

## WATERSHED™ DISCONNECT ENCLOSURE, TYPE 4X



### INDUSTRY STANDARDS

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

UL 508A Listed; Type 4, 4X, 12; File Number E61997 cUL Listed per CSA C22.2 No. 94; Type 4, 4X, 12; File No. E61997
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NSF 169

NEMA/EEMAC Type 4, 4X, 12

IEC 60529, IP66

*Meets NEMA Type 3RX requirements*

### APPLICATION

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

### SPECIFICATIONS

- 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by door edges
- Hinged side of door has provisions to allow direct flushing of hinge area
- 20-degree sloped top
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom
- Slanted flange trough collar along the top edge of the enclosure opening
- Stainless steel quarter-turn latches with flush slotted insert
- Seamless foam-in-place gasket
- Self-grounding latch system
- Bonding provision on door; grounding stud on body
- Panel studs fit optional NEMA size panels
- Preferred cutout on right flange provides mounting for most disconnect operators
- Mounting holes in back of body for direct mounting or for optional stand-off kit or external mounting brackets
- Furnished hardware kit consists of panel mounting nuts, grounding hardware and sealing washers for wall-mounting holes

### FINISH

Sides, top, bottom and door have a #4 brushed finish.

### ACCESSORIES

*See also Accessories.*

Mounting Bracket Kit

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures

Stand-Off Kit

Padlocking Handle Kit

Padlocking Latch Kit

### MODIFICATION AND CUSTOMIZATION

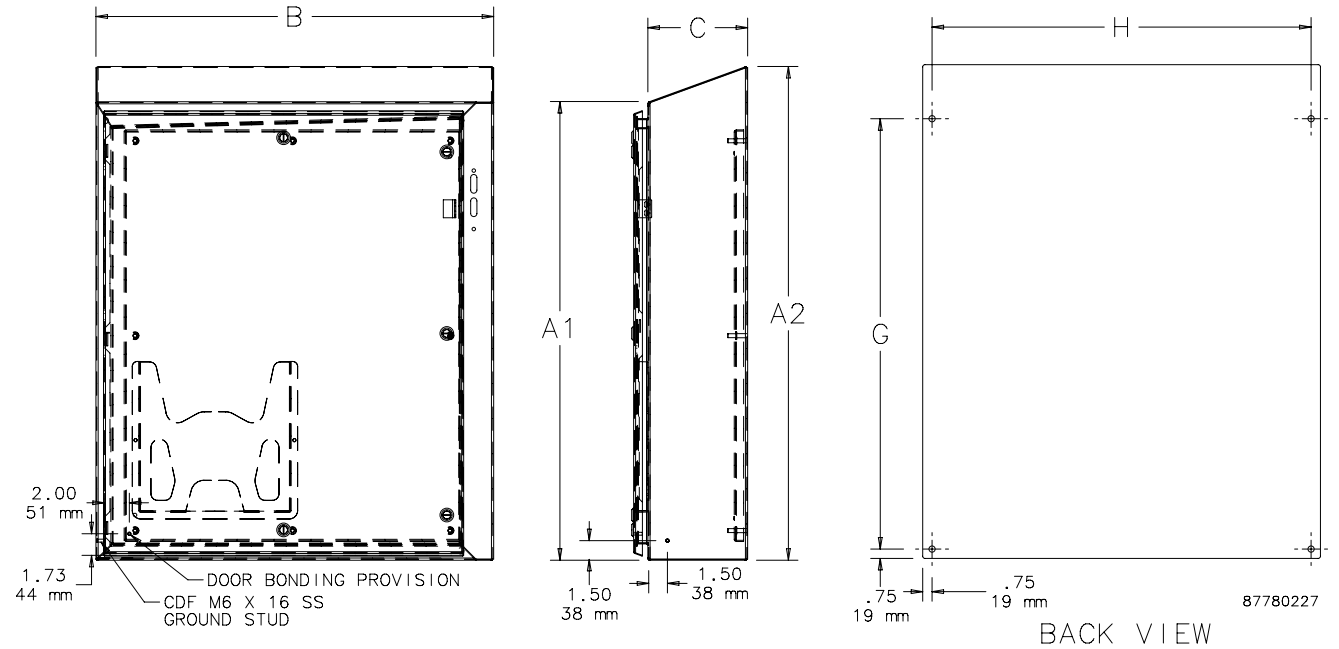
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

### BULLETIN: WS1D

Standard Product

Catalog Number	AxBxC in./mm	A1 in./mm	A2 in./mm	B in./mm	C in./mm	G in./mm	H in./mm	Latch Qty.	Panel	Conductive Panel
WS24HS2508SS	24.00 x 25.00 x 8.00	24.53	27.44	25.89	8.00	22.50	24.39	4	A24P24	A24P24G
	610 x 635 x 203	623	697	658	203	572	620			
WS30HS2508SS	30.00 x 25.00 x 8.00	30.53	33.44	25.89	8.00	28.50	24.39	4	A30P24	A30P24G
	762 x 635 x 203	775	849	658	203	724	610			
WS36HS3108SS	36.00 x 31.00 x 8.00	36.70	39.58	31.89	8.00	34.50	30.39	5	A36P30	A36P30G
	914 x 787 x 203	932	1005	810	203	876	772			
WS48HS3716SS	48.00 x 37.00 x 16.00	48.86	54.66	37.89	16.00	46.50	36.39	5	A48P36	A48P36G
	1219 x 940 x 406	1241	1388	962	406	1181	924			
WS60HS3716SS	60.00 x 37.00 x 16.00	60.87	66.66	37.89	16.00	58.50	36.39	5	A60P36	A60P36G
	1524 x 940 x 406	1546	1693	962	406	1486	924			

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



## DISCONNECT MOUNTING SPACE

Disconnects will occupy space on panel shown by dimensions E1, F1 and G1 in diagram. Wiring space W1 is available when disconnect is installed in the enclosure.

