



Hoffman[®]

FOOD AND BEVERAGE

DESIGN WITH CONFIDENCE[™]

PENTAIR EQUIPMENT PROTECTION

SANITARY APPLICATIONS

SANITARY PRACTICES

UNDER THE MICROSCOPE

With the passing of the Food Safety Modernization Act (FSMA) in early 2011, there is increasing scrutiny being placed on product safety and contamination issues. Public, media, and regulatory attention has focused squarely on the sanitary practices of food and beverage producers. The potential costs of recalls, liability, fines, and long-term damage to brands have compelled companies to take additional steps to ensure consumer wellness. This has resulted in intensified washdown practices including greater frequency with higher wash pressures and temperatures, and more concentrated chemical applications that require differentiated, unique equipment protection solutions.



THE SAFE CHOICE TO MITIGATE RISKS

For over 50 years, the top food and beverage brands have turned to Hoffman® for protecting vital processing controls and electrical systems:

- Enclosure and wireway solutions that address the unique demands of sanitary manufacturing and packaging environments
- Innovations developed by working directly with the food and beverage industry, including the patented line of Hoffman Watershed™ stainless steel washdown enclosures, Hoffman Syspend™ sanitary HMI solutions, and The Hoffman H₂Omit™ condensation management solution
- Easy-to-install Hoffman CleanTray™ Type 1 stainless steel cable tray designed to protect rated cables, ideal for high-speed beverage lines; includes sloped-cover models with a perforated bottom for the sanitary washdown environment
- Hundreds of other equipment protection solutions including the industry's largest selection of Type 304 and Type 316 stainless steel enclosures, accessories, and UL® Type 4X certified solutions



ONLY HOFFMAN® WATERSHED™ ENCLOSURES MEET NSF® CERTIFICATION REQUIREMENTS



A PATENTED COMBINATION OF CRITICAL SANITARY FEATURES AND INNOVATIVE DESIGN

Hoffman Watershed enclosures provide superior protection for process controls in harsh washdown environments, while minimizing potential contamination catch points. Featuring a unique patented design, Watershed is the only enclosure offering that meets the stringent sanitary certification requirements of NSF International. The combination of the sloped top and the angled door flange significantly reduces areas where liquids can pool and bacteria can form.

KEY FEATURES

- Over 40 standard sizes in free-standing and wall-mount models
- Easy-to-clean design
 - NSF certified
 - Lift-off bullet hinges
 - Sanitary leg kits
 - Sanitary stand-off kits
- Helps eliminate bacteria harboring opportunities
 - 20-degree sloped top
 - Sloped-door flange with trough collar shielded bullet hinge and seamless gasket
 - Beveled-door edges
- Premium corrosion resistance
 - Stainless steel latching and hardware
 - Stainless steel Hoffman Power Glide™ handle; UL 4X rated
 - Continuous foam-in-place gasket
 - Manufactured from 304 stainless steel

ACCESSORIES



Stand-off kit for wall-mount enclosures

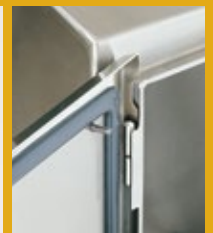


Sanitary leg kit; contact area with floor is less than one square-inch per leg

FEATURES



UL 4X rated, stainless steel Power Glide handle









Sloped-door flange with trough collar, shielded bullet hinge and seamless gasket



Over 40 standard sizes in free-standing and wall-mount models

HOFFMAN SANITARY SOLUTIONS

PROTECTION PRODUCTS MADE TO SPECIFICALLY ADDRESS THE UNIQUE SANITARY REQUIREMENTS OF THE FOOD AND BEVERAGE INDUSTRIES

Category	NSF-CERTIFIED ENCLOSURES		
Product Line	Watershed WS1 Type 4X Wall-Mount	Watershed WS1D Type 4X Wall-Mount Disconnect	Watershed WS2 Type 4X Free-Standing
			
