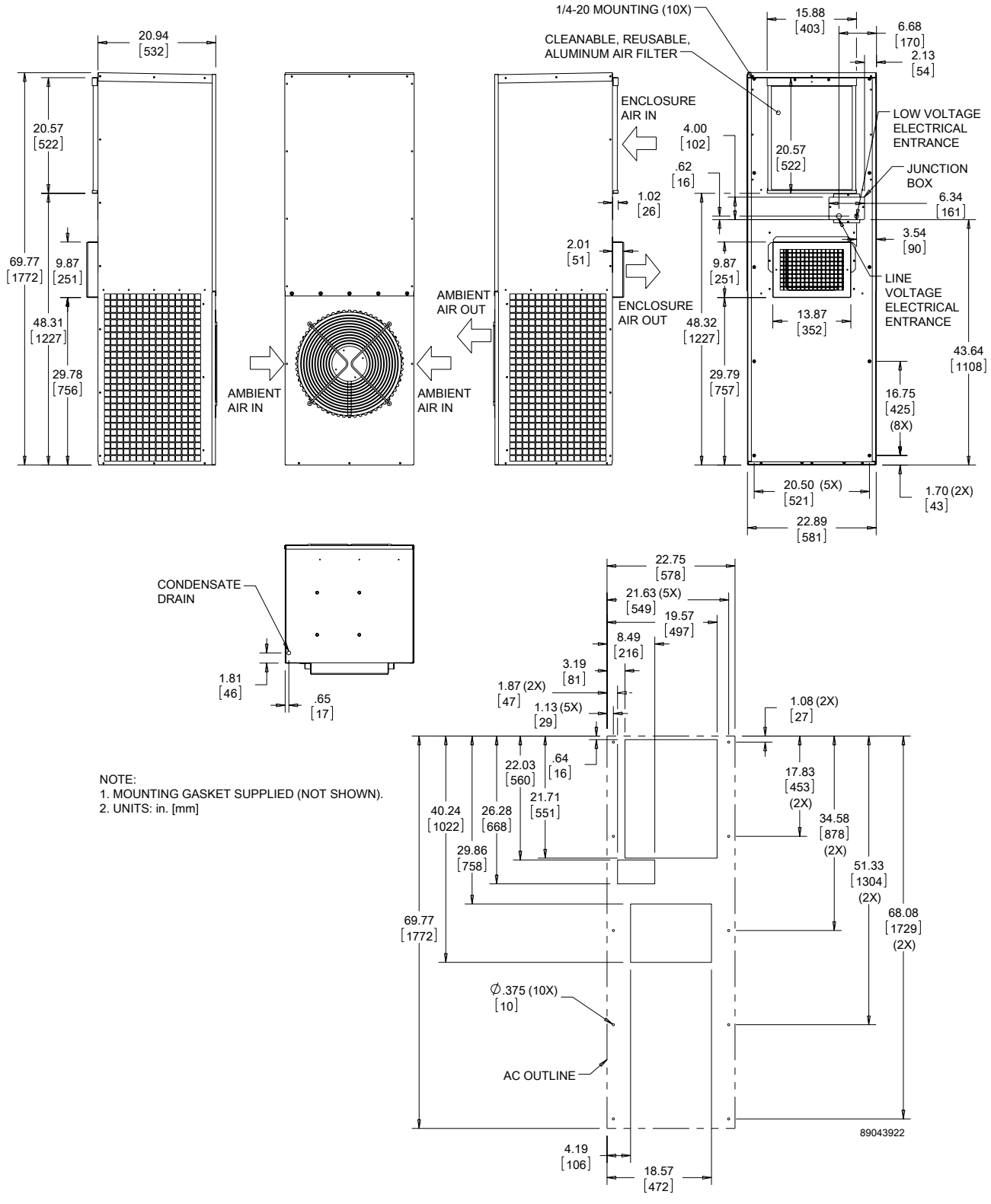
CATALOG NUMBER	T703626G150	T703646G400
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**39000/43000**	
Watts	**11430/12602**	
At 131 F/131 F (55 C/55 C):		
BTU/Hr. (50/60 Hz)	38613/42930	
W (50/60 Hz)	11316/12570	
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	31364/36130	
W (50/60 Hz)	9192/10579	
Refrigerant	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 Models 36000 BTU/Hr. (10548 Watt)



NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN).
2. UNITS: in. [mm]

Cutout Dimensions

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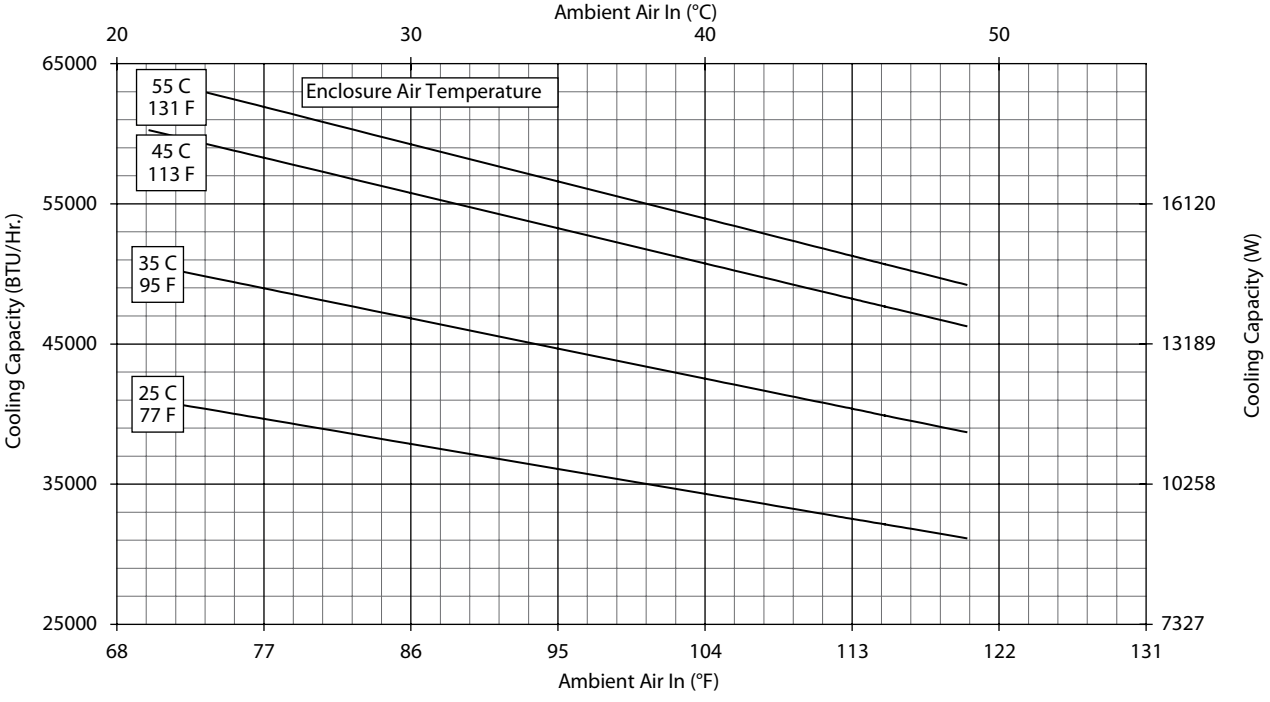
Performance Data **T70-60 59000 BTU/Hr. (17287 Watt) Models**

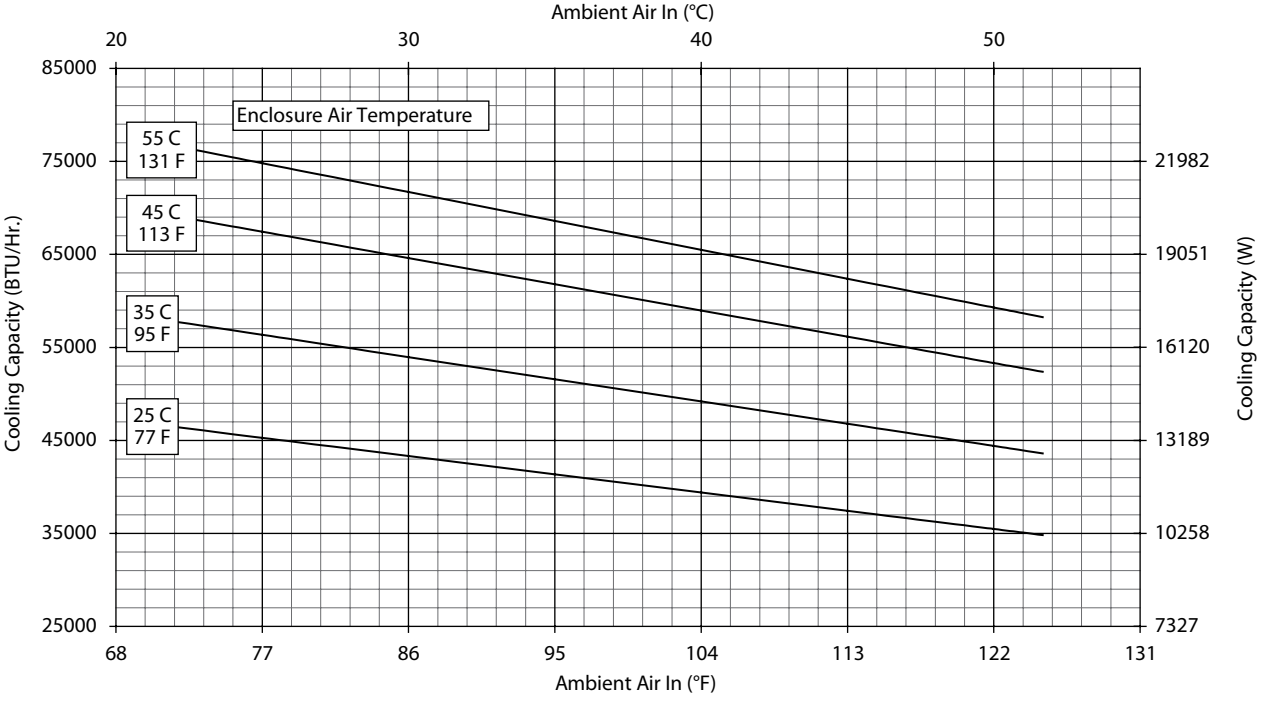
CATALOG NUMBER	T706026G150	T706046G400
COOLING PERFORMANCE		
Nominal:		
BTU/Hr.	**51900/60000**	
Watts	**15210/17584**	
At 122 F/122 F (50 C/50 C):		
BTU/Hr. (50/60 Hz)	51900/60000	
W (50/60 Hz)	15210/17584	
At 95 F/95 F (35 C/35 C):		
BTU/Hr. (50 /60 Hz)	47122/54500	
W (50/60 Hz)	13810/15972	
Refrigerant	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)

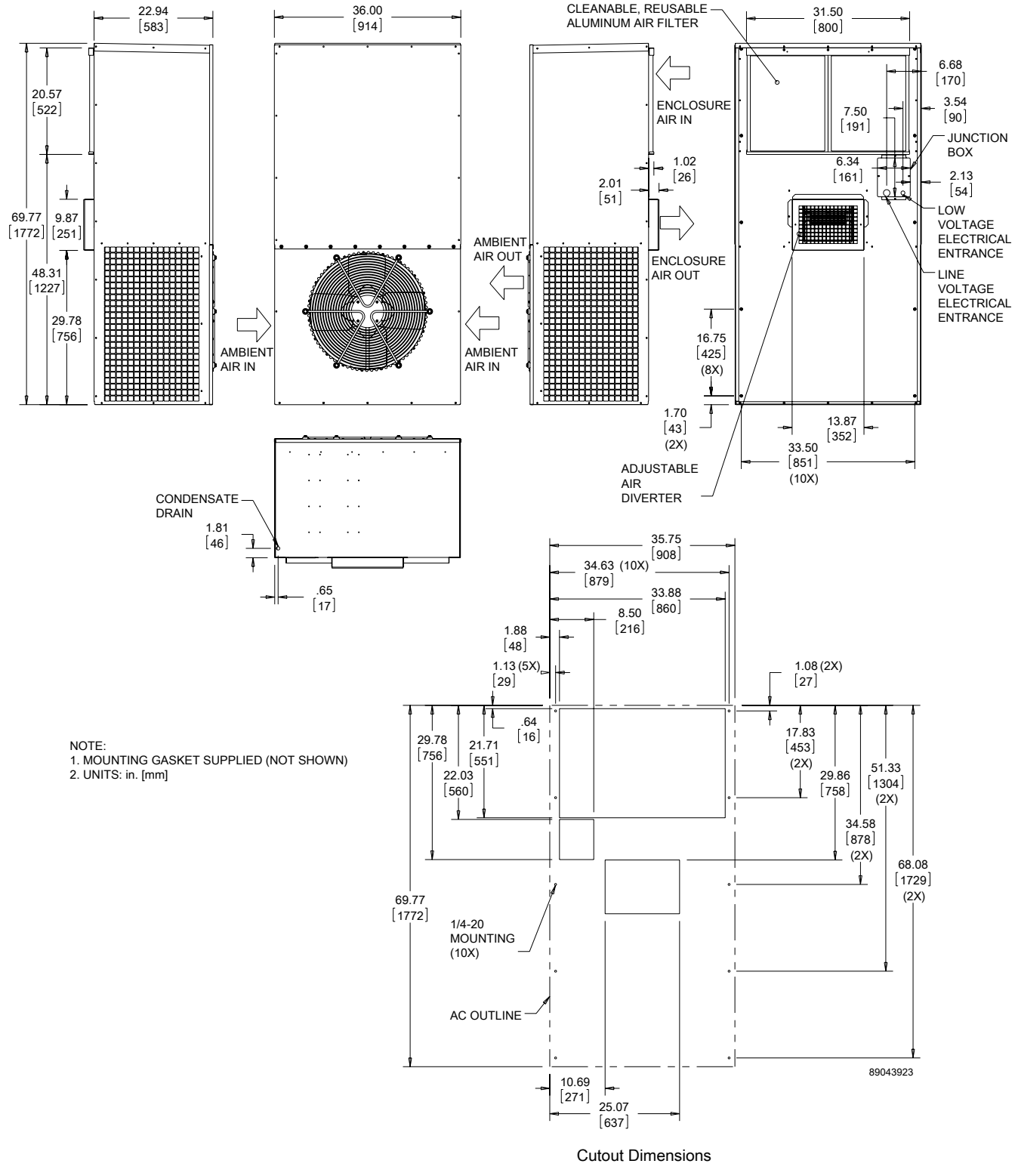
T70-60X6-GXXX R-407c Capacity Curves 50 Hz



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

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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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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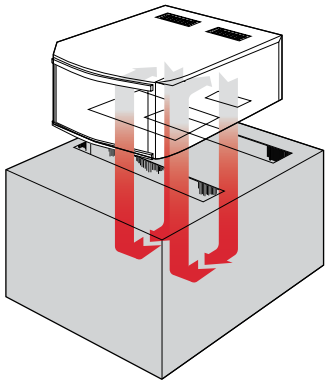


Top-Mount to Enclosure

Performance Data **MHB11 Models 2200 BTU/Hr. (645 Watt)**

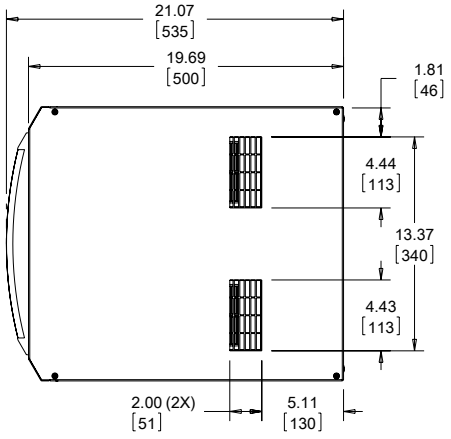
CATALOG NUMBER	MHB110216G306	MHB110226G306	MHB110246G400
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**2200/2200**	**2200/2200**	**2200/2200**
Watts	**645/645**	**645/645**	**645/645**
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	11/312	11/312	11/312
Operating Temperature Range:			
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

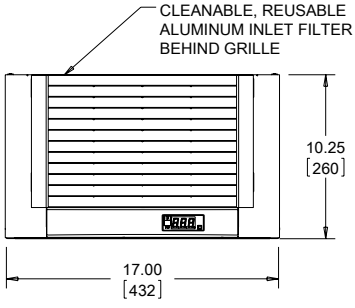
Performance Data **MHB11 Models 4000 BTU/Hr. (1172 Watt)**

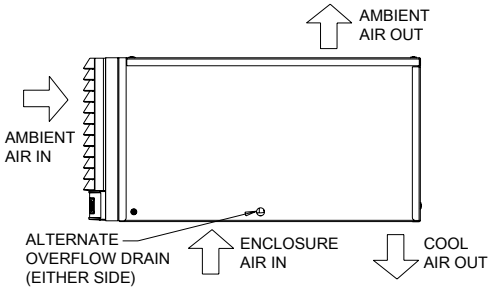
CATALOG NUMBER	MHB110416G307	MHB110426G306	MHB110446G400
COOLING PERFORMANCE			
Nominal:			
BTU/Hr.	**3300/4000**	**3300/4000**	**3300/4000**
Watts	**967/1172**	**967/1172**	**967/1172**
Refrigerant	R-134A	R-134A	R-134A
Refrigerant Charge (ounces/grams)	13/369	13/369	13/369
Operating Temperature Range:			
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

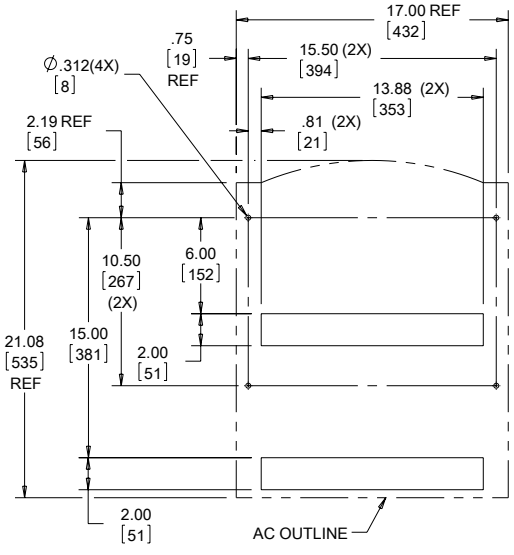
MHB11 Models 2200-4000 BTU/Hr. (645-1172 Watt)

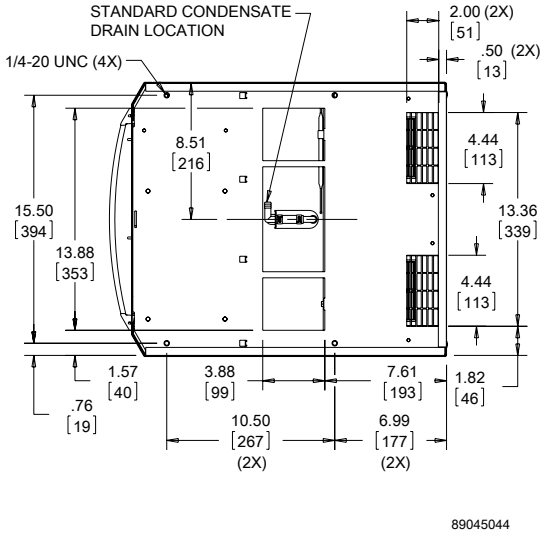
NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]
3. CUTOUT DIMENSIONS FOR STANDARD UNITS ONLY











Cutout Dimensions

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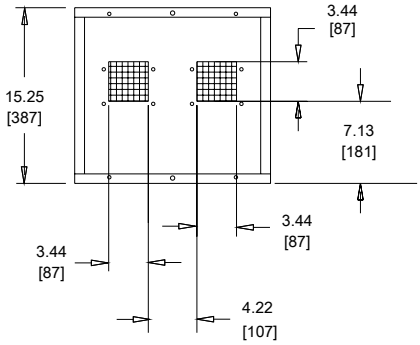
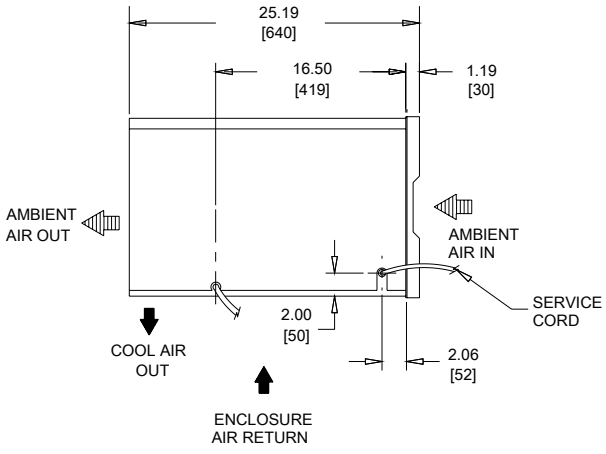
Performance Data **HB16 Models 8000 BTU/Hr. (2051 Watt)**

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

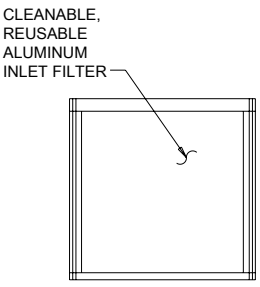
HB16 Models 8000 BTUs/Hr. (2051 Watts)



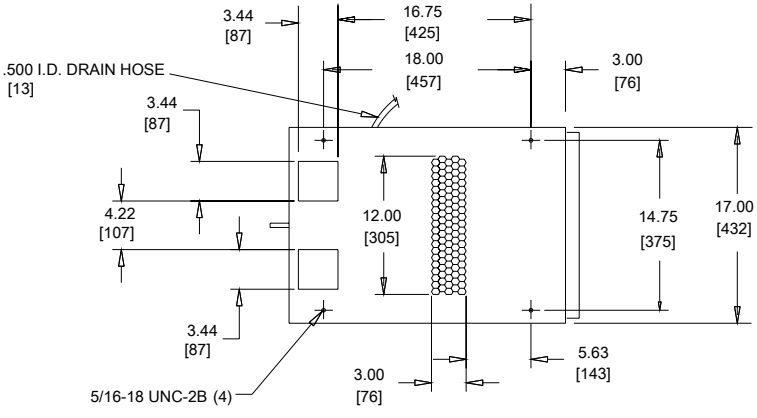
Rear View



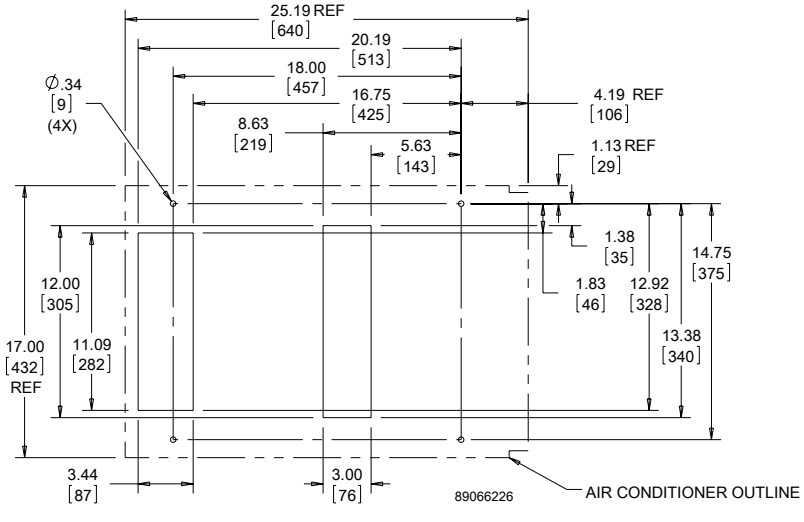
Side View



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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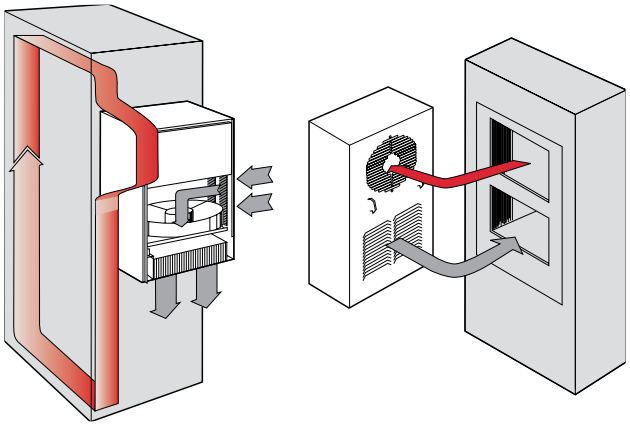
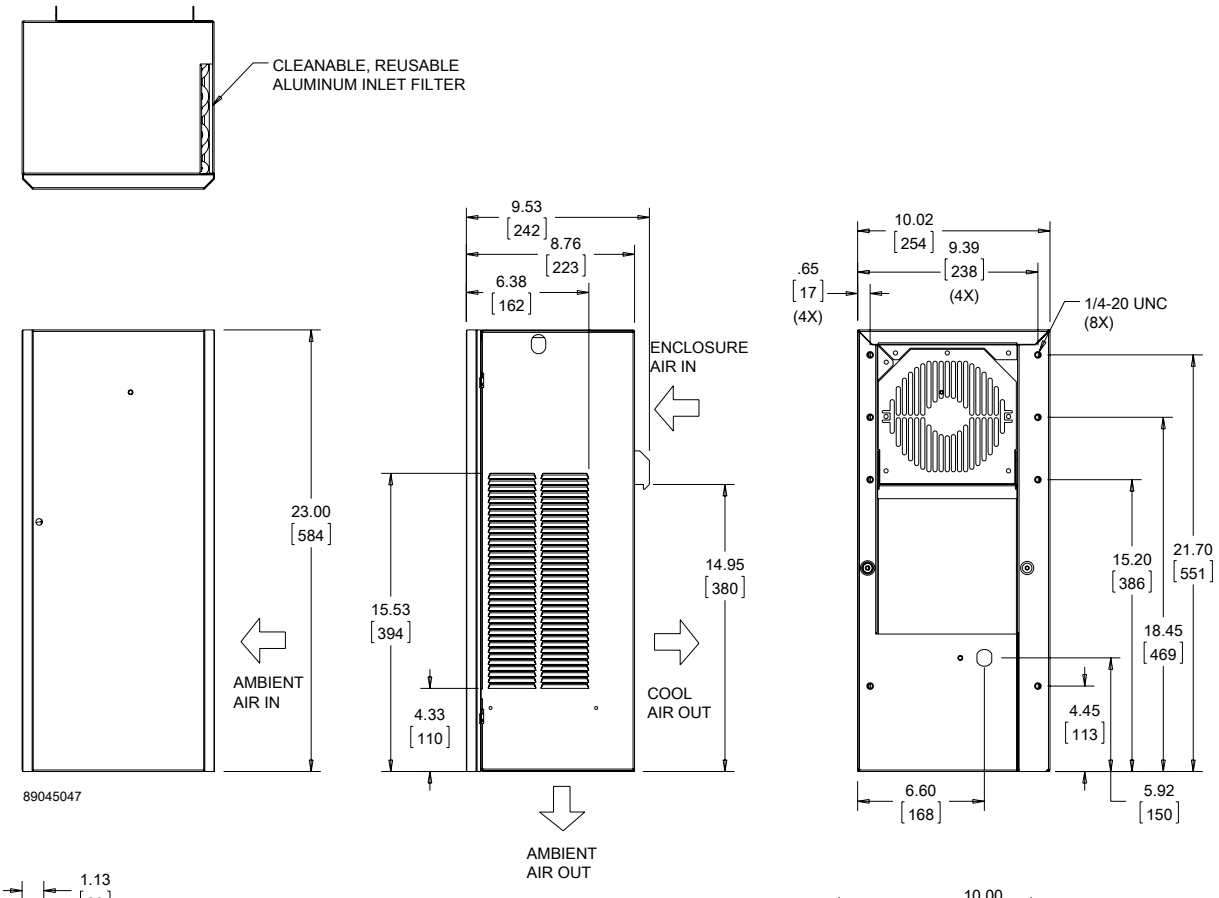
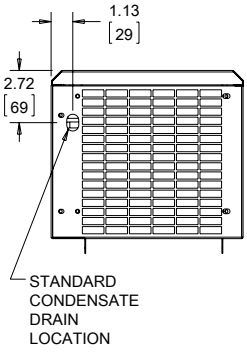
Performance Data **CR23 Models 1600 BTU/Hr. (469 Watt)**

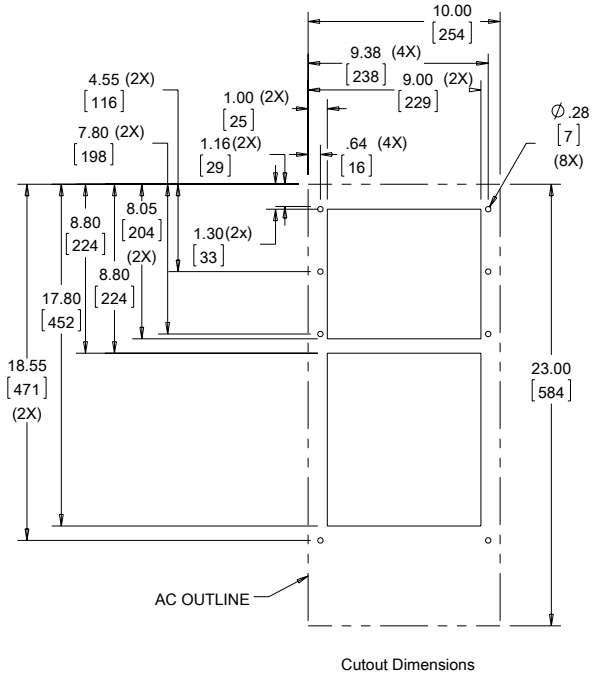
CATALOG NUMBER			
Indoor Model	CR230216G002	CR230226G002	CR230246G400
Indoor Level 2 Controller	CR230216G016	—	—
Outdoor Type 3R	CR230216G013	CR230226G030	—
Outdoor/SST/Corrosion Type 3R	CR230216G007	CR230226G009	—
Outdoor/SST/Level 2 Type 3R	CR230216G017	CR230226G016	—
Indoor/Outdoor/SST/Corrosion Type 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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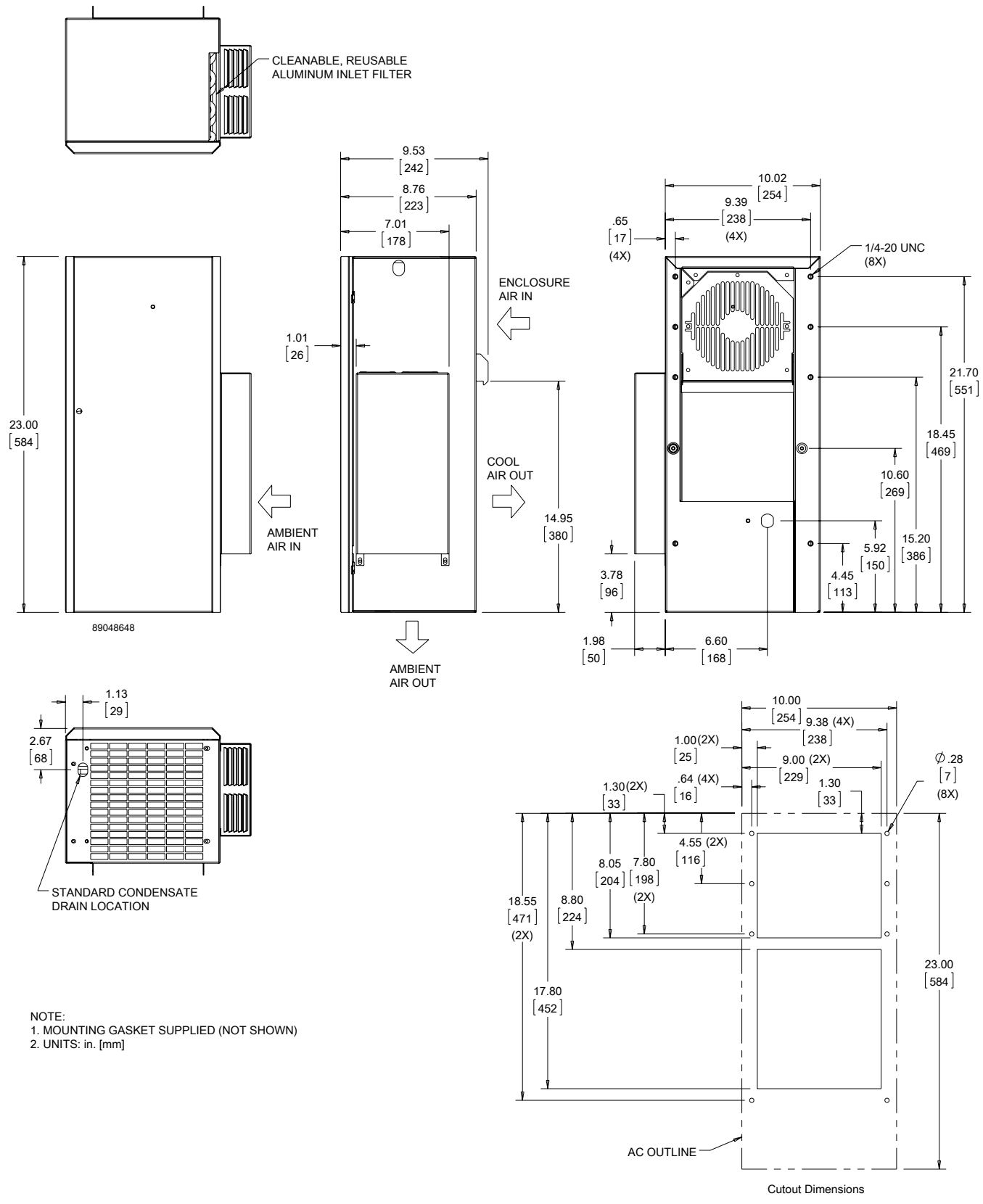
CR23 Models 1600 BTU/Hr. (469 Watt) With Type 4X Hood



Cutout Dimensions

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]

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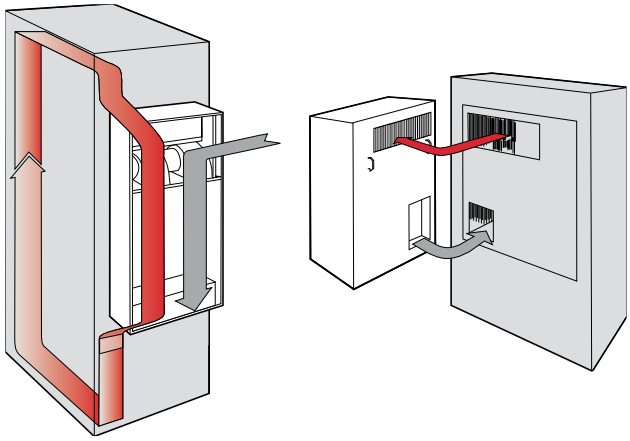
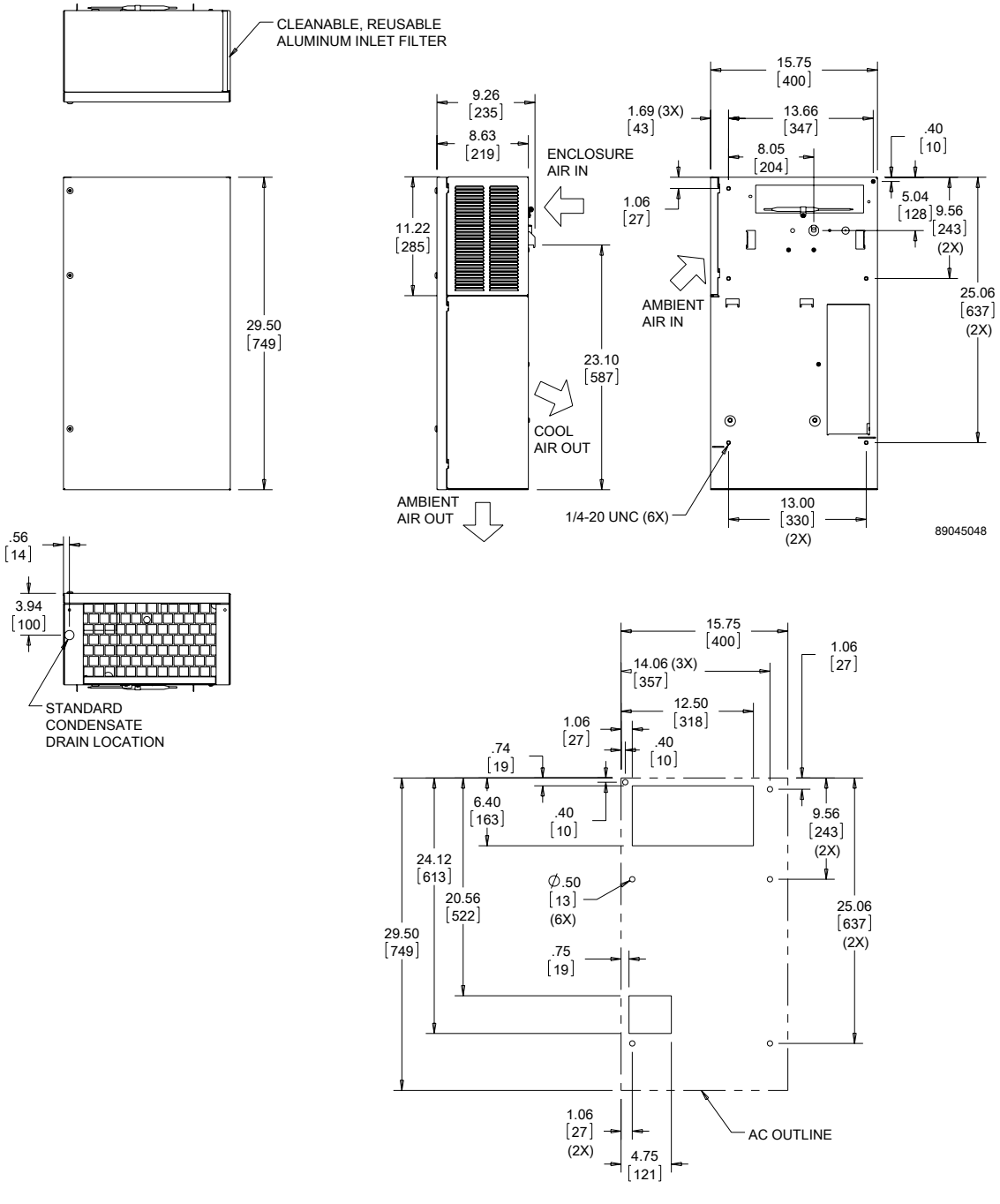
Performance Data **CR29 Models 2700/4000 BTU/Hr. (791/1172 Watt)**

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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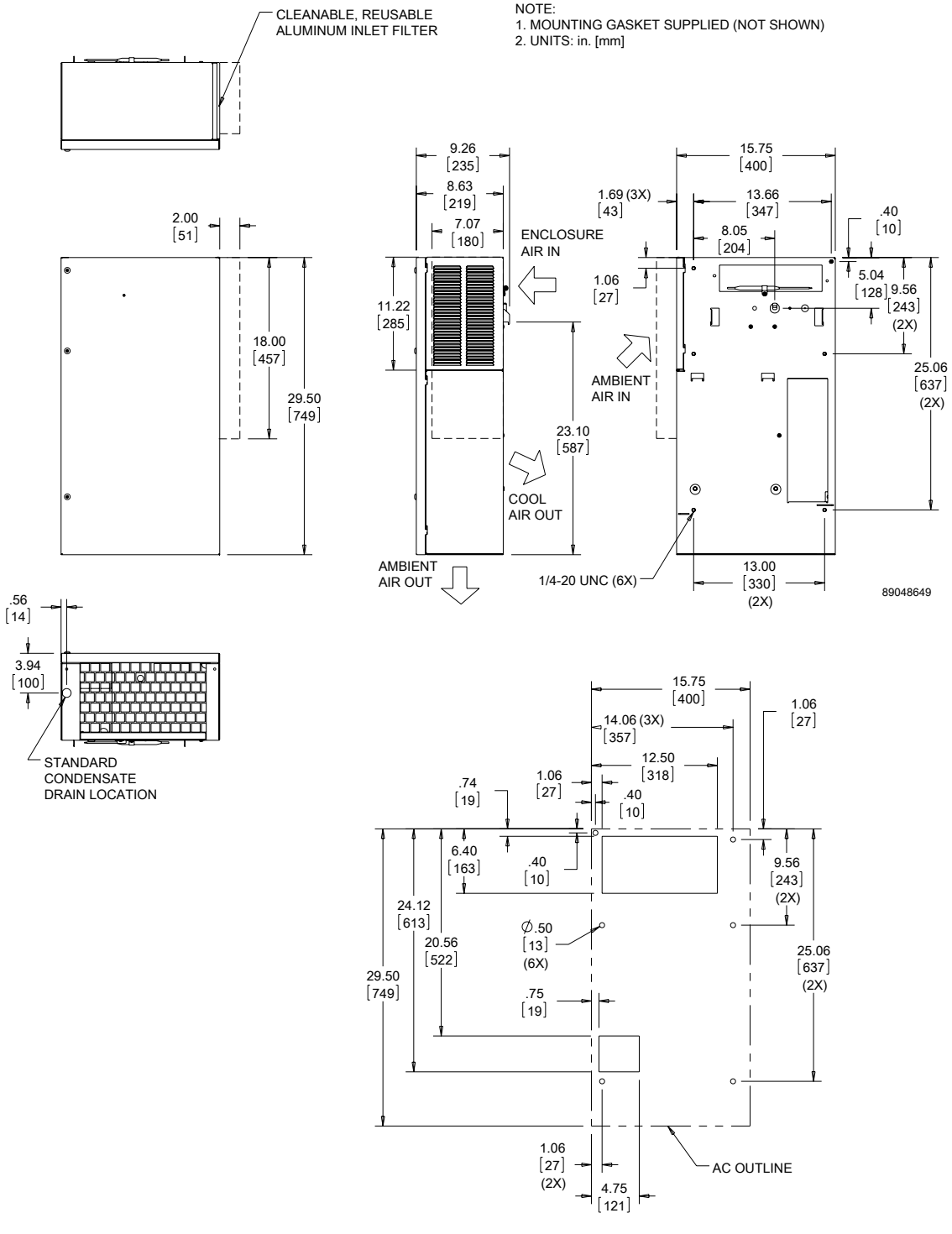
CR29 Models 2700/4000 BTU/Hr. (791/1172 Watt) With Type 4X Hood



Cutout Dimensions

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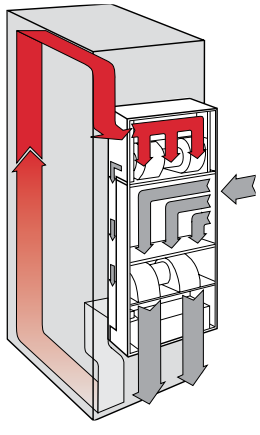
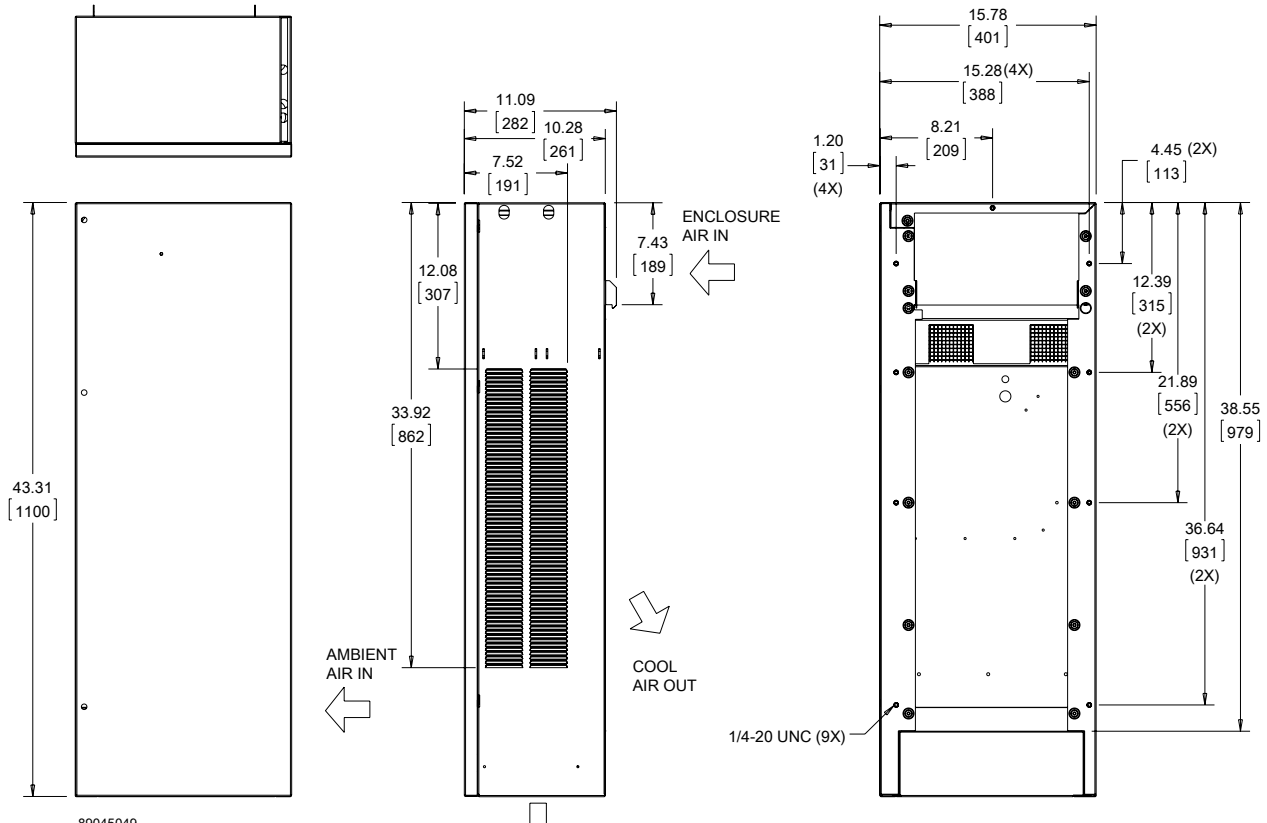
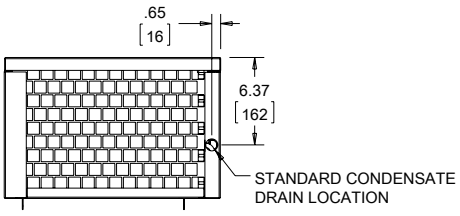
Performance Data **CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt)**

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

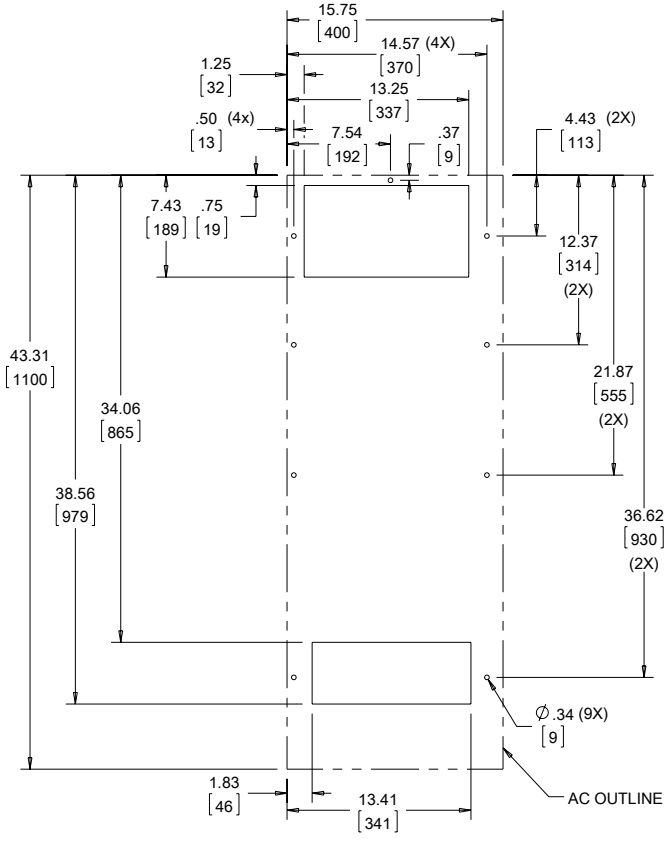


CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt)





NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]



Cutout Dimensions

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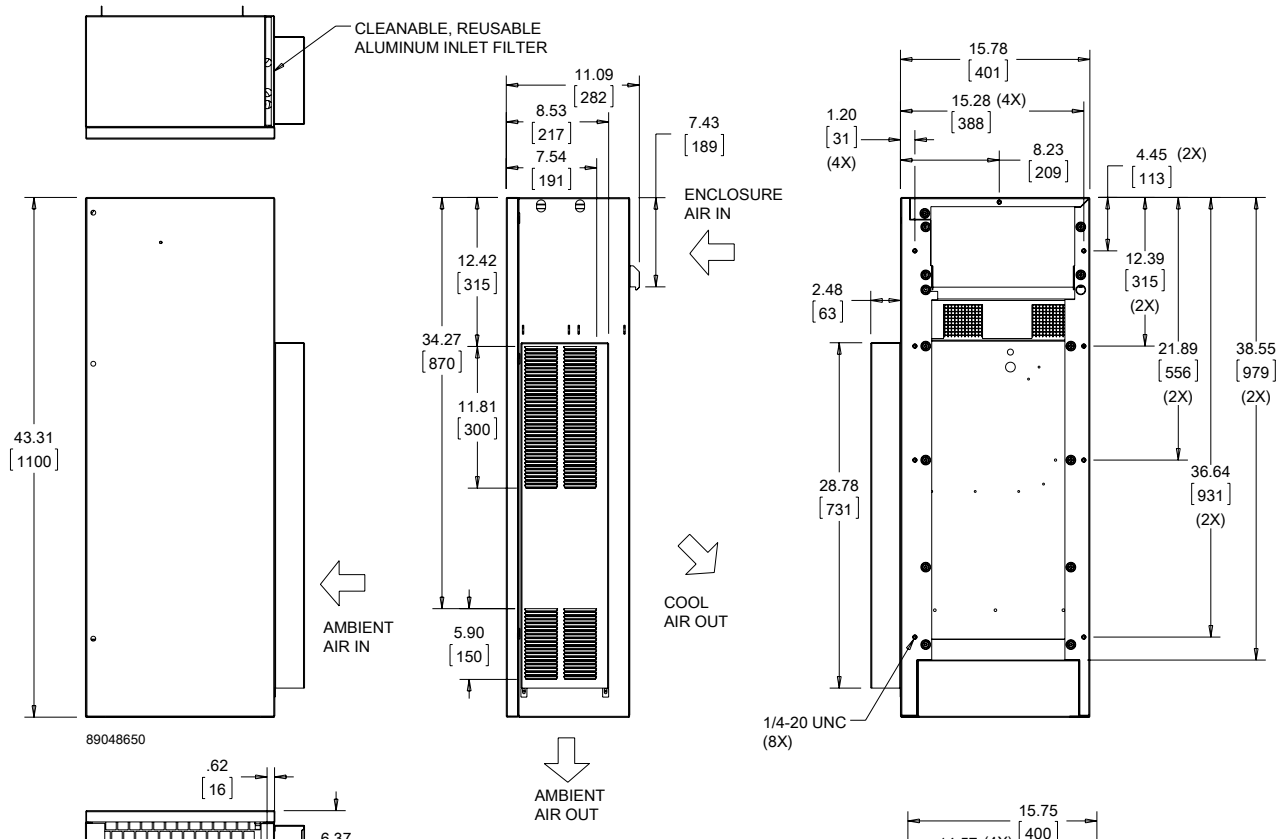
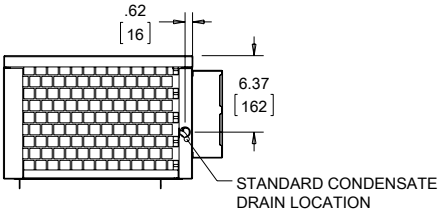
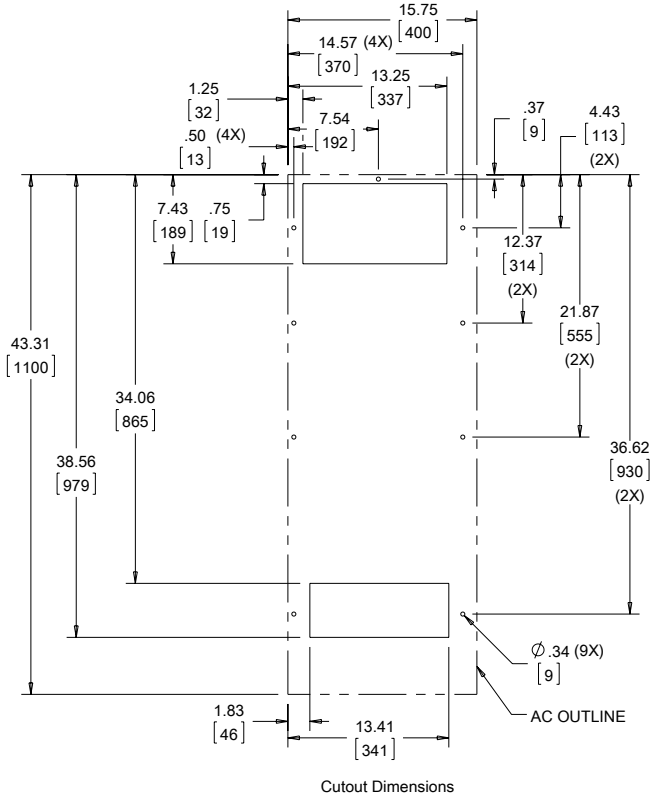
CR43 Models 6000/8000 BTU/Hr. (1758/2344 Watt) With Type 4X Hood







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

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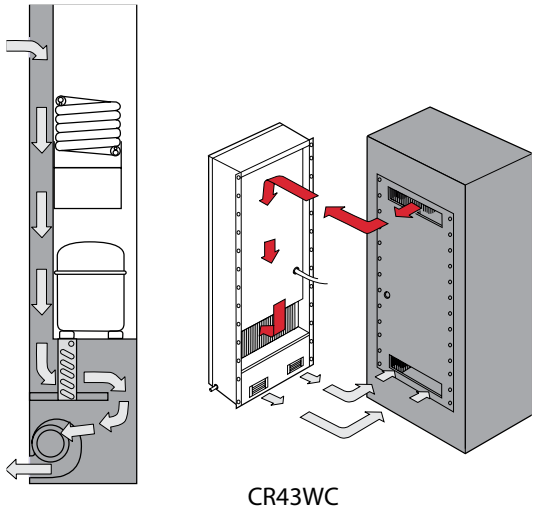
INDUSTRY STANDARDS

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

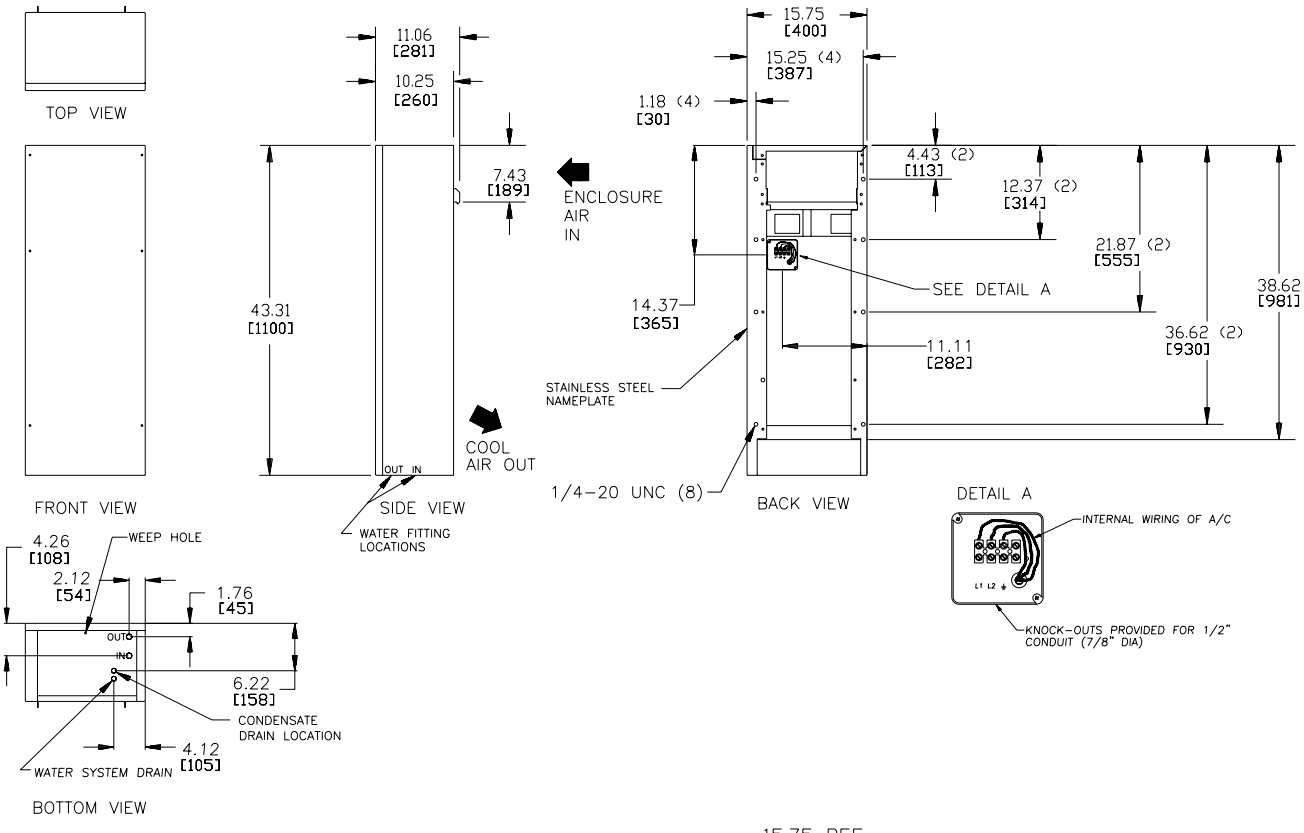


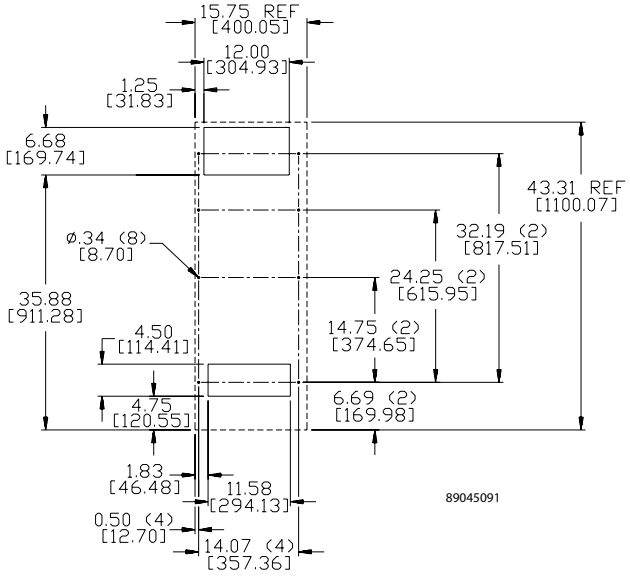
CR43WC

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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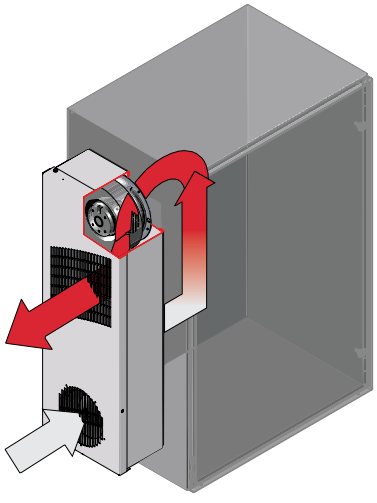
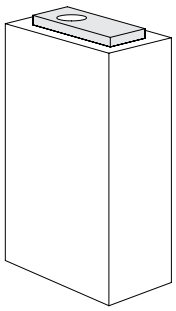


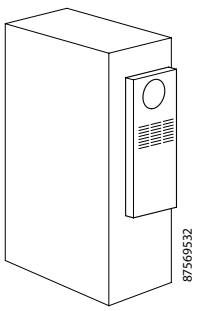
Performance Data **XR20 Models 4 W/°F (7 W/°C)**

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

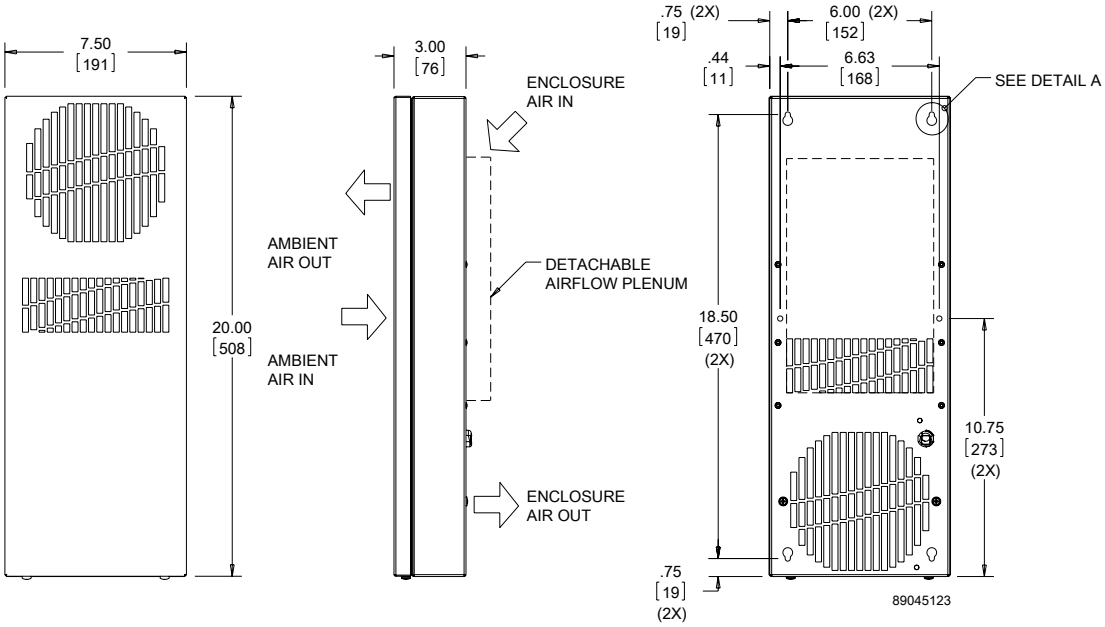


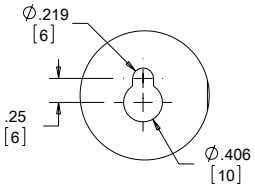
External
Top-Mount



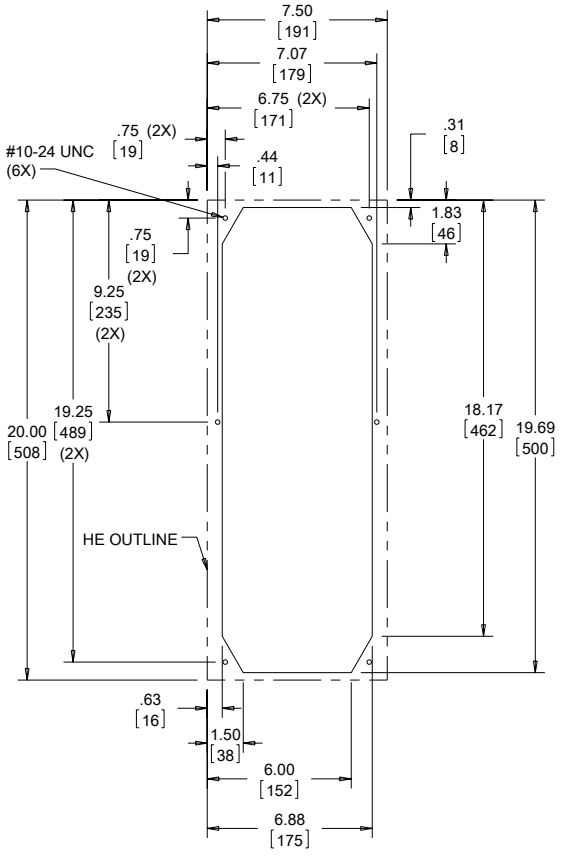
External
Vertical-Mount

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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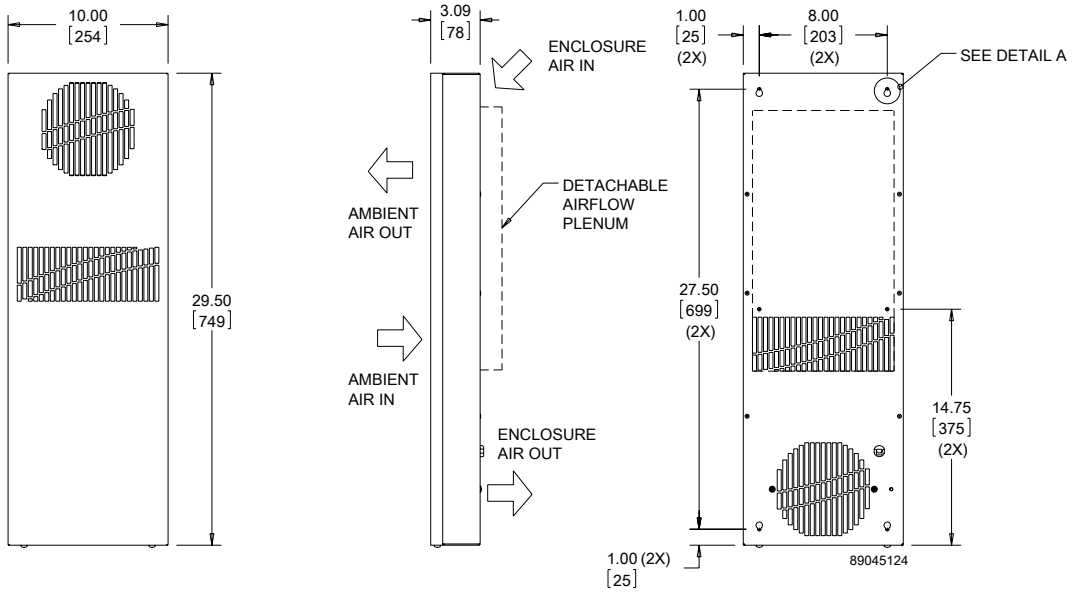
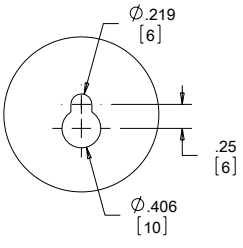
Performance Data **XR29 Models 8 W/°F (14 W/°C)**

