



# Corrosion-Resistant Enclosures

## Revolutionary enclosure solutions that ensure reliable performance in extreme conditions.

Whether on an oil rig in the middle of the Atlantic or in a high-pressure, scalding washdown in a food processing facility, isolating critical controls from harsh environments is a job no one performs better than Hoffman. Not only does Hoffman offer the broadest range of corrosion-resistant enclosures, but we also invest more in design, testing, and product support. One example is our innovative Watershed™ line—we started with a clean sheet of paper to reinvent enclosures for washdown and developed the only enclosures certified by NSF. It's no wonder Hoffman enclosures are trusted in the world's most demanding environments.



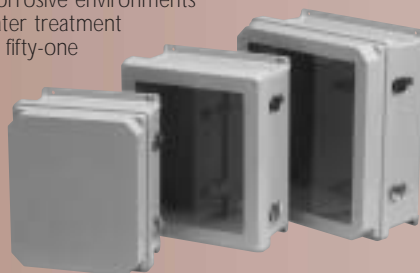
### Hoffman Watershed™

Hoffman Watershed™ Enclosures, our new line of stainless steel free-standing and wall-mount enclosures, are designed to facilitate complete washdown while protecting sensitive electrical controls. Hoffman's patent-pending design has exclusive features that promote runoff, discourage the presence of foreign objects in production areas, and eliminate hidden areas of standing water.

See pages 6.40 and 6.46

### Type 4X Overlapping Door Enclosures

The new HJ Series fiberglass enclosures feature overlapping shoe box covers with an integral mounting bracket designed for easy pole mounting. The HJ Series is designed for corrosive environments including petrochemical and water treatment applications. The series includes fifty-one new enclosures with both flat and raised cover designs. Each has a foam-in-place gasket with a continuous seal to keep out dust, dirt and liquids. All accept Hoffman's standard panels with several standard panel options available.



See page 6.122



### POWERGLIDE® Handle

Hoffman's POWERGLIDE® Handle is a patented design that meets stringent Type 4X requirements. For the most secure latching in wet environments, this Type 316 stainless steel handle can be specified on large, free-standing stainless steel and fiberglass Type 4X enclosures with 3-point latching mechanisms.

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### Modification Services

Modification Services is a program that provides a menu of specified options for modifying enclosures to your unique specifications. For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



A Pentair Company

# Stainless Steel Continuous Hinge Type 4X CHNFSS Junction Boxes



NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 JIC standard EGP-I-1967  
 CSA File No. LL42184: Type 4, Type 4X, and Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

### Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Fast Operating Junction Box Clamp
- Lock Kit
- Panels (see table)
- Swing-Out Panel Kit
- Terminal Block Kit Assembly
- Window Kit

### Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

### Application

Provides unmatched protection for housing electrical components in highly corrosive environments. This enclosure is used in indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants.

### Construction

- 16 or 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Seamless foam-in-place gasket assures watertight and dust-tight seal

See Chapter 11, EMC Enclosures, for information on a related EMC-shielded product.

- Stainless steel screws and clamps assure watertight seal
- Door removed by pulling stainless steel continuous hinge pin
- Weldnuts provided for mounting optional panels and terminal block kits

### Finish

Enclosures are unpainted. Cover and sides of body have smooth #4 brushed finish. Optional stainless steel panels are unpainted. Optional steel panels are white

### Industry Standards

UL 50, File No. E27567: Type 3R, Type 4, Type 4X, and Type 12 (see table)  
 UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X and Type 12 (see table)

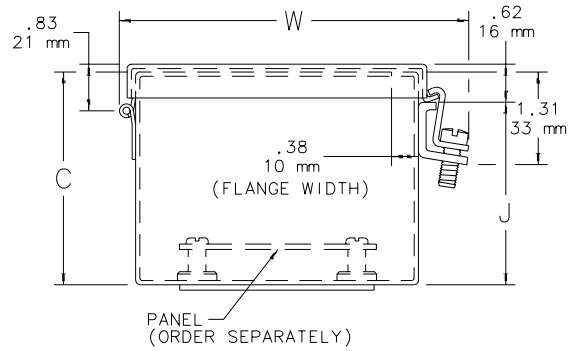
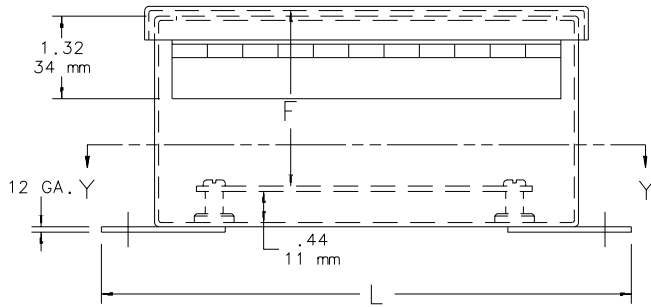
### Standard Sizes Continuous Hinge Type 4X CHNFSS Junction Boxes

Box Catalog Number Type 304	Box Catalog Number Type 316L	Body Ga.	Cover Ga.	Box Size A x B x C	* Stainless Steel Panel Catalog Number	* Steel Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	N	T	V	Y
■ A6044CHNFSS	■ A6044CHNFSS6	16	16	6.00 x 4.00 x 4.00 (152 x 102 x 102)	A6P4SS	A6P4	4.88 x 2.88 (124 x 73)	6.75 x 2.00 (171 x 51)	7.50 x 4.94 (191 x 125)	3.50 (89)	3.62 (92)	2.38 (60)	3.00 (76)	0.31 (8)	0.56 (14)
□ A606CHNFSS	□ A606CHNFSS6	16	16	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6SS	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	7.50 x 6.94 (191 x 176)	3.50 (89)	3.62 (92)	2.38 (60)	5.00 (127)	0.31 (8)	0.56 (14)
□ A8064CHNFSS	□ A8064CHNFSS6	14	16	8.00 x 6.00 x 4.00 (203 x 152 x 102)	A8P6SS	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	9.50 x 6.94 (241 x 176)	3.50 (89)	3.62 (92)	1.38 (35)	1.38 (127)	0.25 (6)	0.62 (16)
□ A1008CHNFSS	□ A1008CHNFSS6	14	16	10.00 x 8.00 x 4.00 (254 x 203 x 102)	A10P8SS	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	11.50 x 8.94 (292 x 227)	3.50 (89)	3.62 (92)	1.38 (35)	7.00 (178)	0.25 (6)	0.62 (16)
□ A12106CHNFSS	□ A12106CHNFSS6	14	16	12.00 x 10.00 x 6.00 (305 x 254 x 152)	A12P10SS	A12P10	10.75 x 8.88 (273 x 225)	12.75 x 8.00 (324 x 203)	13.50 x 10.94 (343 x 278)	5.50 (140)	3.62 (143)	2.38 (60)	9.00 (229)	0.25 (6)	0.62 (16)
□ A1212CHNFSS	□ A1212CHNFSS6	14	16	12.00 x 12.00 x 6.00 (305 x 305 x 152)	A12P12SS	A12P12	10.75 x 10.88 (273 x 276)	12.75 x 10.00 (324 x 254)	13.50 x 12.94 (343 x 329)	5.50 (140)	3.62 (143)	2.38 (60)	11.00 (279)	0.25 (6)	0.62 (16)
□ A1412CHNFSS	□ A1412CHNFSS6	14	16	14.00 x 12.00 x 6.00 (356 x 305 x 152)	A14P12SS	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	15.50 x 12.94 (394 x 329)	5.50 (140)	3.62 (143)	2.38 (60)	11.00 (279)	0.25 (6)	0.62 (16)
□ A1614CHNFSS	□ A1614CHNFSS6	14	16	16.00 x 14.00 x 6.00 (406 x 356 x 152)	A16P14SS	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	17.50 x 14.94 (445 x 379)	5.50 (140)	3.62 (143)	2.38 (60)	13.00 (330)	0.25 (6)	0.62 (16)

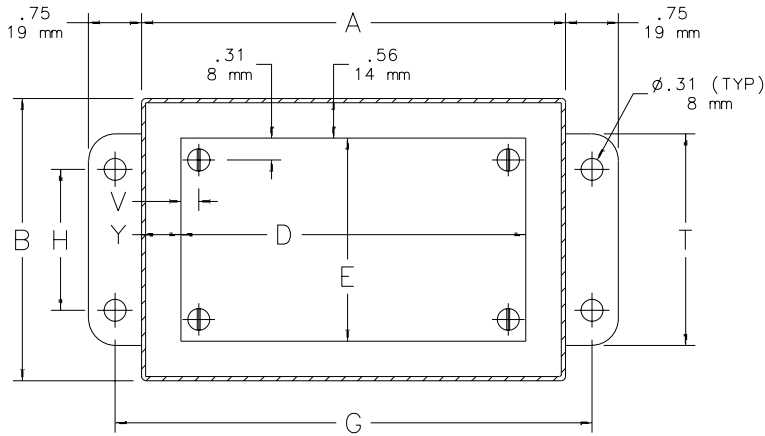
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional aluminum, zinc-plated and composite panels are also available for most sizes. See General Accessories.

- UL 50
- UL 508A, 508

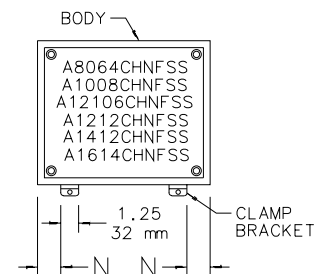
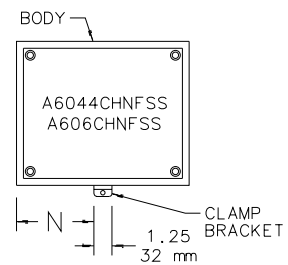


**NOTE:** 1. Optional panels are 14 gauge steel or stainless steel.  
2. Panel screws are #10-32 pan head.



SECTION Y-Y

**Clamp Bracket Locations**



C2540



A Pentair Company

# Stainless Steel Clamp Cover Type 4X NFSS Junction Boxes



## Application

Provides unmatched protection for housing electrical components in highly corrosive environments. This enclosure is used in indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants.

## Construction

- 16 or 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Stainless steel screws and clamps assure watertight seal
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102mm) and larger

## Finish

Enclosures are unpainted. Cover and sides of body have smooth #4 brushed finish. Optional stainless steel panels are unpainted. Optional steel panels are white.

## Industry Standards

UL 50, File No. E27567: Type 3R, Type 4, Type 4X, and Type 12 (see table)  
 UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X and Type 12 (see table)  
 NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 CSA File No. LL42184: Type 4, Type 4X, and Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Fast Operating Junction Box Clamp Panels (See table)
- Swing-Out Panel Kit
- Terminal Block Kit Assembly
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

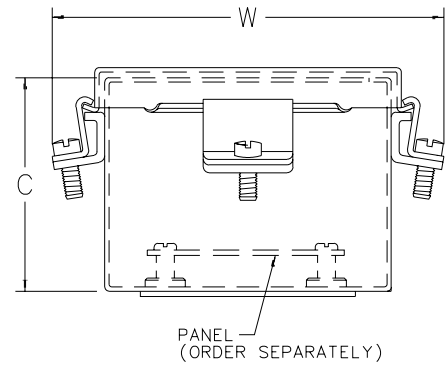
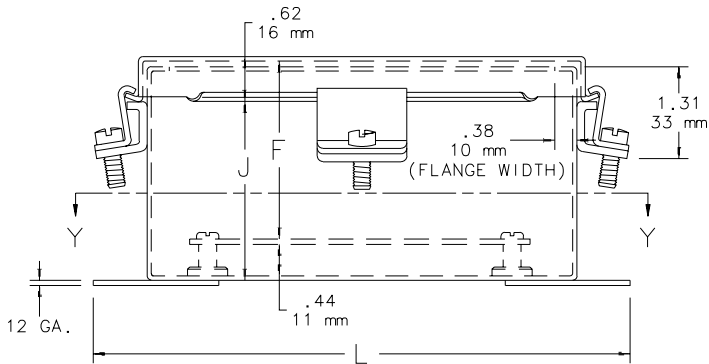
## Standard Sizes Clamp Cover Type 4X NFSS Junction Boxes

Box Catalog Number Type 304	Box Catalog Number Type 316L	Body Ga.	Cover Ga.	Box Size A x B x C	*Stainless Steel Panel Catalog Number	*Steel Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	M	N	T	V	Y
■ A404NFSS	■ A404NFSS6	16	16	4.00 x 4.00 x 3.00 (102x102x76)	No Panel	No Panel	No Panel	4.75 x 2.00 (121 x 51)	5.50 x 5.38 (140 x 137)	—	2.56 (65)	1.38 (35)	1.38 (35)	3.00 (76)	—	—
■ A6044NFSS	■ A6044NFSS6	16	16	6.00 x 4.00 x 4.00 (152 x 102 x 102)	A6P4SS	A6P4	4.88 x 2.88 (124 x 73)	6.75 x 2.00 (171 x 51)	7.50 x 5.38 (191 x 137)	3.50 (89)	3.56 (90)	1.38 (35)	1.38 (35)	3.00 (76)	0.31 (8)	0.56 (14)
□ A8064NFSS	□ A8064NFSS6	14	16	8.00 x 6.00 x 4.00 (203 x 152 x 102)	A8P6SS	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	9.50 x 7.38 (241 x 187)	3.50 (89)	3.56 (90)	—	1.38 (35)	5.00 (127)	0.25 (6)	0.62 (16)
□ A606NFSS	□ A606NFSS6	16	16	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6SS	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	7.50 x 7.38 (191 x 187)	3.50 (89)	3.56 (90)	2.38 (60)	1.38 (35)	5.00 (127)	0.31 (8)	0.56 (14)
□ A1008NFSS	□ A1008NFSS6	14	16	10.00 x 8.00 x 4.00 (254 x 203 x 102)	A10P8SS	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	11.50 x 9.38 (292 x 238)	3.50 (89)	3.56 (90)	—	1.38 (35)	7.00 (178)	0.25 (6)	0.62 (16)
□ A12106NFSS	□ A12106NFSS6	14	16	12.00 x 10.00 x 6.00 (305 x 254 x 152)	A12P10SS	A12P10	10.75 x 8.88 (273 x 225)	12.75 x 8.00 (324 x 203)	13.50 x 11.38 (343 x 289)	5.50 (140)	5.56 (141)	—	2.38 (60)	9.00 (229)	0.25 (6)	0.62 (16)
□ A1412NFSS	□ A1412NFSS6	14	16	14.00 x 12.00 x 6.00 (356 x 305 x 152)	A14P12SS	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	15.50 x 13.38 (394 x 340)	5.50 (140)	5.56 (141)	—	2.38 (60)	11.00 (279)	0.25 (6)	0.62 (16)
□ A1614NFSS	□ A1614NFSS6	14	16	16.00 x 14.00 x 6.00 (406 x 356 x 152)	A16P14SS	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	17.50 x 15.38 (445 x 391)	5.50 (140)	5.56 (141)	—	2.38 (60)	13.00 (330)	0.25 (6)	0.62 (16)

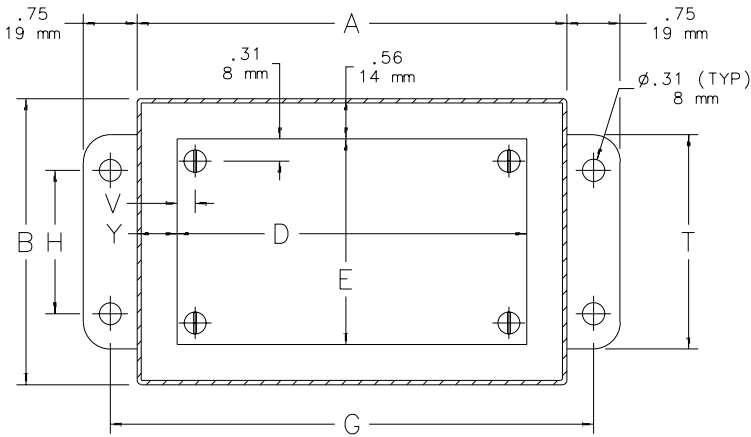
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional aluminum, zinc-plated and composite panels are also available for most sizes. See General Accessories.

- UL 50
- UL 508A, 508

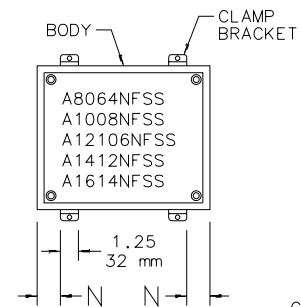
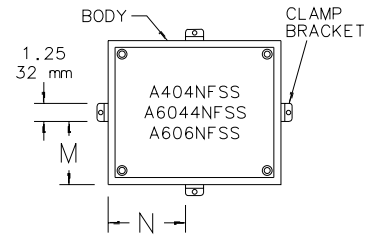


**NOTE:** 1. Optional panels are 14 gauge steel or stainless steel.  
2. Panel screws are #10-32 pan head.



SECTION Y-Y

**Clamp Bracket Locations**



C2541

# INLINE® Stainless Steel Instrumentation Enclosures



## Application

INLINE® enclosures house and protect sensitive electrical or electronic components from harsh, dirty environments. For use in installations where dirt, dust, oil, water, or other contaminants are present. Streamlined styling, flush latching, and an attractive, durable finish complement high-tech electronic equipment. INLINE® window enclosures are uniquely suited to protect field bus components and other instrumentation devices.

## Construction

- 16 gauge or 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth
- Body flange trough excludes liquids and contaminants; flange directs liquids away from the enclosure opening
- Large perimeter opening facilitates component installation, maintenance, or conversion
- Fastening holes in back of body for direct mounting or optional external mounting brackets
- Seamless foam-in-place gasket on standard models provides oil-tight and dust-tight seal against contaminants
- M6 bonding provision provided on cover or door
- M6 grounding stud provided on body
- Furnished hardware kit consists of panel mounting screws, grounding hardware, and sealing washers for wall-mounting holes
- Installation instructions for enclosure and accessories are provided
- Optional 12 gauge (2.7mm) panels are available

### INLINE® screw cover enclosures

- Captivated Type 316 stainless steel cover screws with sealing bushings made of a durable composite material
- Integral compression stops maintain optimal gasket compression

### INLINE® hinged door enclosures

- 180-degree door opening
- Removable hinge pins (Type 316 stainless steel)
- Standard self-grounding quarter-turn Type 316 stainless steel latch system with double seal provides maximum protection against contamination

### INLINE® window door enclosures

- 3/16-inch (4.8mm) clear polycarbonate window is mounted flush with cover surface
- 180-degree door opening
- Removable Type 316 stainless steel hinge pins
- Standard self-grounding slotted quarter-turn Type 316 stainless steel latch system with double seal provides maximum protection against contamination

## Finish

Enclosures are unpainted. Cover and body have smooth #4 brushed finish.

Optional steel subpanels are available in conductive galvanized or white enamel finish.

## Industry Standards

*Mounting brackets required to meet UL/CSA external mounting requirements.*

- INLINE® screw cover enclosures  
UL 508A, 508, File No. E61997: Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 4, Type 4X, and Type 12  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
VDE IP66  
IEC 60529, IP66
- INLINE® hinged door enclosures  
UL 508A, 508, File No. E61997: Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 4, Type 4X, and Type 12  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
VDE IP66  
IEC 60529, IP66

- INLINE® window door enclosures  
UL 508A, 508, File No. E61997: Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 4, Type 4X and Type 12  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
VDE IP66  
IEC 60529, IP55

## Accessories

DIN Rail or Panel Mounting Bracket  
DIN3 Rails  
Grounding Kit  
Key Inserts  
Mounting Bracket Kit  
Panels  
Wing Knob Latch

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

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**Standard Sizes INLINE® Stainless Steel Screw Cover Enclosures**

Type 304 Catalog Number	Type 316L Catalog Number	Enclosure Size A x B x C	* Steel Panel Catalog Number	* Galvanized Panel Catalog Number	Panel Size D x E	Mounting G x H	F
LSC151512SS	LSC151512SS6	150 x 150 x 120 (5.91 x 5.91 x 4.72)	LP1515	LP1515G	131 x 131 (5.16 x 5.16)	132 x 85 (5.20 x 3.35)	105 (4.13)
LSC201512SS	LSC201512SS6	200 x 150 x 120 (7.87 x 5.91 x 4.72)	LP2015	LP2015G	181 x 131 (7.13 x 5.16)	182 x 85 (7.17 x 3.35)	105 (4.13)
LSC252015SS	LSC252015SS6	250 x 200 x 150 (9.84 x 7.87 x 5.91)	LP2520	LP2520G	231 x 181 (9.09 x 7.13)	232 x 135 (9.13 x 5.31)	135 (5.31)
LSC302515SS	LSC302515SS6	300 x 250 x 150 (11.81 x 9.84 x 5.91)	LP3025	LP3025G	281 x 231 (11.06 x 9.09)	282 x 185 (11.10 x 7.28)	135 (5.31)
LSC353020SS	LSC353020SS6	350 x 300 x 200 (13.78 x 11.81 x 7.87)	LP3530	LP3530G	331 x 281 (13.03 x 11.06)	332 x 235 (13.07 x 9.25)	185 (7.28)

**Standard Sizes INLINE® Stainless Steel Hinged Door Enclosures**

Type 304 Catalog Number	Type 316L Catalog Number	Enclosure Size A x B x C	*Steel Panel Catalog Number	* Galvanized Steel Panel Catalog Number	Panel Size D x E	Mounting G x H	F
LHC151512SS	LHC151512SS6	150 x 150 x 120 (5.91 x 5.91 x 4.72)	LP1515	LP1515G	131 x 131 (5.16 x 5.16)	132 x 85 (5.20 x 3.35)	105 (4.13)
LHC201512SS	LHC201512SS6	200 x 150 x 120 (7.87 x 5.91 x 4.72)	LP2015	LP2015G	181 x 131 (7.13 x 5.16)	182 x 85 (7.17 x 3.35)	105 (4.13)
LHC252015SS	LHC252015SS6	250 x 200 x 150 (9.84 x 7.87 x 5.91)	LP2520	LP2520G	231 x 181 (9.09 x 7.13)	232 x 135 (9.13 x 5.31)	135 (5.31)
LHC302515SS	LHC302515SS6	300 x 250 x 150 (11.81 x 9.84 x 5.91)	LP3025	LP3025G	281 x 231 (11.06 x 9.09)	282 x 185 (11.10 x 7.28)	135 (5.31)
LHC353020SS	LHC353020SS6	350 x 300 x 200 (13.78 x 11.81 x 7.87)	LP3530	LP3530G	331 x 281 (13.03 x 11.06)	332 x 235 (13.07 x 9.25)	185 (7.28)

**Standard Sizes INLINE® Stainless Steel Window Door Enclosures**

Type 304 Catalog Number	Type 316L Catalog Number	Enclosure Size A x B x C	*Steel Panel Catalog Number	*Galvanized Panel Catalog Number	Panel Size D x E	Mounting G x H	Window Size M x N	F
LWC201512SS	LWC201512SS6	200 x 150 x 120 (7.87 x 5.91 x 4.72)	LP2015	LP2015G	181 x 131 (7.13 x 5.16)	182 x 85 (7.17 x 3.35)	149 x 65 (5.87 x 2.56)	101 (3.98)
LWC252015SS	LWC252015SS6	250 x 200 x 150 (9.84 x 7.87 x 5.91)	LP2520	LP2520G	231 x 181 (9.09 x 7.13)	232 x 135 (9.13 x 5.31)	199 x 115 (7.83 x 4.53)	131 (5.16)
LWC302515SS	LWC302515SS6	300 x 250 x 150 (11.81 x 9.84 x 5.91)	LP3025	LP3025G	281 x 231 (11.06 x 9.09)	281 x 185 (11.06 x 7.28)	249 x 165 (9.80 x 6.50)	131 (5.16)
† LWC204015SS	LWC204015SS6	200 x 400 x 150 (7.87 x 15.75 x 5.91)	LP2040	—	181 x 381 (7.13 x 15.00)	182 x 335 (7.17 x 13.19)	115 x 349 (4.53 x 13.74)	131 (5.16)
† LWC206015SS	LWC206015SS6	200 x 600 x 150 (7.87 x 23.62 x 5.91)	LP2060	—	181 x 581 (7.13 x 22.87)	182 x 535 (7.17 x 21.06)	115 x 549 (4.53 x 21.61)	131 (5.16)

Inch dimensions in ( ).

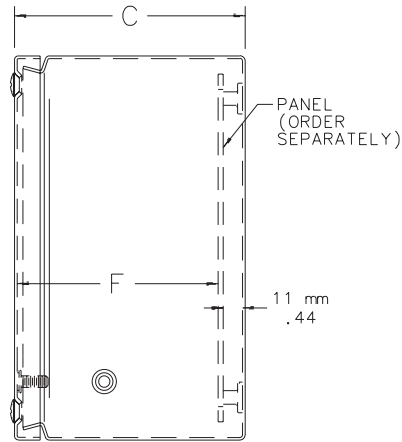
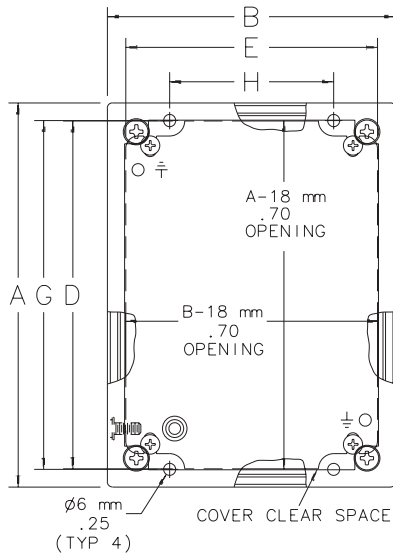
\* Panels must be ordered separately.

† Hinged on side "B" of enclosure.



# INLINE<sup>®</sup> Stainless Steel Instrumentation Enclosures

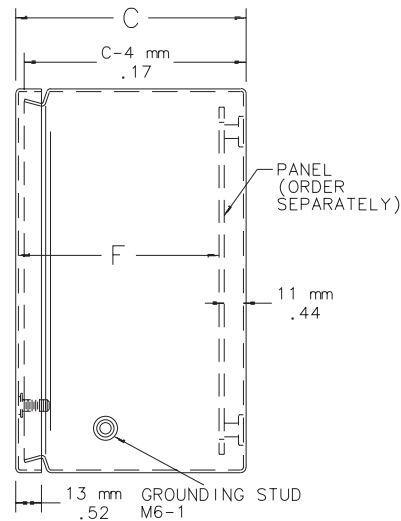
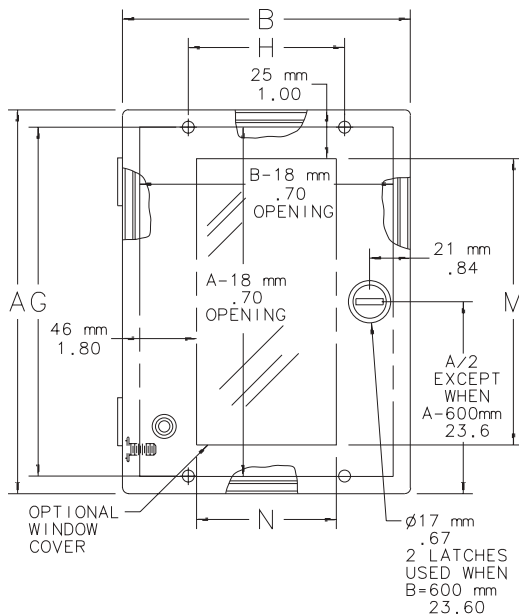
## ■ INLINE<sup>®</sup> Stainless Steel Screw Cover Enclosure



11C59187\_1

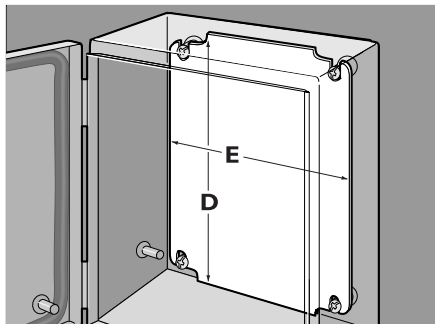
- NOTE:
1. Panels are 2.7mm (12 gauge) steel.
  2. Panel screws are M5-0.8 pan head.
  3. Rear mounting holes will accommodate M6-1.0 or 1/4-20 UNC mounting screws (supplied by customer).

## ■ INLINE<sup>®</sup> Stainless Steel Hinged Door and Window Door Enclosures



11C59187\_2

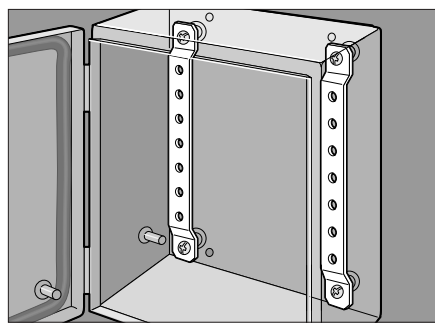
- NOTE: Hinged on "B" side of enclosure when B = 400mm or 600mm.



**Panels**

are 12 gauge white-painted or galvanized steel. Ground hole is labeled. Sized for M6 fastener.

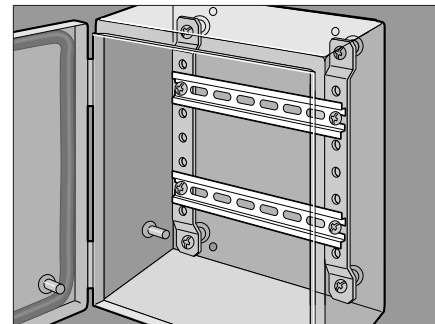
Painted Steel Catalog Number	Galvanized Steel Catalog Number	Panel Size D x E	Fits INLINE Enclosure
LP1515	LP1515G	131 x 131	150 x 150
LP2015	LP2015G	181 x 131	200 x 150
LP2520	LP2520G	231 x 181	250 x 200
LP3025	LP3025G	281 x 231	300 x 250
LP3530	LP3530G	331 x 281	350 x 300
LP2040		181 x 381	200 x 400
LP2060		181 x 581	200 x 600



**DIN Rail or Panel Mounting Brackets**

provide a mounting framework for installing DIN3 rails or a panel. Rails (or panel) attach to the brackets, and the brackets bolt directly to the enclosure. The bracket is offset to permit additional space in front of or behind mounted equipment. Brackets are zinc plated 10 gauge steel. Mounting hardware included with brackets. Brackets must be purchased to mount DIN3 type rails.

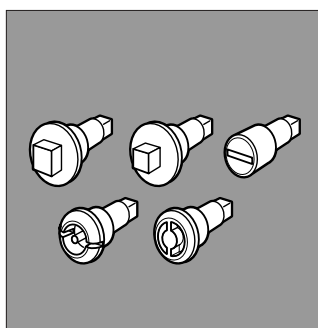
Catalog Number	Fits INLINE® Enclosure
LMK15	when A or B = 150
LMK20	when A or B = 200
LMK25	when A or B = 250
LMK30	when A or B = 300
LMK35	when A or B = 350



**DIN3 Type 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. DIN Rail Mounting Brackets are required in order to mount rails.

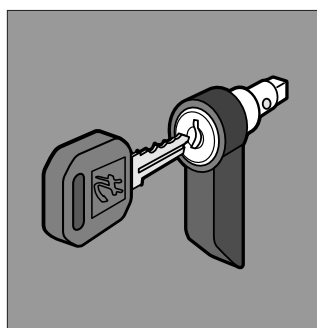
DIN3 Symmetric profile TS35/7.5 Catalog Number	Fits INLINE® Enclosure
LDR3P15	when A or B = 150
LDR3P20	when A or B = 200
LDR3P25	when A or B = 250
LDR3P30	when A or B = 300
LDR3P35	when A or B = 350
LDR3P40	when A or B = 400
LDR3P60	when A or B = 600



**Key Inserts**

can be substituted for the standard quarter-turn latch on hinged cover and window cover enclosures. Inserts are Type 316 stainless steel.

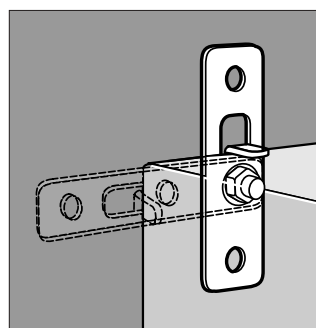
Catalog Number	Description
LLKSM7SS	Square 7mm
LLKSM8SS	Square 8mm
LLKDBSS	Daimler Benz
LLKDBM3SS	Double bit 3mm
LLKSSSS	Slotted screw



**Wing Knob Latch**

replaces the standard quarter-turn latch on all hinged cover and window cover enclosures. Two keys and installation instructions are furnished. (Latch will not maintain Type 4X rating.)

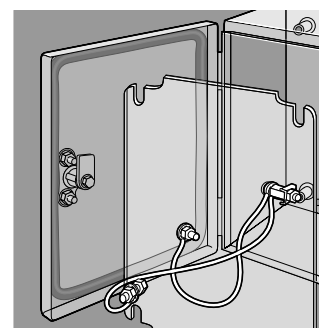
Catalog Number	Description
LLKWK	Black die-cast zinc



**Mounting Bracket Kit**

Field installable. Type 316L stainless steel. All hardware included. Four brackets per kit.

Catalog Number	Description
LMFKSS	Type 316L stainless steel mounting bracket kit



**Grounding Kit**

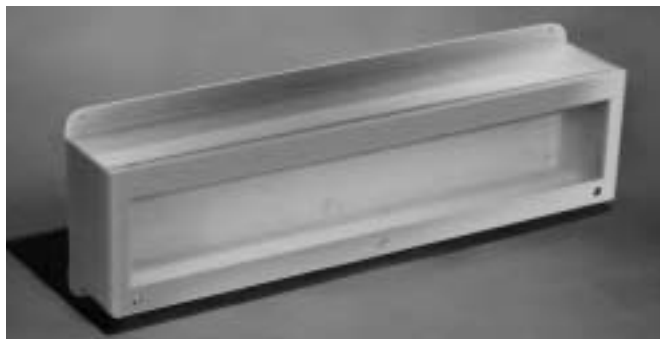
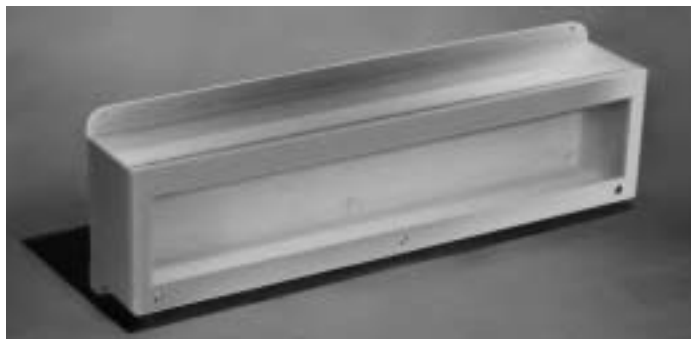
provides a means of attaching a grounding conductor to the enclosure. Kit consists of two copper wires with a ring terminal at each end. Wires are insulated. All installation hardware and instructions are included.

Catalog Number
LLGK



A Pentair Company

# INLINE® Landscape Stainless Steel Instrumentation Enclosures



## Application

Landscape INLINE® Stainless Steel Instrumentation Enclosures are sized to house a variety of field bus components. They protect sensitive electrical or electronic components in installations where dirt, dust, oil, water, or other contaminants are present. Both solid and window door models are available. Optional DIN rail brackets and panels provide component mounting options. Type 304 stainless steel is suitable for installation in food service and pharmaceutical applications, as well as in corrosive environments. Streamlined styling and flush latching complete the package.

## Construction

- 14 gauge stainless steel body; 16 gauge stainless steel door
- Seams continuously welded and ground smooth
- Body flange trough excludes liquids and contaminants; flange directs liquids away from the enclosure opening
- Large opening facilitates component installation, maintenance, or conversion
- Mounting brackets are spot-welded to top and bottom of enclosure
- Mounting brackets have predrilled mounting holes; custom holes can be drilled for mounting flexibility

- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- M6 ground stud with base flange provided on body
- M6 bonding provision with base flange provided on door
- Enclosure includes panel mounting screws and grounding hardware
- Hinged door with removable hinge pins and self-grounding quarter-turn latch system with double seal against contamination
- Door opens 180 degrees
- Window door models include 3/16 in. (4.8mm) clear polycarbonate window mounted flush with door surface

## Finish

Type 304 stainless steel with #4 brushed finish. Back is not brushed. Optional panels are white.

## Industry Standards

UL 508A, 508, File Number E61997: Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 4, Type 4X, and Type 12  
 CSA File Number LR42186: Type 4, Type 4X, and Type 12  
 VDE IP66  
 IEC 60529, IP66

## Accessories

- DIN Mounting Brackets
- DIN3 Rails
- Grounding Kit
- Key Inserts
- Panels
- Wing Knob Latch

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Holes and cutouts in body, doors, subpanels
- Tapped holes and fasteners in subpanel
- Mounting
- Delete mounting brackets
- Standard accessories

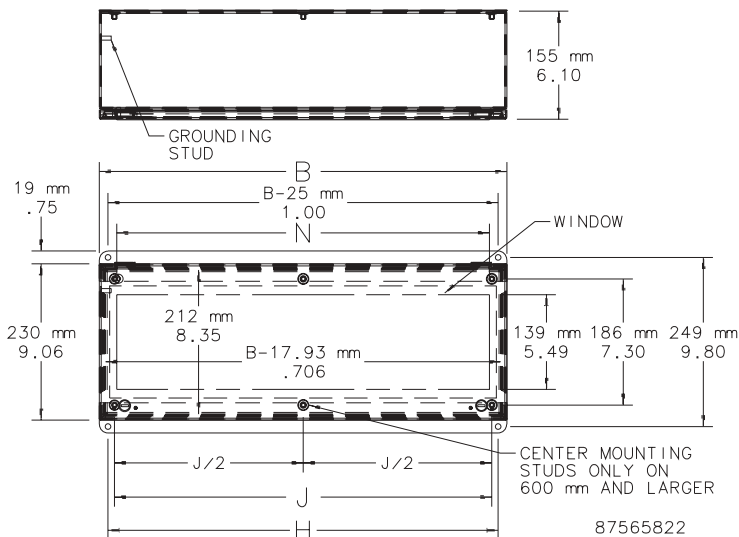
For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Standard Sizes INLINE® Landscape Stainless Steel Instrumentation Enclosures

Catalog Number	Enclosure B mm in.	Mtg Holes H mm in.	Mtg Studs J mm in.	Clear Space Above Panel mm in.	
<b>Hinged Solid Cover</b>					
LHC233116SS	310 12.21	281 11.08	265 10.45	140 5.51	
LHC234616SS	460 18.11	431 16.99	416 16.36	140 5.51	
LHC236016SS	600 23.62	571 22.50	556 21.88	140 5.51	
LHC237716SS	770 30.32	741 29.19	726 28.57	140 5.51	
LHC239316SS	925 36.42	896 35.29	881 34.67	140 5.51	
<b>Hinged Window Cover</b>					
Catalog Number	Enclosure B mm in.	Window N mm in.	Mtg Holes H mm in.	Mtg Studs J mm in.	Clear Space Above Panel mm in.
LWC233116SS	310 12.21	259 10.20	281 11.08	265 10.45	140 5.51
LWC234616SS	460 18.11	409 16.11	431 16.99	416 16.36	140 5.51
LWC236016SS	660 23.62	549 21.62	571 22.50	556 21.88	140 5.51
LWC237716SS	770 30.32	719 28.31	741 29.19	726 28.57	140 5.51
LWC239316SS	925 36.42	874 34.42	896 35.29	881 34.67	140 5.51

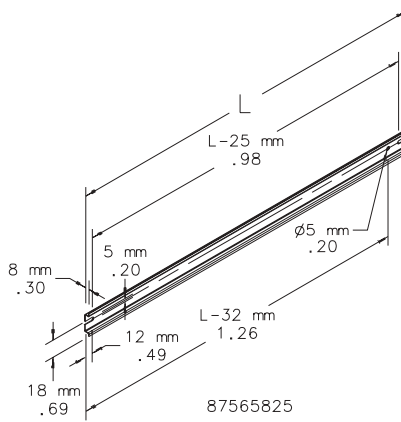


U.S. Patent 5,683,005: DIN Rail/Panel Mounting Bracket

**Optional Components**

**DIN3 Rails**

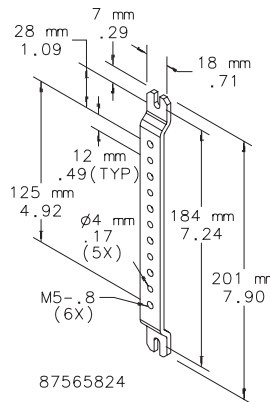
DIN3 rails, which provide mounting for DIN3 snap-on I/O modules, mount horizontally on the DIN mounting bracket. These symmetric profile TS35/7.5 rails are made of 20 gauge steel plated with zinc with yellow chromate. DIN mounting brackets are required in order to mount rails.



Catalog Number	L mm	L in.	Pkg. Qty.
LDR3P31	285	11.22	4
LDR3P46	435	17.13	4
LDR3P60	575	22.64	4
LDR3P77	745	29.33	4
LDR3P93	900	35.43	4

**DIN Mounting Brackets**

Reversible mounting brackets are 12 gauge steel plated with zinc with yellow chromate. They mount on studs provided in the enclosure. Multiple M5 tapped mounting holes provide DIN rail mounting flexibility. Brackets can also be used to mount panels where additional space behind the panel is required. Hardware for mounting the brackets to the enclosure and for mounting the rails or panel to the brackets is included.

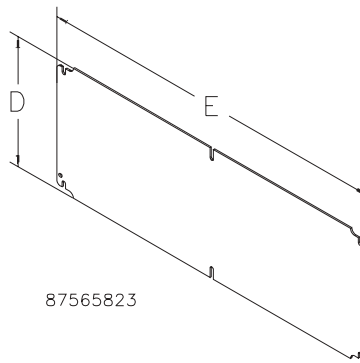


Catalog Number	Description	Pkg. Qty.
LMK23 <sup>a</sup>	DIN Mounting Brackets	2

<sup>a</sup> 600mm and longer enclosures require two sets of brackets for mounting panels.

**Panels**

Panels are 12 gauge steel with a white polyester powder paint 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.