Size Range	(Inches): 16 x 12 x 8 to 60 x 36 x 16	(Inches): 24 x 25 x 8 to 60 x 37 x 16	(Inches): 62 x 51 x 12 to 74 x 75 x 24
Standard Features	<p>Unique Type 4X stainless steel enclosure specifically designed for protecting electrical or high-tech electronic equipment in washdown environments</p> <ul style="list-style-type: none"> • Sloped top eliminates accumulation of liquids, dust, dirt and objects from top • Sloped top and bottom door flanges prohibit liquid pooling • Internal sloped body flange at top body opening diverts liquids and contaminants • Concealed lift-off hinges allow easy door removal and facilitate cleaning • Door opens 170 degrees to access components • 304 stainless steel quarter-turn slotted inserts provide aesthetic appearance and provide easy access and closure • M6 bonding provisions on body and door • Seamless foam-in-place gasket • Standoff mounting and handle accessories • Smooth #4 finish 	<p>Robust, uniquely designed stainless steel disconnect enclosure for challenging washdown areas</p> <ul style="list-style-type: none"> • Right side body flange accepts most major disconnect manufacturer handles and operating hardware • Sloped top eliminates accumulation of liquids, dust, dirt and objects from top • Sloped top and bottom door flanges prohibit liquid pooling • Internal sloped body flange at top body opening diverts liquids and contaminants • Concealed lift-off hinges allow easy door removal and facilitate cleaning • Door opens 170 degrees to access components • 304 stainless steel quarter-turn slotted inserts provide aesthetic appearance and provide easy access and closure • M6 bonding provisions on body and door • Seamless foam-in-place gasket • Standoff mounting and handle accessories • Smooth #4 finish 	<p>Large free-standing enclosures with all of the sanitary feature sets as our wall-mount models</p> <ul style="list-style-type: none"> • Sloped top eliminates accumulation of liquids, dust, dirt and objects from top • Internal sloped body flanges at top body openings divert liquids and contaminants • Sloped top and bottom door edges prohibit liquid pooling • Patented 316 stainless steel padlocking handles and 3-point latching • Heavy-duty 316 stainless steel lifting eyes • Concealed lift-off hinges allow door removal and facilitate cleaning • Accessory mounting channel inside top of enclosure • Bonding provisions on body and doors • Seamless foam-in-place gasket • Sanitary leg kits available • Smooth #4 finish
Typical Applications	<p>Protecting equipment in sanitary washdown and corrosive production environments</p> <ul style="list-style-type: none"> • Food and beverage production • Packaging • Pharmaceutical processing • Outdoor environments and corrosive applications 	<p>Safely houses disconnect switches and circuit breakers in washdown and other production environments</p> <ul style="list-style-type: none"> • Food and beverage production • Packaging • Pharmaceutical processing • Outdoor environments and corrosive applications 	<p>Protecting electrical and electronic equipment in sanitary washdown and other production environments</p> <ul style="list-style-type: none"> • Food and beverage production • Packaging • Pharmaceutical processing • Outdoor environments and corrosive applications
Ratings	<p>UL and cUL Type 4, 4X, 12 IP66, NSF Criteria C-2</p> 	<p>UL and cUL Type 4, 4X, 12 IP66, NSF Criteria C-2</p> 	<p>UL and cUL Type 4, 4X, 12 IP66, NSF Criteria C-2</p> 



WIREWAY

Watershed WS2D Type 4X Wall-Mount Disconnect



(Inches): 62 x 51 x 12 to 74 x 75 x 24

Rugged, stainless steel free-standing disconnect enclosure for mounting disconnect devices in outdoor or indoor washdown or wet environments

- Right side body flange accepts most major disconnect manufacturer handles and operating hardware
- Sloped top eliminates accumulation of liquids, dust, dirt and objects from top
- Sloped top and bottom door flanges prohibit liquid pooling
- Internal sloped body flanges at top body openings divert liquids and contaminants
- Patented 316 stainless steel padlocking handles and 3-point latching
- Heavy-duty 316 stainless steel lifting eyes
- Master door handle comes with internal defeater standard
- Mechanical door to door interlock operated by master door
- Concealed lift-off hinges allow door removal and facilitate cleaning
- Accessory mounting channel inside top of enclosure
- Bonding provisions on body and doors
- Seamless foam-in-place gasket
- Sanitary leg kits available
- Smooth #4 finish

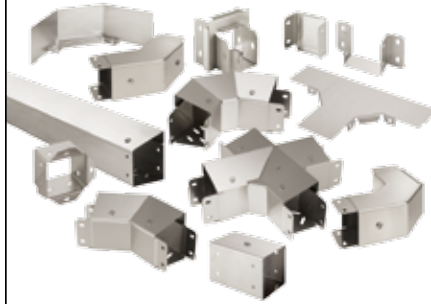
Safely houses disconnect switches and circuit breakers in washdown and other production environments

- Food and beverage production
- Packaging
- Pharmaceutical processing
- Outdoor environments and corrosive applications
- Water treatment

UL and cUL Type 4, 4X, 12
IP66, NSF Criteria C-2



CleanTray F23 Stainless Steel Cable Tray



(Inches): 2 x 2 x 120 to 6 x 6 x 120

Stainless steel cable tray system with sloped-cover options for conveying applications

- Flat or 20 degree sloped covers
- Solid or perforated body options for better drainage
- Open (lay-in) wire design
- Easy to use quarter-turn fasteners
- Self-aligning tabs for easy installation
- Internal barriers available to separate cables
- Transition components to go from flat to sloped cover
- Connecting hardware with each component
- Smooth brushed finish