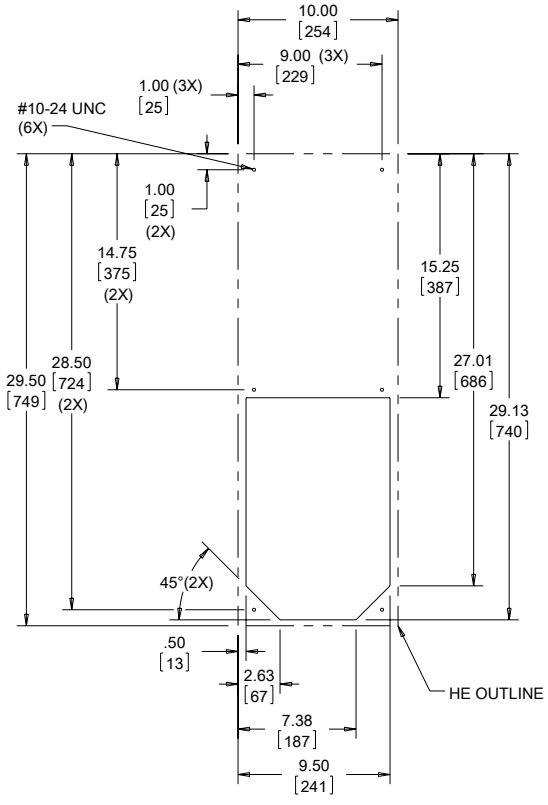
CATALOG NUMBER	XR290816012	XR290826012
COOLING PERFORMANCE		
Nominal:		
W per °F	**8**	**8**
W per °C	**14**	**14**
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	5.5/156	5.5/156
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static 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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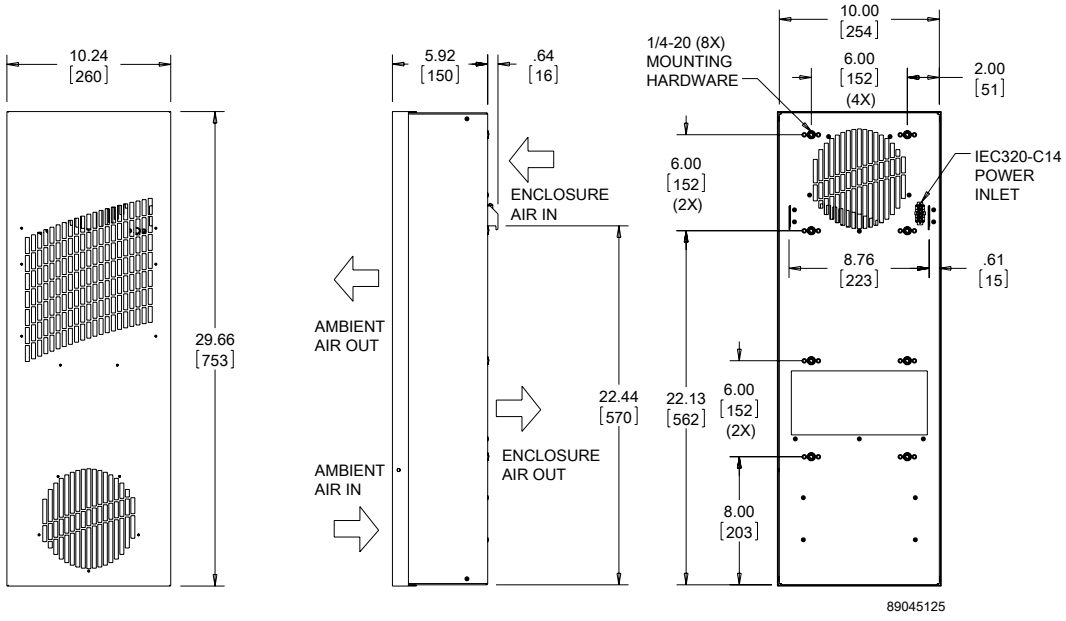
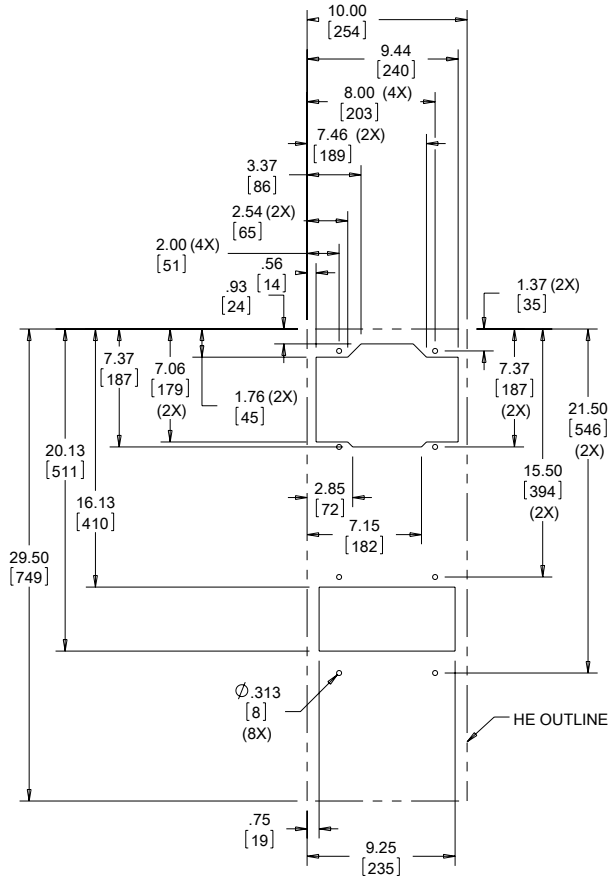
Performance Data **XR29 Models 18 W/°F (32 W/°C)**

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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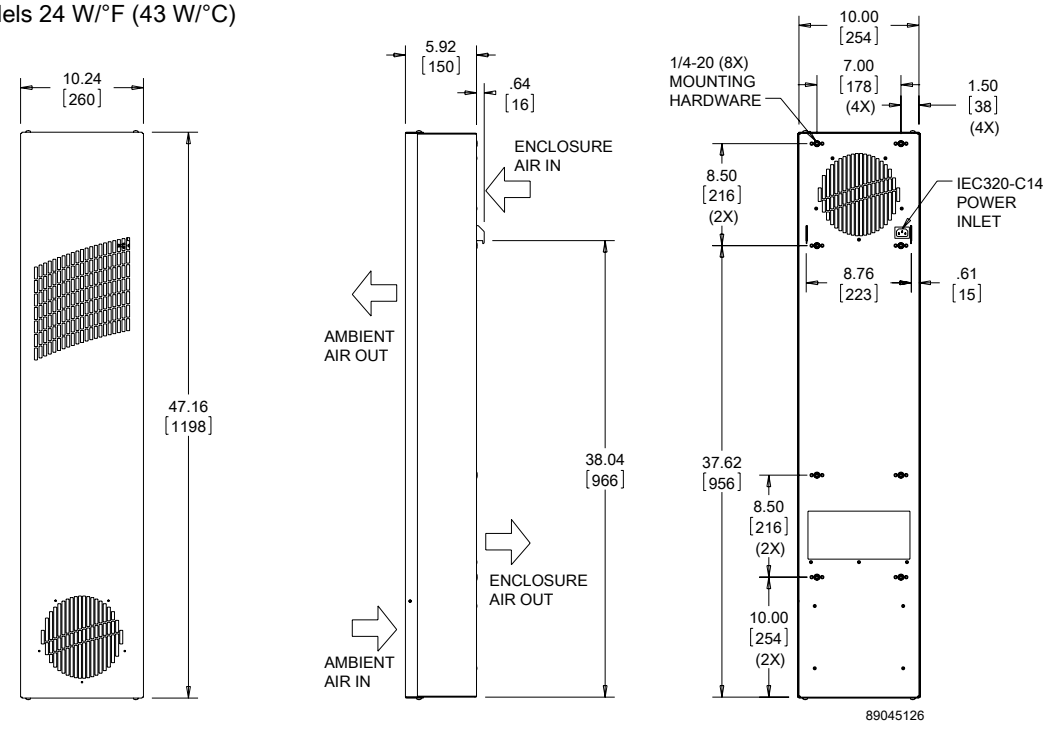
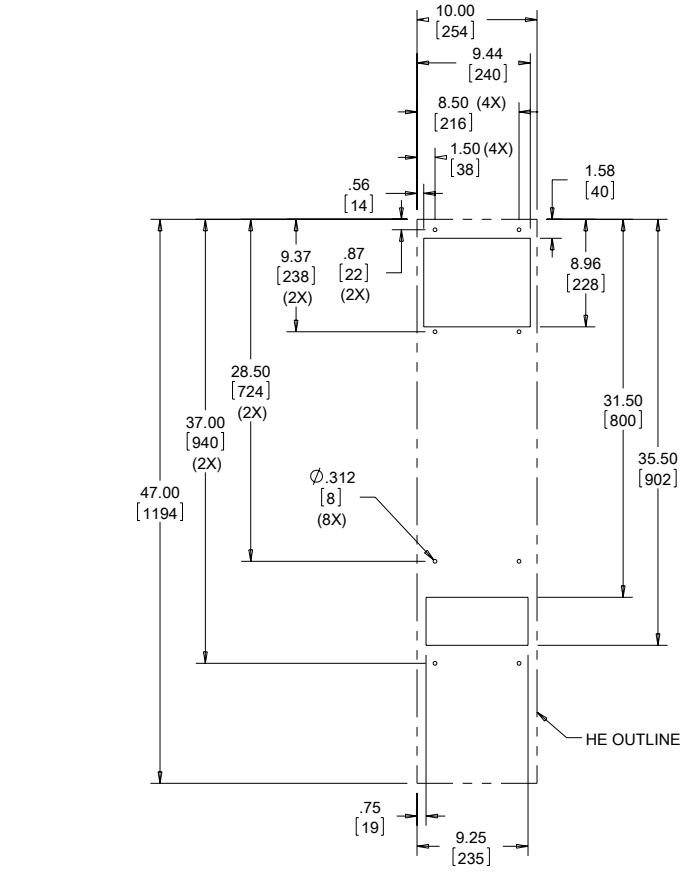
Performance Data **XR47 Models 24 W/°F (43 W/°C)**

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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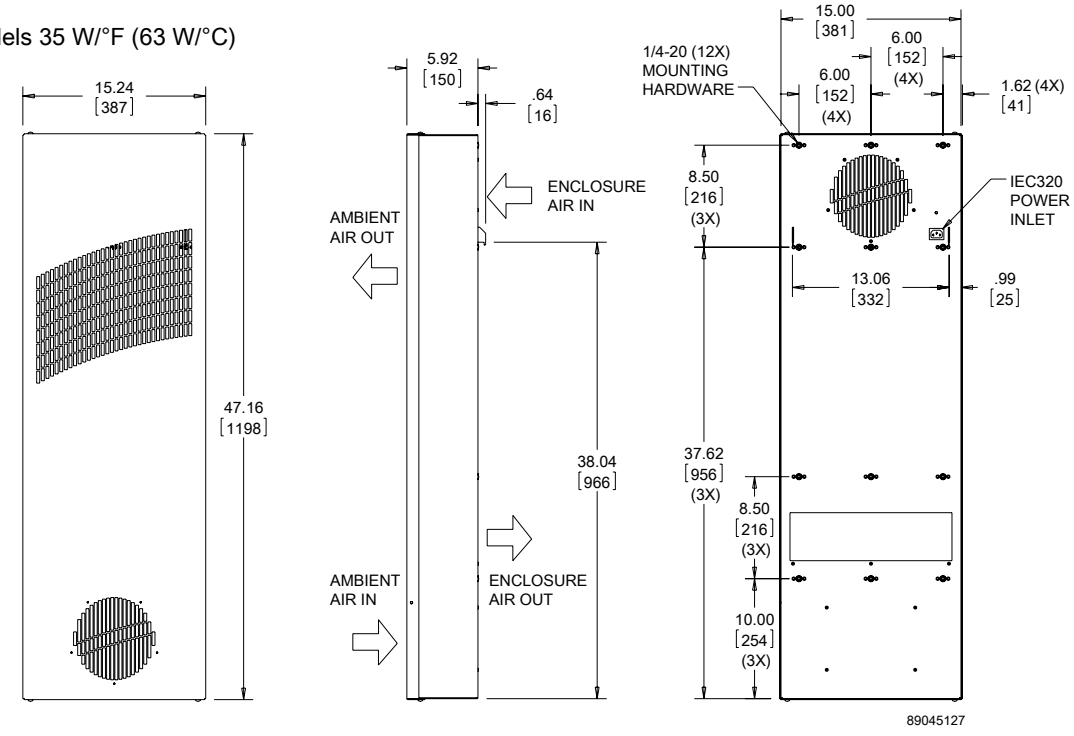
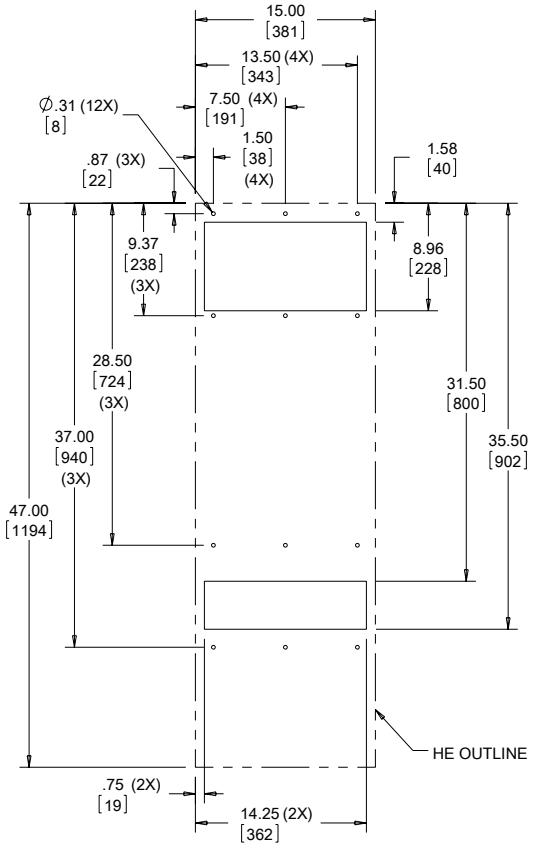
Performance Data **XR47 Models 35 W/°F (63 W/°C)**

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



Cutout Dimensions

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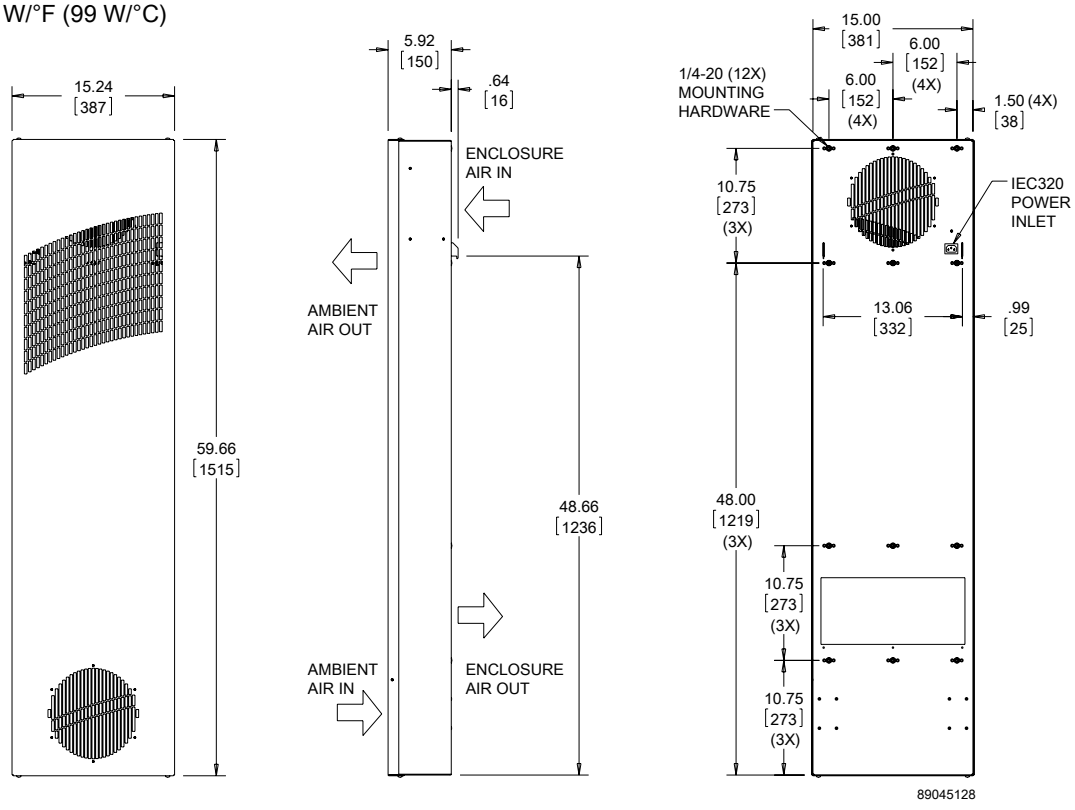
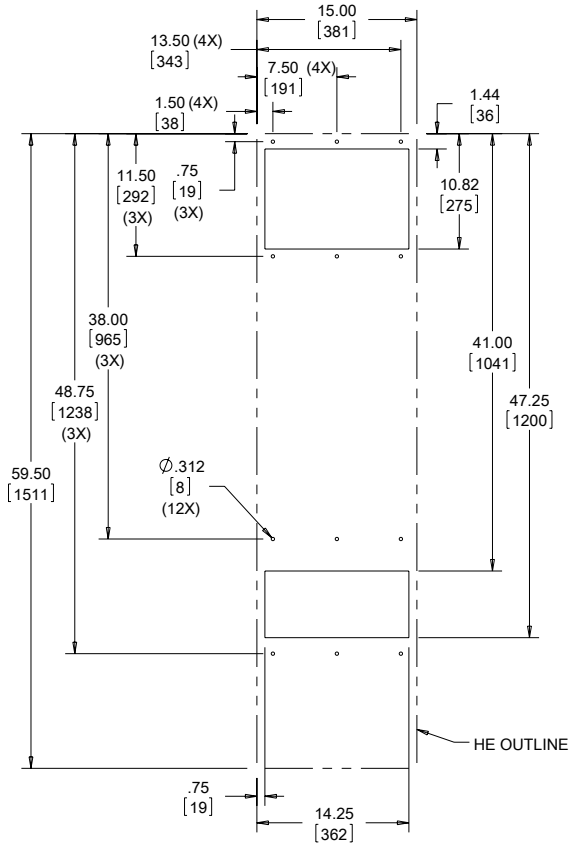
Performance Data **XR60 Models 55 W/°F (99 W/°C)**

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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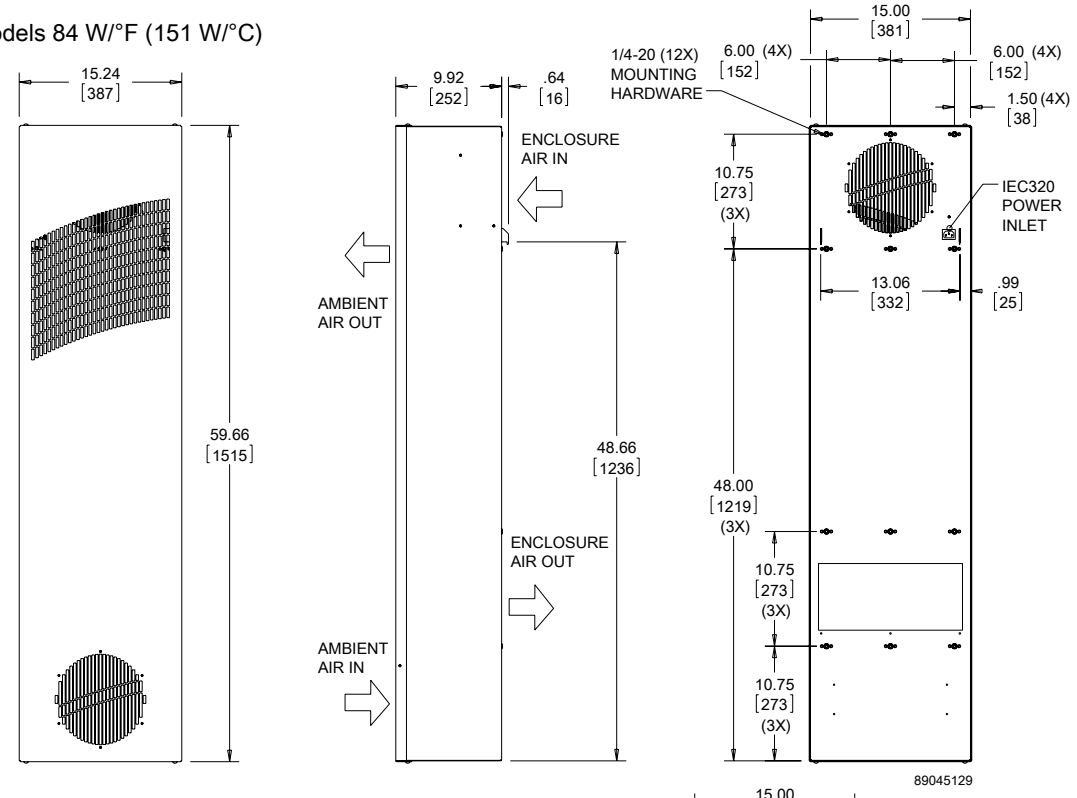
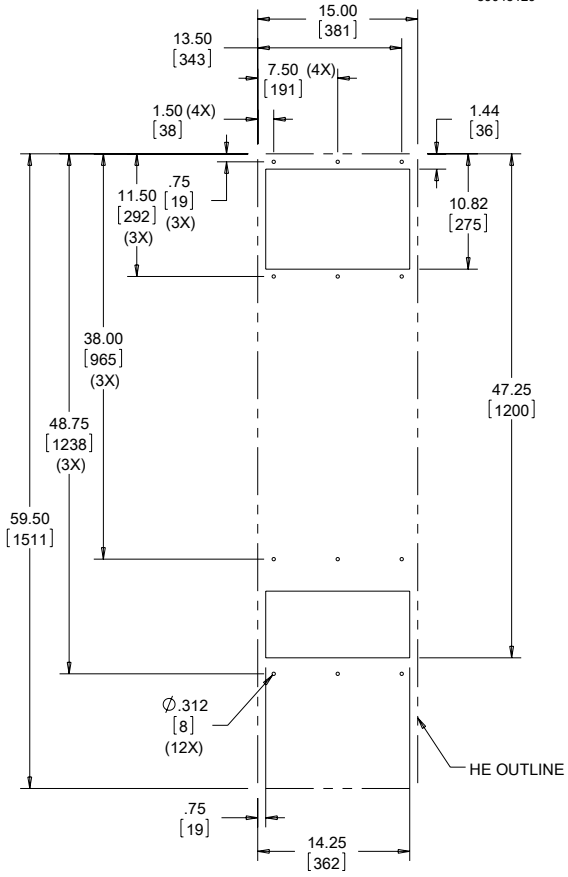
Performance Data **XR60 Models 84 W/°F (151 W/°C)**

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



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Notes

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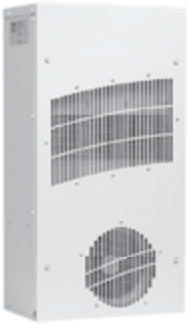
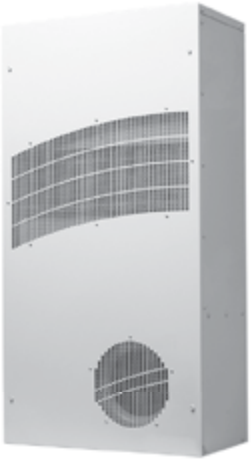
CLIMAGUARD AIR-TO-AIR OUTDOOR

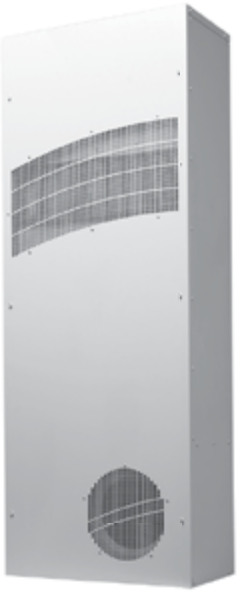


TX23
Models
14 W/°F (25 W/°C)

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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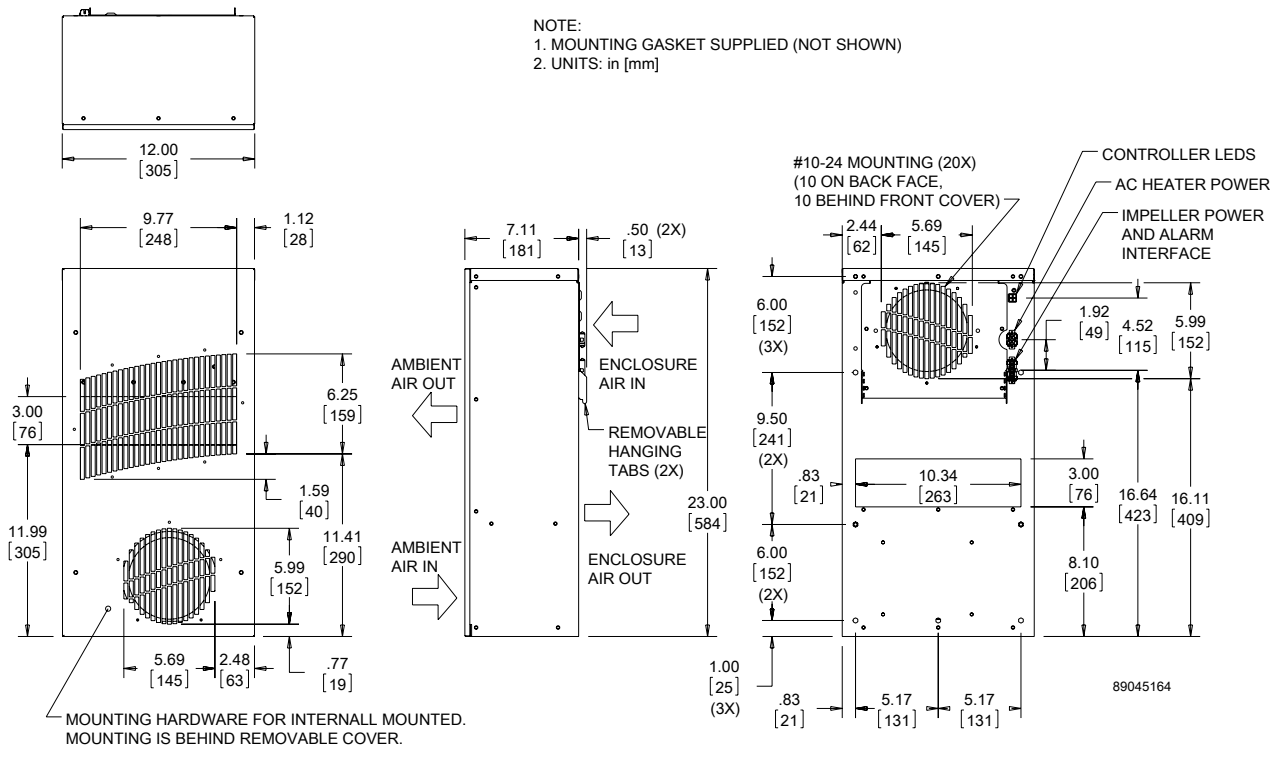
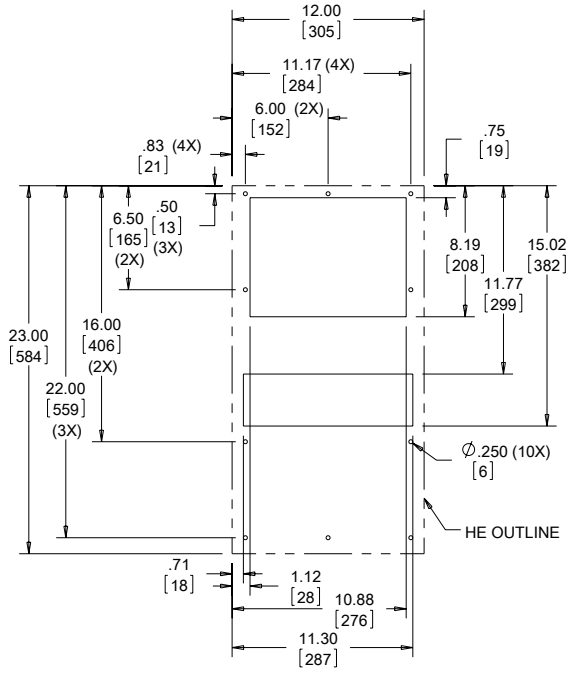
Performance Data **TX23 Models 14 W/°F (25 W/°C)**

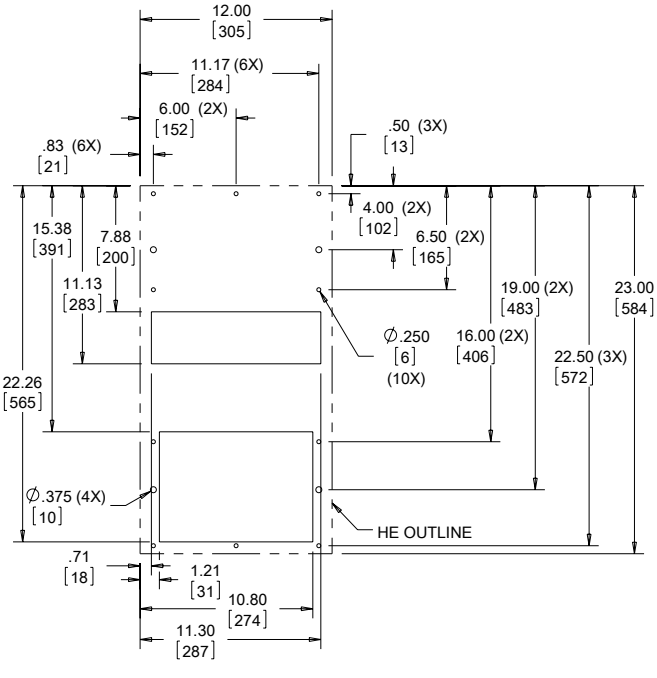
CATALOG NUMBER	TX231416100	TX231426100	TX231424100	TX231448100
COOLING PERFORMANCE				
Nominal:				
W per °F	**14**	**14**	**14**	**14**
W per °C	**25**	**25**	**25**	**25**
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range				
Maximum (°F/°C)	149/65	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

TX23 DC Models 14 W/°F (25°C)





CUTOUT DIMENSIONS
(EXTERNAL MOUNT)



CUTOUT DIMENSIONS
(INTERNAL MOUNT)

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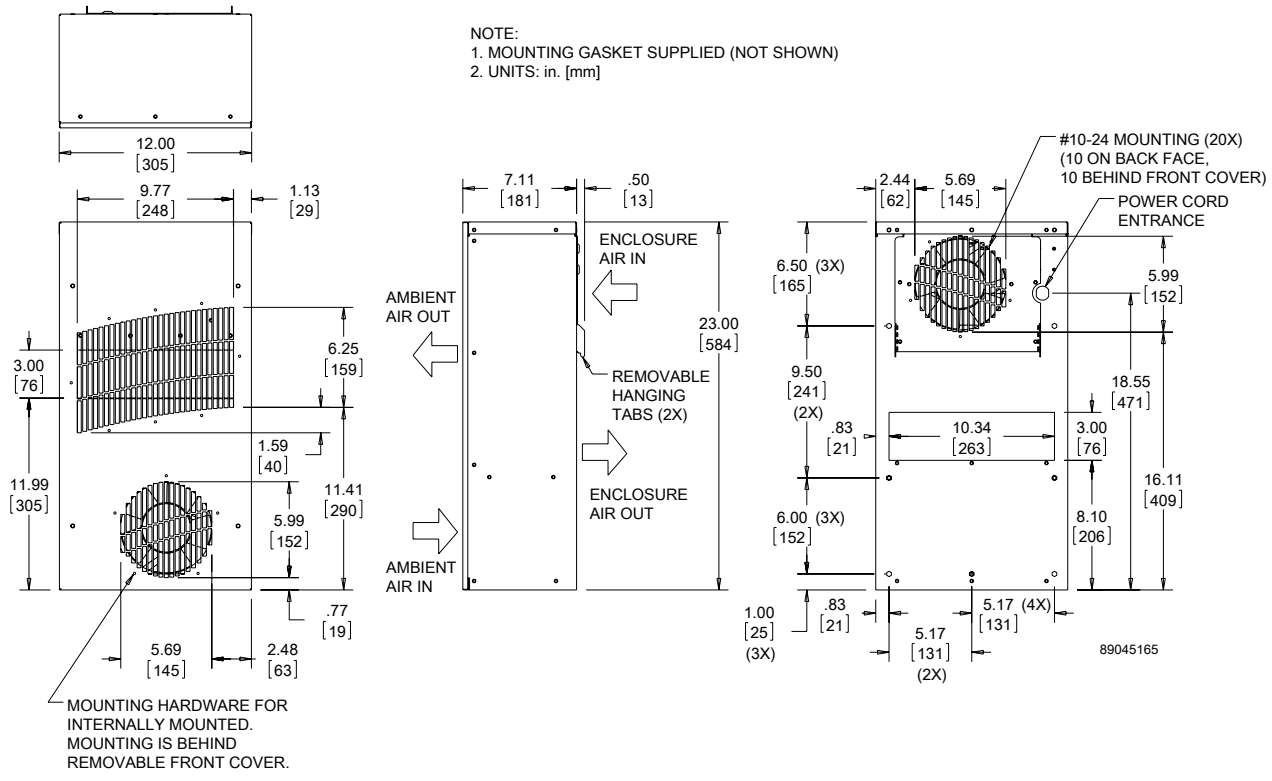
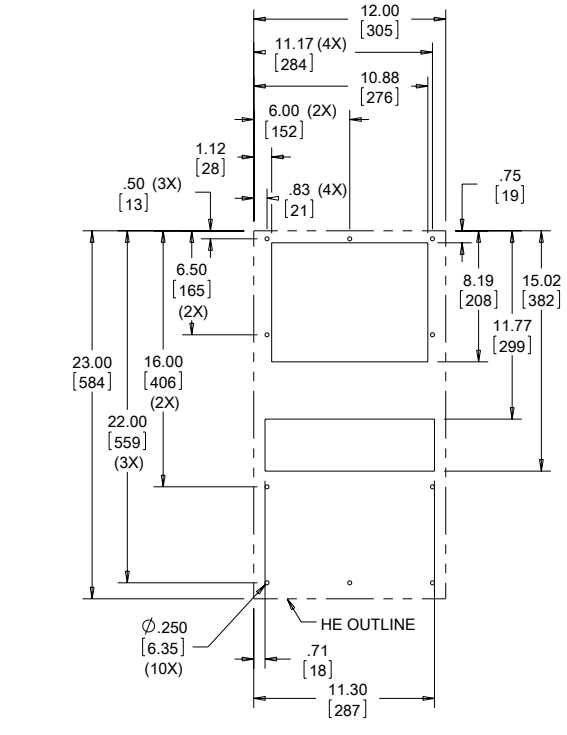
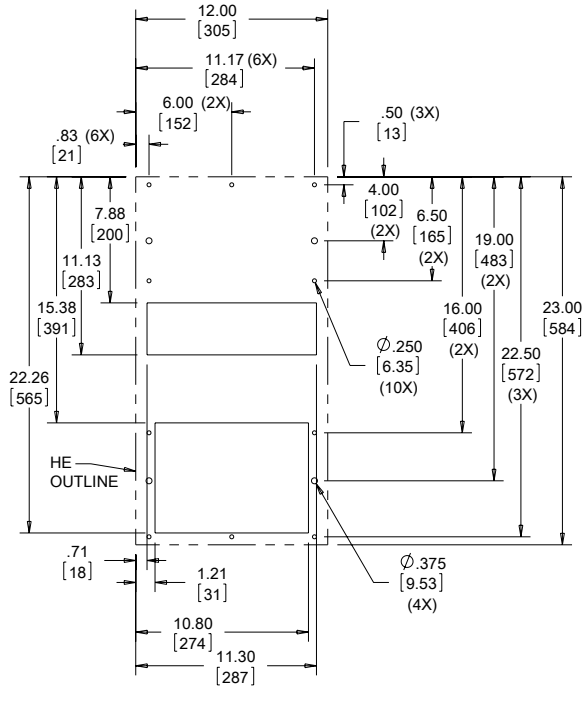
TX23 AC Models 14W/°F (25 W /°C)





CUTOUT DIMENSIONS (EXTERNAL MOUNT)



CUTOUT DIMENSIONS (INTERNAL MOUNT)

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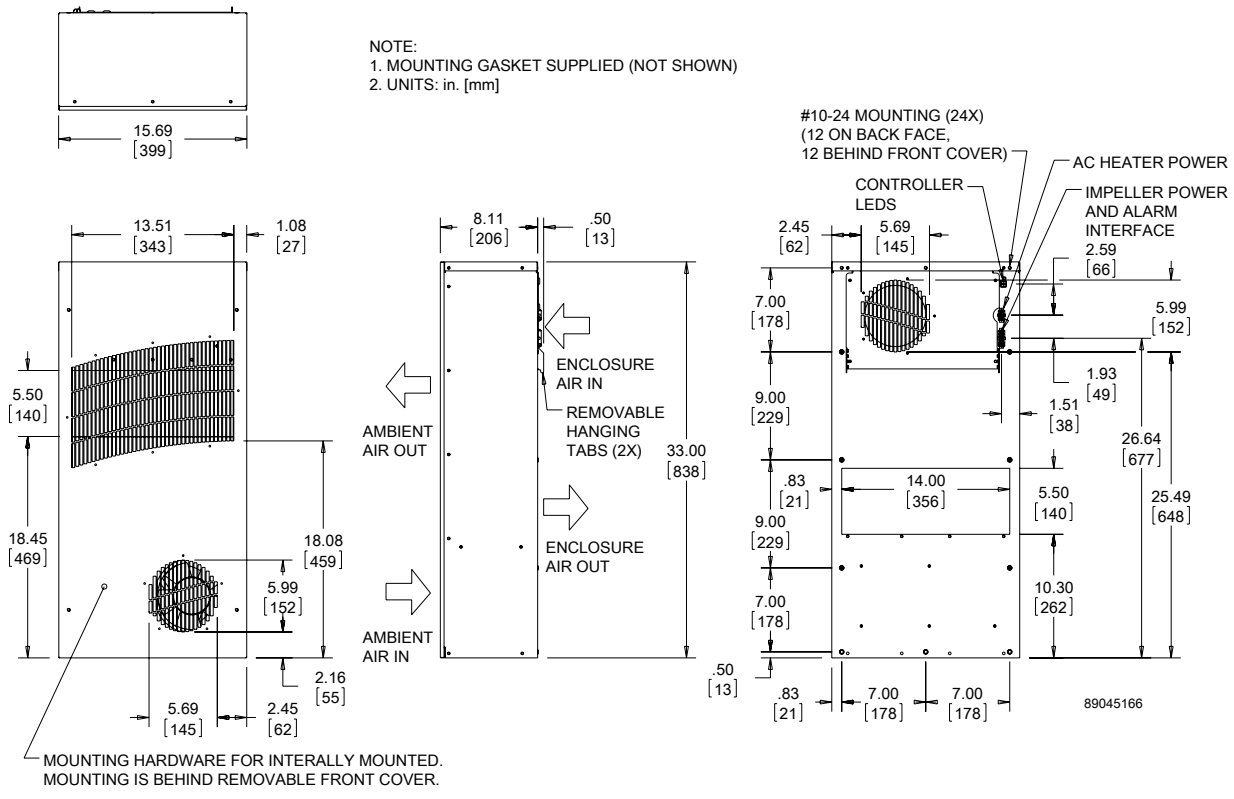
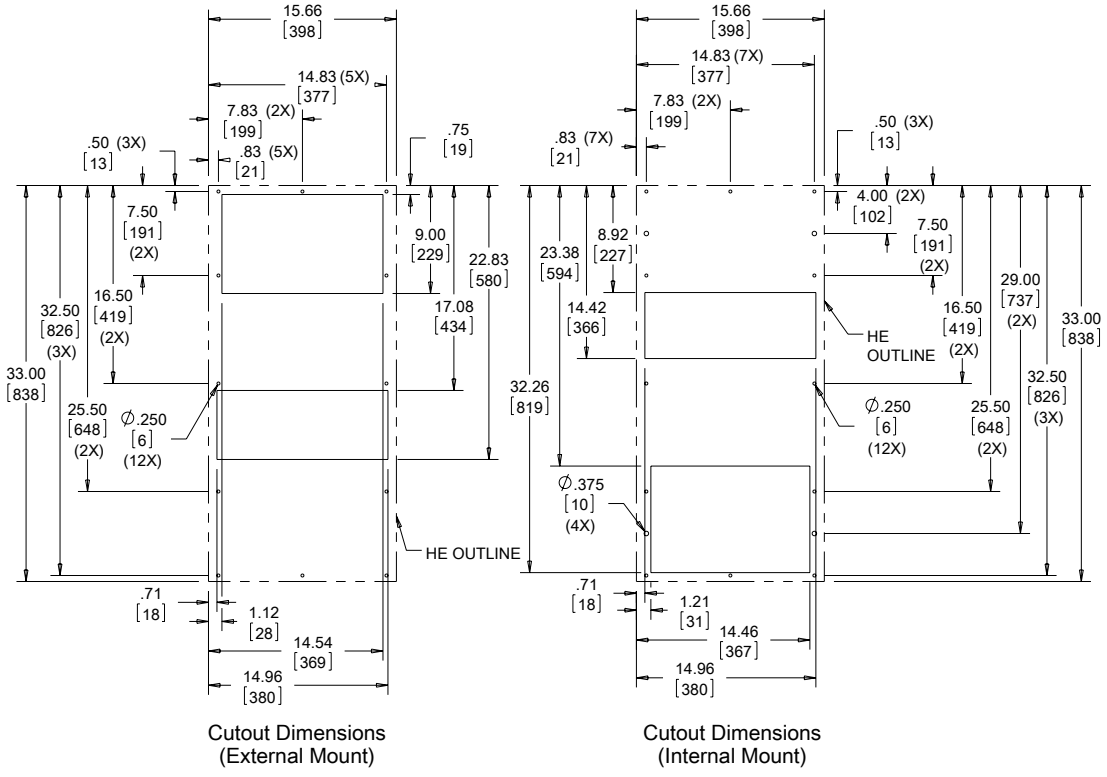
Performance Data **TX33 Models 28 W/°F (50 W/°C)**

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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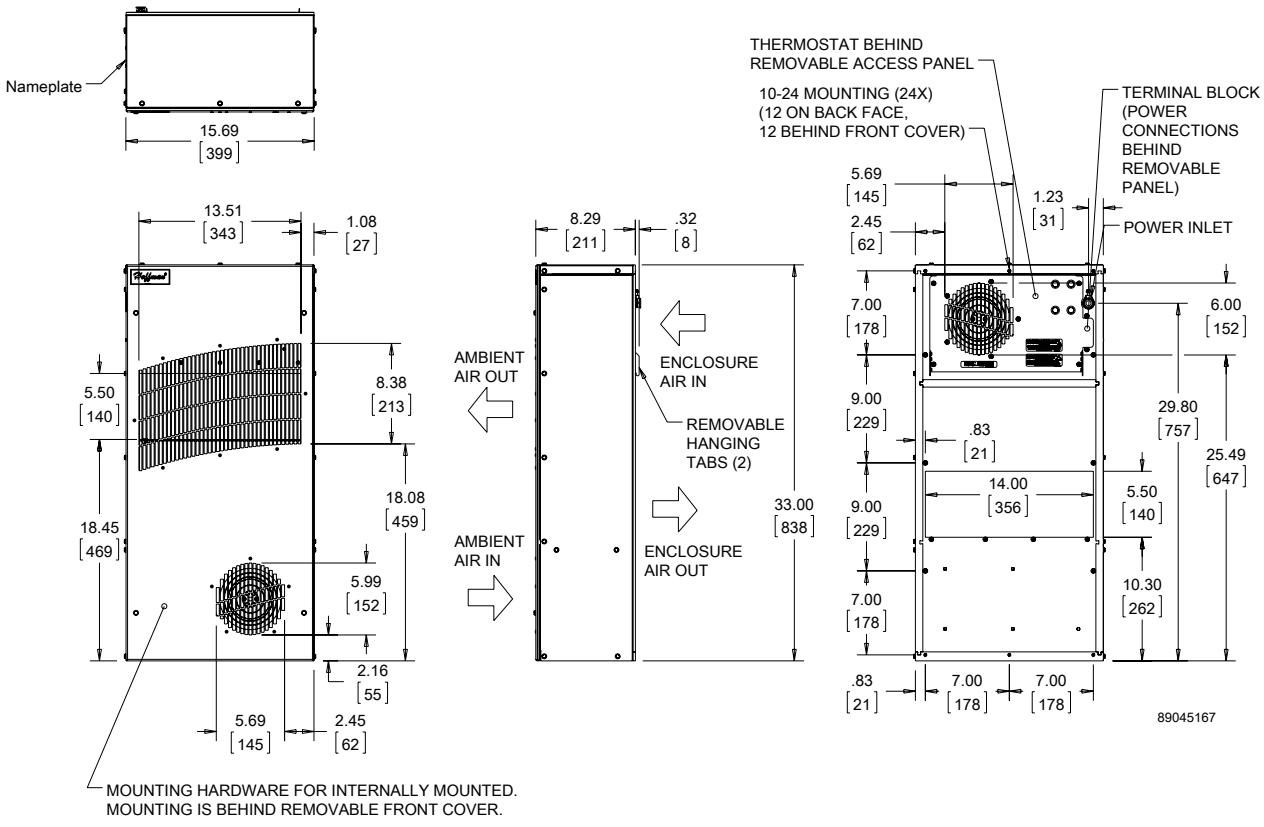
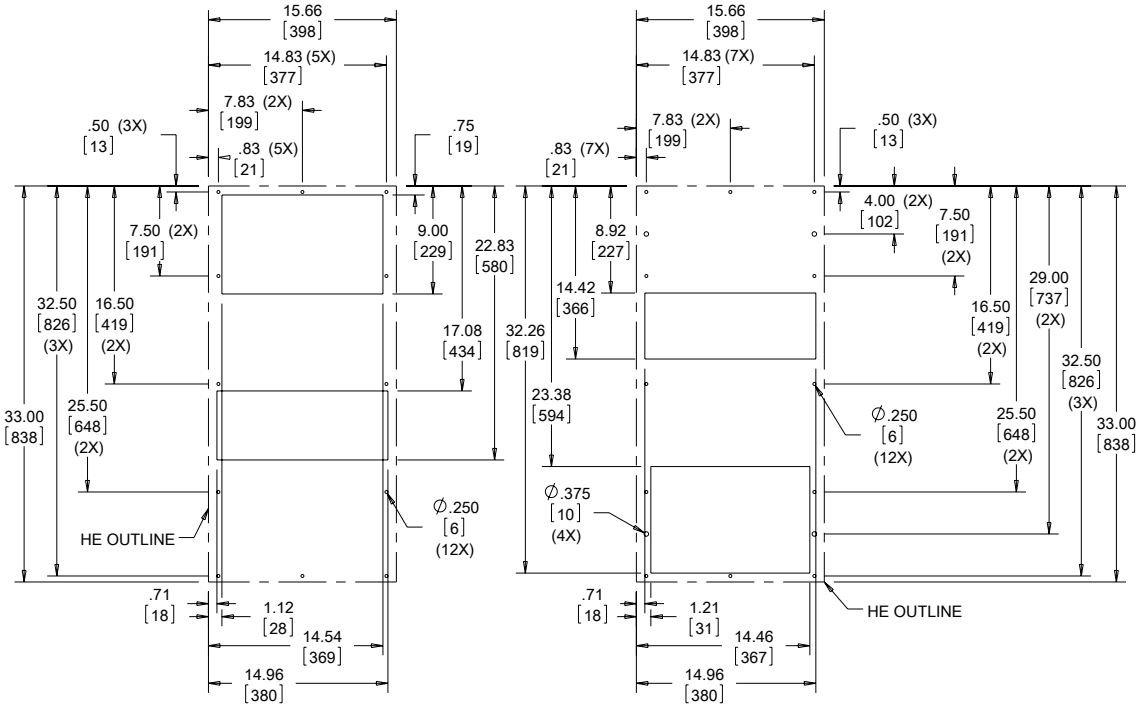
TX33 AC Models 28 W/°F (50 W/°C)





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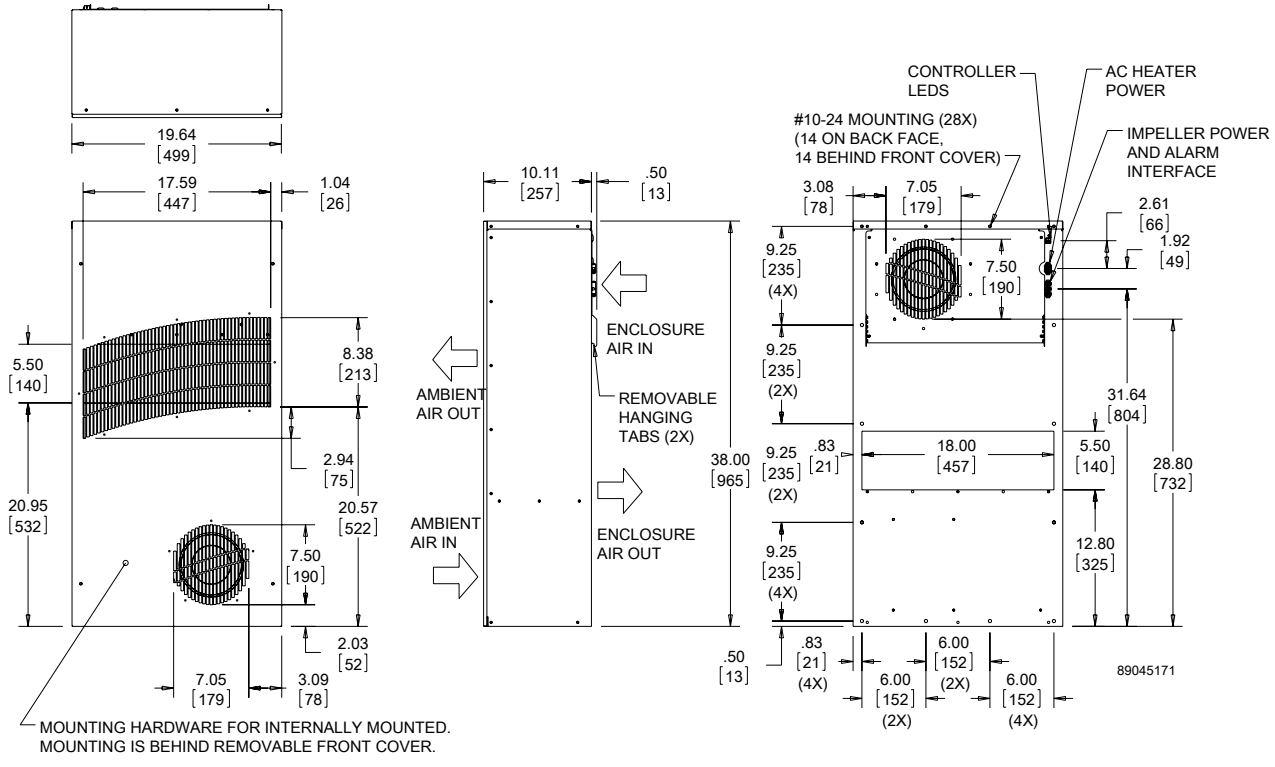
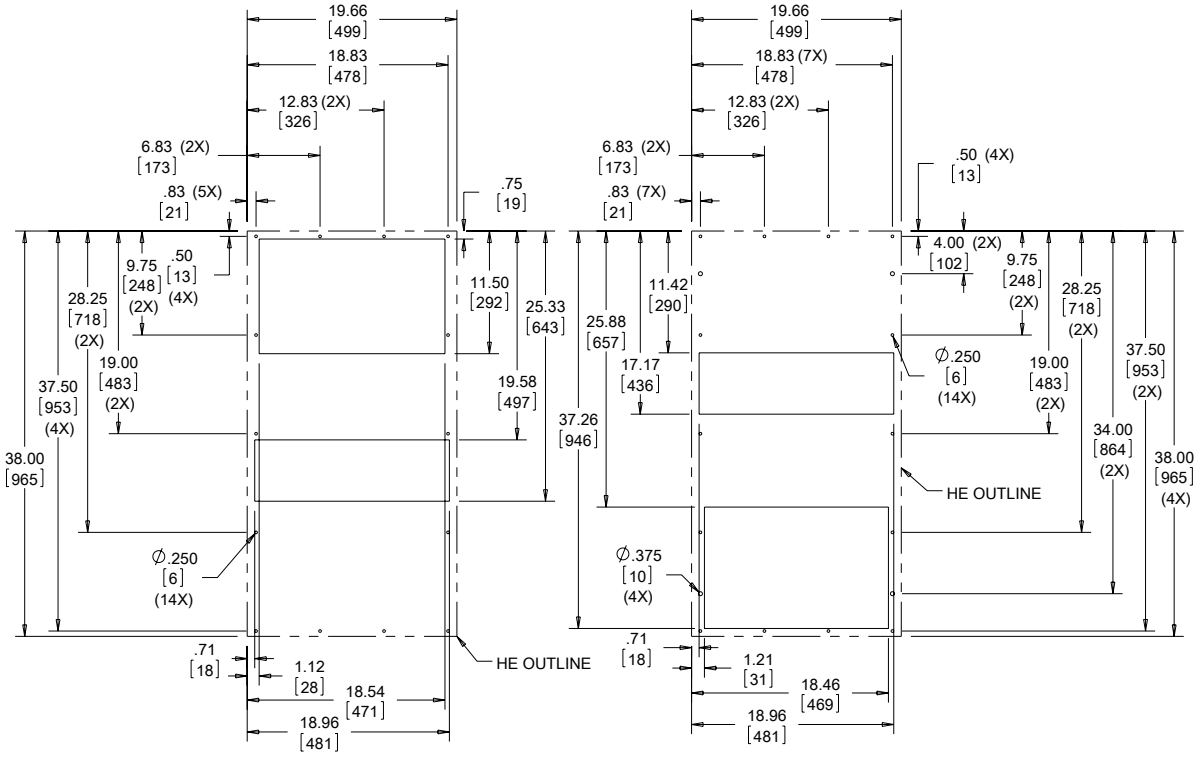
Performance Data **TX38 Models 56 W/°F (100 W/°C)**

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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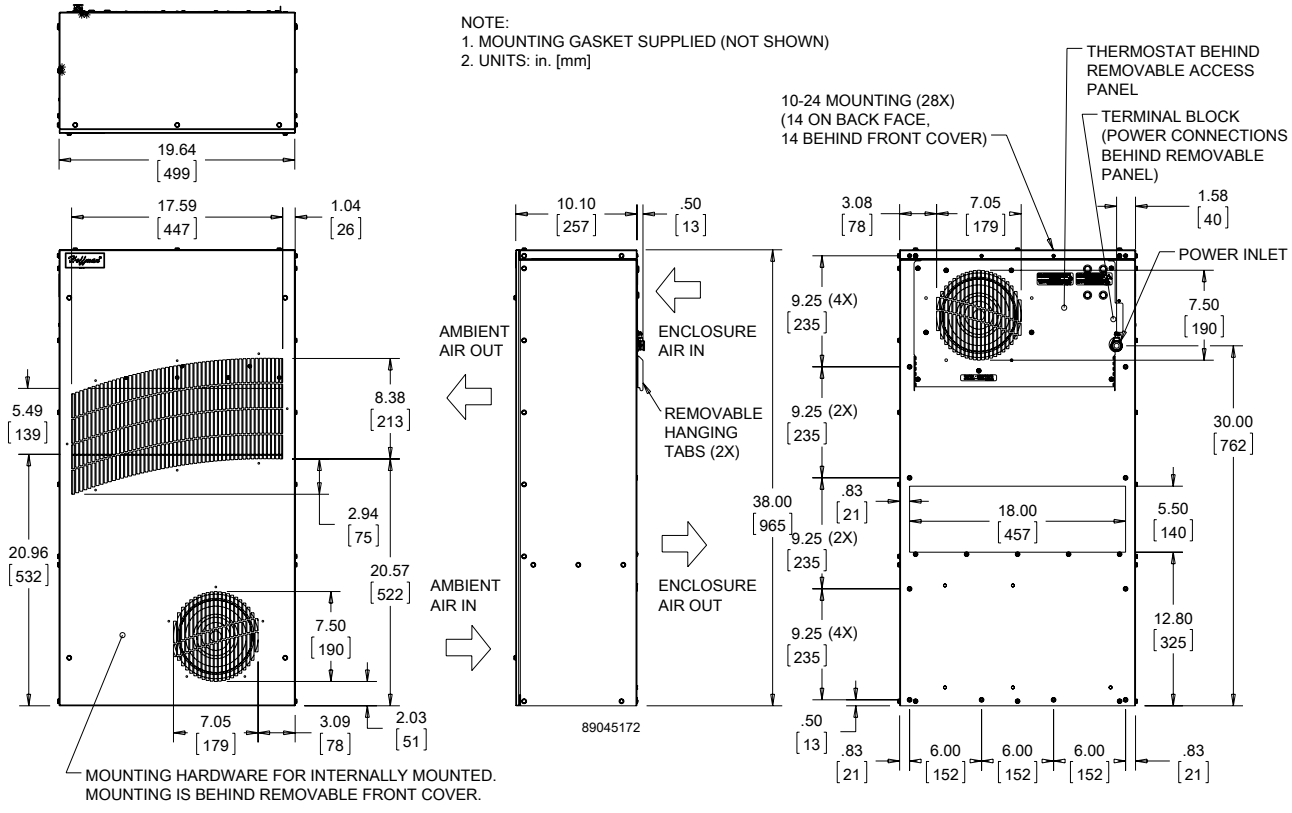
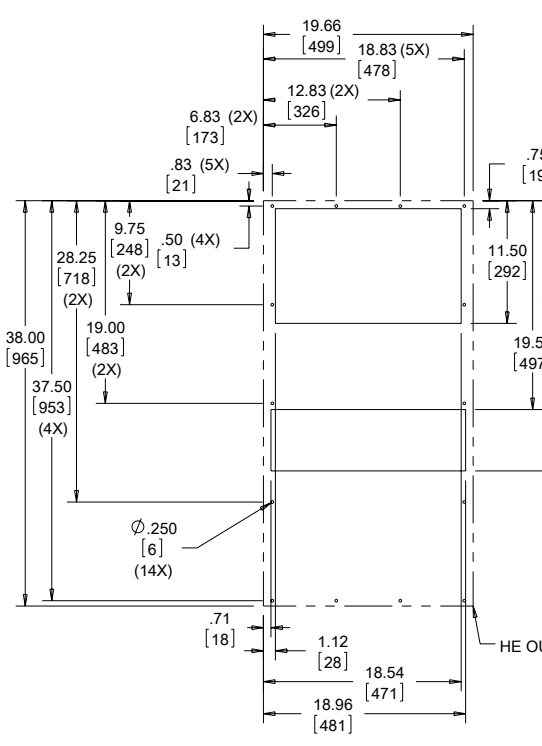
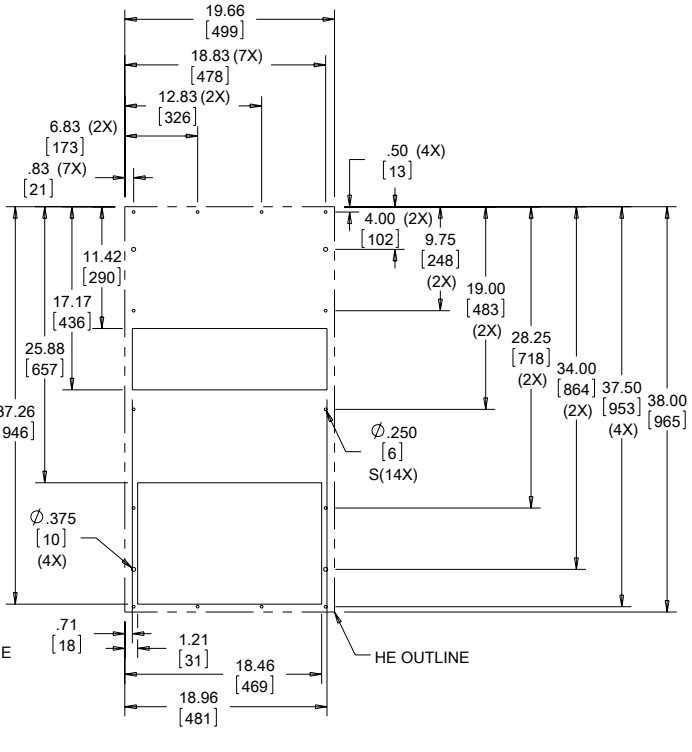
TX38 AC Models 56 W/°F (100 W/°C)





Cutout Dimensions (External Mount)



Cutout Dimensions (Internal Mount)

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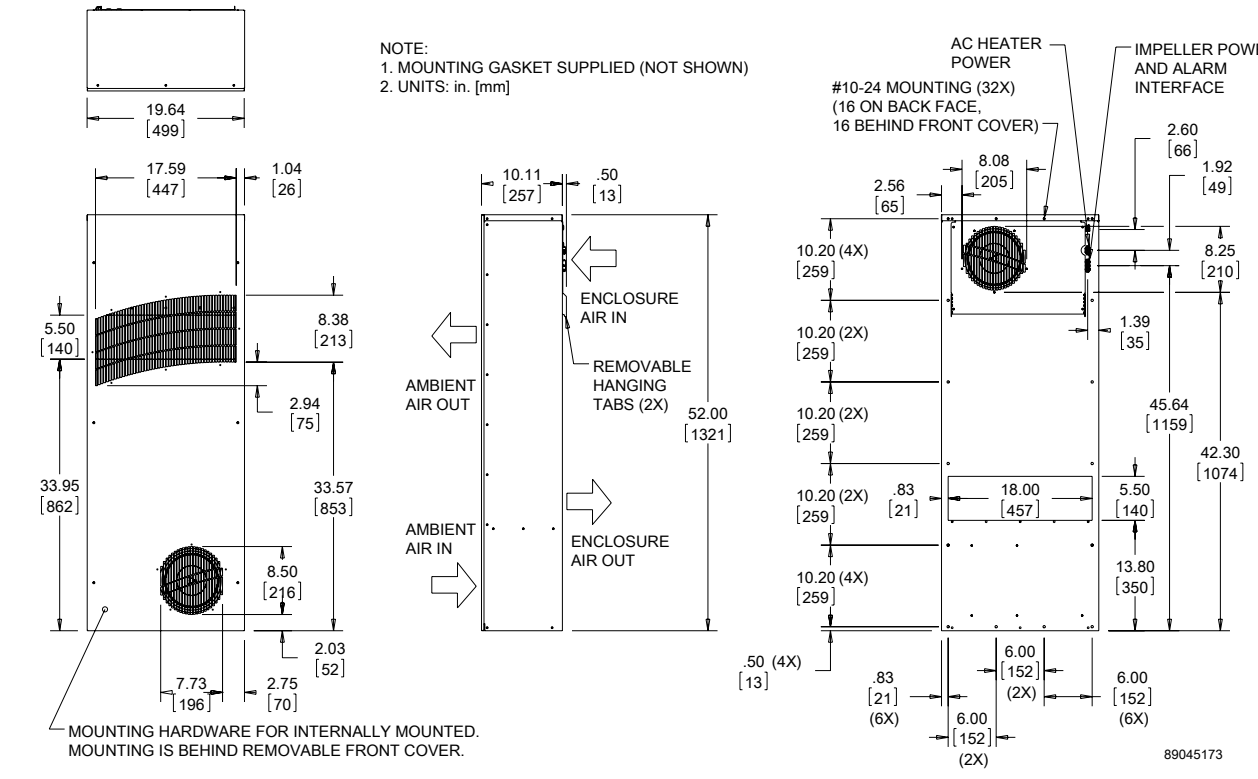
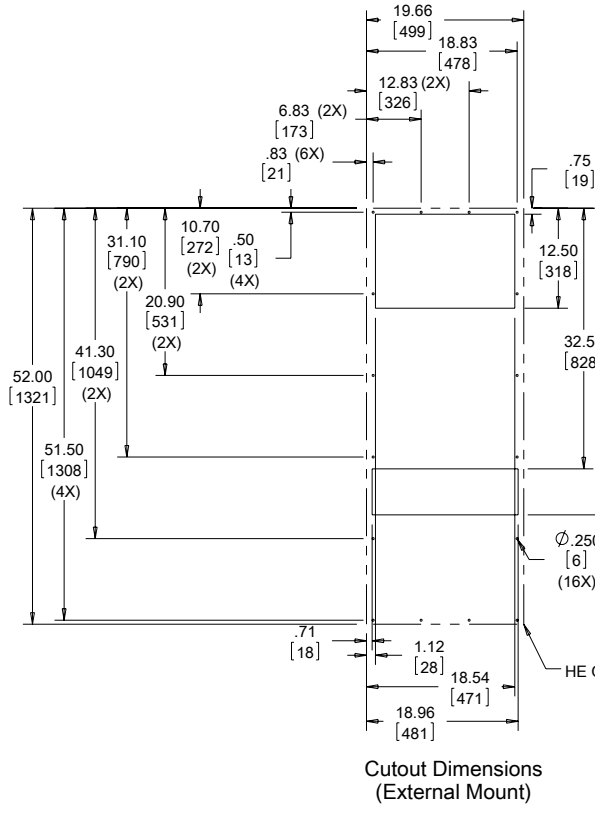
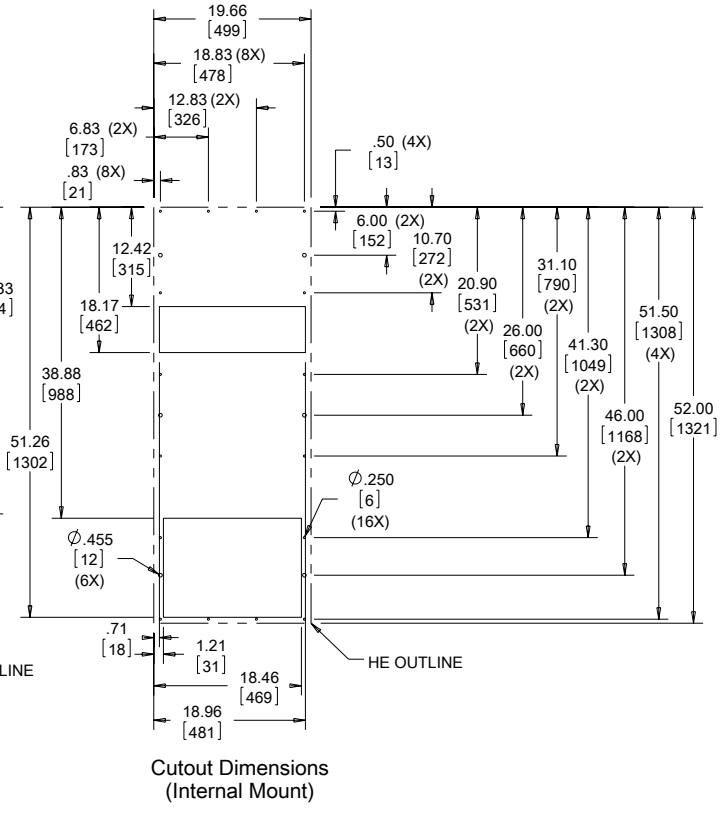
Performance Data **TX52 Models 83 W/°F (150 W/°C)**