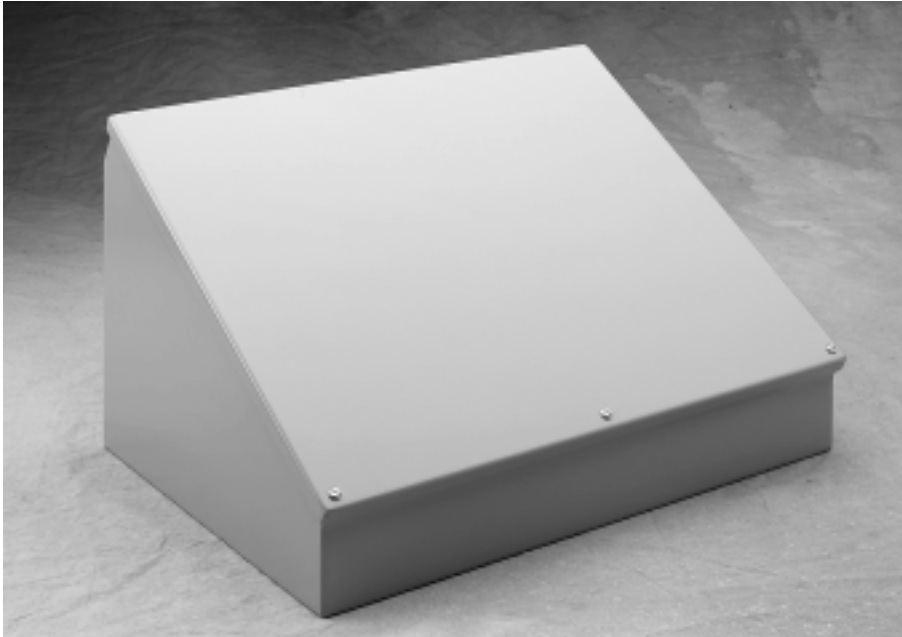
Catalog Number	D mm	D in.	E mm	E in.
LP2331	211	8.31	291	11.46
LP2346	211	8.31	441	17.36
LP2360	211	8.31	581	22.87
LP2377	211	8.31	751	29.57
LP2393	211	8.31	906	35.67

**Optional Components Selection**

Solid Cover Enclosure Catalog Number	Window Cover Enclosure Catalog Number	Panel Catalog Number	DIN Rail Catalog Number	DIN Rail or Panel Mounting Bracket Catalog Number
LHC233116SS	LWC233116SS	LP2331	LDR3P31	LMK23
LHC234616SS	LWC234616SS	LP2346	LDR3P46	LMK23
LHC236016SS	LWC236016SS	LP2360	LDR3P60	LMK23 <sup>a</sup>
LHC237716SS	LWC237716SS	LP2377	LDR3P77	LMK23 <sup>a</sup>
LHC239316SS	LWC239316SS	LP2393	LDR3P93	LMK23 <sup>a</sup>

<sup>a</sup> 600mm and longer enclosures require two sets of brackets for mounting panels.

# Stainless Steel Consolets



## Application

Designed to house a variety of electronic control or instrumentation devices, consolets provide protection from dust, dirt, oil, and water. Flexible design allows for mounting on either of two sides, creating control surfaces of 30 degrees or 60 degrees. Consolets can be mounted on desktops, pedestals, or other flat surfaces.

See Chapter 2, Operator Interface Enclosure Systems, for related mild steel enclosures.

## Construction

- Type 304 stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Captivated cover screws thread into sealed wells
- Control panel attached with continuous hinge along bottom edge
- Oil-resistant gasket and adhesive

## Finish

Stainless steel enclosures are unpainted. Cover and sides of body have smooth #4 brushed finish.

## Industry Standards

UL 508A, 508, File Number E61997: Type 12 and Type 13  
 NEMA/EEMAC Type 12  
 CSA File Number LR42186: Type 12  
 IEC 60529, IP65

## Accessories

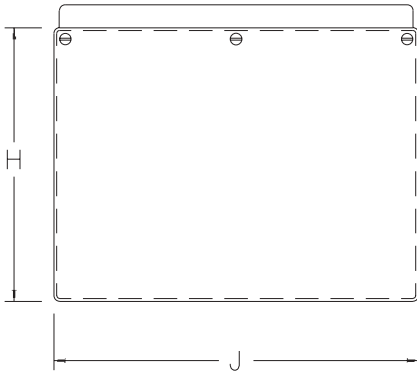
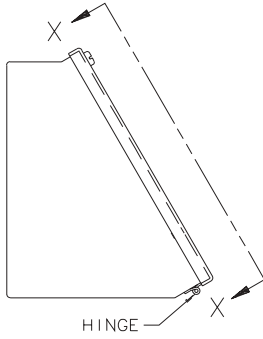
See Chapter 12, General Accessories.

Corrosion Inhibitors  
 Latch Kits  
 Mounting Bracket Kit  
 Pedestals  
 Window Kit

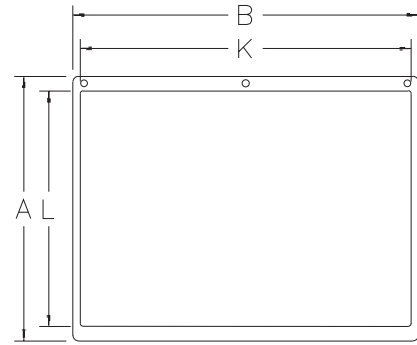
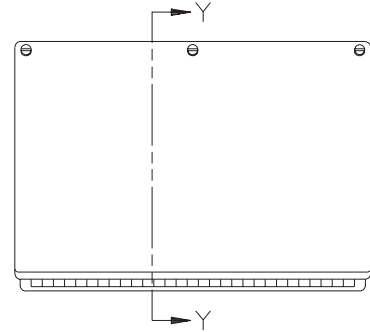
## Standard Sizes Stainless Steel Consolets

Catalog Number	Enclosure Size A x B x C		E	H	J	K	L	N
	inch	(millimeter)						
C8C8SS	8.00 x 8.00 x 7.09	(203 x 203 x 180)	5.62 (143)	8.28 (210)	8.28 (210)	7.50 (191)	6.62 (168)	7.44 (189)
C8C12SS	8.00 x 12.00 x 7.09	(203 x 305 x 180)	5.62 (143)	8.28 (210)	12.28 (312)	11.50 (292)	6.62 (168)	7.44 (189)
C8C16SS	8.00 x 16.00 x 7.09	(203 x 406 x 180)	5.62 (143)	8.28 (210)	16.28 (414)	15.50 (394)	6.62 (168)	7.44 (189)
C8C20SS	8.00 x 20.00 x 7.09	(203 x 508 x 180)	5.62 (143)	8.28 (210)	20.28 (515)	19.50 (495)	6.62 (168)	7.44 (189)
C12C12SS	12.00 x 12.00 x 9.09	(305 x 305 x 231)	7.62 (194)	12.28 (312)	12.28 (312)	11.50 (292)	10.62 (270)	10.91 (277)
C12C16SS	12.00 x 16.00 x 9.09	(305 x 406 x 231)	7.62 (194)	12.28 (312)	16.28 (414)	15.50 (394)	10.62 (270)	10.91 (277)
C12C20SS	12.00 x 20.00 x 9.09	(305 x 508 x 231)	7.62 (194)	12.28 (312)	20.28 (515)	19.50 (495)	10.62 (270)	10.91 (277)
C12C24SS	12.00 x 24.00 x 9.09	(305 x 610 x 231)	7.62 (194)	12.28 (312)	24.28 (617)	23.50 (597)	10.62 (270)	10.91 (277)
C16C16SS	16.00 x 16.00 x 11.09	(406 x 406 x 282)	9.62 (244)	16.28 (414)	16.28 (414)	15.50 (394)	14.62 (371)	14.38 (365)
C16C20SS	16.00 x 20.00 x 11.09	(406 x 508 x 282)	9.62 (244)	16.28 (414)	20.28 (515)	19.50 (495)	14.62 (371)	14.38 (365)
C16C24SS	16.00 x 24.00 x 11.09	(406 x 610 x 282)	9.62 (244)	16.28 (414)	24.28 (617)	23.50 (597)	14.62 (371)	14.38 (365)
C16C30SS	16.00 x 30.00 x 11.09	(406 x 762 x 282)	9.62 (244)	16.28 (414)	30.28 (769)	29.50 (749)	14.62 (371)	14.38 (365)
C16C36SS	16.00 x 36.00 x 11.09	(406 x 914 x 282)	9.62 (244)	16.28 (414)	36.28 (922)	35.50 (902)	14.62 (371)	14.38 (365)
C20C20SS	20.00 x 20.00 x 13.09	(508 x 508 x 332)	11.62 (295)	20.28 (515)	20.28 (515)	18.62 (473)	18.62 (473)	17.84 (453)
C20C24SS	20.00 x 24.00 x 13.09	(508 x 610 x 332)	11.62 (295)	20.28 (515)	24.28 (617)	22.62 (575)	18.62 (473)	17.84 (453)
C20C30SS	20.00 x 30.00 x 13.09	(508 x 762 x 332)	11.62 (295)	20.28 (515)	30.28 (769)	28.62 (727)	18.62 (473)	17.84 (453)

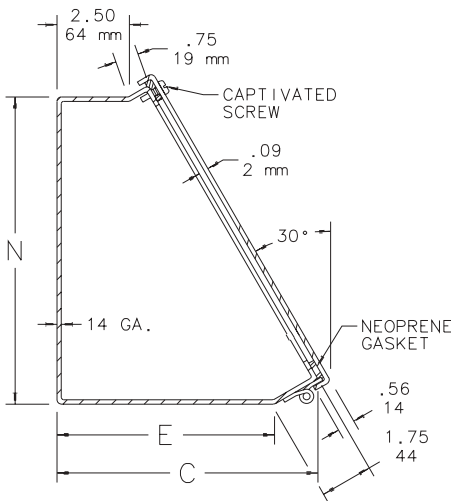
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



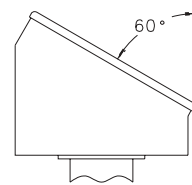
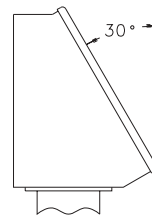
VIEW X-X



VIEW X-X  
with cover removed



SECTION Y-Y



C2760SS

# Extra-Deep 30.5mm Pushbutton Enclosures



## Application

Designed to hold 30.5mm oil-tight pushbuttons, switches, and pilot lights. Enclosures provide protection against dirt, dust, oil, and water. Extra deep design accommodates additional contact blocks for pushbuttons.

See Chapter 2, Operator Interface Enclosure Systems, for related mild steel enclosures.

## Construction

- 14 gauge bodies, 16 gauge covers Type 304 or Type 316 stainless steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Grounding stud in body of enclosure
- 4-way pushbutton holes accept all brands of oil-tight pushbuttons, switches, and pilot lights
- Enclosures 6.00 x 4.00 x 4.75 in. (152 x 102 x 121mm) and larger have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Oil-resistant gasket and adhesive

## Finish

Stainless steel enclosures are unpainted; cover and sides of body have smooth #4 brushed finish.

## Industry Standards

UL 508A, 508 File Number E61997: Type 4, Type 4X and Type 12  
 NEMA/EEMAC Type 4X, Type 12 and Type 13  
 JIC Standard EGP-1-1967  
 CSA File Number LR42186: Type 4, Type 4X, and Type 12  
 IEC 60529, IP66

## Accessories

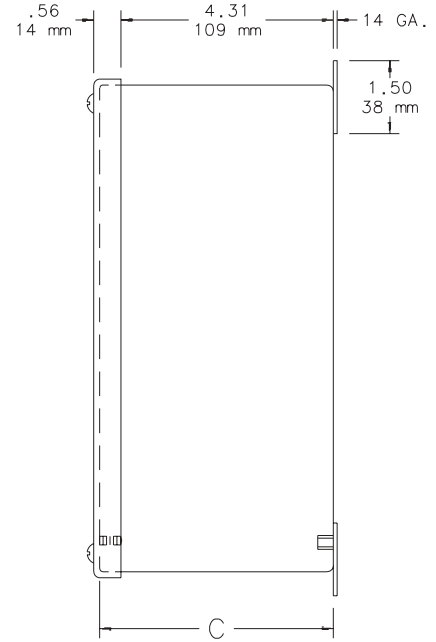
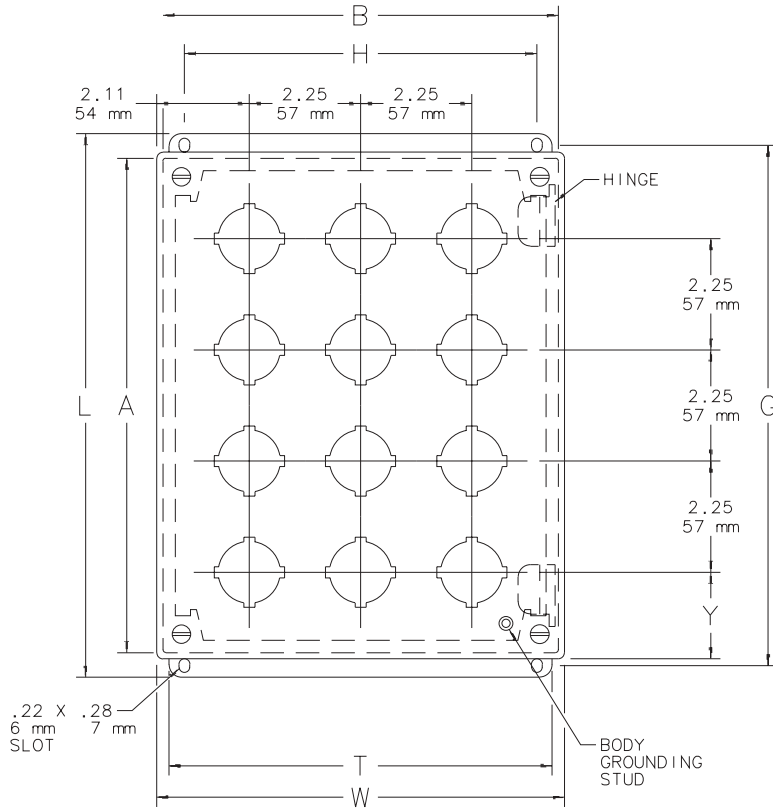
See Chapter 12, General Accessories.

Corrosion Inhibitors  
 Oil-Tight Hole Seals  
 Pedestals  
 Tamper Resistant Screws

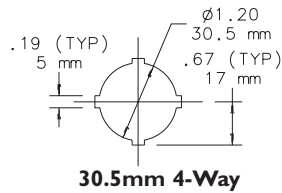
## Standard Sizes Extra-Deep 30.5mm Pushbutton Enclosures

Enclosure Catalog Number		Gauge	Number of Holes	Enclosure Size A x B x C	Mounting G x H	Overall		T	Y
Type 304 Stainless Steel	Type 316 Stainless Steel					L x W			
E1PBXSS	—	16	1	4.00 x 4.00 x 4.75 (102 x 102 x 121)	4.50 x 3.12 (114 x 79)	5.00 x 4.22 (127 x 107)	3.75 (95)	2.11 (54)	
E2PBXSS	—	14	2	6.00 x 4.00 x 4.75 (152 x 102 x 121)	6.50 x 3.12 (165 x 79)	7.00 x 4.22 (178 x 107)	3.75 (95)	1.98 (50)	
E3PBXSS	—	14	3	8.00 x 4.00 x 4.75 (203 x 102 x 121)	8.50 x 3.12 (216 x 79)	9.00 x 4.22 (229 x 107)	3.75 (95)	1.86 (47)	
E4PBXSS	—	14	4	10.00 x 4.00 x 4.75 (254 x 102 x 121)	10.50 x 3.12 (267 x 79)	11.00 x 4.22 (279 x 107)	3.75 (95)	1.73 (44)	
E16PBXSS	E16PBXSS6	14	16	11.75 x 10.75 x 4.75 (298 x 273 x 121)	12.25 x 9.88 (311 x 251)	12.75 x 10.97 (324 x 279)	10.50 (267)	2.61 (66)	

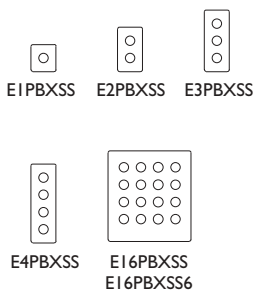
Millimeter dimensions ( ) are for reference only; do not convert metric to inch.



C2664SS



**Hole Arrangement**





# 30.5mm and 22.5mm Pushbutton Enclosures



## Application

Designed to hold 30.5mm or 22.5mm oil-tight pushbuttons, switches, and pilot lights. Enclosures provide protection against dirt, dust, oil, and water.

See Chapter 2, Operator Interface Enclosure Systems, for related mild steel enclosures.

## Construction

- 14 gauge bodies, 16 gauge covers Type 304 or Type 316 stainless steel
- Seams continuously welded and ground smooth
- Captivated cover screws thread into sealed wells
- Grounding stud in body of enclosure
- 4-way pushbutton holes accept all brands of oil-tight pushbuttons, switches, and pilot lights
- Enclosures with more than one column of pushbutton holes have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Oil-resistant gasket and adhesive

## Finish

Stainless steel enclosures are unpainted; cover and sides of body have smooth #4 brushed finish.

## Industry Standards

UL 508A, 508, File Number E61997: Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 4X, Type 12 and Type 13  
 JIC Standard EGP-1-1967  
 CSA File Number LR42186: Type 4, Type 4X and Type 12  
 IEC 60529, IP66

## Accessories

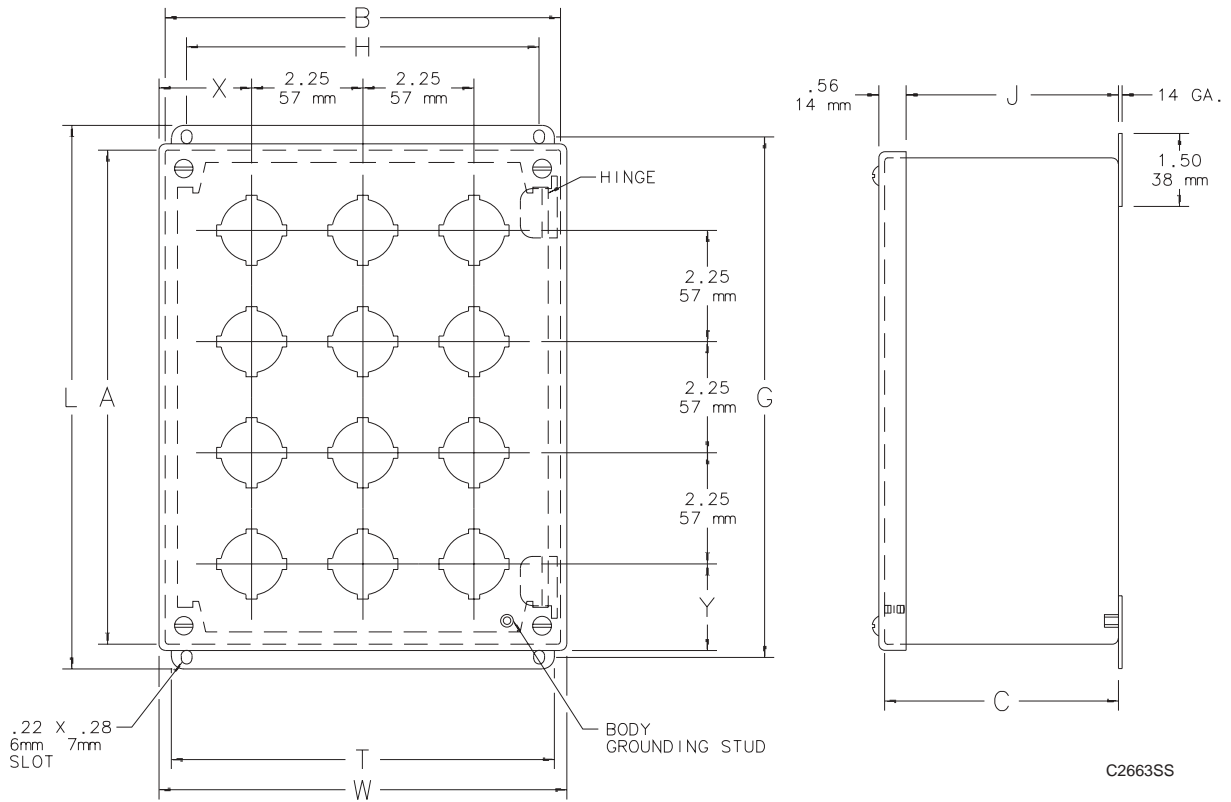
See Chapter 12, General Accessories.

Corrosion Inhibitors  
 Oil-Tight Hole Seals  
 Pedestals  
 Tamper Resistant Screws

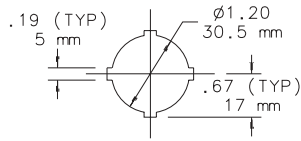
## Standard Sizes 30.5mm and 22.5mm Pushbutton Enclosures

Enclosure Catalog Number (30.5mm Hole)		Enclosure Catalog Number (22.5mm Hole)		Number of Holes	Enclosure Size A x B x C	Mounting G x H	Overall L x W	J	T	X	Y
Type 304 Stainless Steel	Type 316 Stainless Steel	Type 304 Stainless Steel	Gauge								
E1PBSS	E1PBSS6	E1PBGSS	16	1	3.50 x 3.25 x 2.75 (89 x 83 x 70)	4.00 x 2.38 (102 x 60)	4.50 x 3.47 (114 x 88)	2.31 (59)	3.00 (76)	1.73 (47)	1.86 (47)
E2PBSS	E2PBSS6	E2PBGSS	16	2	5.75 x 3.25 x 2.75 (146 x 83 x 70)	6.25 x 2.38 (159 x 60)	6.75 x 3.47 (171 x 88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
E3PBSS	E3PBSS6	E3PBGSS	14	3	8.00 x 3.25 x 2.75 (203 x 83 x 70)	8.50 x 2.38 (216 x 60)	9.00 x 3.47 (229 x 88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
E4PBSS	E4PBSS6	E4PBGSS	14	4	10.25 x 3.25 x 2.75 (260 x 83 x 70)	10.75 x 2.38 (273 x 60)	11.25 x 3.47 (286 x 88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
E6PBSS	E6PBSS6	E6PBGSS	14	6	9.50 x 6.25 x 3.00 (241 x 159 x 76)	10.00 x 5.38 (254 x 137)	10.50 x 6.47 (267 x 164)	2.56 (65)	6.00 (152)	2.11 (54)	2.61 (66)
E9PBSS	E9PBSS6	E9PBGSS	14	9	9.50 x 8.50 x 3.00 (241 x 216 x 76)	10.00 x 7.62 (254 x 194)	10.50 x 8.72 (267 x 221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)
E12PBSS	E12PBSS6	E12PBGSS	14	12	11.75 x 8.50 x 3.00 (298 x 216 x 76)	12.25 x 7.62 (311 x 194)	12.75 x 8.72 (324 x 221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)

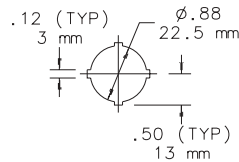
Millimeter dimensions ( ) are for reference only; do not convert metric to inch.



C2663SS

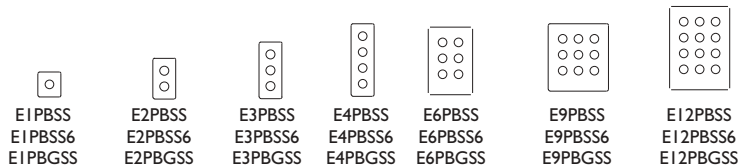


**30.5mm 4-Way**



**22.5mm 4-Way**

**Hole Arrangement**



# 22.5mm Pushbutton Stainless Steel Enclosures



### Application

Designed to hold 22.5mm oil-tight pushbuttons, switches, and pilot lights. Enclosures provide protection against dust, dirt, oil, and water. Stainless steel enclosures also afford a high degree of protection in areas that may be regularly hosed down or are otherwise exposed to wet conditions.

### Construction

- Type 304 16 or 14 gauge stainless steel enclosures
- Seams continuously welded and ground smooth
- Captivated stainless steel cover screws thread into sealed wells
- Enclosures 8.50 x 4.00 x 4.75 in. (216 x 102 x 121mm) and larger have internal detachable hinge to hold cover open during wiring, yet permit immediate removal
- Grounding nut in body of enclosure
- Oil-resistant gasket provides an effective seal

### Finish

Enclosures are unpainted; covers and sides of body have a smooth #4 brushed finish.

### Industry Standards

UL 508A, 508, File Number E61997: Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 4X, Type 12, and Type 13  
CSA File Number LR42186: Type 4, Type 4X, and Type 12  
IEC 60529, IP66

### Accessories

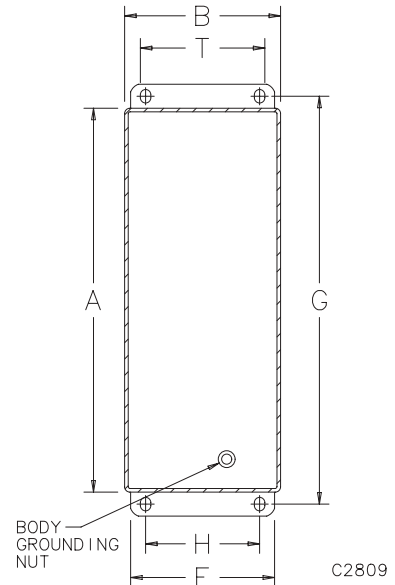
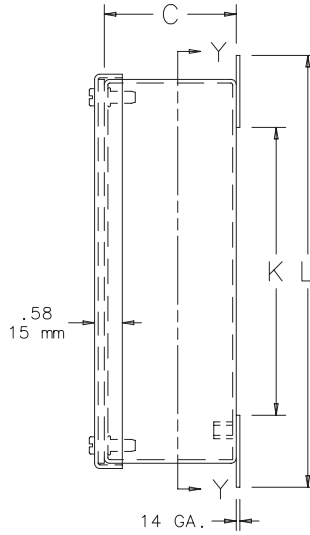
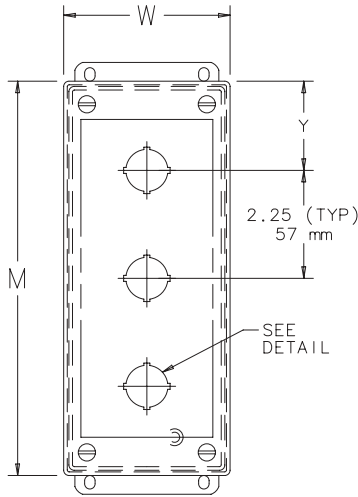
See Chapter 12, General Accessories.

- Oil-Tight Hole Seals
- Pedestals
- Tamper Resistant Screws

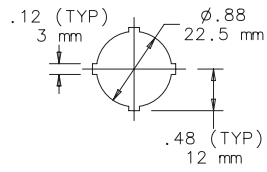
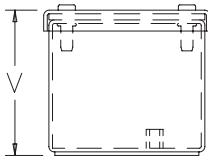
## Standard Sizes 22.5mm Pushbutton Stainless Steel Enclosures

Enclosure Catalog Number	Gauge	Holes	Enclosure Size A x B x C	Mounting G x H	Overall L x W	F	K	M	T	V	Y
E1PBGXSS	16	1	4.00 x 4.00 x 4.75 (102 x 102 x 121)	4.50 x 3.13 (114 x 80)	5.00 x 4.22 (127 x 107)	3.75 (95)	2.00 (51)	4.22 (85)	3.34 (85)	5.00 (0)	—
E2PBGXSS	14	2	6.00 x 4.00 x 4.75 (152 x 102 x 121)	6.50 x 3.13 (165 x 80)	7.00 x 4.22 (178 x 107)	3.75 (95)	4.00 (102)	6.22 (158)	3.34 (85)	5.00 (127)	1.98 (50)
E3PBGXSS	14	3	8.00 x 4.00 x 4.75 (203 x 102 x 121)	8.50 x 3.13 (216 x 80)	9.00 x 4.22 (229 x 107)	3.75 (95)	6.00 (152)	8.22 (209)	3.34 (85)	5.00 (127)	1.86 (47)
E4PBGXSS	14	4	10.00 x 4.00 x 4.75 (254 x 102 x 121)	10.50 x 3.13 (267 x 80)	11.00 x 4.22 (270 x 107)	3.75 (95)	8.00 (203)	10.22 (260)	3.34 (85)	5.00 (127)	1.73 (44)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



SECTION Y-Y



22.5mm 4-WAY

**Hole Arrangement**



# CONCEPT® Stainless Steel Wall-Mount Enclosures



## Application

The CONCEPT® stainless steel enclosure, with its streamlined design and Type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in a variety of indoor and outdoor settings. It is typically used in the following areas where corrosion-resistant protection is needed: food processing plants, pharmaceutical manufacturing facilities, petrochemical plants, pulp and paper processing, and water treatment facilities.

See Chapter 11, EMC Enclosures, for information on a related EMC-shielded product.

Patents:  
 Combined Handle and Lock Unit  
 360,345 (U.S.)  
 DEM 9405854.7 (Germany)  
 Enclosure Latch 5,509,703 (U.S.)  
 Hinge System 5,666,695 (U.S.)

Other patents pending.

## Construction

- Manufactured from 16 or 14 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth
- Minimum width body flange provides maximum door opening
- Body flange trough excludes liquids and contaminants
- Panel mounting studs fit optional CONCEPT® panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Type 304 stainless steel hidden hinges promote clean aesthetic appearance
- Standard full access door opening
- Doors are interchangeable and easily removable by pulling captive hinge pins
- For extra rigidity, door bars furnished on doors 36.00 x 36.00 in.(914mm) and larger
- Provision on door (except window door style) for thermoplastic data pocket
- Provision on door (except window door style) for optional doorstop kit
- Quarter-turn latches (or a 3-point latch system on larger enclosures) furnished with flush slotted insert. Optional handles or inserts are available.
- Window door enclosures have a clear polycarbonate window mounted flush with door surface
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Self-grounding latch system with double seal provides maximum protection against leakage
- Integral body grounding stud
- Furnished hardware kit consists of panel mounting nuts, panel grounding hardware, and sealing washers for wall-mounting holes
- Installation instructions for enclosure and accessories are provided

## Finish

Enclosures are unpainted. Door and body have smooth #4 brushed finish.

- Optional CONCEPT® panels are white painted or zinc-plated.
- Optional NEMA panels are white painted, zinc-plated, aluminum, or stainless steel.

## Industry Standards

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 VDE IP66  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Corrosion Inhibitors  
 Data Pocket (except window door style)  
 DIN3 Rails  
 Door Stop Kit (except window door style)  
 Lighting Kits  
 Mounting Brackets  
 Panels (see table)  
 Panels, NEMA  
 Terminal Block Kit Assembly  
 Thermal Accessories

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

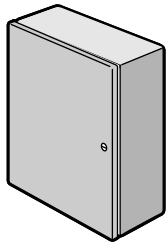
- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

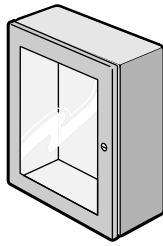
To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

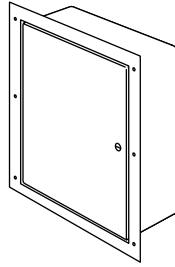
The **CONCEPT®** Enclosure Group **Accessory Selection Guide** See Chapter 12, General Accessories: **CONCEPT®** Enclosure Accessories



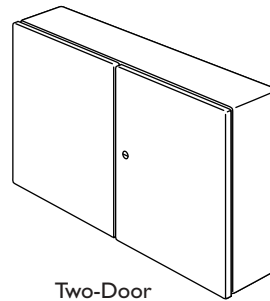
Steel or  
**Stainless Steel**  
Enclosures



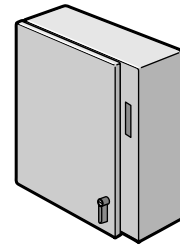
Steel or  
**Stainless Steel**  
**Window-Door**  
Enclosures



Flush Mount  
Enclosures



Two-Door  
Enclosures



Steel or  
**Stainless Steel**  
**Disconnect**  
Enclosures

**Internal Accessories**

Steel Panel

Swing-Out Panel

Panel Conversion Kit

Swing-Out Rack Frame

Dead Front Kit

Adjustable Depth Mounting Kit

Mounting Channels

DIN3 Rail Kit

Grid Straps

Rack Mounting Angles

**Door Accessories**

Door Stop Kit

Data Pocket

Handles and Latches

Key Inserts

**External Accessories**

Mounting Bracket Kit

Pole Mounting Kit

11C59754

Stainless steel strap with galvanized unistrut.



A Pentair Company

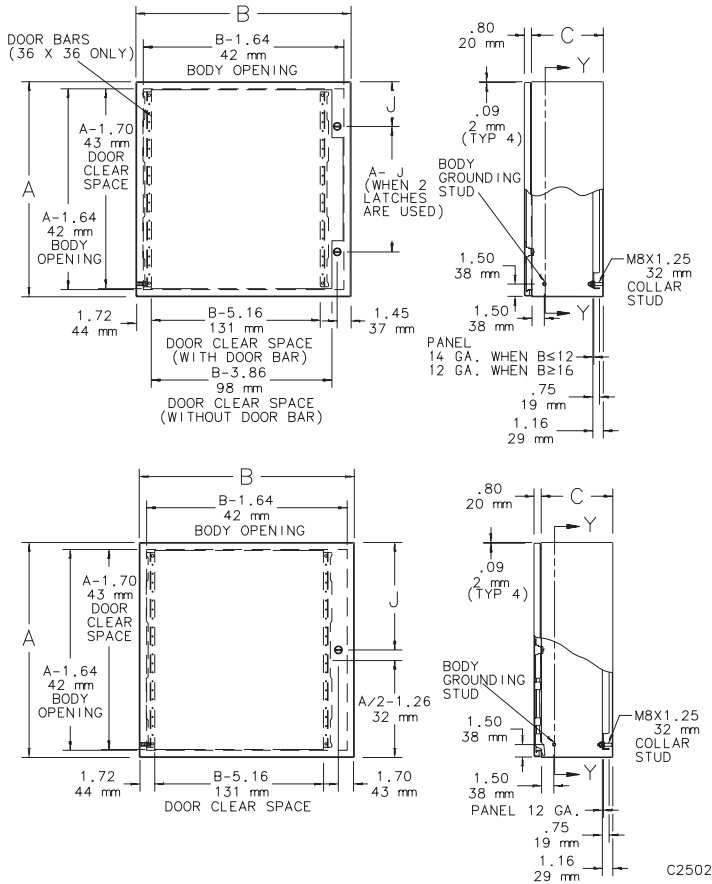
# CONCEPT® Stainless Steel Wall-Mount Enclosures

## Standard Sizes CONCEPT® Stainless Steel Single-Door Wall-Mount Enclosures

Type 304 Catalog Number	Type 316L Catalog Number	Door Gauge	Body Gauge	Enclosure Size A x B x C	* CONCEPT® Panel Catalog Number	Panel Size D x E	Mounting G x H	Latches qty	style	J
CSD12126SS	CSD12126SS6	16	16	12.00 x 12.00 x 6.00 (305 x 305 x 152)	CP1212	10.20 x 10.20 (259 x 259)	10.50 x 10.50 (267 x 267)	1	Quarter-turn	6.00 (152)
CSD16126SS	CSD16126SS6	16	16	16.00 x 12.00 x 6.00 (406 x 305 x 152)	CP1612	14.20 x 10.20 (361 x 259)	14.50 x 10.50 (368 x 267)	1	Quarter-turn	8.00 (203)
CSD16166SS	CSD16166SS6	16	16	16.00 x 16.00 x 6.00 (406 x 406 x 152)	CP1616	14.20 x 14.20 (361 x 361)	14.50 x 14.50 (368 x 368)	1	Quarter-turn	8.00 (203)
CSD20166SS	CSD20166SS6	16	16	20.00 x 16.00 x 6.00 (508 x 406 x 152)	CP2016	18.20 x 14.50 (462 x 361)	18.50 x 14.50 (470 x 368)	1	Quarter-turn	10.00 (254)
CSD20206SS	CSD20206SS6	16	16	20.00 x 20.00 x 6.00 (508 x 508 x 152)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	1	Quarter-turn	10.00 (254)
CSD16128SS	CSD16128SS6	16	16	16.00 x 12.00 x 8.00 (406 x 305 x 203)	CP1612	14.20 x 10.20 (361 x 259)	14.50 x 10.50 (368 x 267)	1	Quarter-turn	8.00 (203)
CSD16168SS	CSD16168SS6	16	16	16.00 x 16.00 x 8.00 (406 x 406 x 203)	CP1616	14.20 x 14.20 (361 x 361)	14.50 x 14.50 (368 x 368)	1	Quarter-turn	8.00 (203)
CSD16208SS	CSD16208SS6	16	16	16.00 x 20.00 x 8.00 (406 x 508 x 203)	CP2016	18.20 x 14.20 (462 x 361)	14.50 x 18.50 (368 x 470)	1	Quarter-turn	8.00 (203)
CSD20168SS	CSD20168SS6	16	16	20.00 x 16.00 x 8.00 (508 x 406 x 203)	CP2016	18.20 x 14.20 (462 x 361)	18.50 x 14.50 (470 x 368)	1	Quarter-turn	10.00 (254)
CSD20208SS	CSD20208SS6	16	16	20.00 x 20.00 x 8.00 (508 x 508 x 203)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	1	Quarter-turn	10.00 (254)
CSD24168SS	CSD24168SS6	16	16	24.00 x 16.00 x 8.00 (610 x 406 x 203)	CP2416	22.20 x 14.20 (564 x 361)	22.50 x 14.50 (572 x 368)	1	Quarter-turn	12.00 (305)
CSD24208SS	CSD24208SS6	16	16	24.00 x 20.00 x 8.00 (610 x 508 x 203)	CP2420	22.20 x 18.20 (564 x 462)	22.50 x 18.50 (572 x 470)	1	Quarter-turn	12.00 (305)
CSD24248SS	CSD24248SS6	14	16	24.00 x 24.00 x 8.00 (610 x 610 x 203)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 22.50 (572 x 572)	2	Quarter-turn	5.00 (127)
CSD30248SS	CSD30248SS6	14	16	30.00 x 24.00 x 8.00 (762 x 610 x 8.00)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	2	Quarter-turn	5.00 (127)
CSD30308SS	CSD30308SS6	14	14	30.00 x 30.00 x 8.00 (762 x 762 x 203)	CP3030	28.20 x 28.20 (716 x 716)	28.50 x 28.50 (724 x 724)	2	Quarter-turn	5.00 (127)
CSD36248SS	CSD36248SS6	14	16	36.00 x 24.00 x 8.00 (914 x 610 x 203)	CP3624	34.20 x 22.20 (869 x 564)	34.50 x 22.50 (876 x 572)	2	Quarter-turn	5.00 (127)
CSD36308SS	CSD36308SS6	14	14	36.00 x 30.00 x 8.00 (914 x 762 x 203)	CP3630	34.20 x 28.20 (869 x 716)	34.50 x 28.50 (876 x 724)	2	Quarter-turn	5.00 (127)
CSD161210SS	CSD161210SS6	16	16	16.00 x 12.00 x 10.00 (406 x 305 x 254)	CP1612	14.20 x 10.20 (361 x 259)	14.50 x 10.50 (368 x 267)	1	Quarter-turn	8.00 (203)
CSD161610SS	CSD161610SS6	16	16	16.00 x 16.00 x 10.00 (406 x 406 x 254)	CP1616	14.20 x 14.20 (361 x 361)	14.50 x 14.50 (368 x 368)	1	Quarter-turn	8.00 (203)
CSD162010SS	CSD162010SS6	16	16	16.00 x 20.00 x 10.00 (406 x 508 x 254)	CP2016	18.20 x 14.20 (462 x 361)	14.50 x 18.50 (368 x 470)	1	Quarter-turn	8.00 (203)
CSD201610SS	CSD201610SS6	16	16	20.00 x 16.00 x 10.00 (508 x 406 x 254)	CP2016	18.20 x 14.20 (462 x 361)	18.50 x 14.50 (470 x 368)	1	Quarter-turn	10.00 (254)
CSD202010SS	CSD202010SS6	16	16	20.00 x 20.00 x 10.00 (508 x 508 x 254)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	1	Quarter-turn	10.00 (254)
CSD202410SS	CSD202410SS6	16	16	20.00 x 24.00 x 10.00 (508 x 610 x 254)	CP2420	22.20 x 18.20 (564 x 462)	18.50 x 22.50 (470 x 572)	1	Quarter-turn	10.00 (254)
CSD241610SS	CSD241610SS6	16	16	24.00 x 16.00 x 10.00 (610 x 406 x 254)	CP2416	22.20 x 14.20 (564 x 361)	22.50 x 14.50 (572 x 368)	1	Quarter-turn	12.00 (305)
CSD242010SS	CSD242010SS6	16	16	24.00 x 20.00 x 10.00 (610 x 508 x 254)	CP2420	22.20 x 18.20 (564 x 462)	22.50 x 18.50 (572 x 470)	1	Quarter-turn	12.00 (305)
CSD242410SS	CSD242410SS6	14	16	24.00 x 24.00 x 10.00 (610 x 610 x 254)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 22.50 (572 x 572)	2	Quarter-turn	5.00 (127)
CSD243010SS	CSD243010SS6	14	16	24.00 x 30.00 x 10.00 (610 x 762 x 254)	CP3024	28.20 x 22.20 (716 x 564)	22.50 x 28.50 (572 x 724)	2	Quarter-turn	5.00 (127)
CSD302010SS	CSD302010SS6	14	16	30.00 x 20.00 x 10.00 (762 x 508 x 254)	CP3020	28.20 x 18.20 (716 x 462)	28.50 x 18.50 (724 x 470)	2	Quarter-turn	5.00 (127)
CSD302410SS	CSD302410SS6	14	16	30.00 x 24.00 x 10.00 (762 x 610 x 254)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	2	Quarter-turn	5.00 (127)
CSD303010SS	CSD303010SS6	14	14	30.00 x 30.00 x 10.00 (762 x 762 x 254)	CP3030	28.20 x 28.20 (716 x 716)	28.50 x 28.50 (724 x 724)	2	Quarter-turn	5.00 (127)
CSD362410SS	CSD362410SS6	14	16	36.00 x 24.00 x 10.00 (914 x 610 x 254)	CP3624	34.20 x 22.20 (869 x 564)	34.50 x 22.50 (876 x 572)	2	Quarter-turn	5.00 (127)
CSD363010SS	CSD363010SS6	14	14	36.00 x 30.00 x 10.00 (914 x 762 x 254)	CP3630	34.20 x 28.20 (869 x 716)	34.50 x 28.50 (876 x 724)	2	Quarter-turn	5.00 (127)
CSD363610SS	CSD363610SS6	14	14	36.00 x 36.00 x 10.00 (914 x 914 x 254)	CP3636	34.20 x 34.20 (869 x 869)	34.50 x 34.50 (876 x 876)	2	Quarter-turn	5.00 (127)
CSD423610SS	CSD423610SS6	14	14	42.00 x 36.00 x 10.00 (1067 x 762 x 254)	CP4236	40.20 x 34.20 (1021 x 869)	40.50 x 34.50 (1029 x 876)	1	3-point	21.00 (533)

Continued on next page

■ **CONCEPT® Stainless Steel Single-Door Wall-Mount Enclosures**



**Single-Door Enclosure with Quarter-turn Latching**

Data Pockets for Solid Door Enclosures		
Enclosure Size		
A	B	Pocket
Any	12.00 (305)	None
<30.00 (762)	>12 and <20.00 (508)	Small
>30.00 (762)	>20.00 (508)	Large

**Single-Door Enclosure with 3-Point Latching**

For Section Y-Y see page 6.25.

