Food & Beverage Solutions

Comprehensive Sanitary Enclosure Portfolio

To protect critical electrical equipment

HDW AFS ASR

For years, Food & Beverage application maintenance personnel have been forced to take extra, time-consuming steps to protect critical electrical equipment during washdown cleaning procedures – or risk product safety and production delays due to water intrusion and bacteria-harboring catch points.

These extra manual steps, including caulking, bagging and weather stripping, fatten lean processes and burden personnel. The industry needs better equipment – and nVent has delivered.

Rely on nVent HOFFMAN product solutions for the most comprehensive sanitary enclosure portfolio to protect your critical electrical equipment during washdown cleaning procedures. These solutions are specially engineered, so you can quickly and more easily preserve the integrity of sanitary conditions and equipment in the simplest to the most challenging environments.

Hygienic Design Best Practices

Hygienic equipment design principles

- Surface finish with roughness average of 0.8 μm or less
- Materials must be compatible with application
- Constructed with self-draining surfaces
- Installed so there is complete access during cleaning
- Withstand high-pressure and high-temperature cleaning maintenance

With today's complex global supply chain, a single food safety breach can affect millions of consumers worldwide.[1] As the world grows ever-more connected, the public, media and regulatory organizations around the globe are placing increasing scrutiny on the sanitary practices of Food & Beverage producers. At the same time, the potential safety risks and costs of recalls, liability, fines and long-term damage to brands are compelling companies to take additional steps to help safeguard consumer wellness, including intensifying washdown practices and using more concentrated chemical applications. In turn, these steps have driven strong demand for hygienic designs.

nVent continues to deliver innovative, unique equipment protection solutions to meet the needs of rigorous sanitary conditions. The nVent HOFFMAN product portfolio of sanitary solutions are designed to be easier to maintain and reduce the risk of foreign materials entering the food being processed. These specially engineered enclosures for sanitary washdown cleaning procedures incorporate these hygienic design principles:

- Meet stringent industry standards – including UL Type 4X, IP66 and IP69 ratings – for preventing liquid ingress and resisting corrosion.
- Provide a door seal that can be easily maintained and replaced, if necessary.
- Robustly capable of surviving high temperature, high pressure cleaning operations.
- Reliably maintain functionality after repeated cleaning cycles.

nVent HOFFMAN Product Solutions for Food and Beverage Industry

HDW: High-level protection

Engineered for ultimate protection, the state-of-the-art HDW range of enclosures are the among the industry's highest-rated total sanitary washdown enclosure solution. HDW enclosures help protect equipment in clean-in-place and harsh sanitary washdown applications, and are ideally suited for on-machine controls and areas with large temperature swings.

The entire HDW portfolio meets the industry's highest standards for high pressure, high temperature cleaning procedures, including IP69 (IEC), and Type 4X, 12 and 13.

The HDW portfolio includes 10 wall mounted enclosures (HDW) and six terminal boxes (HDTB), as well as a variety of IP69-rated accessories.

PROMOTES LONGER LIFECYCLES FOR CONTROLS AND DRIVES

- Watertight seal and corrosion resistance improve safety of critical controls and drives

WIPES OUT CATCH POINTS FOR BACTERIA TO GROW, AND RESISTS CORROSION

- 30° sloped top (HDW); 3° sloped sides (HDTB)
- Replaceable blue FDA-grade silicone gasket
- Complete 304 stainless steel construction and hardware
- Streamlined hygienic design

SPEEDS AND SIMPLIFIES MAINTENANCE

- Eliminates extra manual steps before and after washdown
- FDA-grade silicone gasket is easy to replace, clean, maintain and install
- Crevice-free latches

AFS: Medium-level protection

The AFS enclosure portfolio helps protect electrical equipment in sanitary washdown applications, and is ideally suited for food processing areas. WaterShed is specially designed to facilitate washdown runoff, and meets IP66 and Type 4X and 12 standards for protection against mild washdown and chemical contact.

The AFS portfolio features 18 sizes and a variety of recommended accessories.