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)







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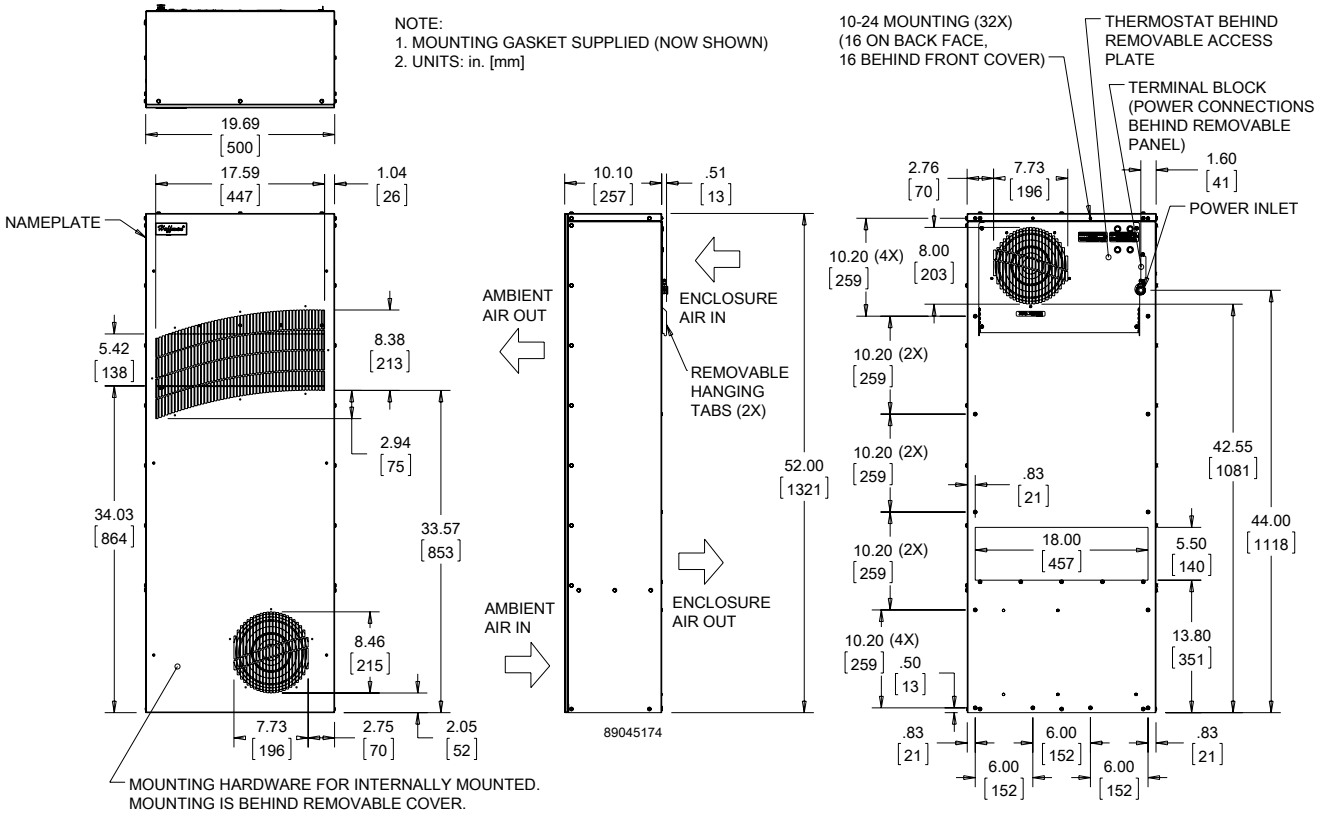
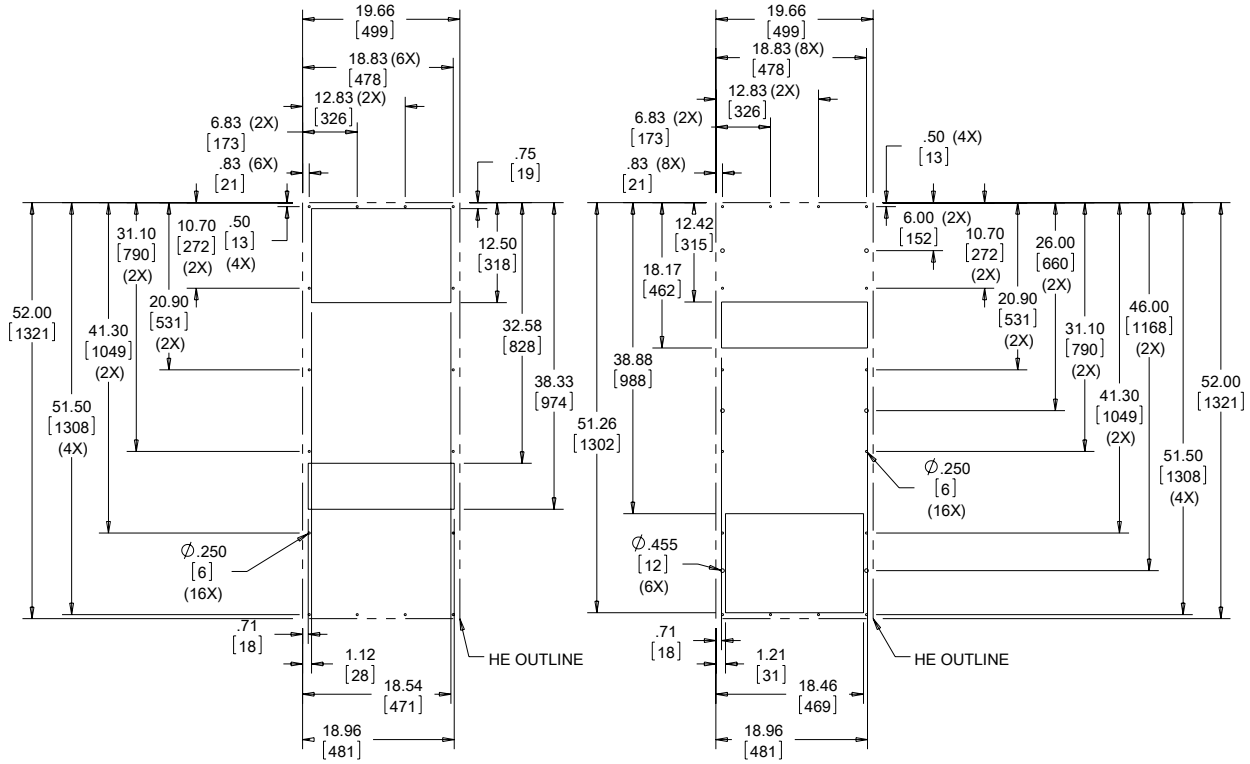
TX52 AC Models 83 W/°F (150 W/°C)





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Notes

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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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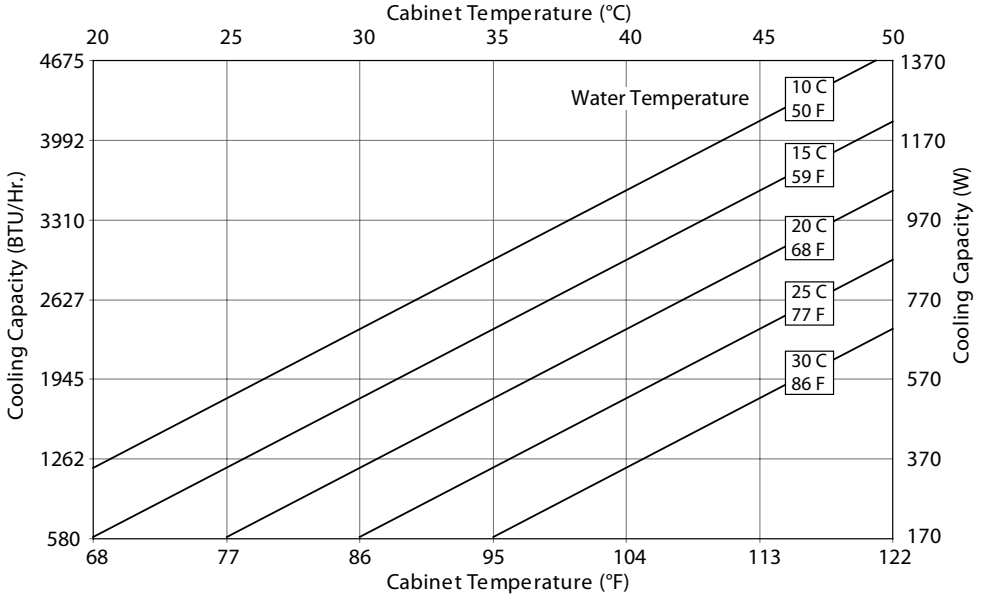
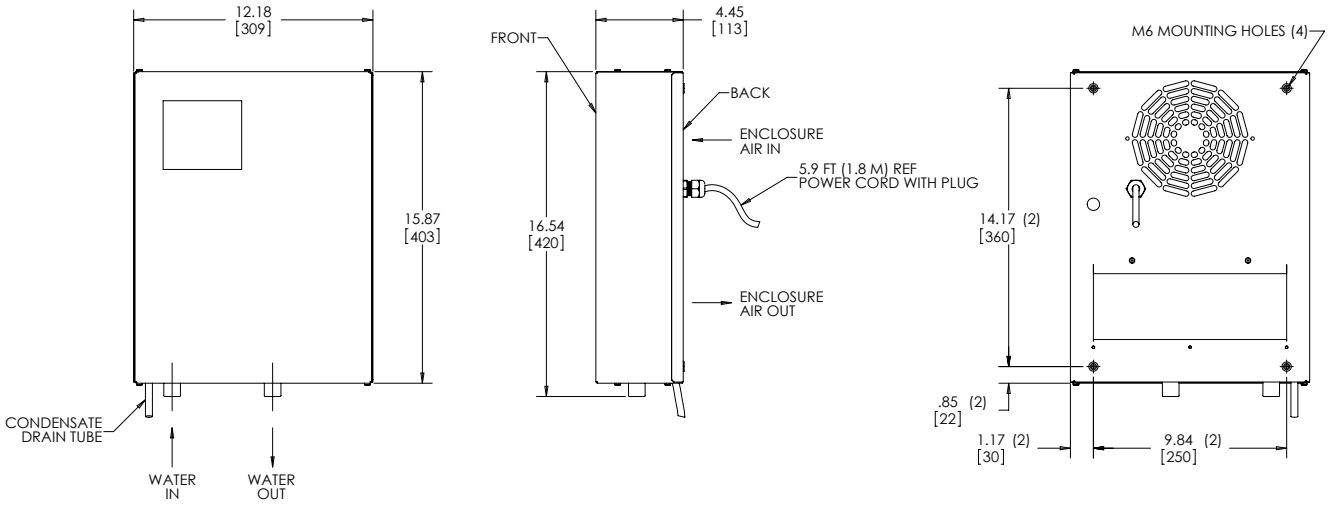
Performance Data **WCHE01 Models 870 Watt**

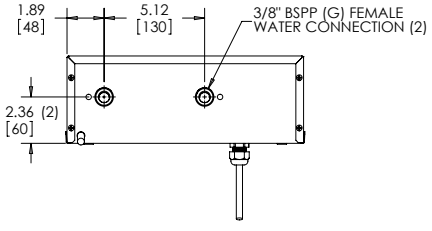
CATALOG NUMBER	WCHE01916002	WCHE01926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	2968	2968
Watts @ Δt 25 C	870	870
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature 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

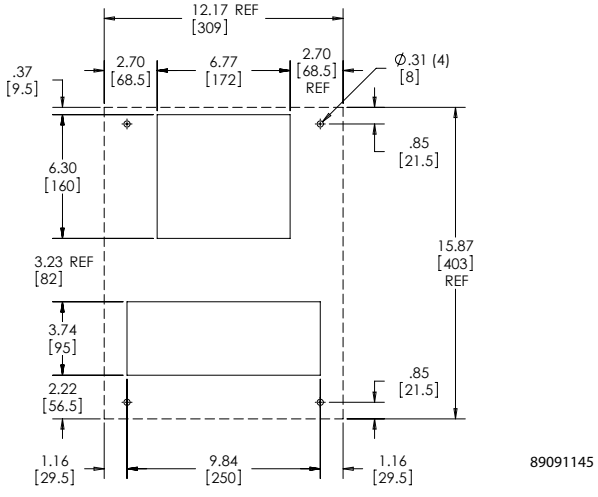


WCHE01 Models 870 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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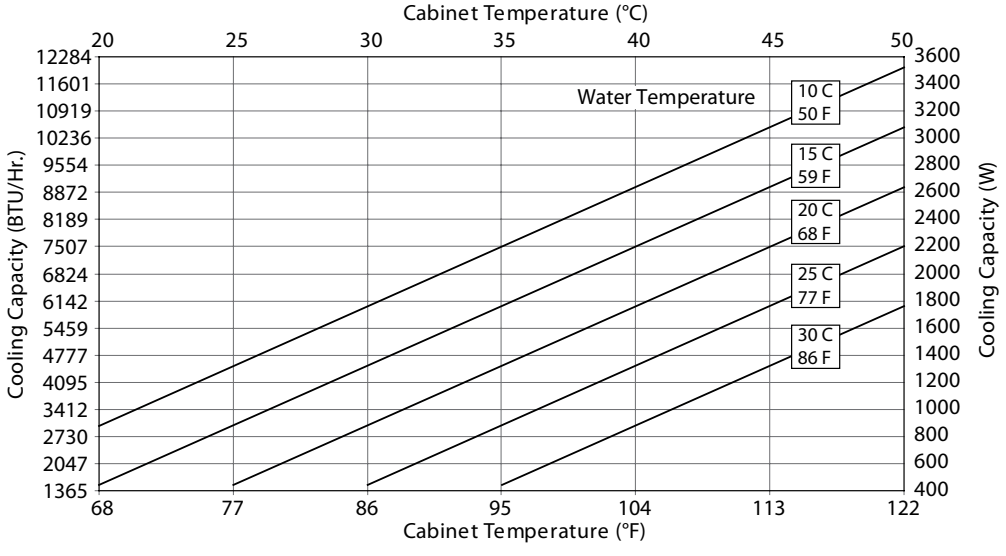
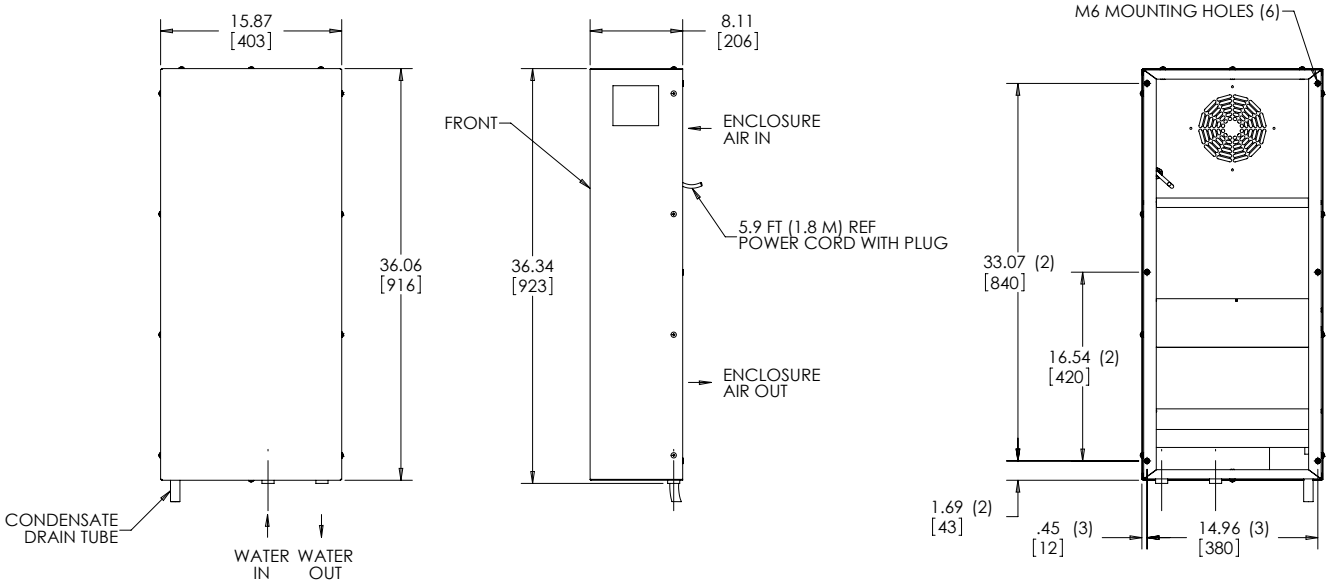
Performance Data **WCHE04 Models 2200 Watt**

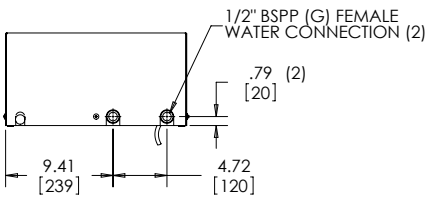
CATALOG NUMBER	WCHE04916002	WCHE04926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	7506	7506
Watts @ Δt 25 C	2200	2200
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature 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

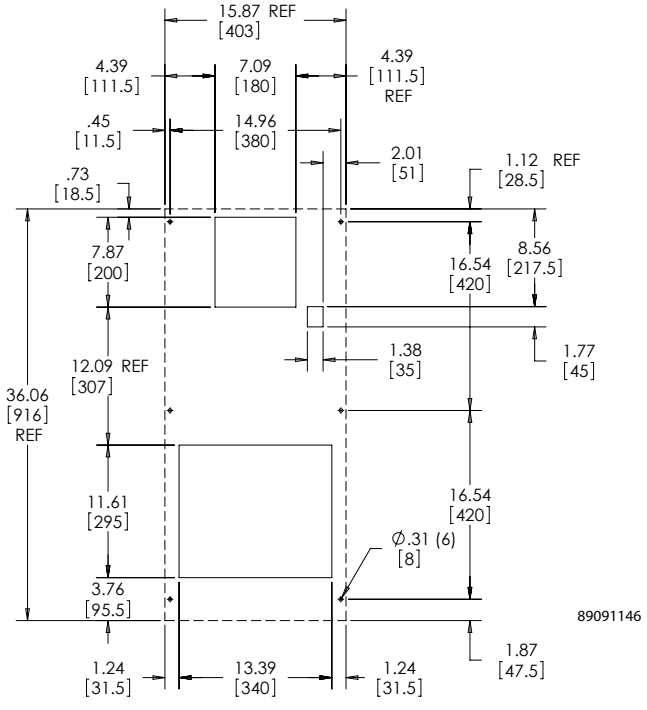


WCHE04 Models 2200 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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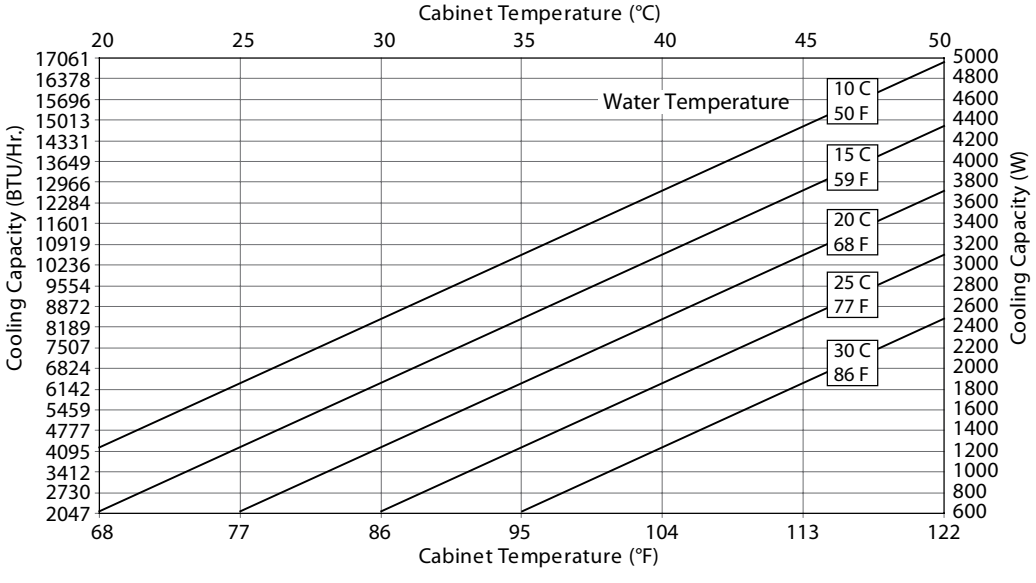
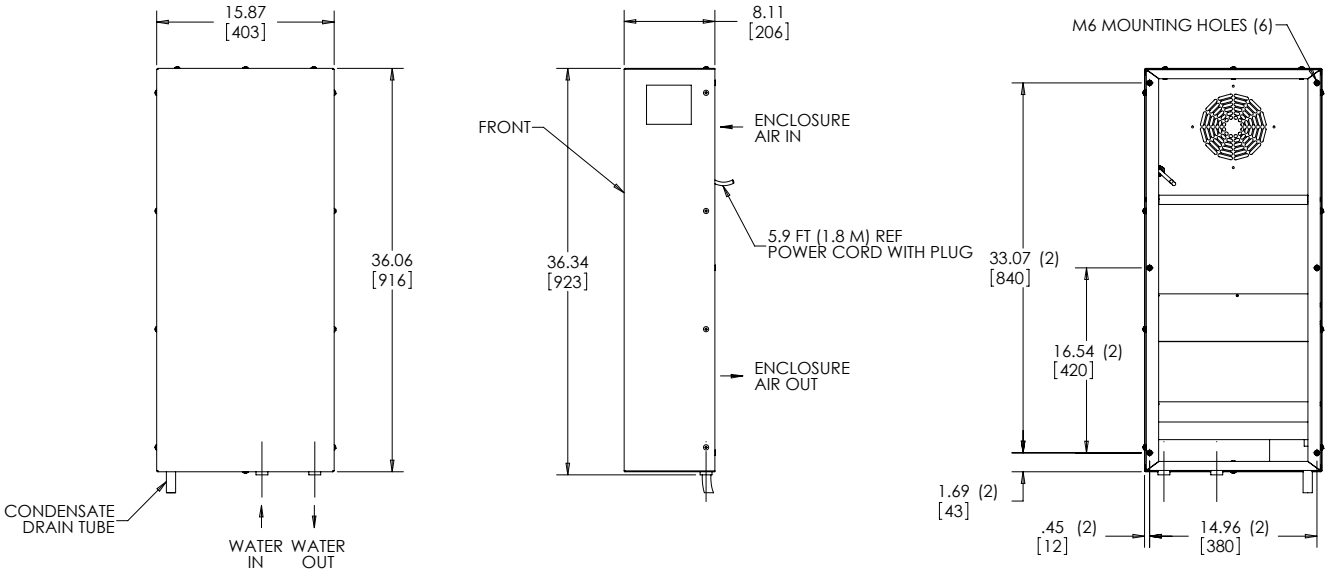
Performance Data **WCHE06 Models 3100 Watt**

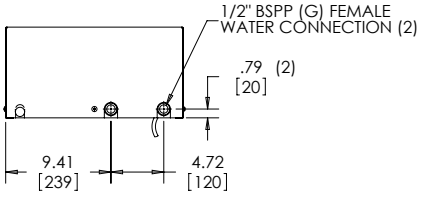
CATALOG NUMBER	WCHE06916002	WCHE06926002
COOLING PERFORMANCE		
Nominal:		
BTU/Hr. @ Δt 25 C	10577	10577
Watts @ Δt 25 C	3100	3100
Refrigerant	NA	NA
Refrigerant Charge (ounces/grams)	NA	NA
Inside Cabinet Temperature Range:		
Maximum (°F/°C)	122/50	122/50
Minimum (°F/°C)	50/10	50/10
Ambient Operating Temperature 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

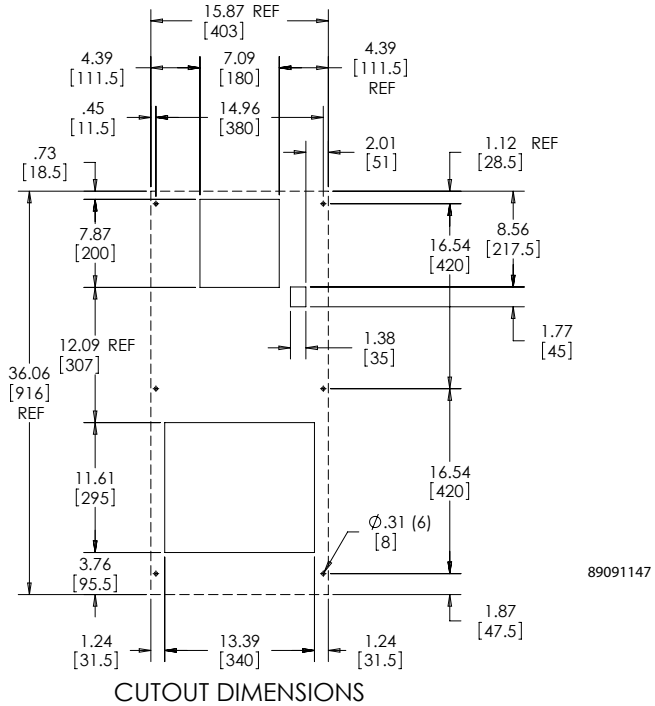


WCHE06 Models 3100 Watt





NOTE: "G" to NPT adapting valves are included and shipped with the unit.



CUTOUT DIMENSIONS

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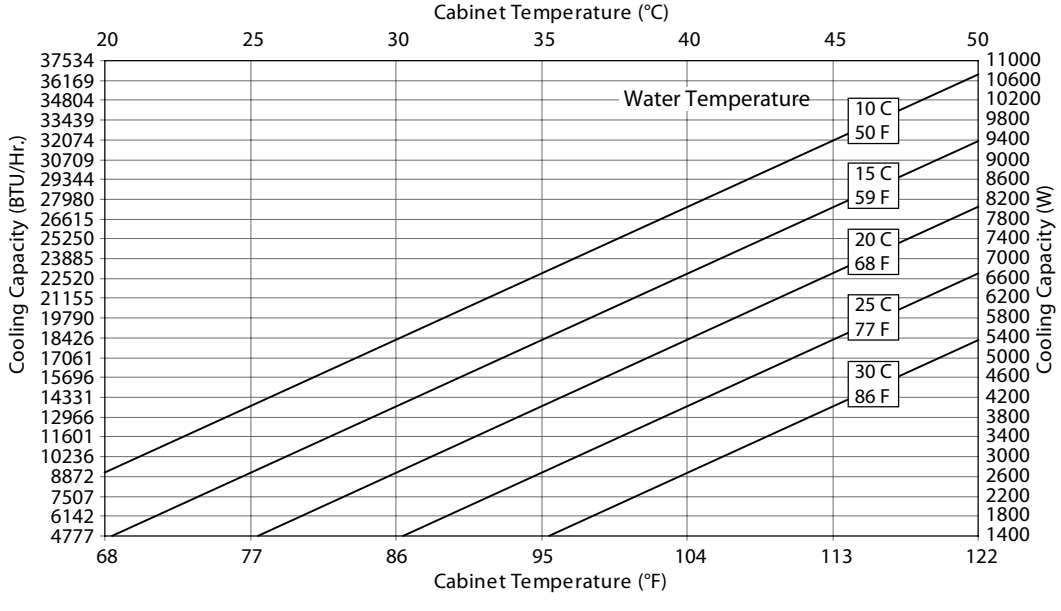
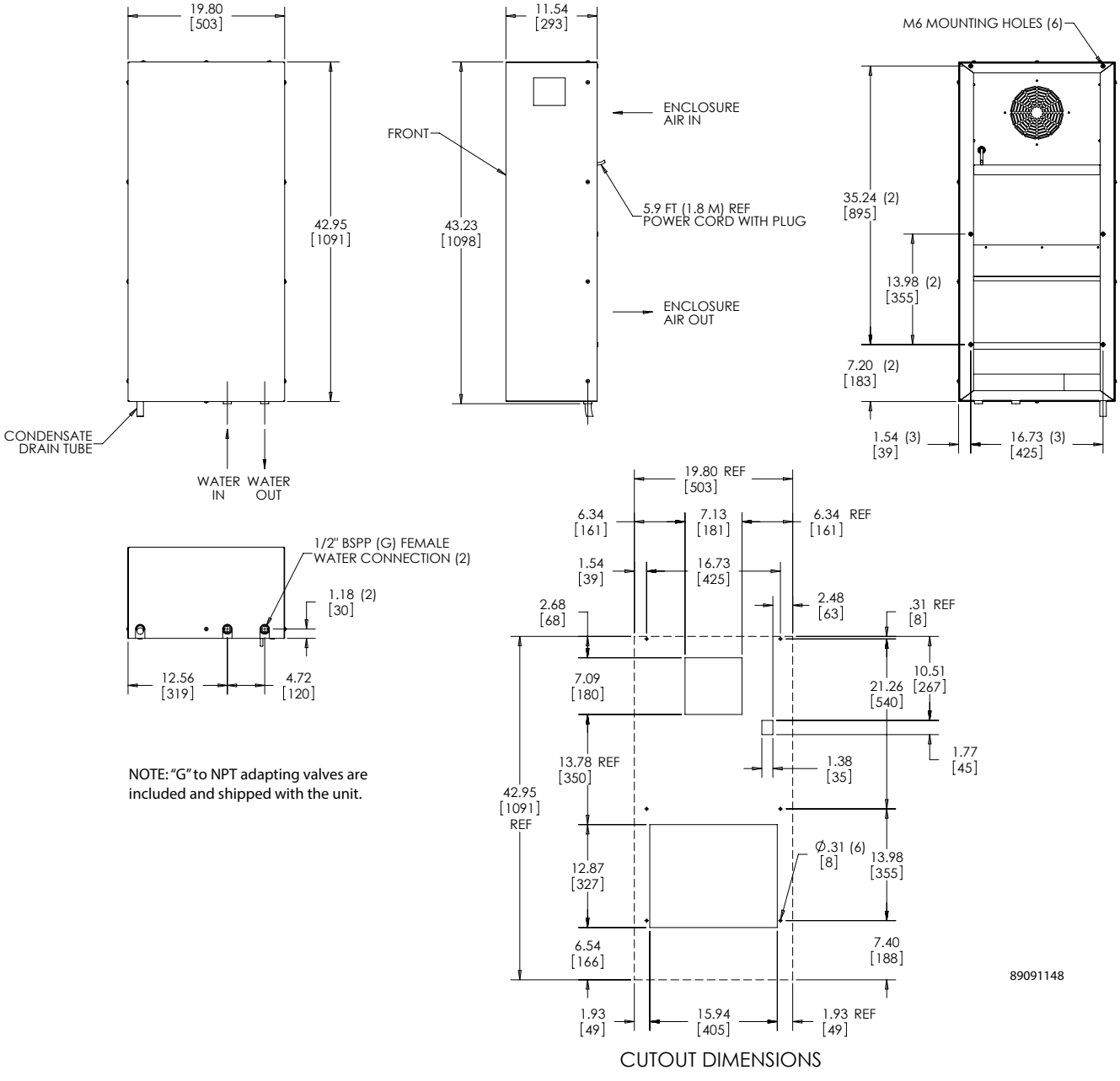
Performance Data **WCHE14 Models 6700 Watt**

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 314
Thermoelectric Condensate Manager, page 315

NOTES

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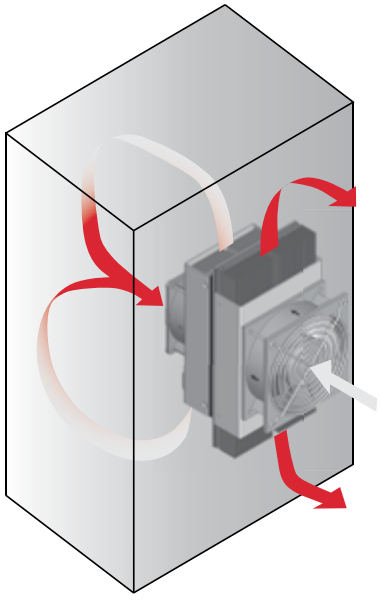
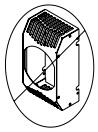
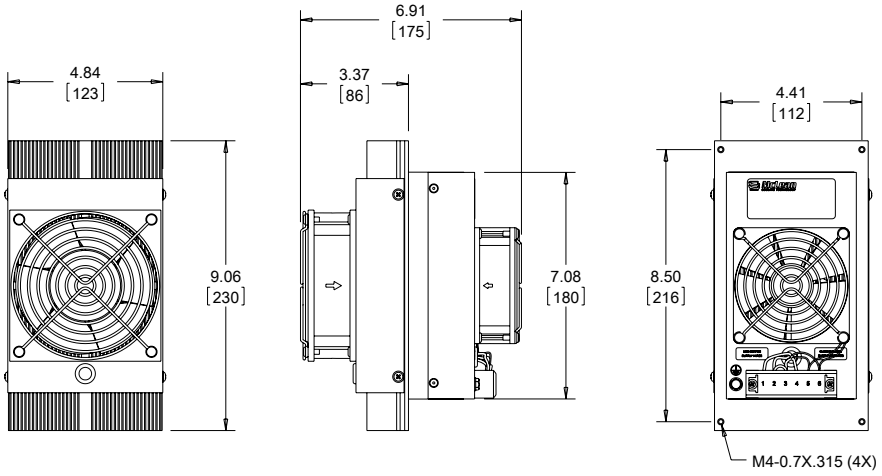


Performance Data **TE09 60W 204 BTU/Hr. (24 V)**

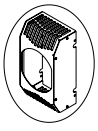
CATALOG NUMBERS			
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud
Catalog Number	TE090624020	TE090624010	TE090624011
COOLING PERFORMANCE			
BTU/Hr.	**178**	**178**	**178**
Watts	**52**	**52**	**52**
Operating Temperature Range:			
Maximum (°C / °F)	55 / 131	55 / 131	55 / 131
Minimum (°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

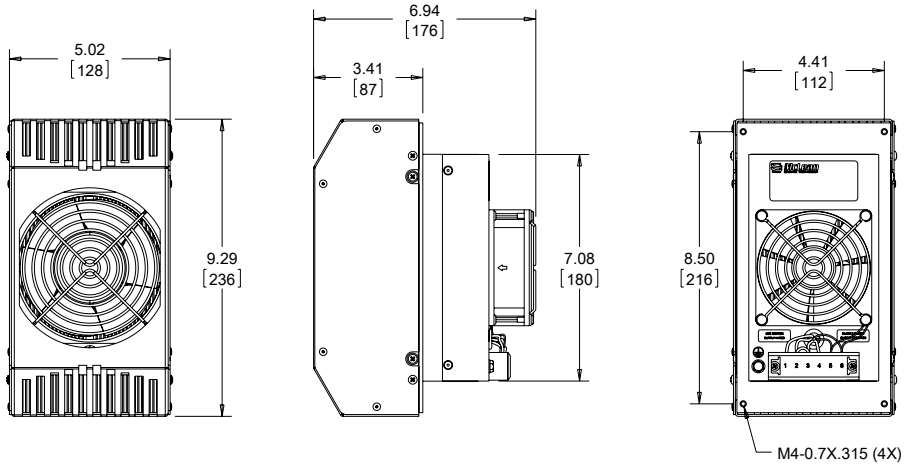
60 W 24 V

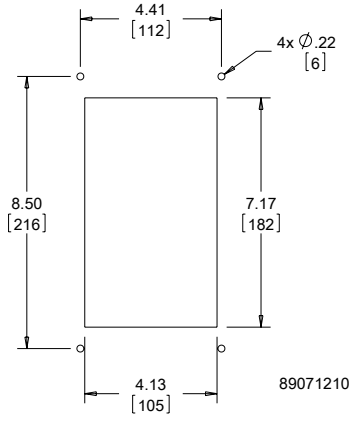




60 W 24 V







Cutout Dimensions

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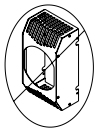
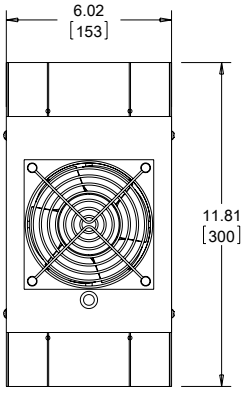
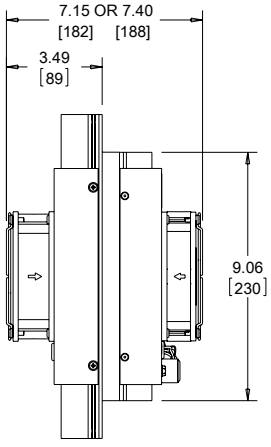
Performance Data **TE12 100W 341 BTU/Hr. (24/48 V)**

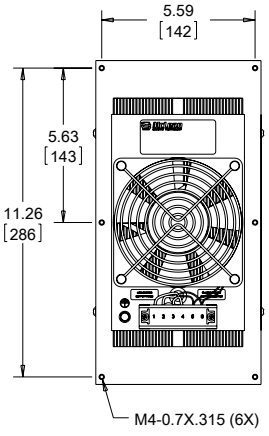
CATALOG NUMBERS					
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud	48V w/o shroud	48V w/ painted shroud
Catalog Number	TE121024020	TE121024010	TE121024011	TE121048020	TE121048010
COOLING PERFORMANCE					
BTU/Hr.	**321**	**321**	**321**	**321**	**321**
Watts	**94**	**94**	**94**	**94**	**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

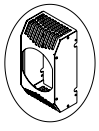


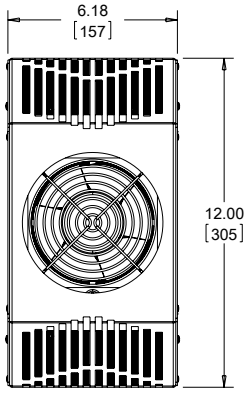


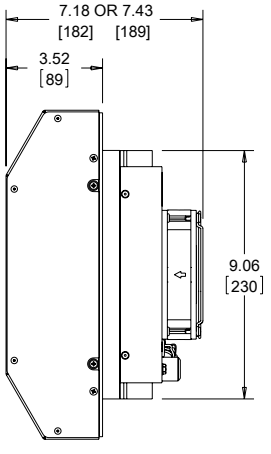


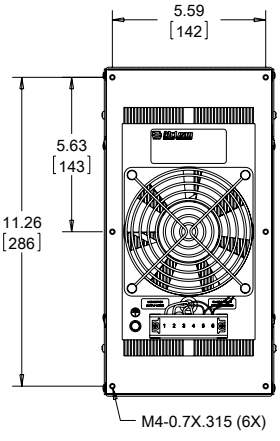


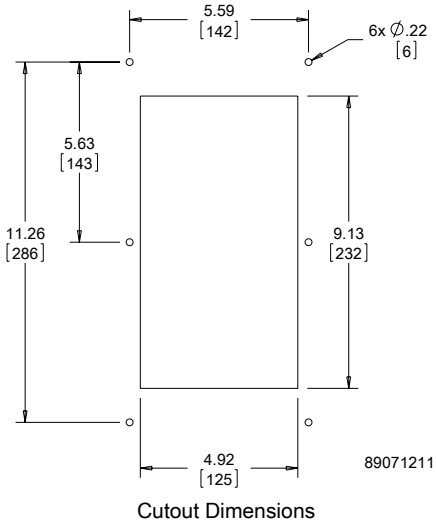
100 W 24/48 V











Cutout Dimensions

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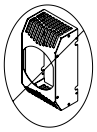
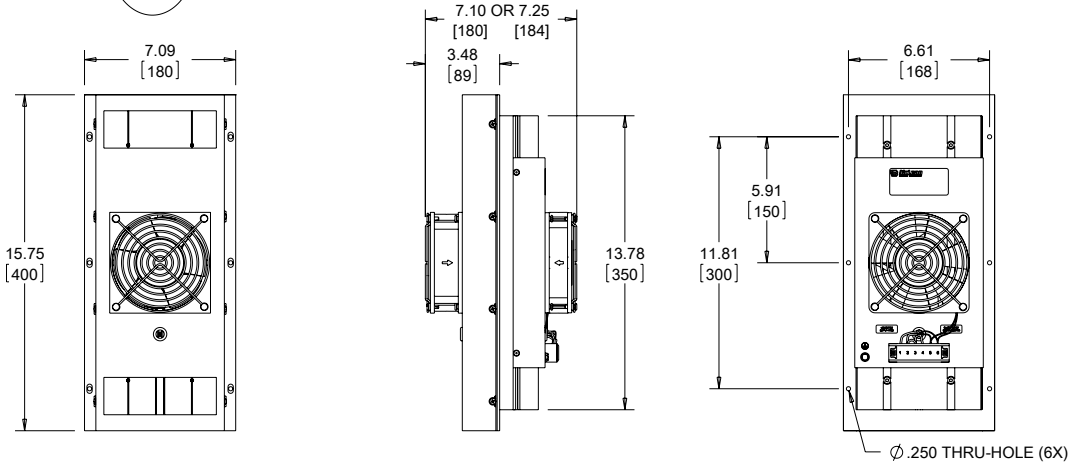
Performance Data **TE16 200W 682 BTU/Hr. (24/48 V)**

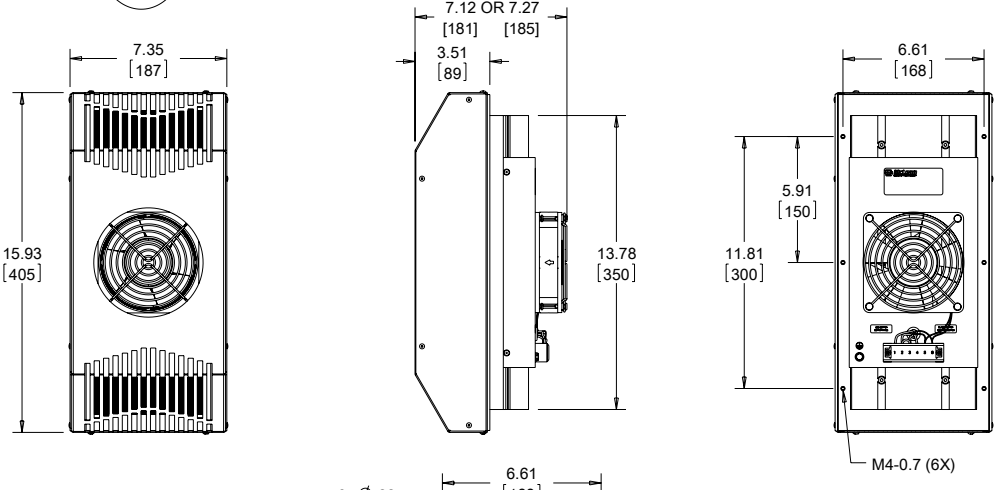
CATALOG NUMBERS					
Description	24V w/o shroud	24V w/ painted shroud	24V w/ SS shroud	48V w/o shroud	48V w/ painted shroud
Catalog Number	TE162024020	TE162024010	TE162024011	TE162048020	TE162048010
COOLING PERFORMANCE					
BTU/Hr.	**567**	**567**	**567**	**567**	**567**
Watts	**166**	**166**	**166**	**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

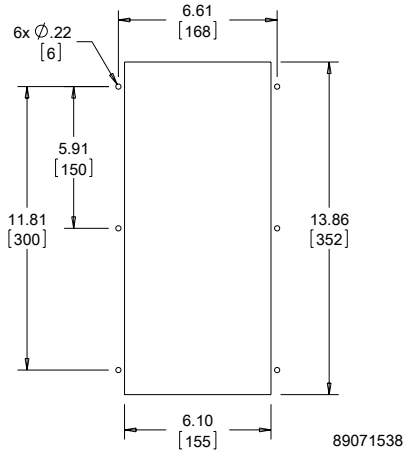
200 W 24/48 V





200 W 24/48 V

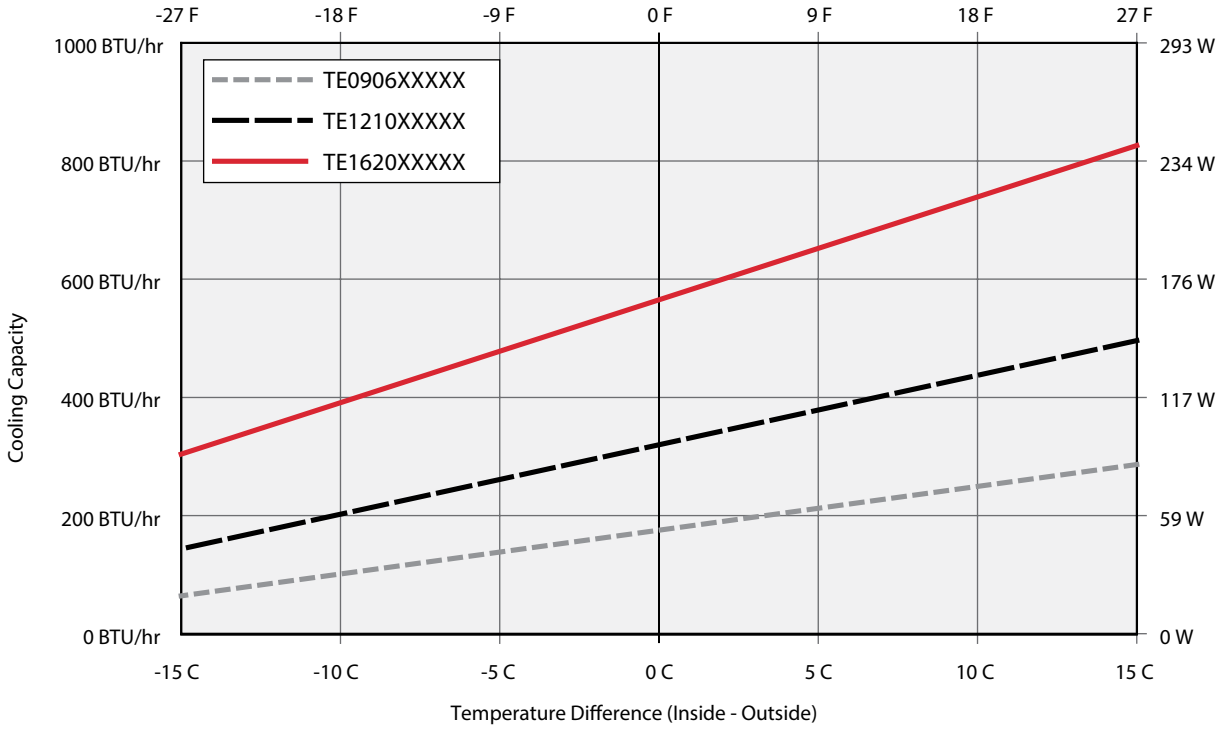




Cutout Dimensions

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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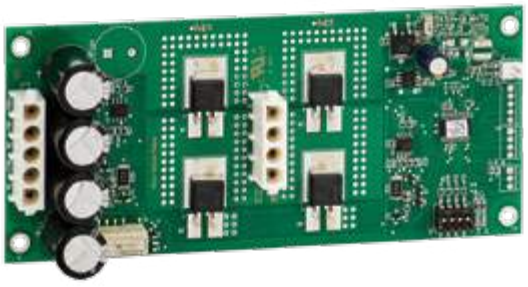
THERMOELECTRIC TEMPERATURE CONTROLLER



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

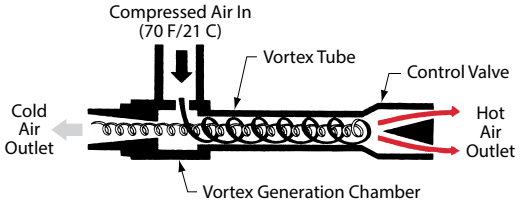
- Five-micron airline filter, 115 V solenoid
- Thermostat
- Ducting kit
- Cooling capacities to 2500 BTU/Hr. (733 W)

FINISH

Brushed satin aluminum or stainless steel

ACCESSORIES

Vortex Cooling Oil Filters, page 324



Vortex Tube Air Flow Schematic

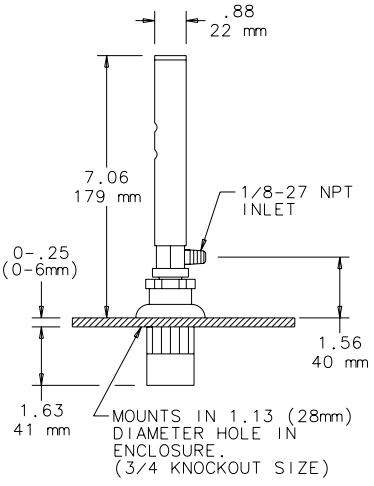
Performance Data **VC Series NEMA Type 12**

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

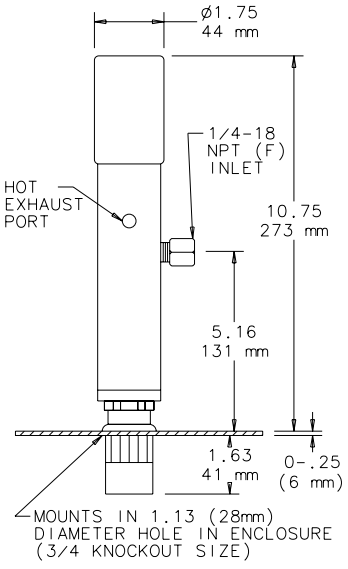
Performance Data **VC Series NEMA Type 4, 4X**

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

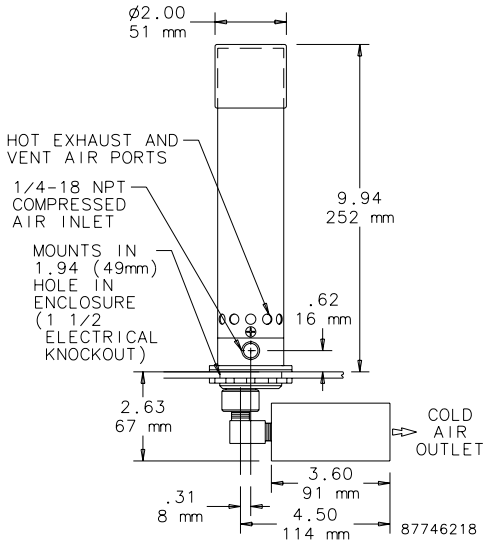
NEMA Type 12 - 400 BTU/Hr.



NEMA Type 12 -
900, 1500, 2500 BTU/Hr.

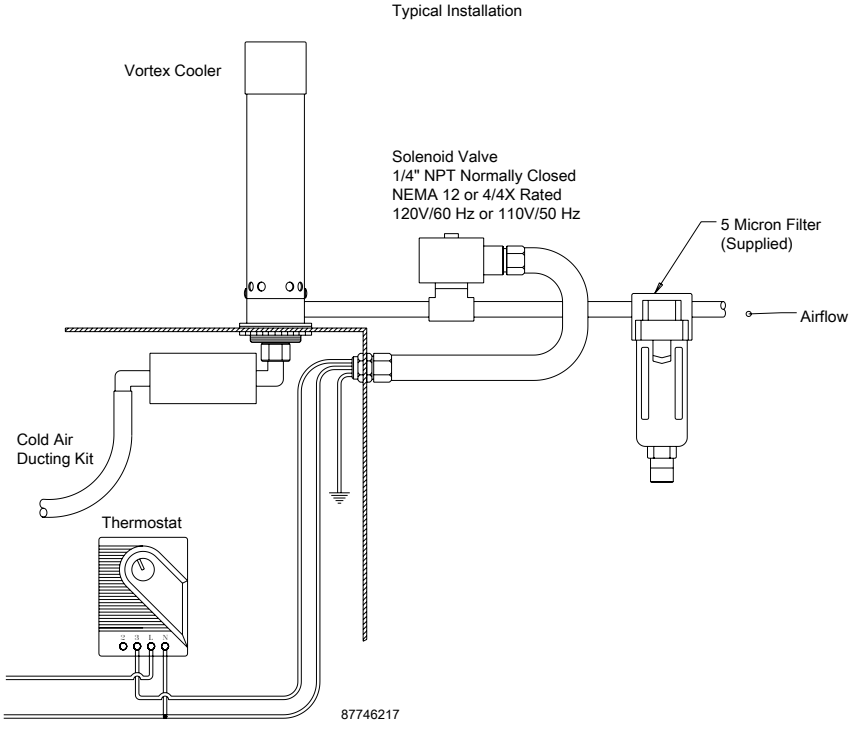


NEMA Type 4X
900, 1700, 2500 BTU/Hr.



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

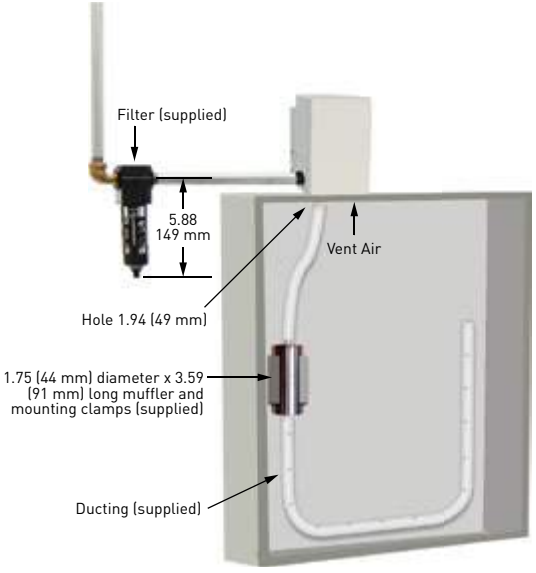
ACCESSORIES

Vortex Cooling Air Filters, page 324
Vortex Cooling Oil Filters, page 324
Vortex Cooling Generator Kits, page 324
Vortex Cooling VA Series Air Ducting, page 324

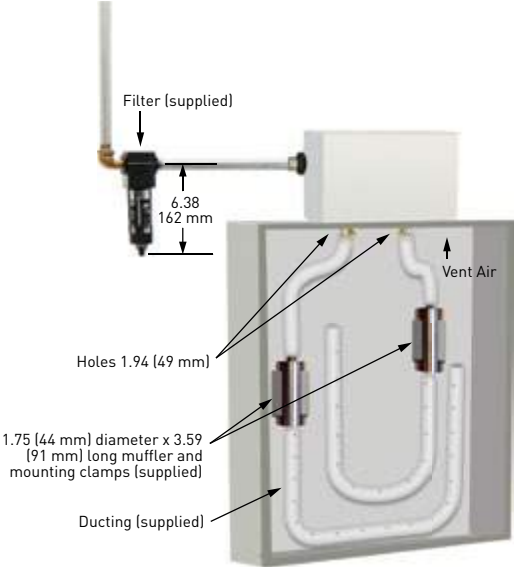
Performance Data **VA Series NEMA Type 4, 4X**

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



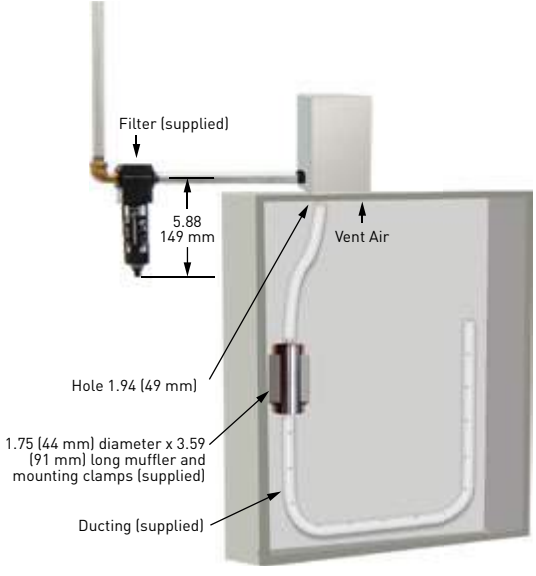
VA50, Type 4/4X



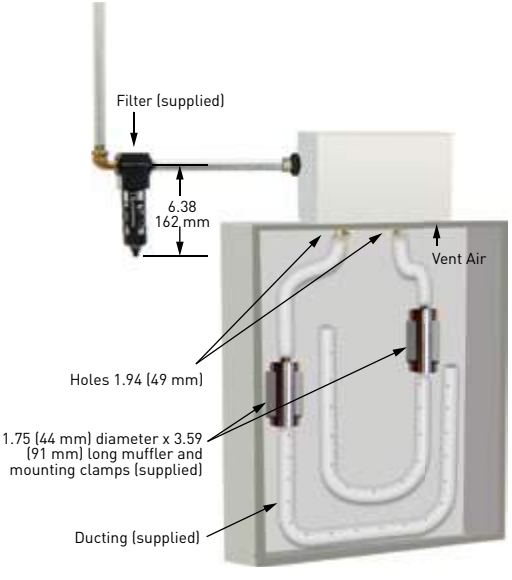
Performance Data **VA Series NEMA Type 12**

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 324
Vortex Cooling Oil Filters, page 324
Vortex Cooling Generator Kits, page 324
Vortex Cooling VHL Series Air Ducting, page 324

INDUSTRY STANDARDS

Hazardous Location Models:

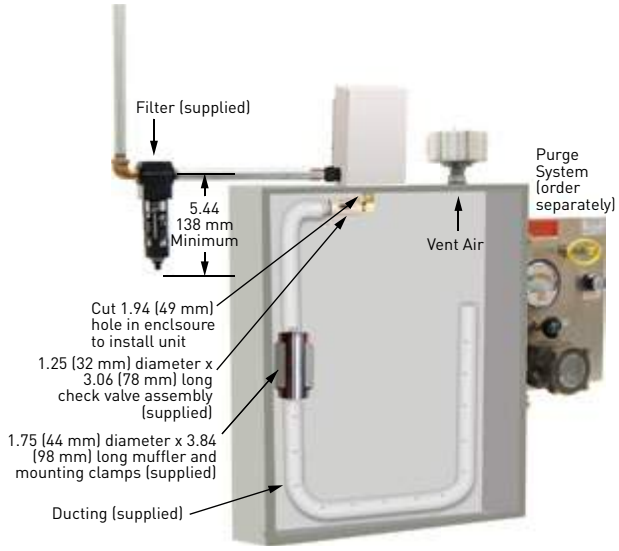
UL Classified for Class 1, Div. 2, Groups A through D; Class II, Div. 2, Groups F & G; and Class III locations (when used with an approved purge/pressurization system); File No. E364567. Maintains UL/cUL Type 4, 4X when properly installed on a UL/cUL Type 4, 4X enclosure.