**Standard Sizes CONCEPT® Stainless Steel Single-Door Wall-Mount Enclosures (Cont.)**

Type 304 Catalog Number	Type 316L Catalog Number	Door Gauge	Body Gauge	Enclosure Size A x B x C	* CONCEPT® Panel Catalog Number	Panel Size D x E	Mounting G x H	Latches qty	style	J
CSD482410SS	CSD482410SS6	14	14	48.00 x 24.00 x 10.00 (1219 x 610 x 254)	CP4824	46.20 x 22.20 (1173 x 564)	46.50 x 22.50 (1181 x 572)	1	3-point	24.00 (610)
CSD483610SS	CSD483610SS6	14	14	48.00 x 36.00 x 10.00 (1219 x 762 x 254)	CP4836	46.20 x 34.20 (1173 x 869)	46.50 x 34.50 (1181 x 876)	1	3-point	24.00 (610)
CSD603610SS	CSD603610SS6	14	14	60.00 x 36.00 x 10.00 (1524 x 914 x 254)	CP6036	58.20 x 34.20 (1478 x 869)	58.50 x 34.50 (1486 x 876)	1	3-point	30.00 (762)
CSD202012SS	CSD202012SS6	14	14	20.00 x 20.00 x 12.00 (508 x 508 x 305)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	1	Quarter-turn	10.00 (254)
CSD242412SS	CSD242412SS6	14	14	24.00 x 24.00 x 12.00 (610 x 610 x 305)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 22.50 (572 x 572)	2	Quarter-turn	5.00 (127)
CSD302412SS	CSD302412SS6	14	14	30.00 x 24.00 x 12.00 (762 x 610 x 305)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	2	Quarter-turn	5.00 (127)
CSD362412SS	CSD362412SS6	14	14	36.00 x 24.00 x 12.00 (914 x 610 x 305)	CP3624	34.20 x 22.20 (869 x 564)	34.50 x 22.50 (876 x 572)	2	Quarter-turn	5.00 (127)
CSD363012SS	CSD363012SS6	14	14	36.00 x 30.00 x 12.00 (914 x 762 x 305)	CP3630	34.20 x 28.20 (869 x 716)	34.50 x 28.50 (876 x 724)	2	Quarter-turn	5.00 (127)
CSD363612SS	CSD363612SS6	14	14	36.00 x 36.00 x 12.00 (914 x 914 x 305)	CP3636	34.20 x 34.20 (869 x 869)	34.50 x 34.50 (876 x 876)	2	Quarter-turn	5.00 (127)
CSD423612SS	CSD423612SS6	14	14	42.00 x 36.00 x 12.00 (1067 x 914 x 305)	CP4236	40.20 x 34.20 (1021 x 869)	40.50 x 34.50 (1029 x 876)	1	3-point	21.00 (533)
CSD483612SS	CSD483612SS6	14	14	48.00 x 36.00 x 12.00 (1219 x 914 x 305)	CP4836	46.20 x 34.20 (1173 x 869)	46.50 x 34.50 (1181 x 876)	1	3-point	24.00 (610)
CSD603612SS	CSD603612SS6	14	14	60.00 x 36.00 x 12.00 (1524 x 914 x 305)	CP6036	58.20 x 34.20 (869 x 462)	58.50 x 34.50 (1486 x 876)	1	3-point	30.00 (762)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional zinc-plated CONCEPT® panels available for most sizes. Optional NEMA size steel and stainless steel panels require conversion kit catalog number CCPM4 (see Chapter 12, General Accessories).

NOTE: Panels have a formed flange along any side that is longer than 22.20 in. (564mm). CP2420 and CP2424 have a flange on all four sides.





A Pentair Company

# CONCEPT® Stainless Steel Wall-Mount Enclosures

## Standard Sizes CONCEPT® Stainless Steel Single-Door Wall-Mount Enclosures with Windows

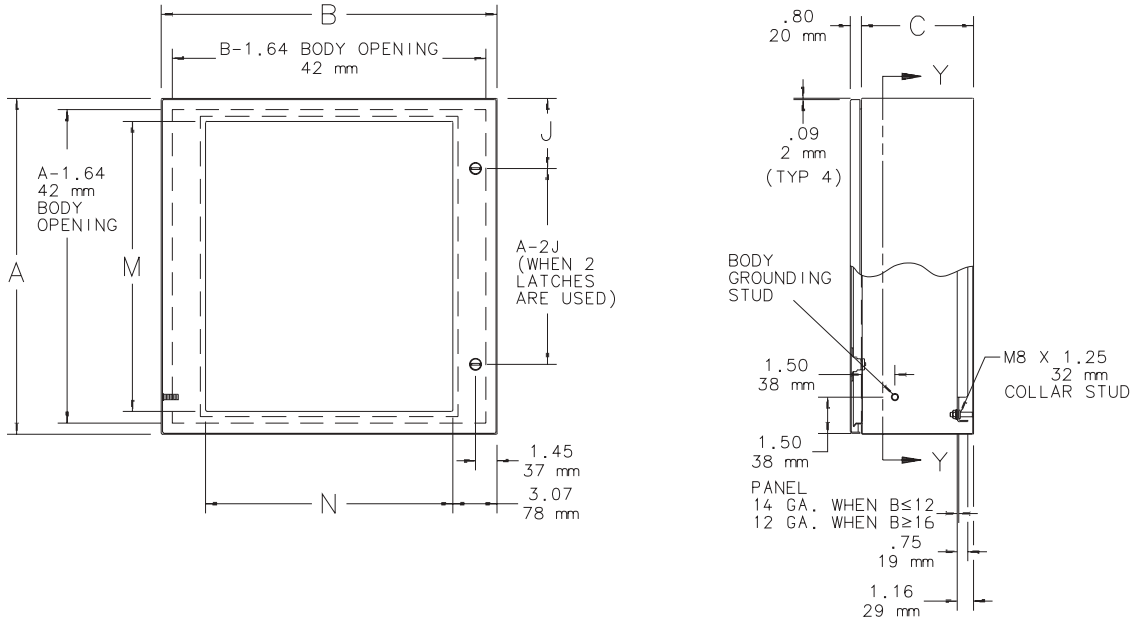
Type 304 Catalog Number	Door Gauge	Body Gauge	Enclosure Size A x B x C	*CONCEPT® Panel Catalog Number	Panel Size D x E	Mounting G x H	Window Size M x N	Latches qty	Latches style	J
CSD12126WSS	16	16	12.00 x 12.00 x 6.00 (305 x 305 x 152)	CP1212	10.20 x 10.20 (259 x 259)	10.50 x 10.50 (267 x 267)	8.74 x 7.10 (222 x 180)	1	Quarter-turn	6.00 (152)
CSD16126WSS	16	16	16.00 x 12.00 x 6.00 (406 x 305 x 152)	CP1612	14.20 x 10.20 (361 x 259)	14.50 x 10.50 (368 x 267)	12.74 x 7.10 (324 x 180)	1	Quarter-turn	8.00 (203)
CSD20166WSS	16	16	20.00 x 16.00 x 6.00 (508 x 406 x 152)	CP2016	18.20 x 14.20 (462 x 361)	18.50 x 14.50 (470 x 368)	16.74 x 11.10 (425 x 282)	1	Quarter-turn	10.00 (254)
CSD20206WSS	16	16	20.00 x 20.00 x 6.00 (508 x 508 x 152)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	16.74 x 15.10 (425 x 384)	1	Quarter-turn	10.00 (254)
CSD20168WSS	16	16	20.00 x 16.00 x 8.00 (508 x 406 x 203)	CP2016	18.20 x 14.20 (462 x 361)	18.50 x 14.50 (470 x 368)	16.74 x 11.10 (425 x 282)	1	Quarter-turn	10.00 (254)
CSD20208WSS	16	16	20.00 x 20.00 x 8.00 (508 x 508 x 203)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	16.74 x 15.10 (425 x 384)	1	Quarter-turn	10.00 (254)
CSD24208WSS	16	16	24.00 x 20.00 x 8.00 (610 x 508 x 203)	CP2420	22.20 x 18.20 (564 x 462)	22.50 x 18.50 (572 x 470)	20.74 x 15.10 (527 x 384)	1	Quarter-turn	12.00 (305)
CSD24248WSS	14	16	24.00 x 24.00 x 8.00 (610 x 610 x 203)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 22.50 (572 x 572)	20.74 x 17.68 (527 x 449)	2	Quarter-turn	5.00 (127)
CSD30248WSS	14	16	30.00 x 24.00 x 8.00 (762 x 610 x 203)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	26.74 x 17.68 (679 x 449)	2	Quarter-turn	5.00 (127)
CSD161210WSS	16	16	16.00 x 12.00 x 10.00 (406 x 305 x 203)	CP1612	14.20 x 10.20 (361 x 259)	14.50 x 10.50 (368 x 267)	12.74 x 7.10 (324 x 180)	1	Quarter-turn	8.00 (203)
CSD201610WSS	16	16	20.00 x 16.00 x 10.00 (508 x 406 x 203)	CP2016	18.20 x 14.20 (462 x 361)	18.50 x 14.50 (470 x 368)	16.74 x 11.10 (425 x 282)	1	Quarter-turn	10.00 (254)
CSD202010WSS	16	16	20.00 x 20.00 x 10.00 (508 x 508 x 203)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	16.74 x 15.10 (425 x 384)	1	Quarter-turn	10.00 (254)
CSD242010WSS	16	16	24.00 x 20.00 x 10.00 (610 x 508 x 203)	CP2420	22.20 x 18.20 (564 x 462)	22.50 x 18.50 (572 x 470)	20.74 x 15.10 (527 x 384)	1	Quarter-turn	12.00 (305)
CSD242410WSS	14	16	24.00 x 24.00 x 10.00 (610 x 610 x 203)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 22.50 (572 x 572)	20.74 x 17.68 (527 x 449)	2	Quarter-turn	5.00 (127)
CSD302410WSS	14	16	30.00 x 24.00 x 10.00 (762 x 610 x 203)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	26.74 x 17.68 (679 x 449)	2	Quarter-turn	5.00 (127)
CSD202012WSS	14	16	20.00 x 20.00 x 12.00 (508 x 508 x 305)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 18.50 (470 x 470)	16.74 x 15.10 (425 x 384)	1	Quarter-turn	10.00 (254)
CSD302412WSS	14	16	30.00 x 24.00 x 12.00 (762 x 610 x 305)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 22.50 (724 x 572)	26.74 x 17.68 (679 x 449)	2	Quarter-turn	5.00 (127)

Millimeter dimensions ( ) are for reference only; do not convert metric to inch.

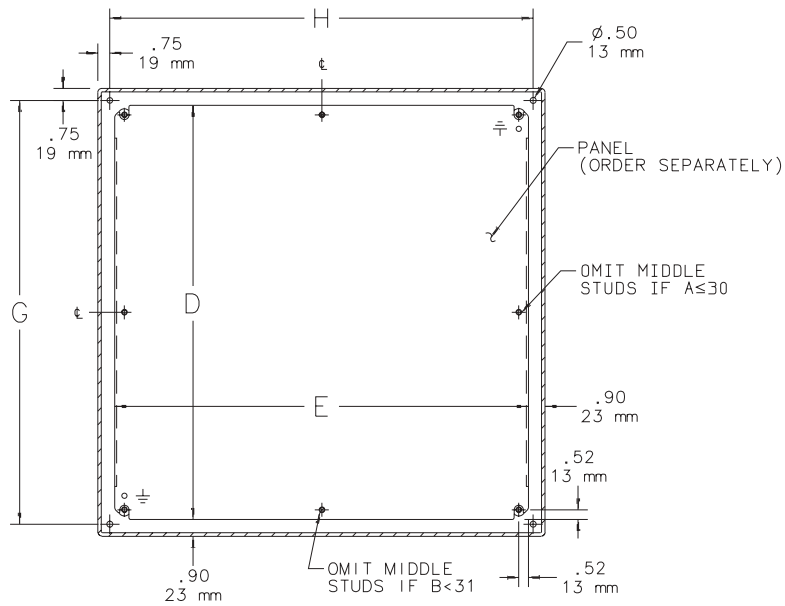
\* Panels must be ordered separately. Optional zinc-plated CONCEPT® panels available for most sizes. Optional NEMA size steel and stainless steel panels require conversion kit catalog number CCPM4 (see Chapter 12, General Accessories).

NOTE: Panels have a formed flange along any side that is longer than 22.20 in. (564mm). CP2420 and CP2424 have a flange on all four sides.

■ CONCEPT® Stainless Steel Single-Door Wall-Mount Enclosures with Windows



Window Door Enclosure with Quarter-turn Latching



SECTION Y-Y

(WITH CONCEPT® PANEL INSTALLED)

C2503

# Stainless Steel Type 4X Enclosures



## Application

Provides unmatched protection for housing electrical components in highly corrosive environments. This enclosure is used in indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants.

A wide variety of Type 316L stainless steel enclosures are available for applications requiring the additional protection of Type 316L material.

See Chapter 11, **EMC Enclosures**, for information on a related **EMC-shielded product**.

## Construction

- 14 gauge Type 304 or Type 316L stainless steel bodies and doors
- Seams continuously welded and ground smooth, no holes or knockouts
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Rolled lip around three sides of door and all sides of enclosure opening excludes liquids and contaminants
- Stainless steel door clamp assembly assures watertight seal
- Hasp and staple for padlocking
- Door removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Collar studs provided for mounting optional panels
- Exterior hardware on Type 316L stainless steel enclosures matches enclosure material

## Finish

Enclosures are unpainted. Door, sides, top, and bottom have smooth #4 brushed finish.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
JIC standard EGP-1-1967  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, *General Accessories*.

Electrical Interlocks  
Fast Operating Clamp Assembly  
Lighting Packages  
Panel Support Kit  
Panels (see order number table)  
Rack Mounting Angle Kit  
Swing-Out Panel Kit  
Terminal Block Kit Assembly  
Thermal Accessories  
Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes Stainless Steel Type 4X Enclosures**

Catalog Number Type 304	Catalog Number Type 316L	Enclosure Size A x B x C	* Steel Panel Catalog Number	* Stainless Steel Panel Catalog Number	Panel Size D x E	F	Clamps qty	Data Pocket
A16H1206SSLP	A16H1206SS6LP	16.00 x 12.00 x 6.00 (406 x 305 x 152)	A16P12	A16P12SS6	13.00 x 9.00 (330 x 229)	1.25 (32)	4	Small
A16H1606SSLP	A16H1606SS6LP	16.00 x 16.00 x 6.00 (406 x 406 x 152)	A16P16	A16P16SS6	13.00 x 13.00 (330 x 330)	3.00 (76)	4	Small
A16H2006SSLP	A16H2006SS6LP	16.00 x 20.00 x 6.00 (406 x 508 x 152)	A20P16	A20P16SS6	17.00 x 13.00 (432 x 330)	3.00 (76)	4	Small
A20H1606SSLP	A20H1606SS6LP	20.00 x 16.00 x 6.00 (508 x 406 x 152)	A20P16	A20P16SS6	17.00 x 13.00 (432 x 330)	3.00 (76)	4	Small
A20H2006SSLP	A20H2006SS6LP	20.00 x 20.00 x 6.00 (508 x 508 x 152)	A20P20	A20P20SS6	17.00 x 17.00 (432 x 432)	3.00 (76)	4	Small
A24H2006SSLP	A24H2006SS6LP	24.00 x 20.00 x 6.00 (610 x 508 x 152)	A24P20	A24P20SS6	21.00 x 17.00 (533 x 432)	3.00 (76)	5	Small
A24H2406SSLP	A24H2406SS6LP	24.00 x 24.00 x 6.00 (610 x 610 x 152)	A24P24	A24P24SS6	21.00 x 21.00 (533 x 533)	3.00 (76)	5	Small
A16H1208SSLP	A16H1208SS6LP	16.00 x 12.00 x 8.00 (406 x 305 x 203)	A16P12	A16P12SS6	13.00 x 9.00 (330 x 229)	1.25 (32)	4	Small
A20H1608SSLP	A20H1608SS6LP	20.00 x 16.00 x 8.00 (508 x 406 x 203)	A20P16	A20P16SS6	17.00 x 13.00 (432 x 330)	3.00 (76)	4	Small
A20H2008SSLP	A20H2008SS6LP	20.00 x 20.00 x 8.00 (508 x 508 x 203)	A20P20	A20P20SS6	17.00 x 17.00 (432 x 432)	3.00 (76)	4	Small
A20H2408SSLP	A20H2408SS6LP	20.00 x 24.00 x 8.00 (508 x 610 x 203)	A24P20	A24P20SS6	21.00 x 17.00 (533 x 432)	3.00 (76)	5	Small
A24H1608SSLP	A24H1608SS6LP	24.00 x 16.00 x 8.00 (610 x 406 x 203)	A24P16	A24P16SS6	21.00 x 13.00 (533 x 330)	3.00 (76)	4	Small
A24H2008SSLP	A24H2008SS6LP	24.00 x 20.00 x 8.00 (610 x 508 x 203)	A24P20	A24P20SS6	21.00 x 17.00 (533 x 432)	3.00 (76)	5	Small
A24H2408SSLP	A24H2408SS6LP	24.00 x 24.00 x 8.00 (610 x 610 x 203)	A24P24	A24P24SS6	21.00 x 21.00 (533 x 533)	3.00 (76)	5	Small
A24H3008SSLP	A24H3008SS6LP	24.00 x 30.00 x 8.00 (610 x 762 x 203)	A30P24	A30P24SS6	27.00 x 21.00 (686 x 533)	3.00 (76)	7	Large
A30H2008SSLP	A30H2008SS6LP	30.00 x 20.00 x 8.00 (762 x 508 x 203)	A30P20	A30P20SS6	27.00 x 17.00 (686 x 432)	3.00 (76)	5	Small
A30H2408SSLP	A30H2408SS6LP	30.00 x 24.00 x 8.00 (762 x 610 x 203)	A30P24	A30P24SS6	27.00 x 21.00 (686 x 533)	3.00 (76)	5	Large
A30H3008SSLP	A30H3008SS6LP	30.00 x 30.00 x 8.00 (762 x 762 x 203)	A30P30	A30P30SS6	27.00 x 27.00 (686 x 686)	3.00 (76)	7	Large

Continued on next page

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional aluminum and composite panels are available for many sizes. See General Accessories.

NOTE: Panels have a formed flange along any side that is longer than 21.00 in. (564mm). Panel A24P20 has a flange on all four sides.



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# Stainless Steel Type 4X Enclosures

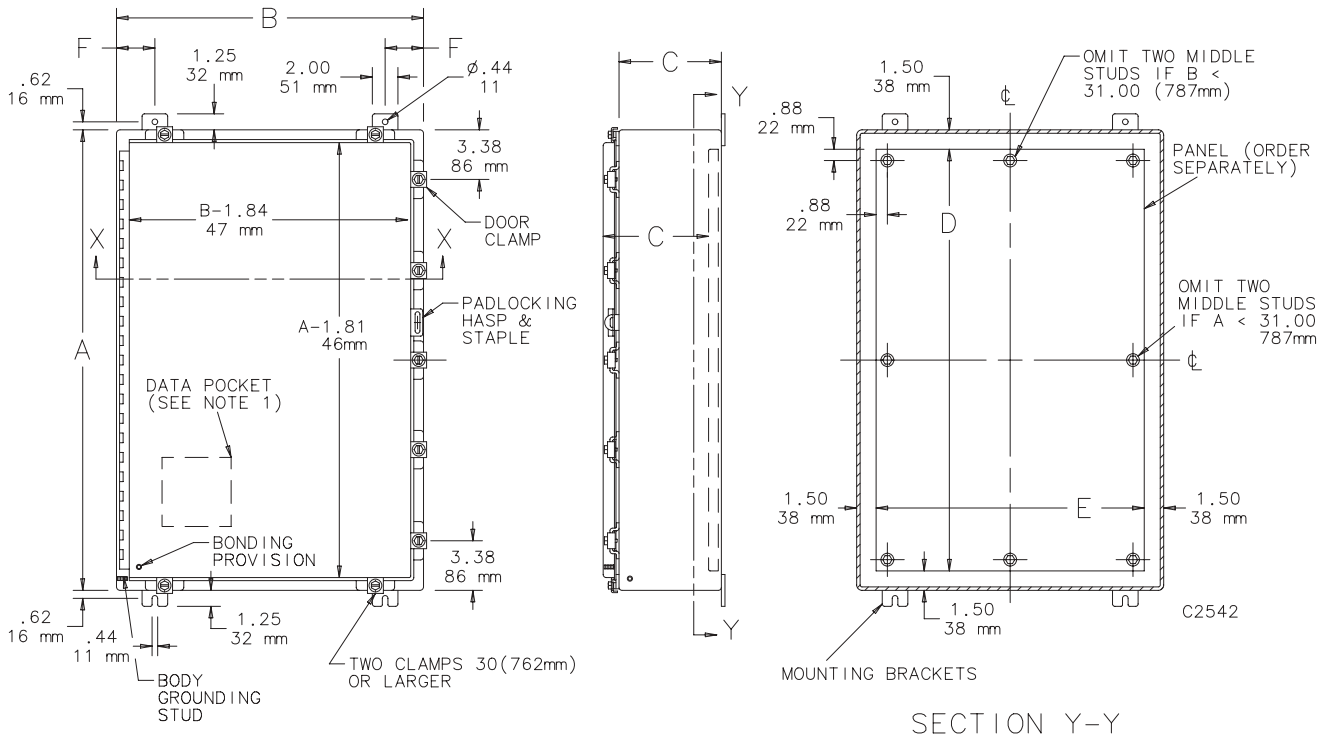
## Standard Sizes Stainless Steel Type 4X Enclosures (Cont.)

Catalog Number Type 304	Catalog Number Type 316L	Enclosure Size A x B x C	* Steel Panel Catalog Number	* Stainless Steel Panel Catalog Number	Panel Size D x E	F	Clamps qty	Data Pocket
A36H2408SSLP	A36H2408SS6LP	36.00 x 24.00 x 8.00 (914 x 610 x 203)	A36P24	A36P24SS6	33.00 x 21.00 (838 x 533)	3.00 (76)	5	Large
A36H3008SSLP	A36H3008SS6LP	36.00 x 30.00 x 8.00 (914 x 762 x 203)	A36P30	A36P30SS6	33.00 x 27.00 (838 x 686)	3.00 (76)	7	Large
A42H3608SSLP	A42H3608SS6LP	42.00 x 36.00 x 8.00 (1067 x 914 x 203)	A42P36	A42P36SS6	39.00 x 33.00 (991 x 838)	3.00 (76)	8	Large
A48H3608SSLP	A48H3608SS6LP	48.00 x 36.00 x 8.00 (1219 x 914 x 203)	A48P36	A48P36SS6	45.00 x 33.00 (1143 x 838)	3.00 (76)	8	Large
A20H1610SSLP	A20H1610SS6LP	20.00 x 16.00 x 10.00 (508 x 406 x 254)	A20P16	A20P16SS6	17.00 x 13.00 (432 x 330)	3.00 (76)	4	Small
A24H2010SSLP	A24H2010SS6LP	24.00 x 20.00 x 10.00 (610 x 508 x 254)	A24P20	A24P20SS6	21.00 x 17.00 (533 x 432)	3.00 (76)	5	Small
A30H2410SSLP	A30H2410SS6LP	30.00 x 24.00 x 10.00 (762 x 610 x 254)	A30P24	A30P24SS6	27.00 x 21.00 (686 x 533)	3.00 (76)	5	Large
A36H2410SSLP	A36H2410SS6LP	36.00 x 24.00 x 10.00 (914 x 610 x 254)	A36P24	A36P24SS6	33.00 x 21.00 (838 x 533)	3.00 (76)	5	Large
A36H3010SSLP	A36H3010SS6LP	36.00 x 30.00 x 10.00 (914 x 762 x 254)	A36P30	A36P30SS6	33.00 x 27.00 (838 x 686)	3.00 (76)	7	Large
A42H3010SSLP	A42H3010SS6LP	42.00 x 30.00 x 10.00 (1067 x 762 x 254)	A42P30	A42P30SS6	39.00 x 27.00 (991 x 686)	3.00 (76)	8	Large
A48H3610SSLP	A48H3610SS6LP	48.00 x 36.00 x 10.00 (1219 x 914 x 254)	A48P36	A48P36SS6	45.00 x 33.00 (1143 x 838)	3.00 (76)	8	Large
A24H2412SSLP	A24H2412SS6LP	24.00 x 24.00 x 12.00 (610 x 610 x 305)	A24P24	A24P24SS6	21.00 x 21.00 (533 x 533)	3.00 (76)	5	Small
A30H2412SSLP	A30H2412SS6LP	30.00 x 24.00 x 12.00 (762 x 610 x 305)	A30P24	A30P24SS6	27.00 x 21.00 (686 x 533)	3.00 (76)	5	Large
A36H3012SSLP	A36H3012SS6LP	36.00 x 30.00 x 12.00 (914 x 762 x 305)	A36P30	A36P30SS6	33.00 x 27.00 (838 x 686)	3.00 (76)	7	Large
A36H3612SSLP	A36H3612SS6LP	36.00 x 36.00 x 12.00 (914 x 914 x 305)	A36P36	A36P36SS6	33.00 x 33.00 (838 x 838)	3.00 (76)	7	Large
A48H3612SSLP	A48H3612SS6LP	48.00 x 36.00 x 12.00 (1219 x 914 x 305)	A48P36	A48P36SS6	45.00 x 33.00 (1143 x 838)	3.00 (76)	8	Large
A60H3612SSLP	A60H3612SS6LP	60.00 x 36.00 x 12.00 (1524 x 914 x 305)	A60P36	A60P36SS6	57.00 x 33.00 (1448 x 838)	3.00 (76)	9	Large
A30H2416SSLP	A30H2416SS6LP	30.00 x 24.00 x 16.00 (762 x 610 x 406)	A30P24	A30P24SS6	27.00 x 21.00 (686 x 533)	3.00 (76)	5	Large
A36H3016SSLP	A36H3016SS6LP	36.00 x 30.00 x 16.00 (914 x 762 x 406)	A36P30	A36P30SS6	33.00 x 27.00 (838 x 686)	3.00 (76)	7	Large
A48H3616SSLP	A48H3616SS6LP	48.00 x 36.00 x 16.00 (1219 x 914 x 406)	A48P36	A48P36SS6	45.00 x 33.00 (1143 x 838)	3.00 (76)	8	Large
A60H3616SSLP	A60H3616SS6LP	60.00 x 36.00 x 16.00 (1524 x 914 x 406)	A60P36	A60P36SS6	57.00 x 33.00 (1448 x 838)	3.00 (76)	9	Large

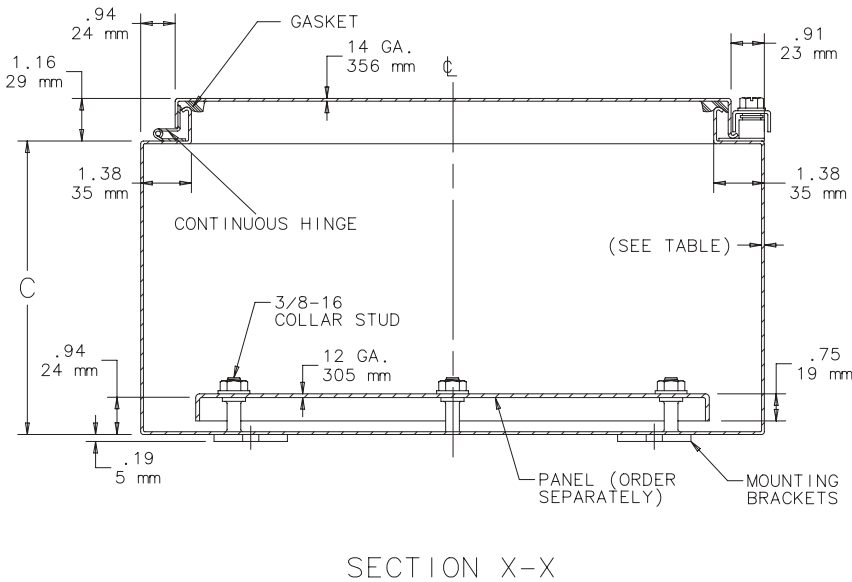
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional aluminum and composite panels are available for many sizes. See General Accessories.

NOTE: Panels have a formed flange along any side that is longer than 21.00 in. (564mm). Panel A24P20 has a flange on all four sides.



- NOTES:** 1. Removable data pocket included (see table for size). Large data pocket 12.00 x 12.00 in. (305 x 305mm); small data pocket 6.00 x 6.00 in. (152 x 152mm).  
2. Maximum spacing between door clamps is 15.00 in. (382mm).





A Pentair Company

Rev. B September 2003

# Stainless Steel Two-Door Wall-Mount Type 12 Enclosures



## Application

Intended for use housing electrical and electronic controls, instruments, components, and associated wiring, these enclosures incorporate double-hinged doors that provide convenient access. Three-point latching and sealing provide protection from dust, dirt, oil, and water.

## Construction

- 14 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Body stiffeners in larger enclosures for extra rigidity
- Rolled lip around all sides of enclosure door opening excludes liquids and contaminants
- Gasketed overlapping doors eliminate need for center post
- External mounting brackets
- Plated steel 3-point latching mechanism and keylocking handle
- Latch rods have rollers for easier door closing

- Doors easily removed by pulling heavy gauge continuous hinge pin
- Data pocket is high-impact thermoplastic
- Oil-resistant door gasket attached with oil-resistant adhesive and held in place with steel retaining strips
- Collar studs provided for mounting optional panels
- Ground studs in body of enclosure
- Bonding provision on doors

## Finish

Enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional steel panels are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 12  
NEMA/EEMAC Type 12  
JIC standard EGP-1-1967  
CSA File No. LR42186: Type 12  
IEC 60529, IP55

## Accessories

See Chapter 12, General Accessories.

- Electrical Interlocks
- Floor Stand Kit
- Lighting Kit
- Mounting Brackets
- Panel Support Kit
- Panels (see table)
- Terminal Block Kit Assembly
- Thermal Accessories
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Standard Sizes Stainless Steel Two Door Wall-Mount Type 12 Enclosures

Enclosure Catalog Number	Enclosure Size A x B x C		* Panel Catalog Number	Panel Gauge	Panel Size D x E		Y	
	inch	(millimeter)			inch	(mm)	inch	(mm)
A244208WFSSLP	24.00 x 42.00 x 8.00	(610 x 1067 x 203)	A42P24	12	39.00 x 21.00	(991 x 533)	1.50	(38)
A244808WFSSLP	24.00 x 48.00 x 8.00	(610 x 1219 x 203)	A48P24	12	45.00 x 21.00	(1143 x 533)	1.50	(38)
A304210WFSSLP	30.00 x 42.00 x 10.00	(762 x 1067 x 254)	A42P30	12	39.00 x 27.00	(991 x 686)	1.50	(38)
A304810WFSSLP	30.00 x 48.00 x 10.00	(762 x 1219 x 254)	A48P30	12	45.00 x 27.00	(1143 x 686)	1.50	(38)
A306010WFSSLP	30.00 x 60.00 x 10.00	(762 x 1524 x 254)	A60P30	12	57.00 x 27.00	(1448 x 686)	1.50	(38)
A364212WFSSLP	36.00 x 42.00 x 12.00	(914 x 1067 x 305)	A42P36	12	39.00 x 33.00	(991 x 838)	1.50	(38)
A364812WFSSLP	36.00 x 48.00 x 12.00	(914 x 1219 x 305)	A48P36	12	45.00 x 33.00	(1143 x 838)	1.50	(38)
A366012WFSSLP	36.00 x 60.00 x 12.00	(914 x 1524 x 305)	A60P36	12	57.00 x 33.00	(1448 x 838)	1.50	(38)
† A424212WFSSLP	42.00 x 42.00 x 12.00	(1067 x 1067 x 305)	A42P42	12	39.00 x 39.00	(991 x 991)	1.50	(38)
† A424812WFSSLP	42.00 x 48.00 x 12.00	(1067 x 1219 x 305)	A48P42	12	45.00 x 39.00	(1143 x 991)	1.50	(38)
† A426012WFSSALP	42.00 x 60.00 x 12.00	(1067 x 1524 x 305)	A60BFP42	10	56.00 x 38.00	(1422 x 965)	2.00	(51)
†† A484812WFSSLP	48.00 x 48.00 x 12.00	(1219 x 1219 x 305)	A48P48	10	44.00 x 44.00	(1118 x 1118)	2.00	(51)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately.

† Enclosure backs have internal stiffeners.

†† Back is 10 gauge.





# CONCEPT® Stainless Steel Disconnect Wall-Mount Enclosures



Disconnect enclosures are provided with door hardware and accept popular disconnect brands.

## Application

Designed to house the following:

### ◆ Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mounted variable depth operating mechanisms and Bulletin 1494V flange-mounted variable depth operating mechanisms for circuit breakers.
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers.

*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-mounted variable depth operating mechanisms for disconnects and circuit breakers.

### ◆ Cutler-Hammer/Westinghouse

Type C361 flange-mounted variable depth operating mechanisms with disconnect switches and Type C371 flange-mounted variable depth operating mechanisms for circuit breakers. Also Flex Shaft™ handle mechanisms for circuit breakers.

### ◆ General Electric Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra Flex™ cable operators for circuit breakers.

### ◆ Siemens ITE Max-Flex™ flange-mounted variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches.

### ◆ Square D Class 9422 disconnect switches with flange-mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted 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.*

## Construction

- 16 gauge or 14 gauge Type 304 or Type 316 stainless steel
- Seams continuously welded and ground smooth
- Door opening flange trough excludes liquids and contaminants
- Integral body grounding stud
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Panel mounting studs fit optional CONCEPT® panels and other accessories
- Mounting holes in back of body for direct mounting or for optional external mounting brackets
- Hidden hinges for clean aesthetic appearance
- Standard full-access door opening
- Doors are interchangeable and easily removable by pulling captive hinge pins
- Door bar on hinge side for wire management and grounding
- Additional door bar on larger enclosures for extra rigidity
- Provisions on door for optional high-impact thermoplastic data pocket
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Latching system interlocks with the disconnect handle for added safety
- Unique integral door handle with tool-to-open feature and padlocking option installed on door
- Self-grounding latch system with double seal provides maximum protection against leakage

## Furnished with enclosures

1. Cover interlock bracket welded to door
2. Door latching system (2-point or 3-point) installed on door
3. Instructions to locate and install disconnect
4. Hardware kit consisting of padlocking door handle, panel mounting nuts, grounding hardware, and sealing washers for mounting holes

## Note

Consult Space Occupied by Disconnect drawing on the following pages to determine whether the disconnect device you are using will fit the enclosure size you have selected.

## Finish

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional steel panels are white. Handle is zinc die-cast with black textured polyester powder paint.

## Industry Standards

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

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12 and Type 13  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 VDE, IP66  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

*See Chapter 12, General Accessories.*

Blank Adapter Plate  
 Corrosion Inhibitors  
 Electric Heater  
 Fan Cooling Products  
 Lighting Kit  
 Mounting Brackets  
 Panels (see table)  
 Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Ordering a Disconnect?

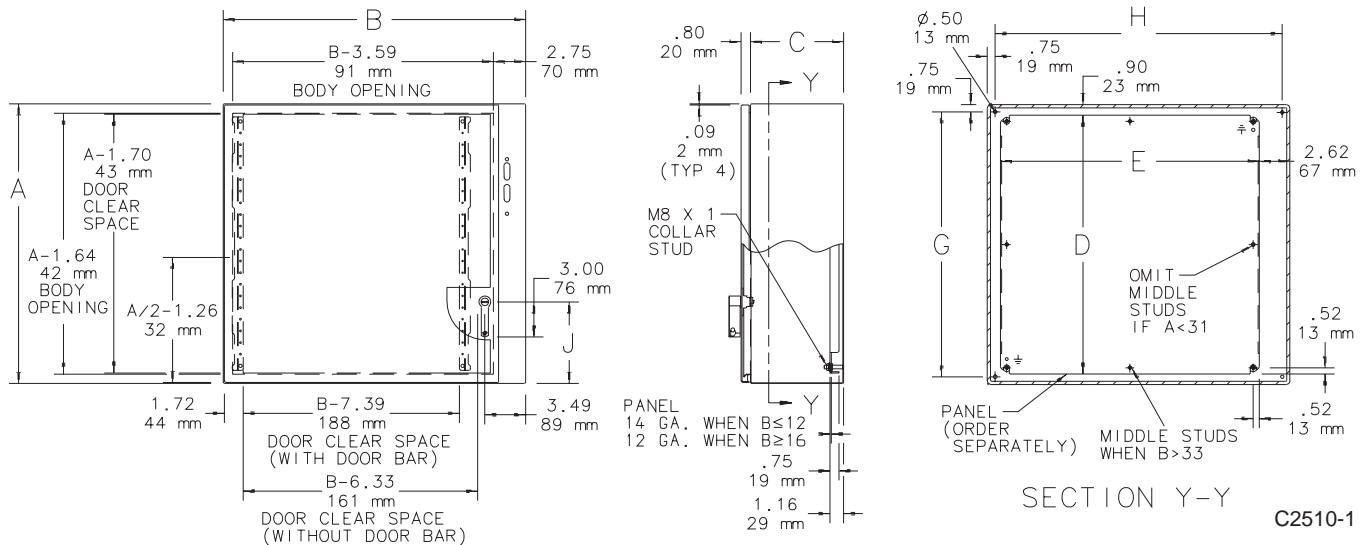
*Consult the Technical Information section of this catalog for wire bend information and [hoffmanonline.com](http://hoffmanonline.com) for disconnect manufacturer information. Disconnect switch (or circuit breakers), operating handle, and operating mechanism are not furnished with the enclosure.*

**Standard Sizes CONCEPT® Stainless Steel Disconnect Wall-Mount Enclosures**

Enclosure Catalog Number Type 304	Enclosure Catalog Number Type 316	Door Ga.	Body Ga.	Enclosure Size A x B x C inch (millimeter)	* CONCEPT®		Mounting G x H inch (mm)	Latches qty style	J inch (mm)
					Panel Catalog Number	Panel Size D x E inch (mm)			
CDSC20228SS	CDSC20228SS6	14	16	20.00 x 22.00 x 8.00 (508 x 559 x 203)	CP2020	18.20 x 18.20 (462 x 462)	18.50 x 20.50 (470 x 521)	1 2-point	5.00 (127)
CDSC24228SS	CDSC24228SS6	14	16	24.00 x 22.00 x 8.00 (610 x 559 x 203)	CP2420	22.20 x 18.20 (564 x 462)	22.50 x 20.50 (572 x 521)	1 2-point	6.00 (152)
CDSC24268SS	CDSC24268SS6	14	16	24.00 x 26.00 x 8.00 (610 x 660 x 203)	CP2424	22.20 x 22.20 (564 x 564)	22.50 x 24.50 (572 x 622)	1 2-point	6.00 (152)
CDSC30268SS	CDSC30268SS6	14	16	30.00 x 26.00 x 8.00 (762 x 660 x 203)	CP3024	28.20 x 22.20 (716 x 564)	28.50 x 24.50 (724 x 622)	1 2-point	6.00 (152)
CDSC36268SS	CDSC36268SS6	14	14	36.00 x 26.00 x 8.00 (914 x 660 x 203)	CP3624	34.20 x 22.20 (869 x 564)	34.50 x 24.50 (876 x 622)	1 2-point	6.00 (152)
CDSC36328SS	CDSC36328SS6	14	14	36.00 x 32.00 x 8.00 (914 x 813 x 203)	CP3630	34.20 x 28.20 (869 x 716)	34.50 x 30.50 (869 x 775)	1 2-point	6.00 (152)
CDSC423212SS	CDSC423212SS6	14	14	42.00 x 32.00 x 12.00 (1067 x 813 x 305)	CP4230	40.20 x 28.20 (1021 x 716)	40.50 x 30.50 (1029 x 775)	1 3-point	21.00 (533)
CDSC423812SS	CDSC423812SS6	14	14	42.00 x 38.00 x 12.00 (1067 x 965 x 305)	CP4236	40.20 x 34.20 (1021 x 869)	40.50 x 36.50 (1029 x 927)	1 3-point	21.00 (533)
CDSC483812SS	CDSC483812SS6	14	14	48.00 x 38.00 x 12.00 (1219 x 965 x 305)	CP4836	46.20 x 34.20 (1173 x 869)	46.50 x 36.50 (1181 x 927)	1 3-point	24.00 (610)
CDSC603812SS	CDSC603812SS6	14	14	60.00 x 38.00 x 12.00 (1524 x 965 x 305)	CP6036	58.20 x 34.20 (1478 x 869)	58.50 x 36.50 (1486 x 927)	1 3-point	30.00 (762)

Millimeter dimensions ( ) are for reference only; do not convert metric to inch.

\* Panels must be ordered separately.



NOTE: Door has provision for data pocket. Use large data pocket when A=30.00 in. (762mm) or more and B=22.00 in. (559mm) or more.

# CONCEPT<sup>®</sup> Stainless Steel Disconnect Wall-Mount Enclosures

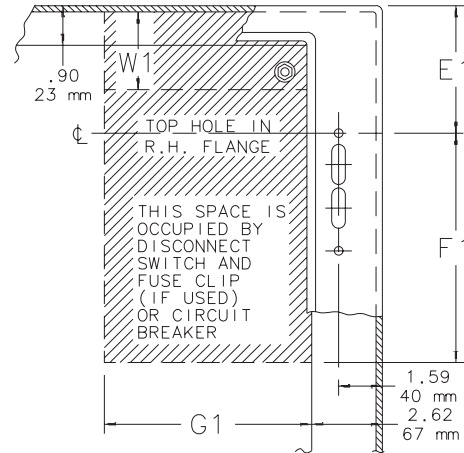
## Space Occupied by Disconnect

NOTE: EI = 4.75 (121) when C = 8.00 (203)  
EI = 11.62 (294) when C = 12.00 (305)  
WI = Wiring Space

Disconnects will occupy space on panel shown by dimensions EI, FI, and GI. Wiring space WI is available when disconnect is installed in the enclosure.

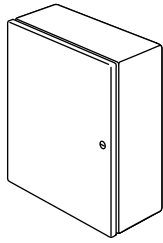
Refer to **National Electrical Code<sup>®</sup> 2002** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for FI, GI, and WI dimensions of various brands of disconnects.