FACILITATES WASHDOWN RUNOFF

- Sloped top
- No pre-tapped mounting holes to maximize cleanliness
- No gland plate openings as standard to maximize sealing and cleanliness

EASY-TO-CLEAN AND AESTHETIC DESIGN

- Foam-in-place gasket
- Folded and seam welded body
- Concealed door hinges with captive pin

SUPERIOR CORROSION RESISTANCE

- 304 stainless steel construction

ASR: Basic-level protection

The ASR enclosure portfolio helps protect equipment in minimal washdown applications, and is ideally suited for areas with no food contact. ASR enclosures meet IP66 and Type 4X and 12 standards for basic protection from water and chemicals.

The ASR portfolio features 22 sizes and a variety of recommended accessories.

EASE OF MAINTENANCE

- Tool-less clip-style hinge pins
- No pre-tapped mounting holes to maximize cleanliness
- No gland plate openings as standard to maximize sealing and cleanliness

AESTHETICALLY DESIGNED

- Foam-in-place gasket
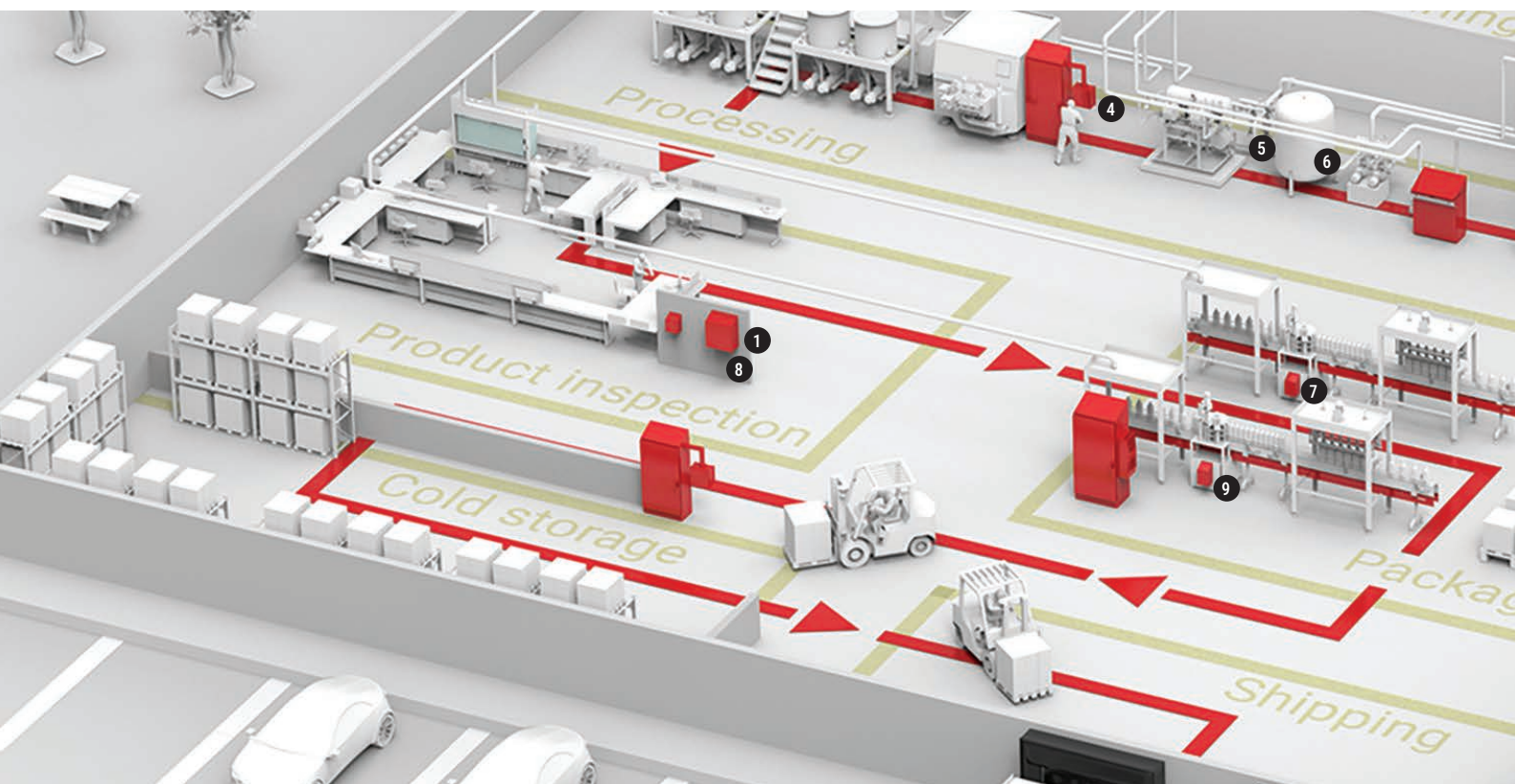
SUPERIOR CORROSION RESISTANCE

