CONNECT AND PROTECT

Food and Beverage
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 nVent 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 2.5 cm² per leg
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**

<table>
<thead>
<tr>
<th>Category</th>
<th>NSF-certified Enclosures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WaterShed WS1 Type</td>
</tr>
<tr>
<td></td>
<td>4X Wall-Mount</td>
</tr>
<tr>
<td></td>
<td>WaterShed WS1D Type</td>
</tr>
<tr>
<td></td>
<td>4X Wall-Mount Disconnect</td>
</tr>
<tr>
<td></td>
<td>WaterShed WS2 Type</td>
</tr>
<tr>
<td></td>
<td>4X Free-Standing</td>
</tr>
</tbody>
</table>

| Size Range                | 400x300x200 to 1500x900x400 (mm) | 600x625x200 to 1600x1000x400 [mm] | 1500x600x300 to 2000x1900x600 [mm] |

| Standard Features         | Unique Type 4X stainless steel enclosure specifically designed for protecting electrical or high-tech electronic equipment in washdown environments |
|                          | • 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 |
|                          | • Brushed finish 240 grit |

| Features                  | Robust, uniquely designed stainless steel disconnect enclosure for challenging washdown areas |
|                          | • 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 |
|                          | • Brushed finish 240 grit |

| Features                  | Large free-standing enclosures with all of the sanitary feature sets as our wall-mount models |
|                          | • Sloped top eliminates accumulation of liquids, dust, dirt and objects from top |
|                          | • Internal sloped body flanges at top body openings diverts 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 |
|                          | • Brushed finish 240 grit |

| Applications               | Protecting equipment in sanitary washdown and corrosive production environments |
|                          | • Food and beverage production |
|                          | • Packaging |
|                          | • Pharmaceutical processing |
|                          | • Outdoor environments and corrosive applications |

| Applications               | 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 |

| Applications               | Protecting electrical and electronic equipment in sanitary washdown and other production environments |
|                          | • Food and beverage production |
|                          | • Packaging |
|                          | • Pharmaceutical processing |
|                          | • Outdoor environments and corrosive applications |

| Ratings                   | UL and cUL Type 4, 4X, 12 |
|                          | IP66, NSF 169 (Criteria C-2) |

| Ratings                   | UL and cUL Type 4, 4X, 12 |
|                          | IP66, NSF 169 (Criteria C-2) |

| Ratings                   | UL and cUL Type 4, 4X, 12 |
|                          | IP66, NSF 169 (Criteria C-2) |
### WaterShed WS2D Type
#### 4X Wall-Mount Disconnect
- **Applications:**
  - Outdoor environments and corrosive environments
  - Pharmaceutical processing
  -包装
  - Food and beverage production
  - 打包
  - 其他生产环境

- **Features:**
  - Brushed finish 240 grit
  - Standoff mounting and handle
  - Seamless foam-in-place gasket
  - M6 bonding provisions on body
  - Door opens 170 degrees to access components
  - Accessory mounting channel inside top and door
  - Concealed lift-off hinges allow easy body opening removal and facilitate cleaning
  - Internal barriers available to separate cables
  - Transition components to go from flat to sloped cover
  - Connecting hardware with each component
  - Patented 316 stainless steel padlocking system for mounting disconnect models

- **Rating:**
  - IP66, NSF 169 (Criteria C-2)
  - UL and cUL Type 4, 4X, 12

### CleanTray F23 Stainless Steel Cable Tray
- **Applications:**
  - Outdoor environments and corrosive environments
  - Food and beverage facilities
  - Conveying equipment with rated cable
  - Bottling facilities

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

- **Rating:**
  - CSA File Number 42184 Type 1
  - UL 870 Type 4, 4X, 12

### F22 UL4X Stainless Steel Wireway
- **Applications:**
  - Outdoor environments and corrosive environments
  - Food and beverage facilities
  - Regularly hosed-down environments
  - Water treatment

- **Features:**
  - Sanitary leg kits available
  - 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
  - Brushed finish 240 grit

- **Rating:**
  - NSF 169 (Criteria C-2)
  - CSA File Number 42184 Type 1
  - UL 870 Type 4, 4X, 12

---

**Table:**

<table>
<thead>
<tr>
<th>WaterShed WS2D Type 4X Wall-Mount Disconnect</th>
<th>CleanTray F23 Stainless Steel Cable Tray</th>
<th>F22 UL4X Stainless Steel Wireway</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600x1300x300 to 2000x1900x600 [mm]</td>
<td>50x50x3000 to 150x150x3000 (mm)</td>
<td>100x100x300 to 150x150x3000 (mm)</td>
</tr>
</tbody>
</table>

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
- Brushed finish 240 grit

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

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

UL and cUL Type 4, 4X, 12
IP66, NSF 169 (Criteria C-2)