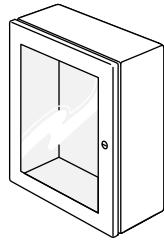


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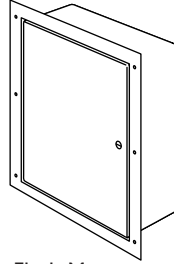
The **CONCEPT®** Enclosure Group **Accessory Selection Guide**



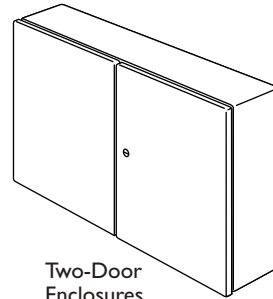
Steel or  
Stainless Steel  
Enclosures



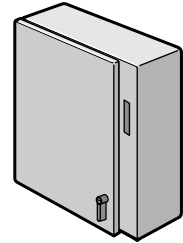
Steel or  
Stainless Steel  
Window-Door  
Enclosures



Flush-Mount  
Enclosures

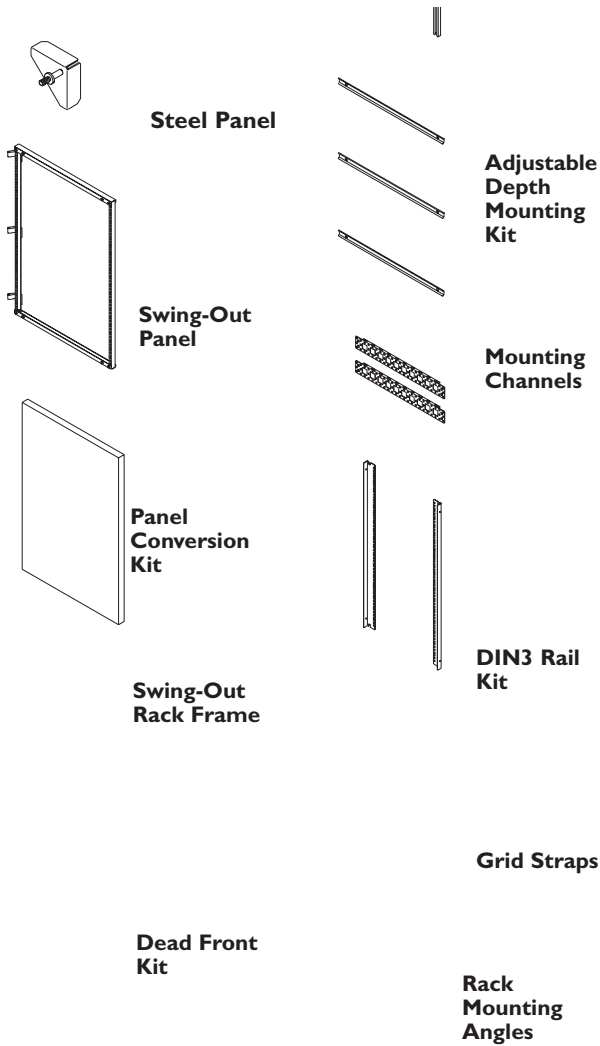


Two-Door  
Enclosures

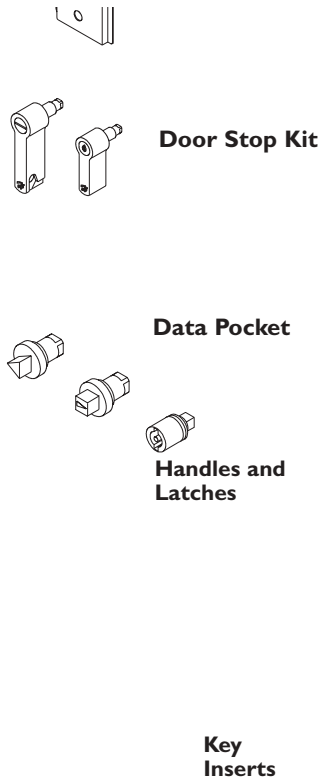


Steel or **Stainless  
Steel Disconnect  
Enclosures**

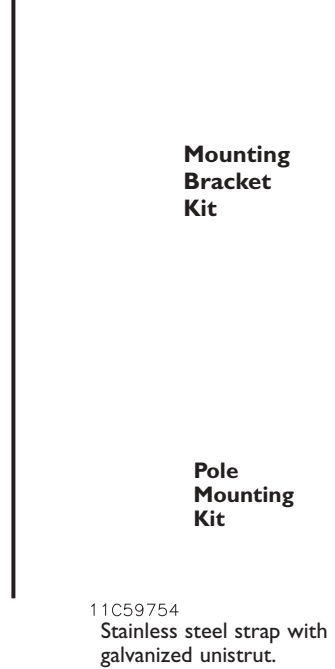
**Internal Accessories**



**Door Accessories**



**External Accessories**



# Stainless Steel Type 4X Enclosures for Flange-Mounted Disconnects



## Application

Designed to house the following:

### ◆ Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mounted variable depth operating mechanisms and Bulletin 1494V flange-mounted variable depth operating mechanisms for circuit breakers.
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers.

*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-mounted variable depth operating mechanisms for disconnect switches and circuit breakers.

### ◆ Cutler-Hammer/Westinghouse

Type C361 flange-mounted variable depth operating mechanisms with disconnect switches and Type C371 flange-mounted variable depth operating mechanisms for circuit breakers. Flex Shaft™ handle operators for circuit breakers.

### ◆ General Electric Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra Flex™ cable operators for circuit breakers.

### ◆ Siemens ITE Max-Flex™ flange-mounted variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches.

### ◆ Square D Class 9422 disconnect switches with flange-mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted variable depth operating mechanisms or cable mechanisms for circuit breakers.

*Bulletin A19 enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.*

## Construction

- 14 gauge Type 304 or Type 316L stainless steel.
- Seams continuously welded and ground smooth
- External mounting brackets
- Rolled lip around all sides of enclosure opening excludes liquids and contaminants
- All exterior hardware is stainless steel
- Stainless steel door clamps on three sides of door for watertight seal; additional door hardware not required
- Door removed by pulling stainless steel continuous hinge pin
- Data pocket is high impact thermoplastic
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Collar studs provided for mounting optional panels
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Bonding provision on door
- All exterior hardware on Type 316L enclosures matches the enclosure material

## Finish

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional steel panels are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 JIC standard EGP-1-1967  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Blank Adapter Plate
- Corrosion Inhibitors
- Electric Heater
- Electrical Interlocks
- Floor Stand Kit
- Lighting Kit
- Mounting Brackets
- Panels (see table)
- Terminal Block Kit Assembly
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Ordering a Disconnect?

*Consult the Technical Information section of this catalog for wire bend information and [hoffmanonline.com](http://hoffmanonline.com) for disconnect manufacturer information. Disconnect switch (or circuit breakers), operating handle, and operating mechanism are not furnished with enclosure.*

## Note

Consult Space Occupied by Disconnect drawing on the following pages to determine whether the disconnect device you are using will fit the enclosure size you have selected.

## Furnished with enclosures

1. Bracket welded to door for attaching disconnect door catch (interlock)
2. Instructions to locate and install disconnect switches, circuit breakers, and operating mechanisms



**Standard Sizes Stainless Steel Type 4X Enclosures (Type 304 Stainless Steel)**

Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E	Data Pocket	Number of Clamps
A24HS2108SSLP	24.00 x 21.38 x 8.00 (610 x 543 x 203)	A24P20	21.00 x 17.00 (533 x 432)	Small	5
A24HS2508SSLP	24.00 x 25.38 x 8.00 (610 x 645 x 203)	A24P24	21.00 x 21.00 (533 x 533)	Small	5
A30HS2508SSLP	30.00 x 25.38 x 8.00 (762 x 645 x 203)	A30P24	27.00 x 21.00 (686 x 533)	Large	5
A36HS2508SSLP	36.00 x 25.38 x 8.00 (914 x 645 x 203)	A36P24	33.00 x 21.00 (838 x 533)	Large	5
A36HS3108SSLP	36.00 x 31.38 x 8.00 (914 x 797 x 203)	A36P30	33.00 x 27.00 (838 x 686)	Large	7
A42HS3112SSLP	42.00 x 31.38 x 12.00 (1067 x 797 x 305)	A42P30	39.00 x 27.00 (991 x 686)	Large	10
A42HS3712SSLP	42.00 x 37.38 x 12.00 (1067 x 949 x 305)	A42P36	39.00 x 33.00 (991 x 838)	Large	10
A48HS3712SSLP	48.00 x 37.38 x 12.00 (1219 x 949 x 305)	A48P36	45.00 x 33.00 (1143 x 838)	Large	10
A60HS3712SSLP	60.00 x 37.38 x 12.00 (1524 x 949 x 305)	A60P36	57.00 x 33.00 (1448 x 838)	Large	11

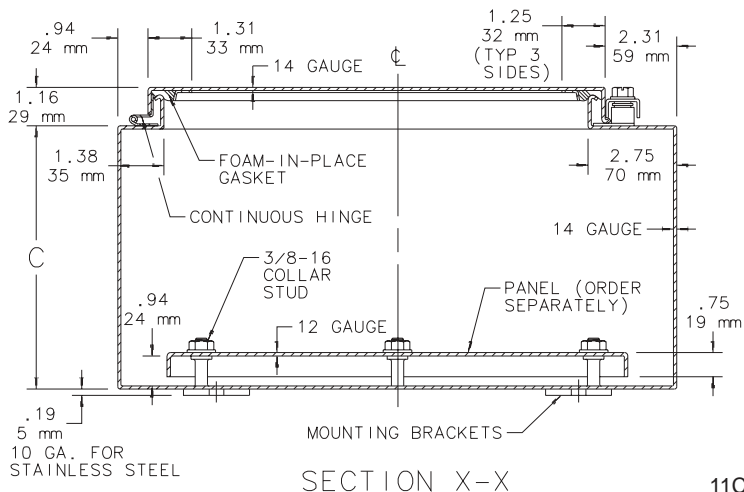
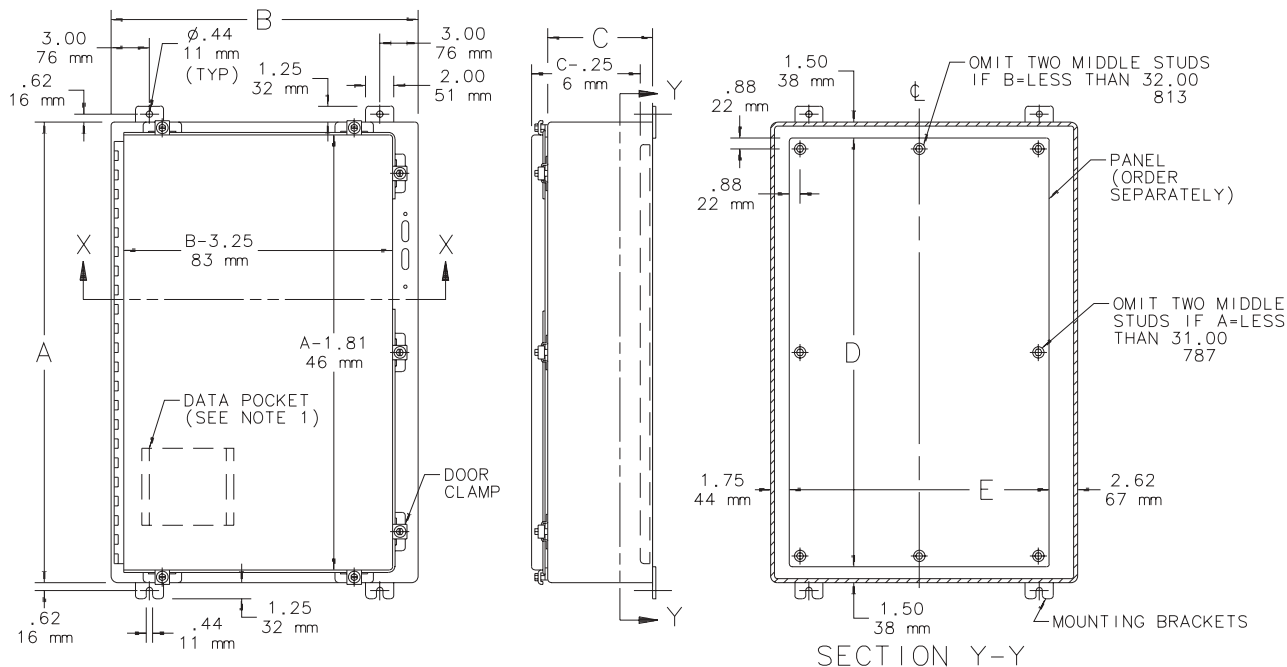
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.  
 \* Panels must be ordered separately. Optional stainless steel or aluminum panels are available. See General Accessories.  
 NOTE: Panels have a formed flange along any side that is longer than 21.00 in. (564mm). Panels A24P20 and A24P24 have a flange on all four sides.

**Standard Sizes Stainless Steel Type 4X Enclosures (Type 316L Stainless Steel)**

Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E	Data Pocket	Number of Clamps
A24HS2108SS6LP	24.00 x 21.38 x 8.00 (610 x 543 x 203)	A24P20	21.00 x 17.00 (533 x 432)	Small	5
A24HS2508SS6LP	24.00 x 25.38 x 8.00 (610 x 645 x 203)	A24P24	21.00 x 21.00 (533 x 533)	Small	5
A30HS2508SS6LP	30.00 x 25.38 x 8.00 (762 x 645 x 203)	A30P24	27.00 x 21.00 (686 x 533)	Large	5
A36HS2508SS6LP	36.00 x 25.38 x 8.00 (914 x 645 x 203)	A36P24	33.00 x 21.00 (838 x 533)	Large	5
A36HS3108SS6LP	36.00 x 31.38 x 8.00 (914 x 797 x 203)	A36P30	33.00 x 27.00 (838 x 686)	Large	7
A42HS3112SS6LP	42.00 x 31.38 x 12.00 (1067 x 797 x 305)	A42P30	39.00 x 27.00 (991 x 686)	Large	10
A42HS3712SS6LP	42.00 x 37.38 x 12.00 (1067 x 949 x 305)	A42P36	39.00 x 33.00 (991 x 838)	Large	10
A48HS3712SS6LP	48.00 x 37.38 x 12.00 (1219 x 949 x 305)	A48P36	45.00 x 33.00 (1143 x 838)	Large	10
A60HS3712SS6LP	60.00 x 37.38 x 12.00 (1524 x 949 x 305)	A60P36	57.00 x 33.00 (1448 x 838)	Large	11

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.  
 \* Panels must be ordered separately. Optional stainless steel or aluminum panels are available. See General Accessories.  
 NOTE: Panels have a formed flange along any side that is longer than 21.00 in. (564mm). Panels A24P20 and A24P24 have a flange on all four sides.

# Stainless Steel Type 4X Enclosures for Flange-Mounted Disconnects



- NOTES:
1. Removable data pocket included. See table for size. Large data pocket is 12.00 x 12.00 (305 x 305); small data pocket is 6.00 x 6.00 (152 x 152).
  2. The number of door clamps is dependent on size of enclosure. Clamps are furnished along three sides of door.
  3. Panels are 12 gauge steel.

11C59189-1

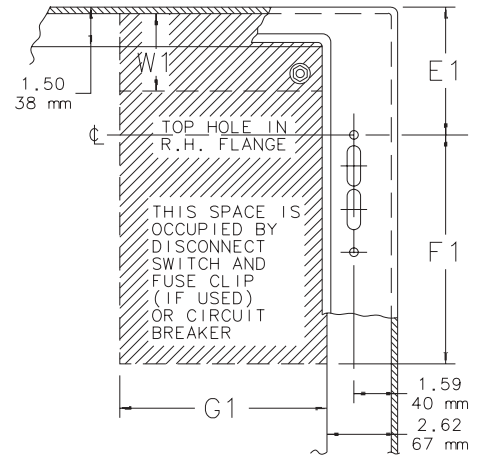
**Space Occupied by Disconnect**

NOTE: EI = 8.62 (219) when C = 8.00 (203)  
 EI = 11.62 (295) when C = 12.00 (305)  
 WI = Wiring Space

Disconnects will occupy space on panel shown by dimensions EI, FI, and GI. Wiring space WI is available when disconnect is installed in the enclosure.

Refer to **National Electrical Code® 2002** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for FI, GI, and WI dimensions of various brands of disconnects.



11C59189-2





## Application

The Hoffman Watershed™ stainless steel enclosure, with its unique design and Type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in a variety of indoor and outdoor settings. Its unique features are specifically designed for use in sanitary washdown production environments like food, beverage, or pharmaceutical processing. However, these same features also are useful in petrochemical plants, pulp and paper facilities, and water treatment plants.

## Construction

- Manufactured from 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 cover edges
- Hinged side of cover has provisions to allow direct flushing of hinge area
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits the placement of objects on the top of the enclosure
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom edges to facilitate runoff
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Stainless steel quarter-turn latches furnished with flush slotted insert
- Seamless foam-in-place one-piece gasket provides oil-tight and dust-tight seal against contaminants
- Self-grounding latch system with double seal provides maximum protection against leakage
- Bonding provision on door and ground stud on body
- Panel studs fit optional NEMA size panels
- Mounting holes in back of body for direct mounting or for optional stand-off kit
- Furnished hardware kit consists of panel mounting nuts, grounding hardware, and sealing washers for wall-mounting holes

## Finish

Stainless steel enclosures are unpainted. External surfaces have a #4 brushed finish.

## Industry Standards

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

NSF Criteria C-2  
UL 508A, 508, File Number E61997:Type 4, Type 4X, Type 12  
cUL C22.2 No. 26, File Number E61997:Type 4, Type 4X, Type 12  
NEMA/EEMAC Type 4, Type 4X, Type 12  
IEC 60529, IP66

## Accessories

*See Chapter 12, General Accessories.*

Mounting Bracket Kit  
Panels  
Stand-off Kit

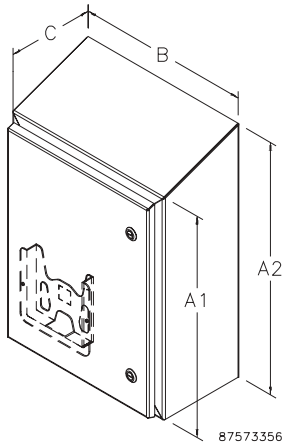
*Patent pending.*

**Standard Sizes Watershed™ Wall-Mount Enclosures**

Catalog Number	Nominal Dimensions		A1=Front		A2=Back		B=Width		C=Depth		* Panel Catalog Number
	A x B x C in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
WS161208SS	16 x 12 x 8	406 x 305 x 203	16.20	411	19.10	485	12	305	8	203	A16P12
WS161608SS	16 x 16 x 8	406 x 406 x 203	16.30	414	19.20	488	16	406	8	305	A16P16
WS201612SS	20 x 16 x 12	508 x 406 x 305	20.30	516	24.66	626	16	406	12	305	A20P16
WS201608SS	20 x 16 x 8	508 x 406 x 203	20.30	516	23.20	589	16	406	8	203	A20P16
WS202012SS	20 x 20 x 12	508 x 508 x 305	20.40	518	24.76	629	20	508	12	305	A20P20
WS202008SS	20 x 20 x 8	508 x 508 x 203	20.40	518	23.31	592	20	508	8	203	A20P20
WS242412SS	24 x 24 x 12	610 x 610 x 305	24.51	623	28.87	733	24	610	12	305	A24P24
WS242408SS	24 x 24 x 8	610 x 610 x 203	24.51	623	27.41	696	24	610	8	203	A24P24
WS242008SS	24 x 20 x 8	610 x 508 x 203	24.40	620	27.31	694	20	508	8	203	A24P20
WS302408SS	30 x 24 x 8	762 x 610 x 203	30.51	785	33.41	849	24	610	8	203	A30P24
WS302412SS	30 x 24 x 12	762 x 610 x 305	30.51	775	34.87	886	24	610	12	305	A30P24
WS303008SS	30 x 30 x 8	762 x 762 x 203	30.67	779	33.57	853	30	762	8	203	A30P30
WS363012SS	36 x 30 x 12	914 x 762 x 305	36.67	931	41.03	1042	30	762	12	305	A36P30
WS363008SS	36 x 30 x 8	914 x 752 x 203	36.67	931	39.57	1005	30	762	8	203	A36P30
WS363612SS	36 x 36 x 12	914 x 914 x 305	36.82	935	41.18	1046	36	914	12	305	A36P36
WS363016SS	36 x 30 x 16	914 x 752 x 406	36.82	935	42.64	1083	30	762	16	406	A36P30
WS483616SS	48 x 36 x 16	1219 x 914 x 406	48.82	1240	54.64	1388	36	914	16	406	A48P36
† WS603616SS	60 x 36 x 16	1524 x 914 x 406	60.82	1545	66.64	1693	36	914	16	406	A60P36

\* Panels must be ordered separately. Optional stainless steel or aluminum panels are available. See General Accessories.

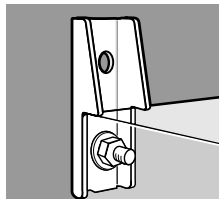
† 10 gauge back.



87573356

**Optional Components**  
**Mounting Bracket Kit**

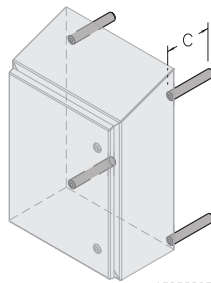
Brackets are field installable. Stainless steel brackets are rated to Type 4X. All hardware is included. Four brackets per kit.



Catalog Number	Description
CMFKSS	Stainless steel (Type 304) mounting bracket kit

**Stand-off Kit**

Stand-offs provide space between wall-mount enclosure and wall for better washdown accessibility. Stainless steel standoffs are rated to Type 4X. All hardware is included. Four standoffs per kit.



87573357

Catalog Number	C in.	mm
WSSOK1SS	1	25
WSSOK2SS	2	51
WSSOK4SS	4	102
WSSOK6SS	6	152



A Pentair Company

Rev. A June 2003

# Stainless Steel Two-Door Floor-Mount Type 4X Enclosures



## Application

This two-door enclosure provides industry-leading protection for systems incorporating large components or complex mounting configurations in highly corrosive environments. It is typically used in food processing plants, pharmaceutical manufacturing facilities, petrochemical plants, pulp and paper processing, and water treatment facilities.

## Construction

- 12 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- "X-form" body stiffeners for added strength
- Removable centerpost for easy panel installation
- Panel supports
- Heavy duty lifting eyes are Type 316 stainless steel
- Stainless steel screws and clamps on three sides of each door assure watertight seal
- Rolled lip around three sides of door and along top of enclosure opening excludes liquids and contaminants
- Heavy gauge stainless steel continuous hinge
- Data pocket is high impact thermoplastic
- 12-inch (305-millimeter) floor stands are welded to enclosure
- Hasp and staple for padlocking
- Oil-resistant gasket attached with oil-resistant adhesive and held in place with stainless steel retaining strips
- Collar studs provided for mounting optional panels
- External hardware manufactured of Type 316 stainless steel
- Ground studs in body of enclosure
- Bonding provision on doors

## Finish

Enclosures are unpainted. Front, sides, top, and back have smooth #4 brushed finish. Optional steel panels are white. Unpainted stainless steel panels available by contacting Hoffman.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
NEMA Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
JIC standard EGP-I-1967  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Electric Heater
- Electrical Interlocks
- Lighting Kit
- Panel Support Kit
- Panels (see table)
- Toggle Latch
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

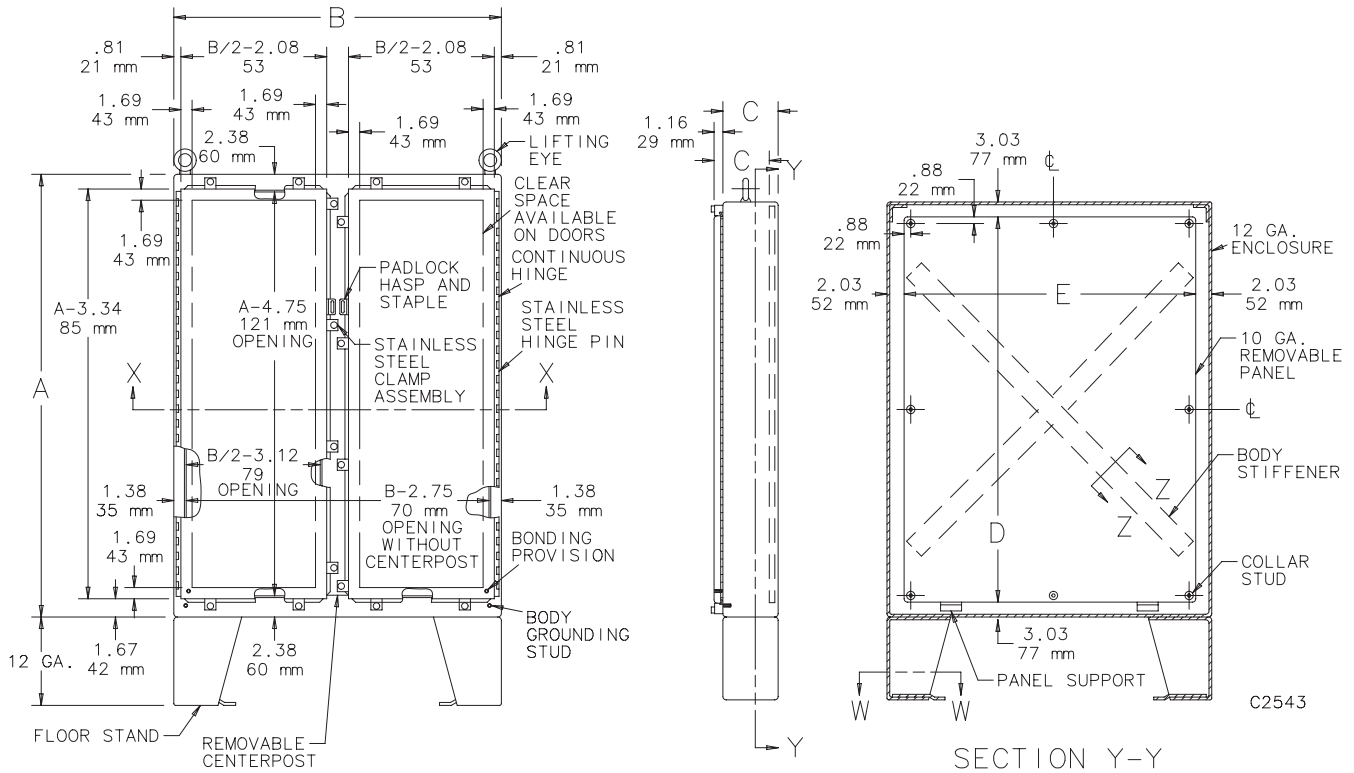
## Standard Sizes Stainless Steel Two-Door Floor-Mount Type 4X Enclosures

Type 304 Catalog Number	Type 316L Catalog Number	Enclosure Size A x B x C		* Panel Catalog Number	Panel Size D x E		Number of Clamps
		inch	(millimeter)		inch	(mm)	
A62H4812SSLP	A62H4812SS6LP	62.06 x 48.06 x 12.06	(1576 x 1221 x 306)	A60P48	56.00 x 44.00	(1422 x 1118)	16
A62H6012SSLP	A62H6012SS6LP	62.06 x 60.06 x 12.06	(1576 x 1526 x 306)	A60P60	56.00 x 56.00	(1422 x 1422)	16
A74H6012SSLP	A74H6012SS6LP	74.06 x 60.06 x 12.06	(1881 x 1526 x 306)	A72P60	68.00 x 56.00	(1727 x 1422)	18
†A74H7212SSLP	† A74H7212SS6LP	74.06 x 72.06 x 12.06	(1881 x 1830 x 306)	A72P72	68.00 x 68.00	(1727 x 1727)	18
†A74H7224SSLP	† A74H7224SS6LP	74.06 x 72.06 x 24.06	(1881 x 1830 x 611)	A72P72	68.00 x 68.00	(1727 x 1727)	18

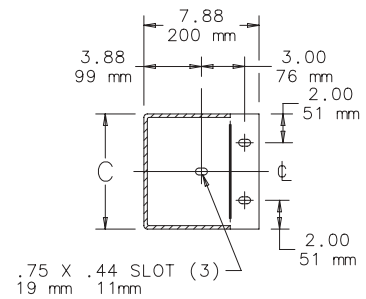
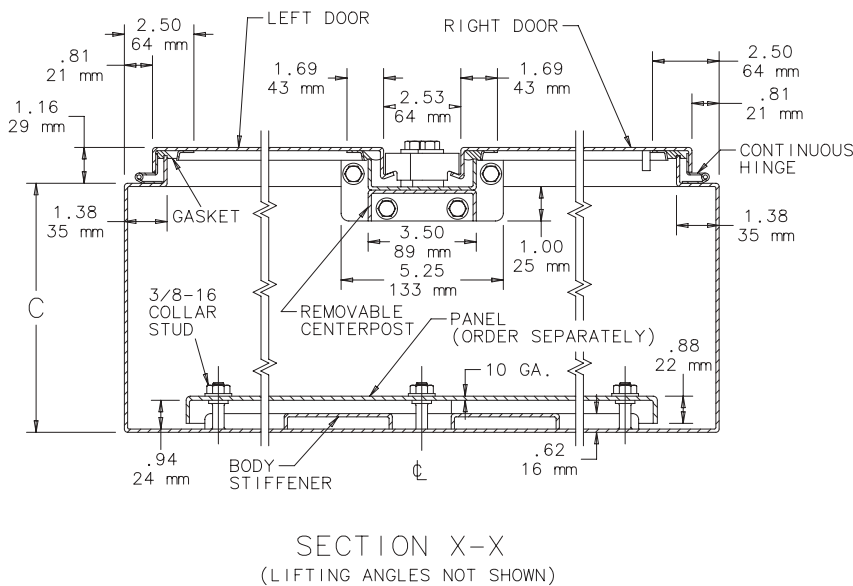
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately.

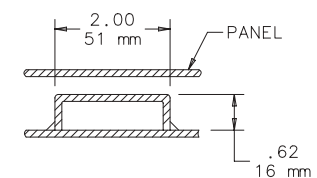
† 10 gauge back.



NOTE: Right door has removable 12.00 x 12.00 in. (305 x 305mm) data pocket.



SECTION W-W



SECTION Z-Z



A Pentair Company

Rev. A June 2003

# Stainless Steel Two-Door Floor-Mount Type 12 Enclosures



- Strong, rigid construction with body stiffeners
- Gasketed overlapping doors eliminate need for center post
- Plated steel 3-point latching mechanism and key-locking handle
- Latch rods have rollers for easier door-closing
- Heavy gauge continuous hinges support each door
- Data pocket, provided on door with 3-point latches, is high-impact thermoplastic
- 12-inch (305-millimeter) floor stands are welded to enclosure
- Heavy duty lifting eyes are Type 316 stainless steel
- Panel supports
- Oil-resistant gasket attached with oil-resistant adhesive and held in place with steel retaining clips
- Collar studs for mounting optional panel
- Ground studs in body of enclosure
- Bonding provision on doors

## Finish

Enclosures are unpainted. Front, sides, top, and back have smooth #4 brushed finished. Steel panels are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 12  
NEMA/EEMAC Type 12  
JIC standard EGP-I-1967  
CSA File No. LR42186: Type 12  
IEC 60529, IP55

## Accessories

See Chapter 12, General Accessories.

- Door Stop Kit
- Drip Shield Kit
- Electrical Interlocks
- Enclosure Stabilizers
- Folding Shelf
- Lighting Kit
- Panel Support Kit
- Panels (see table)
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

## Application

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil, and water.

## Construction

- 12 or 14 gauge Type 304 stainless steel
- 12 gauge enclosures have 10 gauge backs
- Seams continuously welded and ground smooth, no holes or knockouts

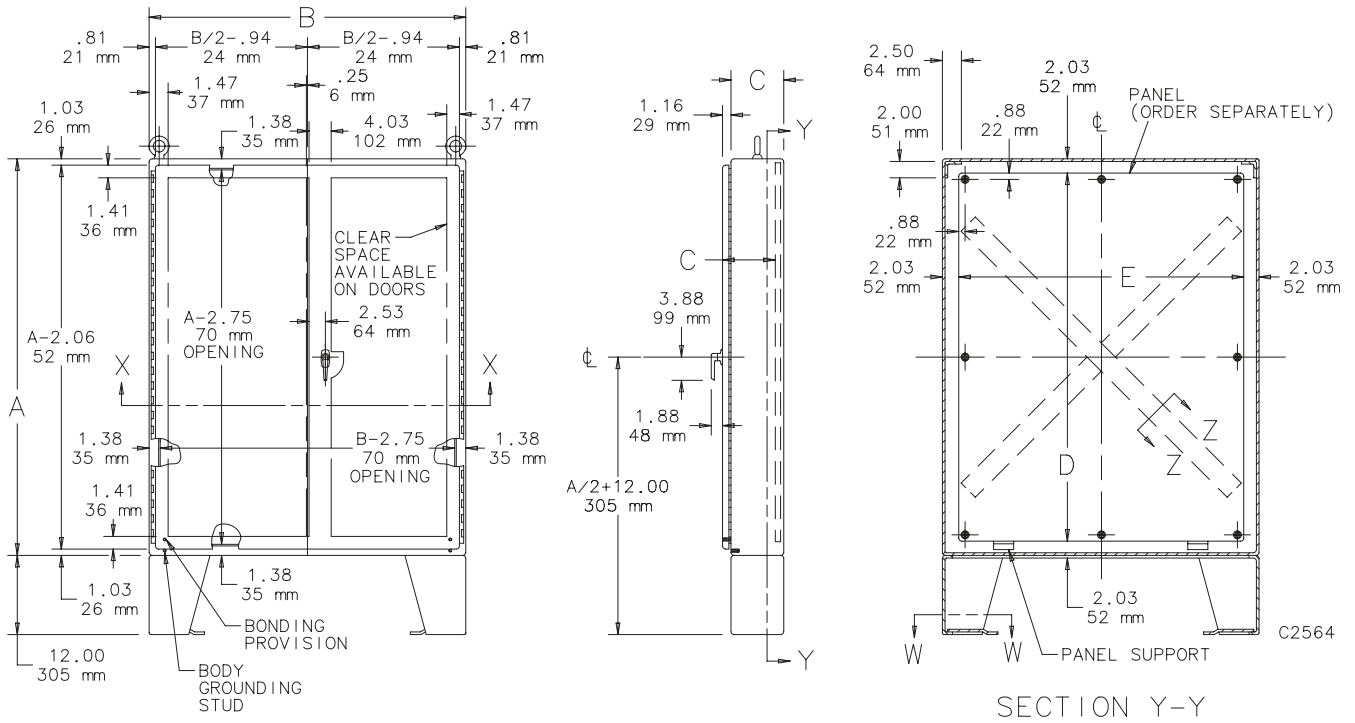
## Standard Sizes Stainless Steel Two Door Floor-Mount Type 12 Enclosures

Enclosure Catalog Number	Gauge	Enclosure Size A x B x C		* Panel Catalog Number	Panel Gauge	Panel Size D x E		Stiffener Door / Body	
		inch	(millimeter)			inch	(mm)		
† A544208SSLP	14	54.00 x 42.00 x 8.00	(1372 x 1067 x 203)	A54P42	12	50.00 x 38.00	(1270 x 965)	0	3
A604808SSLP	12	60.06 x 48.06 x 8.06	(1526 x 1221 x 205)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A604810SSLP	12	60.06 x 48.06 x 10.06	(1526 x 1221 x 256)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A606010SSLP	12	60.06 x 60.06 x 10.06	(1526 x 1526 x 256)	A60P60	10	56.00 x 56.00	(1422 x 1422)	0	1 (X-form)
A726010USSLP	12	72.06 x 60.06 x 10.06	(1830 x 1526 x 256)	A72P60	10	68.00 x 56.00	(1727 x 1422)	0	1 (X-form)
A727210USSLP	12	72.06 x 72.06 x 10.06	(1830 x 1830 x 256)	A72P72	10	68.00 x 68.00	(1727 x 1727)	0	1 (X-form)
A604812SSLP	12	60.06 x 48.06 x 12.06	(1526 x 1221 x 306)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A606012SSLP	12	60.06 x 60.06 x 12.06	(1526 x 1526 x 306)	A60P60	10	56.00 x 56.00	(1422 x 1422)	0	1 (X-form)
A726012USSLP	12	72.06 x 60.06 x 12.06	(1830 x 1526 x 306)	A72P60	10	68.00 x 56.00	(1727 x 1422)	0	1 (X-form)
A727212USSLP	12	72.06 x 72.06 x 12.06	(1830 x 1830 x 306)	A72P72	10	68.00 x 68.00	(1727 x 1727)	0	1 (X-form)
A604816SSLP	12	60.06 x 48.06 x 16.06	(1526 x 1221 x 408)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A606016SSLP	12	60.06 x 60.06 x 16.06	(1526 x 1526 x 408)	A60P60	10	56.00 x 56.00	(1422 x 1422)	0	1 (X-form)
A726016USSLP	12	72.06 x 60.06 x 16.06	(1830 x 1526 x 408)	A72P60	10	68.00 x 56.00	(1727 x 1422)	0	1 (X-form)
A727216USSLP	12	72.06 x 72.06 x 16.06	(1830 x 1830 x 408)	A72P72	10	68.00 x 68.00	(1727 x 1727)	0	1 (X-form)
A604820SSLP	12	60.06 x 48.06 x 20.06	(1526 x 1221 x 510)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A726020USSLP	12	72.06 x 60.06 x 20.06	(1830 x 1526 x 510)	A72P60	10	68.00 x 56.00	(1727 x 1422)	0	1 (X-form)
A727220USSLP	12	72.06 x 72.06 x 20.06	(1830 x 1830 x 510)	A72P72	10	68.00 x 68.00	(1727 x 1727)	0	1 (X-form)
A604824SSLP	12	60.06 x 48.06 x 24.06	(1526 x 1221 x 611)	A60P48	10	56.00 x 44.00	(1422 x 1118)	0	1 (X-form)
A606024SSLP	12	60.06 x 60.06 x 24.06	(1526 x 1526 x 611)	A60P60	10	56.00 x 56.00	(1422 x 1422)	0	1 (X-form)
A726024USSLP	12	72.06 x 60.06 x 24.06	(1830 x 1526 x 611)	A72P60	10	68.00 x 56.00	(1727 x 1422)	0	1 (X-form)
A727224USSLP	12	72.06 x 72.06 x 24.06	(1830 x 1830 x 611)	A72P72	10	68.00 x 68.00	(1727 x 1727)	0	1 (X-form)

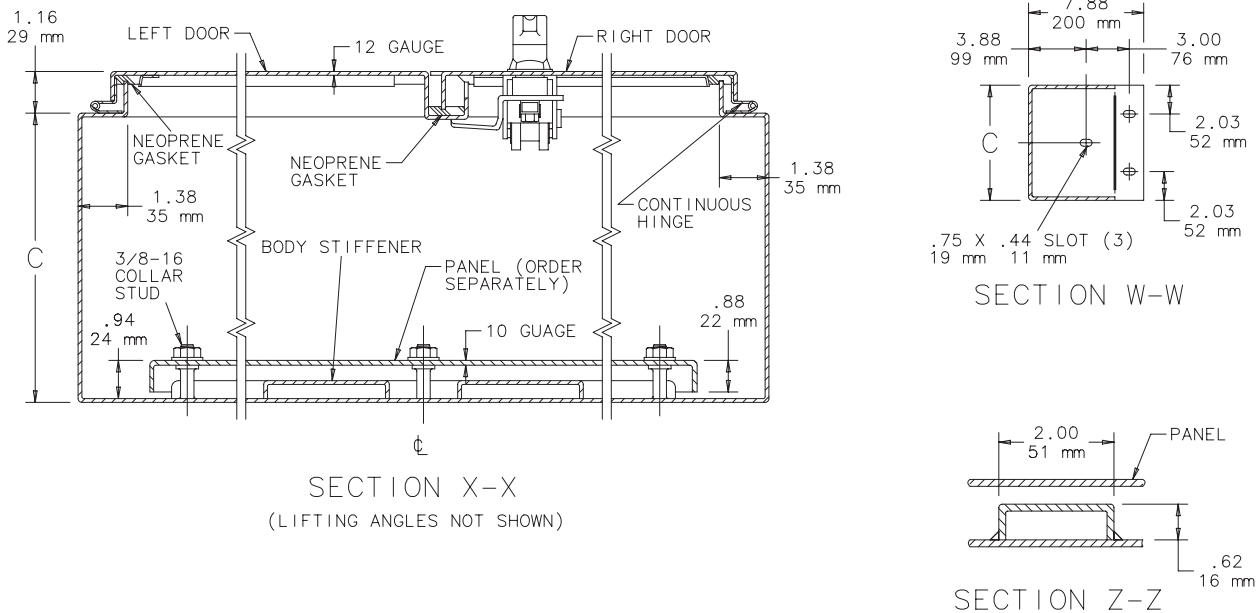
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

† Rolled lip around door opening. 14 gauge back.

\* Panels must be ordered separately.



NOTE: Right door has removable 12.00 x 12.00 in. (305 x 305mm) data pocket.



# Watershed™ Free-Standing Enclosures



## Application

The Hoffman Watershed™ stainless steel free-standing enclosure, with its unique design and Type 4X rating, is a perfect fit for mounting electrical or high-tech electronic equipment in a variety of indoor and outdoor settings. Its unique features are specifically designed for use in sanitary washdown production environments like food, beverage, or pharmaceutical processing. However, these same features also are useful in petrochemical plants, pulp and paper facilities, and wastewater treatment plants.

## Construction

- Manufactured from 12 gauge Type 304 stainless steel with 10 gauge Type 304 stainless steel back
- Seams continuously welded and ground smooth
- Smooth Type 304 stainless steel lift-off bullet-style hinges
- Hinges are shielded by cover edges
- Hinged side of cover has provisions to allow direct flushing of hinge area
- 20-degree sloped top facilitates runoff of water and cleaning solutions and prohibits the placement of objects on the top of the enclosure
- 170-degree door opening
- Door edges are sloped 20 degrees at top and bottom edges to facilitate runoff
- Slanted flange trough collar prohibits pooling of fluids along the top edge of the enclosure opening
- Three-point latching operated by Type 316 padlocking stainless steel handles; disconnect handles include integral defeater insert
- Seamless foam-in-place one-piece gasket provides oil-tight and dust-tight seal against contaminants
- Bonding provision on door and ground stud on body
- Panel studs fit optional NEMA size panels
- Mounting holes in bottom of enclosure for direct mounting or for optional sanitary legs and stainless steel floor stands
- Furnished hardware kit consists of panel mounting nuts, grounding hardware, and hole seals for mounting holes

## Finish

Stainless steel enclosures are unpainted. External surfaces have a #4 brushed finish.

## Industry Standards

NSF Criteria C-2  
 UL 508A, 508, File Number E61997: Type 4, Type 4X, Type 12  
 cUL C22.2 No. 26, File Number E61997: Type 4, Type 4X, Type 12  
 NEMA/EEMAC Type 4, Type 4X, Type 12  
 IEC 60529, IP66

## Accessories

See Chapter 12, General Accessories.

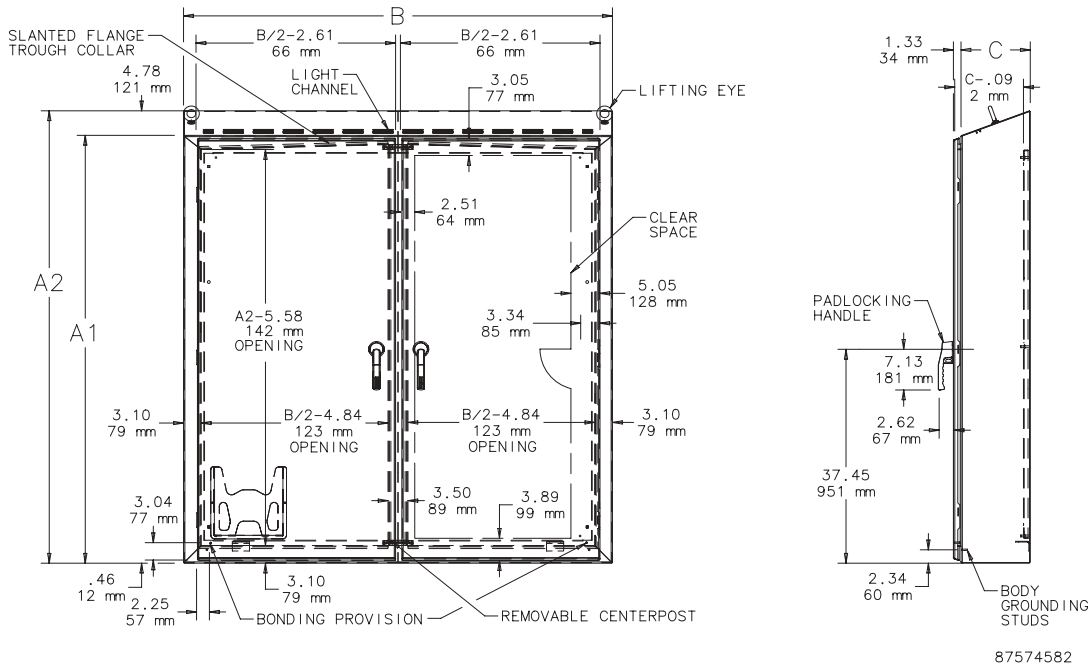
- Floor-Stand Kit
- Panels
- Sanitary Leg Kit

Patent pending.