10

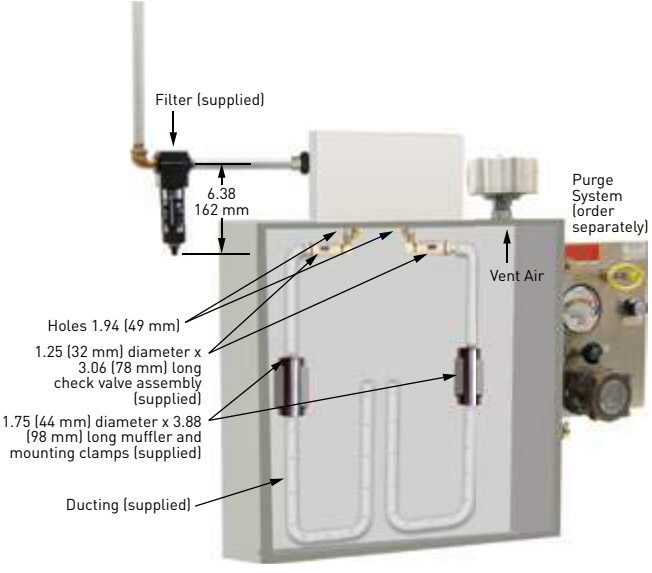
Performance Data **VHL Series for Hazardous Locations**

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

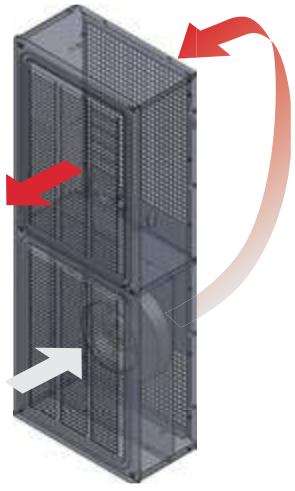
- Customizable solutions to meet any customer need
- Two models utilizing Hydrophobic GORE® filter
- Two models with MERV 12, pleated filter
- Standard power input: 48 VDC
- UL Listed to save time and money with agency approvals
- Power Cord included
- Easy to replace filters
- Broad operating temperature 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

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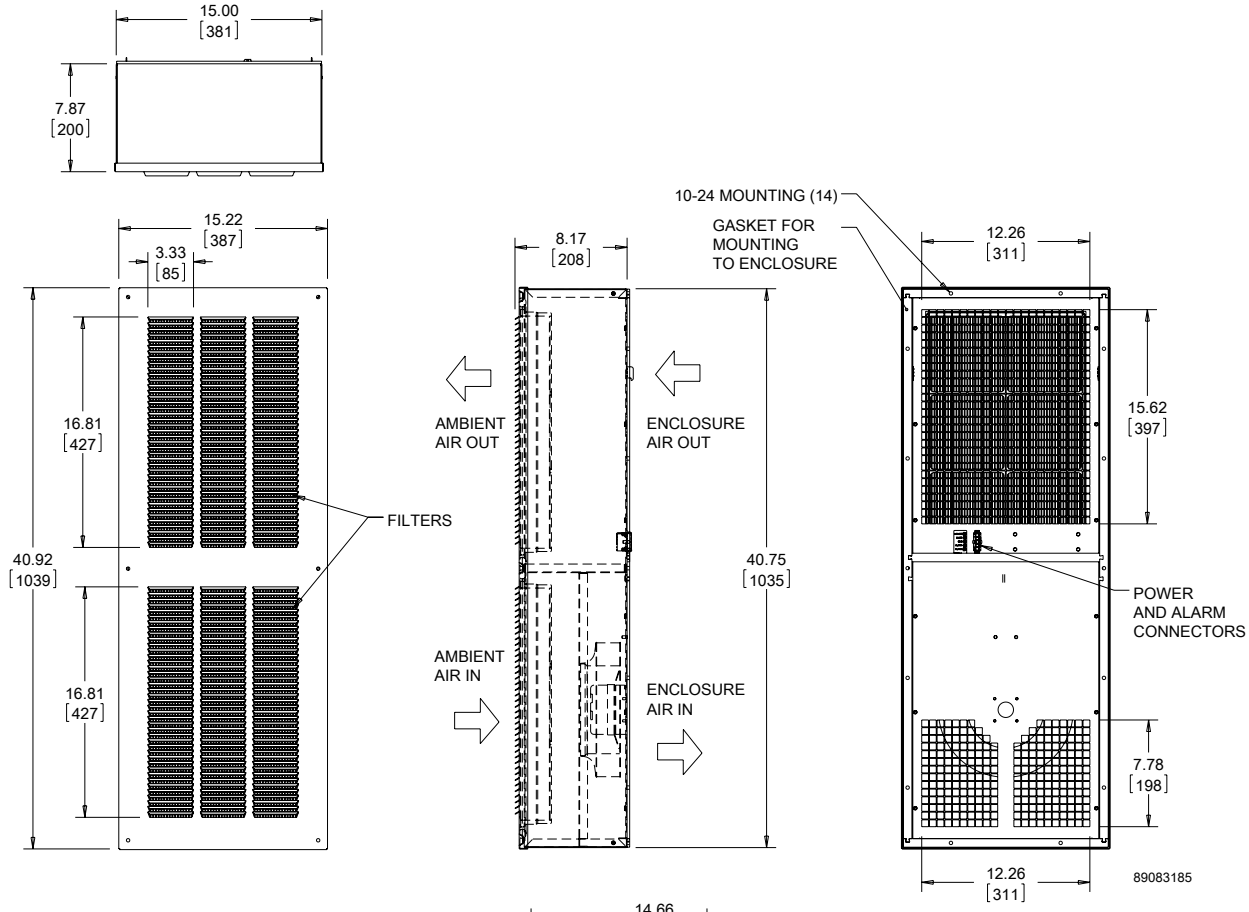
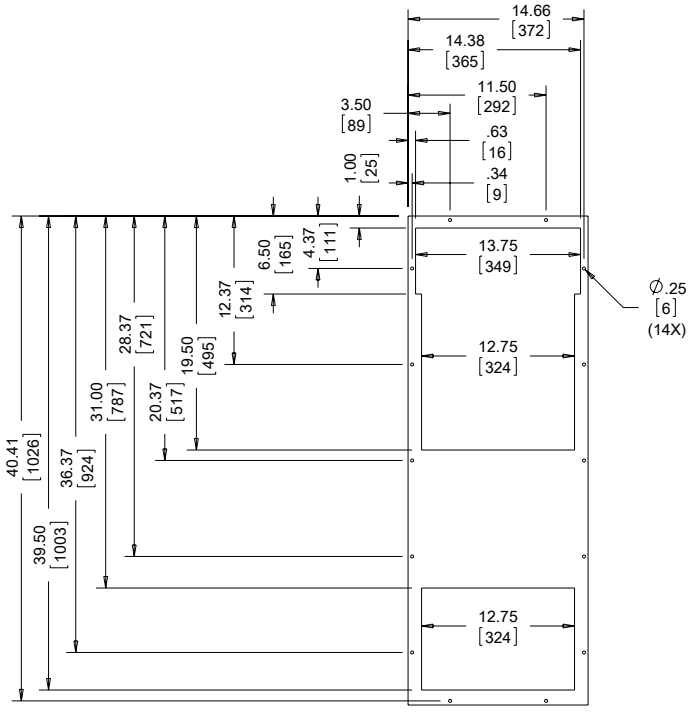
Performance Data **DACS**

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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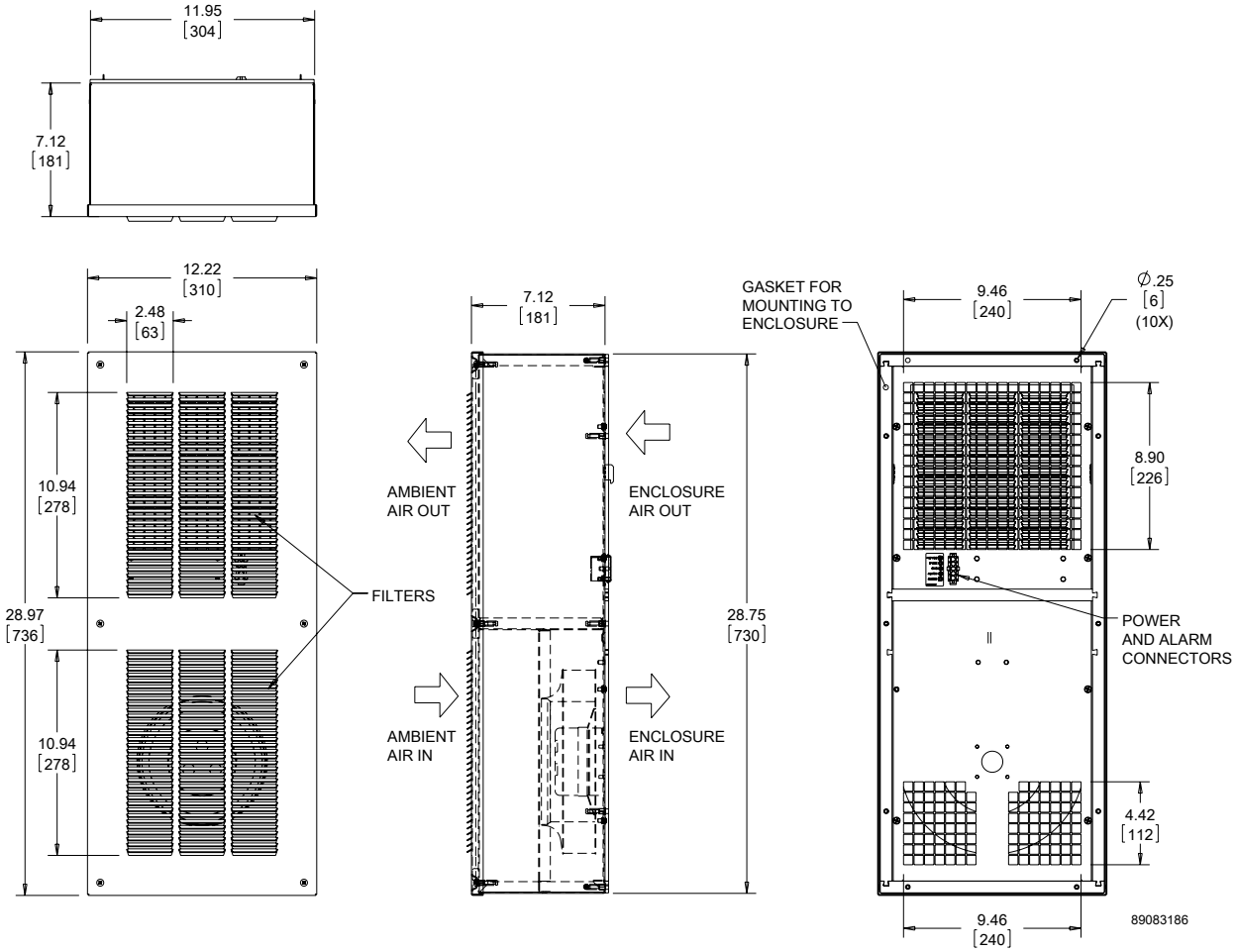
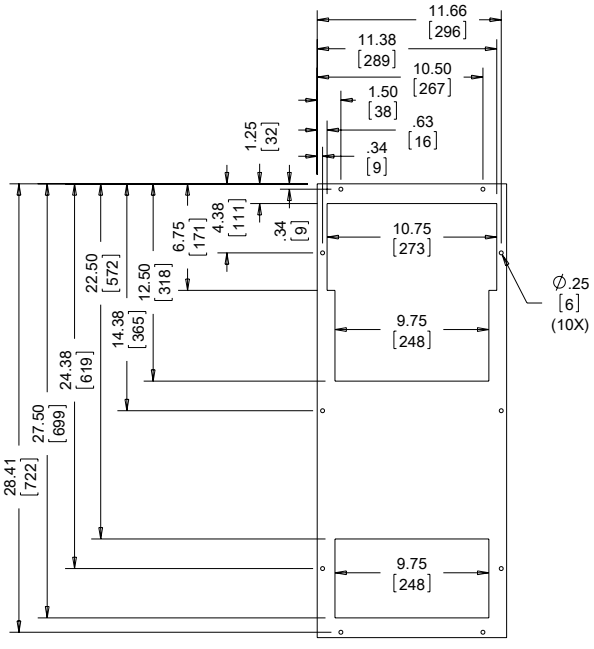
DCG2904248100





CUTOUT DIMENSIONS

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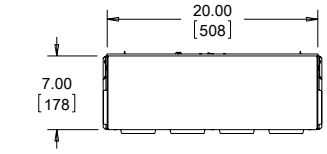
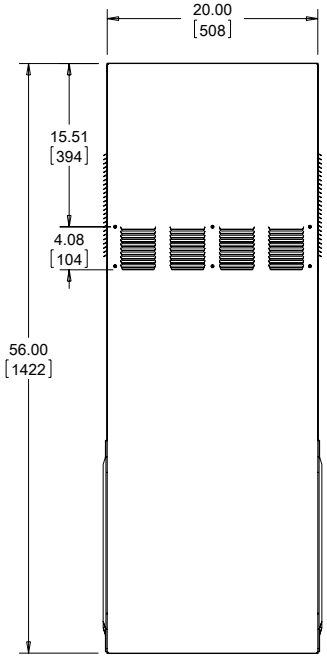
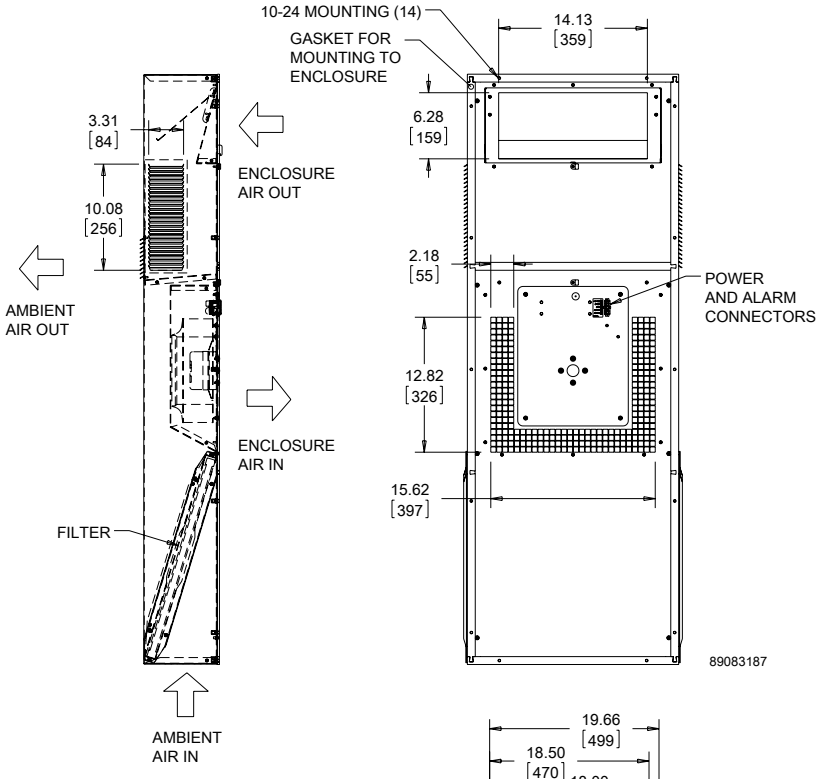
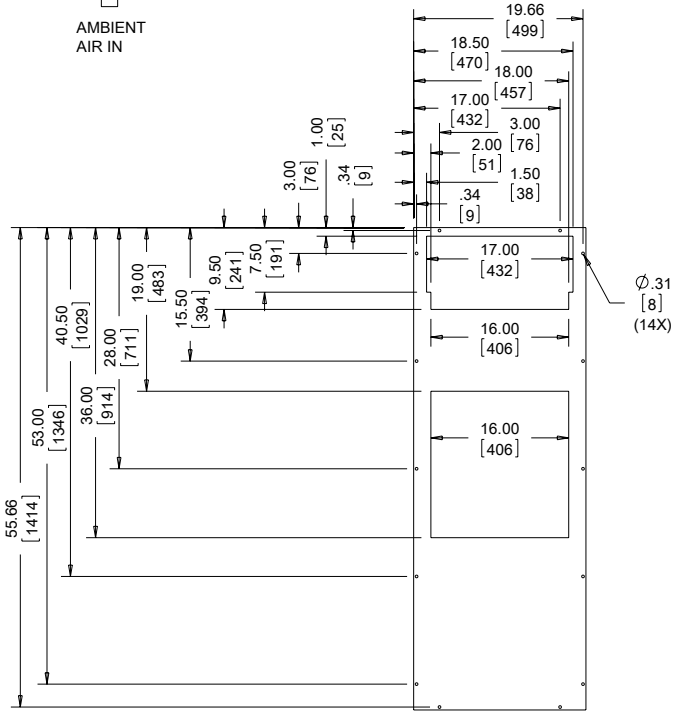




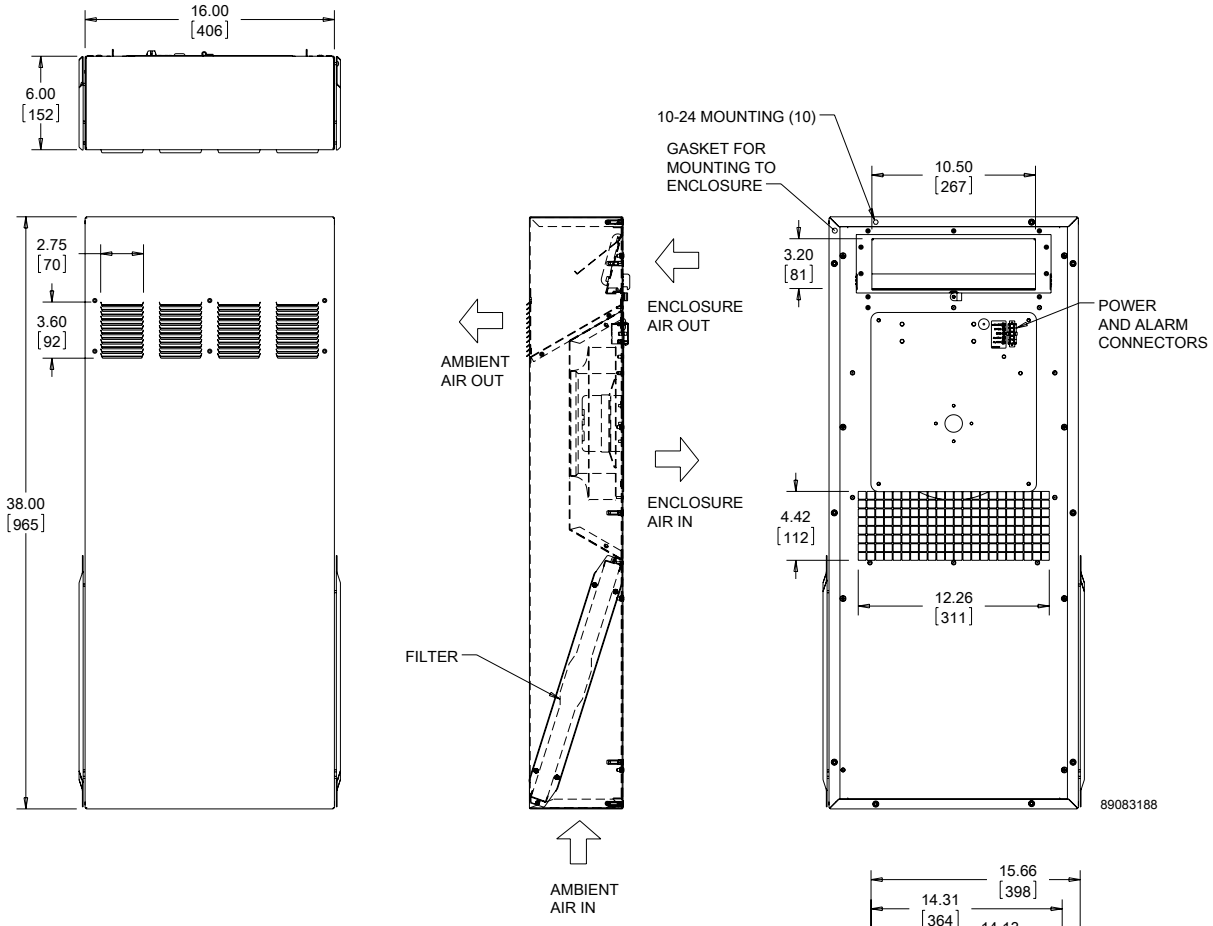


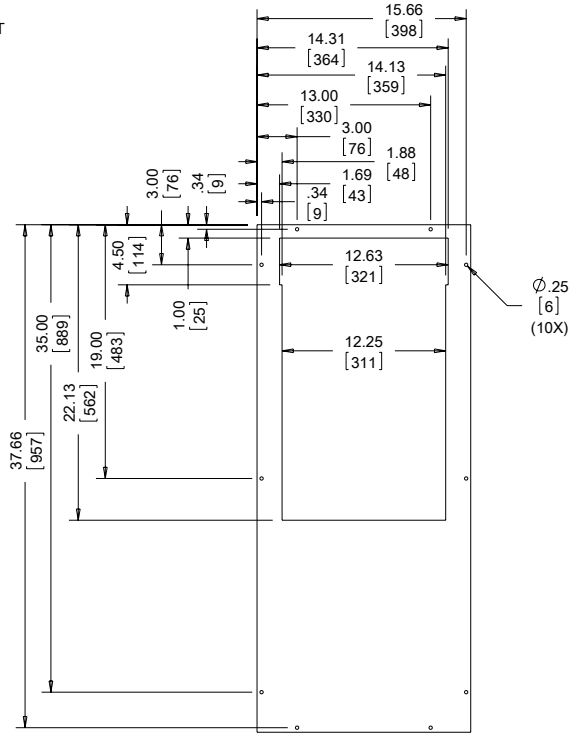


CUTOUT DIMENSIONS

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.

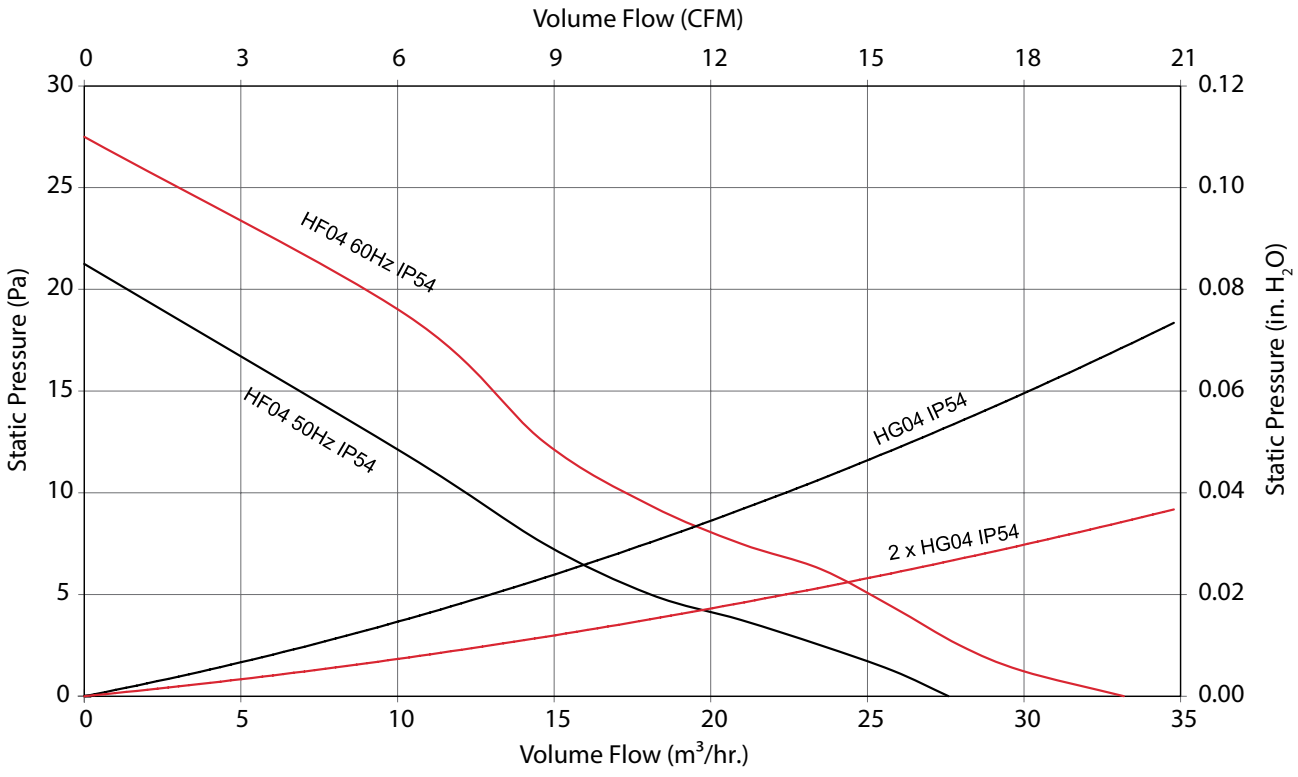
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

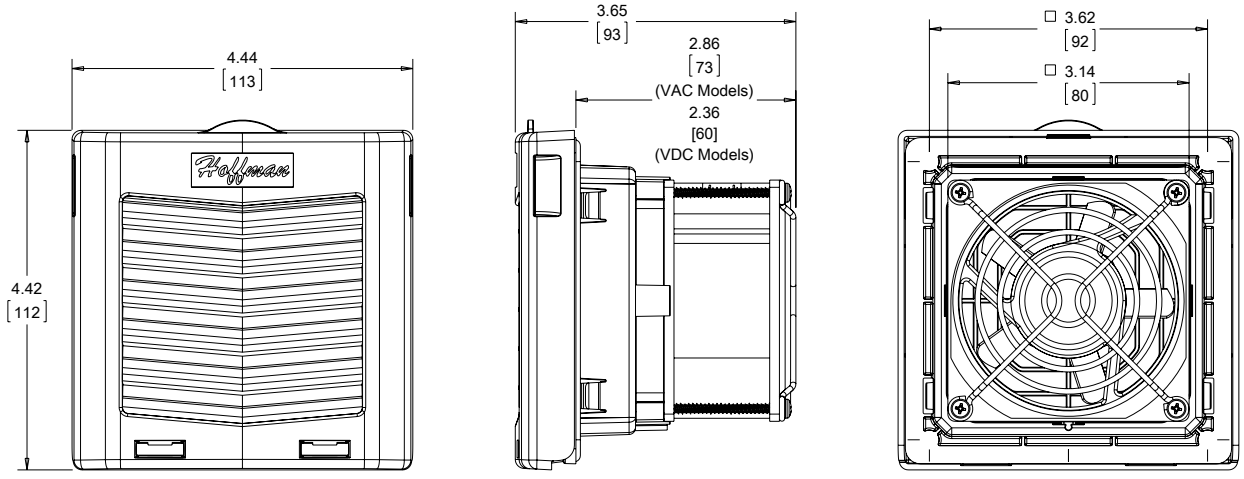
* This indicates a DC Voltage.

Performance Curves for HF04 Models 21 CFM (36 m^3/hr.) Side-Mount Filter Fans

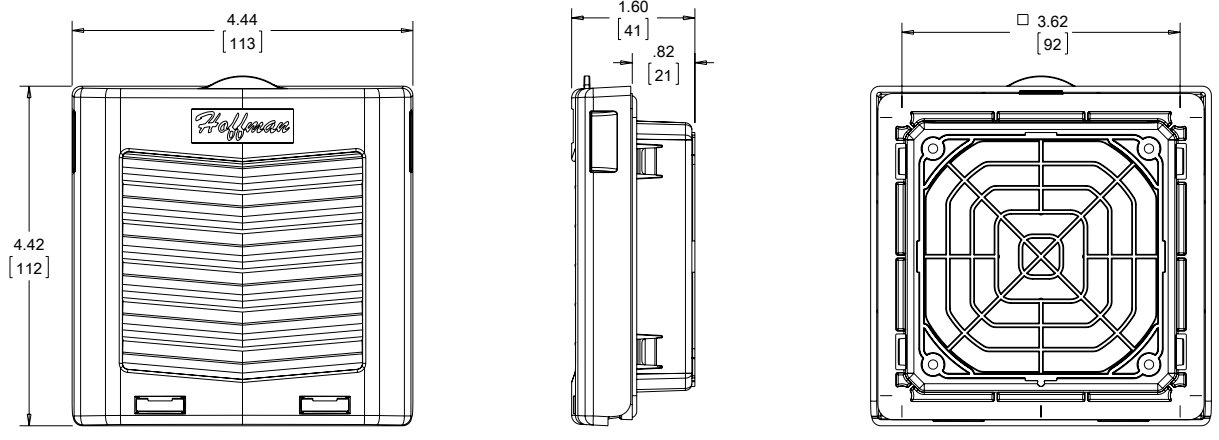
HF04 Capacity Curve, IP54



HF04 21 CFM (36 m³/hr.) Side-Mount Filter Fans

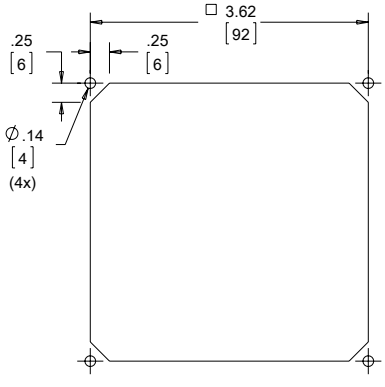


Exhaust Grille



Order exhaust grille kits separately.

89140582



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.

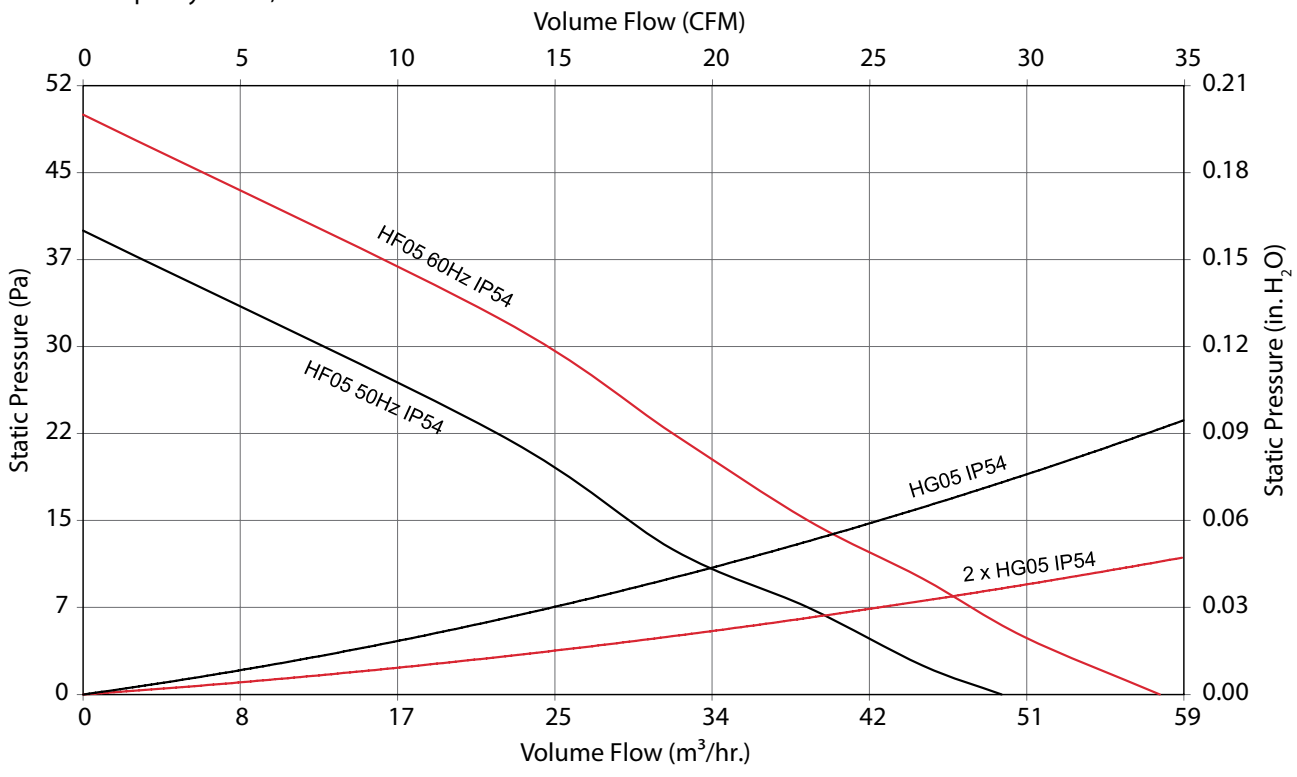
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

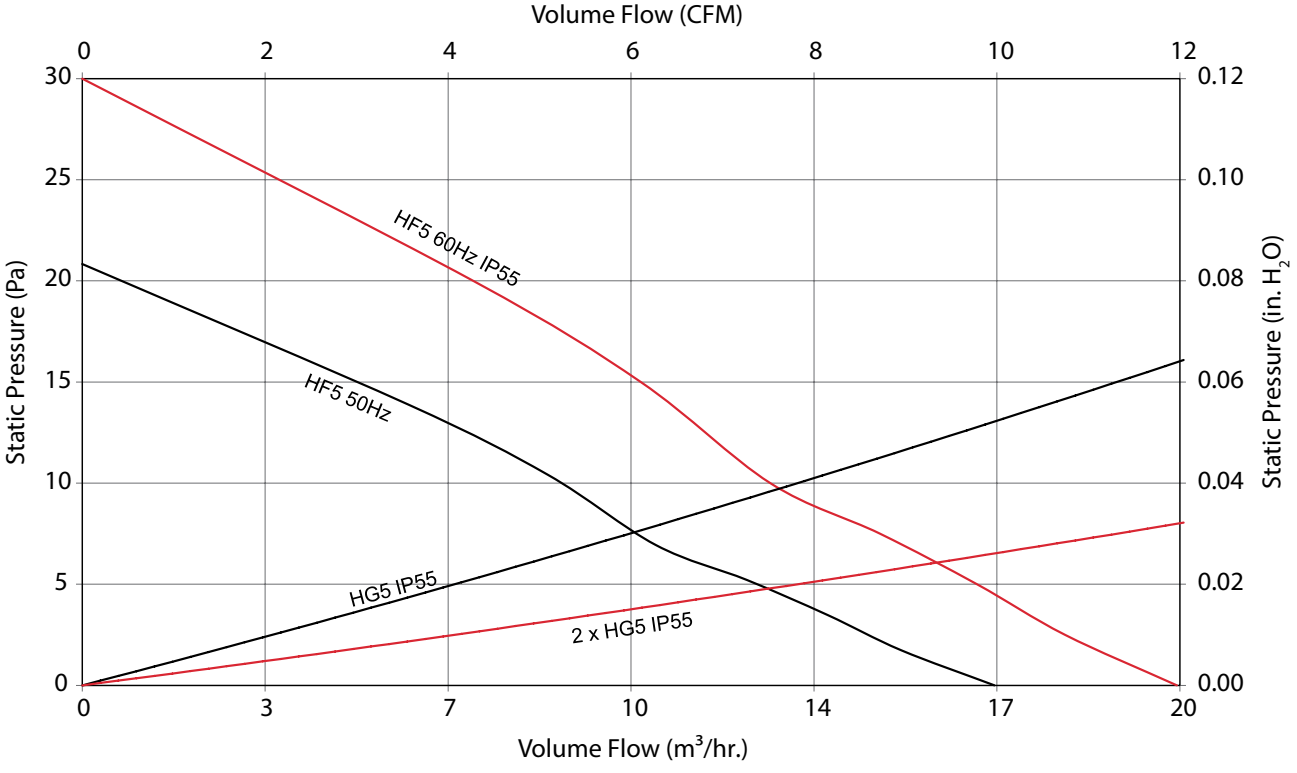
* This indicates a DC Voltage.

Performance Curves for HF05 Models 35 CFM (59 m³/hr.) Side-Mount Filter Fans

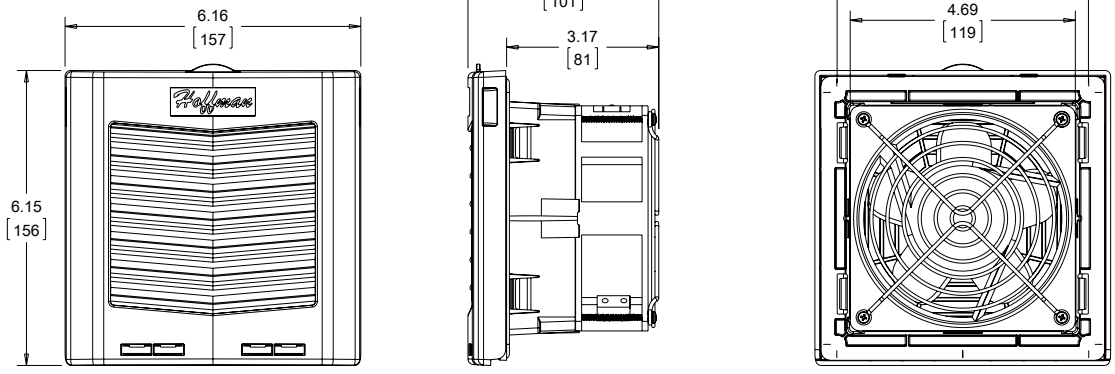
HF05 Capacity Curve, IP54



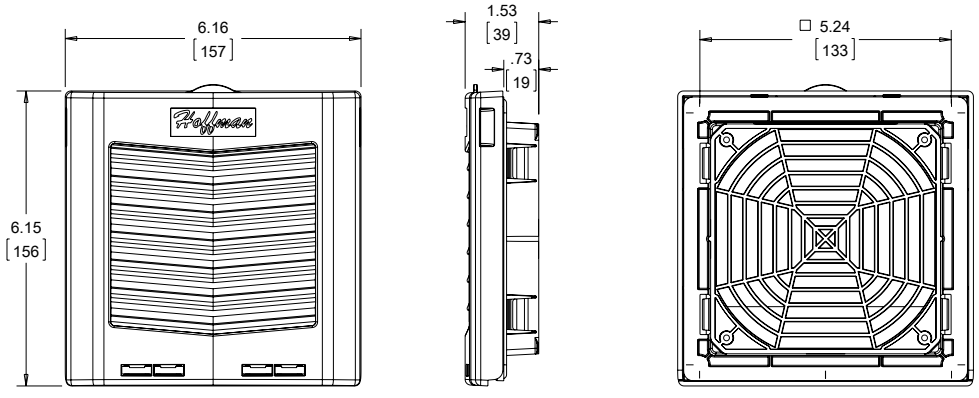
HF05 Capacity Curve, IP55



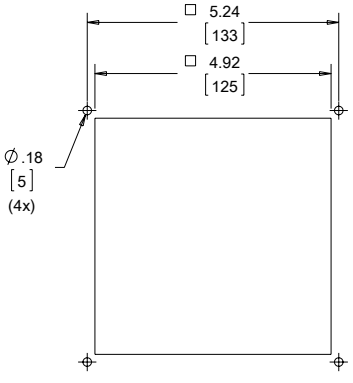
HF05 35 CFM (59 m³/hr.) Side-Mount Filter Fans



Exhaust Grille



Order exhaust grille kits separately.



Cutout Dimensions

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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.

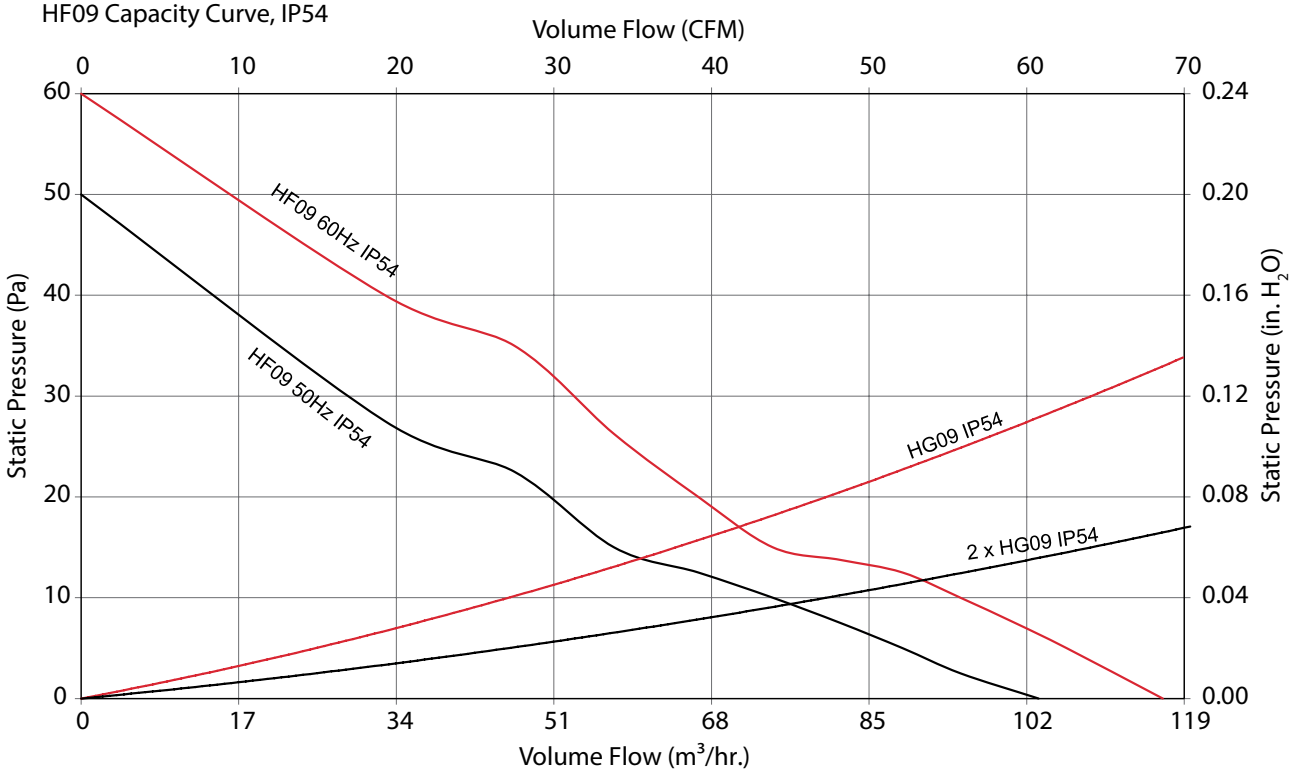
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

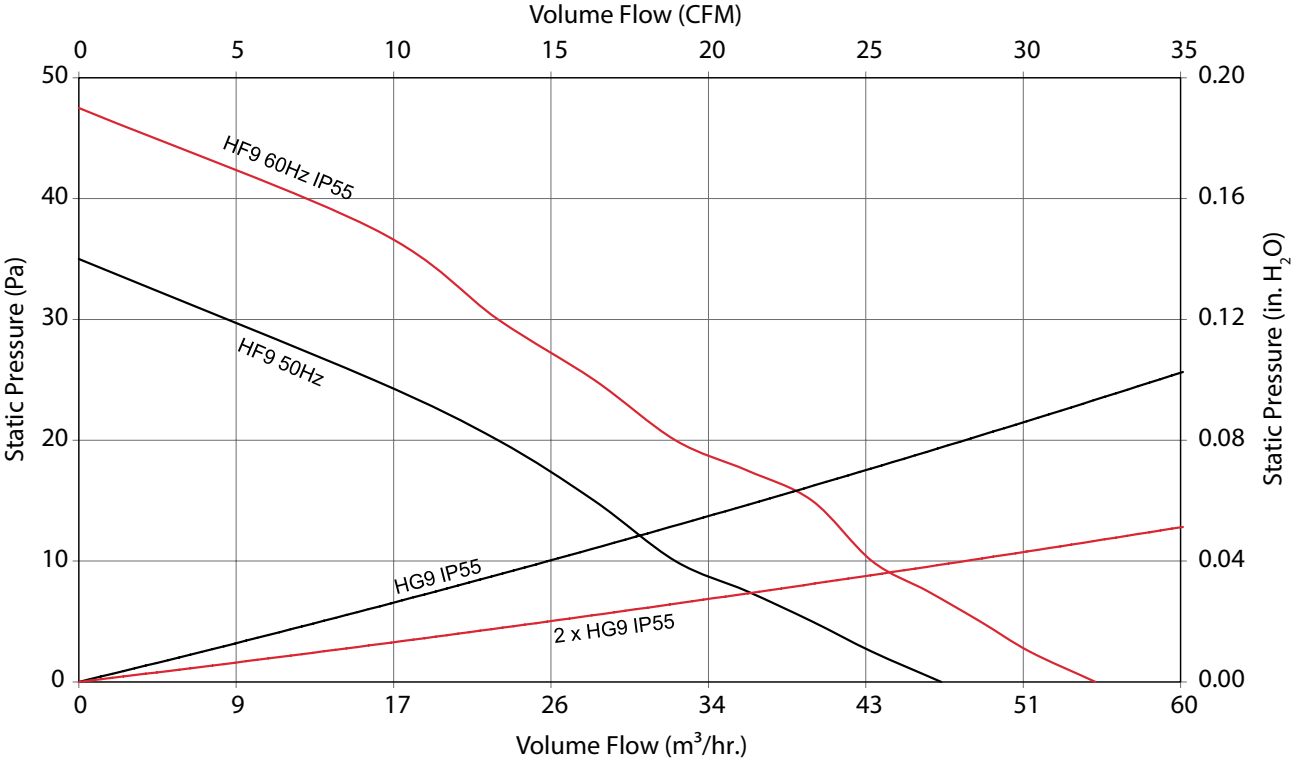
* This indicates a DC Voltage.

Performance Curves for HF09 Models 70 CFM (119 m³/hr.) Side-Mount Filter Fans

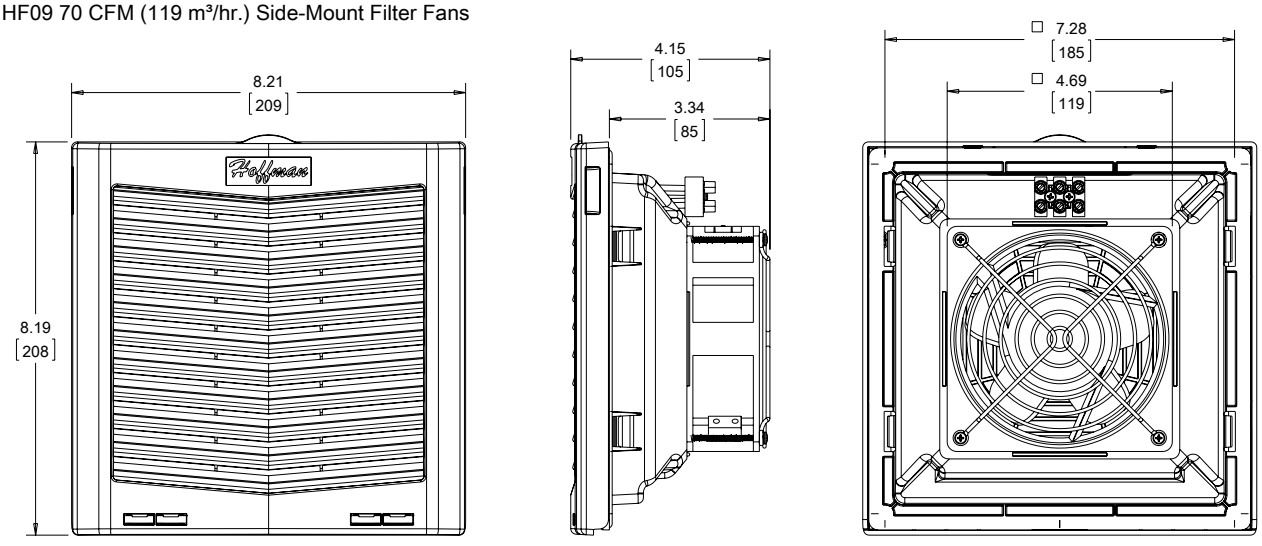
HF09 Capacity Curve, IP54



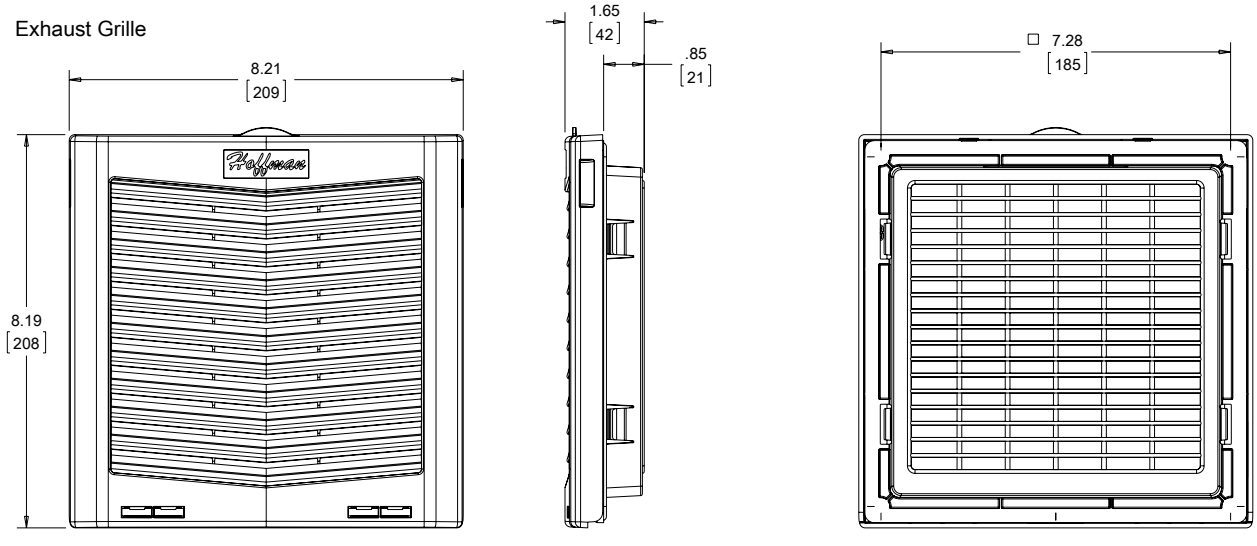
HF09 Capacity Curve, IP55



HF09 70 CFM (119 m³/hr.) Side-Mount Filter Fans



Exhaust Grille



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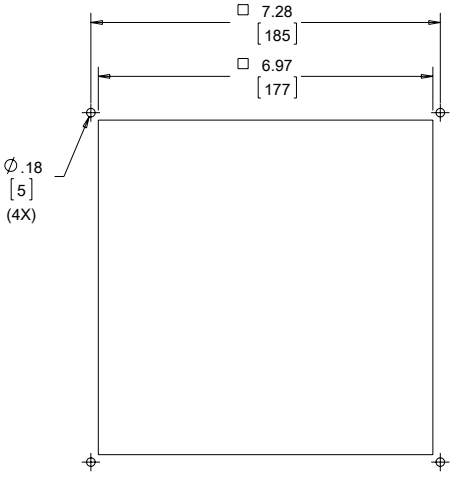


Cutout Dimensions

Visit nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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.

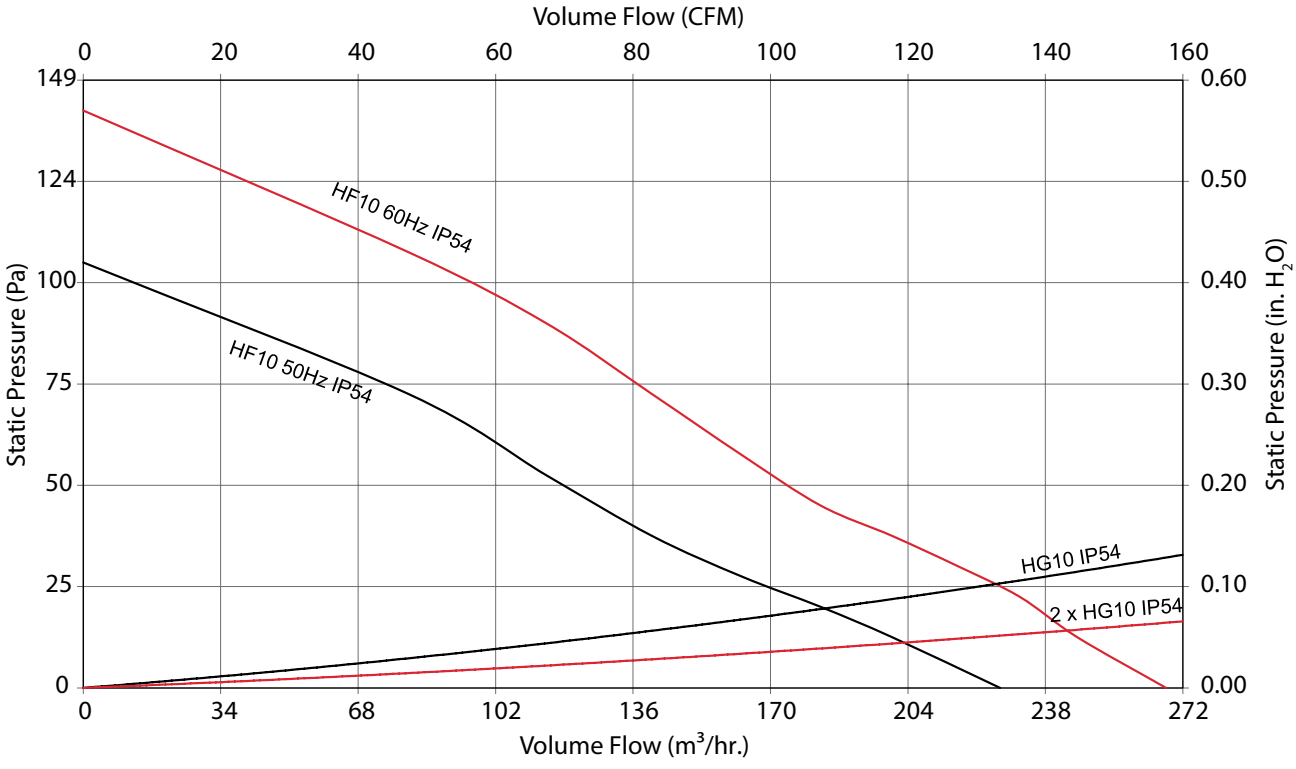
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

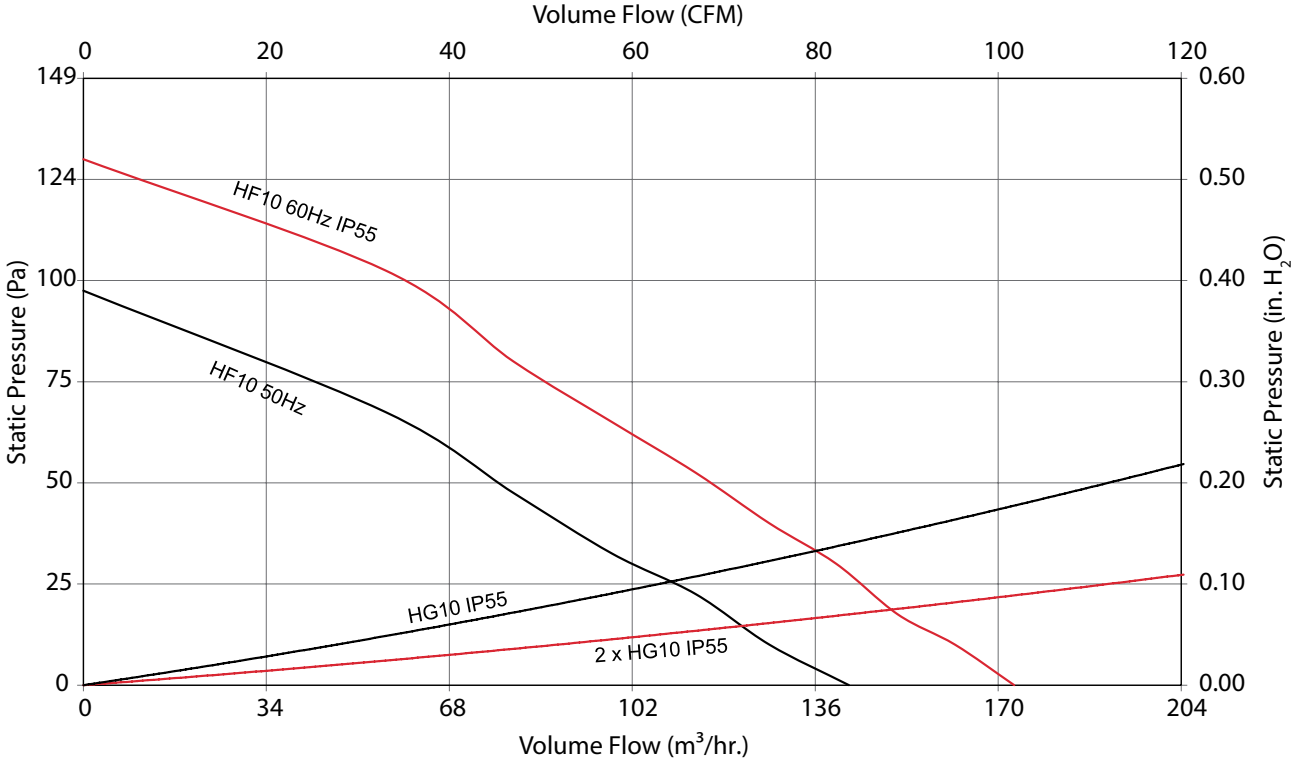
* This indicates a DC Voltage.

Performance Curves for HF10 Models 159 CFM (270 m^3/hr.) Side-Mount Filter Fans

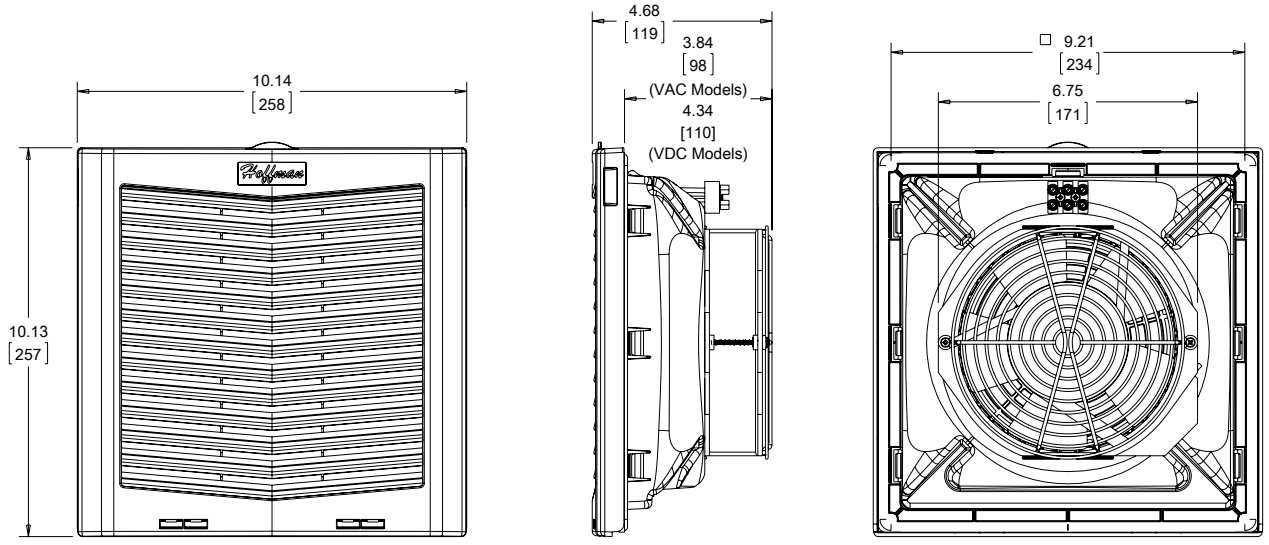
HF10 Capacity Curve, IP54



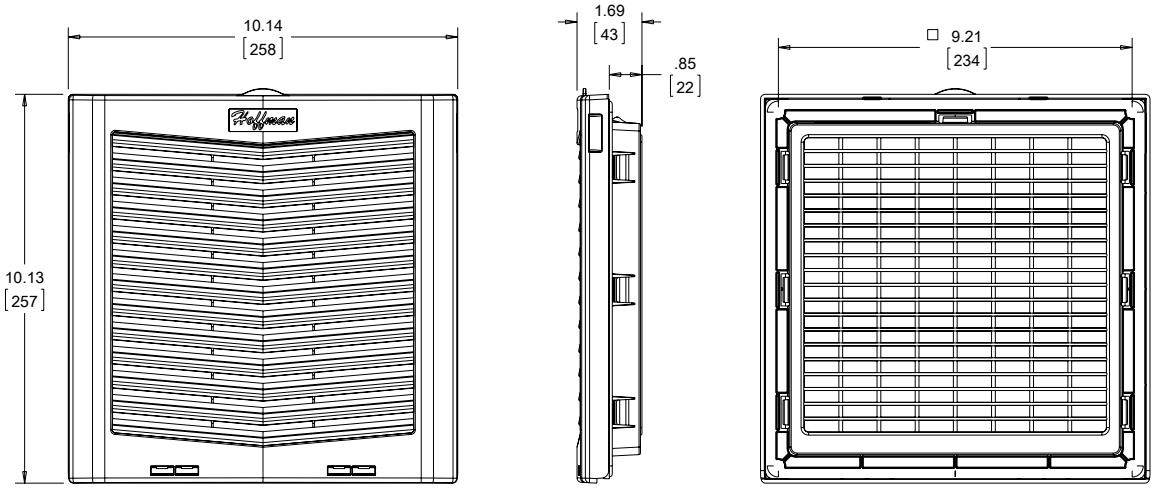
HF10 Capacity Curve, IP55



HF10 159 CFM (270 m³/Hr.) Side-Mount Filter Fans



Exhaust Grille



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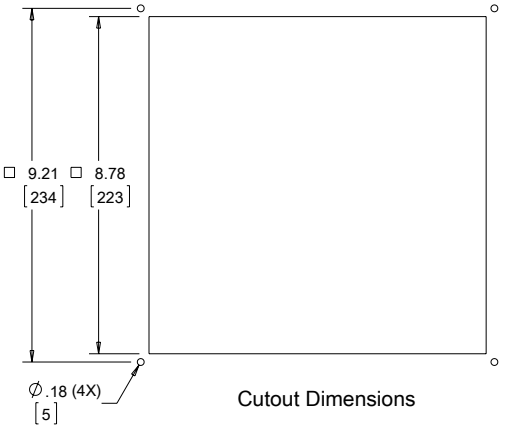


Cutout Dimensions

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.

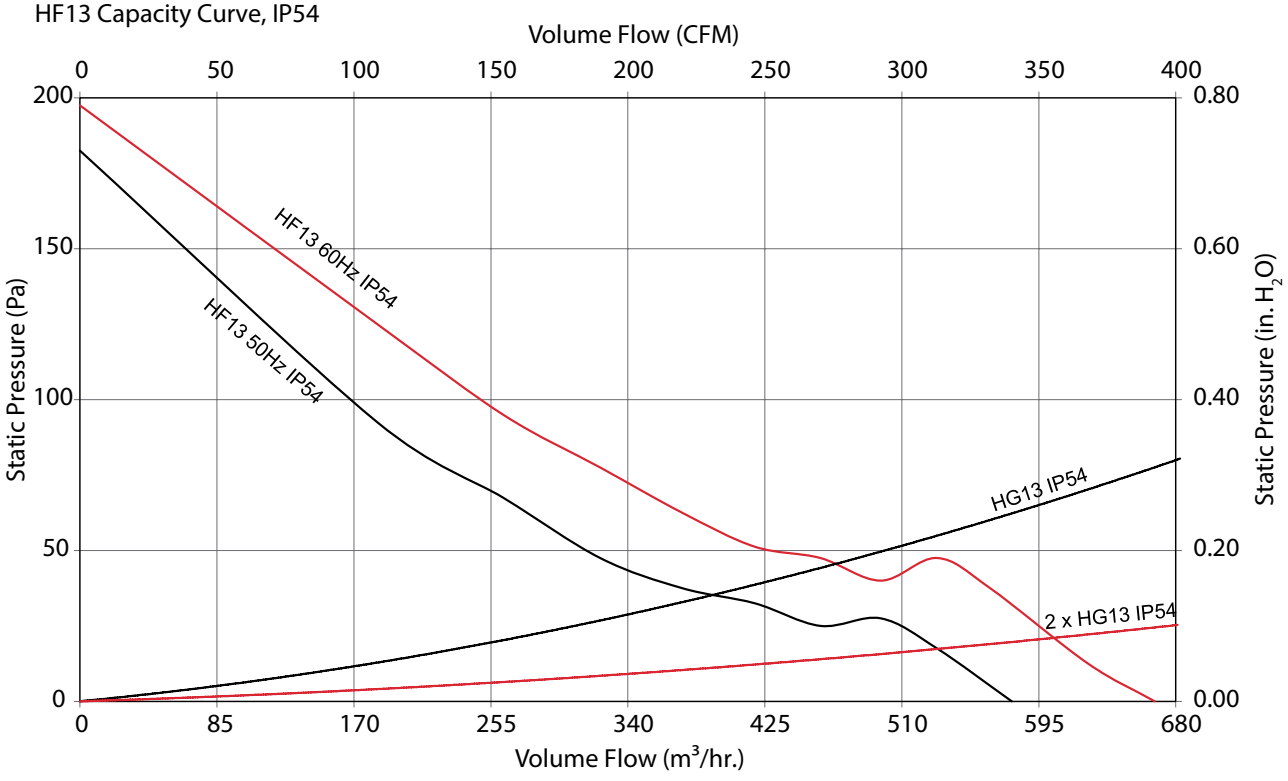
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

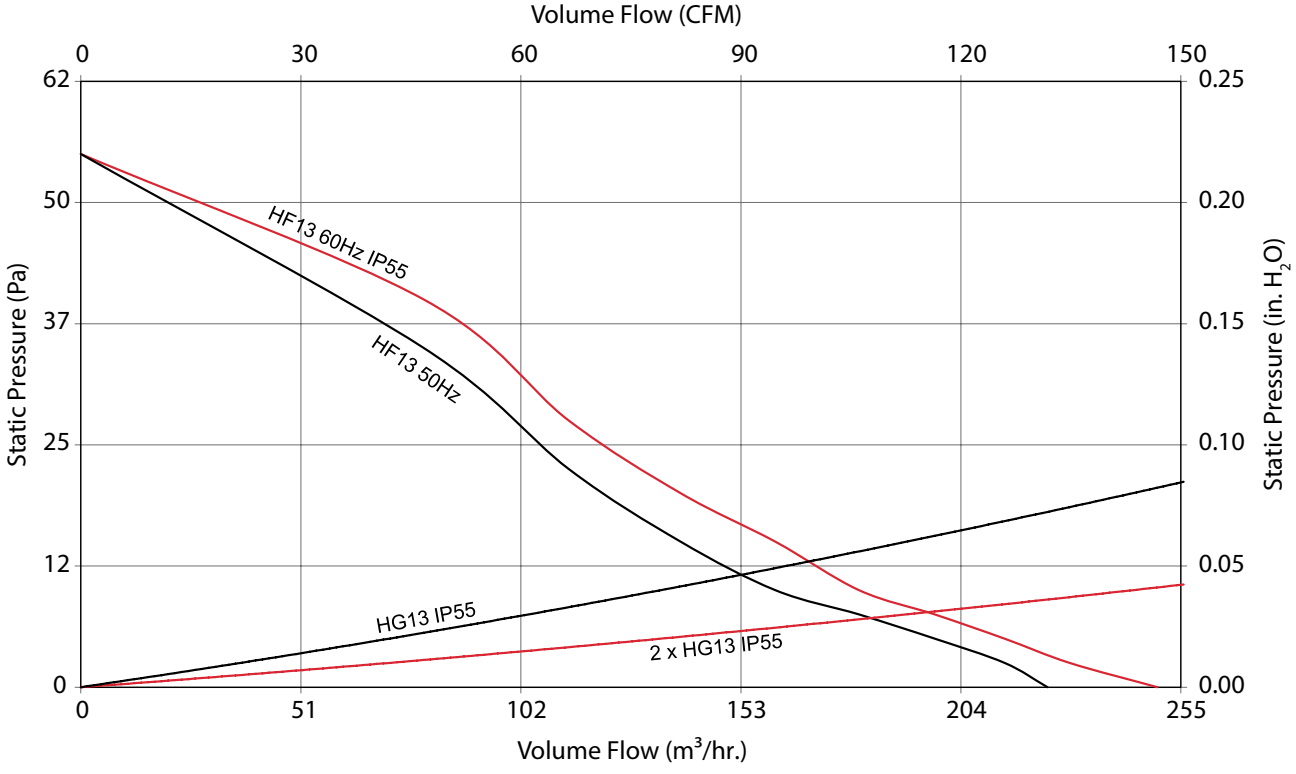
* This indicates a DC Voltage.

Performance Curves for HF13 Models 395 CFM (671 m³/hr.) Side-Mount Filter Fans

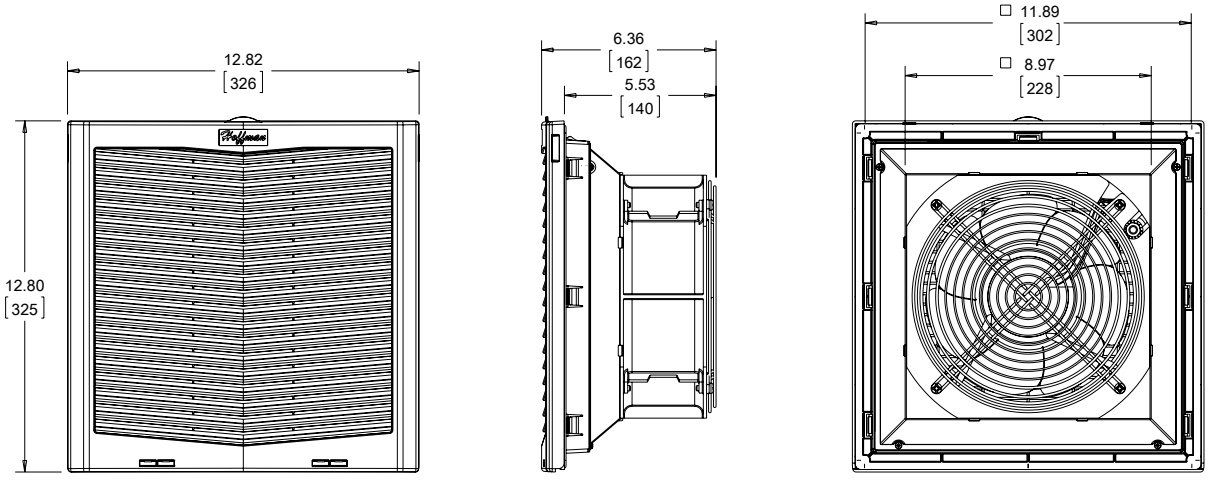
HF13 Capacity Curve, IP54



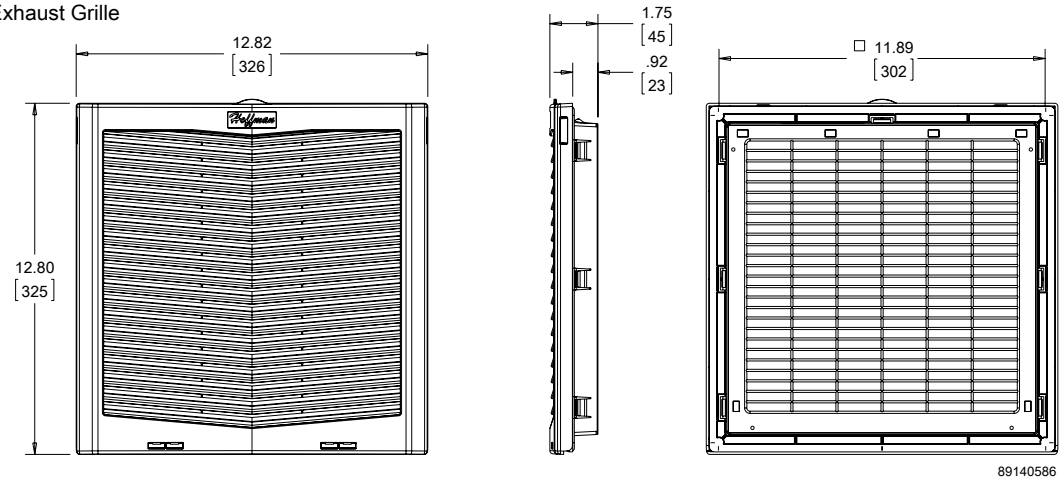
HF13 Capacity Curve, IP55

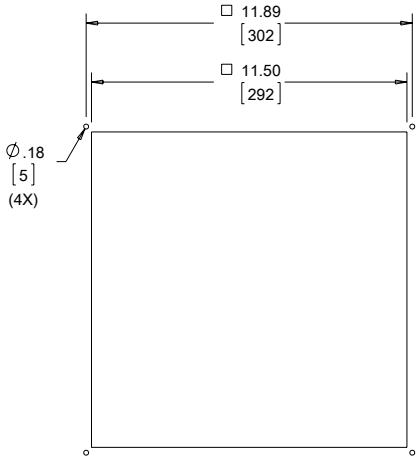


HF13 395 CFM (671 m³/hr.) Side-Mount Filter Fans - Standard and Reverse



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.