- 304 stainless steel construction

To learn more about the complete portfolio of nVent HOFFMAN sanitary washdown solutions, contact your nVent HOFFMAN representative or distributor.
You can also visit: nVent.com/HOFFMAN

Protection for Every Level

ENCLOSURES

1. ASR and SSTB Enclosures

Ideally suited to protect equipment in minimal washdown applications.

Certifications and Standards:
IP66, UL 508A & cULus,
Type 4X & 12

2. AFS Enclosures

Ideally suited to protect equipment in clean-in-place and harsh sanitary washdown applications.

Certifications and Standards:
IP66, UL 508A & cUL,
Type 4X & 12

3. HD Enclosures (HDW, HDTB)

Ideally suited to protect equipment in clean-in-place and harsh sanitary washdown applications. Available in wall mount and terminal box models.

Certifications and Standards:
IP66, IP69, UL 508A & cULus,
Type 4X & 12

HMI/OI

4. SS Suspension System

Suspension system designed to protect HMI devices in high-pressure, high-temperature washdown environments.

Certifications and Standards:
UL 508A & cUL Type 4X, 4, 12, IP66

THERMAL MANAGEMENT

5. H2Omit Dehumidifier

Removes moisture from air within enclosure to protect components from condensation.

Certifications and Standards:
UL 508A & cUL, CE

6. H2Omit Vent Drain

Allows water to drain from enclosure bottom to reduce harmful effects of temperature-induced vacuums that could pull water and moisture inside.

Certifications and Standards:
UL 508A & cUL, CE, UL 508A & cUL Type 4X, 4, IP66

7. Extreme AC

Specially designed from the inside out for durability and performance, the air conditioners feature an FDA-approved neoprene gasket, a fully sloped shroud to reduce liquid and particulate collection and bacteria growth, and durable stainless-steel components, all of which help reduce downtime and replacement costs.