Protecting rated cabling from dust, water and debris in washdown and other challenging environments

- Bottling facilities
- Conveying equipment with rated cable
- Outdoor environments and corrosive applications

UL Type 1

F22 UL4X Stainless Steel Wireway



(Inches): 4 x 4 x 12 to 6 x 6 x 120

Durable heavy gauge feed-through Type 4X wireway for washdown areas

- Multiple fittings and connectors for layout flexibility
- Feed-through wire design
- Type 4 rated gaskets and sealing
- Heavy 10-gauge connecting flanges
- Screw-down clamps to secure and maintain seal
- Connecting hardware and gasket supplied with each component
- Protective plastic film doubles as marking template for modifications
- #2 finish with no brushing





Protecting electrical wiring in wet, corrosive areas and regularly hosed-down environments

- Food and beverage facilities
- Production equipment with rated cable wire management mounted directly to machines
- Outdoor environments and corrosive applications

UL 870 Type 4, 4X, 12
CSA File Number 42184 Type 1

HOFFMAN SANITARY SOLUTIONS

PROTECTION PRODUCTS MADE TO SPECIFICALLY ADDRESS THE UNIQUE SANITARY REQUIREMENTS OF THE FOOD AND BEVERAGE INDUSTRIES

Category	FREE-STAND ENCLOSURES		WALL-MOUNT ENCLOSURES	
Product Line	A28S4 Disconnect with Powerglide™ Handle	A21S4 Disconnect with Powerglide Handle	CWS Concept™ & CWSD Concept Disconnect	A54S SS Inline™
				
Size Range	(inches): 72 x 28 x 18 to 90 x 119 x 24	(inches): 60 x 48 x 12 to 72 x 73 x 24	CWS (inches): 12 x 12 x 6 to 72 x 36 x 16 CWSD (inches): 20 x 22 x 8 to 60 x 38 x 12	(mm): 150 x 150 x 120 to 350 x 300 x 200 Landscape versions to (mm): 230 x 930 x 155
Standard Features	<p>Heavy-duty free-standing Type 4X enclosures for flange-mounted disconnects</p> <ul style="list-style-type: none"> • One- through 5-doors available including 90" high in most configurations • Right hand flange disconnect versions accept most major disconnect manufacturer handles and operating hardware • Patented 316 stainless steel padlocking handles and 3-point latching • Master door handle comes with internal defeater standard • Mechanical door to door inter-lock operated by master door • Heavy-duty 316 stainless steel lifting eyes • Accessory mounting channel inside top of enclosure • Bonding provisions on body and doors • Seamless foam-in-place gasket • Painted white internal panels supplied with enclosure • Smooth #4 finish 	<p>Two-door stainless steel enclosures for flange- or centerpost-mounted disconnects</p> <ul style="list-style-type: none"> • Right hand flange and centerpost disconnect versions accept most major disconnect manufacturer handles and operating hardware • Patented 316 stainless steel padlocking handles and 3-point latching • Master door handle comes with internal defeater standard • Mechanical door to door inter-lock operated by master door • Heavy-duty 316 stainless steel lifting eyes • 15" high floor stands standard • Accessory mounting channel inside top of enclosure • Bonding provisions on body and doors • Seamless foam-in-place gasket • Smooth #4 finish 	<p>Aesthetic, flush-door design with Type 4X rating</p> <ul style="list-style-type: none"> • Aesthetic flush door to body design • Concealed hinges • Door opens over 180 degrees to access components • M6 bonding provisions on body and door • Seamless foam-in-place gasket • Smooth #4 finish <p>CWS specific:</p> <ul style="list-style-type: none"> • Window door versions available <p>CWSD specific:</p> <ul style="list-style-type: none"> • Right side body flange accepts most major disconnect manufacturer handles and operating hardware • Hoffman's integrated door handle with defeater provided • 2- or 3-point latching system on inside of door connected to handle 	<p>Aesthetic instrumentation and junction enclosures for corrosive environments</p> <ul style="list-style-type: none"> • Metric dimensions • European aesthetic design—flush door to body • 316 stainless steel quarter-turn latching • Hidden hinges with removable hinge pins open 180 degrees • Knife-edge body opening trough to divert liquids and contaminants • M6 bonding provisions on body and door • Window door models • Screw cover models • Seamless foam-in-place gasket • Smooth #4 finish • Hinged cover with non-metallic handle available
Typical Applications	<ul style="list-style-type: none"> • Food and beverage production • Packaging • Pharmaceutical processing • Outdoor environments and corrosive applications • Water treatment 	<ul style="list-style-type: none"> • Food and beverage production • Packaging • Pharmaceutical processing • Outdoor environments and corrosive applications • Water treatment 	<ul style="list-style-type: none"> • Food processing plants • Packaging • Pharmaceutical processing • Petrochemical plants • Pulp and paper processing • Water treatment 	<ul style="list-style-type: none"> • Packaging • Pharmaceutical processing • Fieldbus enclosure • Outdoor environments and corrosive applications • Water treatment
Ratings	UL and cUL Type 4, 4X, 12 IP66, NSF Criteria C-2	UL and cUL Type 3R, 4, 4X, 12 IP66, NSF Criteria C-2	CWS : UL Type 3R, 4, 4X, 12 CSA Type 4, 4X, 12 IP66 CWSD: UL Type 3R, 4, 4X, 12 cUL Type 3R, 4, 4X, 12 IP66	CSA and UL Type 4, 4X, 12 IP66, Windows – IP55