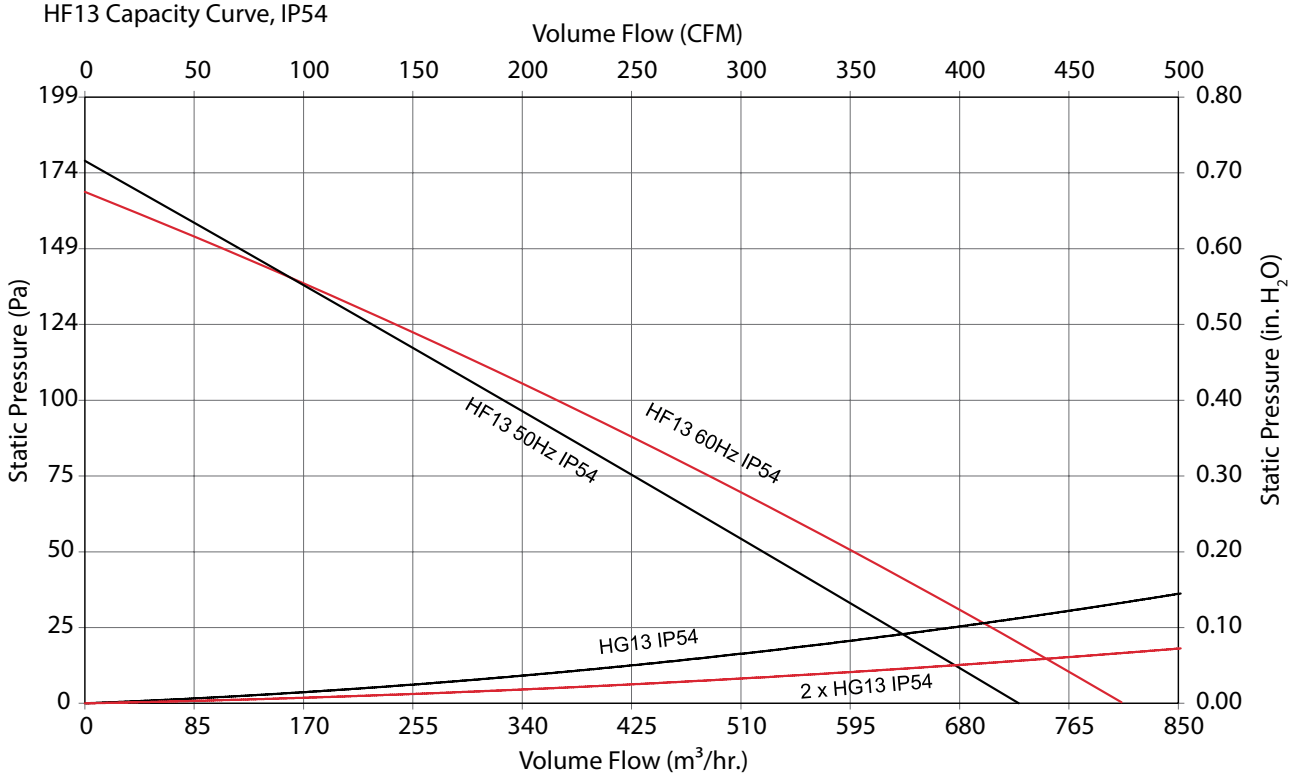
Unit depth is from the back edge of the grille to the back of the fan.

Exhaust Grilles sold separately.

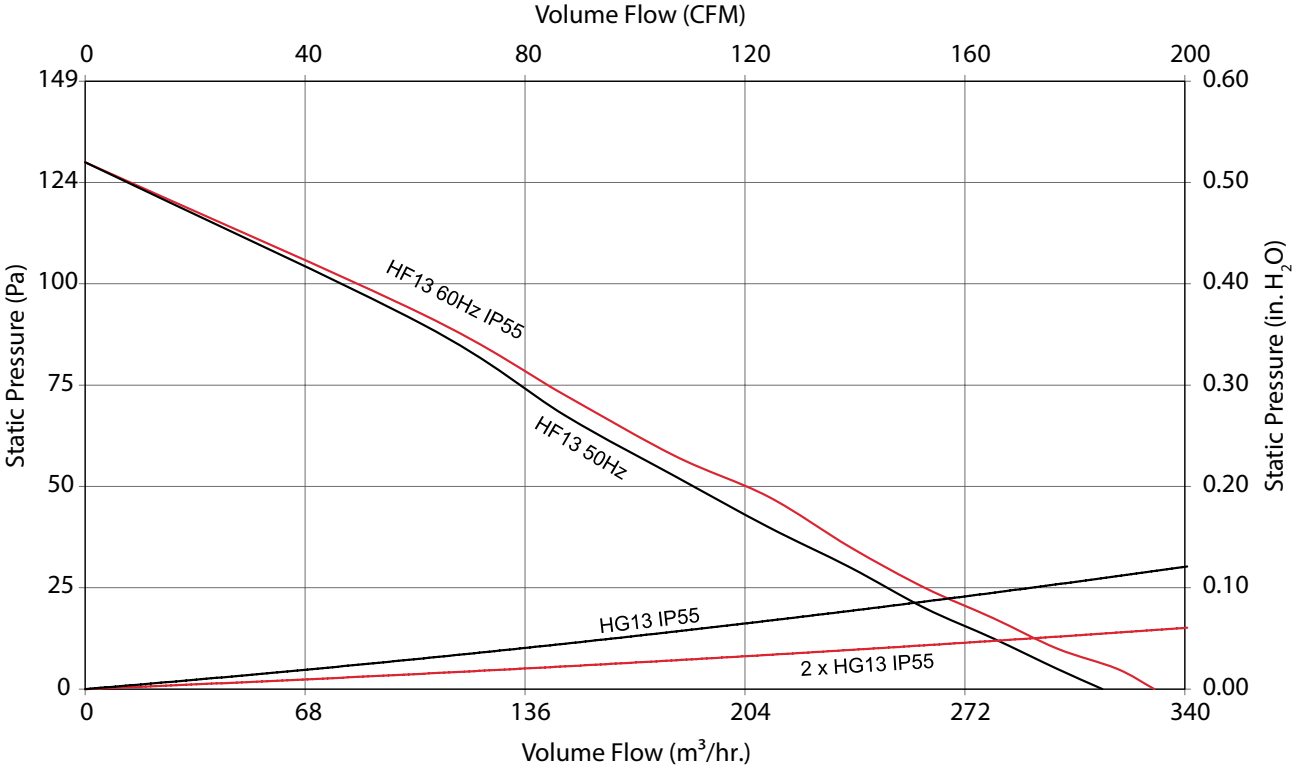
* This indicates a DC Voltage.

Performance Curves for HF13 Models 484 CFM (822 m^3/hr.) Side-Mount Filter Fans

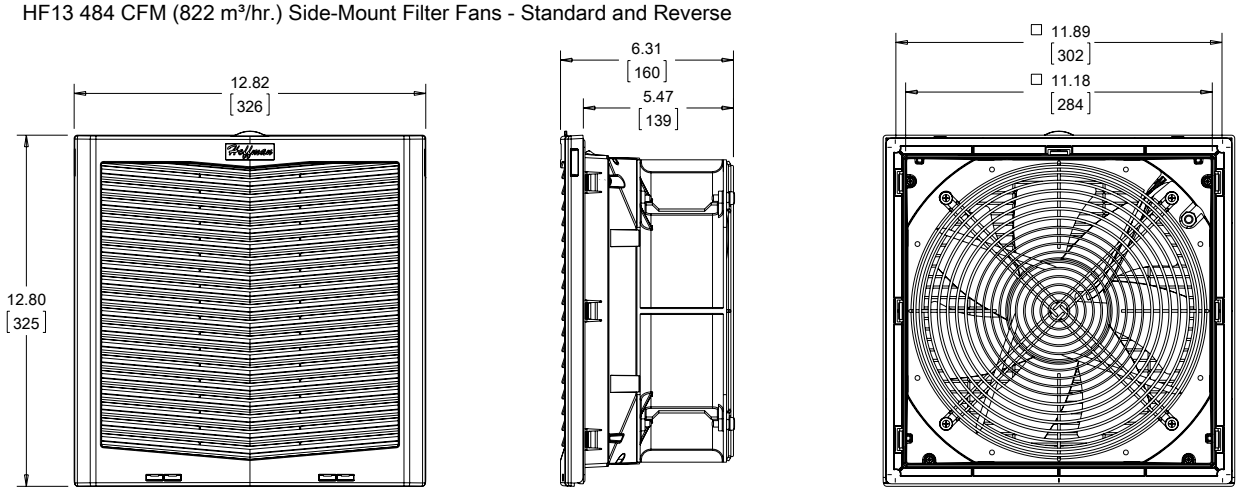
HF13 Capacity Curve, IP54



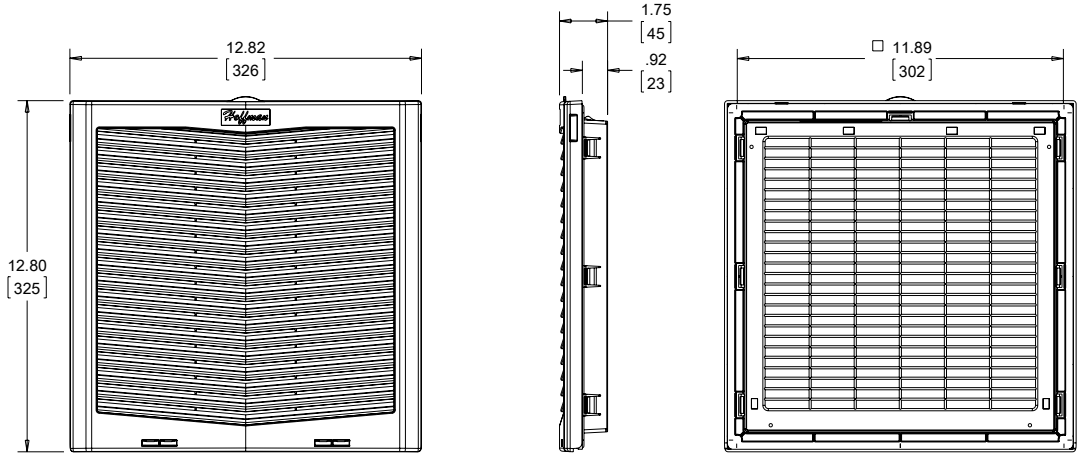
HF13 Capacity Curve, IP55

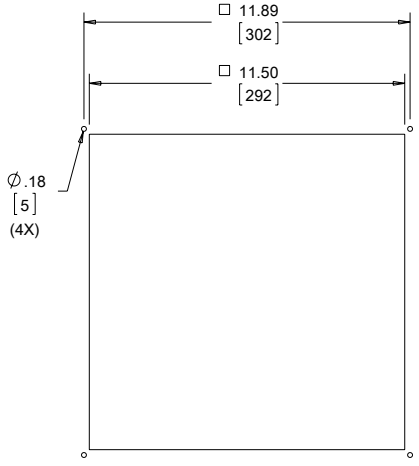


HF13 484 CFM (822 m³/hr.) Side-Mount Filter Fans - Standard and Reverse



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

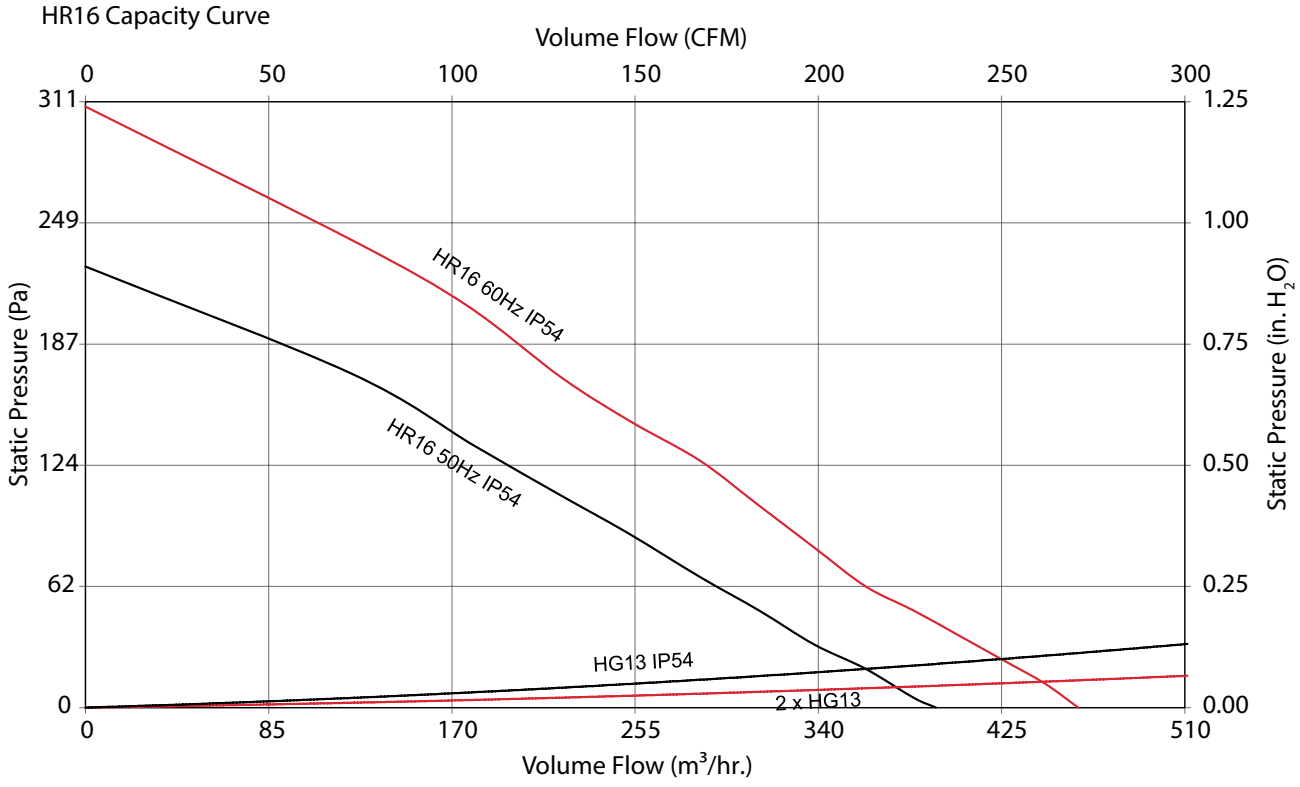
NOTES

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**

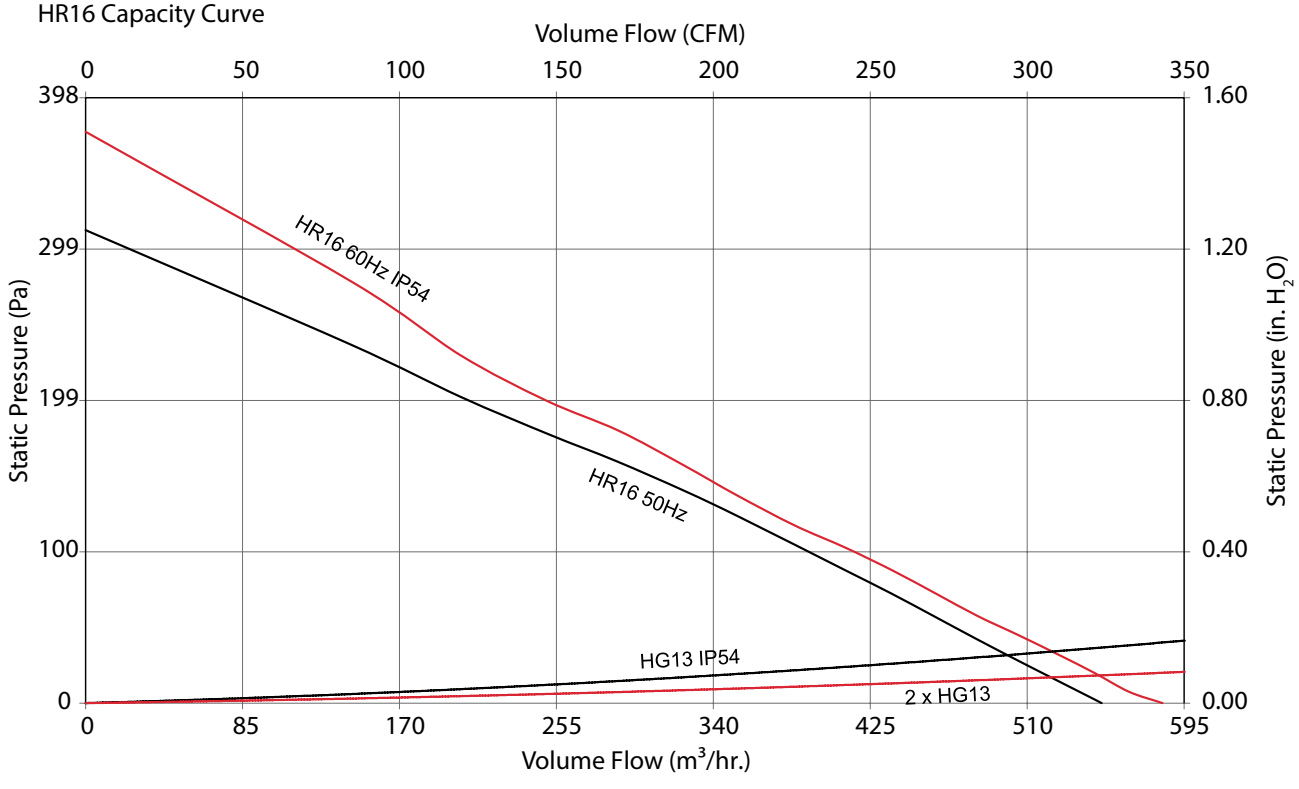
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Nominal Current Maximum (Amps)	.82	.48
Power Consumption Maximum (Watts)	80	108
Power Connection	Terminal Block	
FILTER FANS		
RAL 7035 Light Gray:		
Catalog Number	**HR1616414**	**HR1626414**
Free Airflow (CFM / m^3/hr.)	266/452	266/452
Airflow with 1 Exhaust Grille (CFM / m^3/hr.)	250/425	250/425
Airflow with 2 Exhaust Grilles (CFM / m^3/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

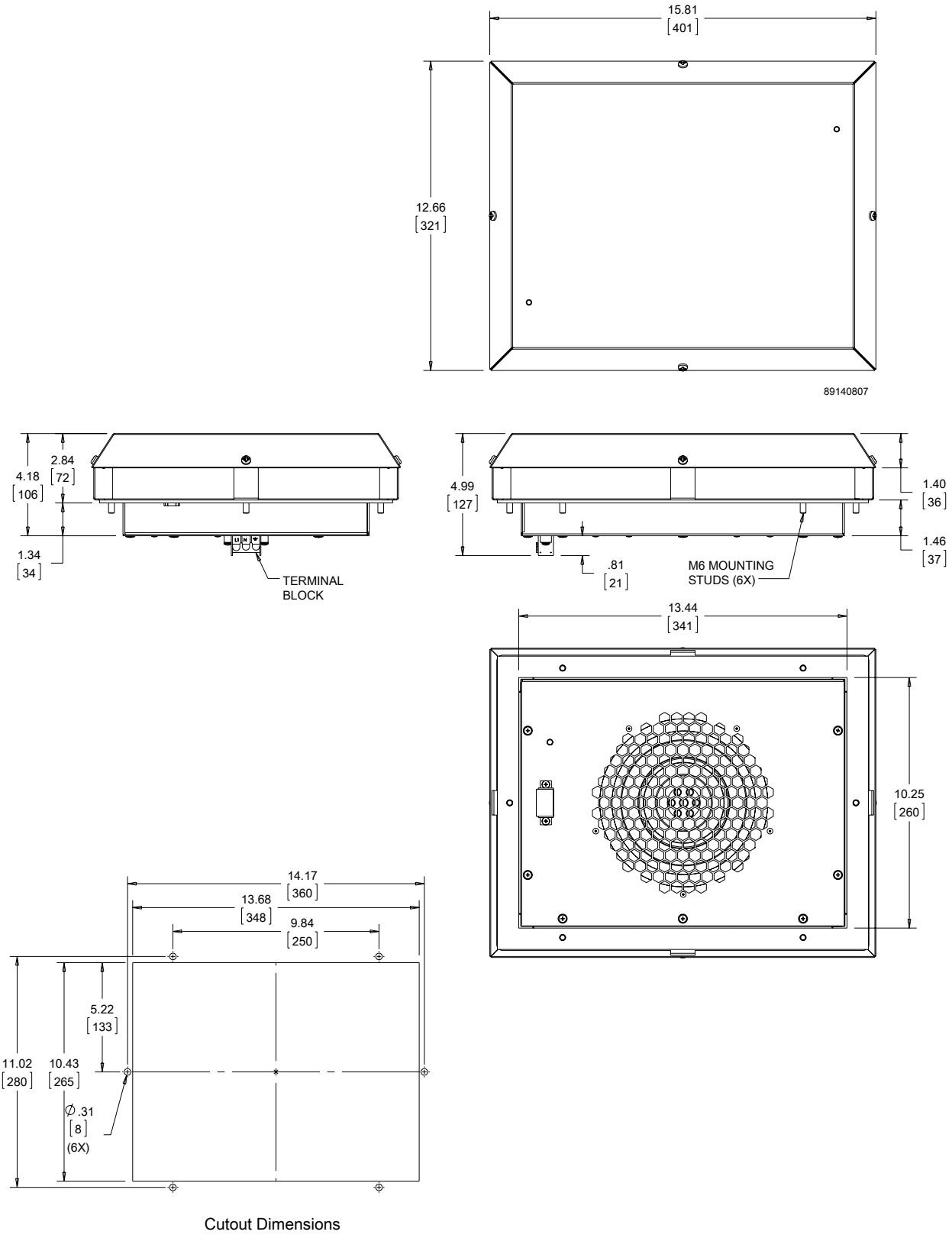


ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Nominal Current Maximum (Amps)	.93	.53
Power Consumption Maximum (Watts)	107	120
Power Connection	Terminal Block	
FILTER FANS		
RAL 7035 Light Gray:		
Catalog Number	**HR1616424**	**HR1626424**
Free Airflow (CFM / m^3/hr.)	348/591	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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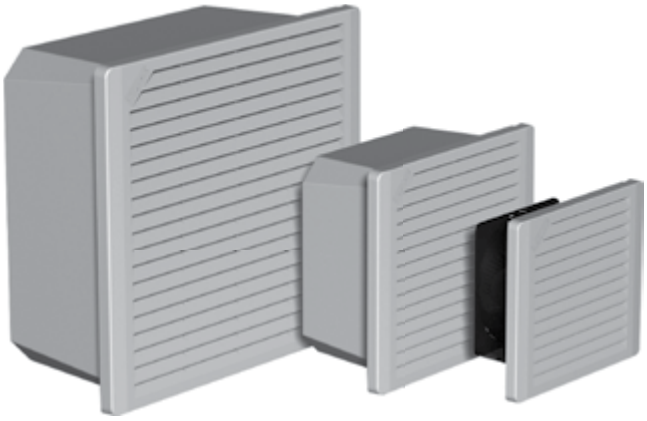
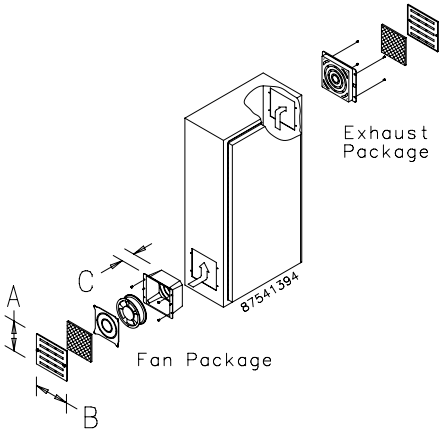
TFP SIDE-MOUNT FANS





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

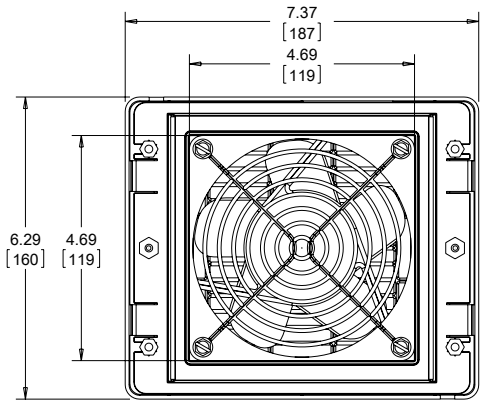
TFP Exhaust Grilles, page 362
TFP Optional Grilles and Replacement Filters, page 362
TFP EMC Upgrade Kit, page 363

Performance Data **TFP4 Models**

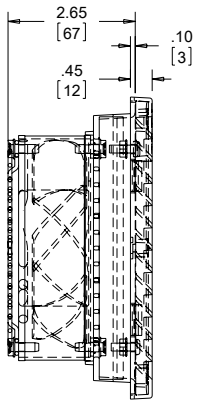
ELECTRICAL DATA			
Rated Voltage	**24 VDC**	**115 VAC**	**230 VAC**
Frequency (Hz)		50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.35	.26/.21	.14/.11
Power Consumption Maximum @ 50/60 Hz (Watts)	8.4	17/15	16/14
Power Connection		Stripped Leadwires	
CATALOG NUMBERS			
Composite Type 1			
Catalog Number	**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.

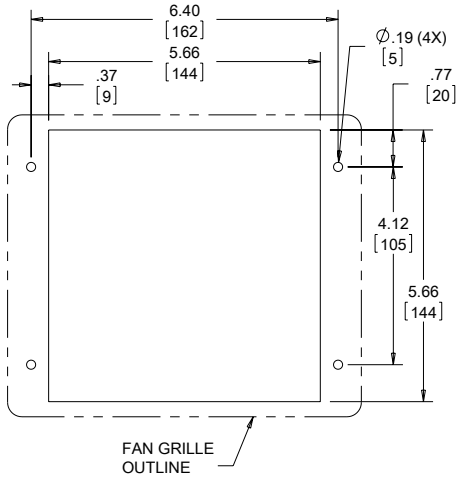
TFP4 Models



BACK VIEW

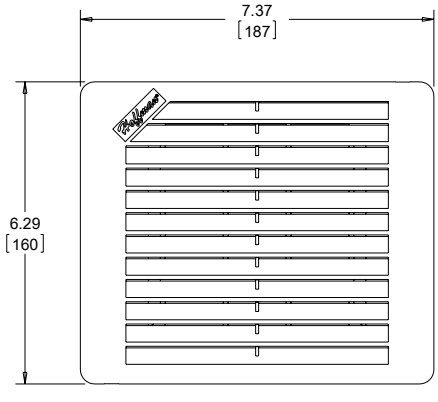


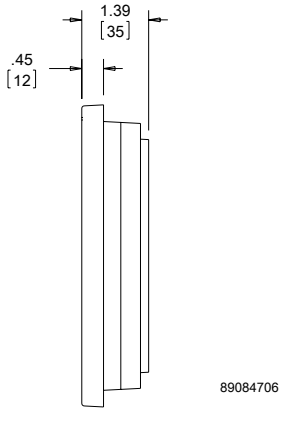
SIDE VIEW



CUTOUT DIMENSIONS

TEP4 EXHAUST GRILLE





Exhaust grille included with fan package

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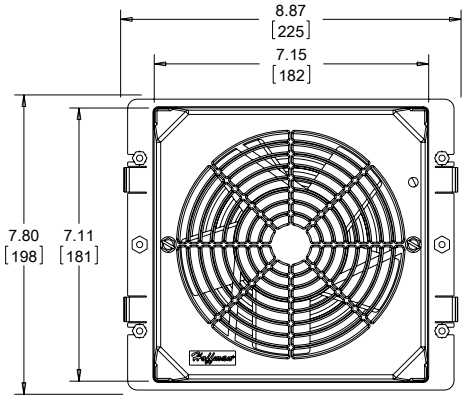
Performance Data **TFP6 Models**

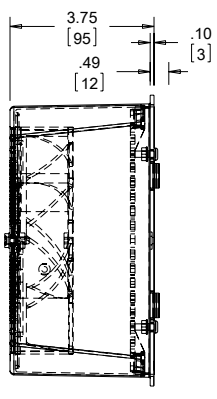
ELECTRICAL DATA			
Rated Voltage	**24 VDC**	**115 VAC**	**230 VAC**
Frequency (Hz)		50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.88	.45/.36	.23/.18
Power Consumption Maximum @ 50/60 Hz (Watts)	21.1	36/32	39/35
Power Connection		Stripped Leadwires	
CATALOG NUMBERS			
Composite Type 1			
Catalog Number	**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.

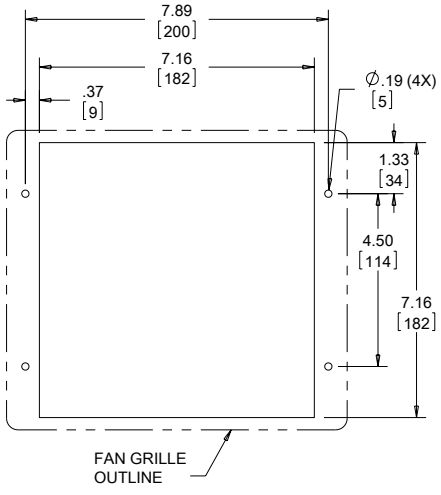
TFP6 Models



BACK VIEW

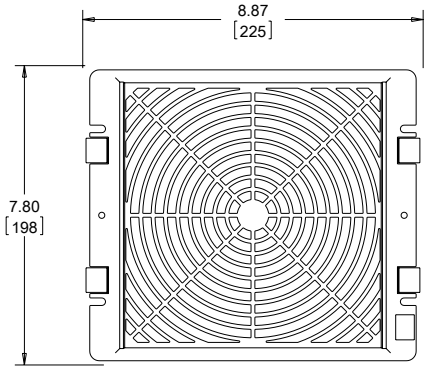


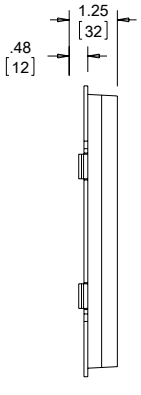
SIDE VIEW



CUTOUT DIMENSIONS

TEP6 EXHAUST GRILLE





89084710

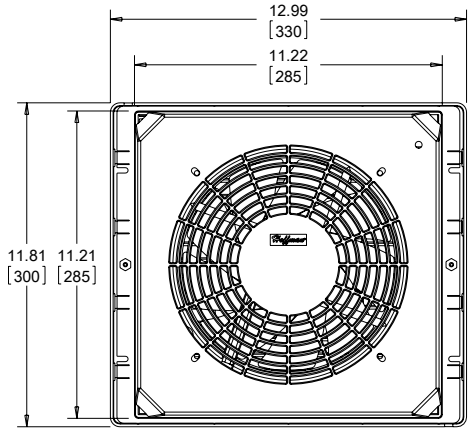
Exhaust grille included with fan package

Performance Data **TFP10 Models**

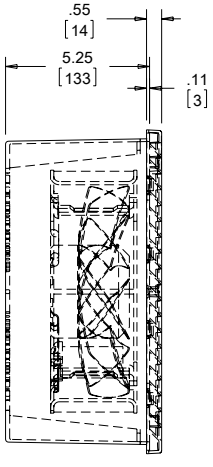
ELECTRICAL DATA		
Rated Voltage	**115 VAC**	**230 VAC**
Frequency (Hz)	50/60	
Nominal Current Maximum @ 50/60 Hz(Amps)	.58/.70	.29/.35
Power Consumption Maximum @ 50/60 Hz (Watts)	64/80	64/80
Power Connection	Stripped Leadwires	
CATALOG NUMBERS		
Composite Type 1		
Catalog Number	**TFP101**	**TFP102**
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.

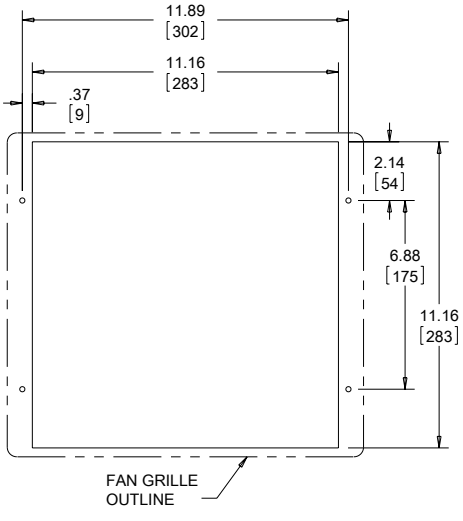
TFP10 Models



BACK VIEW

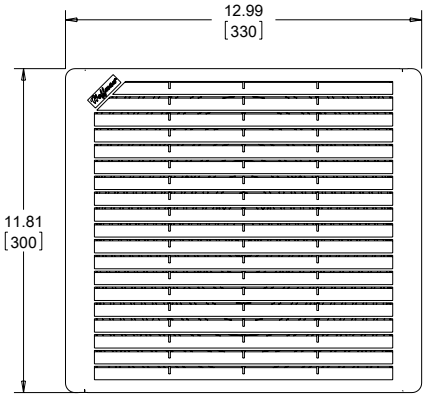


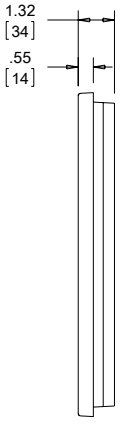
SIDE VIEW



CUTOUT DIMENSIONS

TEP10 EXHAUST GRILLE





89084711

Exhaust grille included with fan package

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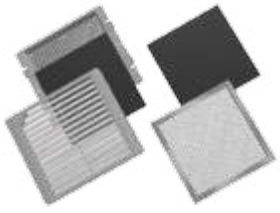
TFP EXHAUST GRILLES

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.

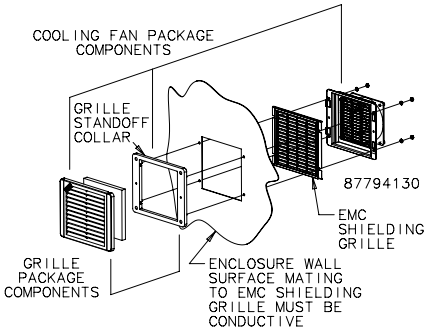
Filters fit all fan and exhaust packages according to their size.

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

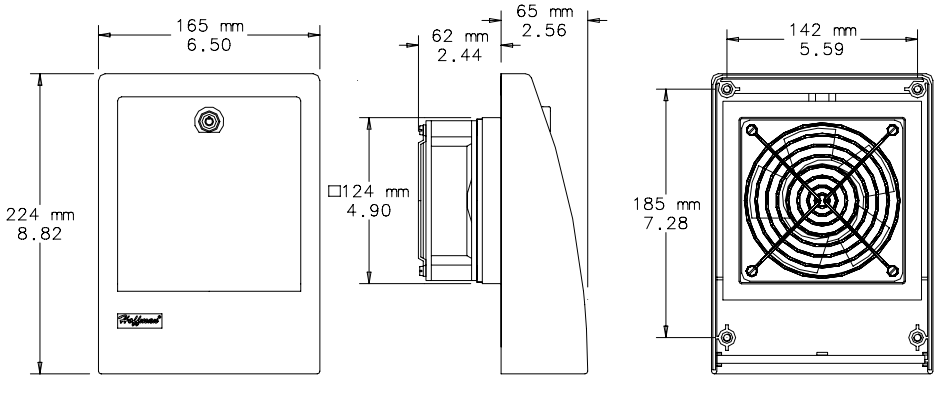
- Light gray plastic, UL94H-B

NOTES

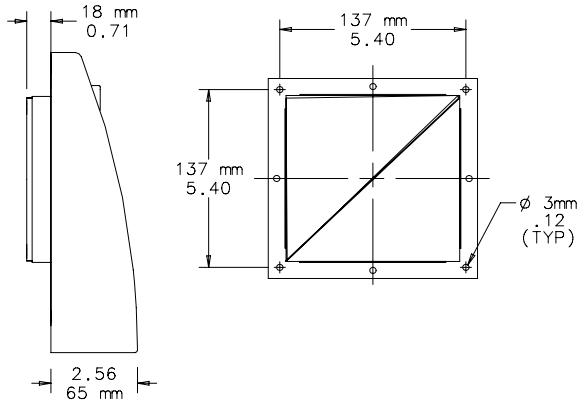
This fan package meets basic requirements for outdoor or indoor applications that require warm air dissipation.

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

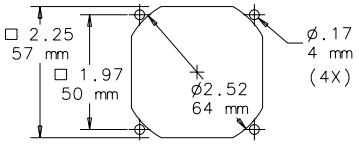
- Fan housing is black.

ACCESSORIES

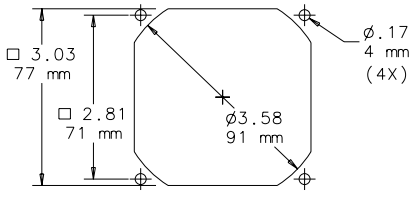
Fan Cords, page 368
Fan Cords With Inline Thermostat, page 368
Fan Filter and Finger Guard Kit, page 368
Fan Brackets, page 369
Finger Guards, page 369

Design Data **Compact Axial Fans**

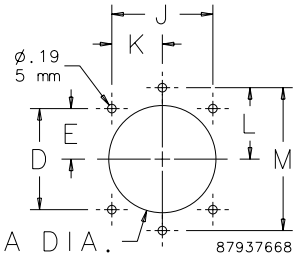
CATALOG NUMBERS	Nominal Size	Voltage	A in./mm	D in./mm	E in./mm	J in./mm	K in./mm	L in./mm	M in./mm
A2AXFN24	2	24 VDC	—	1.97/50	.98/25	1.97/50	.98/25	—	—
3-in. Fans									
A3AXFN	3	115 VAC	—	2.81/71	1.40/36	2.81/71	1.40/36	—	—
A3AXFN24	3	24 VDC	—	2.81/71	1.40/36	2.81/71	1.40/36	—	—
4-in. Fans									
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



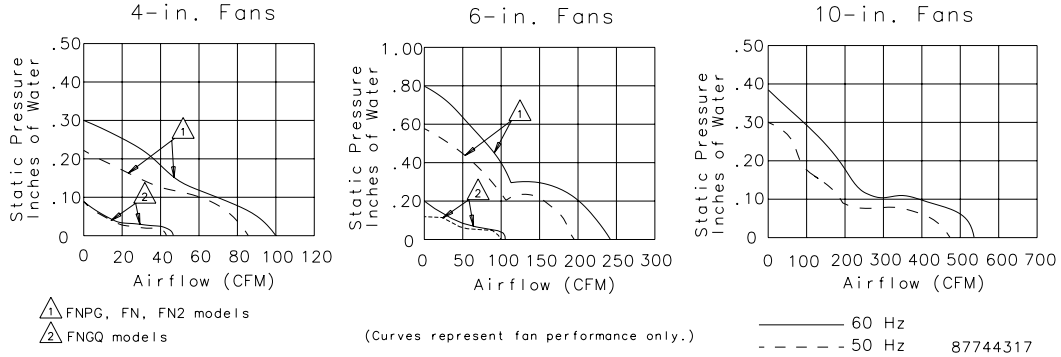
MOUNTING CUTOUT
DIMENSIONS 4,6,10 INCH

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.

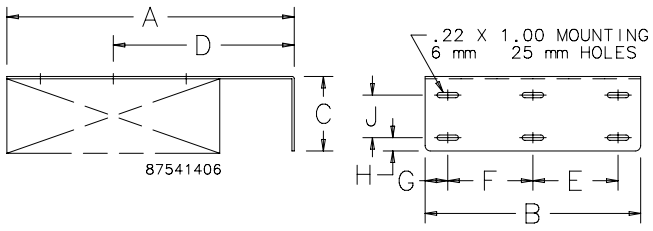
ELECTRICAL DATA	
Rated Voltage	**110-120 VAC**
Maximum Current (Amps)	10
Fan Activation Temperature (°F/°C)	86/30
CATALOG NUMBERS	
	ACORD2T

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

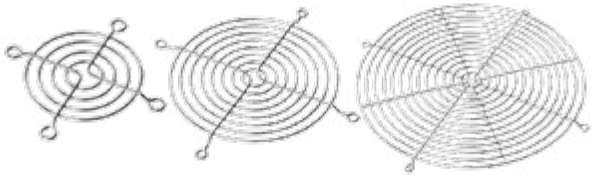
FAN BRACKETS

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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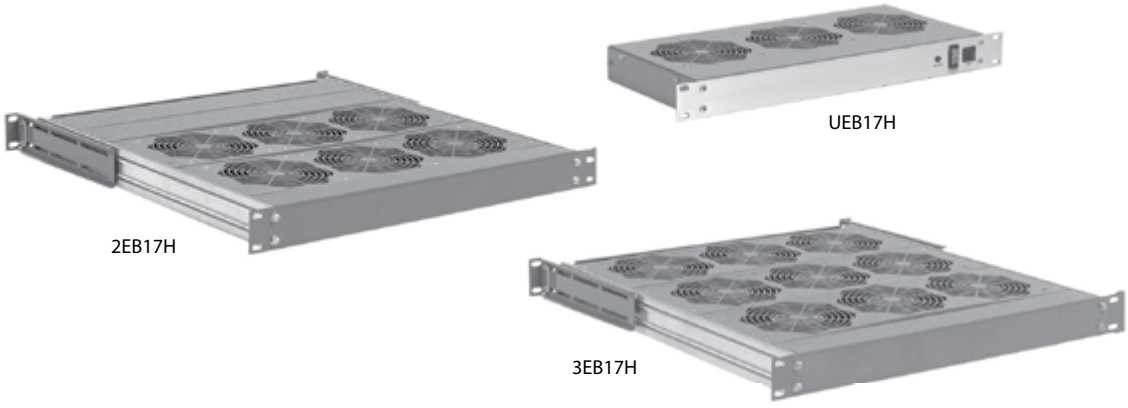
RACK-MOUNTABLE ASSEMBLIES



INDUSTRY STANDARDS

UL recognized

- CSA Certified Motors
- CE

APPLICATION

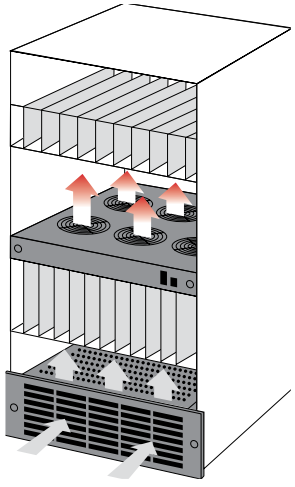
Fan trays are a versatile solution to cooling card cages and racks. Redundant cooling with optional failure detection makes this air mover the obvious choice for sensitive equipment. Minimal rack space and repositionable fans are suited to today's smaller enclosures.

FEATURES

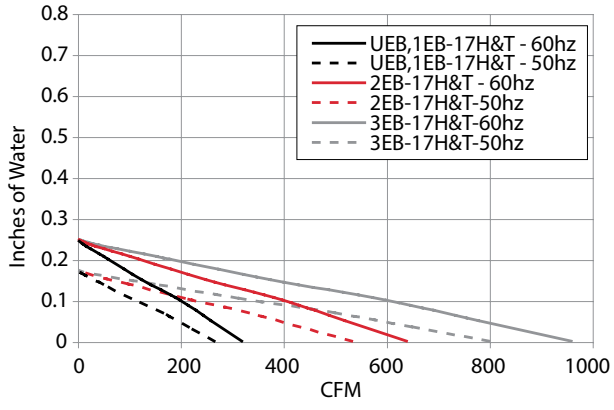
- Slim 1.75 in. (44 mm) Panel Height
- 19-in. rack mountable
- Field adjustable fan strips to optimize air flow
- Easy access to fan tray from front and back
- Simplified installation without the need for side access
- Support bracket
- Exhaust Guard
- 6-inch Power Cord AC trays, Terminal block on DC trays
- Permanently lubricated ball bearing motors
- 100% functionally tested

SPECIFICATIONS

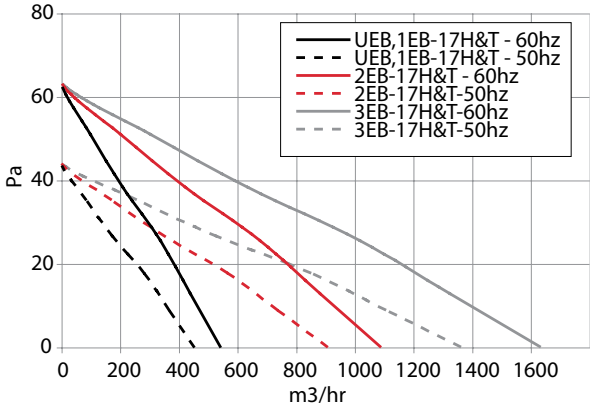
- 115/230 VAC
- 24 VDC
- 50/60 Hz

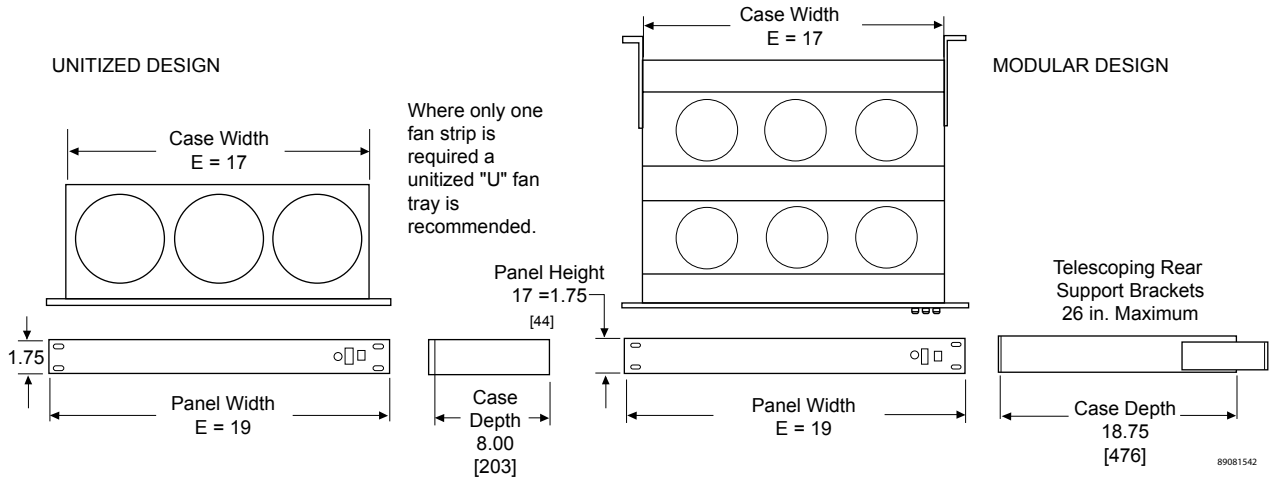


Performance Curves (Inches of Water to CFM)



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

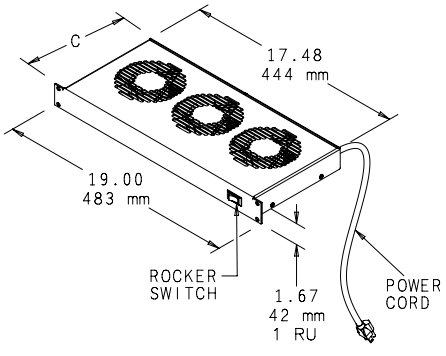
- RAL 9005 black, lightly textured polyester powder paint

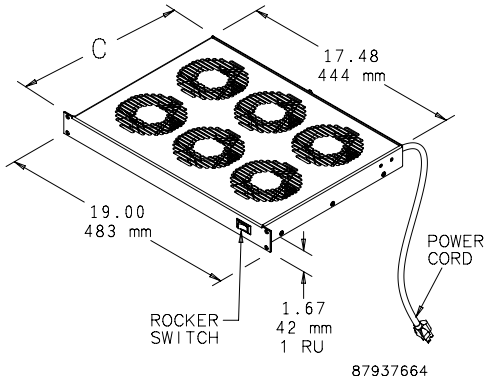
ACCESSORIES

Rack-Mount Fan Speed Control, page 373

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

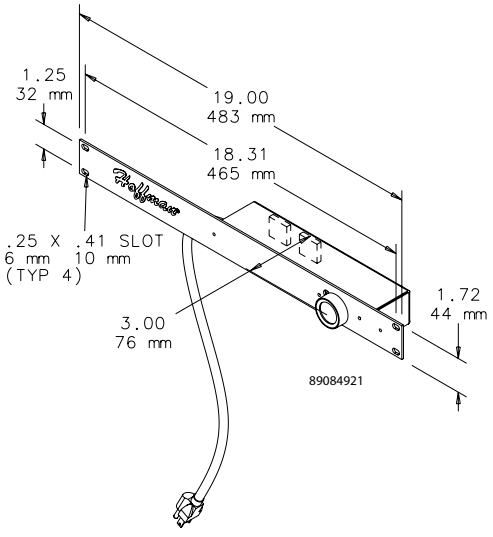
UL 508 Listed; File No. E249700
cUL Listed per CSA C22.2 No. 14; File No. E249700

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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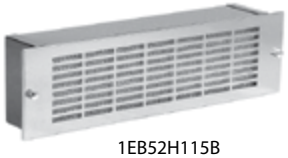
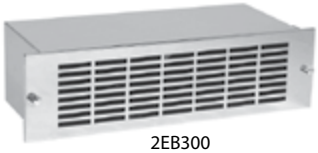
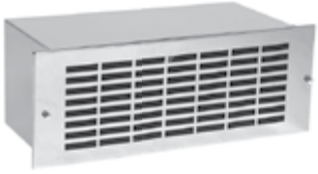
RACK-MOUNTABLE BLOWERS

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.

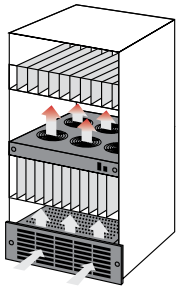
FEATURES

- Permanent, Washable Aluminum Filter
- 19-in. Rack Mountable
- Brushed Aluminum Grille
- Exhaust Guard
- Power Cord
- Permanently lubricated ball bearing motors
- 100% functionally tested

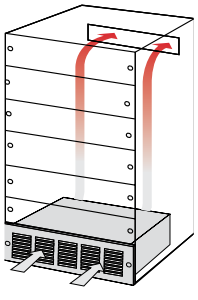
SPECIFICATIONS

- 115/230 VAC
- 50/60 Hz

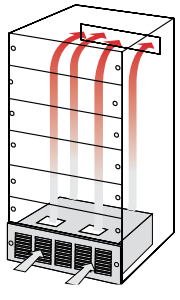
1EB Models



2EB Models



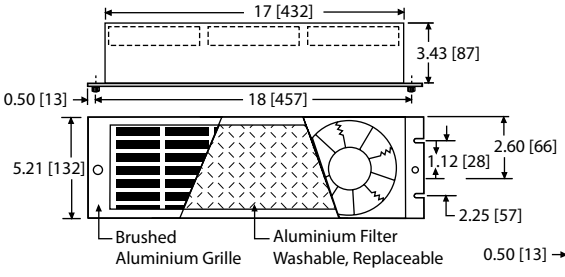
4EB Models



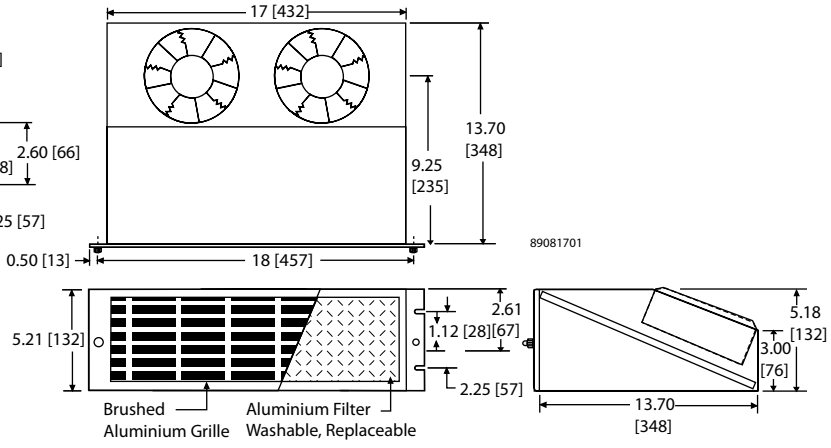
Performance Data **1EB Models**

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

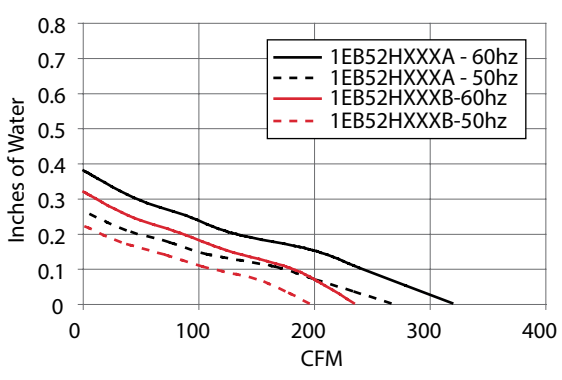
1EB52HxxxB Models

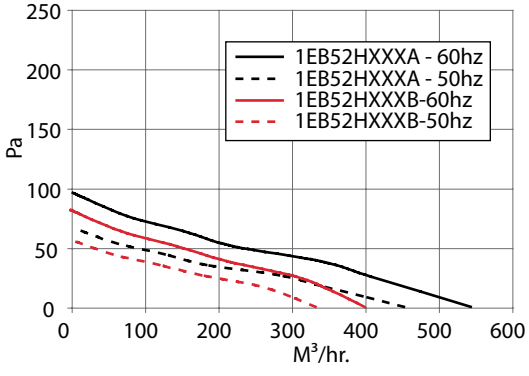


1EB52HxxxA Models



1EB Models





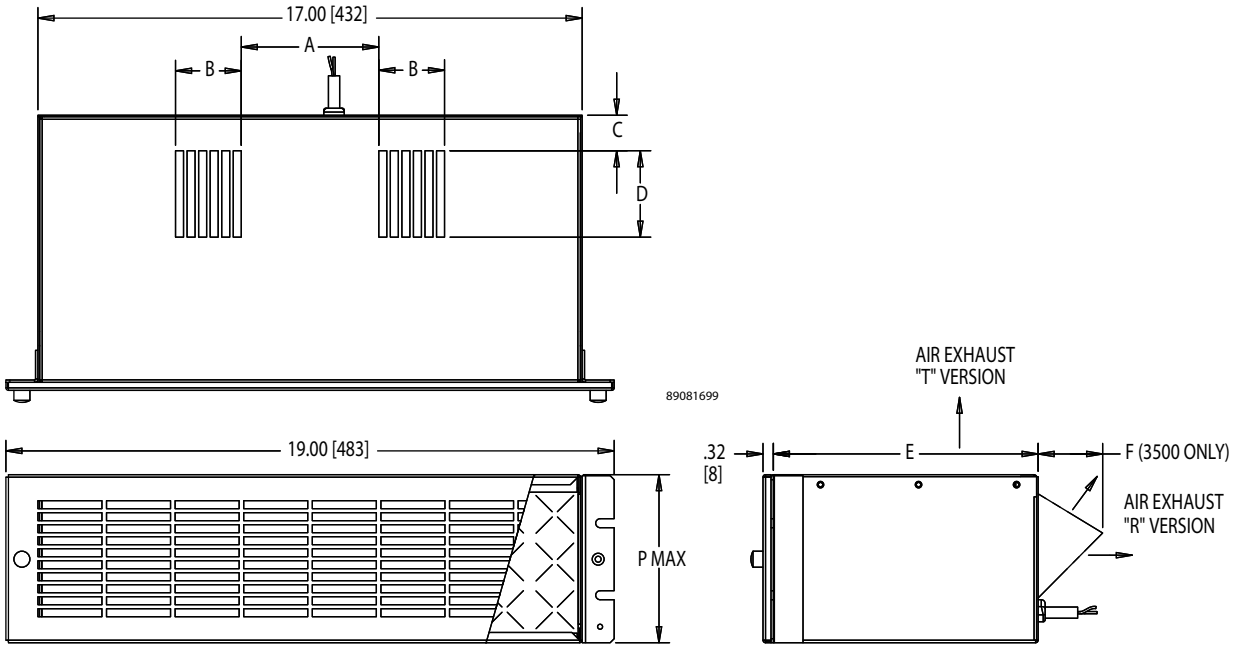
Performance Data **2EB Models**

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

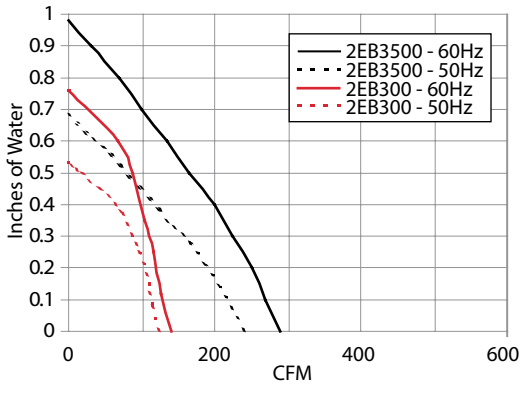
Design Data **2EB Models**

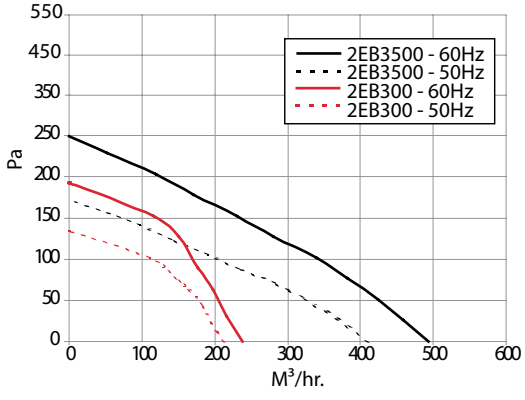
CATALOG NUMBERS	PMax in./mm	A in./mm	B in./mm	C in./mm	D in./mm	E in./mm	F in./mm
2EB300R115	5.25/133	4.30/109	2.05/52	—	—	8.22/209	—
2EB3500R115	5.25/133	4.38/111	4.56/116	—	—	7.17/182	1.75/44
2EB412R115	7.00/178	4.23/107	3.15/80	—	—	8.22/209	—
2EB512R115	8.75/222	4.13/105	3.63/92	—	—	8.22/209	—
2EB512T115	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	—

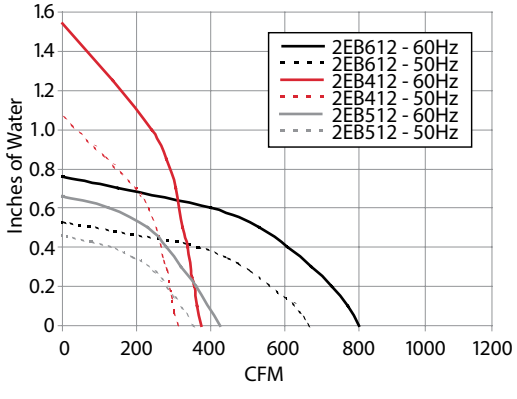
2EB Models

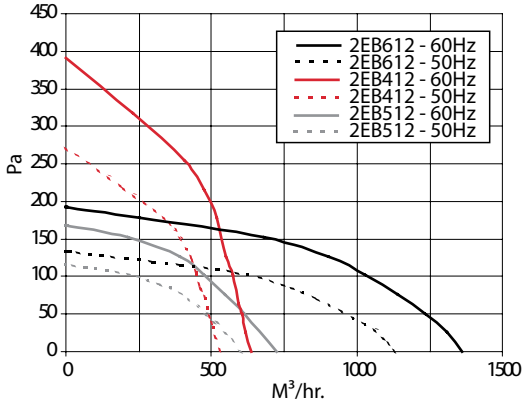


2EB Models









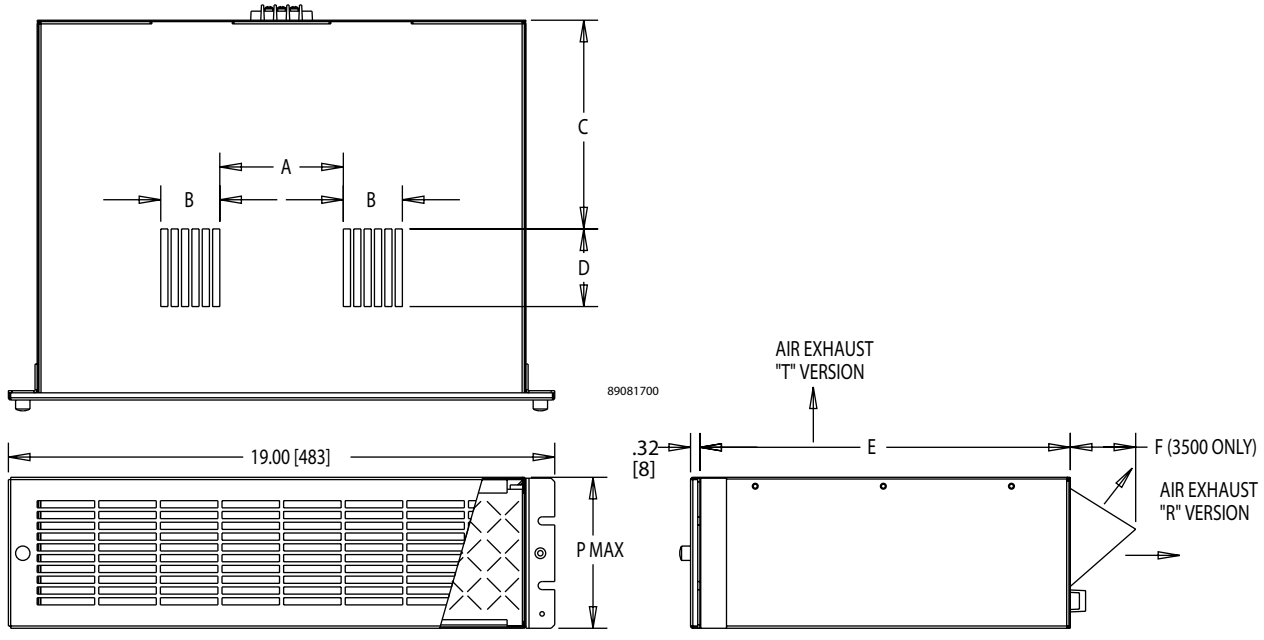
Performance Data **4EB Models**

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

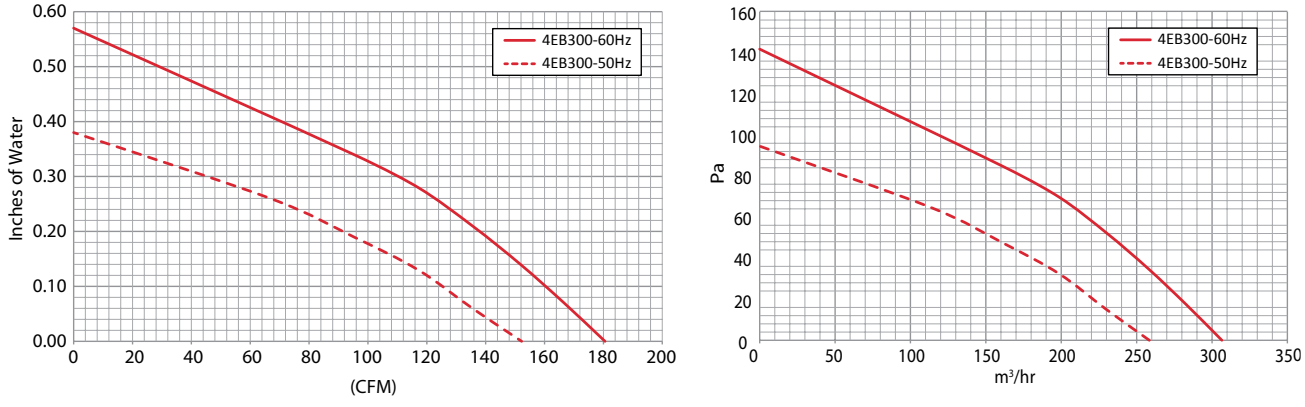
Design Data **4EB Models**

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 381
Rack-Mount Fan Speed Control, page 373
Filter Adhesive, page 391