## Standard Sizes Watershed™ Free-Standing Enclosures

Catalog Number	Includes Disconnect Cutout	Nominal Dimensions A x B x C		A1=Front		A2=Back		B=Width		C=Depth	* Panel Catalog Number	
		in.	mm	in.	mm	in.	mm	in.	mm	mm		
WS625112SS	No	62 x 51 x 12	1575 x 1295 x 305	62.81	1595	67.20	1707	51.09	1298	12.12	308	A60P48
WS625118SS	No	62 x 51 x 18	1575 x 1295 x 457	62.81	1595	67.20	1707	51.09	1298	18.12	460	A60P48
WS626312SS	No	62 x 63 x 12	1575 x 1600 x 305	62.81	1595	67.20	1707	63.09	1707	12.12	308	A60P60
WS626318SS	No	62 x 63 x 18	1575 x 1600 x 457	62.81	1595	67.20	1707	63.09	1602	18.12	460	A60P60
WS746312SS	No	74 x 63 x 12	1880 x 1600 x 305	74.81	1900	79.20	2012	63.09	1602	12.12	308	A72P60
WS746318SS	No	74 x 63 x 18	1880 x 1600 x 457	74.81	1900	81.38	2067	63.09	1602	18.12	460	A72P60
WS747512SS	No	74 x 75 x 12	1880 x 1905 x 305	74.81	1900	79.20	2012	75.09	1907	12.12	308	A72P72
WS747518SS	No	74 x 75 x 18	1880 x 1905 x 457	74.81	1900	81.38	2067	75.09	1907	18.12	460	A72P72
WS747524SS	No	74 x 75 x 24	1880 x 1905 x 610	74.81	1900	83.57	2123	75.09	1907	24.12	613	A72P72

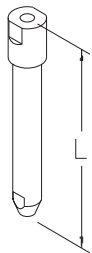
\* Panels must be ordered separately. See General Accessories.



**Accessories**

**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 UL/cUL Type 4X rating when properly installed on a Hoffman Type 4X enclosure.

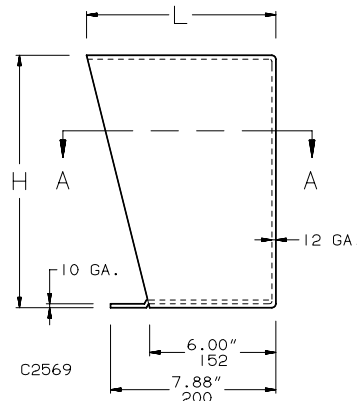
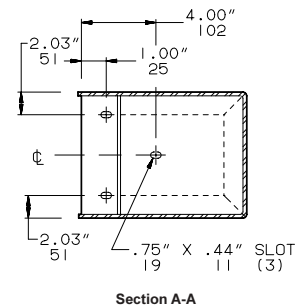
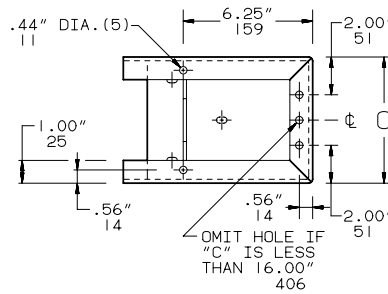


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Catalog Number	Description	Size in.	mm
WSASKSS	Adj. Sanitary Leg Kit	11.50-12.50	292-318
WSFSLKSS	Fixed Sanitary Leg Kit	12.00	305

**Floor-Stand Kit**

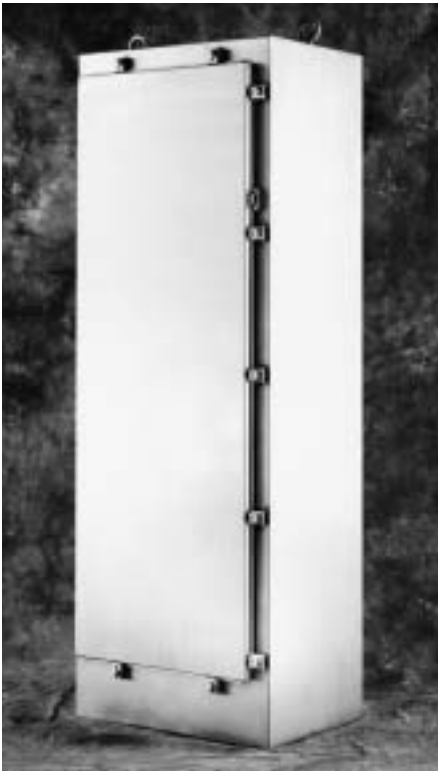
Use to raise free-standing enclosure. To install, drill holes in the bottom of the enclosure and bolt the floor stands to the enclosure. Each kit includes two stands. Type 304 stainless steel. Maintains UL/cUL Type 4X rating when properly installed on a Hoffman Type 4X enclosure.



Catalog Number	H in.	H mm	C in.	C mm	L in.	L mm
AFK1218SS	12.00	305	18.06	459	9.09	231
AFK1224SS	12.00	305	24.06	611	9.09	231



# Stainless Steel Free-Standing Type 4X Enclosures



## Application

This single-door enclosure provides industry-leading protection for systems incorporating large components or complex mounting configurations in highly corrosive environments. The addition of 19-inch rack mounting accessories makes these enclosures ideal for providing rugged protection for sensitive rack mounted components in harsh industrial environments. The enclosure is typically used in food processing plants, pharmaceutical manufacturing facilities, petrochemical plants, and waste-water treatment facilities.

## Construction

- 12 gauge Type 304 or Type 316L stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Mounting channels welded horizontally to interior body sides at top, bottom, and center
- Panels and rack mounting angles can be mounted anywhere along channels
- Rolled lip around three sides of door and along top of enclosure opening excludes liquids and contaminants
- Stainless steel door clamps on three sides of door assure watertight seal
- Heavy gauge stainless steel continuous hinge
- Stainless steel hinge pin
- Stainless steel hasp and staple provided for padlocking
- Data pocket is high-impact thermoplastic
- Heavy duty lifting eyes are Type 316 stainless steel
- Oil-resistant door gasket attached with oil-resistant adhesive and held in place with steel retaining strips
- Ground studs in body of enclosure
- Bonding provision on doors

## Finish

Enclosures are unpainted. Front, sides, top, and back have smooth #4 brushed finish. Optional steel panels are painted white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
NEMA Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
JIC standard EGP-1-1967  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
E.I.A. RS-310-D  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Casters
- Clamping Nut Kit
- Corrosion Inhibitors
- Drip Shield Kit
- Electrical Interlocks
- Lighting Kit
- Panels
- Toggle Latch
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

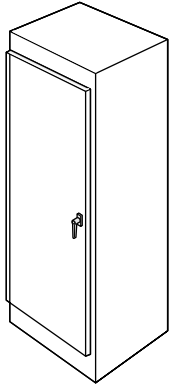
- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

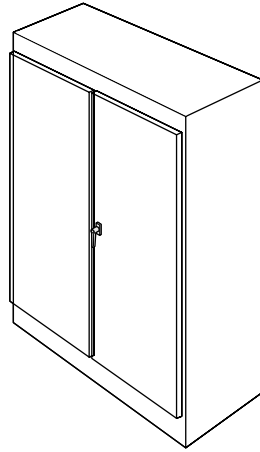
To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

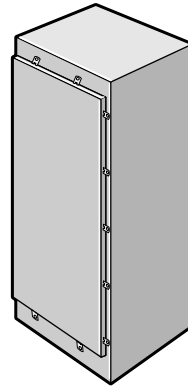
Free-Standing Enclosure Group **Accessory Selection Guide**



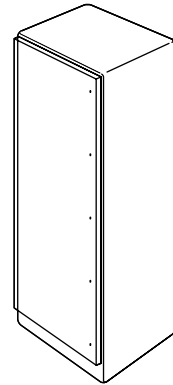
Stainless Steel Free-Standing  
Type 12 Single-Door  
Enclosures



Stainless Steel  
Free-Standing Type 12  
Two-Door Enclosures

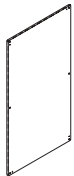


Stainless Steel  
Free-Standing  
Type 4X Enclosures

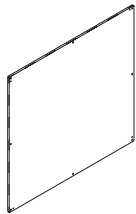


Free-Standing  
Fiberglass Type 4X  
Enclosure

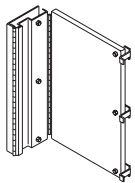
**Internal Accessories**



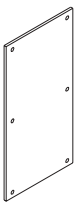
Panel for  
Single-Door  
Enclosures



Panel for  
Two-Door  
Enclosures



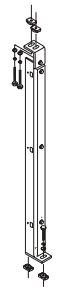
Swing-Out  
Panel



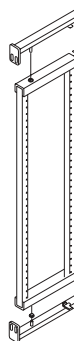
Side-Mounted  
Panel



Heavy Duty  
Panel Supports



Center Panel  
Support



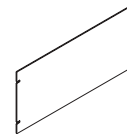
Swing-Out  
Rack Mounting  
Frame



Rack Mounting  
Angles



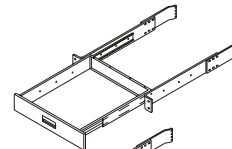
Clip Nut  
Package



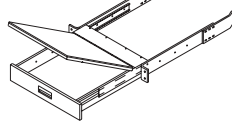
Rack Panel



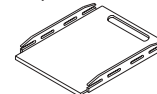
Screw Package



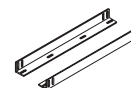
Drawer



Writing Surface  
for Drawers



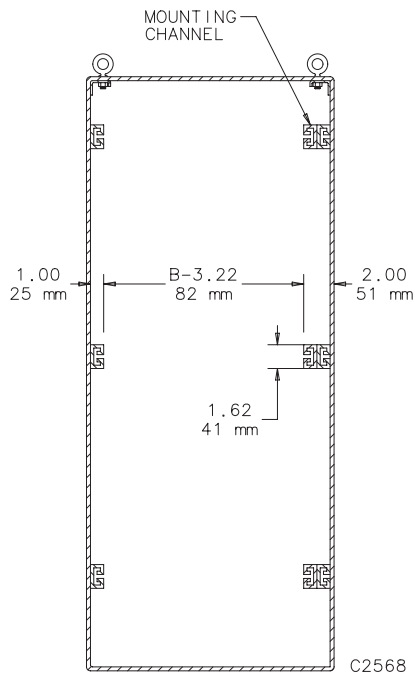
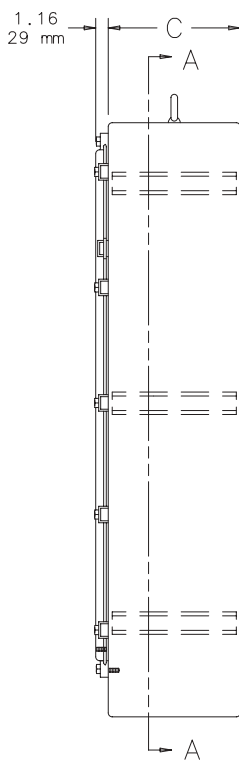
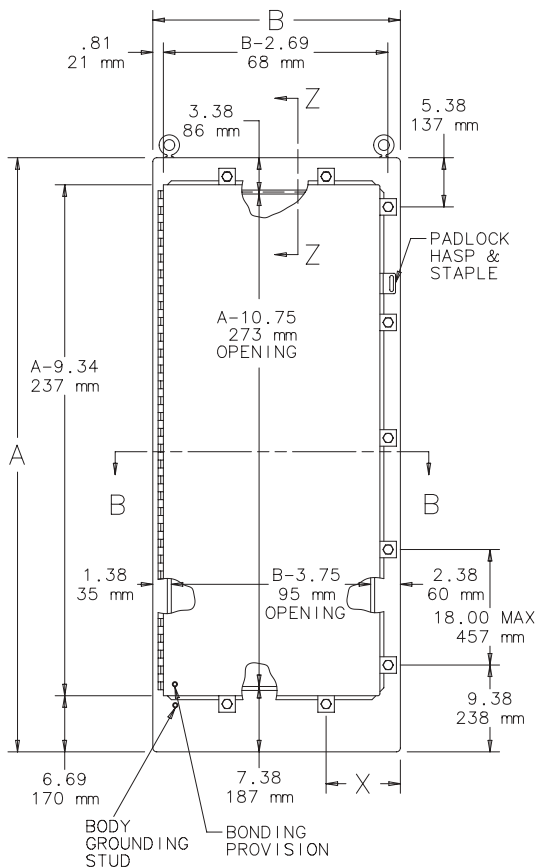
Shelf



Guides

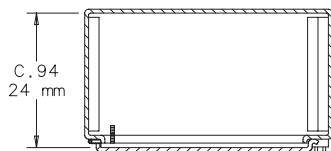
To select an accessory for the enclosure, see the chart on following pages.

# Stainless Steel Free-Standing Type 4X Enclosures

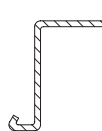


SECTION A-A

- NOTES: 1. Maximum spacing between clamps is 18.00 in. (457mm). See Chapter 12, General Accessories, for section views A-A and B-B showing accessories.  
2. Removable data pocket is 12.00 x 12.00 in. (305 x 305mm).



SECTION B-B



SECTION Z-Z

## Standard Sizes Stainless Steel Free-Standing Type 4X Enclosures

Type 304 Catalog Number	Type 316L Catalog Number	Enclosure Size A x B x C		X	
		inch	(millimeter)	inch	(mm)
A72H2518SSFS	A72H2518SS6FS	72.06 x 25.06 x 18.06	(1830 x 637 x 459)	6.38	(162)
A72H3124SSFS	A72H3124SS6FS	72.06 x 31.06 x 24.06	(1830 x 789 x 611)	8.38	(213)
A72H3724SSFS	A72H3724SS6FS	72.06 x 37.06 x 24.06	(1830 x 941 x 611)	10.38	(264)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

**Accessory Selection Stainless Steel Free-Standing Type 4X Enclosures**

(For details see Chapter 12, General Accessories)

**Panels**

Catalog Number	Description	Panel Size	A72H2518SSFS A72H2518SS6FS	A72H3124SSFS A72H3124SS6FS	A72H3724SSFS A72H3724SS6FS
A60P24F1	Full Panel	48.00 x 20.00 (1219 x 508)	a		
A60P24F2	Half Panel	24.88 x 20.00 (632 x 508)	a		
A72P24F1	Full Panel	60.00 x 20.00 (1524 x 508)	●		
A72P24F2	Half Panel	30.88 x 20.00 (784 x 508)	●		
A90P24F2	Half Panel	39.88 x 20.00 (1013 x 508)	a		
A72P30F1	Full Panel	60.00 x 26.00 (1525 x 661)		●	
A72P30F2	Half Panel	30.88 x 26.00 (784 x 660)		●	
A60P36F1	Full Panel	48.00 x 32.00 (1219 x 813)			a
A60P36F2	Half Panel	24.88 x 32.00 (632 x 813)			a
A72P36F1	Full Panel	60.00 x 32.00 (1524 x 813)			●
A72P36F2	Half Panel	30.88 x 32.00 (784 x 813)			●
A96P36F2	Half Panel	39.88 x 32.00 (1013 x 813)			a

**Swing-Out Panels**

Catalog Number	Description	Panel Size			
A72SP24F3	Full Panel	60.00 x 18.81 (1524 x 478)	●		
A72SP24F4	Half Panel	30.88 x 18.81 (784 x 478)	●		
A72SP30F3	Full Panel	60.00 x 24.81 (1524 x 630)		●	
A72SP30F4	Half Panel	30.88 x 24.81 (784 x 630)		●	
A72SP36F3	Full Panel	60.00 x 30.81 (1524 x 783)			●
A72SP36F4	Half Panel	30.88 x 33.81 (784 x 859)			●

**Side-Mounted Panels**

Catalog Number	Description	Panel Size			
A72SMP14	Panel	60.00 x 14.00 (1524 x 356)	●	●	●
A72SMP20	Panel	60.00 x 20.00 (1524 x 508)		●	●

**Heavy Duty Panel Supports**

Catalog Number	Description	Length			
A72FSHDPS	Two Full-Length Panel Supports	60.25 (1759)	●	●	●

**Clamping Nuts**

Catalog Number	Description	For			
APS1420CN	1/4-20 Clamping Nut (Qty 20)	Special Use	●	●	●
APS51618CN	5/16-18 Clamping Nut (Qty 20)	Special Use	●	●	●

**Casters**

Catalog Number	Description	Size			
DMCKC	Set of 4 Casters	4 high x 3 diameter	●	●	●

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

<sup>a</sup> Requires heavy duty panel support.

Continued on next page



A Pentair Company

# Stainless Steel Free-Standing Type 4X Enclosures

## Rack Mounting Accessory Selection Stainless Steel Free-Standing Type 4X Enclosures

(For details see Chapter 12, General Accessories)

### Rack Mounting Angles—LStyle (Type RP)

Catalog Number	Description	For Rack Size	Angle Length	Number of Units <sup>a</sup>	A72H2518SSFS A72H2518SS6FS	A72H3124SSFS A72H3124SS6FS	A72H3724SSFS A72H3724SS6FS
A60RP24F5	Two Full-Length Angles	19 inch (483 mm)	49.00 (1245)	28	●		
A72RP24F5	Two Full-Length Angles	19 inch (483 mm)	61.25 (1556)	35	●		
A72RP24F6	Two Half-Length Angles	19 inch (483 mm)	31.50 (800)	18	●		
A72RP30F5	Two Full-Length Angles	24 inch (610 mm)	61.25 (1556)	35		●	
A72RP30F6	Two Half-Length Angles	24 inch (610 mm)	31.50 (800)	18		●	
A90RP24F5	Two Half-Length Angles	19 inch (483 mm)	40.25 (1022)	23	●		

### Rack Mounting Angles—U Style (Type RA)

Catalog Number	Description	For Rack Size	Angle Length	Number of Units <sup>a</sup>			
A60RA19TH	Two Full-Length Angles	19 inch (483 mm)	49.00 (1245)	28	●		
A72RA19TH	Two Full-Length Angles	19 inch (483 mm)	61.25 (1556)	35	●		
A72RA24TH	Two Full-Length Angles	24 inch (610 mm)	61.25 (1556)	35		●	

### Clip Nut Package

Catalog Number	Description	Size	Fits			
AN1032	Zinc-Plated (package of 20)	#10-32	"RA" Type Rack Mounting Angles	●	●	
ANM5	Zinc-Plated (package of 20)	Metric M5	"RA" Type Rack Mounting Angles	●	●	

### Swing-Out Rack Mounting Frames

Catalog Number	Description	For Rack Size	Panel Space	Number of Units <sup>a</sup>			
A7230S0F19	Full Swing--Out Frame	19 inch (483 mm)	57.88 (1470)	33		●	
A7236S0F19	Full Swing--Out Frame	19 inch (483 mm)	57.88 (1470)	33			●

### Rack Panels

Catalog Number Aluminum	Catalog Number Steel	Rack Panel Size	Number of Units <sup>a</sup>			
A19RP1UAL	A19RP1U	19.00 x 1.75 (483 x 44)	1	●	b	b
A19RP2UAL	A19RP2U	19.00 x 3.50 (483 x 89)	2	●	b	b
A19RP3UAL	A19RP3U	19.00 x 5.25 (483 x 133)	3	●	b	b
A19RP4UAL	A19RP4U	19.00 x 7.00 (483 x 178)	4	●	b	b
A19RP5UAL	A19RP5U	19.00 x 8.75 (483 x 222)	5	●	b	b
A19RP6UAL	A19RP6U	19.00 x 10.50 (483 x 267)	6	●	b	b
A19RP7UAL	A19RP7U	19.00 x 12.25 (483 x 311)	7	●	b	b
A19RP8UAL	A19RP8U	19.00 x 14.00 (483 x 356)	8	●	b	b
A19RP9UAL	A19RP9U	19.00 x 15.75 (483 x 400)	9	●	b	b
A19RP10UAL	A19RP10U	19.00 x 17.50 (483 x 445)	10	●	b	b

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

<sup>a</sup> One unit = 1.75 inches (44 mm).

<sup>b</sup> Requires swing-out rack mounting frame.

**Rack Panels (Cont.)**

Catalog Number Aluminum	Catalog Number Steel	Rack Panel Size	Number of Units <sup>a</sup>	A72H2518SSFS A72H2518SS6FS	A72H3124SSFS A72H3124SS6FS	A72H3724SSFS A72H3724SS6FS
A19RP11UAL	A19RP11U	19.00 x 19.25 (483 x 489)	11	●	b	b
A19RP12UAL	A19RP12U	19.00 x 21.00 (483 x 533)	12	●	b	b
—	A19RP16U	19.00 x 22.75 (483 x 578)	16	●	b	b
A24RP2UAL	A24RP2U	24.00 x 3.50 (610 x 89)	2		●	
A24RP3UAL	A24RP3U	24.00 x 5.25 (610 x 133)	3		●	
A24RP4UAL	A24RP4U	24.00 x 7.00 (610 x 178)	4		●	
—	A24RP5U	24.00 x 8.75 (610 x 222)	5		●	
A24RP6UAL	A24RP6U	24.00 x 10.50 (610 x 267)	6		●	
A24RP8UAL	A24RP8U	24.00 x 14.00 (610 x 356)	8		●	

**Screw Package**

Catalog Number	Description	Size			
AS1032	Nickel-Plated (package of 20)	#10-32x.75 Truss Head	●	●	●
ASM5	Nickel-Plated (package of 20)	Metric M5x20			

**Drawers**

Catalog Number	Description	For Rack Size	Drawer Depth	Number of Units <sup>a</sup>			
DL329DR	Pull-Out Drawer	24 inch (610 mm)	3.50 (89)	4		c	
DL729DR	Pull-Out Drawer	24 inch (610 mm)	7.00 (178)	4		c	

**Writing Surface**

Catalog Number	Description	Fits Drawer			
DL29WS	Hinged Surface	DL329DR, DL729DR	c		

**Shelves**

Catalog Number	Description	For Rack Size	Number of Units <sup>a</sup>			
DL29SHP	Pull-Out Shelf	24 inch (610 mm)	1		c	

**Guides**

Catalog Number	Description	Number of Units <sup>a</sup>			
AG1U6	Chassis Guides (2)	1		c	

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

<sup>a</sup> One unit = 1.75 inches (44 mm).

<sup>b</sup> Requires swing-out rack mounting frame.

<sup>c</sup> Requires two sets of U-style (type RA) rack mounting angles for installation.

# Stainless Steel Free-Standing Type 12 Enclosures



## Application

Designed to house systems incorporating large components or complex mounting configurations. Three-point latching and sealing provide industry-leading protection from dust, dirt, oil, and water. These enclosures are used in machine tool applications for housing motor starters, drives, contactors, and PLCs, as well as a wide variety of other electrical and electronic equipment. The addition of 19-inch rack mounting accessories makes these enclosures ideal for providing rugged protection for sensitive rack mounted components in harsh industrial environments. These enclosures are used extensively in automotive, pulp and paper, wood products, textile, and similar industries. Four styles are available to provide maximum flexibility:

1. Single-Door Single- Access Enclosures (single door on front)
2. Single-Door Dual-Access Enclosures (single door on front and rear)
3. Two-Door Single-Access Enclosures (overlapping doors on front)
4. Two-Door Dual-Access Enclosures (overlapping doors on front and rear)

## Construction

- 12 gauge Type 304 stainless steel
- Seams continuously welded and ground smooth, no holes or knockouts
- Stiffeners welded to back of two-door enclosures maintain flatness and increase rigidity
- Heavy duty lifting eyes are Type 316 stainless steel
- Plated steel 3-point latching and keylocking handle
- Latch rods have rollers for easier door closing
- Heavy gauge continuous hinges support each door
- Data pocket, provided on door(s) with 3-point latches, is high-impact thermoplastic
- Mounting channels welded horizontally to interior body sides at top, bottom, and center
- Optional panels and rack mounting angles can be mounted anywhere along channels
- Oil-resistant door gasket attached with oil-resistant adhesive and held in place with steel retaining strips
- Ground studs in body of enclosure
- Bonding provision on doors

## Finish

Enclosures are unpainted. Cover, sides, top, and bottom have smooth #4 brushed finish. Optional steel panels, swing-out panels, side-mounted panels, rack mounting frames, heavy duty panel supports, and center panel supports are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 12  
NEMA/EEMAC Type 12  
E.I.A. RS-310-D  
CSA File No. LR42186: Type 12  
IEC 60529, IP55

## Accessories

See Chapter 12, General Accessories.

Casters  
Clamping Nut Kit  
Electrical Interlocks  
Floor Stand Kit  
Folding Shelf  
Lighting Kit  
Panel Support Kit  
Panels  
Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

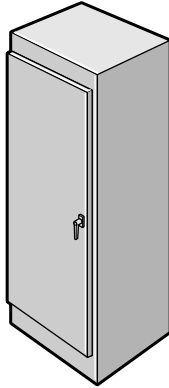
- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

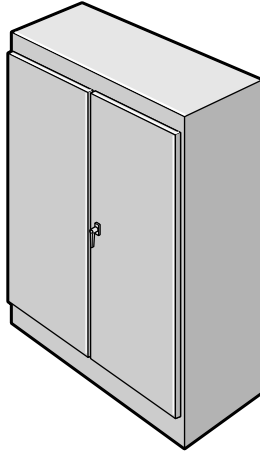
To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

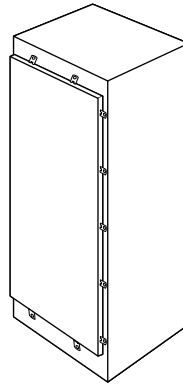
Free-Standing Enclosure Group **Accessory Selection Guide**



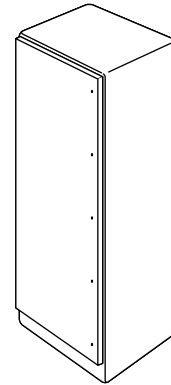
**Stainless Steel Free-Standing Type 12 Single-Door Enclosures**  
(Single-Access or Dual-Access)



**Stainless Steel Free-Standing Type 12 Two-Door Enclosures**  
(Single-Access or Dual-Access)



Stainless Steel Free-Standing Type 4X Enclosures



Free-Standing Fiberglass Type 4X Enclosure

**Internal Accessories**

	<b>Panel for Single-Door Enclosures</b>		<b>Heavy Duty Panel Supports</b>		<b>Rack Mounting Angles</b>
	<b>Panel for Two-Door Enclosures</b>		<b>Center Panel Support</b>		<b>Clip Nut Package</b>
	<b>Swing-Out Panel</b>		<b>Swing-Out Rack Mounting Frame</b>		<b>Rack Panel</b>
	<b>Side-Mounted Panel</b>				<b>Screw Package</b>
					<b>Drawer</b>
					<b>Writing Surface for Drawers</b>
					<b>Shelf</b>
					<b>Guides</b>

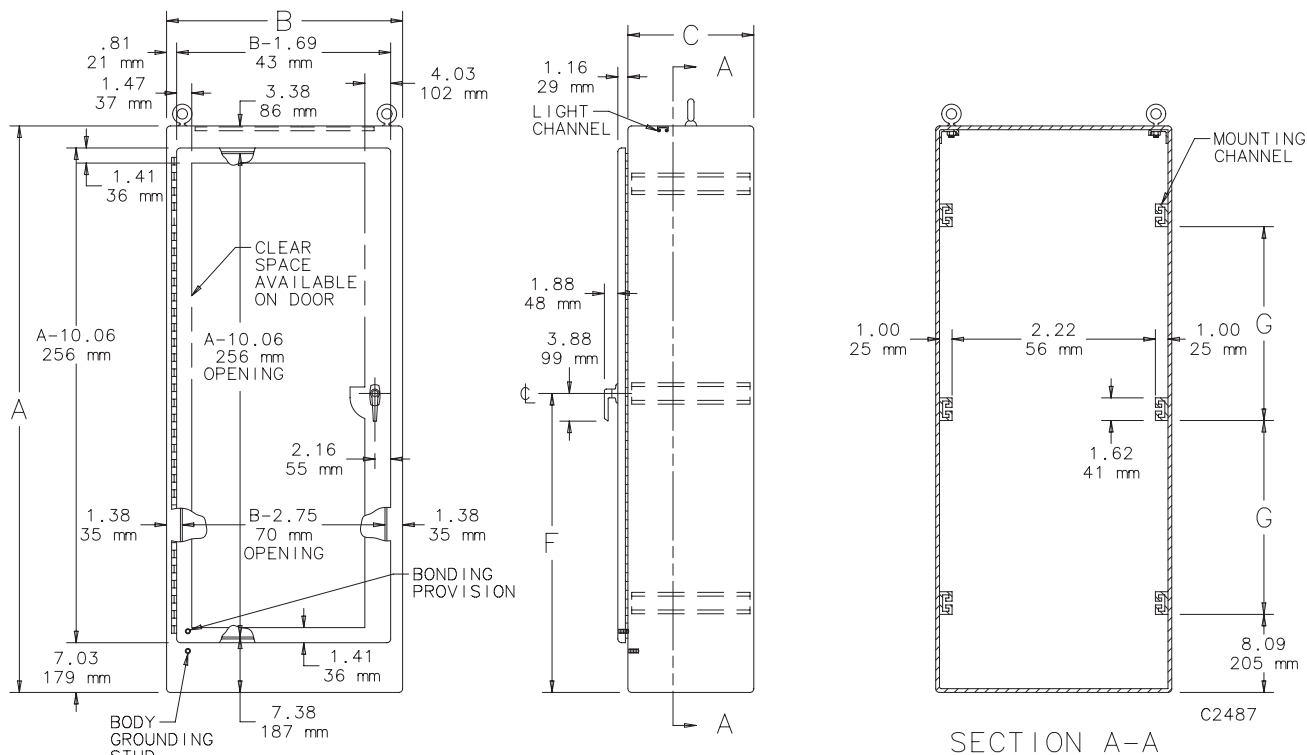
To select an accessory for the enclosure, see the Free-Standing Accessories charts on following pages.

C2586



# Stainless Steel Free-Standing Type 12 Enclosures

## Single-Door Single-Access



- NOTES: 1. Four lifting eyes are furnished if C=30.06 in. (764mm) or more.  
 2. See Chapter 12, General Accessories, for section views A-A and B-B showing accessories.  
 3. Removable 12.00 x 12.00 in. (305 x 305mm) data pocket.

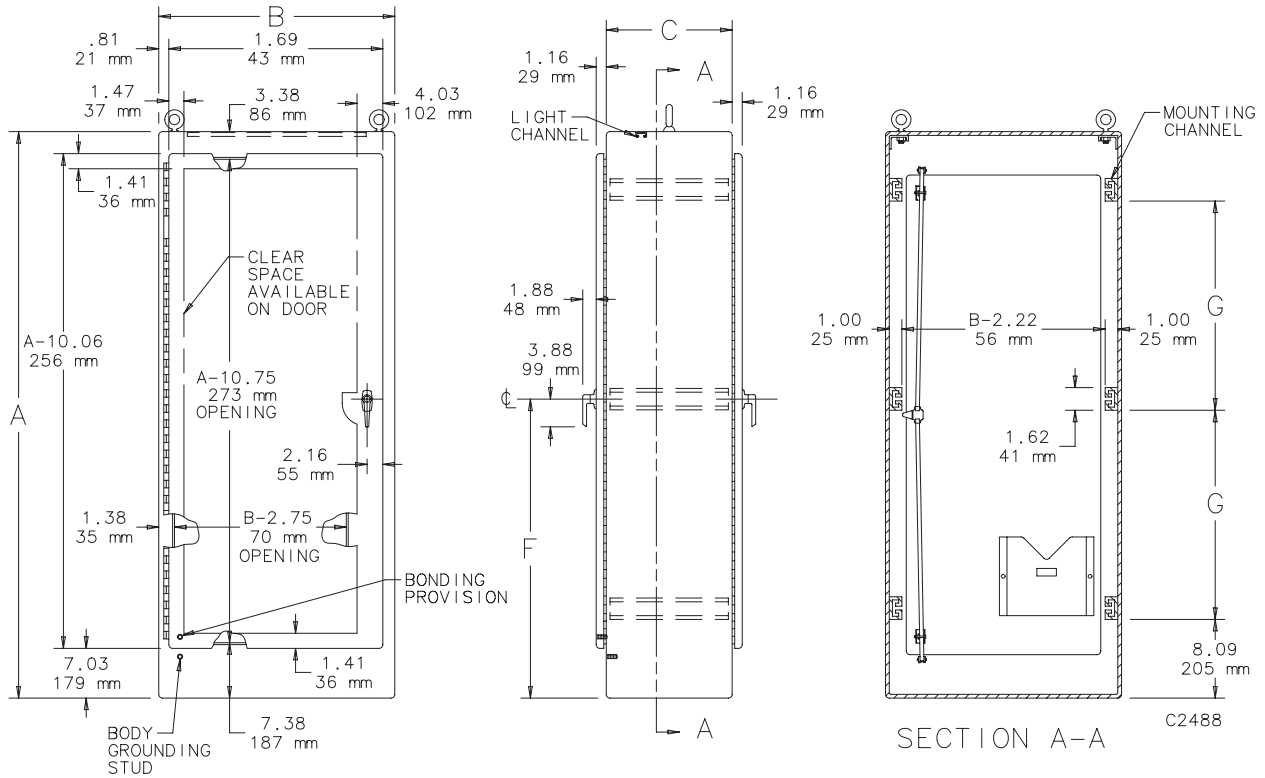
### Standard Sizes Single-Door Single-Access Stainless Steel Free-Standing Type 12 Enclosures

Enclosure Catalog Number	Enclosure Size A x B x C		F		G	
	inch	(millimeter)	inch	(mm)	inch	(mm)
A602418SSFS	60.06 x 24.06 x 18.06	(1526 x 611 x 459)	32.03	(814)	23.12	(587)
A722418SSFS	72.06 x 24.06 x 18.06	(1830 x 611 x 459)	38.03	(966)	29.12	(740)
A723018SSFS	72.06 x 30.06 x 18.06	(1830 x 764 x 459)	38.03	(966)	29.12	(740)
A723618SSFS	72.06 x 36.06 x 18.06	(1830 x 916 x 459)	38.03	(966)	29.12	(740)
A902420SSFS	90.06 x 24.06 x 20.06	(2288 x 611 x 510)	47.03	(1195)	38.12	(968)
A903620SSFS	90.06 x 36.06 x 20.06	(2288 x 916 x 510)	47.03	(1195)	38.12	(968)
A603624SSFS	60.06 x 36.06 x 24.06	(1526 x 916 x 611)	32.03	(814)	23.12	(587)
A722424SSFS	72.06 x 24.06 x 24.06	(1830 x 611 x 611)	38.03	(966)	29.12	(740)
A723024SSFS	72.06 x 30.06 x 24.06	(1830 x 764 x 611)	38.03	(966)	29.12	(740)
A723624SSFS	72.06 x 36.06 x 24.06	(1830 x 916 x 611)	38.03	(966)	29.12	(740)
A903624SSFS	90.06 x 36.06 x 24.06	(2288 x 916 x 611)	47.03	(1195)	38.12	(968)
A723630SSFS	72.06 x 36.06 x 30.06	(1830 x 916 x 764)	38.03	(966)	29.12	(740)
A723636SSFS	72.06 x 36.06 x 36.06	(1830 x 916 x 916)	38.03	(966)	29.12	(740)
† A903636SSFS	90.06 x 36.06 x 36.06	(2288 x 916 x 916)	47.03	(1195)	38.12	(968)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

† 1Back is 10 gauge.

■ **Single-Door Dual-Access**



- NOTES: 1. Four lifting eyes are furnished if C=30.06 in. (764mm) or more.  
 2. See Chapter 12, General Accessories, for section views A-A and B-B showing accessories.  
 3. Removable 12.00 x 12.00 in. (305 x 305mm) data pocket.

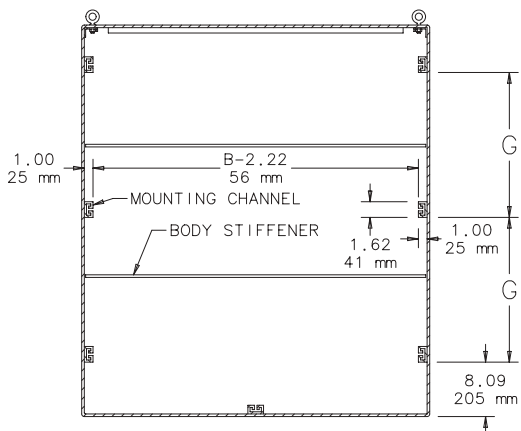
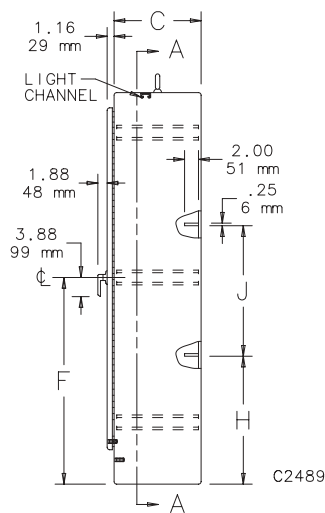
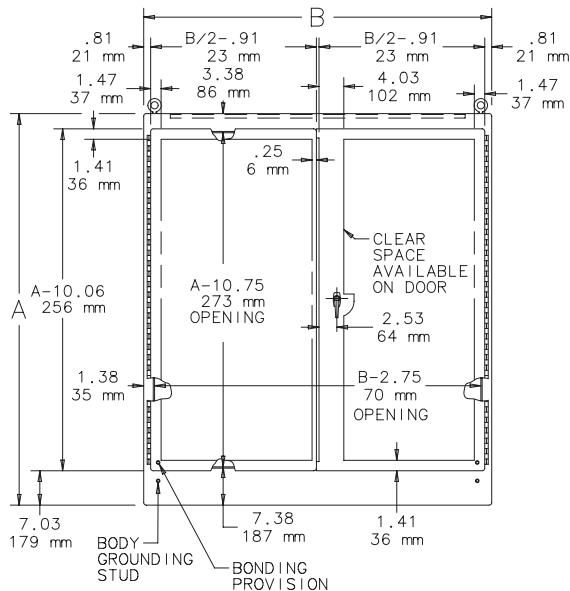
**Standard Sizes Single-Door Dual-Access Stainless Steel Free-Standing Type 12 Enclosures**

Enclosure Catalog Number	Enclosure Size A x B x C		F		G	
	inch	(millimeter)	inch	(mm)	inch	(mm)
A722424SSFSDA	72.06 x 24.06 x 24.06	(1830 x 611 x 611)	38.03	(966)	29.12	(740)
A723024SSFSDA	72.06 x 30.06 x 24.06	(1830 x 764 x 611)	38.03	(966)	29.12	(740)
A723624SSFSDA	72.06 x 36.06 x 24.06	(1830 x 916 x 611)	38.03	(966)	29.12	(740)
A903624SSFSDA	90.06 x 36.06 x 24.06	(2288 x 916 x 611)	47.03	(1195)	38.12	(968)
A722430SSFSDA	72.06 x 24.06 x 30.06	(1830 x 611 x 764)	38.03	(966)	29.12	(740)
A722436SSFSDA	72.06 x 24.06 x 36.06	(1830 x 611 x 916)	38.03	(966)	29.12	(740)
A723636SSFSDA	72.06 x 36.06 x 36.06	(1830 x 916 x 916)	38.03	(966)	29.12	(740)
A903636SSFSDA	90.06 x 36.06 x 36.06	(2288 x 916 x 916)	47.03	(1195)	38.12	(968)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

# Stainless Steel Free-Standing Type 12 Enclosures

## Two-Door Single-Access



SECTION A-A

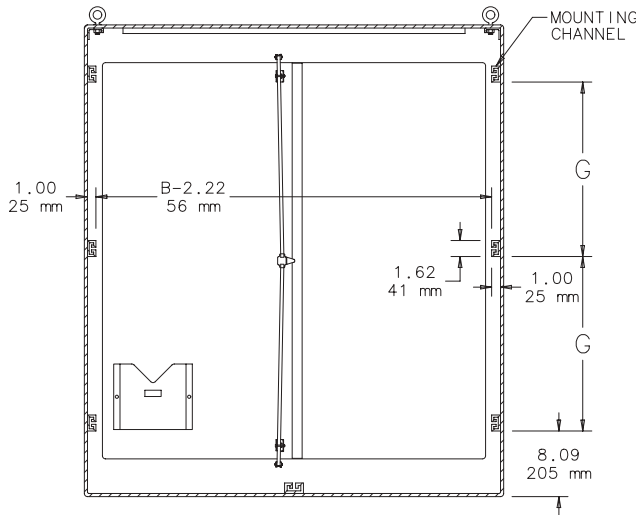
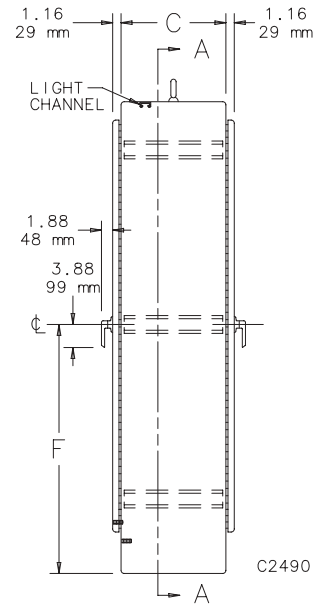
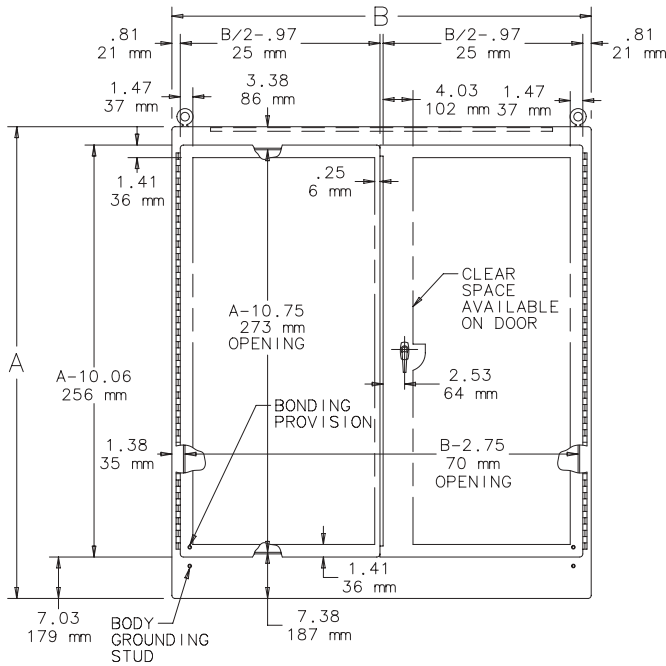
- NOTES: 1. Four lifting eyes are furnished if C=30.06 in. (764mm) or more.  
 2. See Chapter 12, General Accessories, for section views A-A and B-B showing accessories.  
 3. Removable 12.00 x 12.00 in. (305 x 305mm) data pocket.  
 4. Enclosure backs are 10 gauge.