COOLING PRODUCTS

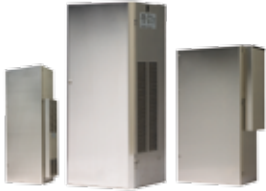
HMI/OI

**Proair™
Air Conditioners**

**H2Omit™
Condensation Management Solution**

Thermoelectric Cooler

**Syspend™
Sanitary HMI**



(Inches): 23 x 10 x 9 to 43 x 16 x 10
(mm): 584 x 254 x 222 to 1100 x 400 x 260

Dehumidifier: (Inches): 6 x 6 x 6
Vent Drain: (Inches): 1.38 dia. x 2

(Inches): 9 x 5 x 7 to 16 x 7 x 7
(mm): 236 x 128 x 176 to 400 x 180 x 184

(mm): 300 x 300 to 500 x 600
Depths of (mm): 150 and 200

Harsh environment / washdown air conditioners

Complete enclosure condensation and moisture removal system

Compact, low-profile Peltier-effect coolers for small indoor and outdoor enclosures

Sanitary IP69K and Type 4X HMI solution with HMI suspension up to 90 lbs.

- 3 cooling capacities: 1600 BTU/Hr, 2200-4000 BTU/Hr, 6000-8000 BTU/Hr
- Engineered to seal out high pressure hose water and withstand corrosive atmospheres
- Indoor and outdoor models
- Stainless steel or galvanized sheet metal construction options
- Robust reciprocating compressor
- R134a or R407c earth-friendly refrigerant and RoHS compliant
- Models for 115, 230 and 460 single phase AC power input
- Operating temperature range from -40 C (-40 F) to 55 C (131 F)
- Cleanable reusable aluminum mesh filter

- Thermoelectric Dehumidifier:
- Removes moisture from the air inside an enclosure
 - Built-in drain provision with plastic hose collects moisture and directs it to the vent drain
 - High-impact ABS shell
 - 24-volt DC operation for use worldwide
- Vent Drain:
- Equalizes pressure within the enclosure
 - Eliminates moisture through one-way drain
 - Mechanical shut-off blocks water entry from the outside
 - 1/2 inch thread size
 - Available in stainless steel sleeve or corrosion resistant polyester models
 - Maintains UL4/4X enclosure type rating

- Condenser-, compressor- and filter-free design for reliable, low-maintenance operation
- 60, 100, and 200 W of cooling
- Indoor or outdoor applications
- Ideal for demanding and small-space environments
- Prewired with simple terminal block
- 24-volt DC and 48-volt DC
- Contains no refrigerant; earth friendly
- 65- 68 dBA low noise operation
- Can be configured to heat instead of cool
- Shrouded and unshrouded models
- Operating temperature range -40 C (-40 F) to 55 C (131 F)

- Modular slope-top design, with multiple tube lengths and straight, L and U-shaped tubes, allows for application versatility
- Straight and curved tube lengths from 250 mm to 1500 mm
- 330° rotation of joints for easy repositioning
- SYSPEND-LOK fittings attach without set screws to minimize bacteria catch points, providing a secure installation with leveling capability
- Full range of enclosure modifications are available

- Food and beverage production
- Package handling equipment
- Industrial automation
- Water treatment

- Food and beverage production
- Packaging
- Pharmaceutical processing
- Outdoor environments and corrosive applications
- Water treatment

- Food and beverage production
- Packaging
- Pharmaceutical processing
- Outdoor environments
- Water treatment
- Telecommunications

- Food and beverage production
- Packaging
- Pharmaceutical processing

UL and cUL Type 12, 3R, 4; 4X optional
UR and cUR Recognized on select models

(Vent Drain)
UL 508A Listed: Type 4, 4X
cUL CSA 22.2 Type 4, 4X
NEMA/EEMAC Type 4, 4X (Dehumidifier)
UL 508A Listed
cUL Listed
CE

UR, cUR Recognized: Type 12, 3R, 4, 4X
CE
IP65

UL Type 4X, IP69K

FOR MORE INFORMATION: HOFFMANONLINE.COM



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EQUIPMENT PROTECTION SOLUTIONS

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