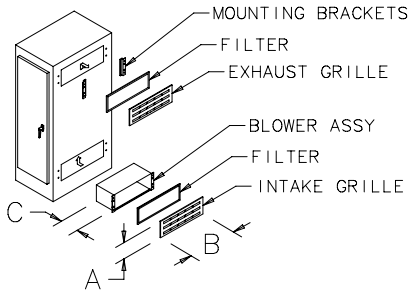
10

Performance Data **Rack-Mountable Fan Package**

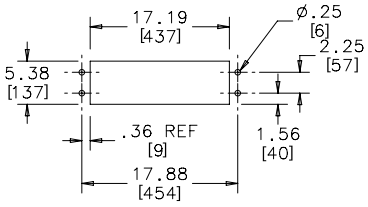
CATALOG NUMBERS	
	ADB275
ELECTRICAL DATA	
Rated Voltage	**115**
Frequency	50/60
Free Airflow (CFM)	230/275
RPM	2580/3100
Nominal Current Maximum (Amps)	1.2
Power Consumption (Watts)	84
SOUND LEVEL	
Sound Pressure (dBA)	56
UNIT CONSTRUCTION	
Weight (lb./kg)	15/7
EXHAUST GRILLE CATALOG NUMBERS	
Catalog Number	AEXGR275

Rack-Mountable Fan Package

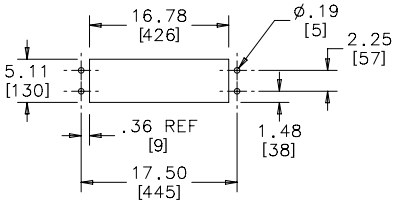
Mounting Cutout Dimensions



Blower Cutout



Exhaust Grille Cutout



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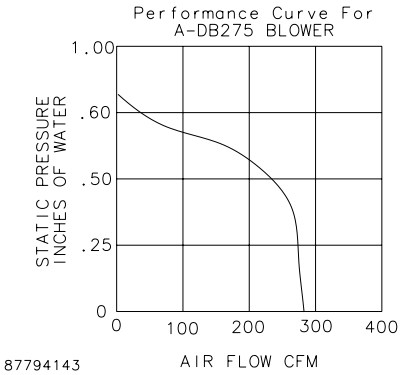

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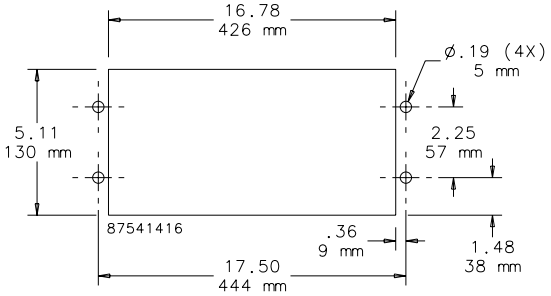
EXHAUST GRILLES AND REPLACEMENT FILTERS



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

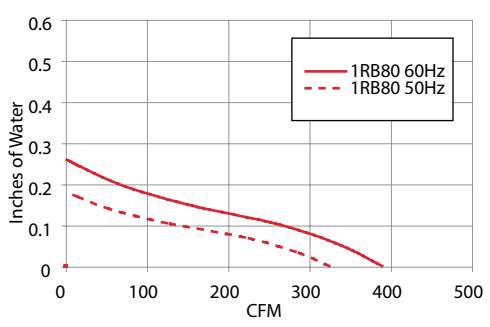
SPECIFICATIONS

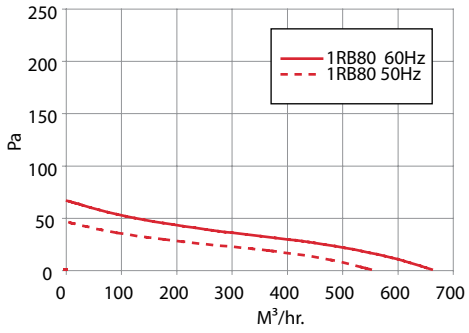
- 115 VAC
- 50/60Hz

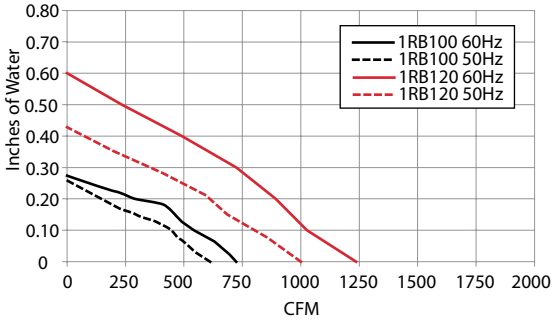
Performance Data **Filter Box Fans**

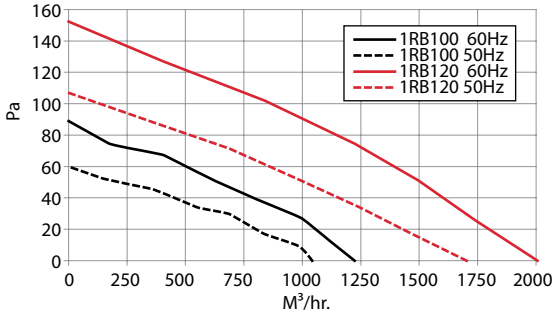
ELECTRICAL DATA		
Rated Voltage	**115**	**115**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
1RB80 Models		
Catalog Numbers	**1RB80**	**1RB80M**
Free Airflow (CFM/M^3/hr.)	390/699	390/699
RPM	1600	1600
Nominal Run Current Maximum (Amps)	1.1	1.1
Nominal Start Current 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

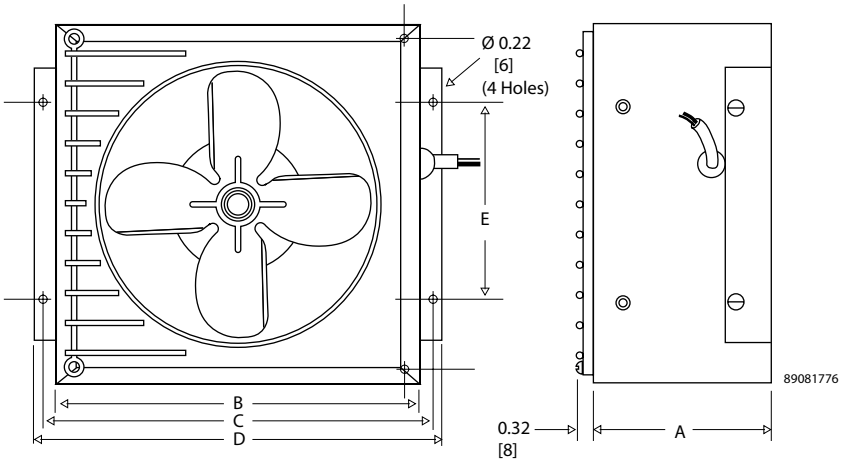
Performance Curves Filter Box











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

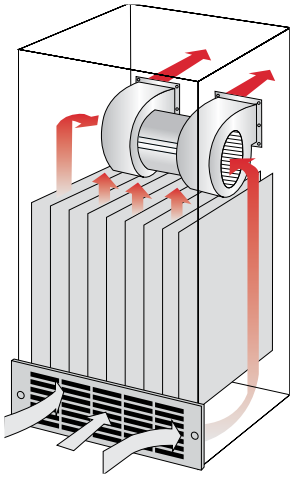
UL Recognized

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

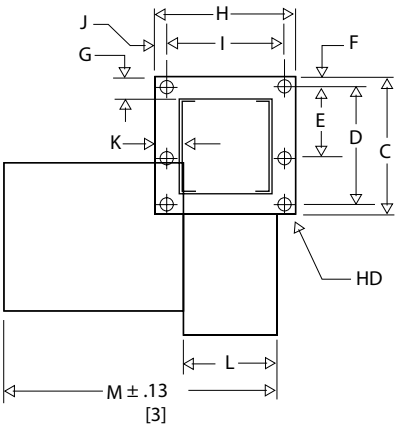
Performance Data **1NB Models**

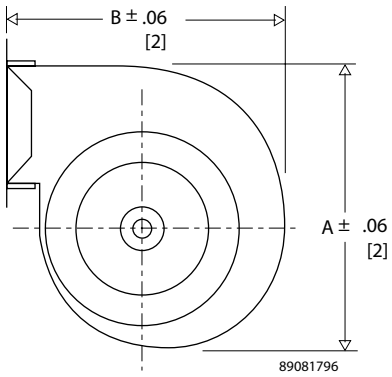
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
1NB412 Models		
Catalog Numbers	**1NB412115**	**1NB412230**
Free Airflow (CFM/M^3/hr.)	200/340	200/340
RPM	3100	3100
Nominal Run Current Maximum (Amps)	1.2	0.6
Nominal Start 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**

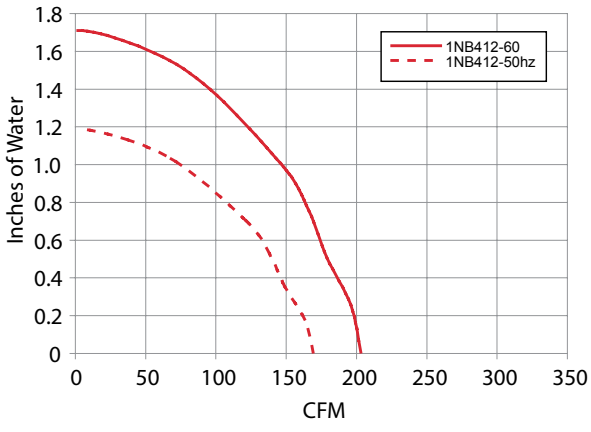
CATALOG NUMBERS	A in./mm	B in./mm	C in./mm	D in./mm	F in./mm	G in./mm	H in./mm	I in./mm	J in./mm	K in./mm	L in./mm	M in./mm	HD in./mm
1NB412115	6.81/173	6.14/156	3.84/96	3.29/84	0.31/8	0.62/16	4.66/118	4.03/102	0.31/8	0.72/18	3.22/82	7.47/190	0.28/7
1NB412230	6.81/173	6.14/156	3.84/96	3.29/84	0.31/8	0.62/16	4.66/118	4.03/102	0.31/8	0.72/18	3.22/82	7.47/190	0.28/7

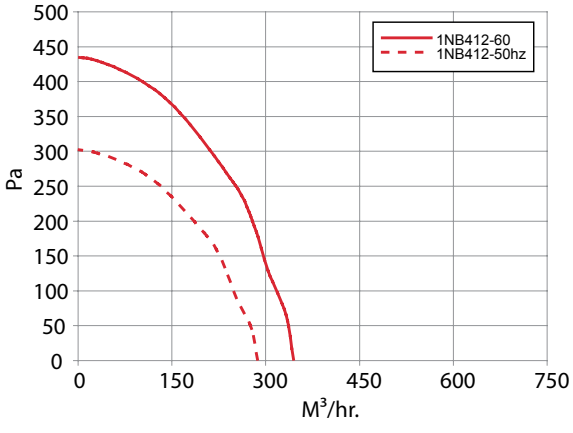
1NB Models





Performance Curves 1NB Models





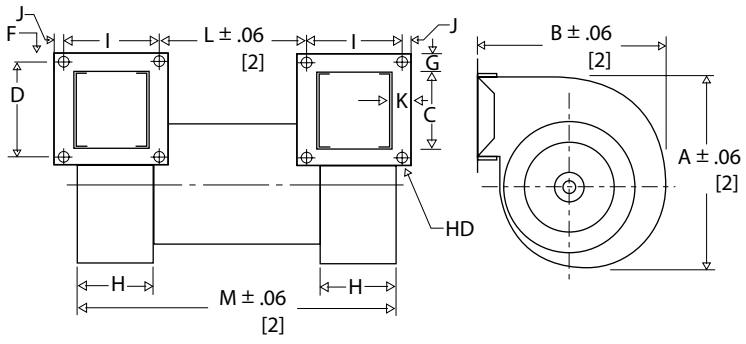
Performance Data **2NB Models**

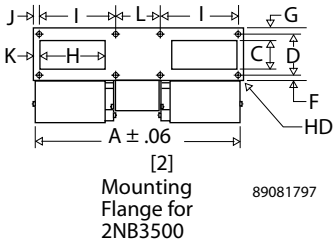
ELECTRICAL DATA		
Rated Voltage	**115**	**230**
Frequency (Hz)	50/60	50/60
Maximum Operating Temperature (°F/°C)	104/40	104/40
2NB300 Models		
Catalog Numbers	**2NB300115**	**2NB300230**
Free Airflow (CFM/M^3/hr.)	130/221	130/221
RPM	2900	2900
Nominal Run Current Maximum (Amps)	0.9	0.5
Nominal Start 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**

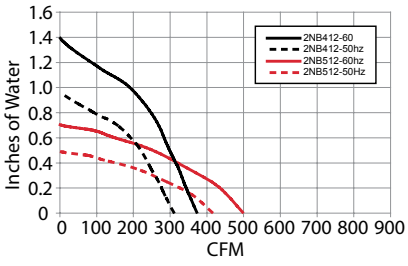
CATALOG NUMBERS	A in/mm	B in/mm	C in/mm	D in/mm	F in/mm	G in/mm	H in/mm	I in/mm	J in/mm	K in/mm	L in/mm	M in/mm	HD in/mm
2NB300XXX	5.19/132	5.25/133	2.19/56	2.50/64	.28/7	.43/11	2.13/54	2.63/67	.22/6	.42/11	3.87/98	8.69/221	.25/6
2NB3500XXX	5.57/141	5.07/129	2.00/51	2.75/70	.38/10	.78/20	4.37/111	5.25/133	.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

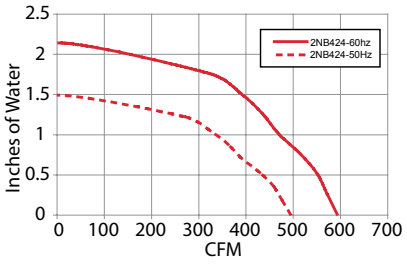
2NB Models

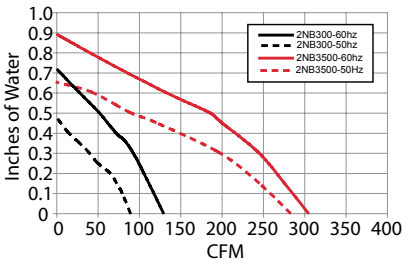


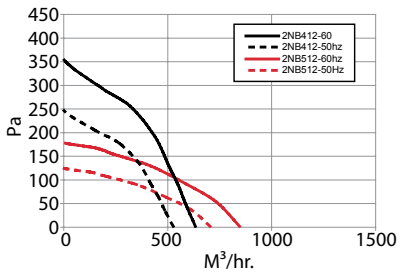


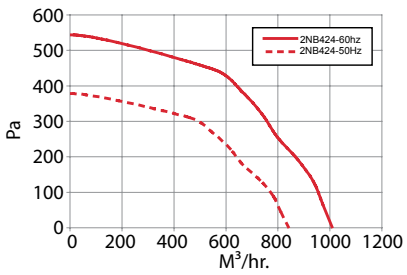
Performance Curves 2NB Models

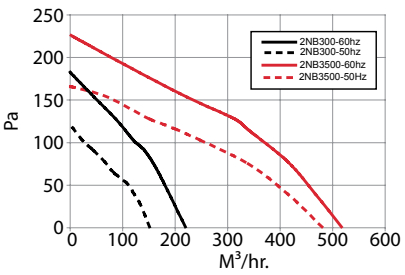












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FILTER GRILLE PANEL

APPLICATION

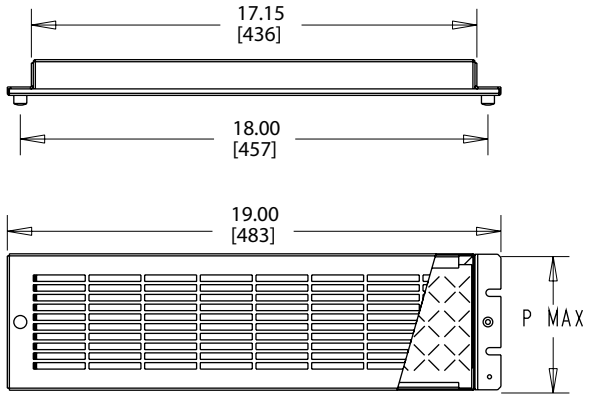
Filter Grille Panels add valuable ventilation to a rack for either inlet or exhaust air. Used alone, filter grille panels allow adequate air flow on natural convection applications or in conjunction with an air moving device to provide filtered air intake.

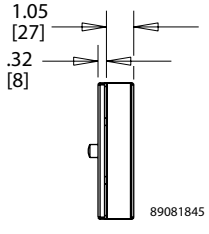
FEATURES

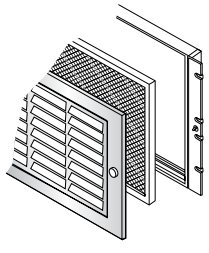
- Permanent, Washable Aluminum Filter
- 19-inch Rack Mountable
- Brushed Aluminum or Stainless Steel Grilles

Performance Data **Filter Grille Panel**

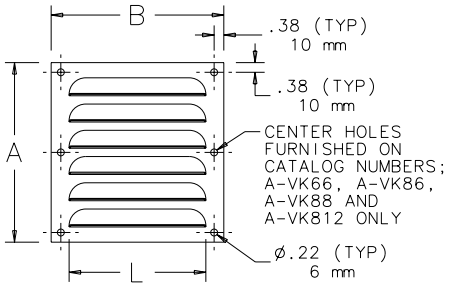
CATALOG NUMBERS					
Stainless Steel	35G19	—	7G19	875G19	105G19
Aluminum	35H19	525H19	7H19	875H19	105H19
UNIT CONSTRUCTION					
Height PMax (in./mm)	3.5/89	5.25/133	7.00/178	8.75/222	10.50/267
Width (in./mm)	19/483	19/483	19/483	19/483	19/483
Weight (lb./kg)	2/1.0	3/1.4	5/2.2	5/2.2	5/2.2



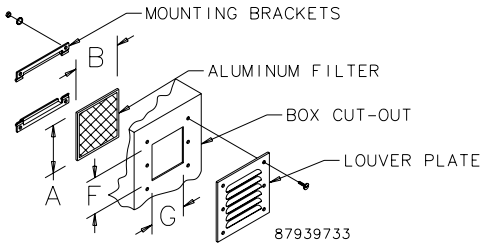




LOUVER PLATE KITS



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.

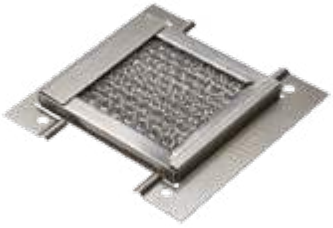


Design Data **Louver Plate Kits**

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.

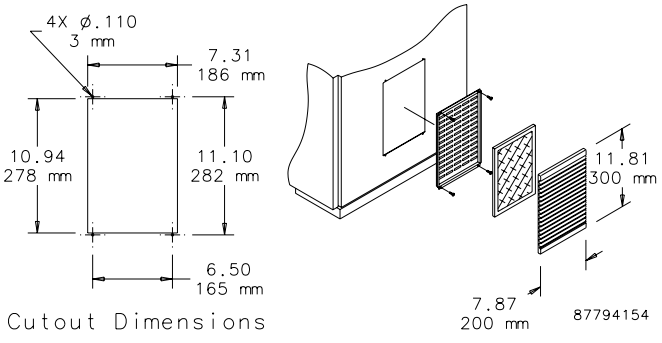
Filter Media
Filter media is composed of layers of slit and expanded aluminum providing hundreds of adhesive coated baffle surfaces for trapping impurities. Impurities are held throughout the depth of the filter. Washing with warm water will keep the filter clean. To achieve best results, Filter Adhesive 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

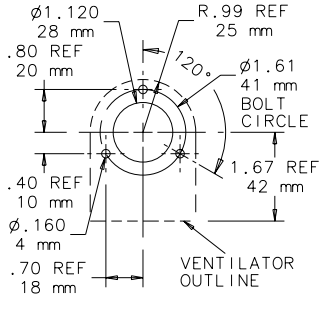


Cutout Dimensions

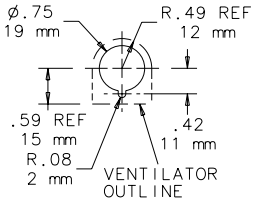
VENTILATOR

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

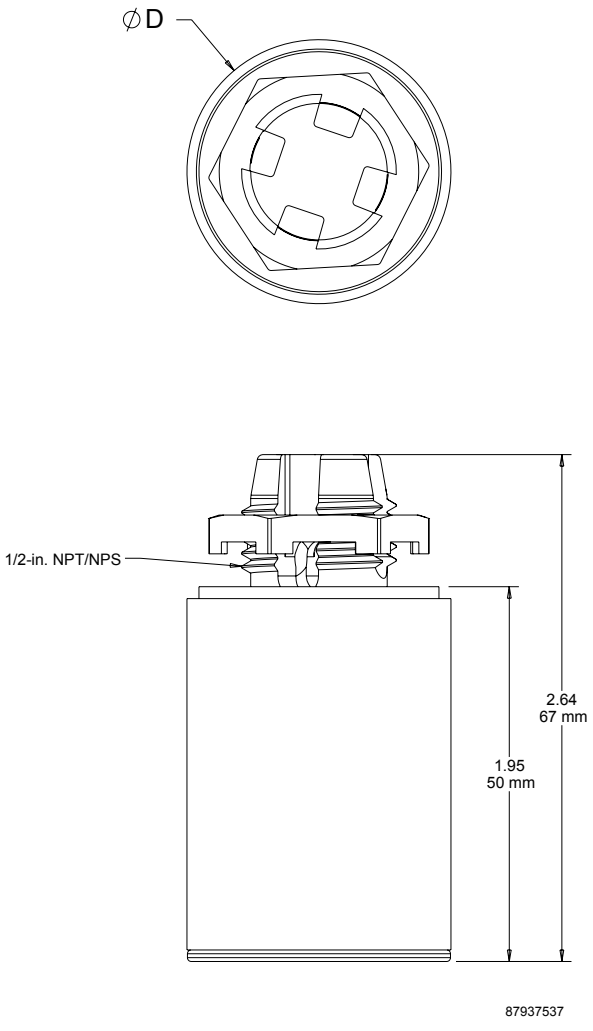
Non-Metallic Drain Vent

- 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**

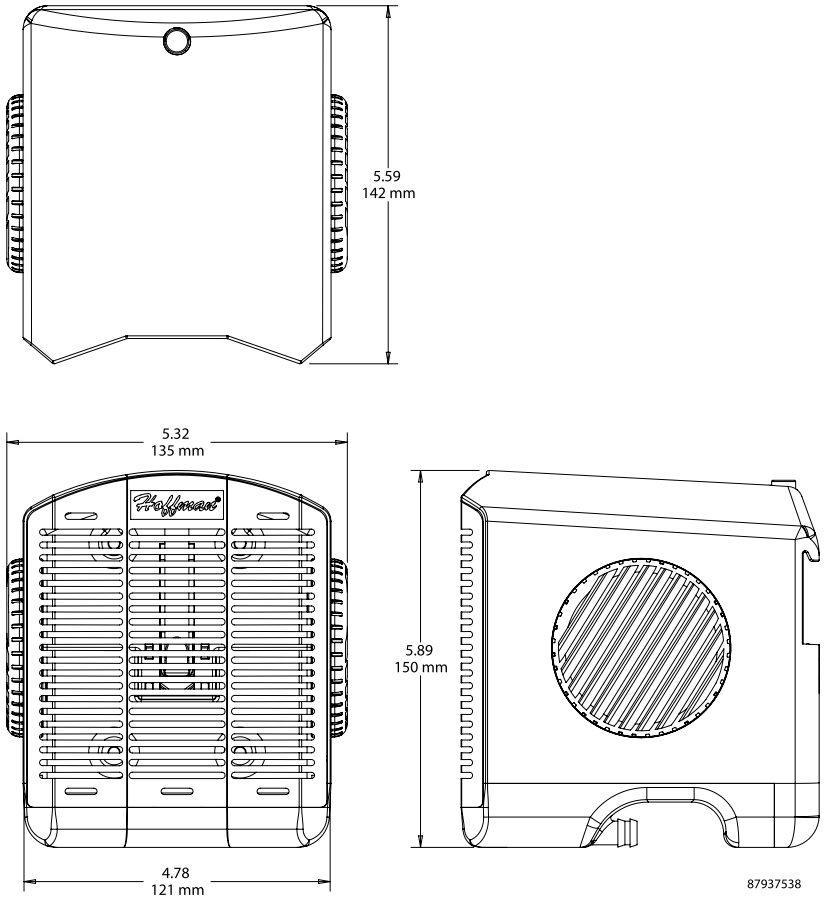
CATALOG NUMBERS

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.



nVent | HOFFMAN

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)

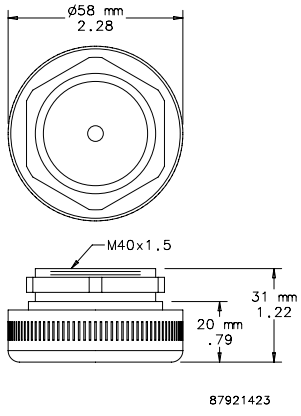
SPECIFICATIONS

- 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

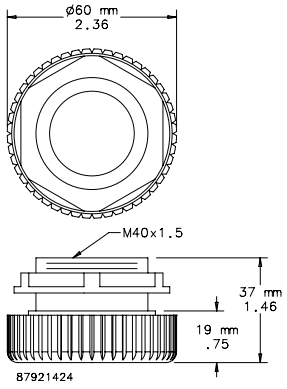
- Semipermeable membrane inside the plug to filter moisture and dust
- Mounting thread M40 with union nut
- Plastic PA66

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

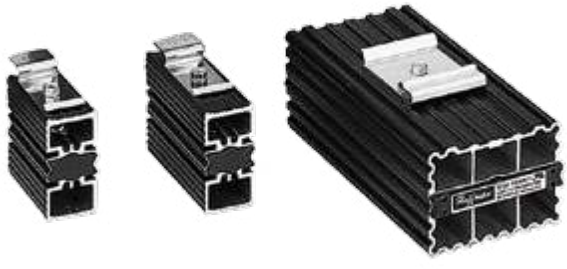
FINISH

- 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

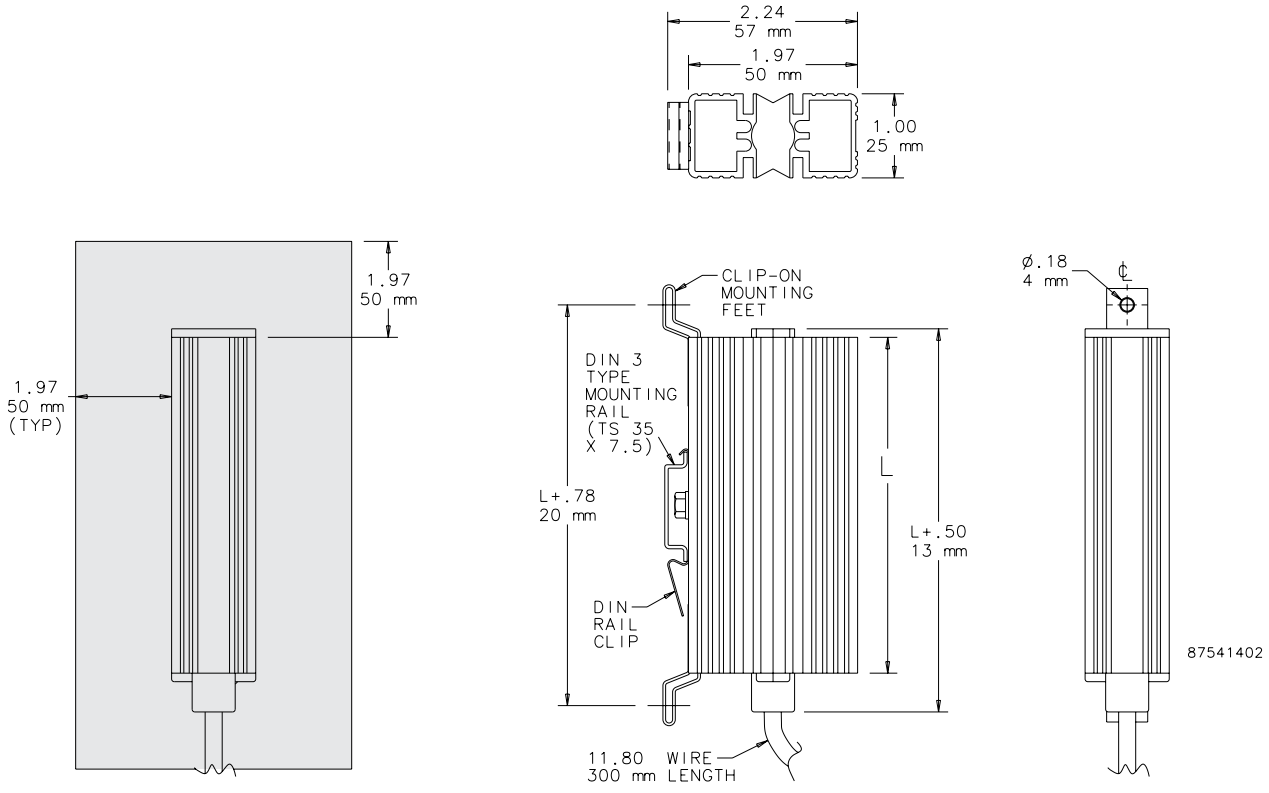
FINISH

- Black anodized, extruded aluminum.

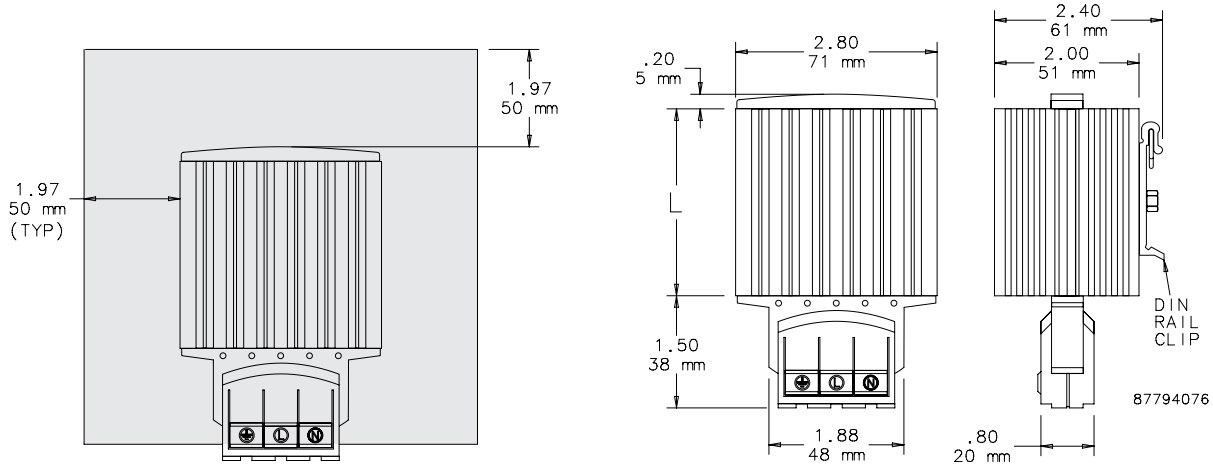
Performance Data **Semiconductor Heater**

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



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

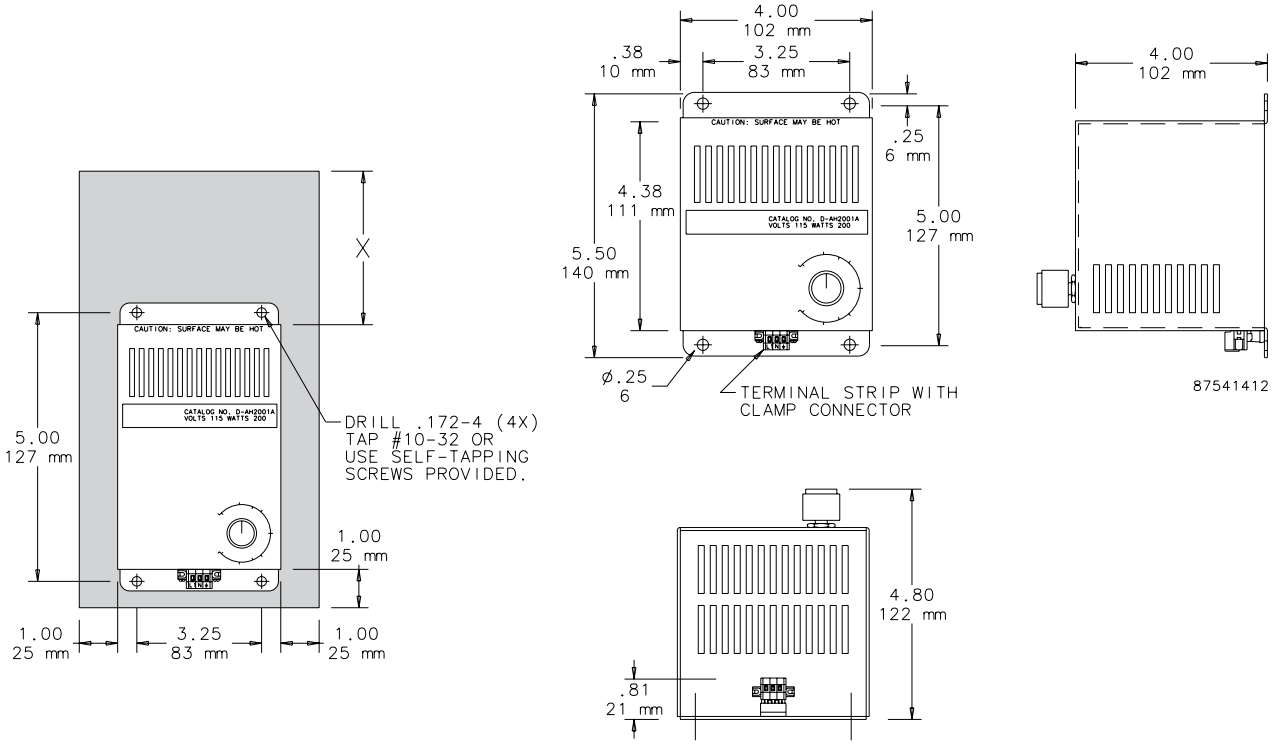
Performance Data **400 and 800 Watt Heaters**

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

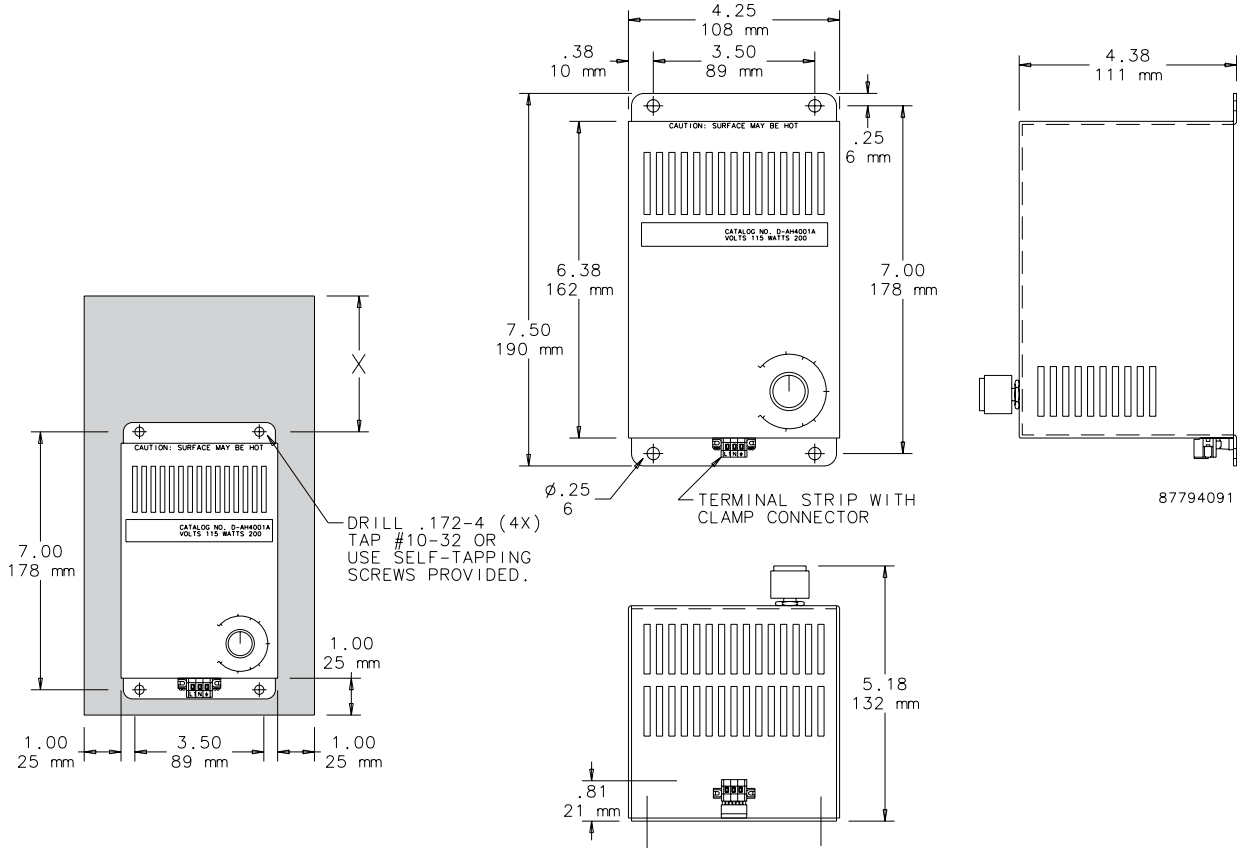
Performance Data **1300 Watt Heaters**

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

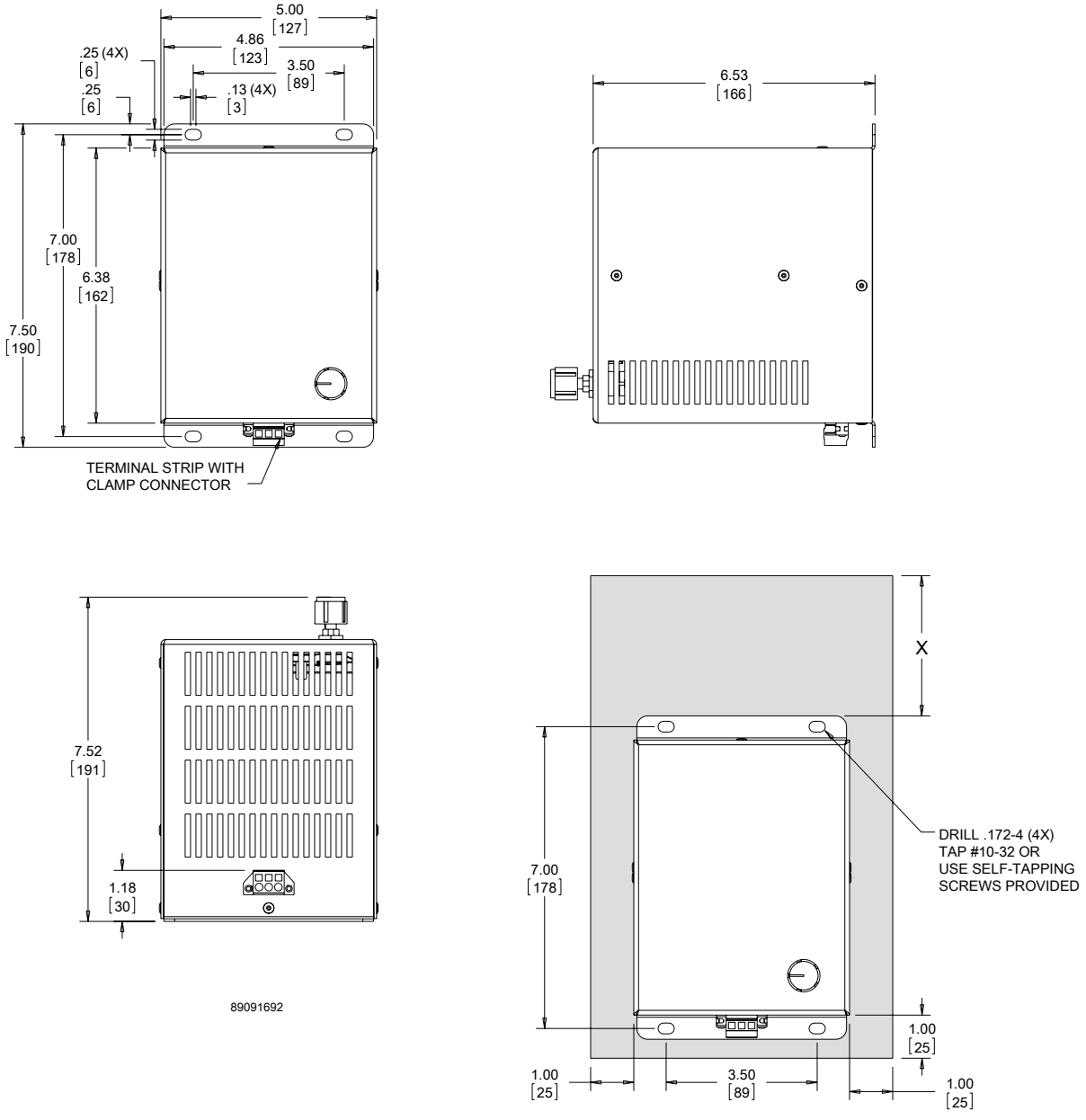
Dimensions and Clearance Range Drawing for DAH1001A, -2A and DAH2001A, -2A



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

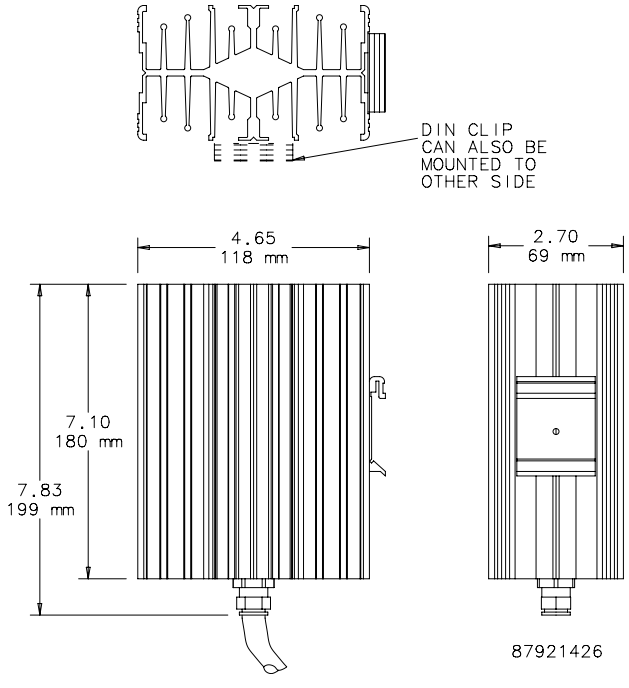
FINISH

- 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

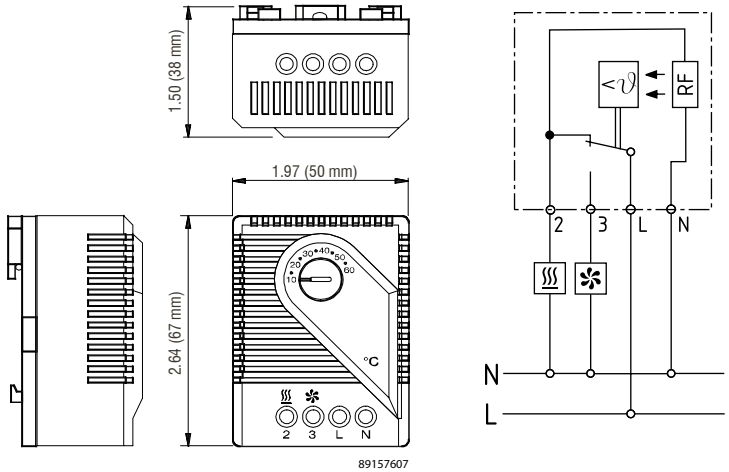
cURus; File No. E164102

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

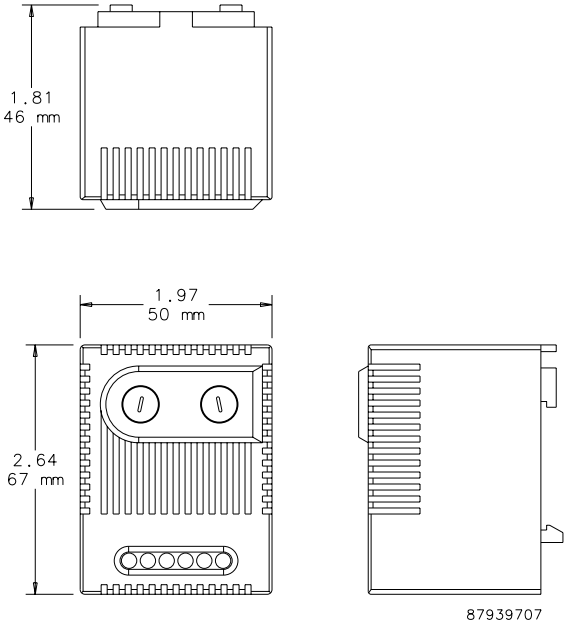
- Two thermostats; one normally closed (NC), red, and one normally open (NO), blue, in one casing
- Wide adjustable temperature range (32 -140 F)
- Thermostatic bimetallic sensor element
- Connection: 4-pole terminal for AWG 14 max (2.5 mm^2)
- Mounting clip for 35-mm DIN rail

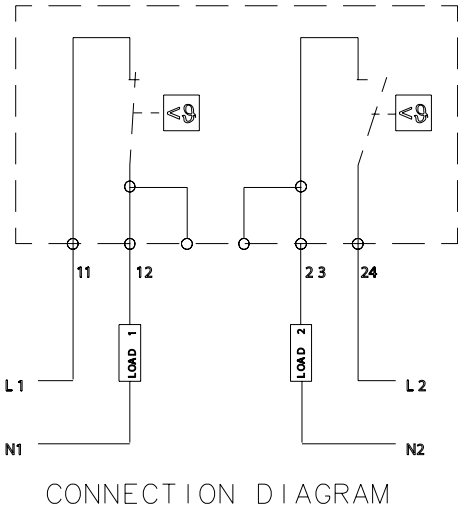
FINISH

- 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

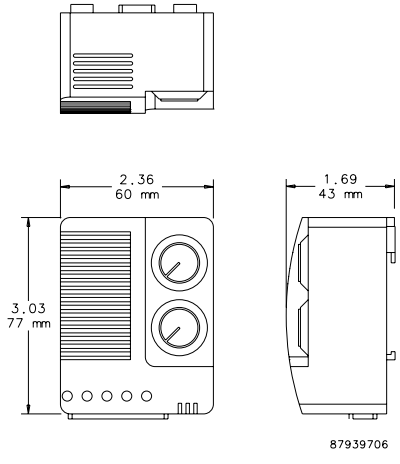
INDUSTRY STANDARDS

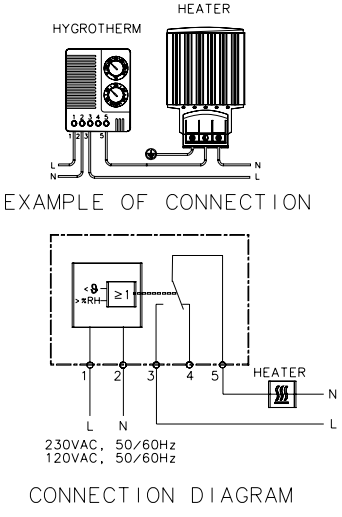
cURus; File No. E164102

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

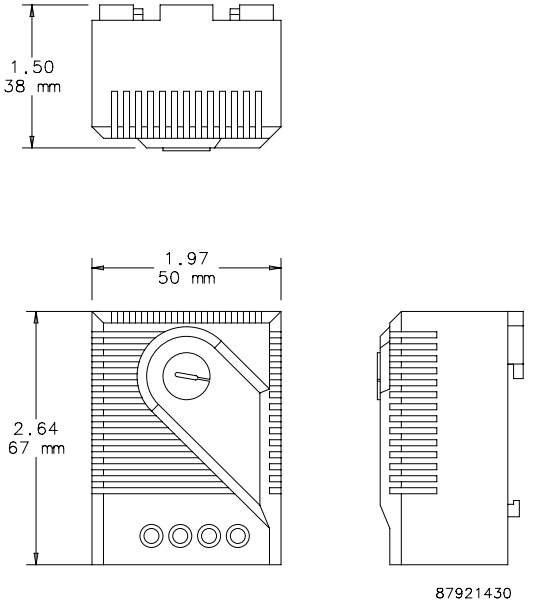
- Adjustable relative humidity range
- High switching capacity
- Long service life (>100,000 cycles)
- Maximum permissible air velocity of 50 ft./sec. (15 m/s)
- Maximum switching voltage = 250 VAC
  250 V should be switched only in a non-condensing environment
- Change-over contact
- Mounting clip for 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



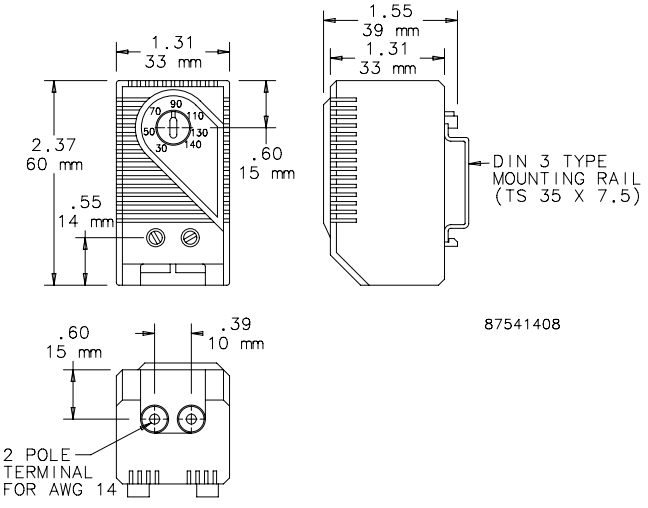
TEMPERATURE CONTROL SWITCH

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

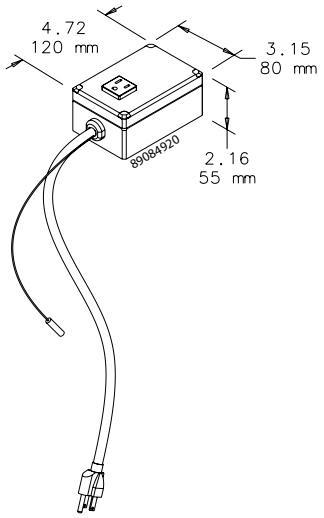
- AFANTSC: Light-gray polycarbonate control housing

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

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

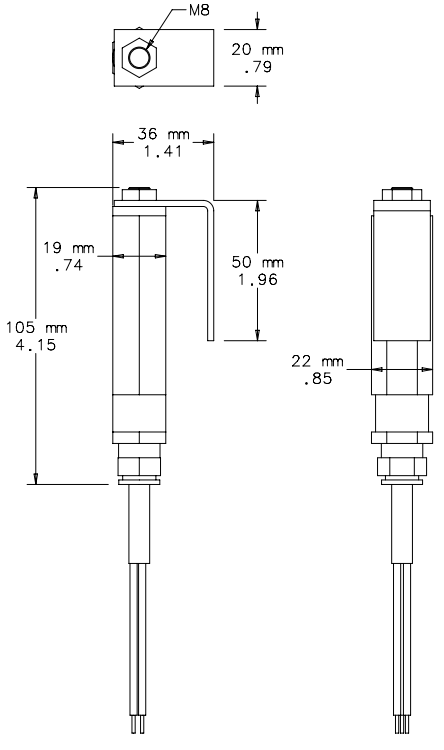
INDUSTRY STANDARDS

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)

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 12
ACCESSORIES

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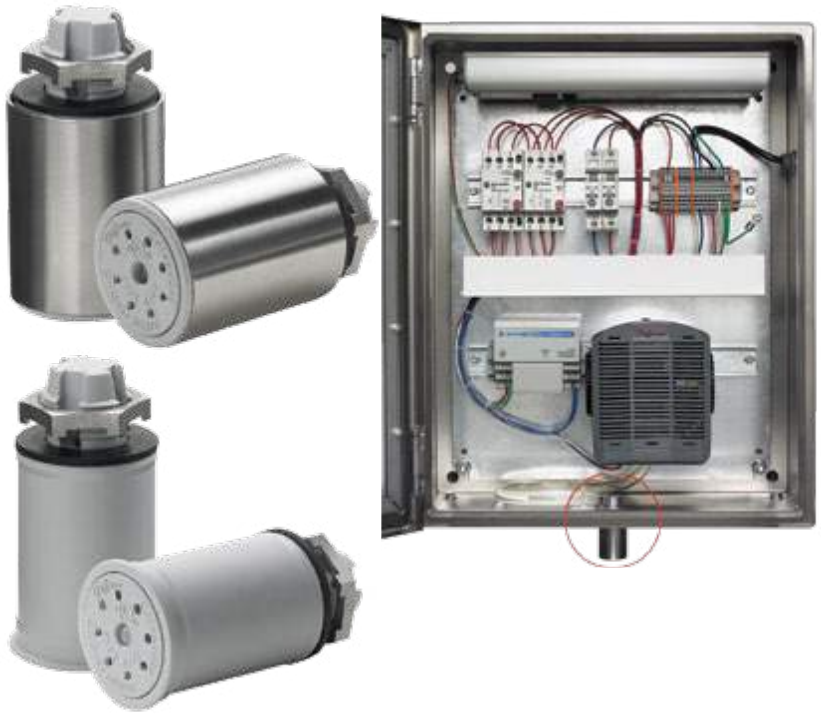
H2OMIT VENT DRAINS, TYPE 4X



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

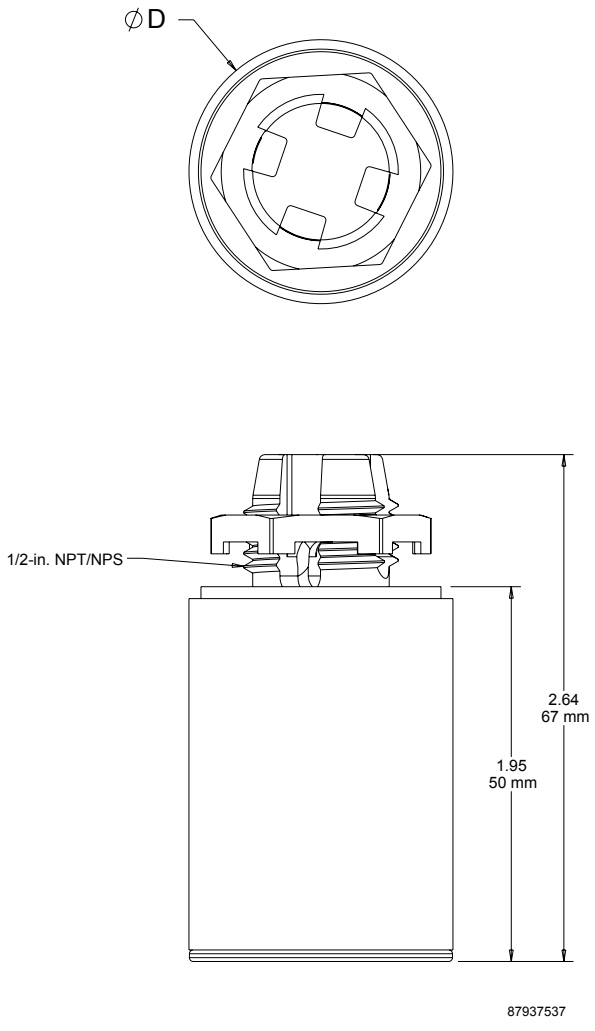
- Corrosion-resistant polyester material
- 2.00-in. long x 1.25-in. outside diameter

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

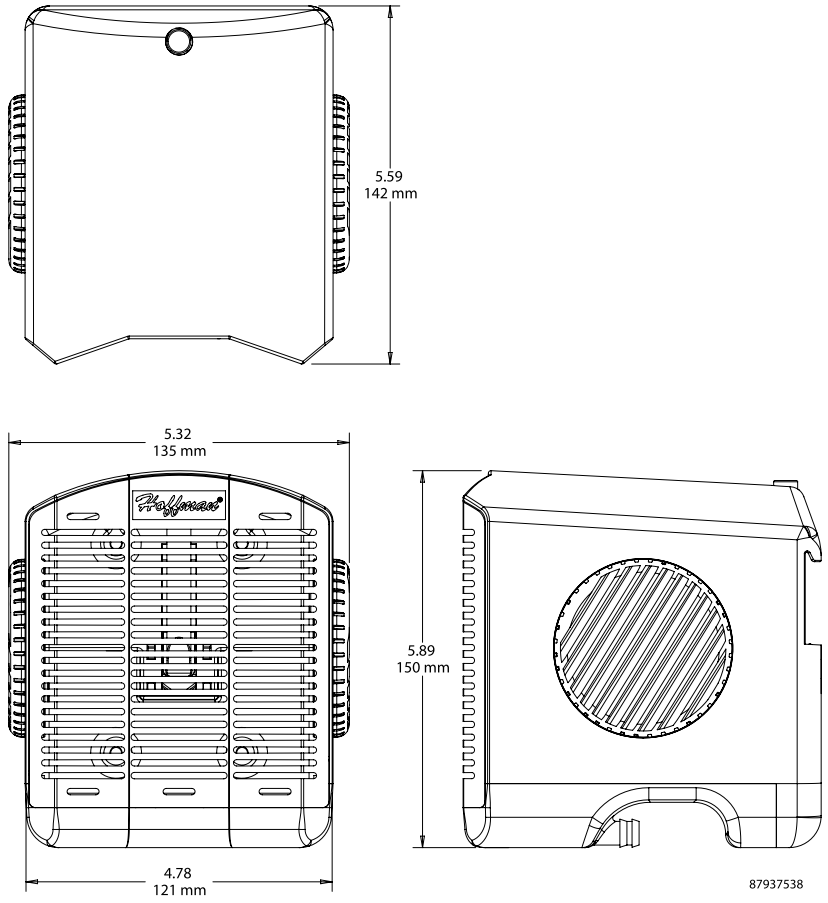
Must be used with UL-certified drain to remove pooled liquid from enclosure.
[a]If continual operation is not desired, a Mechanical Hygrostat (AMHUM) can be wired to the thermoelectric dehumidifier and then set to turn the dehumidifier on at the desired relative humidity.

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

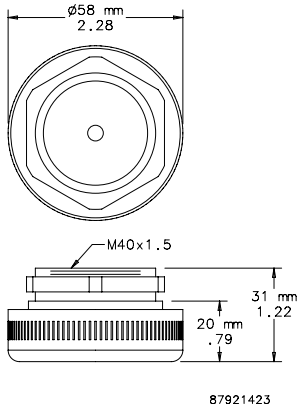
Machined Type 316L stainless steel

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

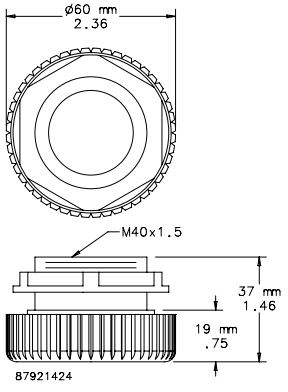
Light-gray plastic. Polymeric material manufactured by DuPont™.
DuPont is the trademark of E. I. duPont de Nemours and Company.

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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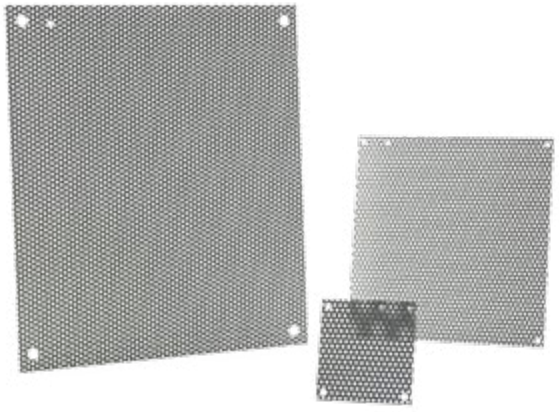
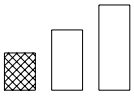
PERFORATED PANELS

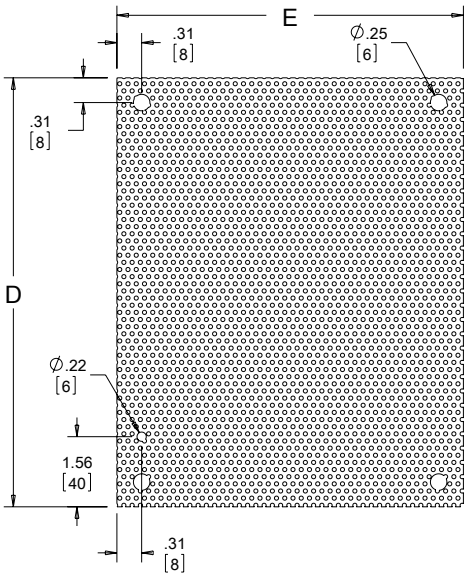


Perforated panels are 16 gauge steel and accept self-tapping screws and eliminate the need to measure, mark and drill when mounting components. Use for mounting lightweight control components.

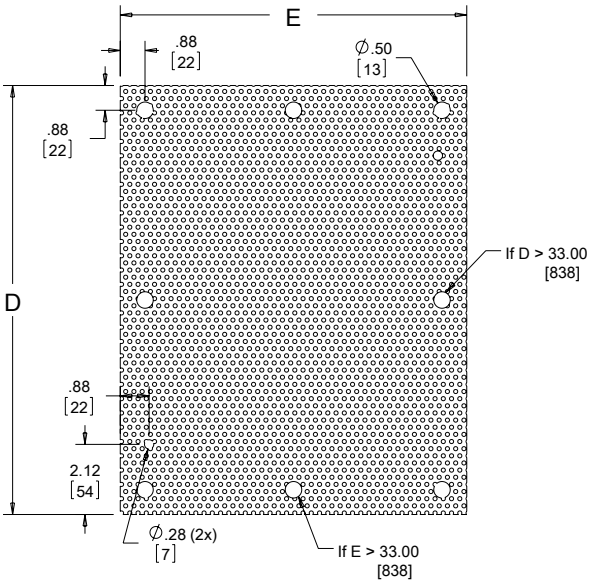
BULLETIN: PNLP

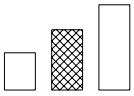
Catalog Number	Use in	Panel Size D x E (in.)	Panel Size D x E (mm)
A6N6PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	4.25 x 4.25	108 x 108
A8N6PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	6.25 x 4.25	159 x 108
A8N8PP	Small Type 1 Panel Enclosures and Small Type 3R Boxes	6.25 x 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



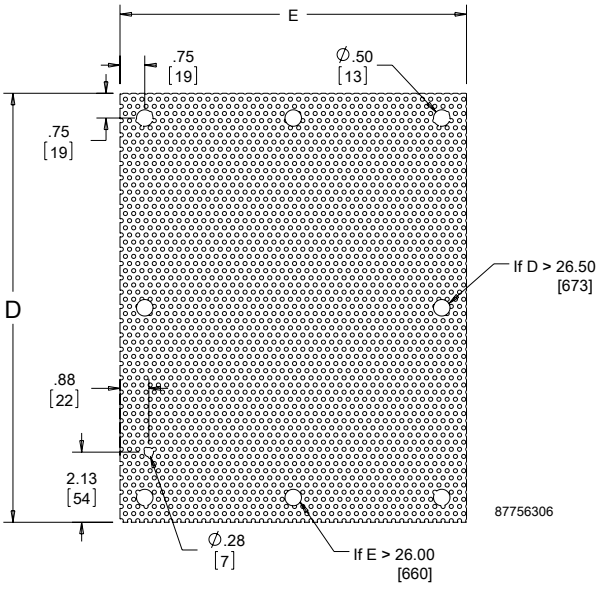


Type 3R





Type 1



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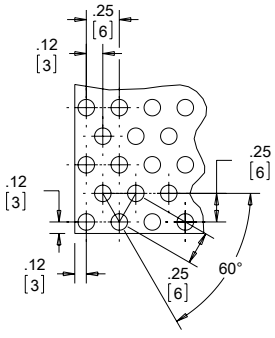

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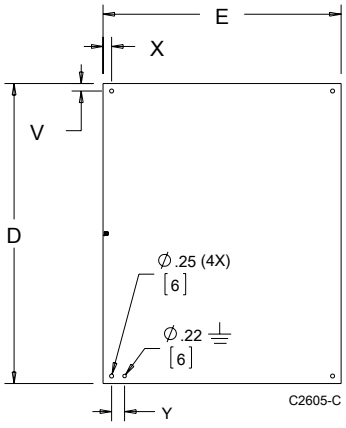
PANELS FOR JUNCTION BOXES

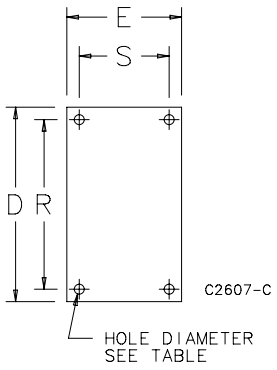
BULLETIN: PNLJ, PNLWM



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.