### Standard Sizes Two-Door Single-Access Stainless Steel Free-Standing Type 12 Enclosures

Enclosure Catalog Number	Enclosure Size A x B x C		F		G		H		J			
	inch	(millimeter)	inch	(mm)	inch	(mm)	inch	(mm)	inch	(mm)		
A604818SSFSD	60.06	48.06 x 18.06	(1526 x 1221 x 472)	32.03	(814)	23.12	(587)	19.88	(505)	20.03	(509)	
A724818SSFSD	72.06	48.06	18.06	(1830 x 1221 x 472)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A726018SSFSD	72.06	60.06	18.06	(1830 x 1526 x 472)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A727218SSFSD	72.06	72.06	18.06	(1830 x 1830 x 472)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A904820SSFSD	90.06	48.06	20.06	(2288 x 1221 x 510)	47.03	(1195)	38.12	(968)	29.88	(759)	30.03	(763)
A907220SSFSD	90.06	72.06	20.06	(2288 x 1830 x 510)	47.03	(1195)	38.12	(968)	29.88	(759)	30.03	(763)
A724824SSFSD	72.06	48.06	24.06	(1830 x 1221 x 611)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A726024SSFSD	72.06	60.06	24.06	(1830 x 1526 x 611)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A727224SSFSD	72.06	72.06	24.06	(1830 x 1830 x 611)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A907224SSFSD	90.06	72.06	24.06	(2288 x 1830 x 611)	47.03	(1195)	38.12	(968)	29.88	(759)	30.03	(763)
A726036SSFSD	72.06	60.06	36.06	(1830 x 1526 x 916)	38.03	(966)	29.12	(740)	23.88	(607)	24.03	(610)
A907236SSFSD	90.06	72.06	36.06	(2288 x 1830 x 916)	47.03	(1195)	38.12	(968)	29.88	(759)	30.03	(763)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

■ Two-Door Dual-Access



SECTION A-A

- NOTES: 1. Four lifting eyes are furnished if C=30.06 in. (764mm) or more.  
 2. See Chapter 12, General Accessories, for section views A-A and B-B showing accessories.  
 3. Removable 12.00 x 12.00 in. (305 x 305mm) data pocket.

**Standard Sizes Two-Door Dual-Access Stainless Steel Free-Standing Type 12 Enclosures**

Enclosure Catalog Number	Enclosure Size A x B x C		F		G	
	inch	(millimeter)	inch	(mm)	inch	(mm)
A724824SSFSDAD	72.06 x 48.06 x 24.06	(1830 x 1221 x 611)	38.03	(966)	29.12	(740)
A726024SSFSDAD	72.06 x 60.06 x 24.06	(1830 x 1526 x 611)	38.03	(966)	29.12	(740)
A727224SSFSDAD	72.06 x 72.06 x 24.06	(1830 x 1830 x 611)	38.03	(966)	29.12	(740)
A907224SSFSDAD	90.06 x 72.06 x 24.06	(2288 x 1830 x 611)	47.03	(1195)	38.12	(968)
A726036SSFSDAD	72.06 x 60.06 x 36.06	(1830 x 1526 x 916)	38.03	(966)	29.12	(740)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



Panels	SINGLE-DOOR SINGLE-ACCESS ENCLOSURES										SINGLE-DOOR DUAL-ACCESS ENCLOSURES					TWO-DOOR SINGLE-ACCESS ENCLOSURES					TWO-DOOR DUAL-ACCESS ENCLOSURES																
	A602418SSFS	A722418SSFS	A-723018SSFS	A723618SSFS	A902420SSFS	A903620SSFS	A-803624SSFS	A722424SSFS	A722024SSFS	A722624SSFS	A903624SSFS	A723630SSFS	A723636SSFS	A903636SSFS	A722424SSFSFDA	A722024SSFSFDA	A723624SSFSFDA	A903624SSFSFDA	A722424SSFSFDA	A722024SSFSFDA	A903624SSFSFDA	A604618SSFS	A724618SSFS	A726018SSFS	A727218SSFS	A904620SSFS	A907220SSFS	A724624SSFS	A726024SSFS	A727224SSFS	A907224SSFS	A724624SSFSFDA	A726024SSFSFDA	A-907224SSFSFDA	A-726036SSFSFDA		
Catalog Number	Description	Panel Size																																			
A60P48F1	Full Panel	48.00 x 44.00 (1219 x 1118)																																			
A72P48F1	Full Panel	60.00 x 44.00 (1524 x 1118)																																			
A72P48F2	Half Panel	30.88 x 44.00 (784 x 1118)																																			
A90P48F1	Full Panel	78.00 x 44.00 (1981 x 1118)																																			
A90P48F2	Half Panel	39.88 x 44.00 (1013 x 1118)																																			
A72P60F1	Full Panel	60.00 x 56.00 (1524 x 1422)																																			
A72P60F2	Half Panel	30.88 x 56.00 (784 x 1422)																																			
A72P72F1	Full Panel	60.00 x 68.00 (1524 x 1727)																																			
A72P72F2	Half Panel	30.88 x 68.00 (784 x 1727)																																			
A90P72F1	Full Panel	78.00 x 68.00 (1981 x 1727)																																			
A90P72F2	Half Panel	39.88 x 68.00 (1013 x 1727)																																			

**Center Panel Supports**

Catalog Number	Description																																		
A60FSCPS	Center Panel Support																																		
A72FSCPS	Center Panel Support																																		
A90FSCPS	Center Panel Support																																		

**Clamping Nuts**

Catalog Number	Description	For																																		
APS1420CN	1/4-20 Clamping Nut (Qty 20) Special Use																																			
APS51616CN	5/16-18 Clamping Nut (Qty 20) Special Use																																			

**Casters**

Catalog Number	Description	Size																																		
DMCKC	Set of 4 Casters	4 high x 3 diameter																																		

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

- <sup>1</sup> Requires heavy duty panel supports.
- <sup>2</sup> Requires center panel support(s).
- <sup>3</sup> Fits in top half or bottom half of enclosure.
- <sup>4</sup> Will not fit if other panels are also installed in same enclosure.







# Stainless Steel APX-FE Enclosures



## Application

This single-bay, solid-side stainless steel design accepts all APX® 19-inch interior mounting components while providing unmatched protection in highly corrosive environments. It is typically used in food processing plants, pharmaceutical manufacturing facilities, petrochemical plants, pulp and paper processing, and waste-water treatment facilities.

## Construction (Standard Package)

- Enclosure body manufactured from 14 or 12 gauge Type 304 stainless steel
- Doors and covers are 14 gauge Type 304 stainless steel
- Flanged gutter provided on top of enclosure opening to exclude liquids and contaminants
- Sides and top are solid
- Heavy duty lifing eyes are Type 316 stainless steel
- Front door, hinged on left, has flush keylocking pushbutton handle (black) with a 3-point latch
- Solid screw cover on back of enclosure
- Integral side and bottom grid rails provide flexible mounting of internal components
- Seamless foam-in-place gaskets provide a watertight and dust-tight seal against moisture and contaminants
- Bonding provision on enclosure door
- Corrosion-resistant stainless steel external hardware
- No special tools required to assemble other components or accessories

## Finish

Stainless steel enclosure body, doors, sides, covers, and top have a smooth brushed finish. Keylocking handle is black.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
 NEMA/EEMAC Type 3R, Type 4, Type 4X, and Type 12  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Casters
- Clamping Nut Kit
- Clip Nut Package
- Data Pocket
- Drawers
- Guides
- Handles
- Key Inserts
- Lighting Package
- Panels
- Rack Angles
- Rack Panels
- Screw Package
- Shelves
- Slides
- Tamperproof Screws and Bit
- Writing Surface

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Assembled Package with front door and rear cover

Catalog Number	Nominal Size A x B x C
XFE1766SS	1714.5 x 597.9 x 554.0 (67.50 x 23.54 x 21.81)
XFE2166SS	2115.8 x 599.2 x 555.2 (83.30 x 23.59 x 21.86)
XFE2168SS	2115.8 x 599.2 x 755.4 (83.30 x 23.59 x 29.74)
XFE2188SS	2115.8 x 799.3 x 755.4 (83.30 x 31.47 x 29.74)

Inch dimension in ( ).

U.S. Patents 5,172,944  
 5,407,263  
 5,380,083  
 5,388,903  
 5,292,189  
 343,347

German Patent DEM 93010053.2

## Summary of Components Included in Assembled APX-FE Packages

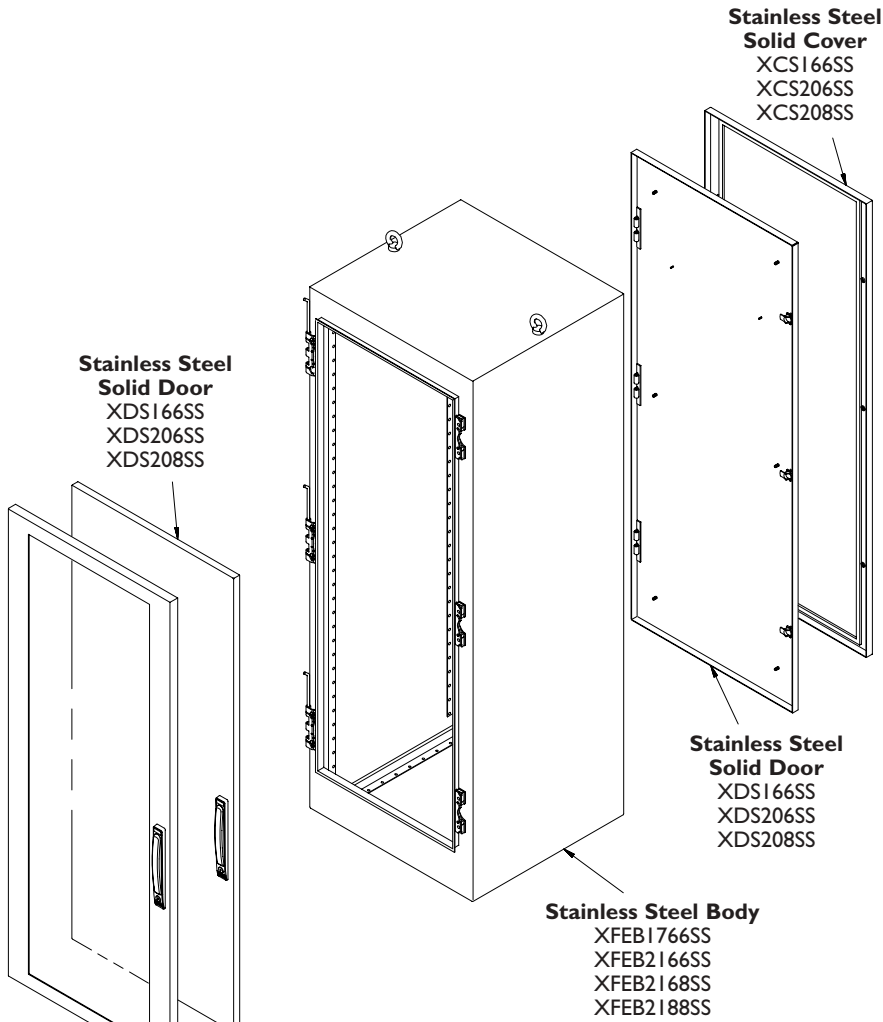
Component	Qty.	Catalog Number
Body	1	XFEB1766SS, XFEB2166SS XFEB2168SS, XFEB2188SS
Solid door, front	1	XDS166SS, XDS206SS, XDS208SS
Solid cover, rear	1	XCS166SS, XCS206SS, XCS208SS
Flush handle with black keylock pushbutton	1	XFHKPBBAA

All components may be ordered separately by catalog number. Solid front doors, if ordered separately, are furnished with hex inserts in place of standard package handle.

## Additional Stainless Steel Components Available for APX-FE Enclosures

Component	Catalog Number
Window door, fits body 1700 x 600	XDW166SS
Window door, fits body 2100 x 600	XDW206SS
Window door, fits body 2100 x 800	XDW208SS

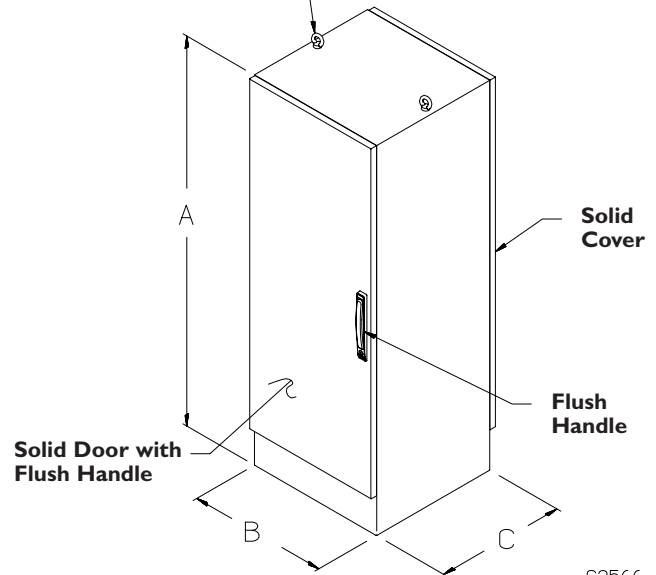
See Chapter 1, Modular Enclosures, for complete product descriptions.



**Stainless Steel Window Door**  
XDW166SS  
XDW206SS  
XDW208SS

**Assembled Packages**  
XFE1766SS  
XFE2166SS  
XFE2168SS  
XFE2188SS

Four (4) Eyebolts when  
B or C is > 600mm



C2566

# Two-Door Stainless Steel Type 4X Enclosures for Flange-Mounted Disconnects



## Application

Designed to house the following flange-mounted disconnect switches and circuit breakers:

### ◆ Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mounted variable depth operating mechanisms and Bulletin 1494V flange-mounted variable depth operating mechanisms for circuit breakers.
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers.

*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-mounted variable depth operating mechanisms for disconnect switches and circuit breakers.

### ◆ Cutler-Hammer/Westinghouse

Type C361 disconnect switches and operator mechanisms, and Type C371 circuit breakers and circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.

### ◆ General Electric

Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra Flex™ cable operators for circuit breakers.

### ◆ Siemens ITE Max-Flex™

flange-mounted variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches.

- ◆ **Square D** disconnect switches and circuit breakers used with Class 9422 flange-mounted variable depth operating mechanisms or cable mechanisms.

*These enclosures will not receive Class 9422 bracket-mounted disconnect devices, Class 9422TG1, or TG2 devices.*

## Construction

- 10 gauge stainless steel
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough collar excludes liquids and contaminants
- Removable center posts permit easy panel installation
- Heavy gauge continuous hinges
- Heavy duty 3-point latching mechanism operated by Type 316 stainless steel POWERGLIDE® locking handle on all doors
- Rollers on ends of latch rods for easier door closing
- Heavy duty lifting eyes are Type 316 stainless steel
- Data pocket is high-impact thermoplastic
- 15-inch floor stands are welded to enclosure
- Provisions for mounting fluorescent light
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Panel supports
- Collar studs provided for mounting optional panels
- Master door is right-hand door on X enclosures and left-hand door on CPX enclosures
- Patented Type 316 stainless steel handle with defeater on master door
- Patented Type 316 stainless steel handle (non-defeater) on slave door
- Mechanical interlock operated by master door prevents slave door from being opened first; doors can be closed in any order.
- Preferred cutout on right flange of centerpost provides mounting for most disconnect operators
- Bonding provision on doors and grounding studs on body.

## Finish

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Optional panels are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, Type 12  
 NEMA/IEEEMAC: Type 3R, Type 4, Type 4X, Type 12  
 JIC standards EGP-1-1967  
 CSA File No. LR42186: Type 4, Type 4X, Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Blank Adapter Plate  
 Blower Package  
 Corrosion Inhibitors  
 Electric Heater  
 Fan Cooling Products  
 Lighting Kit  
 Operator Adapters  
 Panels (see table)  
 Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## IMPORTANT

### A complete assembly consists of:

1. An enclosure.
2. A panel
3. An operator adapter (see Disconnect Enclosure Accessories in this publication to select the proper operator adapter for the brand and type of disconnect being used). Please note: door hardware is furnished with enclosure.
4. A disconnect device.

*Consult the Technical Information section of this catalog for wire bend information and [hoffmanonline.com](http://hoffmanonline.com) for disconnect manufacturer information. Disconnect switch (or circuit breakers), operating handle, and operating mechanism are not furnished with enclosure.*

### When ordering a disconnect:

Consult Space Occupied by Disconnect drawing on following pages to determine whether the disconnect device you are using will fit the enclosure size you have selected.



**Standard Sizes Two-Door Stainless Steel Type 4X, Type 4, Type 12 Enclosures with Provision for Disconnect Operator on Right Flange**

Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E
A60X4912SSLPN4	60.12 x 49.75 x 12.12 (1527 x 1264 x 308)	A60P48	56.00 x 44.00 (1422 x 1118)
A60X6112SSLPN4	60.12 x 61.75 x 12.12 (1527 x 1568 x 308)	A60P60	56.00 x 56.00 (1422 x 1422)
A72X6112SSLPN4	72.12 x 61.75 x 12.12 (1832 x 1568 x 308)	A72P60	68.00 x 56.00 (1727 x 1422)
A72X7312SSLPN4	72.12 x 73.75 x 12.12 (1832 x 1873 x 308)	A72P72	68.00 x 68.00 (1727 x 1727)
A60X4918SSLPN4	60.12 x 49.75 x 18.12 (1527 x 1264 x 460)	A60P48	56.00 x 44.00 (1422 x 1118)
A60X6118SSLPN4	60.12 x 61.75 x 18.12 (1527 x 1568 x 460)	A60P60	56.00 x 56.00 (1422 x 1422)
A72X6118SSLPN4	72.12 x 61.75 x 18.12 (1832 x 1568 x 460)	A72P60	68.00 x 56.00 (1727 x 1422)
A72X7318SSLPN4	72.12 x 73.75 x 18.12 (1832 x 1873 x 460)	A72P72	68.00 x 68.00 (1727 x 1727)
A72X7324SSLPN4	72.12 x 73.75 x 24.12 (1832 x 1873 x 613)	A72P72	68.00 x 68.00 (1727 x 1727)

**Standard Sizes Two-Door Stainless Steel Type 4X, Type 4, Type 12 Enclosures with Provision for Disconnect Operator on Centerpost**

Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E
A60CPX4812SSLPN4	60.12 x 48.50 x 12.12 (1527 x 1232 x 308)	A60P48	56.00 x 44.00 (1422 x 1118)
A60CPX6012SSLPN4	60.12 x 60.50 x 12.12 (1527 x 1537 x 308)	A60P60	56.00 x 56.00 (1422 x 1422)
A72CPX7212SSLPN4	72.12 x 72.50 x 12.12 (1832 x 1841 x 308)	A72P72	68.00 x 68.00 (1727 x 1727)
A72CPX7218SSLPN4	72.12 x 72.50 x 18.12 (1832 x 1841 x 460)	A72P72	68.00 x 68.00 (1727 x 1727)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

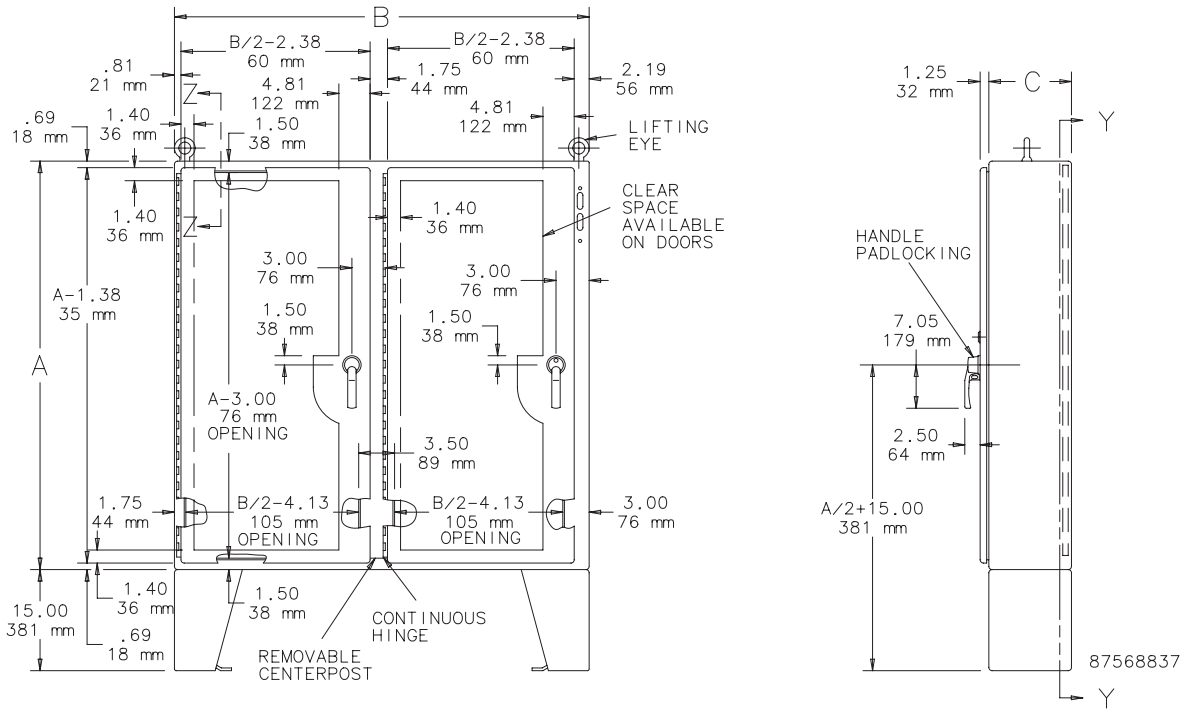
\* Panels must be ordered separately.

**Disconnect Enclosures with Preferred Cutout**

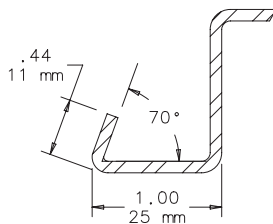
Preferred cutout requires an operator adapter for the brand and type of disconnect being used. See Disconnect Enclosure Accessories to select the proper operator adapter.

# Two-Door Stainless Steel Type 4X Enclosures for Flange-Mounted Disconnects

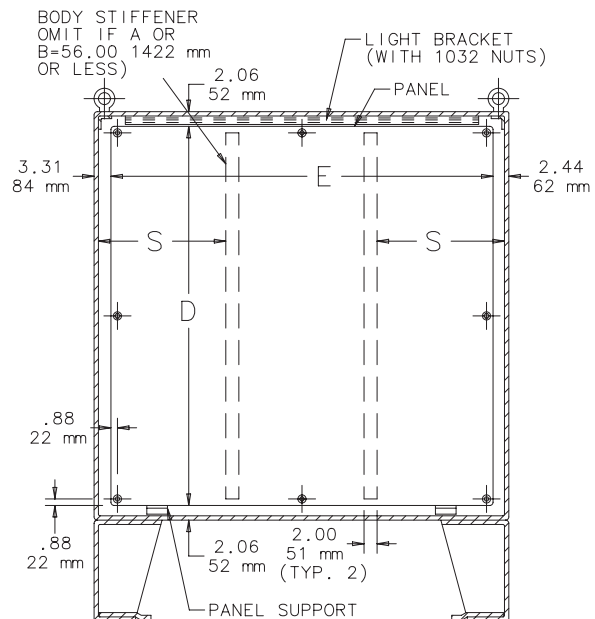
## Disconnect Operator on the Right Flange



- NOTES: 1. Panels are 10 gauge steel. Right door is master door.  
 2. Right door includes removable 12.00 x 12.00 in. (305 x 305mm) data pocket.

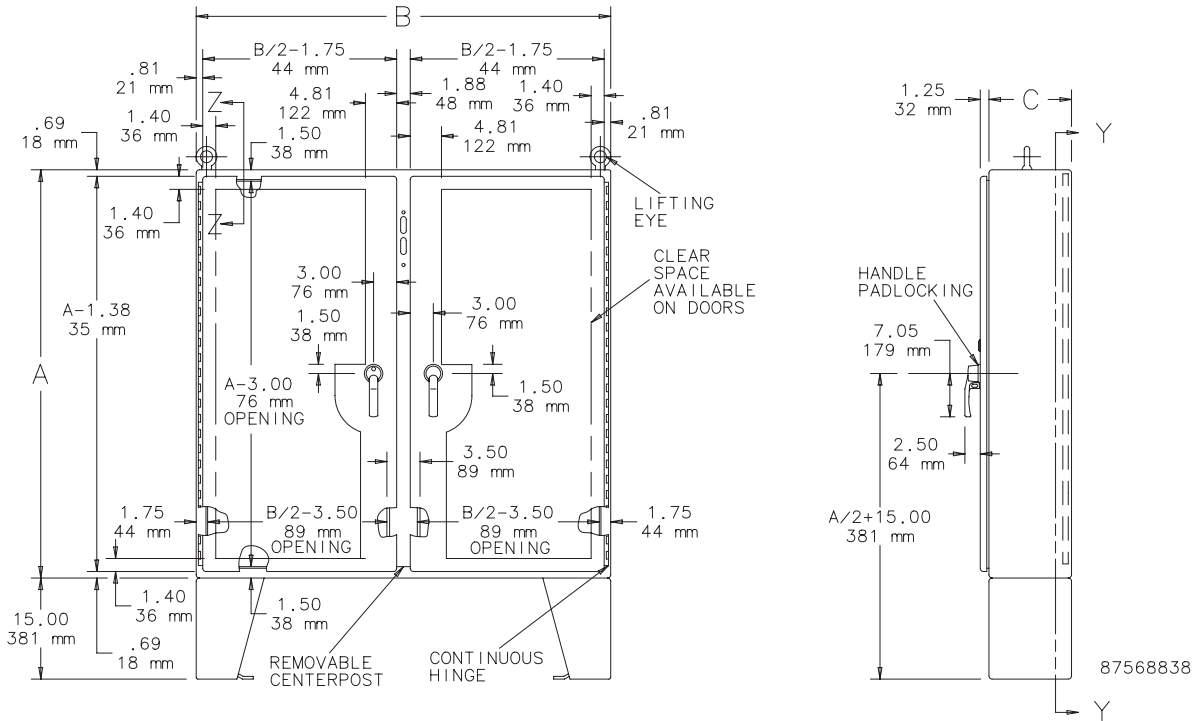


SECTION Z-Z

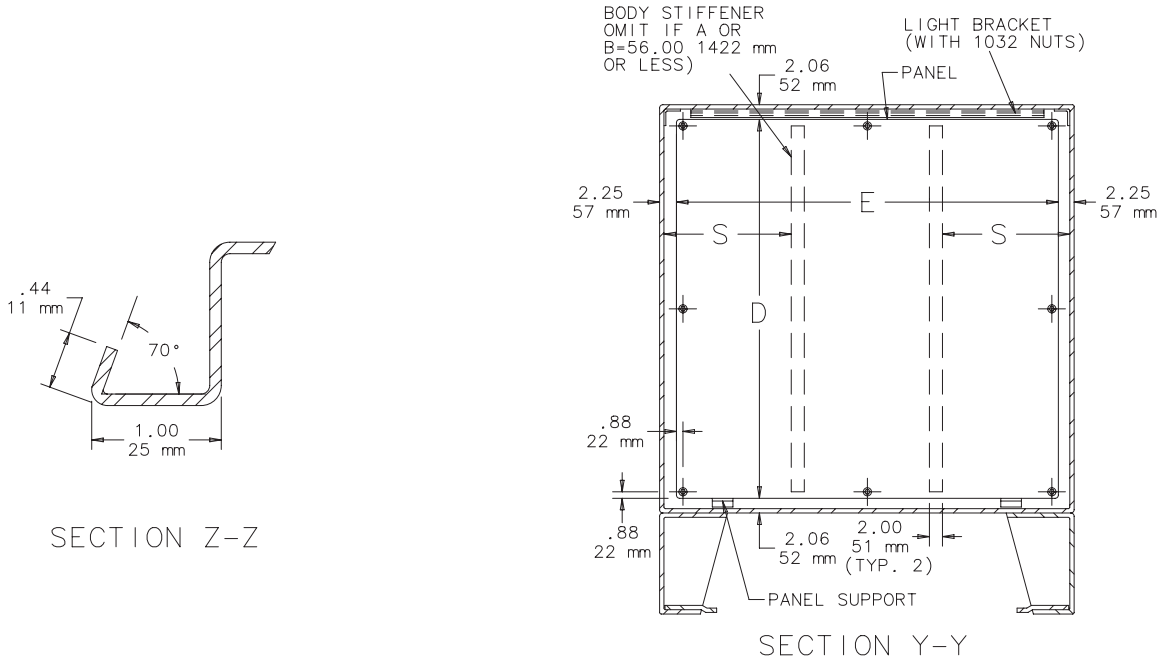


SECTION Y-Y

■ Disconnect Operator on the Centerpost Flange

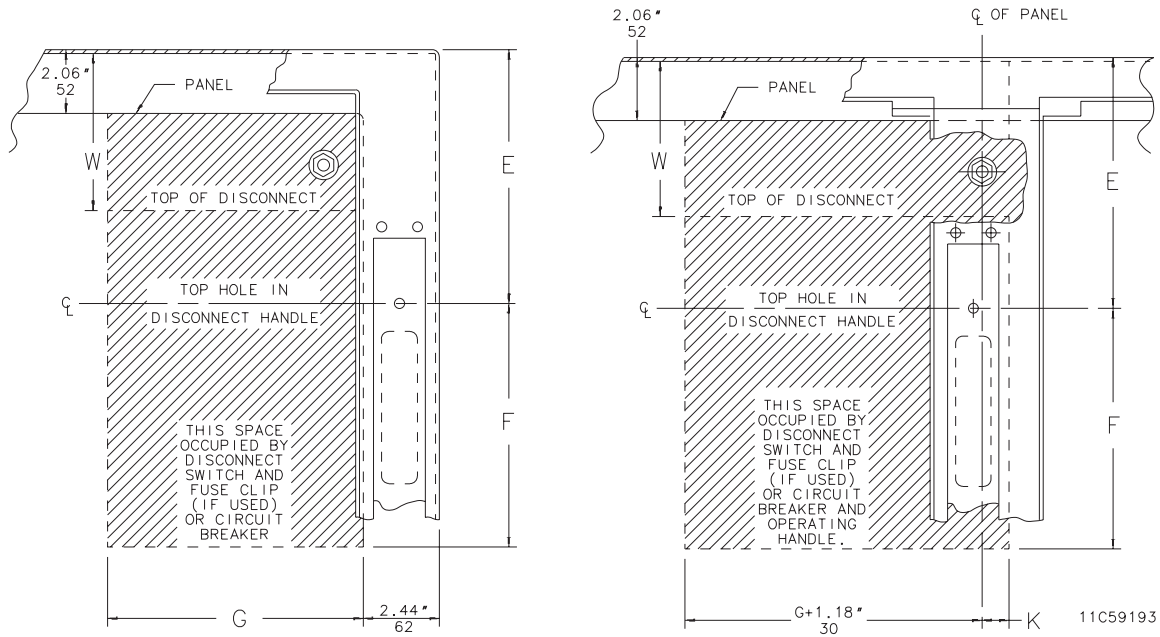


- NOTES: 1. Panels are 10 gauge steel. Left door is master door.  
2. Left door includes removable 12.00 x 12.00 in. (305 x 305mm) data pocket.



# Two-Door Stainless Steel Type 4X Enclosures for Flange-Mounted Disconnects

## Space Occupied by Disconnect



Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for FI, GI, and WI dimensions of various brands of disconnects.



NOTE: Disconnects will occupy space on panel shown by dimensions E1, F1, G1, and K. Wiring Space W1 is available when disconnect is installed in the enclosure. See the Technical Information section of this catalog for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

Refer to **National Electrical Code® 2002** 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.**

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

- ◆ ABB Controls flange-operated devices
- ◆ Cutler-Hammer C361 devices
- ◆ Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see next paragraph for option)
- ◆ General Electric Type TDA devices (see next paragraph for option)
- ◆ Square D Class 9422 devices (see next paragraph for option)

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

- ◆ For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CSI 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 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.





A Pentair Company

Rev. A June 2003

# Stainless Steel Heavy Duty Free-Standing Type 4X Enclosures for Flange-Mounted Disconnects



Standard single-door and three-door enclosures are also available.

## Application

Designed to house the following flange-mounted disconnect switches and circuit breakers:

### ◆ Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mounted variable depth operating mechanisms and Bulletin 1494V flange-mounted variable depth operating mechanisms for circuit breakers.
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers.

*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-mounted variable-depth operating mechanisms for disconnect switches and circuit breakers.

- ◆ **Cutler-Hammer/Westinghouse** Type C361 disconnect switches and operator mechanisms. Flex Shaft™ handle operators for circuit breakers.

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

- ◆ **Siemens ITE Max-Flex™** flange-mounted variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches.

- ◆ **Square D** disconnect switches and circuit breakers used with Class 9422 flange-mounted variable-depth operating mechanisms or cable mechanisms.

*These enclosures will not receive Class 9422 bracket-mounted disconnect devices or Class 9422TG1 or TG2 devices.*

## Construction

- 10 gauge stainless steel
- Seams continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough collar excludes liquids and contaminants.
- Heavy duty lifting eyes anchor into reinforced top
- Removable centerposts permit easy panel installation
- Heavy gauge continuous hinges
- Heavy duty 3-point latching mechanism operated by Type 316 stainless steel POWERGLIDE® padlocking handle on all doors
- Ends of latch rods have rollers for easier door closing
- Panel supports
- Data pocket is high-impact thermoplastic
- Seamless foam-in-place gasket provides oil-tight and dust-tight seal against contaminants
- Removable 10 gauge steel panels mount on collar studs
- Master door is far right-hand door on all enclosures
- Patented Type 316 stainless steel handle with defeater on master door
- Patented Type 316 stainless steel handle (non-defeater) on master door
- Mechanical interlock activated by master door prevents slave doors from being opened first. Doors can be closed in any order.
- Preferred cutout on right flange provides mounting for most disconnect operators
- Bonding provision on doors and grounding studs on body

## Finish

Stainless steel enclosures are unpainted. Sides and body have smooth #4 brushed finish. Panels are white.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, Type 12  
NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12  
JIC standards EGP-1-1967 and EMP-1-1967  
CSA File No. LR42186: Type 4, Type 4X, Type 12  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Blank Adapter Plate
- Blower Package
- Corrosion Inhibitors
- Electric Heater
- Fan Cooling Products
- Floor Stand Kit
- Lighting Kit
- Operator Adapters
- Panels, Replacement
- Window Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories
- Drip shield

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## IMPORTANT

### A complete assembly consists of:

1. An enclosure.
2. A panel
3. An operator adapter (see Disconnect Enclosure Accessories in this publication to select the proper operator adapter for the brand and type of disconnect being used). Please note: door hardware is furnished with enclosure.
4. A disconnect device.

*Consult the Technical Information section of this catalog for wire bend information and [hoffmanonline.com](http://hoffmanonline.com) for disconnect manufacturer information. Disconnect switch (or circuit breakers), operating handle, and operating mechanism are not furnished with enclosure.*

### When ordering a disconnect:

Consult Space Occupied by Disconnect drawing on following pages to determine whether the disconnect device you are using will fit the enclosure size you have selected.

U.S. Patents 5,634,357  
D385,7683

**Standard Sizes Stainless Steel Single-Door Enclosures**

Enclosure Catalog Number	Enclosure Size A x B x C		* Panel Size	
	inch	(millimeter)	inch	(mm)
A72XM2818SSN4	72.12 x 28.25 x 18.12	(1832 x 718 x 460)	60.00 x 21.75	(1524 x 552)
A72XM3418SSN4	72.12 x 34.25 x 18.12	(1832 x 870 x 460)	60.00 x 27.75	(1524 x 705)
A72XM4018SSN4	72.12 x 40.25 x 18.12	(1832 x 1022 x 460)	60.00 x 33.75	(1524 x 857)
A84XM4018SSN4	84.12 x 40.25 x 18.12	(2137 x 1022 x 460)	72.00 x 33.75	(1829 x 857)
A90XM4018SSN4	90.12 x 40.25 x 18.12	(2289 x 1022 x 460)	78.00 x 33.75	(1981 x 857)
A90XM4020SSN4	90.12 x 40.25 x 20.12	(2289 x 1022 x 511)	78.00 x 33.75	(1981 x 857)
A84XM4024SSN4	84.12 x 40.25 x 24.12	(2137 x 1022 x 613)	72.00 x 33.75	(1829 x 857)
A90XM4024SSN4	90.12 x 40.25 x 24.12	(2289 x 1022 x 613)	78.00 x 33.75	(1981 x 857)

**Standard Sizes Stainless Steel Two-Door Enclosures**

Enclosure Catalog Number	Enclosure Size A x B x C		* Panel Size	
	inch	(millimeter)	inch	(mm)
A72XM5418SSN4	72.12 x 54.50 x 18.12	(1832 x 1384 x 460)	60.00 x 48.00	(1524 x 1219)
A72XM6618SSN4	72.12 x 66.50 x 18.12	(1832 x 1670 x 460)	60.00 x 60.00	(1524 x 1524)
A72XM7818SSN4	72.12 x 78.50 x 18.12	(1832 x 1994 x 460)	60.00 x 72.00	(1524 x 1829)
A84XM7818SSN4	84.12 x 78.50 x 18.12	(2137 x 1994 x 460)	72.00 x 72.00	(1829 x 1829)
A90XM7818SSN4	90.12 x 78.50 x 18.12	(2289 x 1994 x 460)	78.00 x 72.00	(1981 x 1829)
A90XM7820SSN4	90.12 x 78.50 x 20.12	(2289 x 1994 x 511)	78.00 x 72.00	(1981 x 1829)
A72XM7824SSN4	72.12 x 78.50 x 24.12	(1832 x 1994 x 613)	60.00 x 72.00	(1524 x 1829)
A84XM7824SSN4	84.12 x 78.50 x 24.12	(2137 x 1994 x 613)	72.00 x 72.00	(1829 x 1829)
A90XM7824SSN4	90.12 x 78.50 x 24.12	(2289 x 1994 x 613)	78.00 x 72.00	(1981 x 1829)

**Standard Sizes Stainless Steel Three-Door Enclosures**

Enclosure Catalog Number	Enclosure Size A x B x C		Number ( ) and Size of Panels			
			* Large		* Small	
	inch	(millimeter)	inch	(mm)	inch	(mm)
A72XM3EQ18SSN4	72.12 x 100.75 x 18.12	(1832 x 2559 x 460)	(1) 60.00 x 60.00	(1524 x 1524)	and	(1) 60.00 x 27.75 (1524 x 705)
A72XM3EW18SSN4	72.12 x 118.75 x 18.12	(1832 x 3017 x 460)	(1) 60.00 x 72.00	(1524 x 1829)	and	(1) 60.00 x 33.75 (1524 x 857)
A84XM3EW18SSN4	84.12 x 118.75 x 18.12	(2137 x 3017 x 460)	(1) 72.00 x 72.00	(1829 x 1829)	and	(1) 72.00 x 33.75 (1829 x 857)
A84XM3EW24SSN4	84.12 x 118.75 x 24.12	(2137 x 3017 x 613)	(1) 72.00 x 72.00	(1829 x 1829)	and	(1) 72.00 x 33.75 (1829 x 857)
A90XM3EW24SSN4	90.12 x 118.75 x 24.12	(2289 x 3017 x 613)	(1) 78.00 x 72.00	(1981 x 1829)	and	(1) 78.00 x 33.75 (1981 x 857)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels are furnished with enclosure.

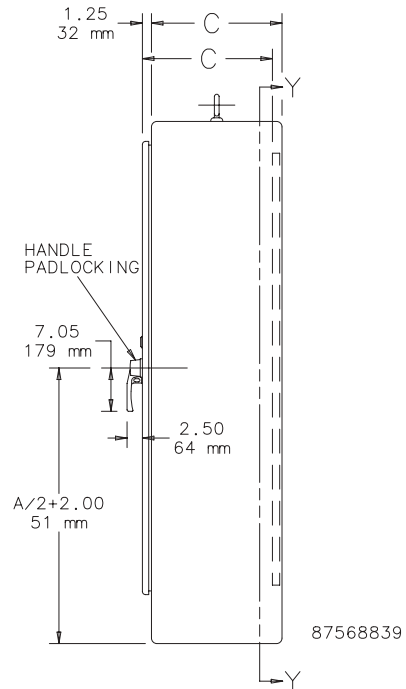
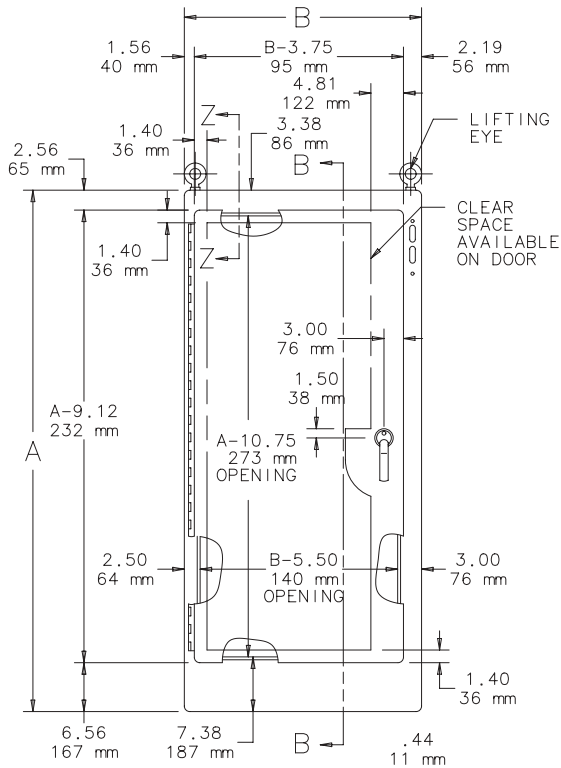


A Pentair Company

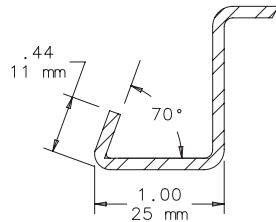
Rev. A June 2003

# Stainless Steel Heavy Duty Free-Standing Type 4X Enclosures for Flange-Mounted Disconnects

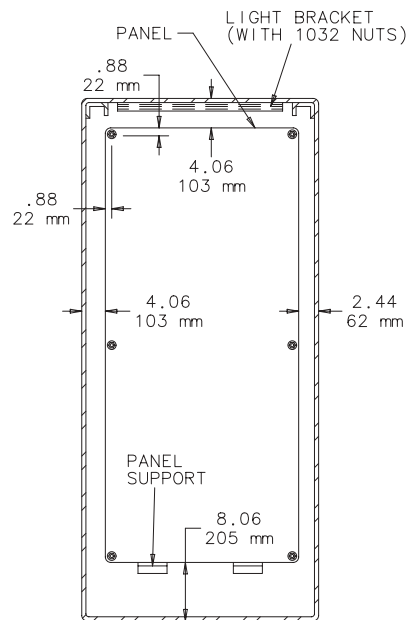
## Single-Door Enclosures



- NOTES: 1. 10 gauge steel panel is furnished with enclosures. See catalog number tables for size.  
2. Door has removable 12.00 x 12.00 in. (305 x 305mm) data pocket.