E1 = 4.75 in. (121 mm) when C = 8.00 in. (203 mm)

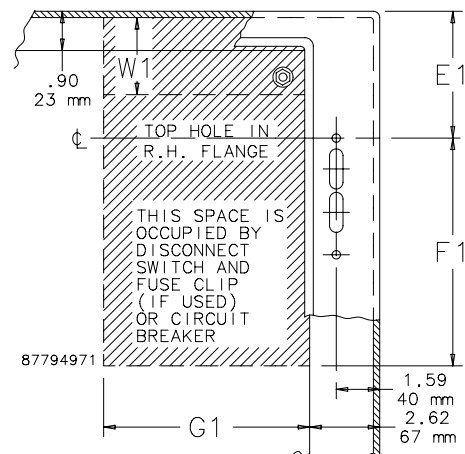
E1 = 11.62 in. (294 mm) when C = 16.00 in. (406 mm)

W1 = Wiring space.

See *Technical Information* for wire bend space.

Refer to *National Electrical Code*®, 2005 article 430-10(B) for wiring space required for line side conductors to be connected to disconnect.

**Verify your application to determine if wiring space is adequate.**



Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) under Technical Resources for F1 and G1 dimensions of various brands of disconnects.

**MOUNTING BRACKET KIT**



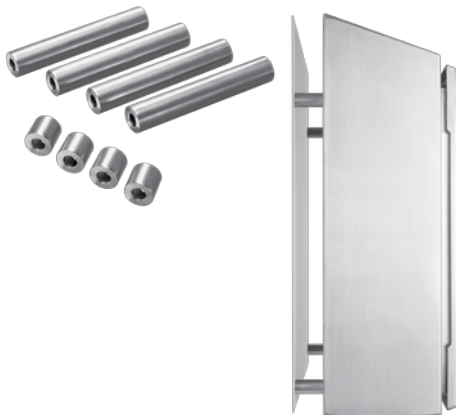
Type 304 stainless steel brackets are field-installable. Brackets maintain Type 4X rating. All hardware is included. Four brackets per kit.

Top brackets must be mounted to the sides of enclosure.

**BULLETIN: A80**

Catalog Number	Description
CMFKSS	Type 304 stainless steel mounting bracket kit

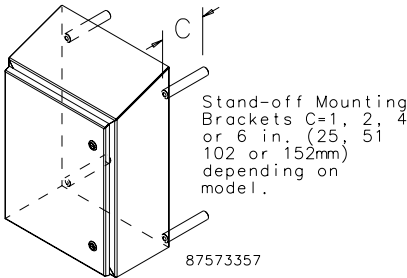
**STAND-OFF KIT**



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

**BULLETIN: WSY**

Catalog Number	C (in.)	C (mm)
WSSOK1SS	1.00	25
WSSOK2SS	2.00	51
WSSOK4SS	4.00	102
WSSOK6SS	6.00	152



**PADLOCKING HANDLE KIT**



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

**BULLETIN: WSY**

Catalog Number	Description
WSHPL	Stainless Steel Padlocking Handle

**PADLOCKING LATCH KIT**



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

**BULLETIN: WSY**

Catalog Number	Description
WSLPL	Padlocking Latch Kit

## PREFERRED-CUTOUT OVERVIEW



### APPLICATION

Enclosures having the preferred cutout are sized for use with up to 200A disconnect switches and up to 400A circuit breakers unless otherwise specified. The preferred cutout accepts the smaller operating handle whose mounting hole centers are 4.688 in. apart. Preferred cutouts are standard in mild steel wall-mount enclosures, modular enclosures and some select large mild steel enclosures. They are also present on all standard stainless steel offerings.

Operator adapter for preferred cutouts must be ordered separately to be used with A21S, A28S4 and A4S enclosures.

Preferred cutouts are designed to house the following:

#### Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
  - Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
  - Bulletin 140G flexible cable and variable depth flange-mount molded case circuit breakers
  - Bulletin 1494C cable-operated disconnect switches with flange-mount handles
  - Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches
- Allen-Bradley Bulletin 1494V-R1, -R2 and -W2 operating handles and Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators will NOT fit these enclosures.*

**ABB Controls** flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

**Eaton Cutler-Hammer** Type C361 flange-mount variable-depth operating mechanisms with disconnect switches and Type C371 flange-mount variable-depth operating mechanisms for circuit breakers.

**General Electric** Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX™ cable operators for circuit breakers.

**Siemens ITE MAX FLEX®** flange-mount variable-depth operating handles for circuit breakers.

**Schneider Square D®** Class 9422 disconnect switches with flange-mount variable-depth operating mechanisms or cable mechanisms and Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms for circuit breakers.

*These enclosures will NOT accept Square D Class 9422 bracket-mounted disconnect devices, Class 9422TG1 or TG2 devices.*

### ORDERING

Order the disconnect switch, operating handle and operating mechanism separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed or Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for disconnect ordering guidelines and wire bend space available. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

**All 24.12-in. (613-mm) and deeper enclosures** using short connecting rods by the following manufacturers require a Hoffman platform assembly, catalog number ADSCPA, purchased separately.

- ABB Controls flange-operated devices
- Eaton Cutler-Hammer C361 devices
- Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see Disconnect Enclosure Accessories)
- General Electric Type TDA devices (see Disconnect Enclosure Accessories)
- Schneider Square D® Class 9422 devices (see Disconnect Enclosure Accessories)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods.

- For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod.
- For General Electric devices, order catalog number TDSR extended length drive rod
- For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

Consult factory for space occupied on panel when platform is used.

Notes