Certifications and Standards:
 UL Type 4X, IEC IP66 and IP69

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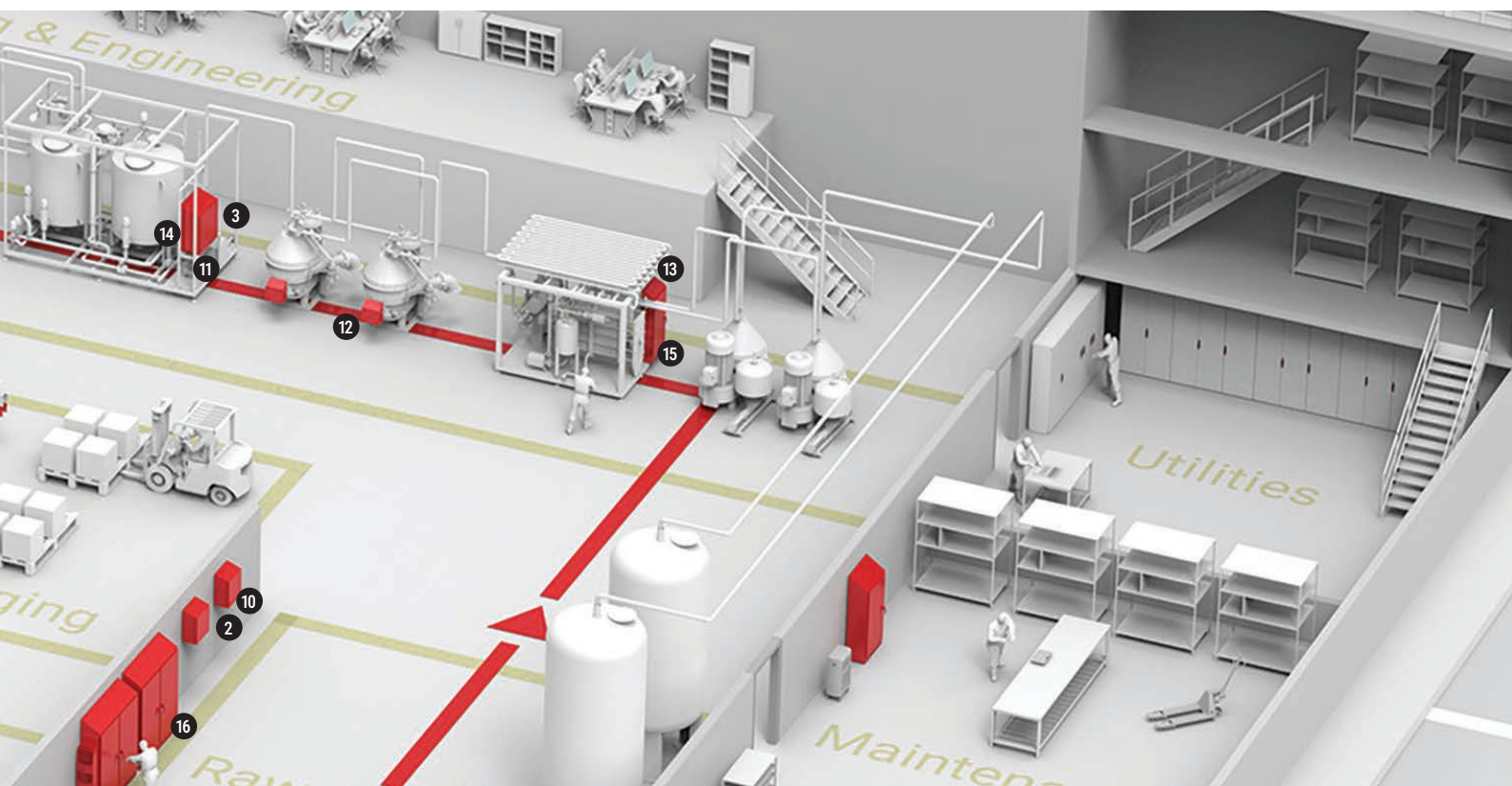
THERMAL MANAGEMENT

8. Thermoelectric Cooler

Removes heat around critical components within an enclosure.

Certifications and Standards:
UR & cUR Type 4x, 4, 3R, 12, IP65, CE

9. Vortex

Keeps enclosures cool, clean and protected even in the harshest environments - ideal in space-restrictive areas where compressed air is readily available. Available in Type 12 and Type 4/4X models.

Certifications and Standards:
UL 508A & cUL Type 4X, 4, IP54, IP66

HD ACCESSORIES

10. AWHD - Wall Mounting Brackets

Provides a space between the enclosure and wall to facilitate cleaning operations. Includes sealing washers to ensure the IP rating.

11. LFHD - Leveling Feet

Adjustable feet for leveling enclosures placed on uneven ground. Reduce cleaning time thanks to fully covered and sealed threads.

HD ACCESSORIES

12. CGHD - Cable Glands

Hygienic design cable fittings provide excellent strain relief and high protection class.

13. ECHD - Protective Fan Cover

Helps protect filter fans in wash down environments against water ingress. The cover can be easily removed for maintenance operations and gasket replacement, and also can be opened to a 35° angle for easy filter cleaning. The sloped-top cover prevents liquids and other debris from pooling. Folded and seam welded.

14. HDSW - Door Switch

Door switch to activate any electrical device (lighting, signaling, alarms, etc.), designed for HDW range of wall mounted enclosures.

15. Replacement Gaskets

FDA-grade silicone gaskets are easy to replace, clean, maintain and install. Foam-in-place gaskets also available.

16. Handles

Alternative handles to replace the standard HD lock.