SECTION Z-Z



SECTION Y-Y



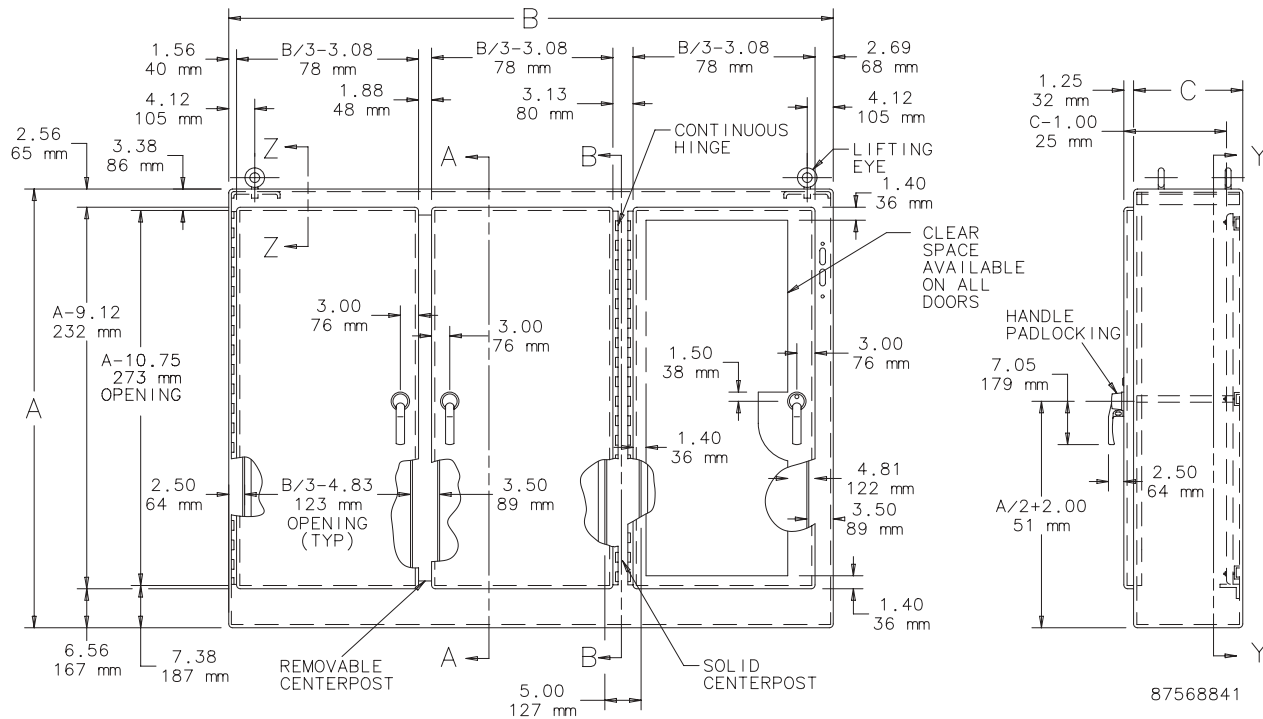


A Pentair Company

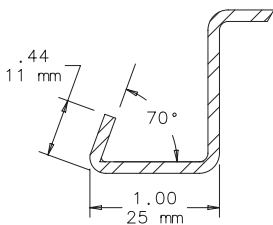
Rev. A June 2003

# Stainless Steel Heavy Duty Free-Standing Type 4X Enclosures for Flange-Mounted Disconnects

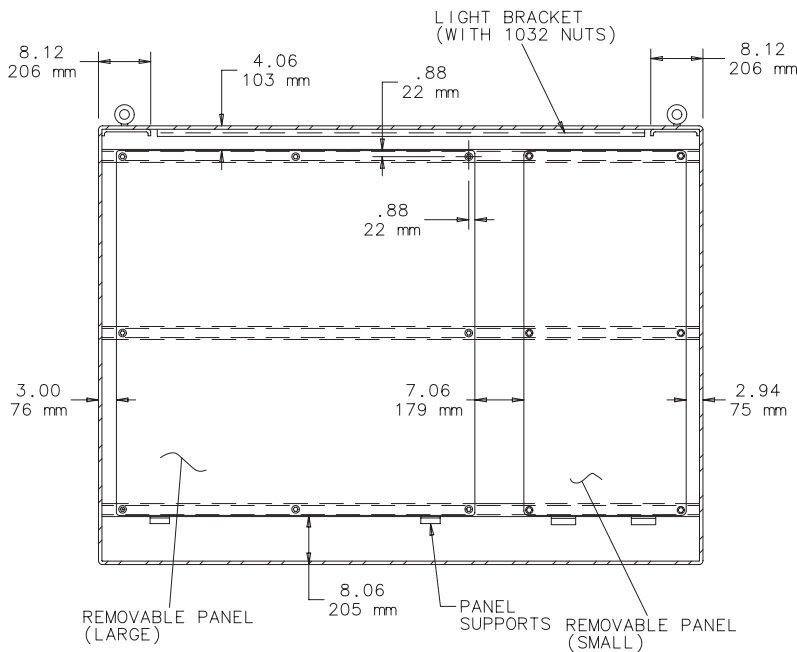
## Three-Door Enclosures



- NOTES:
1. Two 10 gauge steel panels are furnished with enclosure; see catalog number tables for sizes.
  2. Right door is master door. All doors hinged on left include a removable 12.00 x 12.00 in. (305 x 305mm) data pocket.

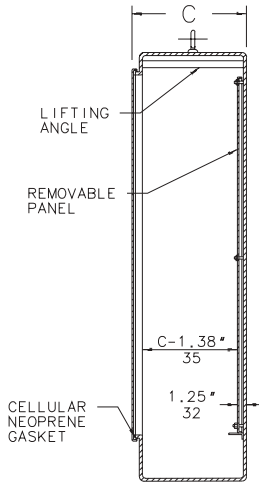


SECTION Z-Z



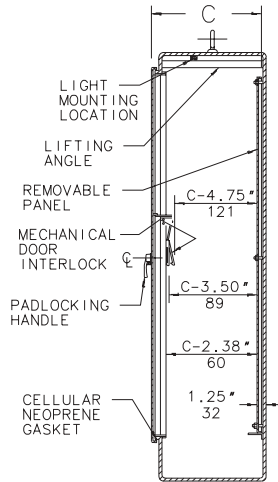
SECTION Y-Y

■ **Single-Door Enclosures**



SECTION B-B

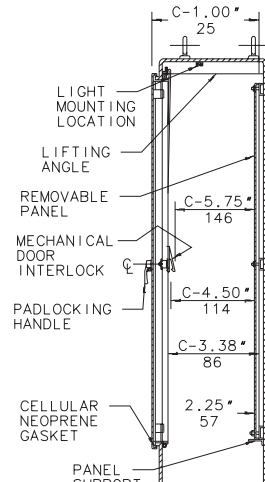
■ **Two-Door Enclosures**



SECTION A-A

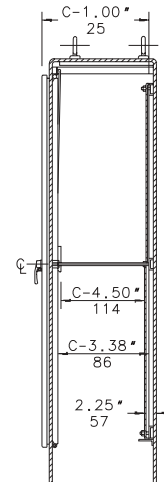
Space behind removable centerpost

■ **Three-Door Enclosures**



SECTION A-A

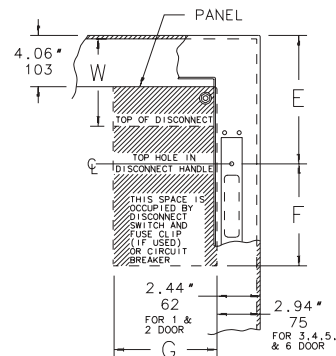
Space behind removable centerpost



SECTION B-B

Space behind solid centerpost

Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for F1, G1, and W1 dimensions of various brands of disconnects.



11C59198

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

- ◆ ABB Controls flange-operated devices
- ◆ Cutler-Hammer C361 devices
- ◆ Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see next paragraph for option)
- ◆ General Electric Type TDA devices (see next paragraph for option)
- ◆ Square D Class 9422 devices (see next paragraph for option)

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

- ◆ For 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 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.

**Space Occupied by Disconnects**

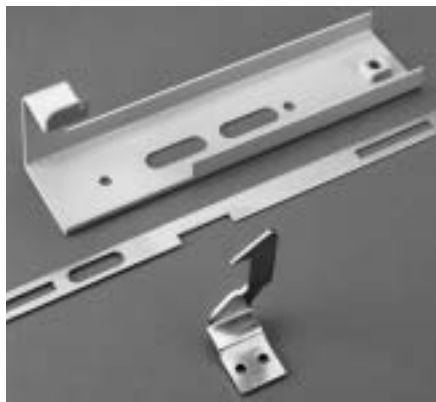
Disconnects will occupy space on panel shown by dimensions E1, F, and G1. Wiring space W1 is available when disconnect is installed in the enclosure.

See the Technical Information section of this catalog for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

Refer to **National Electrical Code® 2002** 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.**

# Disconnect Enclosure Accessories



APCABVA Operator Adapter

## Operator Adapters

Used on all Hoffman disconnect enclosures with preferred cutout for disconnect.

An operator adapter is required to install a disconnect in bulletins A21S and A28S Hoffman enclosures that have a preferred cutout. Operator adapters include components needed to interlock the master door with the disconnect operating mechanism. Panel drilling and installation instructions are furnished with each operator adapter.

Each brand and type of disconnect requires a different operator adapter. Be sure to select the proper operator adapter and enclosure for the disconnect that you have selected.

### Product Selection Operator Adapters for Preferred Cutouts

Adapter Catalog Number	Brand and Type of Operator
APCABVA	Allen-Bradley 1494V
APCCHVA	Cutler-Hammer C361, C371 and C371 Flex Shaft™
APCGETDA	General Electric STDA
APCITE	Siemens ITE Max-Flex™
APCSDA	Square D Class 9422 (variable depth and cable mechanism)



## Blank Adapter Plate

Used to cover flange cutouts in disconnect enclosures when disconnects are not installed.

Hoffman adapter plates are made from heavy gauge Type 304 stainless steel and have an oil-resistant gasket to maintain the dust-tight and oil-tight qualities of the enclosure. The plates have a #4 brushed finish. All necessary mounting hardware and instructions are included.

### Product Selection Blank Adapter Plate

Catalog Number	For Enclosure Bulletin Number
A2128BAPSS	A19S, CWS, A21S, and A28S with preferred cutouts

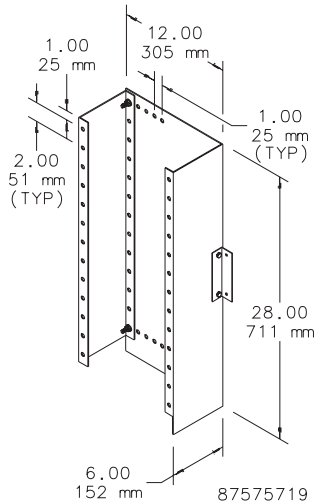


**Enclosure Stabilizers**

Prevents injury to workers by stabilizing floor-mounted enclosures that are not bolted down. To install, slip the stabilizer under the floor stand and tighten two thumb screws. Made from .19-inch (5mm) steel plate. Bright orange finish.

**Product Selection Enclosure Stabilizers**

Catalog Number	Description
AENST	Two stabilizers



**Platform Assembly**

The Platform Assembly is a 6.00 in. (152mm) high spacer that is required with all 24.12 in. (613mm) and deeper disconnect enclosures when short connecting rods are used with the following disconnect models.

- ◆ ABB Controls flange-operated devices
- ◆ Cutler-Hammer C361 devices
- ◆ Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see next paragraph for option)
- ◆ General Electric Type TDA devices (see next paragraph for option)
- ◆ Square D Class 9422 devices (see next paragraph for option)

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

- ◆ For 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 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.

Catalog Number	Description
ADSCPA	Set of 4 rods and mounting hardware



# CONCEPT® Stainless Steel Console



## Application

Designed to house electrical and electronic controls, instruments, and components. Heavy duty construction provides protection from dust, dirt, oil, and water. Pushbuttons, pilot lights, meters, switches, etc. can be mounted on the sloping control panel. Interior components can be mounted on stationary panels located on sides and back of enclosure.

## Construction Configured Assembly

- 14 gauge Type 304 stainless steel one-piece construction
- All seams continuously welded and ground smooth
- Ergonomically designed for sitting or standing operation (lower profile allows operator unrestricted view of control process)
- Solid bottom
- 20° slope top cover for 38.00-inch (965mm) tall console or 30° top cover for 48.00-inch (1219mm) console
- Quarter-turn stainless steel latches hold top cover securely closed
- Stops hold top cover open at 90°
- Integral water-shedding trough
- Optional back panel mounted on collar studs
- Optional side panels (mounted to collar studs) expand equipment mounting space
- Tool-to-open 3-point latch on front access door; door is removable and reversible; 170° full-access opening
- Seamless foam-in-place gasket provides a watertight and dust-tight seal
- Grounding stud on body
- Bonding provision on door
- Provision for data pocket on lower front door. See table for size.

## Finish

Enclosures are unpainted. Sides, top, and back have smooth #4 brushed finish.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
 NEMA Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Data Pocket
- Door Stop Kit
- Handles and Latches
- Key Inserts
- Panels
- Rack Angles
- Thermal Accessories

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

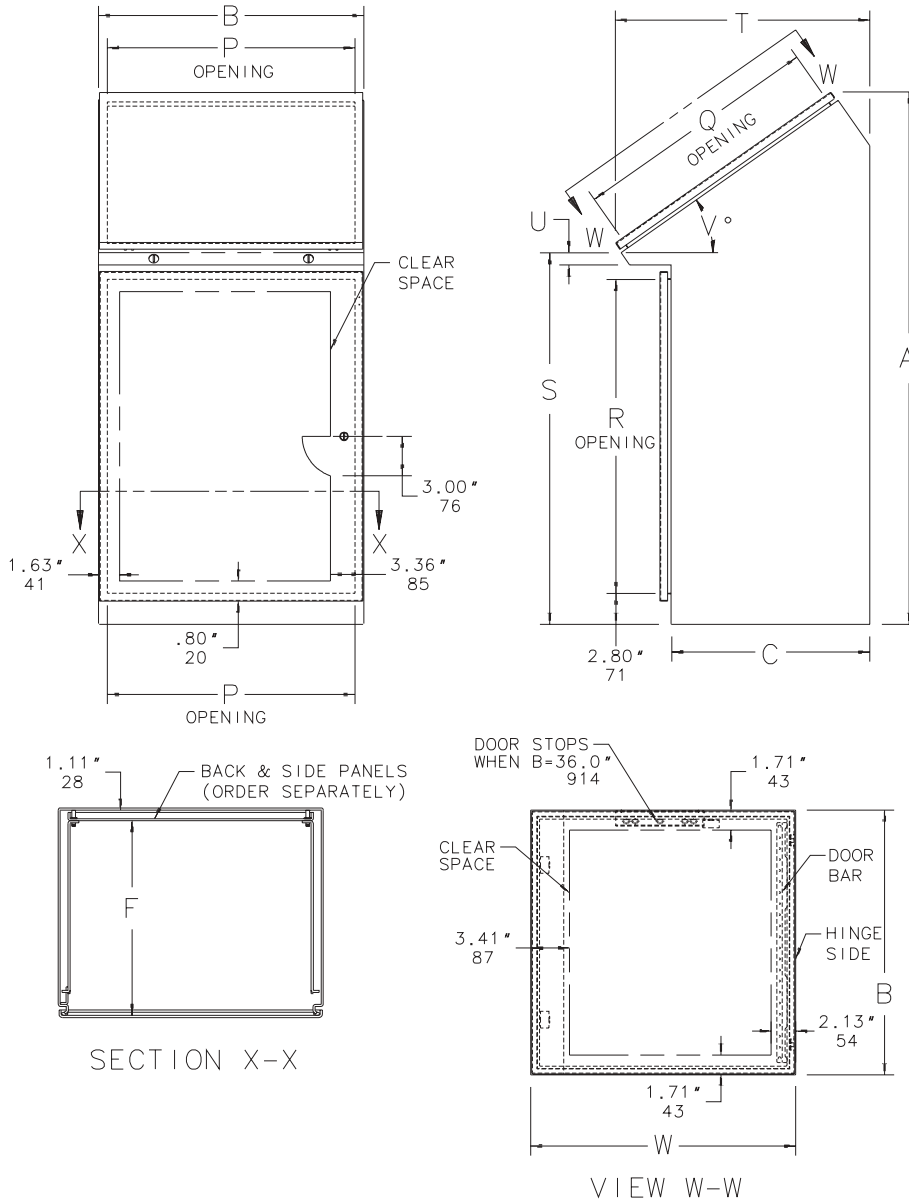
## Standard Sizes CONCEPT® Stainless Steel Console

Catalog Number	Back Panel	Catalog Number*	Back Panel Height x Width	F	P	Q	R	S	T	U	V	W	Data Pocket**
	A x B x C												
CFC382416SS	38.00 x 24.00 x 15.00 (965 x 610 x 381)	CP3624	34.20 x 22.20 (869 x 564)	14.57 (370)	22.40 (569)	18.40 (467)	22.37 (568)	30.44 (773)	19.82 (503)	3.79 (96)	20°	20.00 (508)	Small
CFC383616SS	38.00 x 36.00 x 15.00 (965 x 914 x 381)	CP3636	34.20 x 34.20 (869 x 869)	14.57 (370)	34.40 (874)	18.40 (467)	22.37 (568)	30.44 (773)	19.82 (503)	3.79 (96)	20°	20.00 (508)	Large
CFC482423SS	48.00 x 24.00 x 18.00 (1219 x 610 x 457)	CP2442	40.20 x 22.20 (1021 x 564)	17.57 (446)	22.40 (569)	23.36 (593)	28.35 (720)	35.35 (898)	23.84 (606)	2.54 (64)	30°	24.00 (610)	Large
CFC483623SS	48.00 x 36.00 x 18.00 (1219 x 914 x 457)	CP4236	40.20 x 34.20 (1021 x 869)	17.57 (446)	34.40 (874)	23.36 (593)	28.35 (720)	35.35 (898)	23.84 (606)	2.54 (64)	30°	24.00 (610)	Large

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Back panel must be ordered separately.

\*\* Data Pocket must be ordered separately. See Chapter 12, General Accessories.



Catalog Number	Description
AC4M6SV	Caster kit, swivel (2 casters per kit)•
AC4M6ST	Caster kit, stationary (2 casters per kit)•
CCPK15	Caster plate kit, 15-inch (2 plates per kit)
CCPK18	Caster plate kit, 18-inch (2 plates per kit)

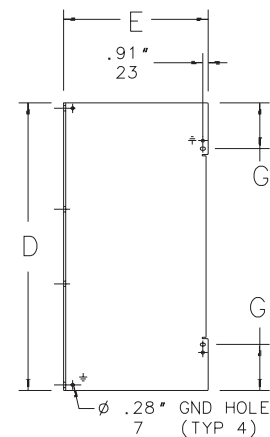
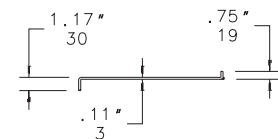
•Order two swivel caster kits or one swivel caster kit plus one stationary caster kit.

**Standard Sizes Side Panels**

Catalog Number	D	E	G
CPC3816	27.15 (690)	13.65 (347)	4.33 (110)
CPC4823	31.57 (802)	16.65 (423)	3.54 (40)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

NOTE: One panel per kit. Two kits required if a panel is needed on each side.



C2800



# APX-FC Free-Standing Console



## Construction Configured Assembly

- Solid Type 304 stainless steel one-piece construction
- Side walls have permanently mounted 14 gauge stainless steel full panel stiffener for added rigidity
- All seams continuously welded and ground smooth
- Solid sides, top, and bottom
- All openings have outward flanges to divert liquids
- Interior sides have rails with hole patterns for full range of APX® rack, subpanel, or grid system equipment mounting
- Bottom interior has horizontal rails with hole patterns for subpanels, transformer rails, and other accessories
- 5° slope on top upper front
- Optional front and rear covers and doors
- Seamless foam-in-place gasket on all doors
- Front openings accept a variety of doors, covers, and stainless steel APX® accessory front options
- Exterior mounting for all cover and door options
- Full rear opening provides maximum mounting space and easy access to interior components
- Lower front and rear openings include mounting blocks for hinging doors on right or left side.
- Optional full or partial subpanel

## Finish

Stainless steel enclosures are unpainted. External surfaces have a smooth #4 brushed finish.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3R, Type 4, Type 4X, Type 12  
 NEMA Type 3R, Type 4, Type 4X, Type 12  
 CSA File No. LR42186: Type 4, Type 4X, and Type 12  
 IEC 60529, IP65  
 Meets Type 3RX requirements

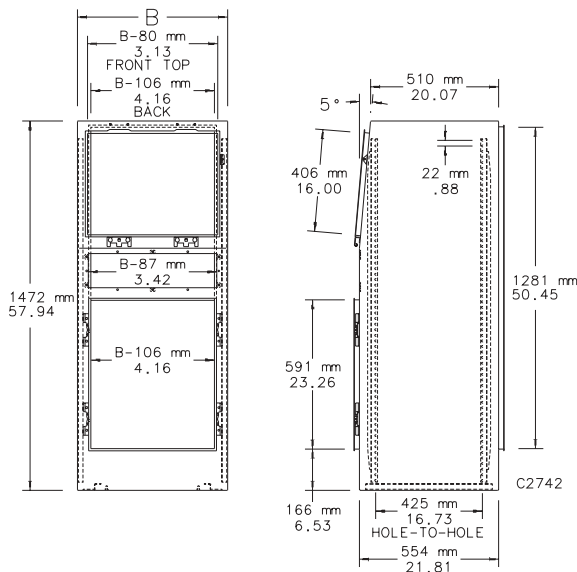
## Accessories

See Chapter 12, General Accessories.

- Accessory Front Options
- Casters
- Covers
- Data Pocket
- Doors
- Grid Straps and Fasteners
- Handle Kit
- Handles and Latches
- Key Inserts
- 180° Hinge Kit
- Panels
- Rack Angles

## Application

The APX-FC is an alternative for applications requiring a single console unit. The console is configured around a single-piece, free-standing console unit with a 5-degree sloped top. Front and back covers and doors are added to complete the configuration. Each free-standing unit has an accessory front for options such as keyboards, control compartments, or writing surfaces. Full rear opening provides maximum mounting space and easy access to interior of console. Full or partial subpanels can be used for mounting equipment. Also accommodates 19-inch rack mounting with rack angles.



## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Doors
- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Standard accessories
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

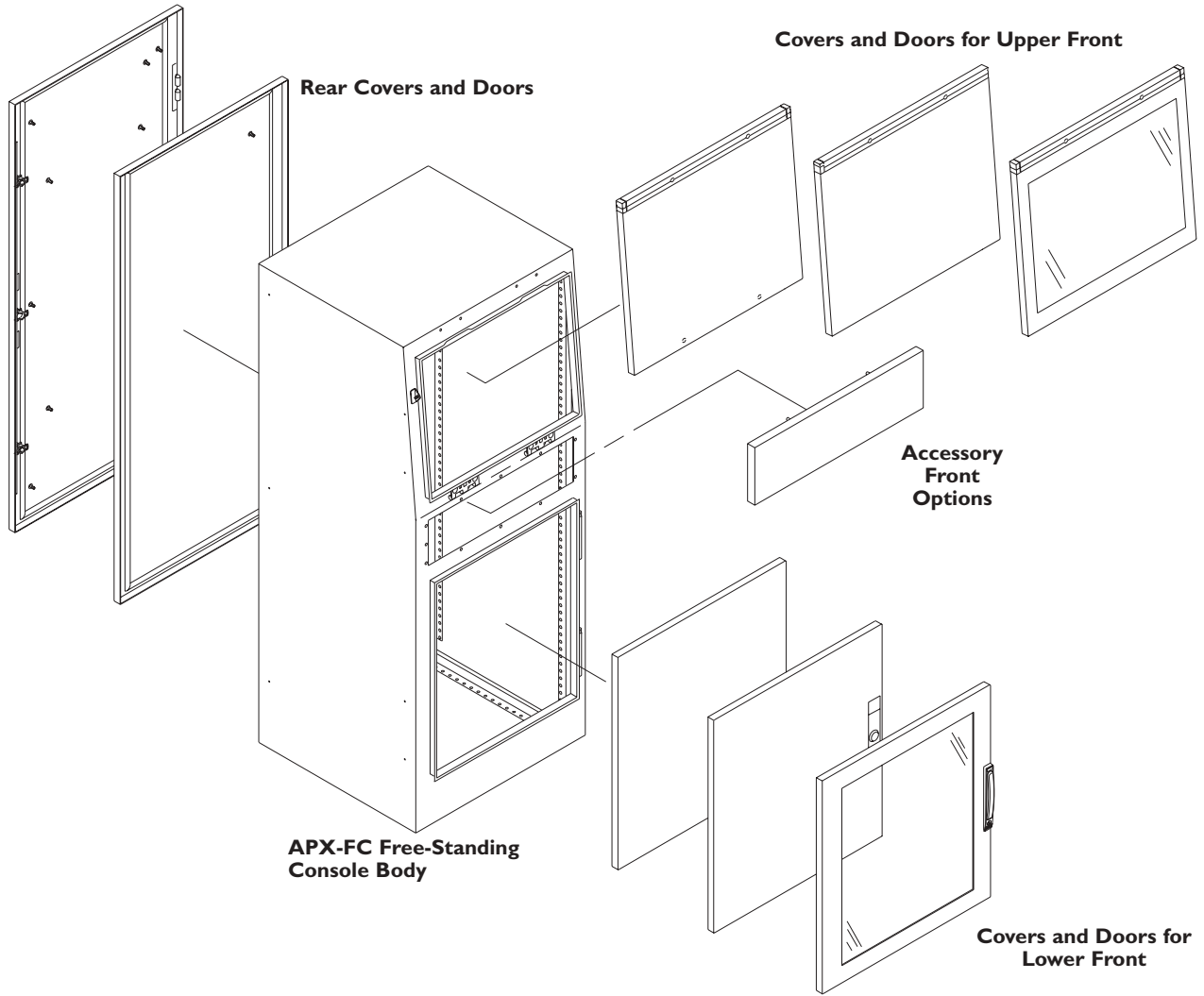
Catalog Number	Nominal -metric- A x B x C	B
XFC1466SS	1400 x 600 x 600	23.53 (597.7)
XFC1486SS	1400 x 800 x 600	31.40 (797.6)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

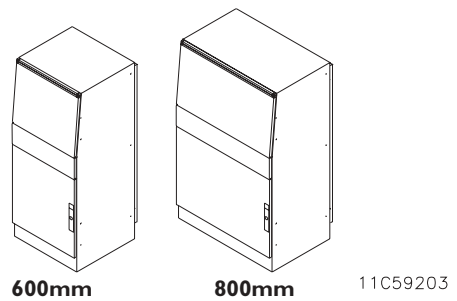


### APX-FC Components

APX® components are available to fit this enclosure package. See the following pages for complete descriptions, dimensional information, and catalog numbers for ordering.



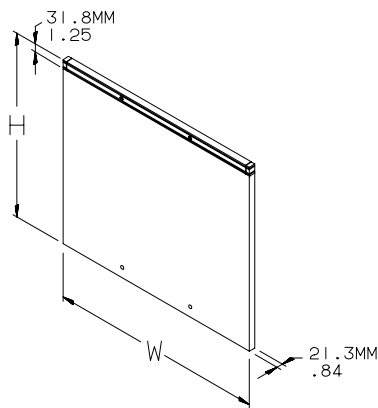
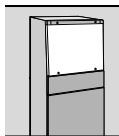
### Two Widths —



# APX-FC Free-Standing Console

## Covers for Upper Front

Front covers for the upper top opening are available solid, or with specific operator inter-face cutouts (see next page) 14 gauge steel Type 304 stainless steel construction. Cover has a smooth #4 brushed finish and four semi-flush cover screws. Seamless foam-in-place gasket assures watertight and dust-tight seal. Covers include bonding provision. All mounting hardware is furnished.



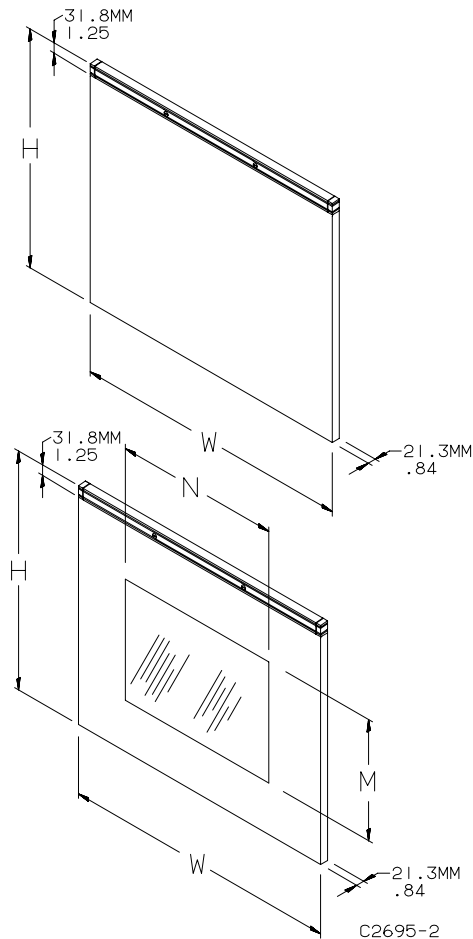
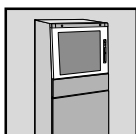
C2695-1

Catalog Number	H	W
XCS56FSS	19.96 (507.0)	23.30 (591.8)
XCS58FSS	19.96 (507.0)	31.16 (791.5)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

## Doors for Upper Front

Solid door or smoked glass window door for upper top opening is hinged at lower edge. Solid 14 gauge Type 304 stainless steel construction. Door has a smooth #4 brushed finish. Doors have two semi-flush screws and two quarter-turn latches along top edge. Mounting hardware and stop arm assembly to hold door at 95 degrees (horizontal) from closed position are included. Seamless foam-in-place gasket assures watertight and dust-tight seal. Windows are .25-inch-thick polycarbonate with a smoke gray tint. Bonding provision is provided.



C2695-2

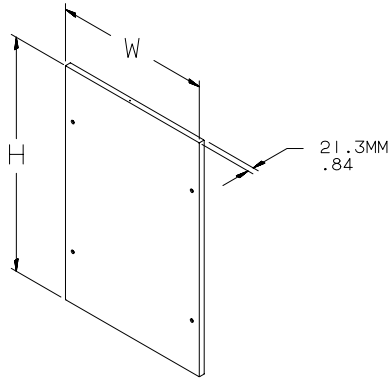
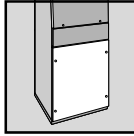
Catalog Number	Description	H	W
XDS56FSS	Stainless steel solid door	19.96 (507.0)	23.30 (591.8)
XDS58FSS	Stainless steel solid door	19.96 (507.0)	31.16 (791.5)

Catalog Number	Description	H	W	M	N
XDW56FSS	Stainless steel window door	19.96 (507.0)	23.30 (591.8)	12.44 (316.0)	16.89 (429.0)
XDW58FSS	Stainless steel window door	19.96 (507.0)	31.16 (791.5)	12.44 (316.0)	24.77 (629.2)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

**Covers for Lower Front**

Solid 14 gauge Type 304 stainless steel construction. Cover has a smooth #4 brushed finish. Seamless foam-in-place gasket assures watertight and dust-tight seal. Semi-flush cover screws attach cover to console front. A bonding provision is provided. Tamper-resistant screws are available.

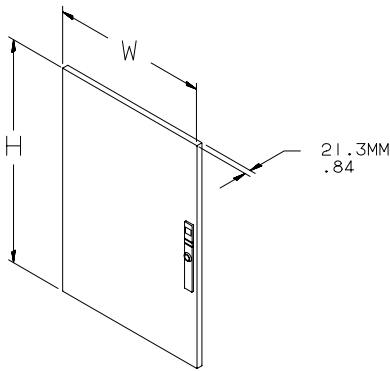
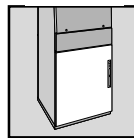


Catalog Number	H	W
XCS76SS	25.19 (639.8)	23.30 (591.8)
XCS78SS	25.19 (639.8)	31.16 (791.5)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

**Doors for Lower Front**

14 gauge Type 304 stainless steel construction with foam-in-place gasket. Doors can be hinged on right or left. Doors have a smooth #4 brushed finish. Doors have 10mm hex insert, 2-point latch, and provisions for a large data pocket. Hidden hinges attach to mounting blocks for 140-degree swing (180-degree hinge is available). Hinges have retained hinge pins.

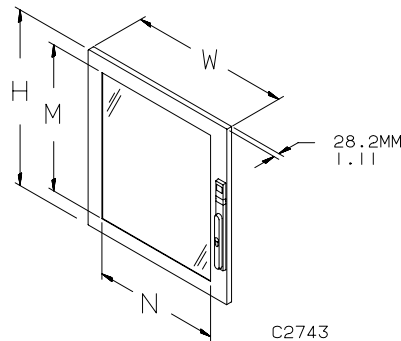
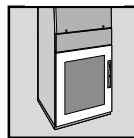


Catalog Number	H	W
XDS76SS	25.19 (639.8)	23.30 (591.8)
XDS78SS	25.19 (639.8)	31.16 (791.5)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

**Doors with Windows for Lower Front**

Door can be hinged on right or left side. Hinges have retained hinge pins. Window door has flush pushbutton handle with keylock and a polycarbonate window that is .25-inch thick with a smoke gray tint.



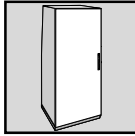
Catalog Number	H	W	M	N
XDW76SS	5.19 (639.8)	23.30 (591.8)	20.60 (523.2)	16.72 (424.7)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

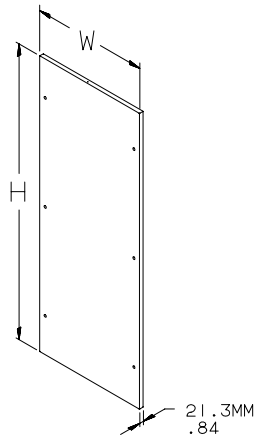
# APX-FC Free-Standing Console

## Covers and Doors for Console Rear

14 gauge Type 304 stainless steel construction. Covers and doors have a smooth #4 brushed finish. Foam-in-place gasket. Covers attach to console with semi-flush screws.



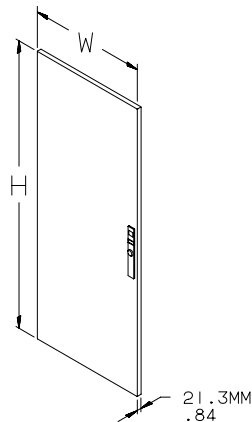
Doors can be hinged on left or right side. Doors have standard 10mm hex insert with a 3-point latch. Other handles or inserts are available. Doors have provision for a large data pocket.



Catalog Number	Description	H	W
X-CS136SS	Stainless steel cover	52.38 (1330.5)	23.30 (591.8)
X-CS138SS	Stainless steel cover	52.38 (1330.5)	31.16 (791.5)

### Accessories for Solid Single Doors include:

- |   |                      |
|---|----------------------|
| Flush Handles, keyed                      | XFHK or FFHKB        |
| Flush Handles, padlocking                 | XFHP or XFHPBL       |
| Flush Handles, diecast padlocking         | XFHPA or XFHPBLA     |
| Flush Handles, pushbutton keyed           | XFHKPB or XFHKPBB    |
| Flush Handles, pushbutton nonlock         | XFHNLPB or XFHKNLPBB |
| Flush Handles, doublebit keyed            | XFHDBK3 or XFHDBK3B  |
| Flush Handles, diecast keylock pushbutton | XFHKPBA or XFHKPBBA  |
| Key Insert, triangle                      | XKOTM7               |
| Key Insert, square                        | XKOTSM7              |
| Bezel/Hex Insert, gray                    | XFHBM10              |
| Bezel/Hex Insert, black                   | XFHBM10B             |
| Hex Insert Key                            | XKOHM10              |
| Keylocking "L" Handle, gray               | XLHK                 |
| Keylocking "L" Handle, black              | XLHKB                |
| Data Pocket                               | XDP2C                |
| 180° Hinge Kit                            | XH180                |



Catalog Number	Description	H	W
XDS136SS	Stainless steel door	52.38 (1330.5)	23.30 (591.8)
XDS138SS	Stainless steel door	52.38 (1330.5)	31.16 (791.5)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



### Accessory Front Options

A variety of keyboard compartments and shelves, control compartments, and writing surfaces is available. Each one is designed to fit into the accessory front opening of the APX-FC console. An access cover is available for applications not requiring a keyboard or controls. For more information on any of these options, see Chapter 12, General Accessories.

NOTE: Keyboard compartments meet Type 12 requirements only.

Access Covers	Description	Fits
XCSA6SS	Stainless steel	600
XCSA8SS	Stainless steel	800

Writing Desks	Description	Fits
XWD6SS	Stainless steel	600
XWD8SS	Stainless steel	800

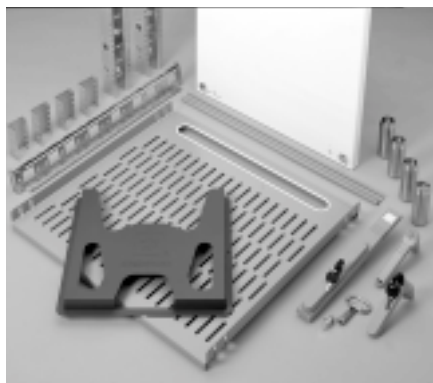
45° Control Compartments	Description	Fits
XC45A6SS	Stainless steel	600
XC45A8SS	Stainless steel	800

Consolet Compartments	Description	Fits
XCDS6SS	Stainless steel	600
XCDS8SS	Stainless steel	800

20° Control Compartments	Description	Fits
XC20A6SS	Stainless steel	600
XC20A8SS	Stainless steel	800

Keyboard Compartment	Description	Fits
XKBC6B	Steel, black	600

Keyboard compartment meets Type 12 requirements only.



### Internal and External Accessories

Numerous accessories are available for mounting equipment inside an APX-FC console. These include panels, shelves, and rack mounting accessories. There are also external accessories such as door handles and base options. A summary list follows. For more detailed information on each of these products see [hoffmanonline.com](http://hoffmanonline.com).

- Full Subpanel
- Partial Subpanel
- Side-Mounting Kit for Subpanels
- Swing-Out Panel Mounting Kit
- Frame Shelves
- Frame Brackets
- Center Upright
- Grounding Bar System
- Grid System
- Rack Angles
- Accessories for Rack Angles
- Base Accessories
- Door Accessories
- Casters



# APX-FC Free-Standing Console Selection Matrix



## Component Selection Matrix Front and Rear Options

APX-FC Console			Front Options		
A	B	C	Upper Front Cover	Upper Front Solid Door	Upper Front Window Door
1400	600	600	XCS56FSS	XDS56FSS	XDW56FSS
1400	800	600	XCS58FSS	XDS58FSS	XDW58FSS

APX-FC Console			Accessory Front Options		
A	B	C	Access Cover	45° Compartment	Writing Desk
1400	600	600	XCSA6SS	XC45A6SS	XWD6SS
1400	800	600	XCSA8SS	XC45A8SS	XWD8SS

APX-FC Console			Rear Options	
A	B	C	Rear Cover	Rear Door
1400	600	600	XCS136SS	XDS136SS
1400	800	600	XCS138SS	XDS138SS



## Component Selection Matrix External and Internal Accessories

APX-FC Console			External Accessories	
A	B	C	Solid Base, 100mm	Base Stabilizer
1400	600	600	XB166SS	XBS6SS
1400	800	600	XB186SS	XBS8SS

APX-FC Console			Internal Accessories					
A	B	C	(Front) Full Subpanels	(Back) Full Subpanels	Partial Subpanels	Subpanel Mounting Kit	Swing-Out Panel Kit	Grid System <sup>g</sup>
1400	600	600	XPF76	XPF146	XPP_6 <sup>e</sup>	XMKPF or XMKP <sup>a</sup>	XSP6	XGH_S6 and XGH6P6
1400	800	600	XPF78	XPF148	XPP_8 <sup>f</sup>	XMKPF or XMKP <sup>a</sup>	XSP8	XGH_S6 and XGH6P8

<sup>a</sup> For mounting appropriate 600mm wide subpanel (either partial or full height) on side.

<sup>b</sup> Fits when grid straps are installed.

<sup>c</sup> Also XSP88, XSP88LR, and XSP88C fit rear opening only.

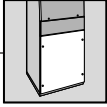
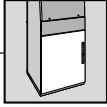

<sup>d</sup> Fits 45° control compartment, 20° control compartment, and console compartment.

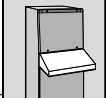
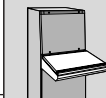

<sup>e</sup> Accommodates XPP46, XPP86, XPP96, XPP106, XPP116.

<sup>f</sup> Accommodates XPP48, XPP88, XPP98, XPP108.


<sup>g</sup> Order fastener package XGFM6.

Component Selection Matrix Front and Rear Options

				
<b>Lower Front Cover</b>	<b>Lower Front Door</b>	<b>APX-FC Console</b>		
		<b>A</b>	<b>B</b>	<b>C</b>
XCS76SS	XDS76SS	1400	600	600
XCS78SS	XDS78SS	1400	800	600

					
<b>20° Control Compartment</b>	<b>Consolet Compartment</b>	<b>Keyboard Compartment</b>			
			<b>A</b>	<b>B</b>	<b>C</b>
XC20A6SS	XCDS6SS	XKBC6 or XKBC6B	1400	600	600
XC20A8SS	XCDS8SS		1400	800	600

Component Selection Matrix External and Internal Accessories

			<b>External Accessories</b>					
<b>Levelers</b>	<b>Casters</b>	<b>Handles</b>	<b>APX-FC Console</b>					
			<b>A</b>	<b>B</b>	<b>C</b>			
XLM10	XC1M10 or XC4M6	PUHK	1400	600	600			
XLM10	XC1M10 or XC4M6	PUHK	1400	800	600			

**Internal Accessories**

Grounding Bar System	Transformer Rails	Swing-Out Rack Frame	Frame Shelf	Frame Brackets	Printer Shelf	Pencil Tray <sup>d</sup>	A	B	C
XGS_K	XTR6	XSFP46 or XSFP48	XFSH64 <sup>b</sup> or XFSH66	XFB62U	XPSH66	XCPL6	1400	600	600
XGS_K	XTR6 or XTR8	XSFP48, -LR, -C <sup>c</sup>	XFSH84 <sup>b</sup> or XFSH86	XFB8T6 or XFB82U	XPSH86	XCPL8	1400	800	600

**Other Internal Accessories: Rack Angles**

XRA76TP	XRA76TH	XRA86TP	XRA86TH	XRA17TH
XRA1TH	XRA3TH	XRA6TH	XRA7TH	XRA9TH
XRA12TH	XRA13TH	XRA14TH		

Use frame brackets XFB8T6 to install these rack angles in 800mm wide consoles.