UL Type 1

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Free-stand Enclosures</th>
<th>Wall-mount Enclosures</th>
<th>Wall-mount Enclosures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Line</td>
<td>A30S4E with PowerGlide Handle</td>
<td>A21S4 Disconnect with PowerGlide Handle</td>
<td>CWS Concept &amp; CWSD Disconnect</td>
</tr>
<tr>
<td>Size Range</td>
<td>1800x600x400 to 2000x1600x800 (mm)</td>
<td>1500x1200x300 to 1800x1825x600 (mm)</td>
<td>CWS (inches): 12 x 12 x 6 to 72 x 36 x 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CWSD (inches): 20 x 22 x 8 to 60 x 38 x 12</td>
</tr>
</tbody>
</table>

### Standard Features
- **Heavy-duty free-standing Type 4X IP66 enclosures**
  - Stainless steel free-stand A30S4E, IP66, IK10, UL / NEMA Type 4X Enclosure
  - Stainless steel type 304 or type 316L
  - Three-point latching with patented type 316SS PowerGlide Handle
  - Plinth
  - Reduced door frame threshold
  - Removable gland plates
  - Brushed finish 240 grit
  - Hidden hinging
  - Internally mounted ‘C’ channel
  - FTC body flange and unibody construction
  - Foam in place gasket
  - Type 304 or 316 lifting eyes
- **Two-door stainless steel enclosures for flange- or centerpost-mounted disconnects**
  - 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
  - Brushed finish 240 grit

### Aesthetic, flush-door design with Type 4X rating
- 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

### CWS specific:
- Window door versions available

### CWSD specific:
- 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

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

### Ratings
- UL and cUL Type 4, 4X, IP66, IK10
- CWS: UL Type 3R, 4X, 12
- CSA: UL Type 4, 4X, 12
- Packaging
- Pharmaceutical processing
- Fieldbus enclosure
- Outdoor environments and corrosive applications
- Water treatment

CWS: UL Type 3R, 4X, 12
CSA: UL Type 4, 4X, 12
IP66
Windows – IP55
### Cooling products

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ProAir</strong> Air Conditioners</td>
<td>Harsh environment / washdown air conditioners</td>
</tr>
<tr>
<td><strong>H2Omit Condensation Management Solution</strong></td>
<td>Complete enclosure condensation and moisture removal system</td>
</tr>
<tr>
<td><strong>Thermoelectric Cooler</strong></td>
<td>Compact, low-profile Peltier-effect coolers for small indoor and outdoor enclosures</td>
</tr>
<tr>
<td><strong>Syspend Sanitary HMI</strong></td>
<td>Sanitary IP69K and Type 4X HMI solution with HMI suspension up to 40 Kg.</td>
</tr>
</tbody>
</table>

#### Standards and Approvals
- **ProAir** Air Conditioners: UL508A Listed, cUL Listed, CE, IP65
- **H2Omit Condensation Management Solution**: UL 508A Listed; Type 4, 4X
- **Thermoelectric Cooler**: cUL CSA 22.2 Type 4, 4X, NEMA/EEMAC Type 4, 4X (Dehumidifier)
- **Syspend Sanitary HMI**: UL Type 4X, IP69K

#### Additional Features
- **Aluminum barrier base, black with powder coat finish**
- **Stainless steel body with 1-31/32” wall thickness**
- **Flow-through air conditioning with air filters and humidistat**
- **Sealed, hermetic refrigerant system with UL listed capillary**
- **24 VDC power input**
- **Compressor, condenser, and refrigerant**
- **Compact, low-profile Peltier-effect coolers**
- **Sealed, hermetic refrigerant system with UL listed capillary**
- **24 VDC power input**
- **Compressor, condenser, and refrigerant**

#### Specifications
- **ProAir** Air Conditioners: 584x254x222 to 1100x400x260 (mm)
- **H2Omit Condensation Management Solution**: Dehumidifier: 150x135x142 (mm) Vent Drain: ø35, 50 length (mm)
- **Thermoelectric Cooler**: 236x128x176 to 405x187x178 (mm)
- **Syspend Sanitary HMI**: 300x300 to 500x600 (mm) Depths of: 150 and 200 (mm)
Our powerful portfolio of brands:

<table>
<thead>
<tr>
<th>CADDY</th>
<th>ERICO</th>
<th>HOFFMAN</th>
<th>RAYCHEM</th>
<th>SCHROFF</th>
<th>TRACER</th>
</tr>
</thead>
</table>

©2018 nVent. All nVent marks and logos are owned or licensed by nVent Services GmbH or its affiliates. All other trademarks are the property of their respective owners. nVent reserves the right to change specifications without notice. BRO00138_1805