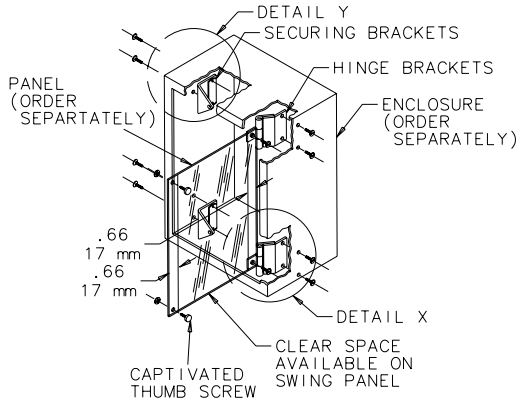
BULLETIN: A80

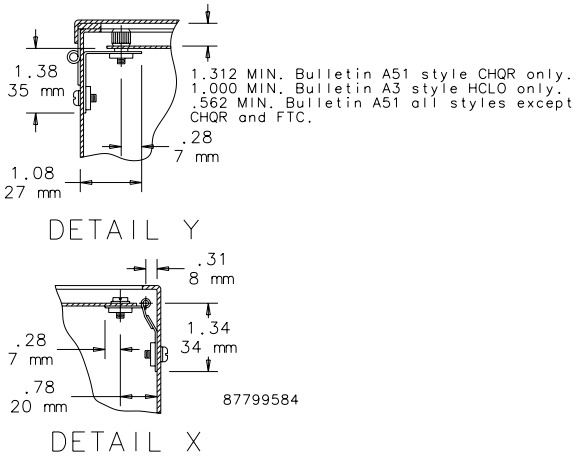
Catalog Number	Description	Maximum Load (lb.)	Maximum Load (kg)	Use In
AJCDFK	Junction Box Kit	25	11.3	- Junction boxes where A x B is 8.00 x 6.00 in. (203 x 152 mm) or larger - HCLO Type 3R enclosures where A x B is 16.00 x 12.00 in. (406 x 305 mm) or smaller
ANADFK	Wall-Mount Enclosure Kit	100	45.4	- 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.

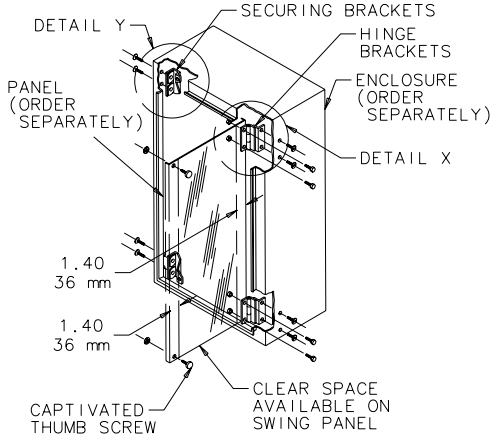
Maximum load includes the weight of the panel plus the weight of the components, with the weight of the components spread evenly over the panel.

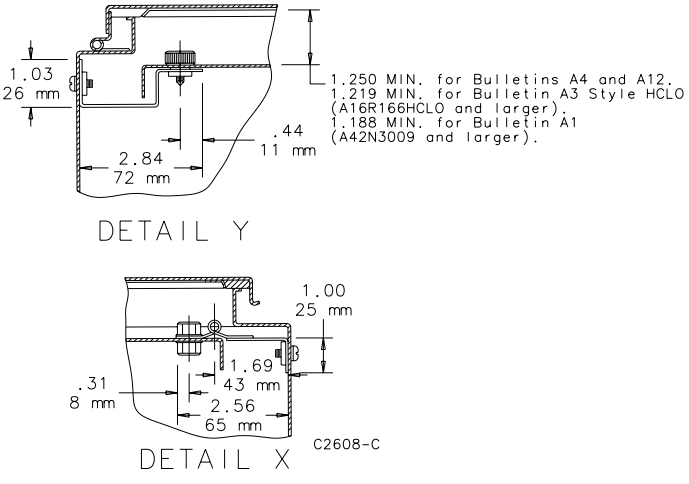
Junction Box Swing-Out Panel Kit



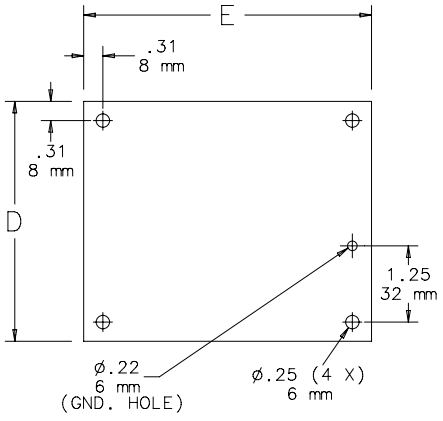


Wall-Mount Enclosure Swing-Out Panel Kit





PANELS FOR TYPE 1 ENCLOSURES AND SMALL TYPE 3R ENCLOSURES



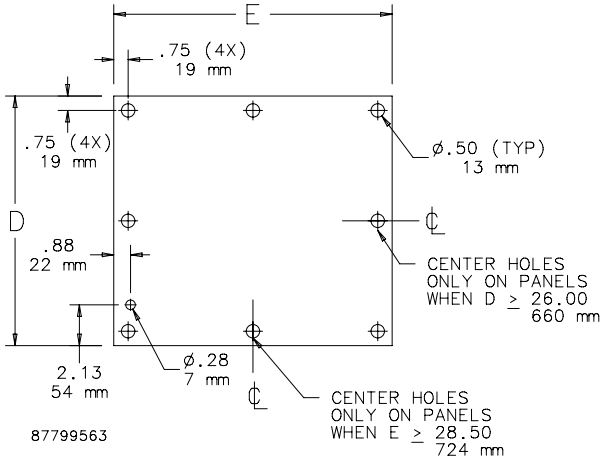
C2646-C

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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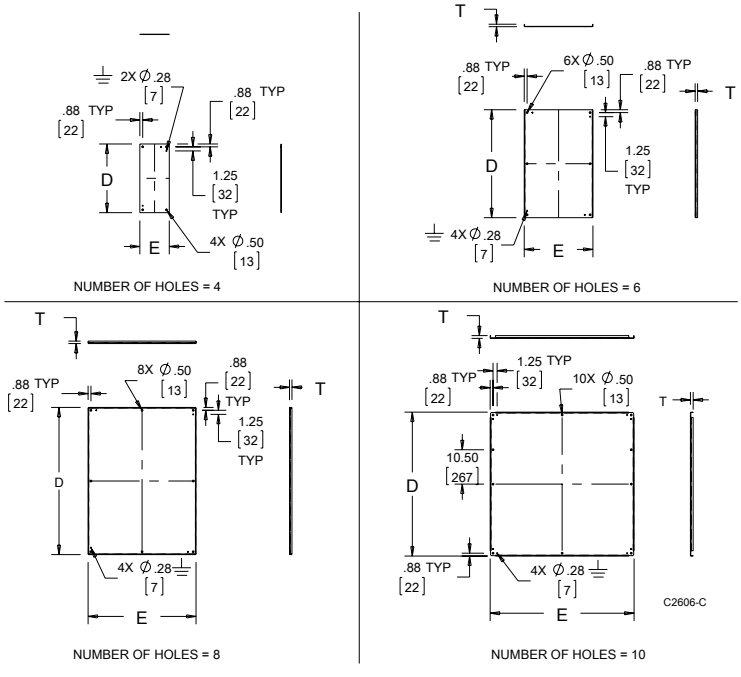
PANELS FOR TYPE 3R, 4, 4X, 12 AND 13 ENCLOSURES

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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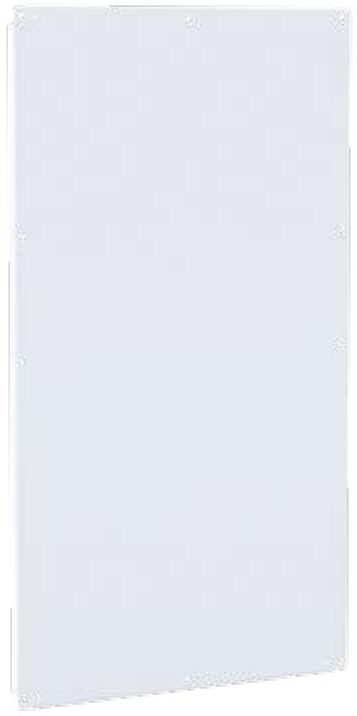
PANELS FOR FREE-STAND, MULTI-DOOR ENCLOSURES (BULLETINS A27, A28, A28S4 AND A34)



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.

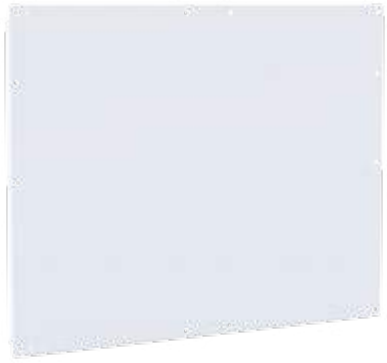
PANELS FOR FREE-STAND, TYPE 1 ONE-DOOR ENCLOSURES

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

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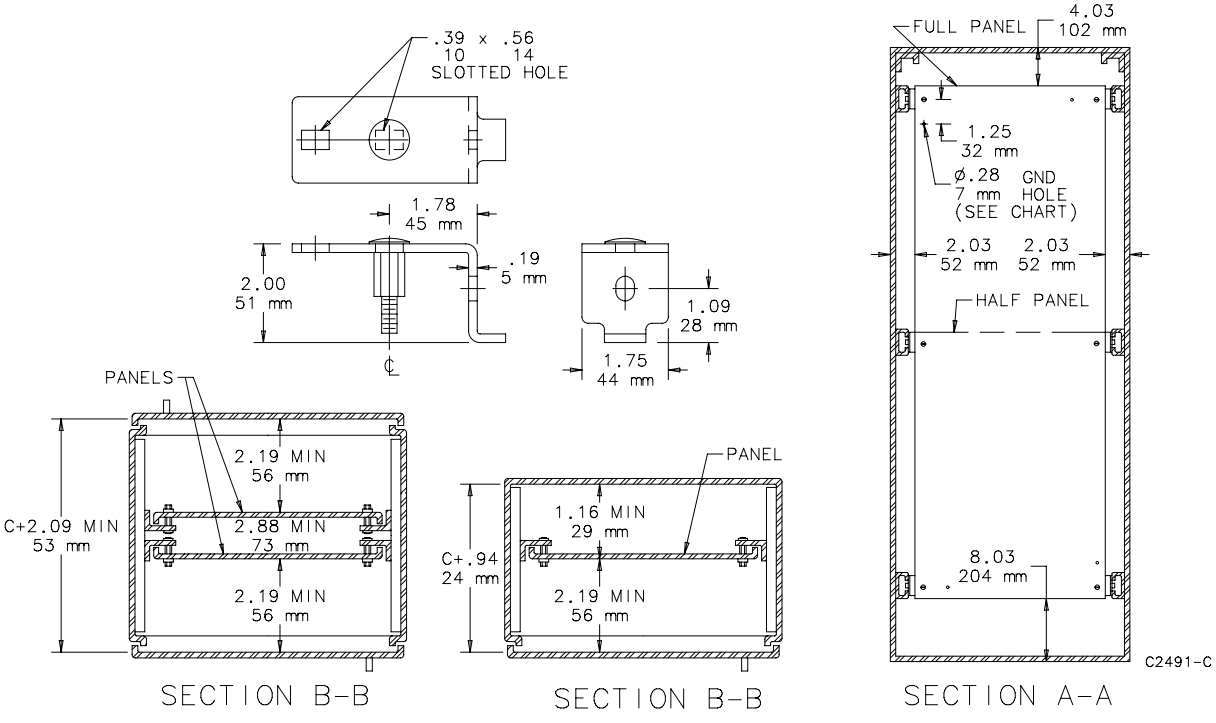
PANELS FOR FREE-STAND SINGLE- AND DUAL-ACCESS ONE-DOOR ENCLOSURES

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

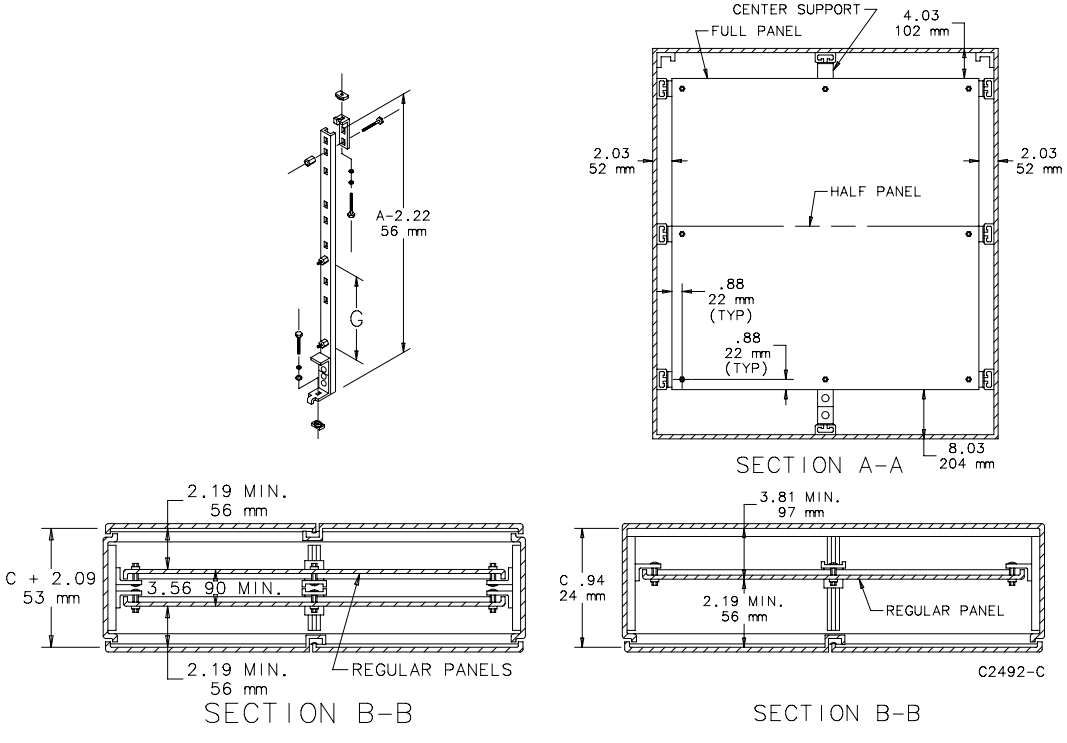
BULLETIN: PNL30

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

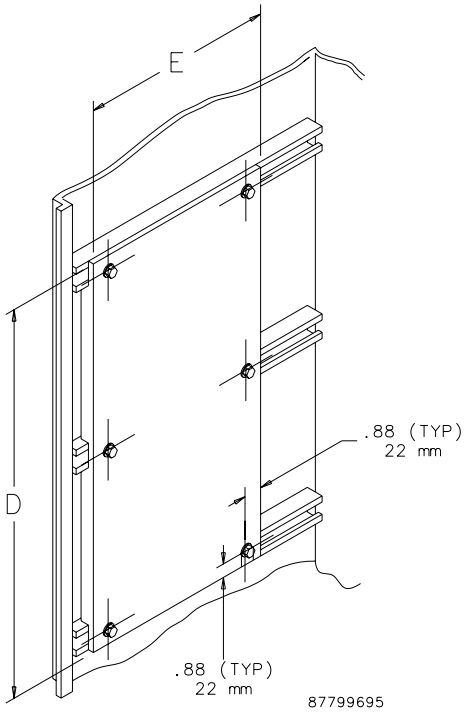
Panels provide extra mounting space on the sides of enclosures. 12 gauge steel side-mounting panels are painted white. Conductive panels are steel with a conductive, corrosion-resistant coating. Panels attach securely to mounting channels. Plated steel mounting hardware is furnished.

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.

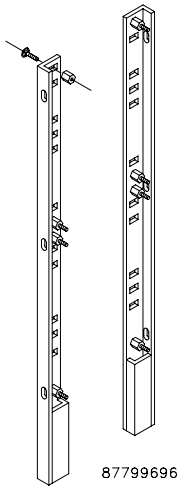


HEAVY DUTY PANEL SUPPORTS

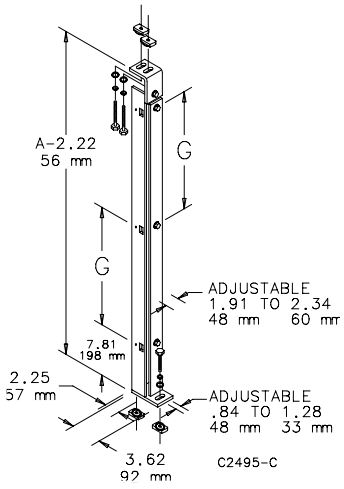
Heavy Duty Panel Supports, sold in pairs, are used in place of the panel supports furnished with panels when heavy equipment will be installed on the panels. They extend to the bottom of the enclosure. Adjustable mounting studs allow mounting of different height panels or a combination of panels. Use 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

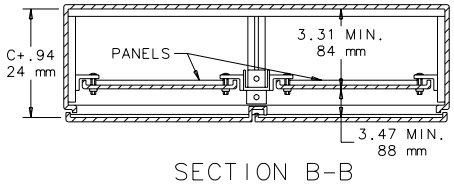
Standard Product **Panel Supports**

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

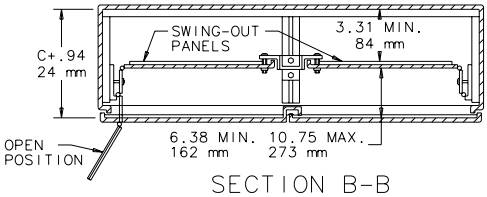
Accessory Width with Center Panel Supports

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

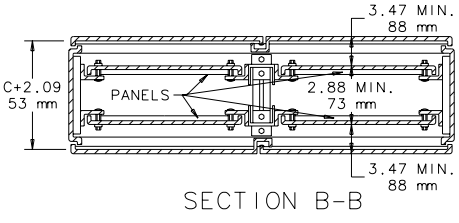
Center Panel Supports Enclosure Section Views



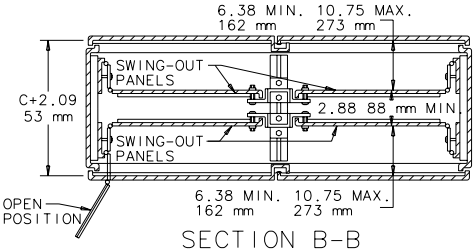
Showing two panels (for one-door enclosures)and center panel support mounted in two-door enclosure.



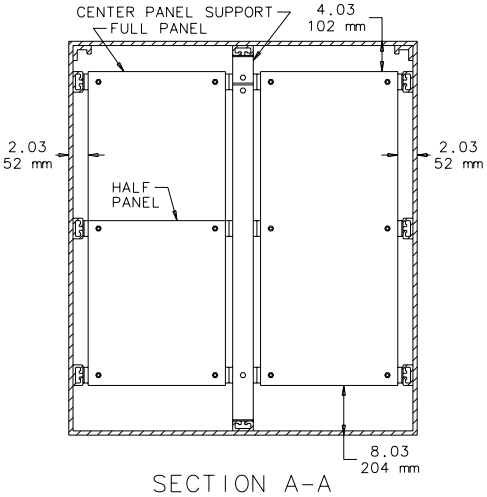
Showing four swing-out panels and center panel support mounted in two-door enclosure.



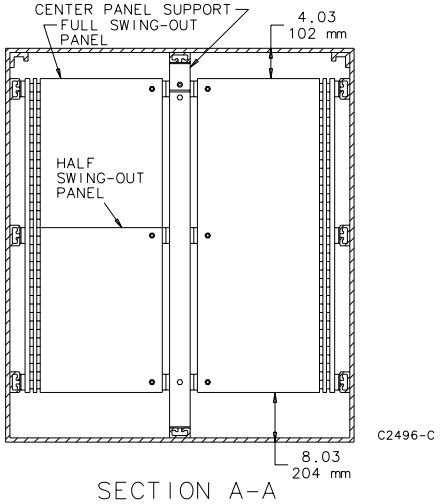
Showing four panels (for one-door enclosures) and two center panel supports mounted in two-door access enclosure.



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.



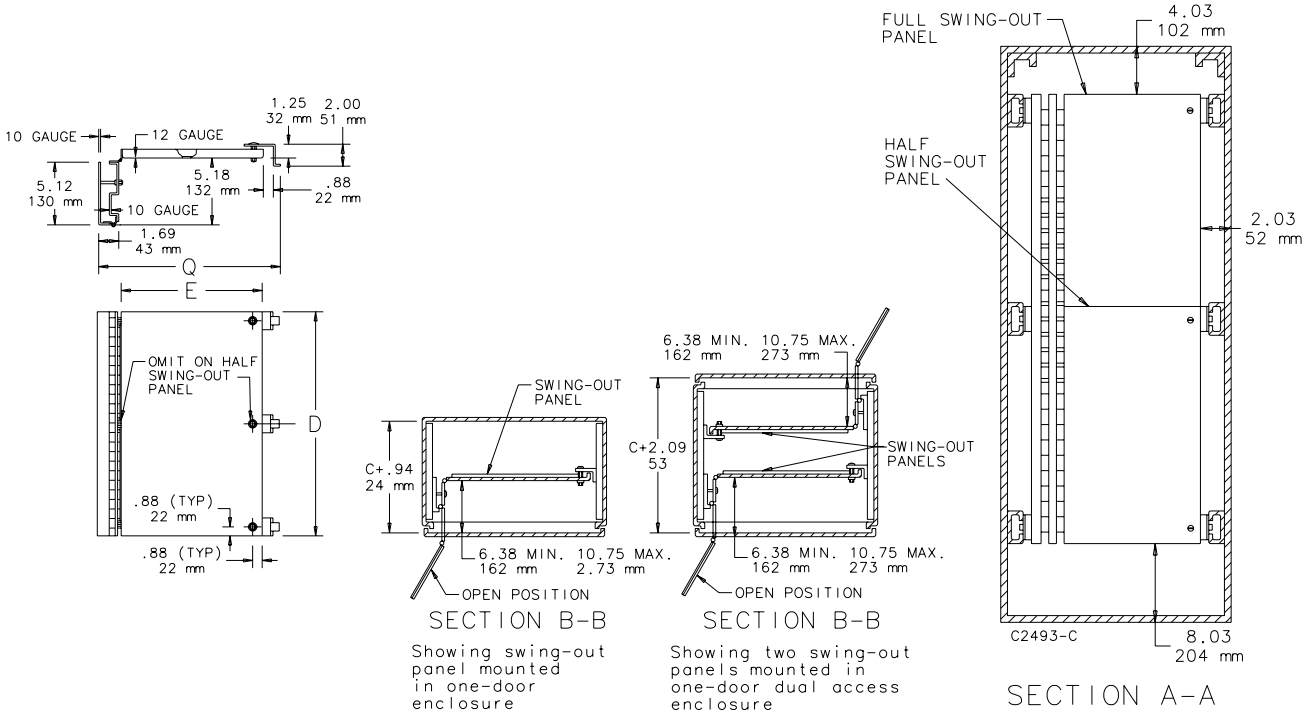
Showing swing-out panels installed in one-door enclosure.

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

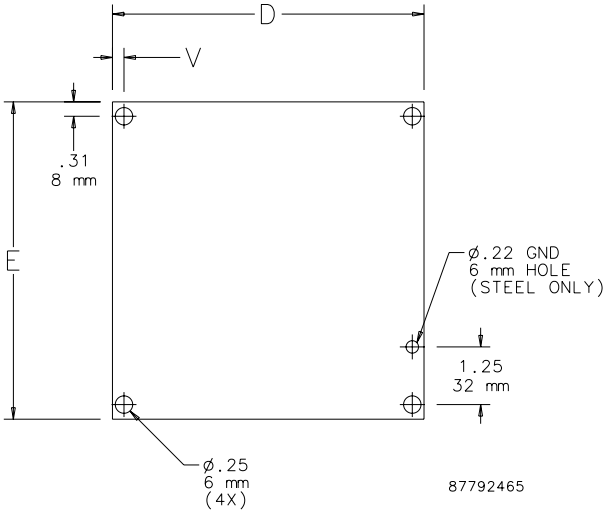


PANELS FOR WIFI CABINETS AND SMALL WALL-MOUNT ENCLOSURES

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

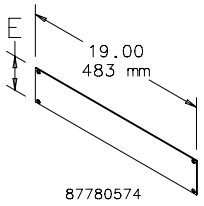


RACK PANEL FOR 19-IN. RACKS

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).

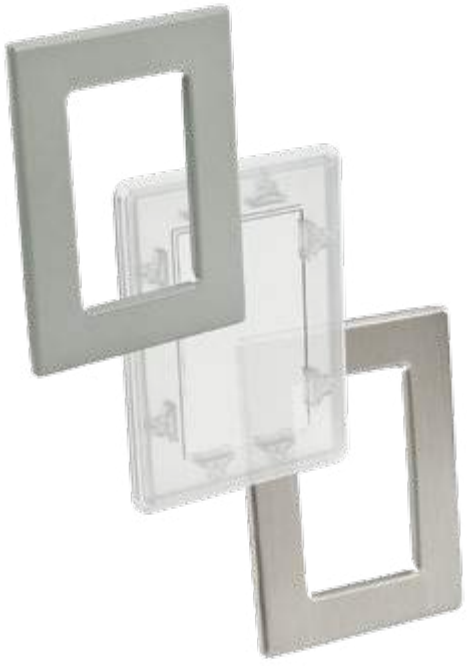
THREADED PANEL EXTENDERS

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

STEEL, STAINLESS STEEL AND NON-METALLIC WINDOW KITS

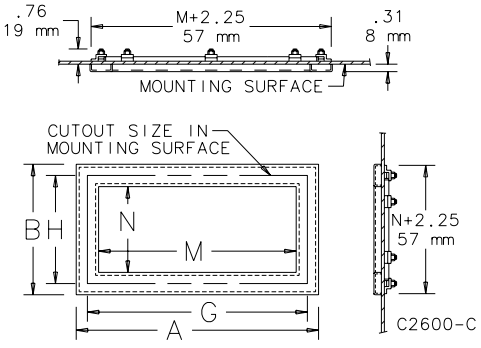


Steel Window Kits have a heavy gauge cold rolled steel formed frame (cleaned and treated for paint endurance and adhesion), painted ANSI 61 gray. The window is a clear acrylic .25-in. (16mm) scratch-resistant material. They are ideal for indoor and outdoor Type 3R, 4 and 12 applications.
Stainless Steel 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

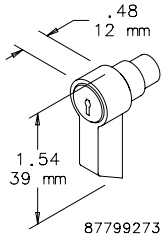
Catalog Number	Window Size in./mm	Maximum Cutout Size in./mm
APWKE52	5.50 x 3.00 140 x 76	4.50 x 2.00 114 x 51
APWKE96	9.62 x 7.19 244 x 183	8.62 x 6.19 219 x 157
APWKE133	13.88 x 3.88 353 x 99	12.88 x 2.88 327 x 73

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

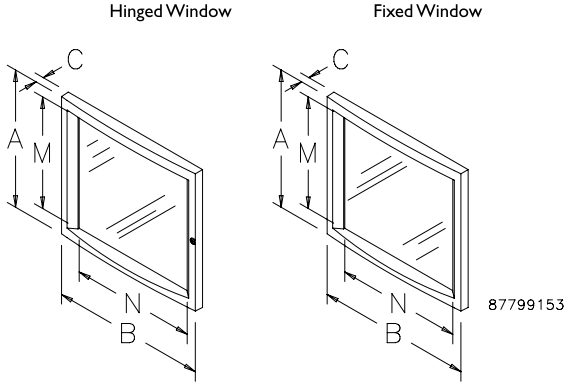
Hinged Window Kits

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

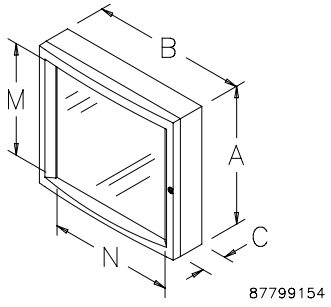
INDUSTRY STANDARDS

UL 508A, 508, File Number E61997: Type 12

NEMA Type 12
CSA File Number LR42186: Type 12
IEC 60529, IP66

APPLICATION

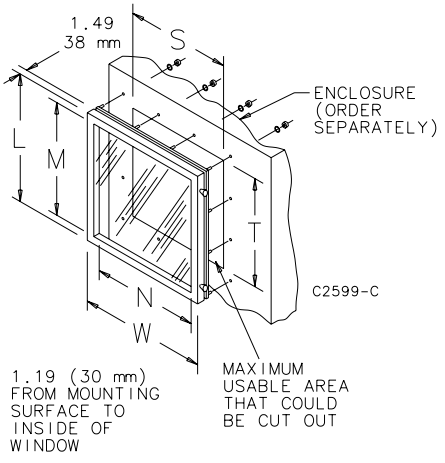
Kit is hinged on left side and has a single-point slotted latch (optional locking or non-locking wing knob latch is also available). Aesthetic die-cast aluminum frame has .188-in. (5-mm) thick, clear polycarbonate window. Two-inch space between enclosure front opening and window surface accommodates 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

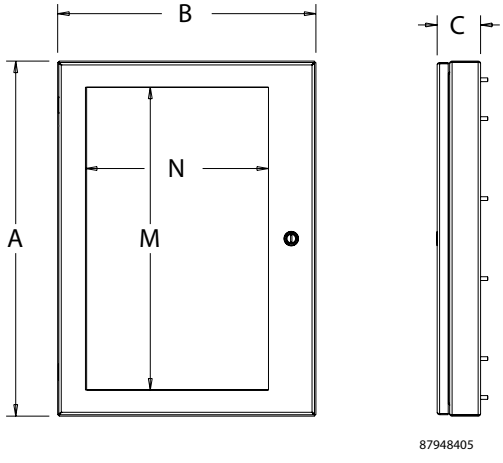
OPTIONS

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

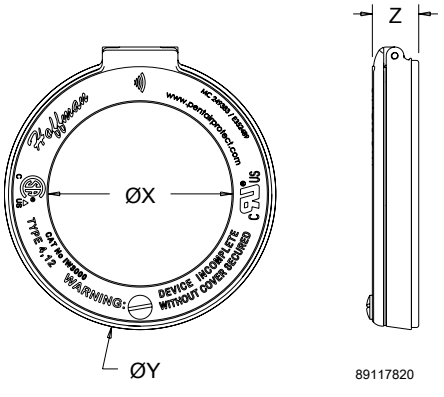
INDUSTRY STANDARDS

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

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

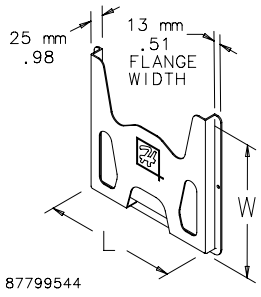
- EPDM Gaskets available in .28 in. (6 mm) thick by .63 in. (16 mm) wide for wall-mount enclosures
- EPDM Gaskets available in .38 in. (10 mm) thick by 1 in. (25 mm) wide for large enclosures
- Silicone gaskets available in .25 in. (6 mm) thick by .50 in. (13 mm) wide for wall-mount enclosures
- Silicone 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

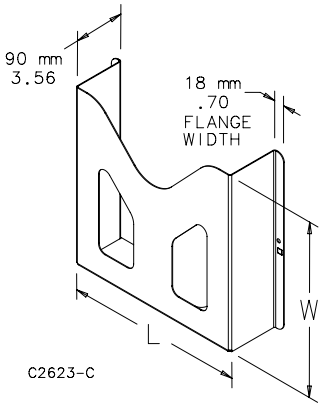


Provides a convenient place to store wiring diagrams, operation manuals and other documentation inside the enclosure. Adhesive-backed pockets mount inside the solid enclosure cover. Mounting hardware included. Thermoplastic pockets are dark gray and have cut-away areas for easy inspection of contents.

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

nVent | HOFFMAN

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

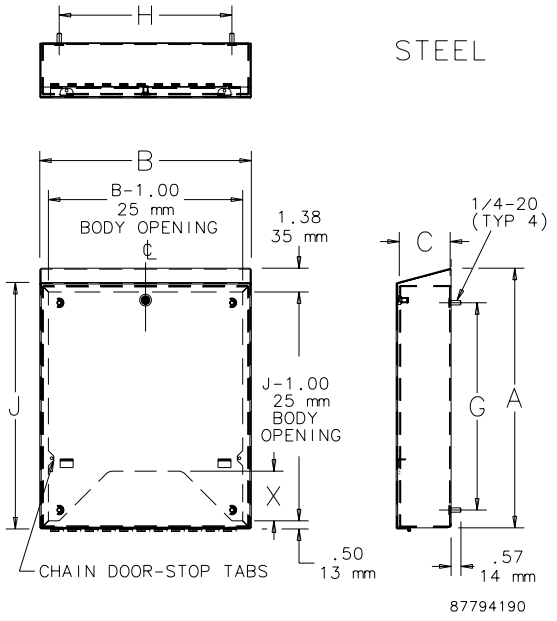
FINISH

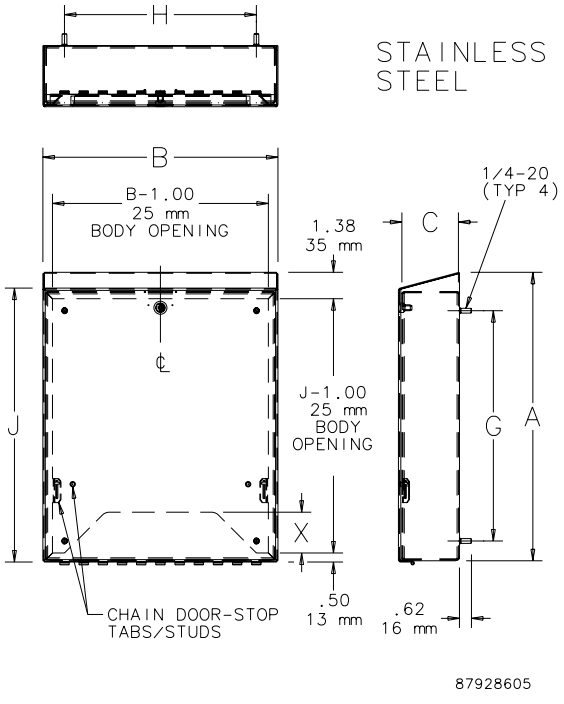
Mild steel models are either ANSI 61 medium-gray or RAL 7035 light-gray polyester powder finish inside and out. Stainless steel models have brushed finish.

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

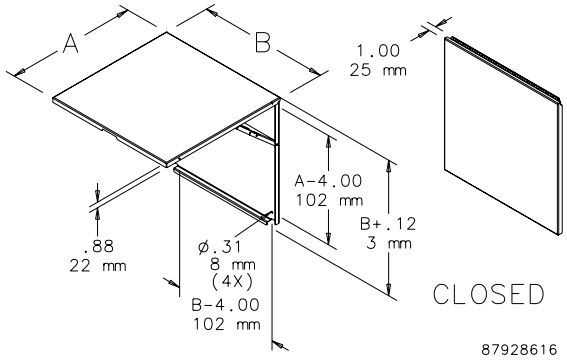

H
STAINLESS
STEEL
B
B-1.00
25 mm
BODY OPENING
1.38
35 mm
1/4-20
(TYP 4)
C
J
J-1.00
25 mm
BODY
OPENING
G
A
X
CHAIN DOOR-STOP
TABS/STUDS
.50
13 mm
.62
16 mm
87928605

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

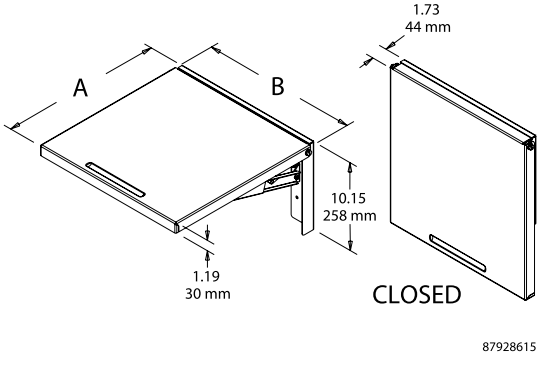


LARGE FOLDING SHELF

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

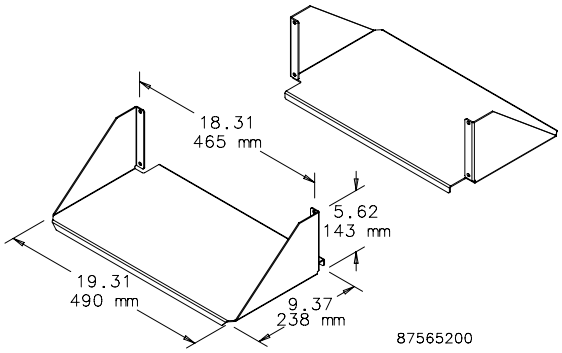


DOUBLE-SIDED SOLID ALUMINUM SHELF

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

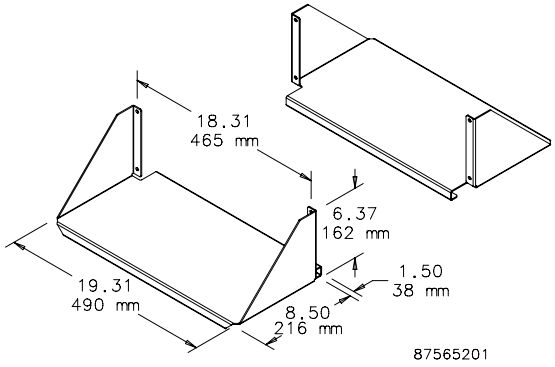


DOUBLE-SIDED, SOLID ALUMINUM, HEAVY DUTY SHELF

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

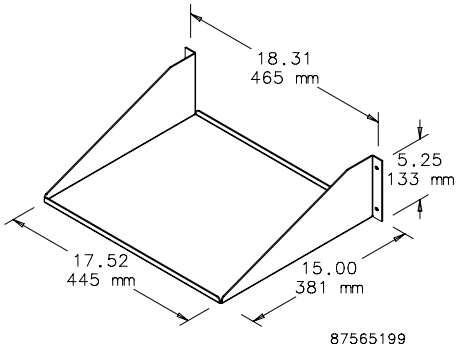


SINGLE-SIDED SOLID ALUMINUM SHELF

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

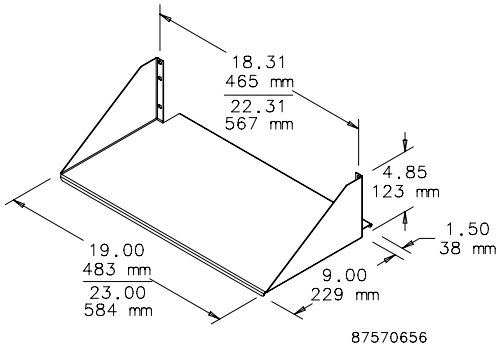


SINGLE-SIDED SOLID-STEEL SHELF

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

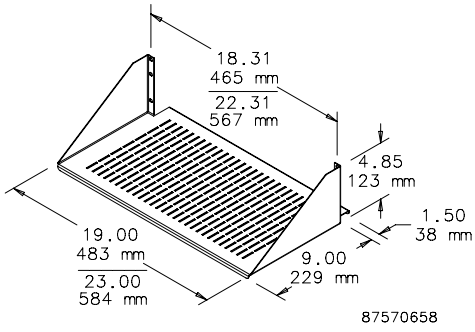


SINGLE-SIDED STEEL VENTED SHELF

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

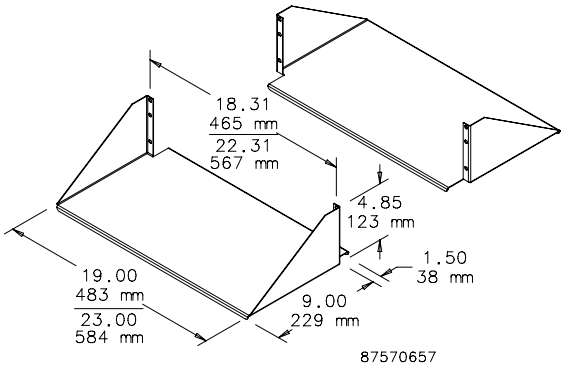


DOUBLE-SIDED SOLID-STEEL SHELF

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

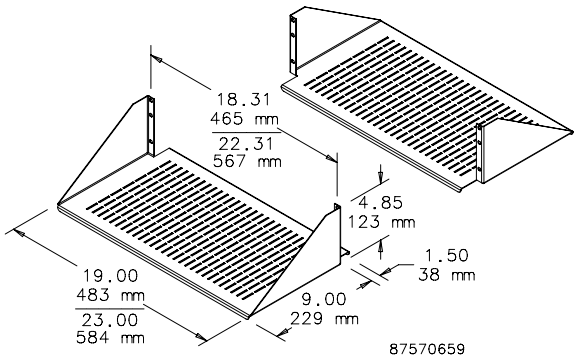


DOUBLE-SIDED STEEL VENTED SHELF

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

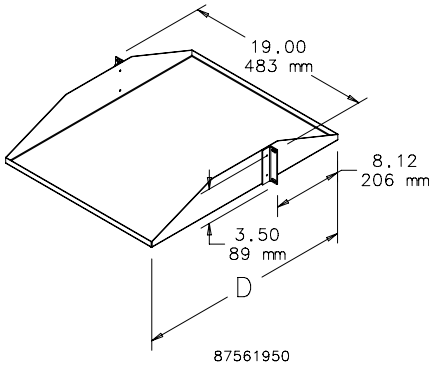


CENTER-MOUNT STEEL SHELVES

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

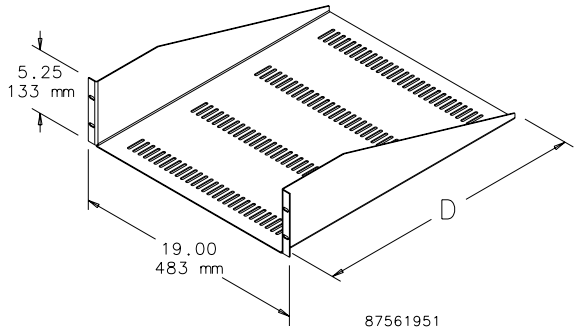


RACK-MOUNT STEEL SHELF

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

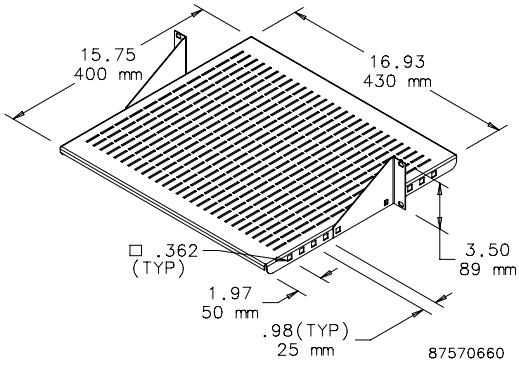


ADJUSTABLE STEEL VENTED SHELF

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

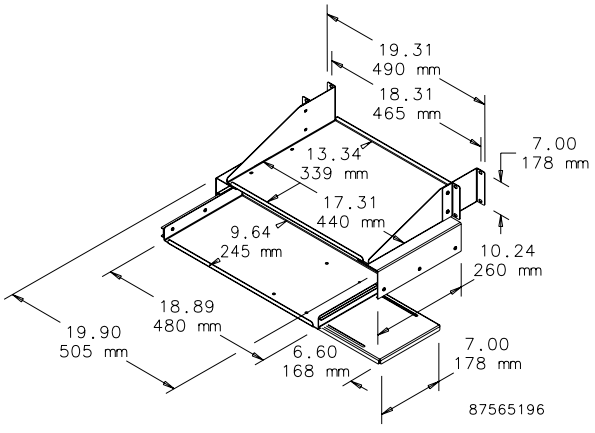


PULLOUT KEYBOARD TRAY WITH MONITOR SHELF

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

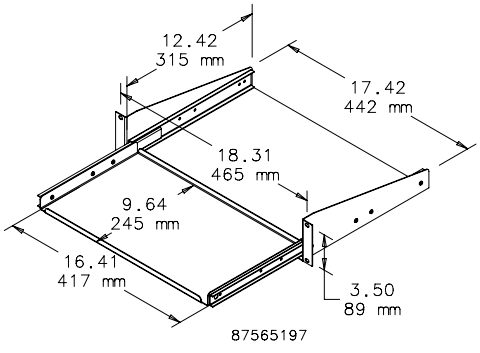


PULL-OUT SHELF FOR MINI KEYBOARD

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

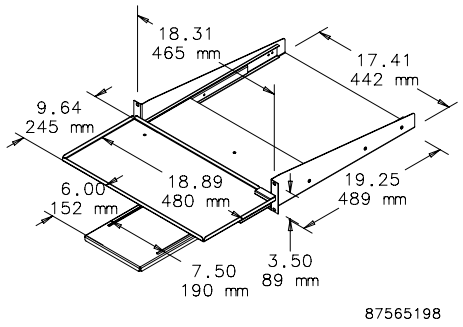


PIVOTING KEYBOARD SHELF WITH MOUSE TRAY

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

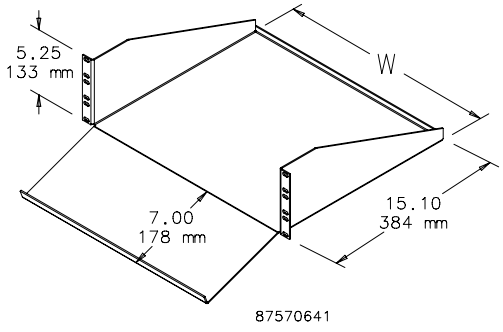


STEEL KEYBOARD/MONITOR SHELF

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

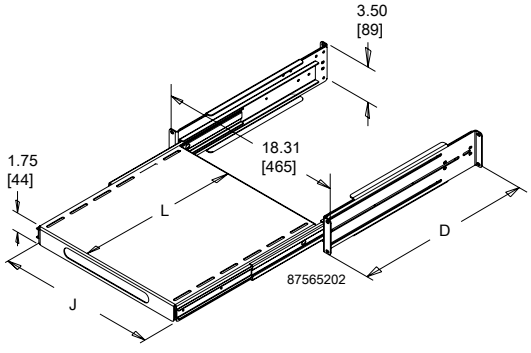
Catalog Number	H x W x D in./mm	Fits Rack	Rack Units
ESH19KBM	5.25 x 17.38 x 15.10 133 x 441 x 384	19	3
ESH23KBM	5.25 x 21.38 x 15.10 133 x 543 x 384	23	3



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

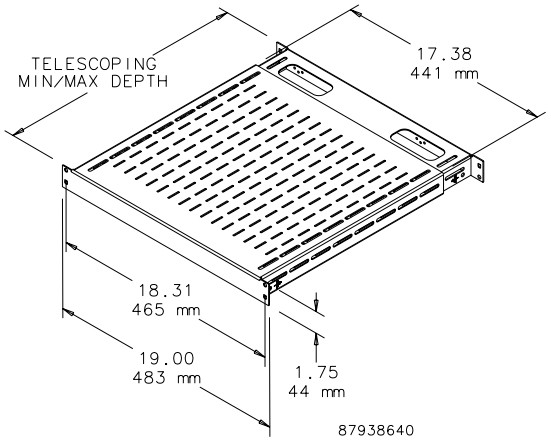
TOOL-LESS SHELF

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

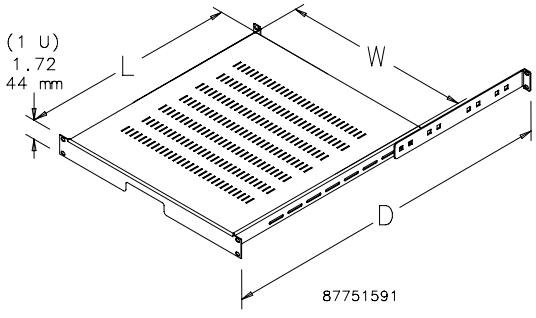
Minimum and maximum depth measured from rack angle to rack angle.



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



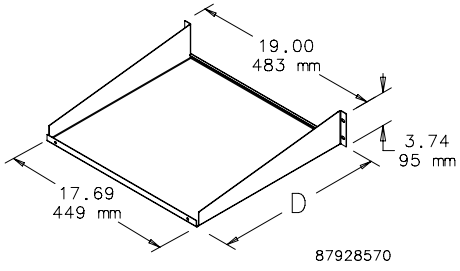
Catalog Number	Type	Size	Finish	L x W (in.)	L x W (mm)	D max. (in.)	D max. (mm)	Fits Enclosure Depth Up To (in.)	Fits Enclosure Depth Up To (mm)
P19SH68	Solid	19 in.	Gray	19.68 x 17.32	500 x 440	30.71	780	31.50	800
P19SH68B	Solid	19 in.	Black	19.68 x 17.32	500 x 440	30.71	780	31.50	800
P19VSH68B	Vented	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

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

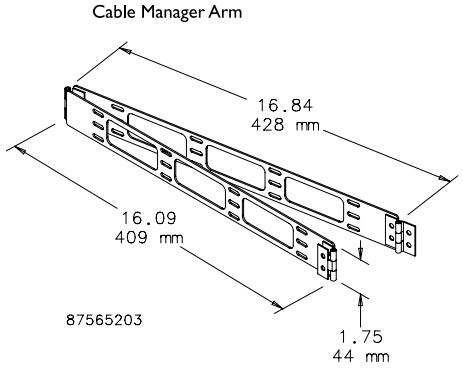


CABLE MANAGER ARM FOR SLIDING EQUIPMENT SHELF

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

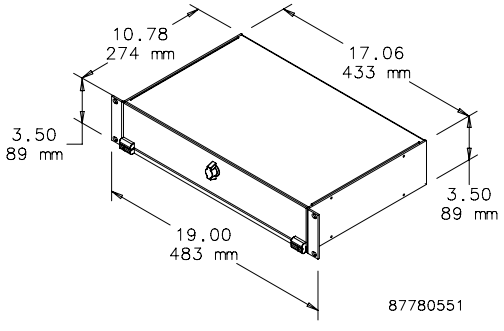


KEYBOARD COMPARTMENT FOR 19-IN. RACKS

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

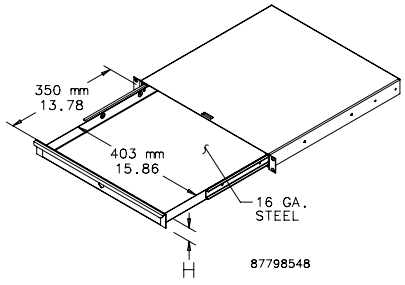


RACK-ANGLE MOUNTED DRAWER

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

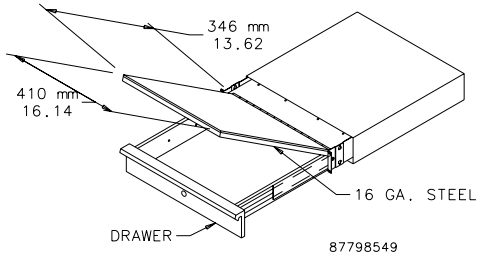


WRITING SURFACE FOR RACK-ANGLE-MOUNTED DRAWER

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

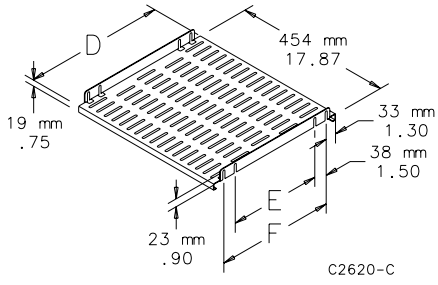
Catalog Number	Description	Fits
P19WS	Steel writing surface and cover	Drawer (order separately)



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.)

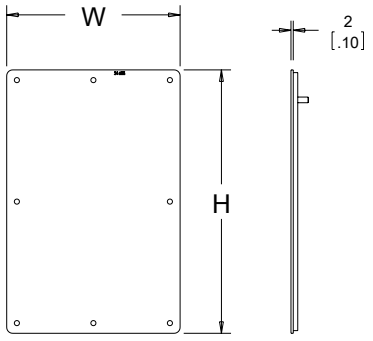
CONCEPT KEYBOARD BOX

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

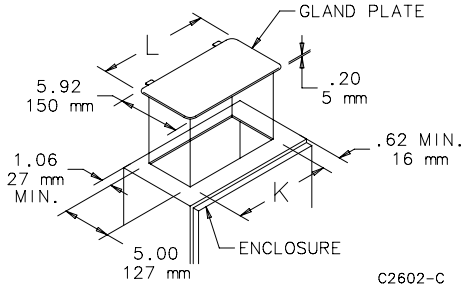
Catalog Number	Cutout Size (in.)	Cutout Size (mm)	W x H (in.)	W x H (mm)
GP126	9.50 x 3.75	241 x 95	10.98 x 5.23	279 x 133
GP128	9.50 x 5.75	241 x 146	10.98 x 7.23	279 x 184
GP166	13.50 x 3.75	343 x 95	14.98 x 5.23	380 x 133
GP168	13.50 x 5.75	343 x 146	14.98 x 7.23	380 x 184
GP206	17.50 x 3.75	446 x 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

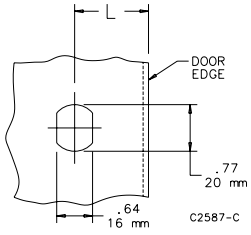
Catalog Number	Size in./mm	Opening Size in./mm
AGP618	6.50 x 18.50 165 x 470	4.00 x 16.00 102 x 406
AGP1218	12.50 x 18.50 318 x 470	10.00 x 16.00 254 x 406
AGP1618	16.50 x 18.50 419 x 470	14.00 x 16.00 356 x 406

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

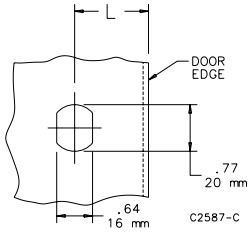


LOCK KIT FOR TYPE 3R AND 12 ENCLOSURES

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

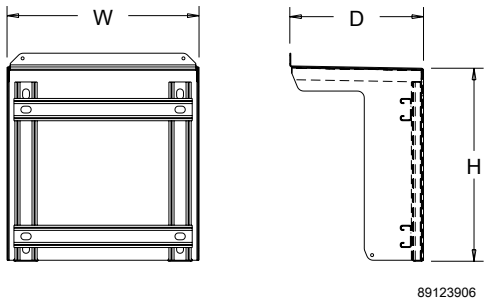
- 14 gauge galvanized steel
- Adjustable mounting allows various wall-mount enclosures to fit inside the solar shield. Refer to the table below to determine which solar shield fits your enclosure size.
- Fits most CONCEPT, INLINE and NEMA Type 4 wall-mount enclosures and junction boxes (i.e. Bulletins A51NF and A51FL)
- Hardware is included for mounting an enclosure to the solar shield

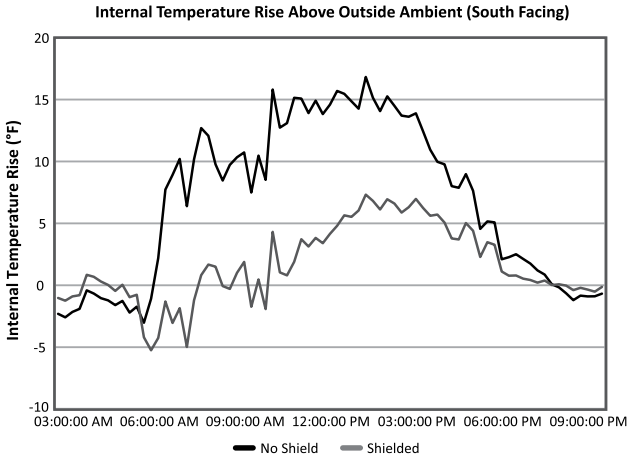
FINISH

- 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

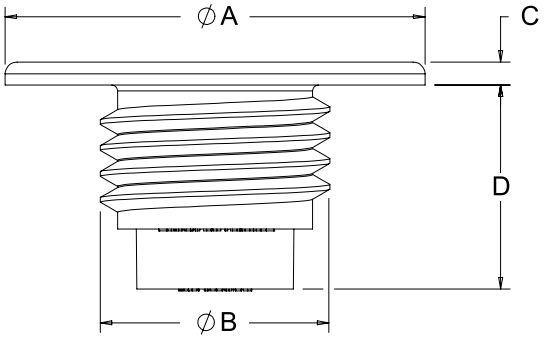
RAL 7035 light-gray textured finish

BULLETIN: A80HS

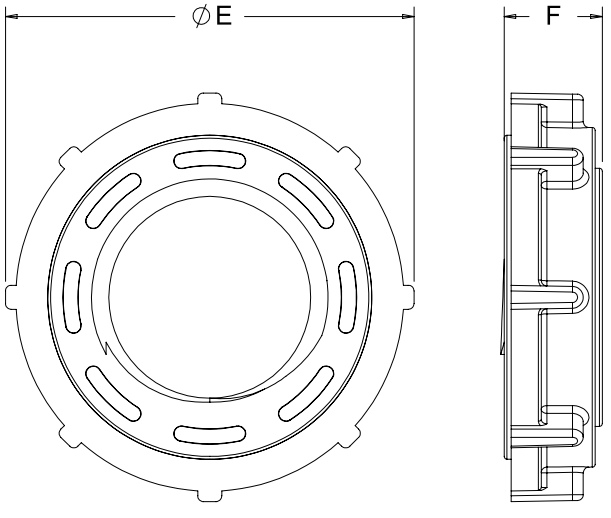
Standard Product **Non-Metallic Hole Seals**

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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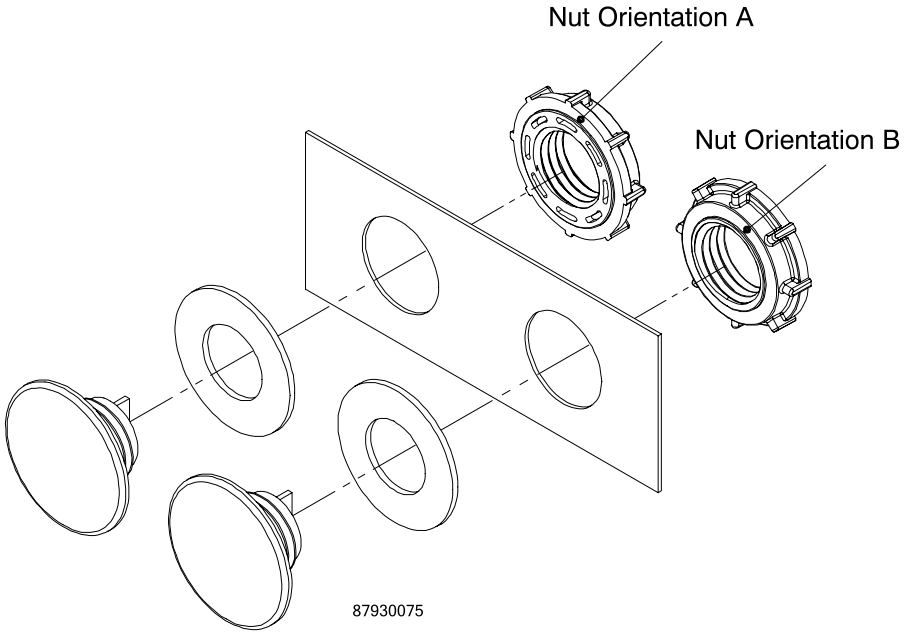
HOL-SEALERS Fit These Hole Sizes

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.

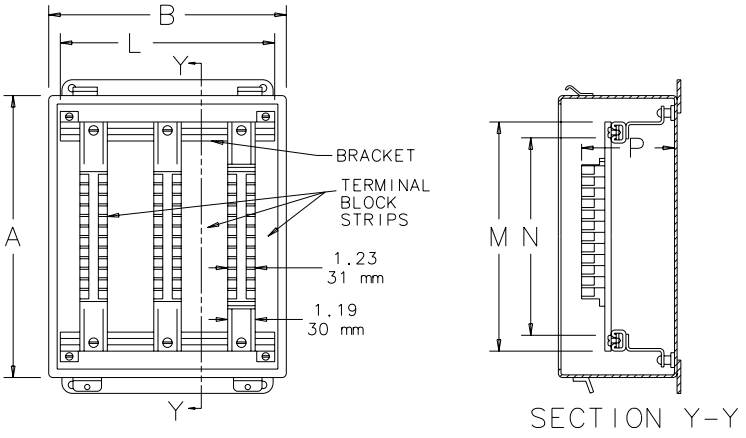
How To Order

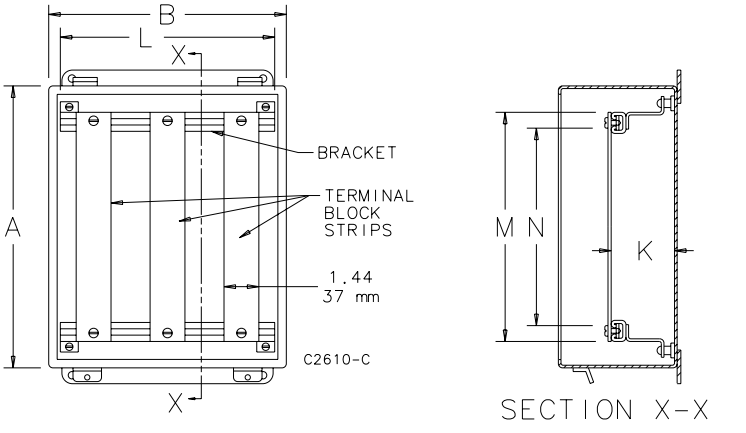
Terminal Kit Assemblies can be installed with the terminal straps or terminal strips parallel to the A dimension or the B dimension of the box. Each box requires one bracket assembly plus the desired number of terminal straps or terminal block strips. The bracket assembly and the terminal straps or terminal 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.

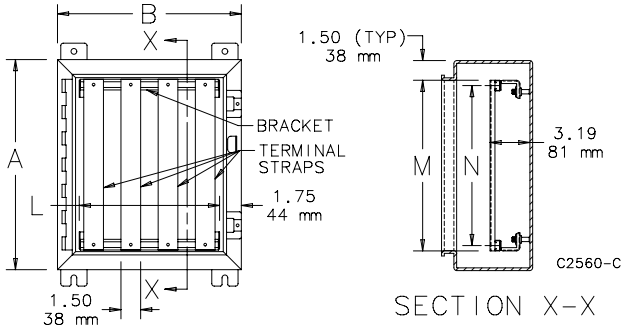
1. To select the correct terminal straps, determine whether the terminal straps will be mounted parallel to the A dimension or the B dimension of the enclosure. **Be sure to specify the quantity required.**
2. To select the correct bracket assembly, determine whether the brackets will be mounted parallel 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

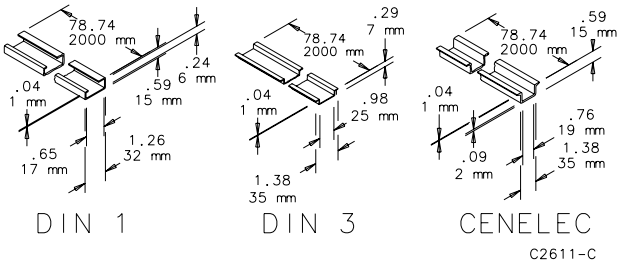
Terminal strap NOT included.

DIN TYPE RAILS

Catalog Number	Description
ADNR1	DIN 1 mounting rail TS32
ADNR3	DIN 3 mounting rail TS35x7.5
ACENR1	CENELEC mounting rail TS35x15

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



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)

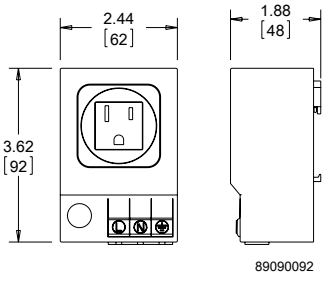
FINISH

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

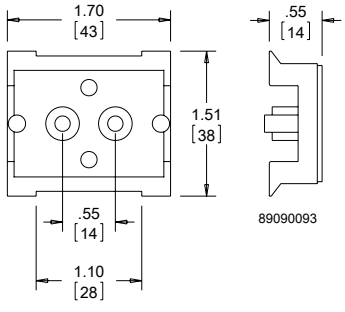
Composite, smooth texture, black

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



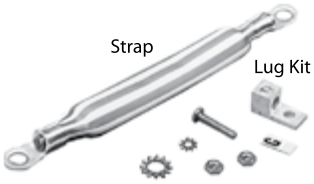
INDUSTRY STANDARDS

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

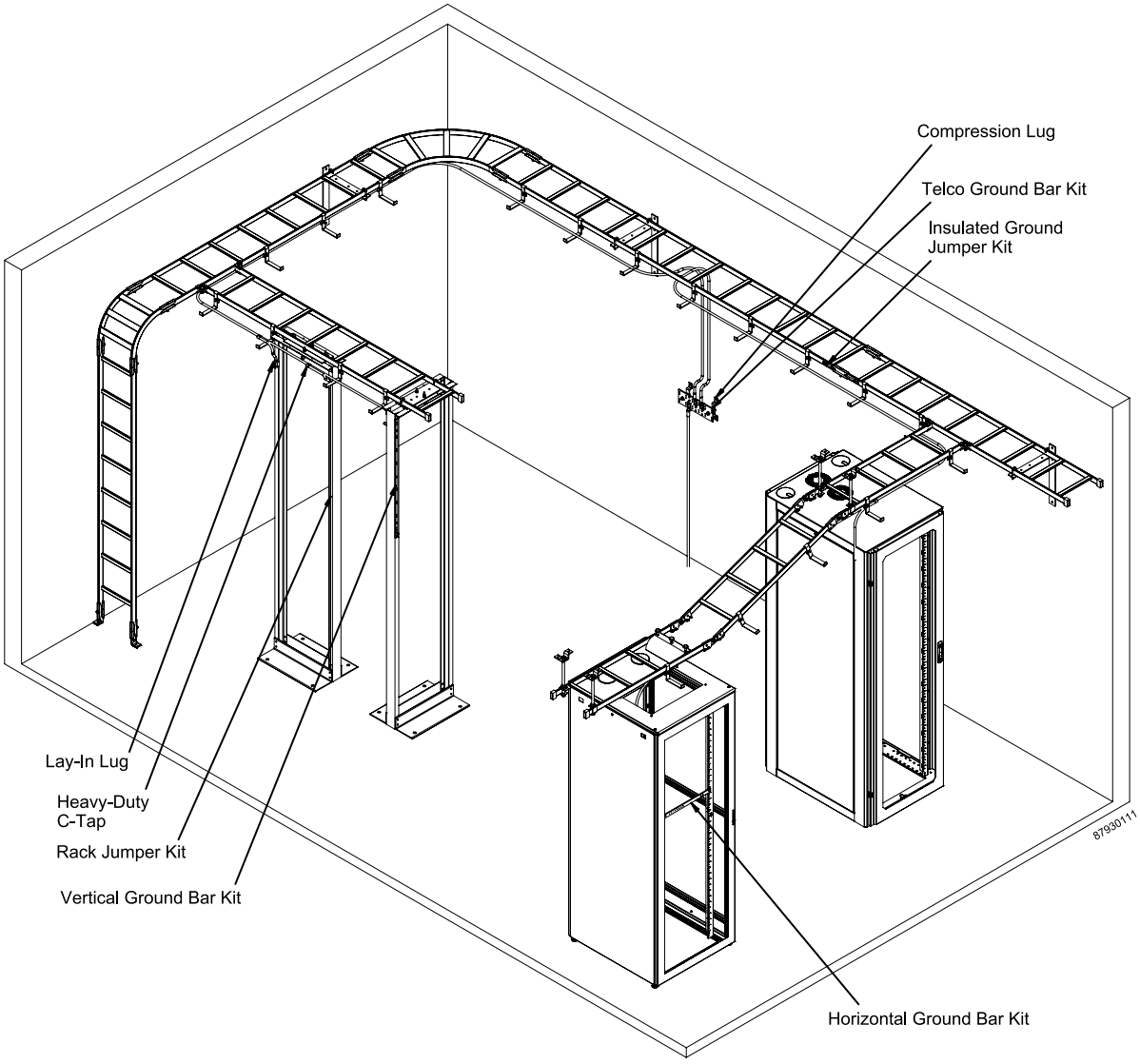
GROUNDING KIT

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

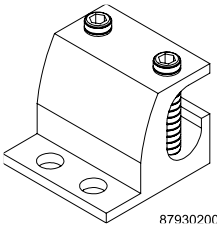
APPLICATION

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

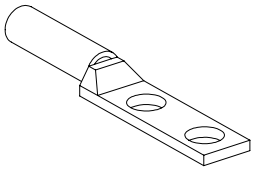


Dual-rated, UL486B listed lay-in lug bonds end of cable securely to rack. Made of electroplated 6061-T6 aluminum. Requires 3/16-in. hex key (not included).

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

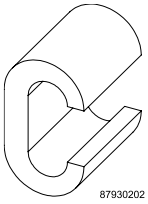


Compression lugs terminate copper or tinned-copper conductors for connection to busbars, cabinets, racks, and cable runway. Color-coded by conductor size. Made of electroplated, tinned copper. Require two screws (not included).

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

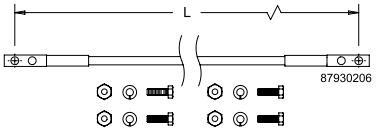


C-Taps splice two stranded or solid connectors together. Made of copper. Require a crimping tool (not included) to correctly tighten C-Taps around connectors.

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



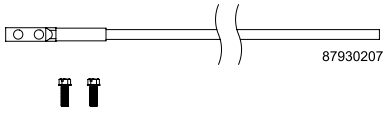
Fastens across splices to provide a secure ground between sections of ladder rack. Made of #6 AWG x 7 strand wire with green THW insulation and two-hole compression lugs mounted on each end. Includes fasteners.

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

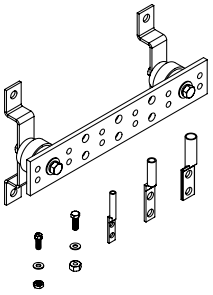
Catalog Number	Conductor Type	Length (ft.)	Length (m)
DGRJ	#6-7 stranded	9	2.7

TELECOMMUNICATIONS GROUND BAR KITS

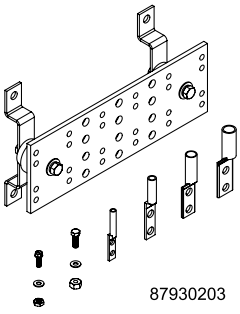
Provide a convenient central location for connecting grounds from telecommunications equipment, computers, and other network equipment. Made of copper. Kits include ground bar with two mounting brackets, an assortment of connectors, and a tube of antioxidant.

BULLETIN: DBG

2-inch Wide Bar



4-inch Wide Bar



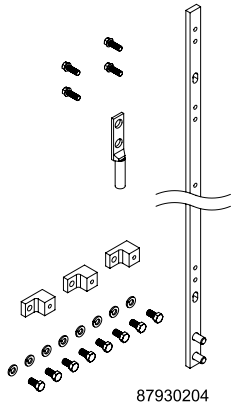
87930203

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



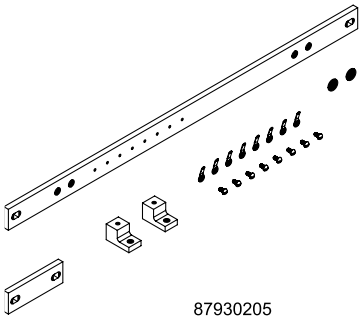
87930204

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

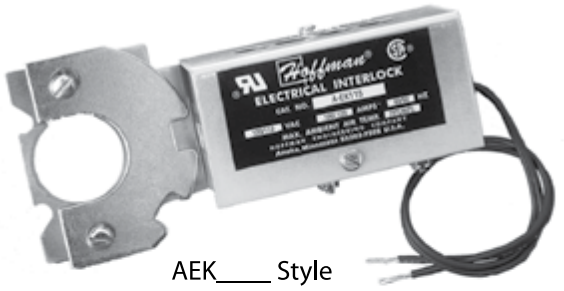
Mount horizontally on rack, providing a convenient place to connect equipment grounds. Made of electrolytic tough-pitch 110 copper alloy. Kits include ground bar with mounting hardware, eight #6-32 x 14 machine screws, and eight #6 ring terminals.

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

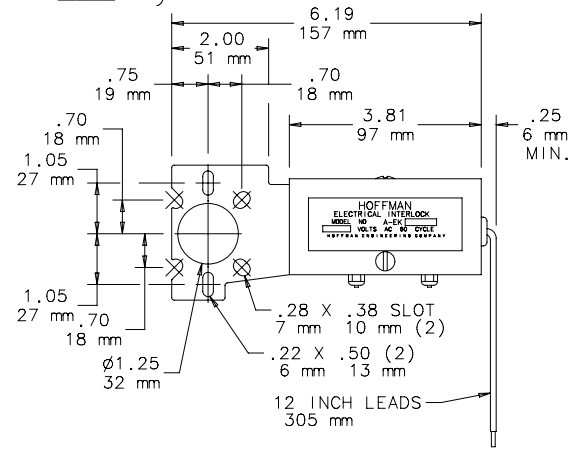
Standard Product **A-EK___ Style**

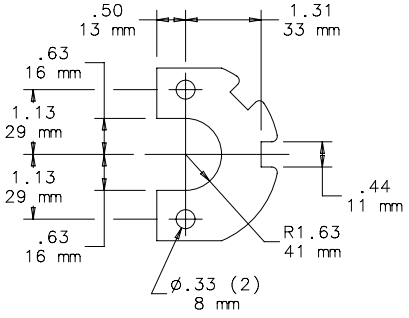
Catalog Number	Volts @ 50/60 Hz	Normal/Inrush Amps @ 60 Hz	Normal/Inrush Amps @ 50 Hz
AEK115	110/120	.100/.63	.120/.69
AEK230	220/240	.050/.32	.060/.35
AEK460	440/480	.025/.16	.030/.18

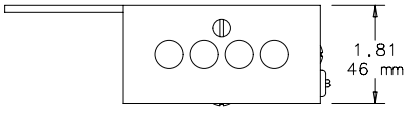
Standard Product **AEK___NDH Style**

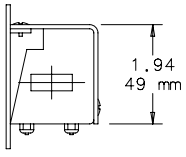
Catalog Number	Volts @ 50/60Hz	Normal/Inrush Amps @ 60 Hz	Normal/Inrush Amps @ 50 Hz
AEK115NDH	110/120	.100/.63	.120/.69
AEK230NDH	220/240	.050/.32	.060/.35
AEK460NDH	440/480	.025/.16	.030/.18

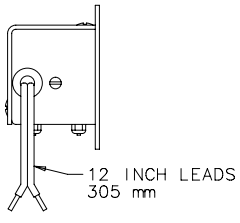
AEK____Style



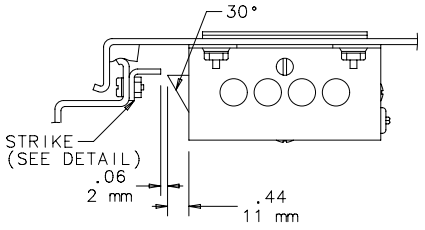


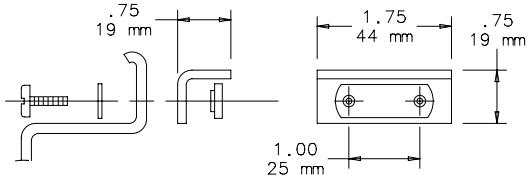




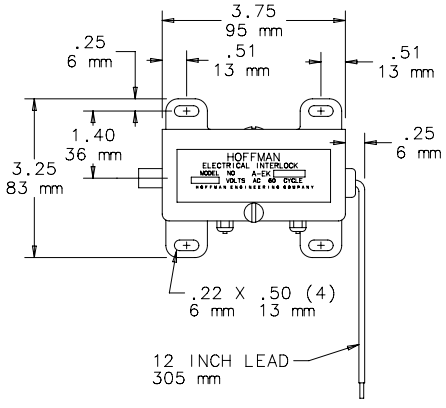


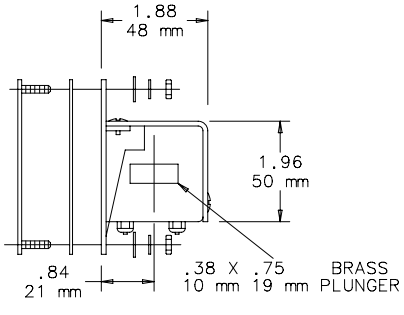
AEK____NDH Style





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.

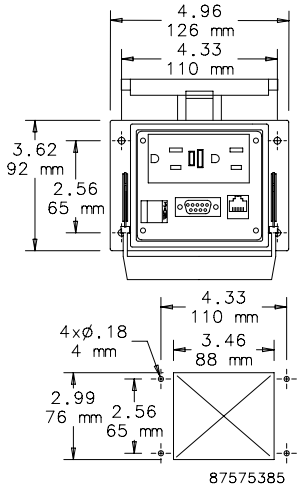
PANEL INTERFACE CONNECTOR

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

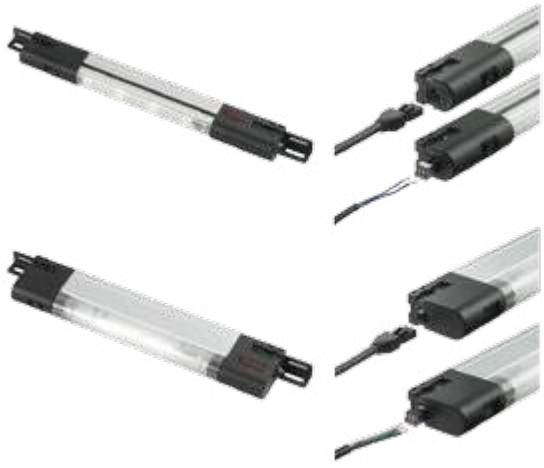
Catalog Number	Description
AC4DB9RJ45GFI	Panel Interface Connector



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:

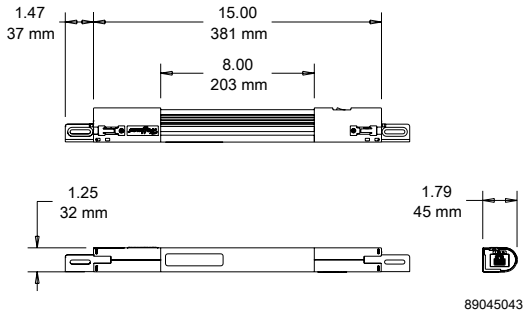
- LED (Light Emitting Diode) low-power light kit
- Screw mounting using included hardware kit (maintains enclosure rating up to UL Type 4X)
- No user-serviceable parts
- Life expectancy of 60,000 hours at 68 F (20 C) under specifications
- Operating temperature: -22 to +140 F (-30 to +60 C) under specifications
- 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

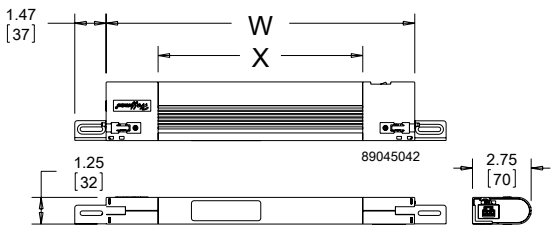
Catalog Number	Description	VDC	Amps	W in./mm	X in./mm
LED24V15	LED Light, 15 in.	24	.5	15.00 381	8.00 203



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

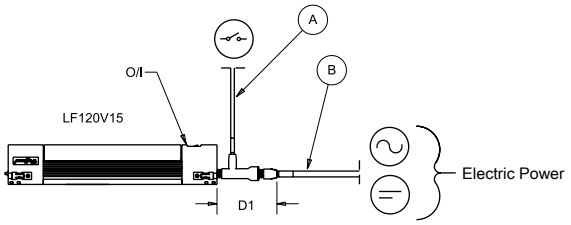
Door Switch Cables not required. Terminal blocks are provided with each light for hard-wired connection to remote door switch.

BULLETIN: A80LT

Catalog Number	Length
LDSWITCH18	18 in.
LDSWITCH72	72 in.

PANELITE WIRING OPTIONS

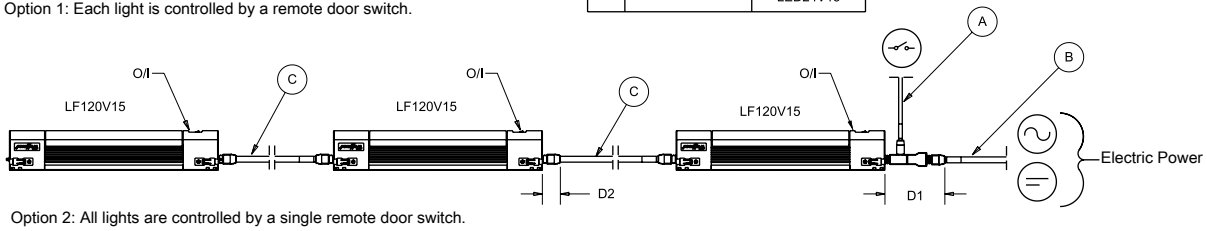
See the table on the drawing for cable clearance dimensions.



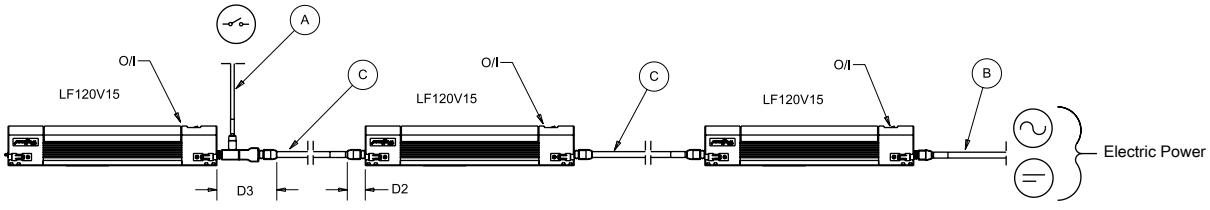
ITEM	CONNECTOR TYPE	LIGHT FIXTURE
A	LDSWITCH18 LDSWITCH72	LF120V15 LF120V18 LF120V28 LED24V15
B	LF120VCORD LPC72	LF120V15 LF120V18 LF120V28
	LED24VCORD	LED24V15
C	LGCABLE24 LGCABLE48 LGCABLE72	LF120V15 LF120V18 LF120V28 LED24V15

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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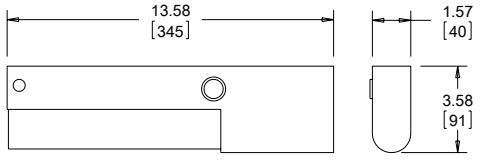
230 VAC FLUORESCENT ENCLOSURE LIGHT

- 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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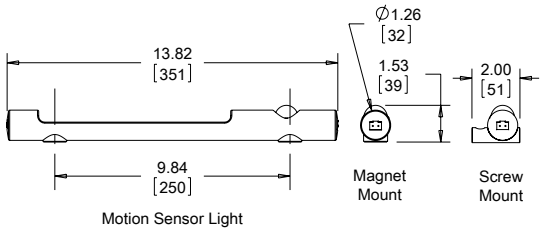
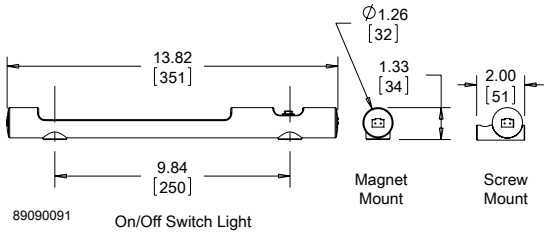
LED LIGHT KIT

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.

BULLETIN: A80LT





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

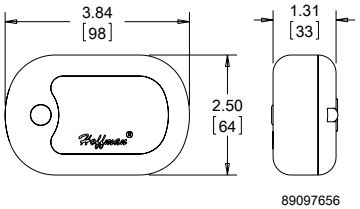
Catalog Number	Description
PDLFBRKT	Mounting Bracket Kit

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.

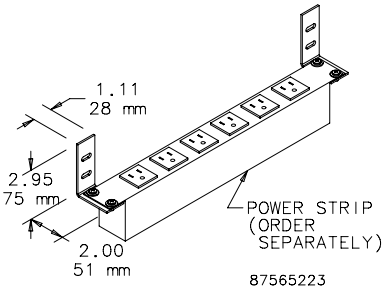
DP1E2663030MT includes input power monitoring with breaker level current monitoring, daisy chain Ethernet connectivity.

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.

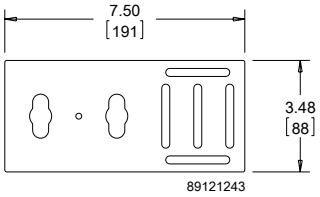
BULLETIN: DPS

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



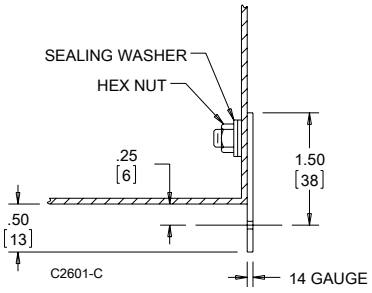
Catalog Number	Finish	Pkg. Qty
DPDU1	Painted black	2

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



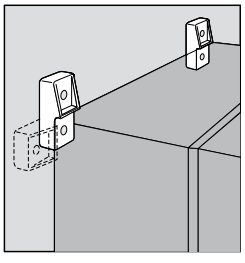
MOUNTING BRACKET KITS (CMFK, CMTGFT)

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

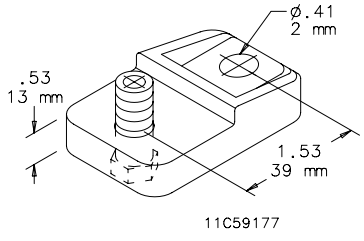
Catalog Number	Description	Fastener Thread Size
CMFK	Steel	#3/8-16
CMFKSS	Stainless Steel	#3/8-16
CMTGFT	Composite	#3/8-16

ULTRX MOUNTING BRACKET KIT



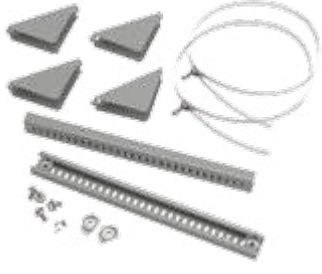
Kit is field-installable. Corrosion-resistant fiberglass material. Type 316 stainless steel mounting hardware is included. Four mounting brackets per kit.

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

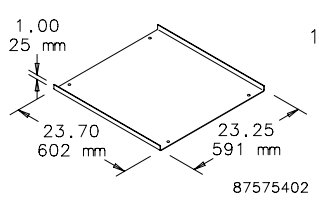
Catalog Number	Fits Enclosure (in.)	Fits Enclosure (mm)
CPMK12	when B = 12.00	when B = 305
CPMK16	when B = 16.00	when B = 406
CPMK20	when B = 20.00	when B = 508
CPMK24	when B = 24.00	when B = 610
CPMK30	when B = 30.00	when B = 762

BOTTOM SUPPORT KIT

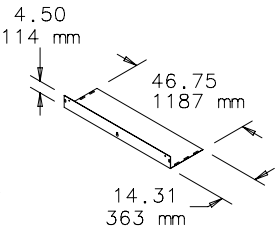
Bolt-in bottom support plate with mountng hardware. Coated with ANSI 61 gray polyester powder paint. Required when installing Hoffman floor stands or casters on A17 fiberglass free-standing enclosures.

BULLETIN: A17Y

Catalog Number	Use With
A17SUPPORT1	A17 One-Door Fiberglass Enclosures
A17SUPPORT2	A17 Two-Door Fiberglass Enclosures



A17SUPPORT1



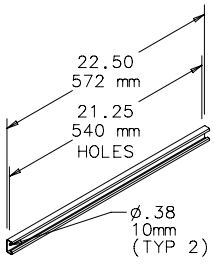
A17SUPPORT2

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

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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.

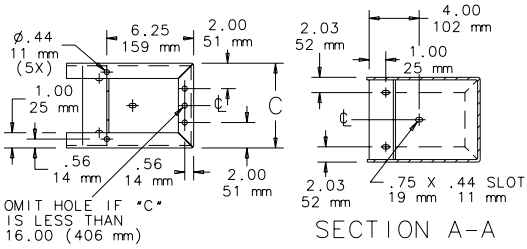
COMPONENTS

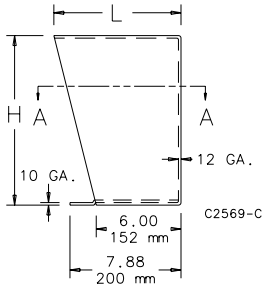
Each kit includes two stands. Two sets of floor stands are recommended for enclosures larger than double door free-stand enclosures.

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

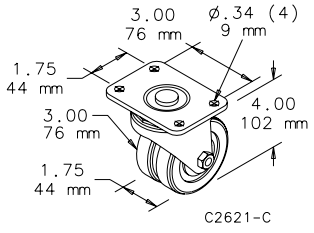
Catalog Number	Material	Height, H (in.)	Height, H (mm)	Width, C (in.)	Width, C (mm)	L (in.)	L (mm)
AFK2416SS	Stainless Steel, 304	24.00	610	16.06	408	9.09	231
AFK2418SS	Stainless Steel, 304	24.00	610	18.06	459	9.09	231
AFK2424SS	Stainless Steel, 334	24.00	610	24.06	611	9.09	231
AFK0608SS6	Stainless Steel, 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.

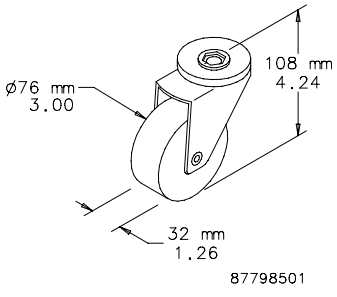
NOTE: Avoid large cracks, floor displacement, seams, gravel and any other obstructions.

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



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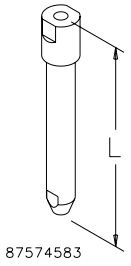
SANITARY LEG KITS

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



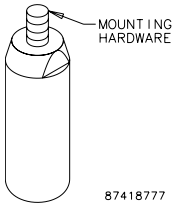
STAINLESS STEEL LEGS

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.

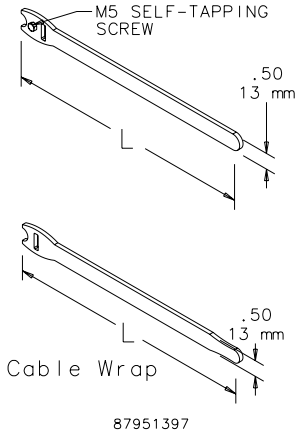
NOTE: These legs will not fit on the PROLINE G2 Fully-Sealed Plinth Base.

BULLETIN: P20S

Catalog Number	Description
PLEGSS	(4) Stainless Steel Legs



VELCRO® CABLE WRAP



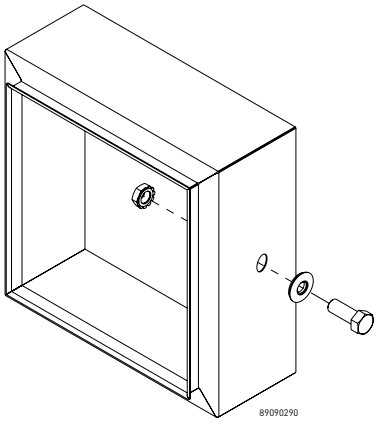
Securely holds cable to cable manager and unfastens easily for cable maintenance. VELCRO® is 0.5-in. (12.7-mm) wide. Available in 8- and 12-in. (203- and 305-mm) lengths in both screw fastener and wrap styles. M5 self-tapping screw is used on Net Series or PROLINE frames.

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.

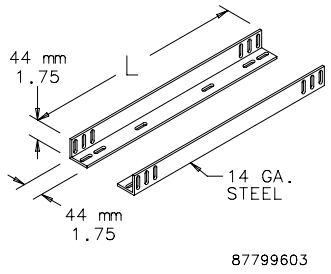
BULLETIN: DACCY

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

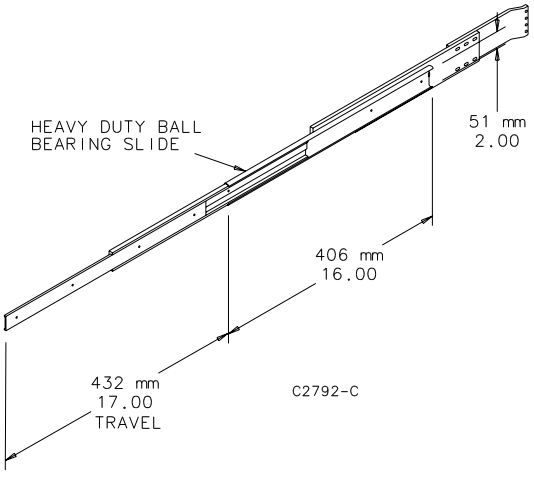


Catalog Number	Length in./mm	Rack Units
AG1U5	15.00 381.0	1
AG1U6	21.00 533.4	1
AG1U8	26.00 660.4	1

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

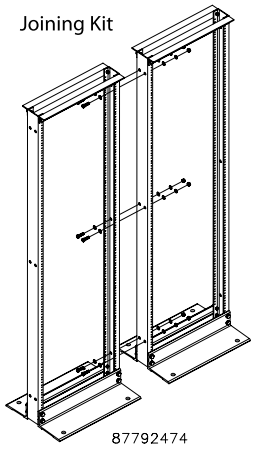
Catalog Number	Description	Application	Voltage and Frequency	Current Draw	Temperature Settings (C)	Temperature Settings (F)
A19FANSC	19-in. Rack-Mount Fan Speed Control	Fan speed adjusted manually	120V, 60 Hz	4A max.	Continously variable	Continously variable

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

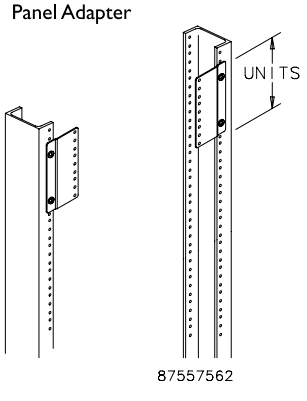


PANEL ADAPTER

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.

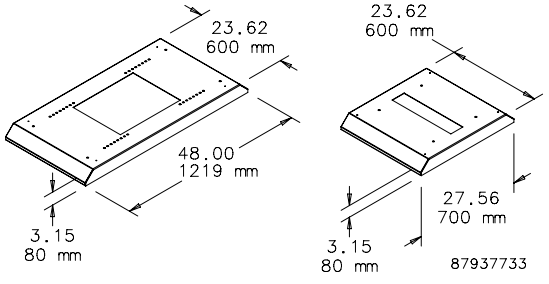
BULLETIN: DOFRY

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

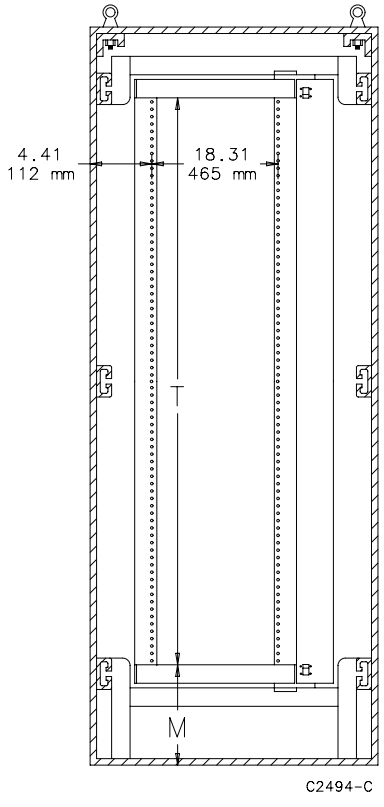
SWING-OUT RACK MOUNTING FRAMES

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.

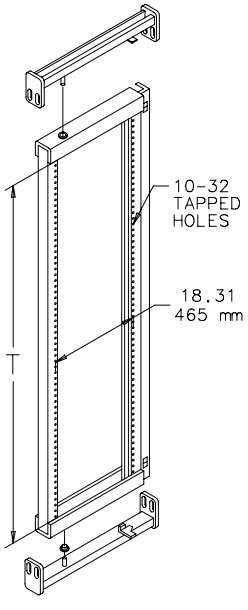
BULLETIN: A80

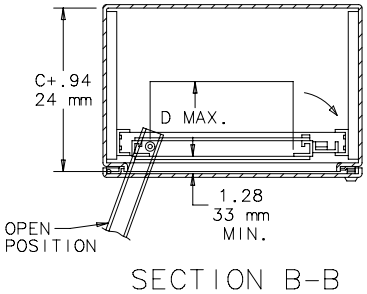
Catalog Number	Fits Enclosure Size A x B in./mm	T in./mm	M in./mm	D max in./mm	Number of Units
A7230SOF19	72.06 x 30.06 1830 x 764	57.88 1470	9.09 231	16.25 413	33
A7236SOF19	72.06 x 36.06 1830 x 916	57.88 1470	9.09 231	24.25 616	33
A9036SOF19	90.06 x 36.06 2287 x 916	75.28 1915	9.34 237	24.25 616	43

One unit equals 1.75 inches (44mm).

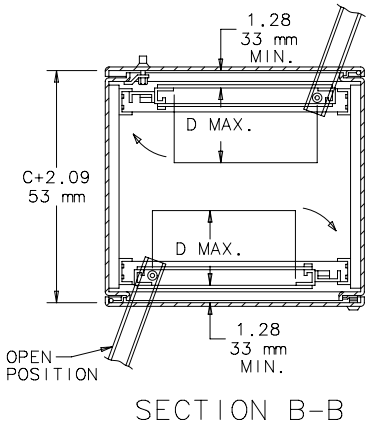


SECTION A–A





SECTION B–B

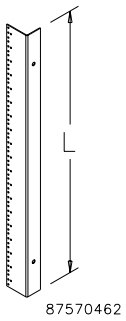


SECTION B–B

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

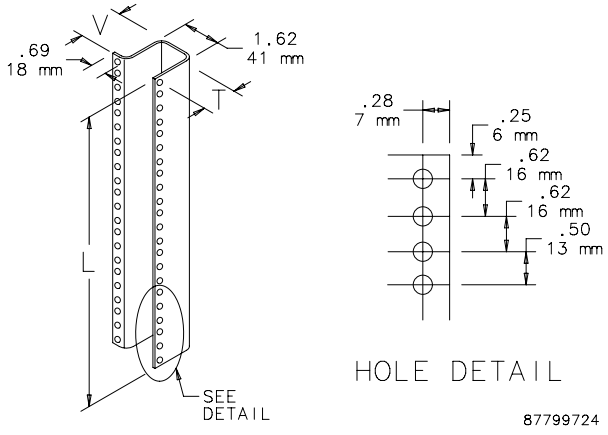
RACK MOUNTING ANGLES - U STYLE (TYPE RA)

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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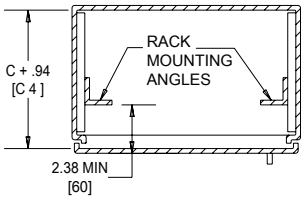
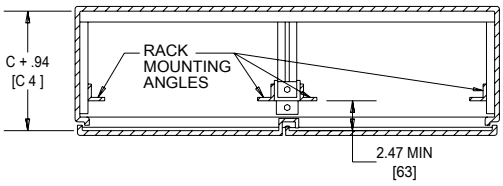
Rack Mounting Angles Installed in Enclosures



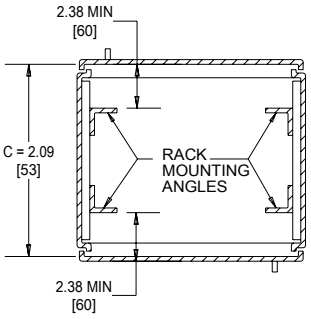
SECTION B-B

Showing rack mounting angles installed in single-door enclosure



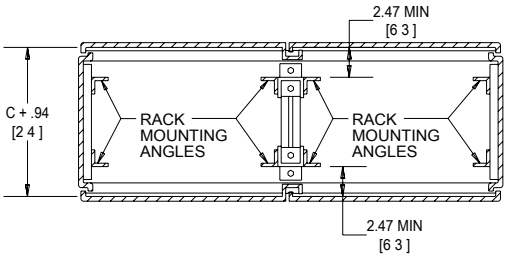
SECTION B-B

Showing two sets of rack mounting angles and center panel supports mounted in two-door enclosure



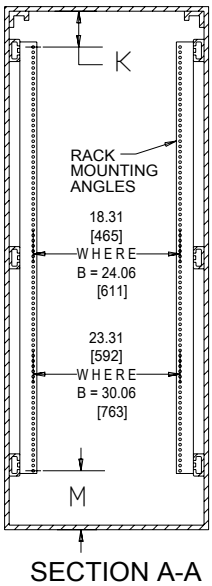
SECTION B-B

Showing two sets of rack mounting angles mounted in single-door, dual-access enclosure

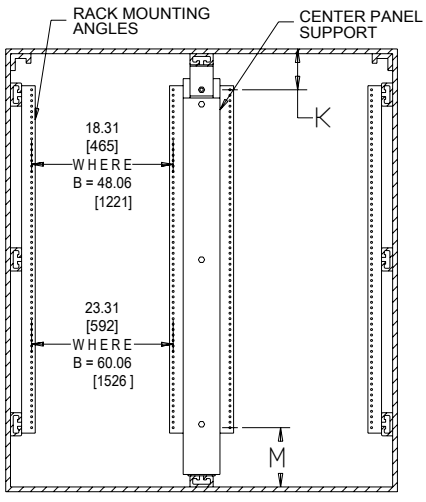


SECTION B-B

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

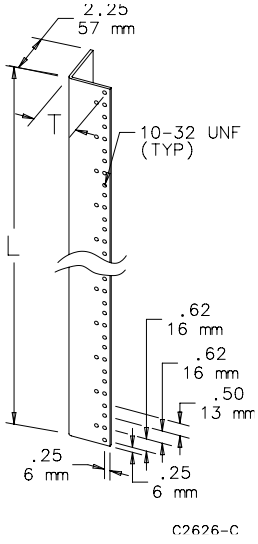
RACK MOUNTING ANGLES - L STYLE (TYPE RP)

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.

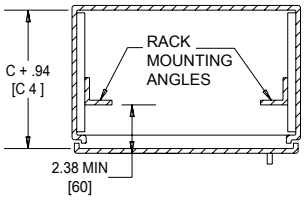
BULLETIN: A80

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).

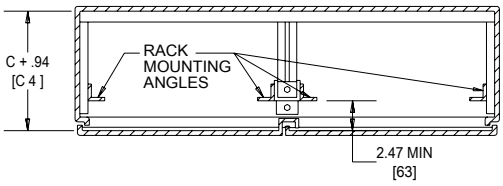


Rack Mounting Angles Installed in Enclosures



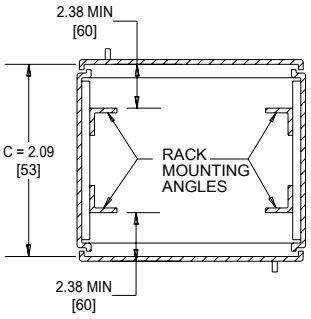
SECTION B-B

Showing rack mounting angles installed in single-door enclosure



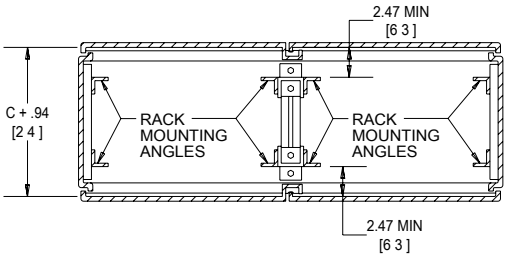
SECTION B-B

Showing two sets of rack mounting angles and center panel supports mounted in two-door enclosure



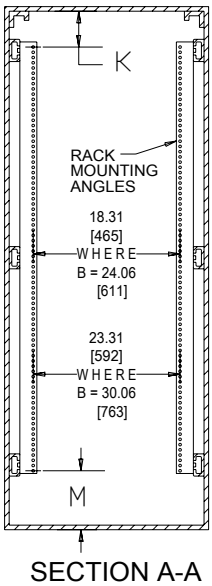
SECTION B-B

Showing two sets of rack mounting angles mounted in single-door, dual-access enclosure

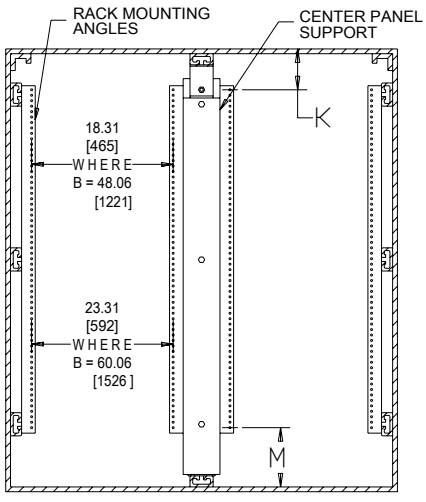


SECTION B-B

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

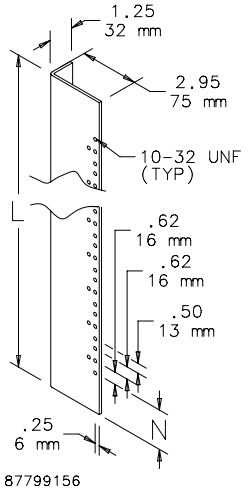
RACK MOUNTING ANGLE KIT - L STYLE

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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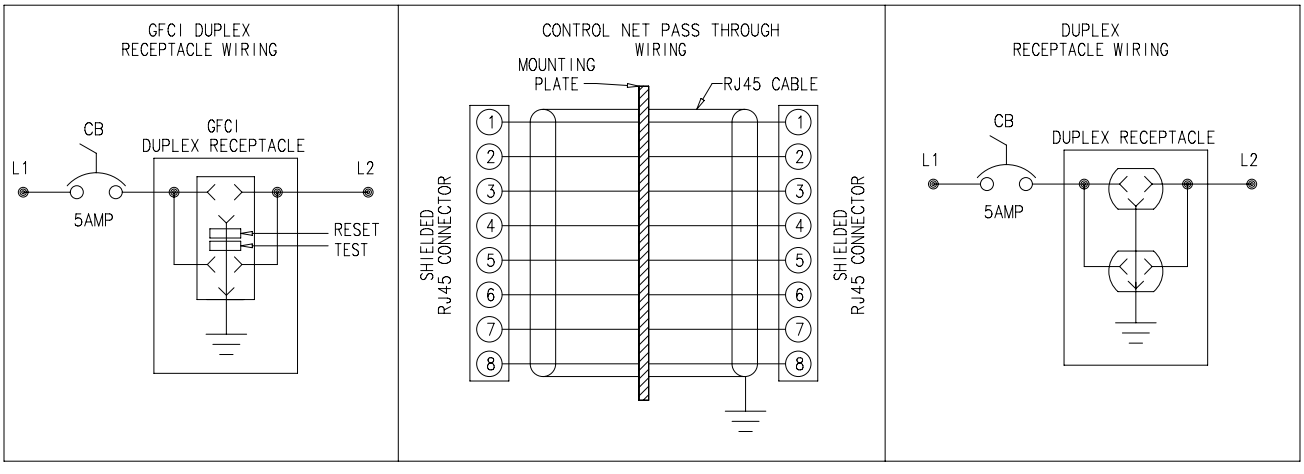
INTERSAFE DATA PORTS FOR CONTROLNET PROTOCOL

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



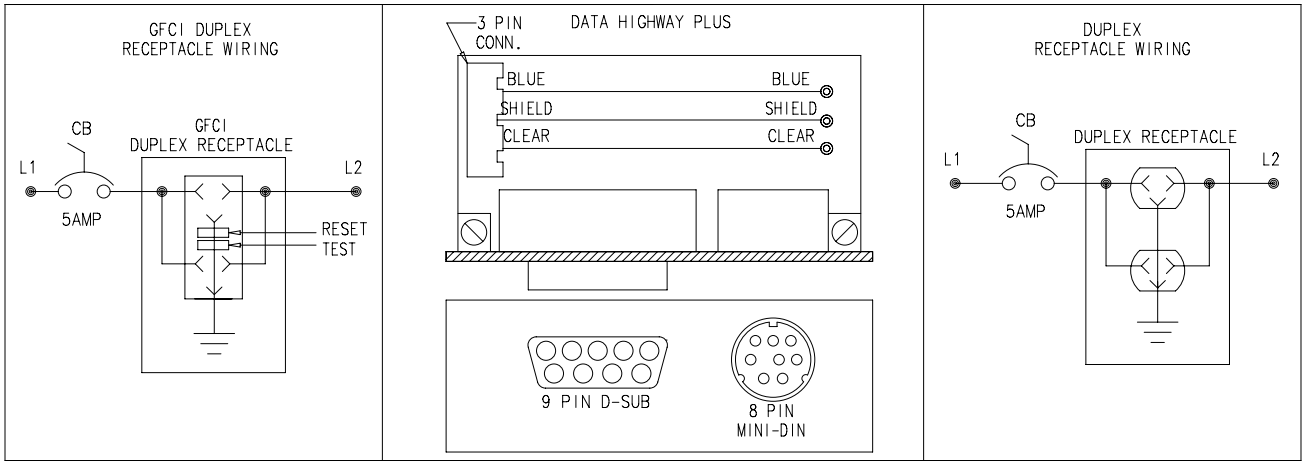
87929485

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



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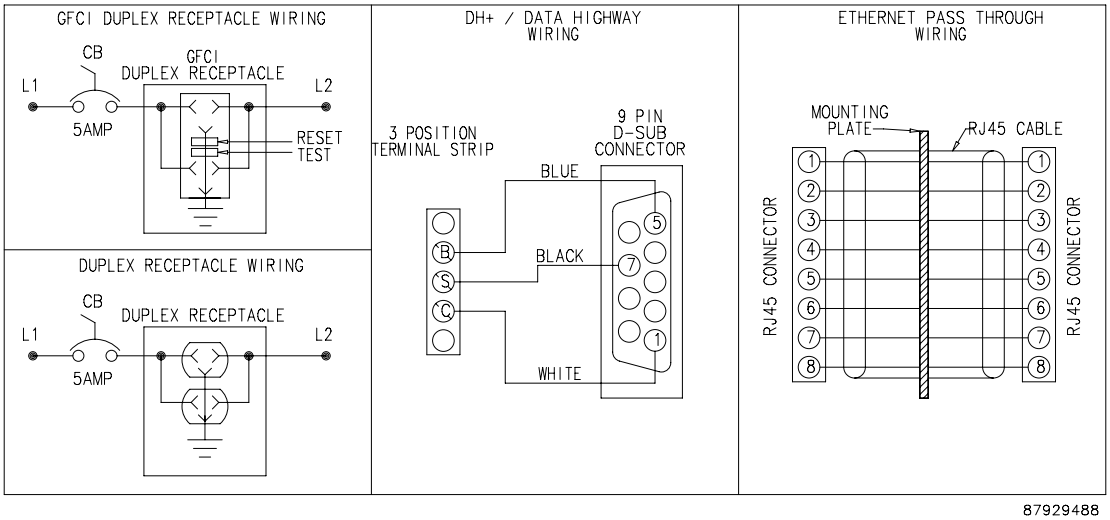
INTERSAFE DATA INTERFACE PORTS FOR DH+, MODBUS PLUS, ETHERNET PROTOCOL

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

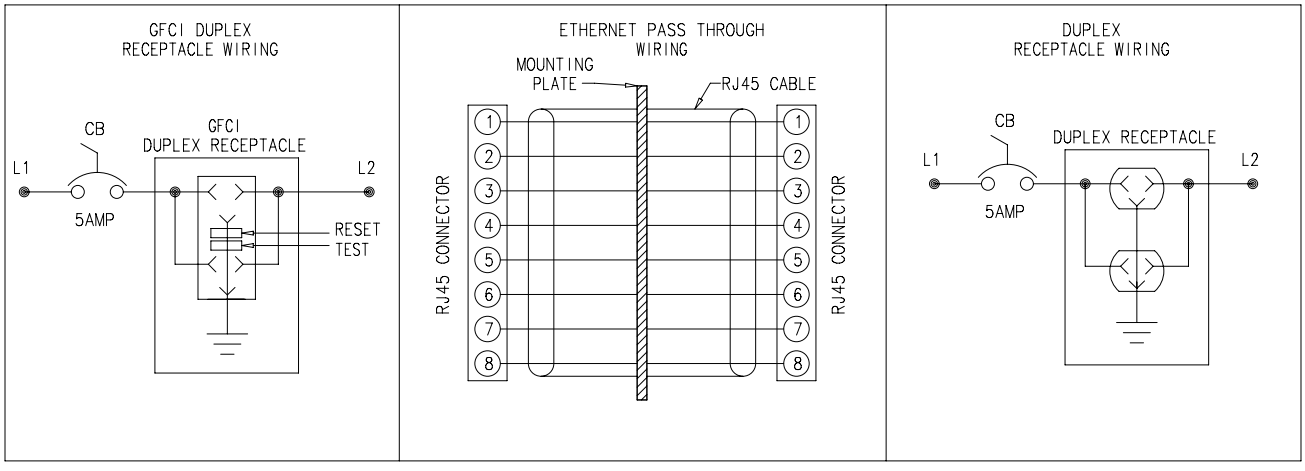


INTERSAFE DATA INTERFACE PORTS FOR ETHERNET PROTOCOL

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



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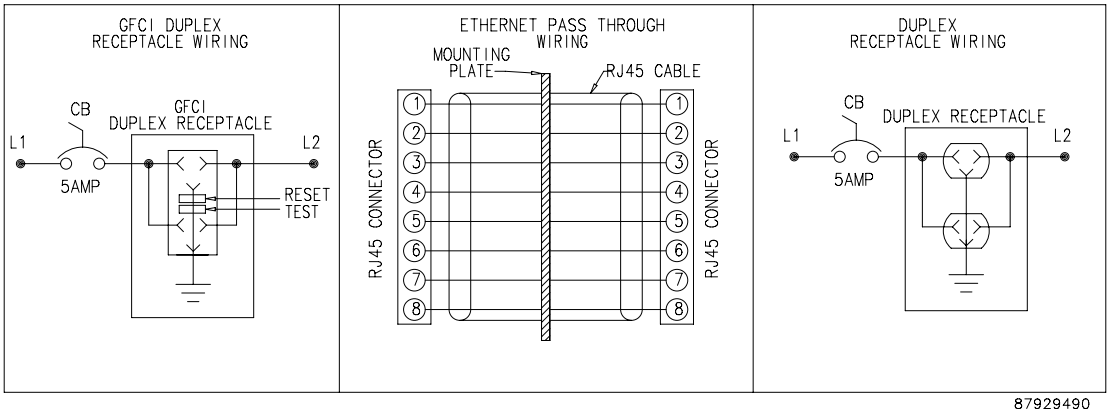
INTERSAFE DATA INTERFACE PORTS FOR ETHERNET/PROFINET PROTOCOL

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



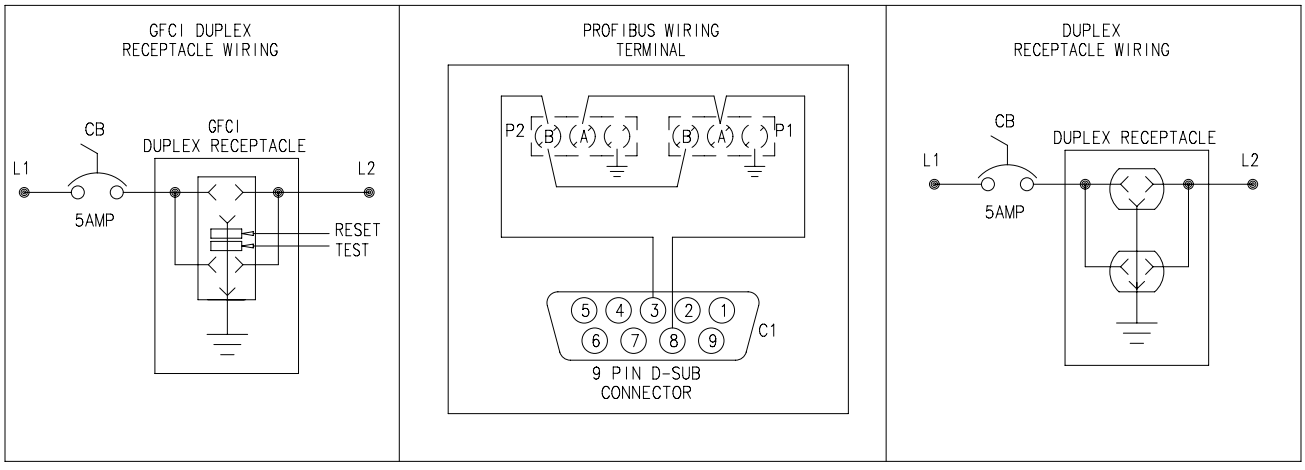
87929490

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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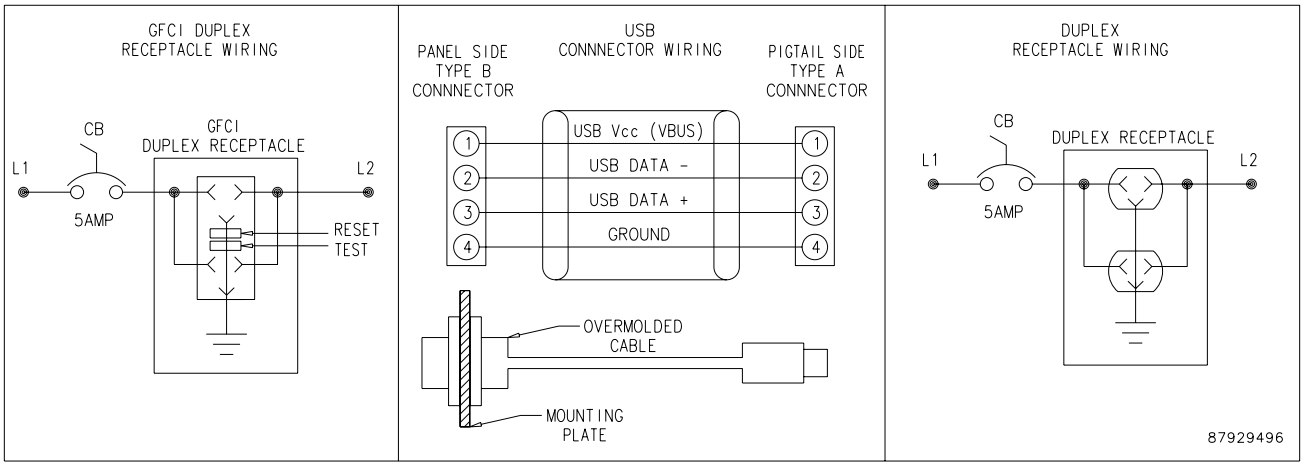
INTERSAFE DATA INTERFACE PORTS FOR USB PROTOCOL, 10-FT. CABLE

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

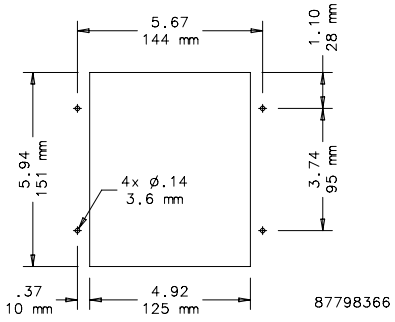


INTERSAFE TYPE 4/4X/12 DATA INTERFACE PORT DISK DRIVE ENCLOSURE

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



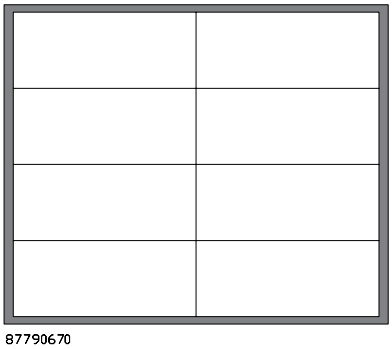
CUTOUT
(NOT TO SCALE)

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

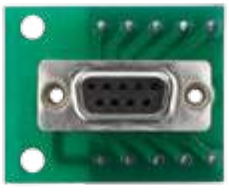
Left-hand image shows front view. Right-hand image shows rear view.

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

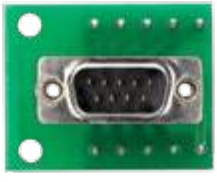
Left-hand image shows front view. Right-hand image shows rear view.

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

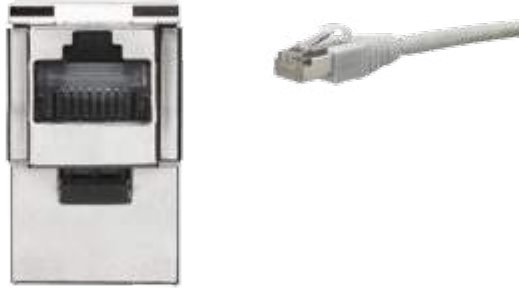
Left-hand image shows front view. Right-hand image shows rear view.

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

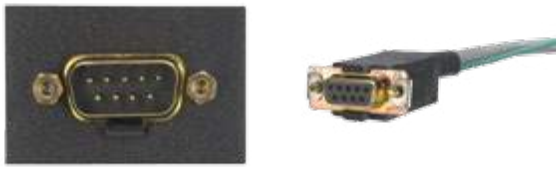
Left-hand image shows front view. Right-hand image shows rear view.

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

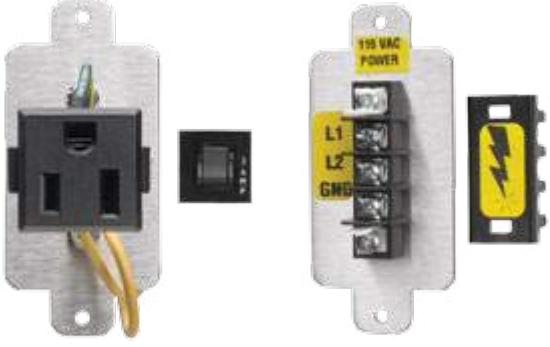
Left-hand image shows front view. Right-hand image shows rear view.

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

INDUSTRY STANDARDS

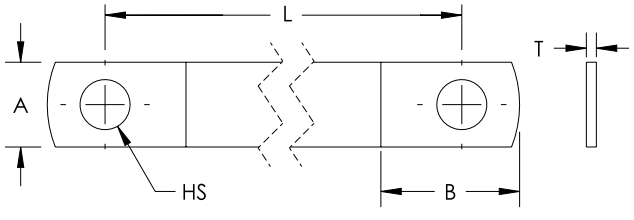
UL467 Listed: File No. E220029
cUL Listed per CSA C22.2 No. 41. File No. E220029

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.

FEATURES

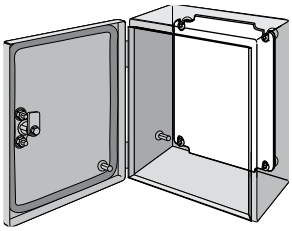
- Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance
- Resistant to vibration and fatigue, reducing maintenance
- Provides weight savings, material savings and lower impedance when compared to similar lugged cables with insulation
- Ready to use 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

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

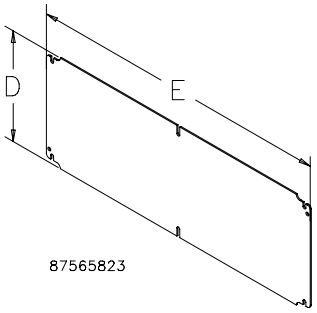
Catalog Number	Material	Panel Size D x E (mm)	Panel Size D x E (in.)	Fits INLINE Enclosure Size (mm)
LP1515	Painted Steel	131 x 131	5.16 x 5.16	150 x 150
LP1515G	Conductive	131 x 131	5.16 x 5.16	150 x 150
LP2015	Painted Steel	181 x 131	7.13 x 5.16	200 x 150
LP2015G	Conductive	181 x 131	7.13 x 5.16	200 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

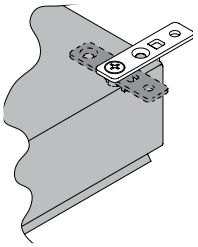
Panels are 12 gauge steel with a white polyester powder paint or conductive finish. They include a labeled ground hole sized for an M6 screw. Panels mount on studs provided in the enclosure or to optional DIN mounting brackets.

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

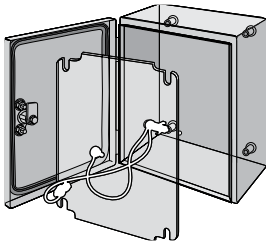
Wing Knob Latch can replace the standard slotted, quarter-turn latch on all hinged-cover and window-cover enclosures. Latch is black die-cast zinc. Includes two keys and installation instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLKWK	0.2 lb.

Reduces UL Type rating from 4 or 4X to 12.

GROUNDING KIT

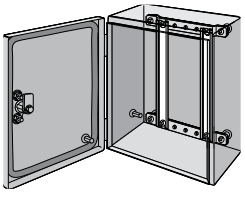


Grounding Kit provides means to attach a grounding conductor to the enclosure. Kit includes two insulated copper wires with a ring terminal at each end, all installation hardware and instructions.

BULLETIN: A54Y

Catalog Number	Product Weight
LLGK	0.2 lb.

DIN3 TYPE RAILS

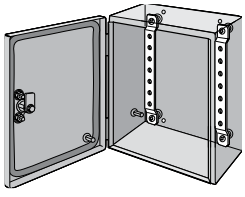


Rails furnish mounting surfaces for DIN3 mount snap-on devices. Rails attach vertically or horizontally to mounting brackets. Kit includes 4 rails and installation instructions. DIN3 Rail Mounting Brackets are required in order to mount rails.

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

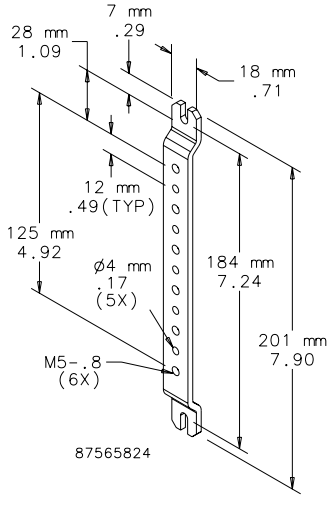


Use as a mounting framework to install DIN rails or a panel. Bracket is offset for additional space in front of or behind mounted equipment. Plated 12 gauge steel. Mounting hardware included. Brackets are required for DIN3 type rails.

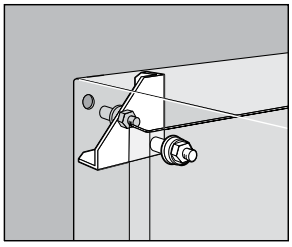
BULLETIN: A54Y

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)

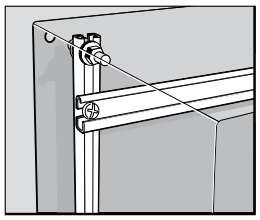
CONCEPT ADJUSTABLE-DEPTH MOUNTING KITS

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

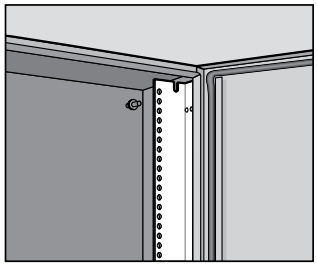


Mounting Channels provide mounting framework for installing DIN rails and grid straps at various positions within the enclosure. Channels can be mounted vertically or horizontally to collar studs or to the slide mechanisms of the adjustable-depth mounting kit. Kit includes two channels.

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

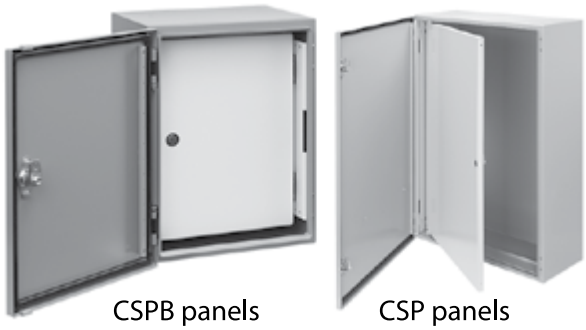
DIN3 RAIL KITS

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)

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

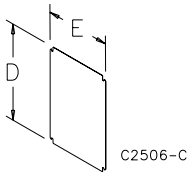
Catalog Number	Description
CLKTM7	Triangular 7-mm insert with key
CLKSM7	Square 7-mm insert with key
CLKDBM3	Double bit with key
CLKSLOT	Slotted Insert no key

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

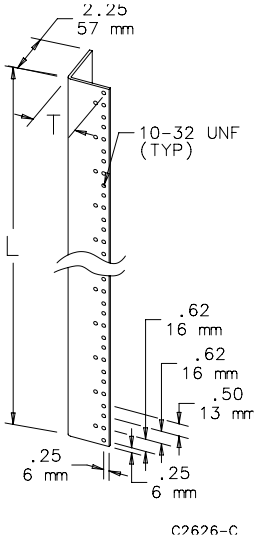
Full panels mount within the enclosure using seismic panel mounting kits. Panels are 12 gauge steel and are finished with white polyester power paint or a conductive, corrosion resistant coating.

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)



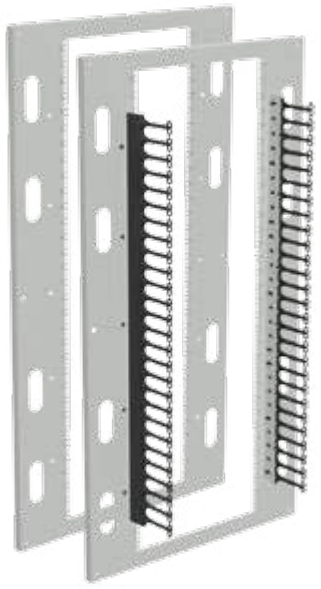
Pairs of full-length rack mounting angles are available for mounting 19-in. and 24-in. rack-mounted equipment. Type RP rack mounting angles are 10 gauge steel with mounting holes tapped #10-32 thread and spaced per EIA standard RS-310-D universal spacing. Angles and mounting hardware are plated. All 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



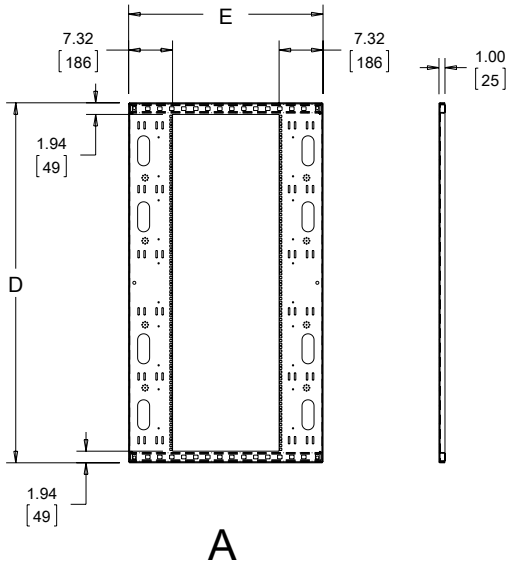
Used when converting a standard Free-Stand Enclosure to a Seismic Free-Stand Enclosure. Rack Panel allows rack-mount equipment to be installed in 36-in. wide enclosures. Seismic Rack Panel has EIA 310 specified square-holes (.375x.375) and larger openings to allow cables to pass through panel. Use with Seismic Panel Support Kits (included) and Seismic Mounting Plate Kits to obtain Seismic standards. Made from 12 gauge steel and painted RAL 7035.

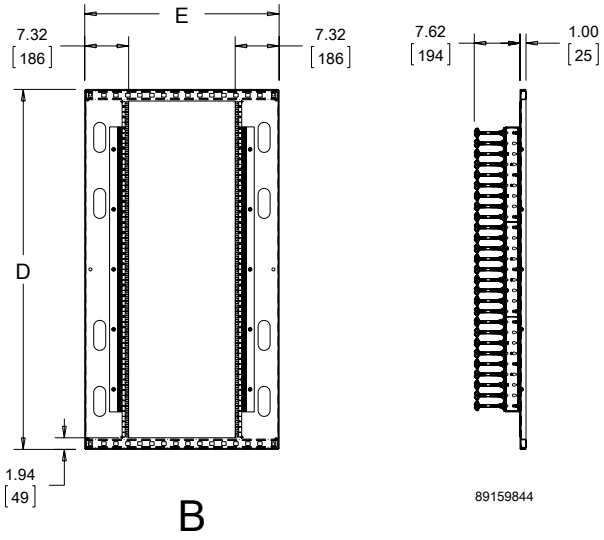
Available with or without vertical cable management for copper and fiber networking cables. Kit includes one (1) Seismic Rack Panel and two (2) Seismic Panel Supports with hardware.

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





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