**Accessories for Rack Angles include:**

Drawers	A19DR2U and A19DR4U	Pull-Out Shelf	A19SHP6
Drawer Writing Surface	A19WDSR	Rack Panels	A19RP____ (23 models)
Guides	XSFG, AG1U5, and AG1U6	Screw Package	AS1032 or XSM5
Slides	A16SL2U	Clip Nut Package (Type "TH" only)	AN1032 or XNM5
Fixed Shelf	A19SH5 and A19SH6		

# PROLINE<sup>®</sup> Stainless Steel Operator Interface Enclosures

PROLINE<sup>®</sup> Stainless Steel Operator Interface Enclosures provide a comprehensive system for housing operator interface computers and related control devices in corrosive environments. With these enclosures you can develop a customized solution that meets your application's requirements exactly, including UL/CSA Type 4X protection.



**Sizes:** PROLINE<sup>®</sup> Stainless Steel Operator Interface Enclosures fit most popular operator interface models. The basic enclosure has an ergonomically sloped front that positions the screen for easy viewing.

**Accessories:** The front of the enclosure can be completed with a solid cover, solid door, or window door. A solid cover or access door can be selected for the back. Solid or cutout bases for pedestal mounting are available. Handle and locking options are offered for all doors.

Available with an additional front opening to accommodate several accessory front options.

**Equipment Mounting:** Grid straps, rack angles, and panels are available for all enclosure sizes. Large front and rear openings provide easy access.

**Enclosure Mounting:** The PROLINE<sup>®</sup> system includes a stainless steel pedestal with optional extension. The enclosure can also be placed on a table or other horizontal surface.

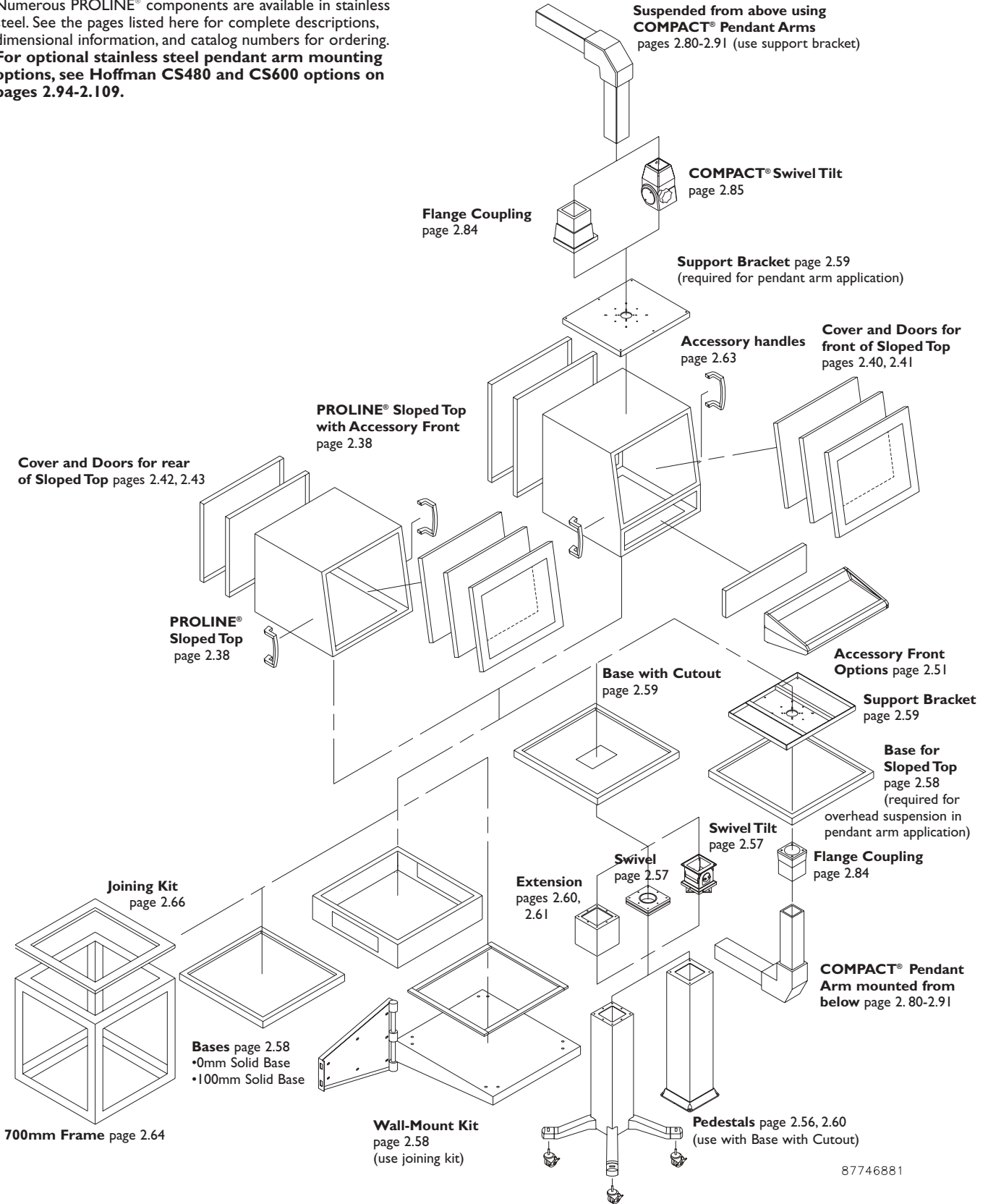
**Protection from the Harsh Environment:** PROLINE<sup>®</sup> Stainless Steel Operator Interface Enclosures meet tough UL and CSA Type 4X standards (IP 66). Enclosures are constructed of Type 304 stainless steel with stainless steel external hardware. Foam-in-place gasketing provides a tight, consistent seal.

**See PROLINE<sup>®</sup> Sloped Top OI Enclosures in Chapter 2 for more information and catalog order numbers.**



### PROLINE® Operator Interface Enclosure System

Numerous PROLINE® components are available in stainless steel. See the pages listed here for complete descriptions, dimensional information, and catalog numbers for ordering. For optional stainless steel pendant arm mounting options, see Hoffman CS480 and CS600 options on pages 2.94-2.109.



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# Stainless Steel PROLINE-PC Package



## PROLINE-PC Modular Enclosure

This enclosure offers effective protection for computer systems in industrial environments. Three sealed compartments within the enclosure can be used to protect computer monitors, keyboards, CPUs, printers, and other peripheral equipment.

The 19-inch diagonal top window door, hinged on the left, offers viewing access for a variety of monitor sizes and has a small flush swing handle with keylock for system security.

The vented frame shelf in the top compartment is constructed of 16 gauge steel and is finished with RAL 7035 textured light gray polyester powder paint.

The PROLINE® keyboard compartment includes a locking feature, an angled palm rest, a cable access port for wiring, and integral mouse pad holders for left-handed or right-handed persons.

The bottom compartment includes a solid door hinged on the left with a small flush swing handle with keylocking. This compartment can be used to install computer equipment, panel mounted equipment, or rack mounted control systems.

The frame is enclosed with solid sides, a solid top, and a 100mm solid base.

A rear mounted solid door with a keylocking flush swing handle offers rear access to the computer equipment and wiring.

**For more information, see PROLINE® Assembled Enclosures in Chapter 1.**

## Finish

External components have a smooth #4 brushed finish.

External doors, sides, top, and base are Type 304 stainless steel.

## Industry Standards

UL 508A, 508, File No. E61997: Type 12  
NEMA Type 12  
CSA File No. LR42186: Type 12  
IEC 60529, IP55  
VDE IP55

## Accessories

See Chapter 12, General Accessories.

Accessory Fronts  
Casters  
Covers  
Data Pocket  
Doors  
Grid Straps and Fasteners  
Handle Kit  
Handles and Latches  
Key Inserts  
180° Hinge Kit  
Panels  
Rack Angles

## Modification Services Program

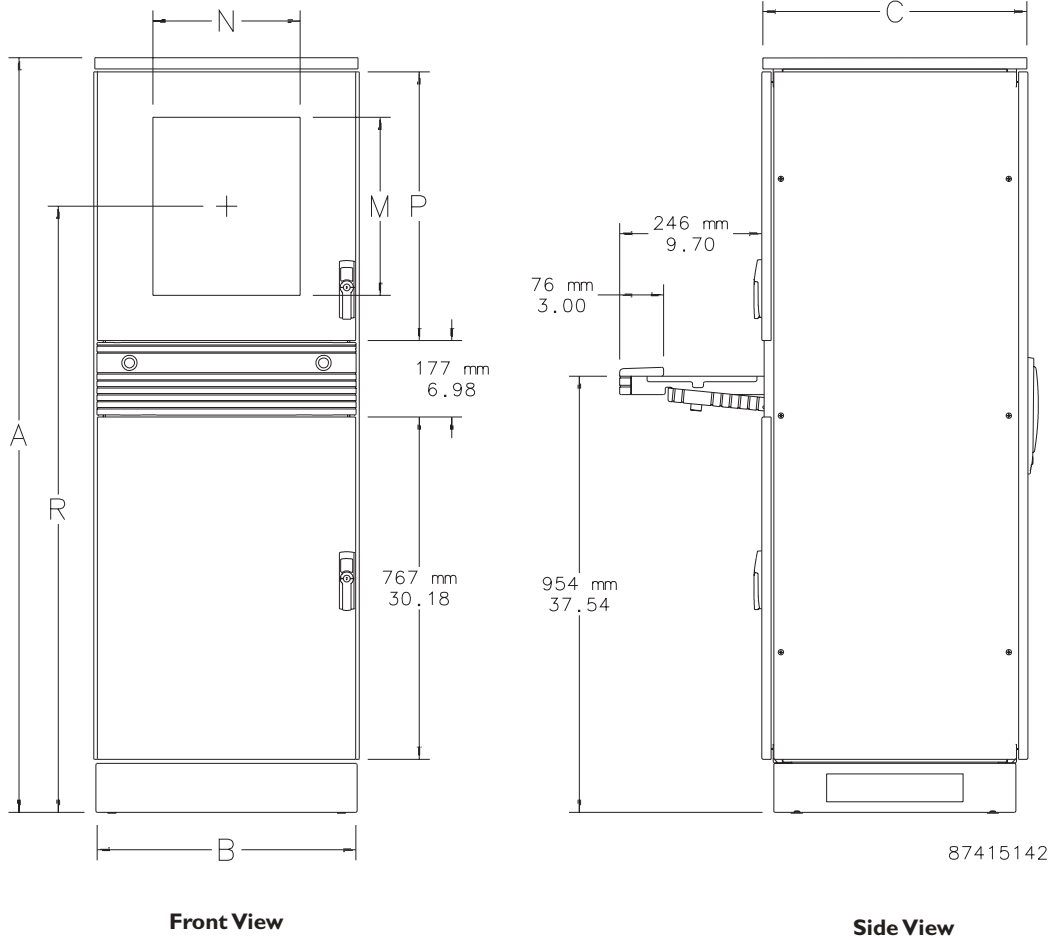
You can customize this product to your unique requirements by specifying from these options:

- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

**NOTE:** For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes PROLINE-PC Stainless Steel Modular Enclosures**

Catalog Number	A*	B	C	M	N	P	R	Top Door Opening		Bottom Door Opening	
								Height	Width	Height	Width
PPC1666SS	1688 (66.46)	608 (23.94)	599 (23.58)	343 (13.50)	365.8 (14.40)	585.7 (23.06)	1363 (53.66)	558.3 (21.98)	536.1 (21.11)	738.9 (29.09)	536.1 (21.11)

Inch dimensions in ( ).  
\* 100mm solid base is included in "A" dimension.



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# Stainless Steel PROLINE-PC Package

## Assembled Package

Catalog Number	Nominal Size A x B x C
PPC166SS	1688 x 608 x 599 (66.46 x 23.94 x 23.58)

Inch dimension in ( ).

## Summary of Components Included in Assembled PROLINE-PC Packages

Component	Qty.	Catalog Number
Frame, steel	1	PFPC1666
Solid top, stainless steel	1	PT66SS
Solid door (bottom), stainless steel	1	PDS86SS
Window door (top), stainless steel	1	PDWT86PCSS
Solid side, stainless steel	2	PSS166SS
Solid door (rear), stainless steel	1	PDS166SS
Solid base (100mm), stainless steel	1	PB166SS
Black painted keyboard compartment	1	PKBC6



## Additional Stainless Steel Components Available for PROLINE-PC Enclosure

Component	Catalog Number
Access cover	PCSA6SS
Window door (top)	PDWT86PCSS
Window door (bottom)	PDWG86SS
Solid cover (top)	PCST86PCSS
Solid cover (bottom)	PCS86SS
Solid door (top)	PDST86PCSS
Solid door (bottom)	PDS86SS
Consolet compartment (middle front)	PCDS6SS

**Standard Configuration**

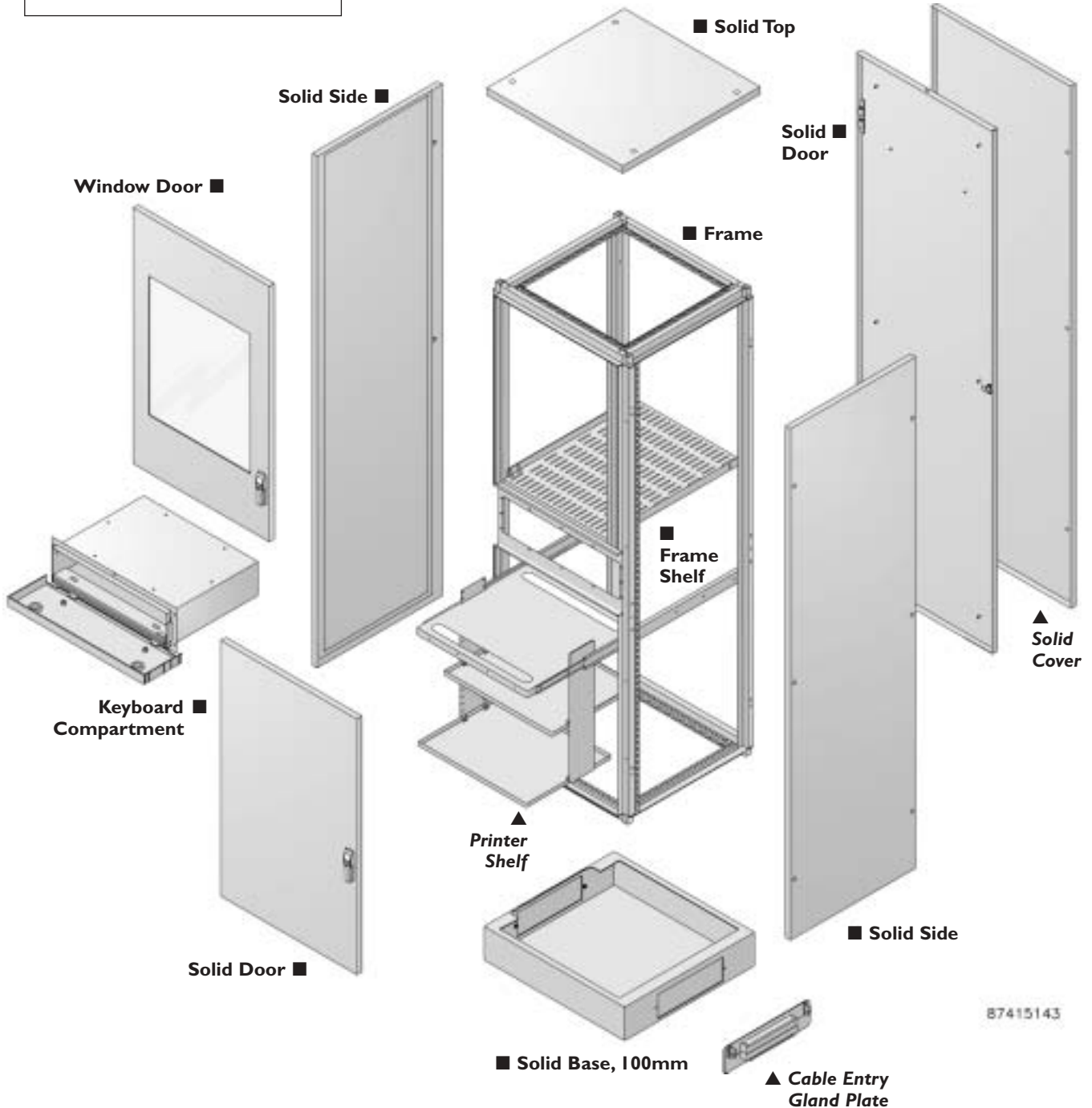
- Frame
- Frame Shelf, top compartment
- Keyboard Compartment
- Window Door, top front
- Solid Door, bottom front
- Solid Top
- Solid Base, 100mm
- Solid Door, rear
- Solid Sides

**Optional Components**

All optional components may be ordered separately. Components labeled  may be included in an  configuration.

NOTE:

PFPC \_\_\_\_ frames have three front openings for top, center, and bottom modular components.





# Stainless Steel PROLINE-SY Package



## PROLINE-SY Modular Enclosure

This enclosure is designed to protect many industrial operator interface systems. Two sealed compartments within the enclosure can be used to protect panel- or rack-mounted control systems, operator interface packages, and a variety of other electronic control components.

- The top compartment is open and can accommodate a variety of front cover and door options
- Internal grid straps are factory-installed in top compartment to provide support for operator interfaces
- The bottom door is hinged on the left and has an attractive keylocking flush swing handle
- The solid rear door permits rear access to equipment and wiring and includes a keylocking pushbutton handle
- Standard external components include solid sides, solid top, and a 100mm solid base

Order cover, door, or window door for top front to complete the enclosure. Solid covers with pre-fabricated operator interface cutouts are available; consult Hoffman for ordering information.

For more information, see **PROLINE® Assembled Enclosures in Chapter 1.**

## Finish

Stainless steel enclosures are unpainted. External components have a smooth #4 brushed finish.

External doors, sides, top, and base are Type 304 stainless steel.

## Industry Standards

UL 508A, 508, File No. E61997: Type 12  
 NEMA Type 12  
 CSA File No. LR42186: Type 12  
 IEC 60529, IP55  
 VDE IP55

## Accessories

See Chapter 12, General Accessories.

Casters  
 Covers  
 Data Pocket  
 Doors  
 Grid Straps and Fasteners  
 Handle Kit  
 Handles and Latches  
 Key Inserts  
 180° Hinge Kit  
 Panels  
 Rack Angles

## Modification Services Program

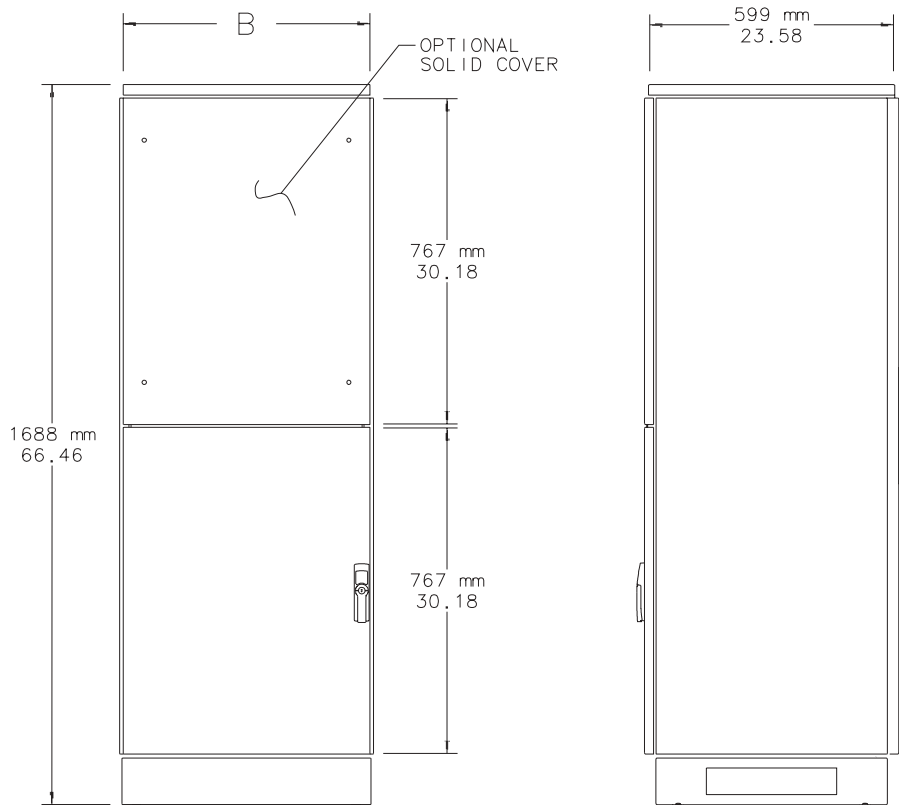
You can customize this product to your unique requirements by specifying from these options:

- Holes and cutouts in body, doors, subpanels
- Tapped holes in subpanels
- Fasteners, mounting channel in enclosure and subpanel
- Mounting (adds and deletes)
- Doors
- Subpanels
- Thermal management (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



Front View

Side View

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**Standard Sizes PROLINE-SY Modular Enclosures**

Catalog Number Stainless	A	B	C
PSY1666SS	1688 (66.46)	608 (23.94)	599 (23.58)

Inch dimensions in ( ).

NOTE:

Top and bottom door opening size:  
 29.09 x 21.11 (738.9 x 536.1) on 600mm wide  
 29.09 x 28.98 (738.9 x 736.1) on 800mm wide



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# Stainless Steel PROLINE-SY Package

## Assembled Package

Catalog Number	Nominal Size A x B x C
PSY1666SS	1688 x 608 x 599 (66.46 x 23.94 x 23.58)

Inch dimension in ( ).



## Summary of Components Included in Assembled PROLINE-SY Package

Component	Qty.	Catalog Number
Frame	1	PFSY1666
Solid top, stainless steel	1	PT66SS
Solid door (rear), stainless steel	1	PDS166SS
Solid door (bottom), stainless steel	1	PDS86SS
Solid base (100mm), stainless steel	1	PB066SS
Solid side, stainless steel	2	PSS166SS
Flush pushbutton handle (keylock)	1	PFHKBL
Small flush swing handle	1	PSHKBL
Grid system strap	1	PGH3S7
Grid system strap	1	PGH3S6

## Additional Stainless Steel Components Available for PROLINE-SY Enclosure

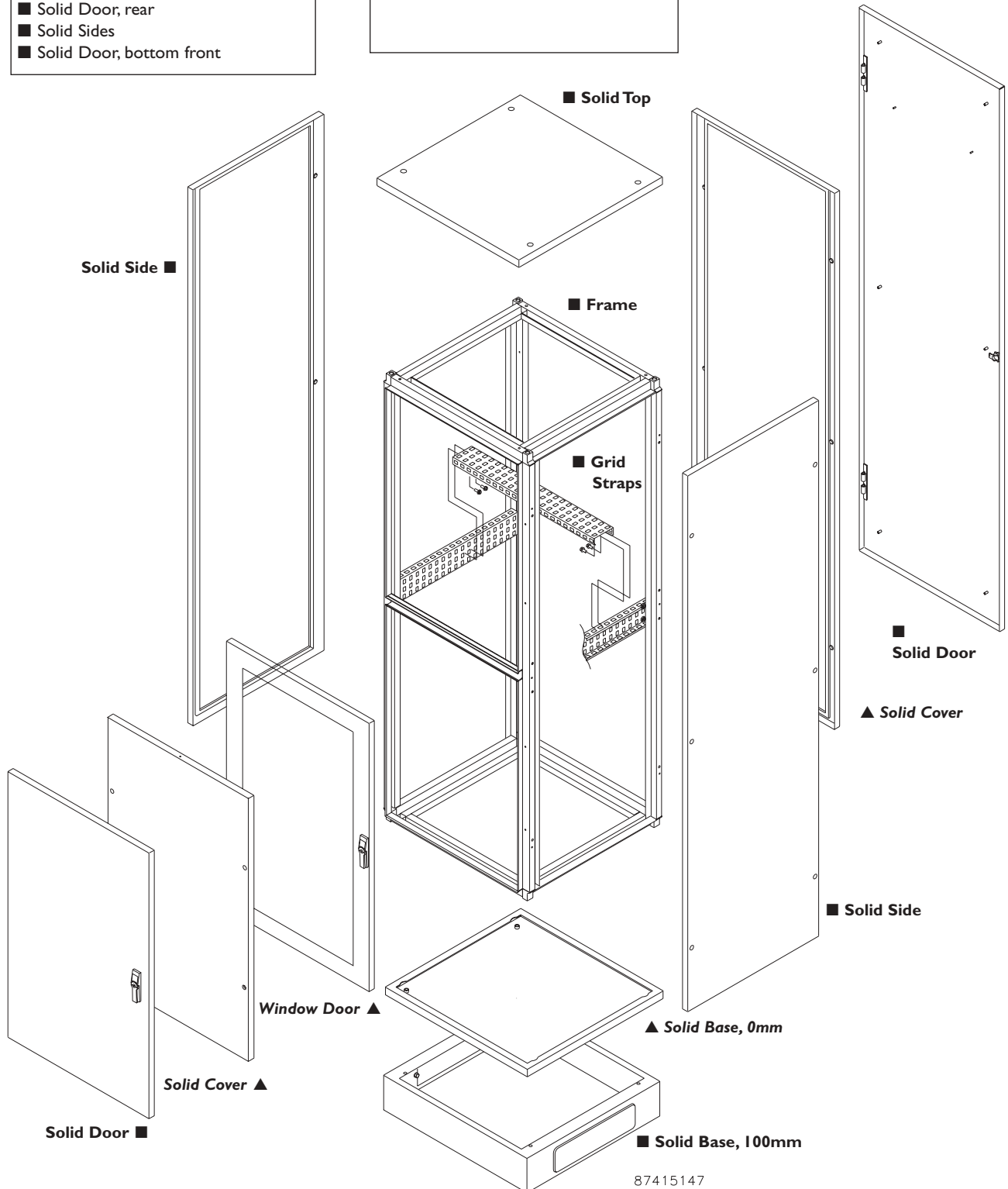
Component	Catalog Number
Solid doors (top/bottom)	PDS86SS
Window doors (top/bottom)	PDWG86SS
Solid covers	PCS86SS
Solid covers with OI cutouts	PCSK4

- Standard Configuration**
- Frame
  - Grid Straps (top compartment)
  - Solid Top
  - Solid Base, 100mm
  - Solid Door, rear
  - Solid Sides
  - Solid Door, bottom front

- Optional Components**
- All optional components may be ordered separately. Components labeled  may be included in an  configuration.

**NOTE:**

PFSY \_\_\_\_ frames have two front openings for top and bottom modular components.



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Rev. A October 2004

# COMPACT® Aluminum Type 4X Enclosures



## Construction

- Cast aluminum; no welded seams or sharp corners
- Captivated cover screws are stainless steel
- Cover screws placed outside sealed area
- Two to four grounding screws located on enclosure back wall
- Oil-resistant O-ring gasket with tongue-and-groove construction
- Threaded internal bosses provided for mounting optional panels, rails, and other components
- Mounting holes provided in corners outside of gasketed area

## Finish

RAL 7042 gray finish inside and out. Optional panel is unpainted zinc-plated steel.

## Industry Standards

UL 508A, 508, File No. E61997: Type 4, Type 4X, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, Type 12, and Type 13  
CSA File No. LR42186: Type 4, Type 4X, Type 12, and Type 13  
IEC 60529, IP66

## Accessories

DIN Type Rails  
Hinge Kit  
Mounting Bracket Kit  
Panels

## Application

Designed as an instrument housing or junction box for electrical, electronic, or pneumatic components in indoor and outdoor applications. Aluminum is particularly durable and well-suited for use in areas where corrosion problems exist.



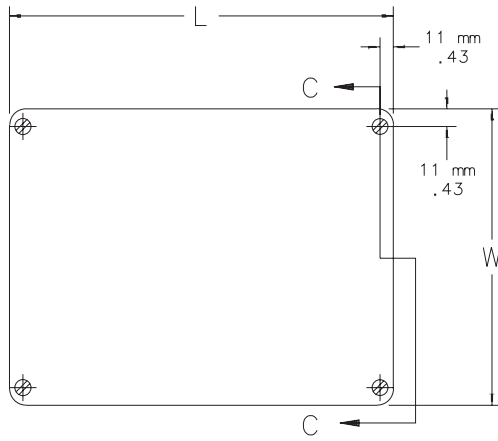
## Standard Sizes COMPACT® Aluminum Type 4X Enclosures

Enclosure Catalog Number	External Dimensions L x W	Internal Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	F	J	K	M	N	T
CCA886 <sup>a</sup>	74.9 x 80.0 (2.95 x 3.15)	67.1 x 71.9 x 47.0 (2.64 x 2.83 x 1.85)	CCAP88	64.0 x 69.1 (2.52 x 2.72)	52.1 x 63.0 (2.05 x 2.48)	41.4 (1.63)	40.9 (1.61)	13.0 (0.51)	30.0 (1.18)	48.0 (1.89)	3.6 (0.14)
CCA1286 <sup>a</sup>	125.0 x 80.0 (4.92 x 3.15)	116.1 x 71.1 x 51.1 (4.57 x 2.80 x 2.01)	CCAP128	114.0 x 69.1 (4.49 x 2.72)	52.1 x 113.0 (2.05 x 4.45)	45.0 (1.77)	41.9 (1.65)	15.0 (0.59)	30.0 (1.18)	48.0 (1.89)	3.6 (0.14)
CCA1886 <sup>a</sup>	175.0 x 80.0 (6.89 x 3.15)	166.9 x 71.9 x 47.0 (6.57 x 2.83 x 1.85)	CCAP188	164.1 x 69.1 (6.46 x 2.72)	52.1 x 163.1 (2.05 x 6.42)	41.4 (1.63)	40.9 (1.61)	13.0 (0.51)	30.0 (1.18)	48.0 (1.89)	3.6 (0.14)
CCA12128	121.9 x 121.9 (4.80 x 4.80)	111.5 x 111.5 x 71.9 (4.39 x 4.39 x 2.83)	CCAP1212	109.0 x 108.2 (4.29 x 4.26)	82.0 x 105.9 (3.23 x 4.17)	63.0 (2.48)	59.9 (2.36)	20.1 (0.79)	52.1 (2.05)	—	4.1 (0.16)
CCA22128	220.0 x 121.9 (8.66 x 4.80)	209.5 x 111.5 x 71.9 (8.25 x 4.39 x 2.83)	CCAP2212	204.2 x 108.2 (8.04 x 4.26)	82.0 x 204.0 (3.23 x 8.03)	63.0 (2.48)	59.9 (2.36)	20.1 (0.79)	52.1 (2.05)	—	4.1 (0.16)
CCA16169	160.0 x 160.0 (6.30 x 6.30)	149.1 x 149.1 x 82.0 (5.87 x 5.87 x 3.23)	CCAP1616	146.0 x 146.0 (5.75 x 5.75)	110.0 x 140.0 (4.33 x 5.51)	72.9 (2.87)	70.1 (2.76)	20.1 (0.79)	75.9 (2.99)	—	4.1 (0.16)
CCA26169	259.8 x 160.0 (10.23 x 6.30)	248.9 x 149.1 x 82.0 (9.80 x 5.87 x 3.23)	CCAP2616	246.1 x 146.0 (9.69 x 5.75)	110.0 x 240.0 (4.33 x 9.45)	72.9 (2.87)	70.1 (2.76)	20.1 (0.79)	75.9 (2.99)	—	4.1 (0.16)
CCA36169	359.9 x 160.0 (14.17 x 6.30)	349.0 x 149.1 x 82.0 (13.74 x 5.87 x 3.23)	CCAP3616	346.2 x 146.0 (13.63 x 5.75)	110.0 x 340.1 (4.33 x 13.39)	72.9 (2.87)	70.1 (2.76)	20.1 (0.79)	75.9 (2.99)	—	4.1 (0.16)
CCA202311	199.9 x 230.1 (7.87 x 9.06)	188.5 x 218.4 x 102.6 (7.42 x 8.60 x 4.04)	CCAP2023	185.2 x 215.1 (7.29 x 8.47)	180.1 x 180.1 (7.09 x 7.09)	93.0 (3.66)	89.9 (3.54)	20.1 (0.79)	80.0 (3.15)	144.0 (5.67)	4.1 (0.16)
CCA332311	329.9 x 230.1 (12.99 x 9.06)	318.5 x 218.4 x 102.1 (12.54 x 8.60 x 4.02)	CCAP3323	315.2 x 215.1 (12.41 x 8.47)	180.1 x 309.9 (7.09 x 12.20)	93.0 (3.66)	89.9 (3.54)	20.1 (0.79)	80.0 (3.15)	144.0 (5.67)	4.1 (0.16)
CCA332318	329.9 x 230.1 (12.99 x 9.06)	319.0 x 218.9 x 172.0 (12.56 x 8.62 x 6.77)	CCAP3323	315.2 x 215.1 (12.41 x 8.47)	180.1 x 309.9 (7.09 x 12.20)	162.1 (6.38)	160.0 (6.30)	20.1 (0.79)	100.1 (3.94)	144.0 (5.67)	4.1 (0.16)

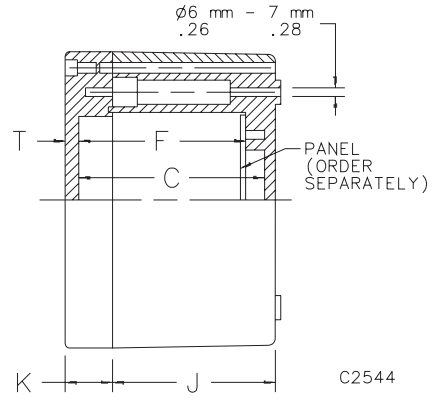
Inch dimensions in ( ).

\* Panels must be ordered separately.

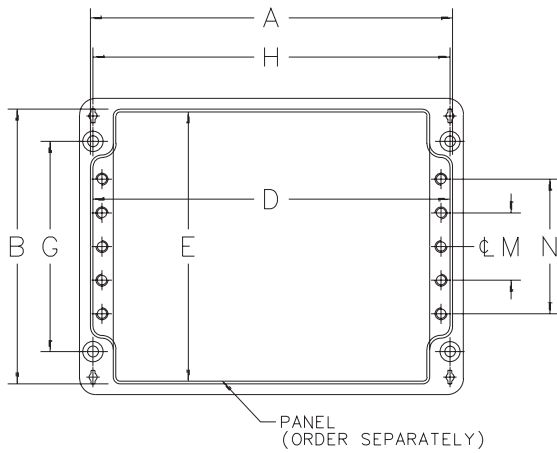
<sup>a</sup> These enclosures have only two mounting holes.



TOP VIEW



SECTION C-C



TOP VIEW WITH COVER REMOVED

# COMPACT® Aluminum Type 4X Enclosures Accessories



## Hinge Kit

Made of die-cast aluminum. Angle rotation approximately 170 degrees. Mounting template and stainless steel hardware included. Two hinges per kit.

Catalog Number
----------------

CCAHK
-------



## Mounting Bracket Kits

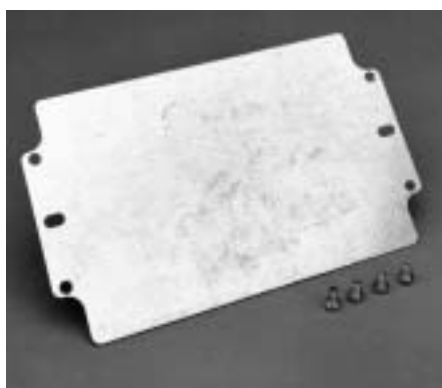
Mounting brackets are made of non-corrosive 12 gauge steel alloy. Two or four brackets per kit. Stainless steel mounting screws and installation instructions are included.

Catalog Number	Description
----------------	-------------

CCAMF12	Two brackets
---------	--------------

CCAMF16	Two brackets
---------	--------------

CCAMF31	Four brackets
---------	---------------



## Panels

Made of clear zinc-plated steel. Permits electro-mechanical components to be mounted inside the enclosure.

Catalog Number	Panel Size D x E
----------------	------------------

CCAP88	2.52 x 2.72 (64 x 69)
--------	-----------------------

CCAP128	4.49 x 2.72 (114 x 69)
---------	------------------------

CCAP188	6.46 x 2.72 (164 x 69)
---------	------------------------

CCAP1212	4.29 x 4.26 (109 x 108)
----------	-------------------------

CCAP2212	8.04 x 4.26 (204 x 108)
----------	-------------------------

CCAP1616	5.75 x 5.75 (146 x 146)
----------	-------------------------

CCAP2616	9.69 x 5.75 (246 x 146)
----------	-------------------------

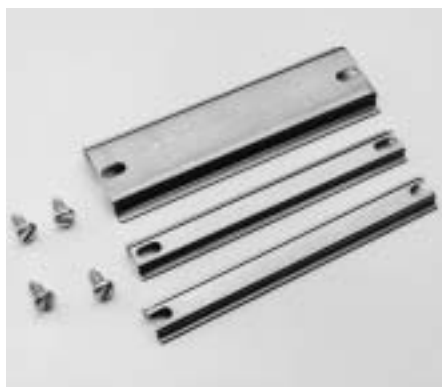
CCAP3616	13.63 x 5.75 (346 x 146)
----------	--------------------------

CCAP2023	7.29 x 8.47 (185 x 215)
----------	-------------------------

CCAP3323	12.41 x 8.47 (315 x 215)
----------	--------------------------

CCAP6031	23.05 x 11.58 (585 x 294)
----------	---------------------------

Millimeter dimensions in ( ); do not convert metric dimensions to inch.



## DIN Type Rails

Receive terminal blocks, relays, switches, filters, timers, and various other electrical and electronic components. Lengths fit size of enclosure. Depending on the type of clamp, TS-15-(S1) or TS-35-(S2) rail is used. All DIN rails have yellow chromate plating. Made of zinc-plated steel.

Catalog Number
----------------

CCADR8S1
----------

CCADR12S1
-----------

CCADR18S1
-----------

CCADR12S2
-----------

CCADR22S2
-----------

CCADR16S2
-----------

CCADR26S2
-----------

CCADR36S2
-----------

CCADR20S2
-----------

CCADR33S2
-----------

CCADR60S2
-----------

<b>Accessory Selection Matrix Aluminum Type 4X Enclosures</b>											
Catalog Number	CCA886	CCA1286	CCA1886	CCA12128	CCA22128	CCA16169	CCA26169	CCA36169	CCA202311	CCA332311	CCA332318
<b>Hinge Kit</b>											
CCAHK				•	•	•	•	•	•	•	•
<b>Mounting Bracket Kit</b>											
CCAMF12				•	•						
CCAMF16						•		•			
CCAMF31									•	•	•
<b>Panels</b>											
CCAP88	•										
CCAP128		•									
CCAP188			•								
CCAP1212				•							
CCAP2212					•						
CCAP1616						•					
CCAP2616							•				
CCAP3616								•			
CCAP2023									•		
CCAP3323										•	•
<b>DIN Type Rails</b>											
CCADR8S1	•										
CCADR12S1		•									
CCADR18S1			•								
CCADR12S2				•							
CCADR22S2					•						
CCADR16S2						•					
CCADR26S2							•				
CCADR36S2								•			
CCADR20S2									•		
CCADR33S2										•	•





A Pentair Company

Rev. A June 2003

# Aluminum Continuous Hinge CHAL Junction Boxes



## Application

Designed as an instrument housing or junction box for electrical, electronic, or pneumatic components. It is ideal for applications where a lightweight box is required.

## Construction

- Type 5052 H-32 aluminum .080-inch (2 millimeters) thick
- Seams continuously welded and ground smooth, no holes or knockouts
- Stainless steel screws and clamps secure cover and assure dust-tight seal
- Cover removed by pulling stainless steel continuous hinge pin
- Oil-resistant gasket and adhesive
- Weldnuts furnished for mounting optional panels and terminal block kits
- Specify side to be hinged when ordering modified boxes

## Finish

Enclosures are unpainted. Cover and sides of body have smooth brushed finish. Optional aluminum panels are unpainted. Optional steel panels are white.

## Industry Standards

UL 50, File No. E27567: Type 12 and Type 13  
NEMA/EEMAC Type 12 and Type 13  
CSA File No. LL42184: Type 12  
IEC 60529, IP65

## Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Electrical Interlocks
- Fast Operating Junction Box Clamp
- Lock Kit
- Panels (see table)
- Swing-Out Panel Kit
- Terminal Block Kit Assembly
- Window Kit
- Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in enclosure or subpanel
- Mounting
- Doors
- Subpanels
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

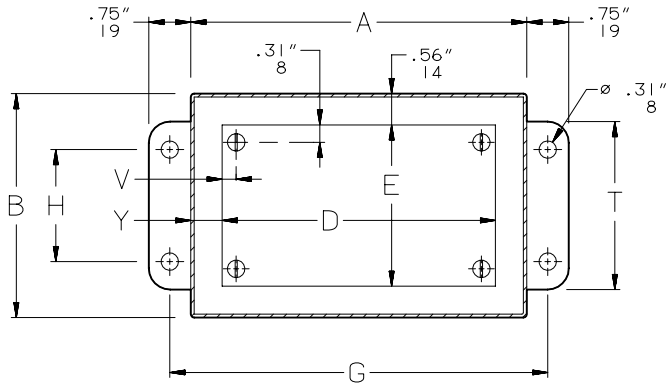
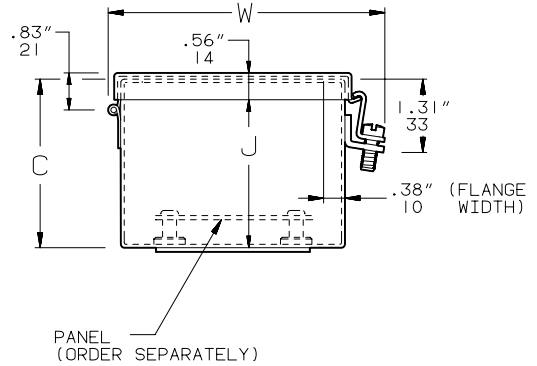
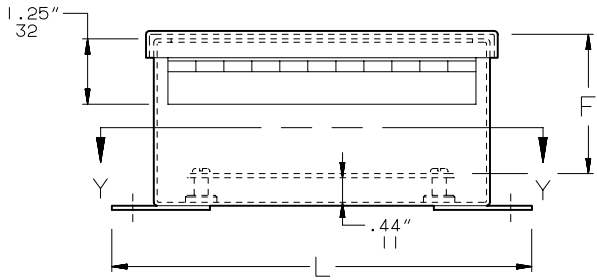
NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Standard Sizes Aluminum Continuous Hinge CHAL Junction Boxes

Box Catalog Number	Box Size A x B x C	* Aluminum Panel Catalog Number	* Steel Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	T	V	Y
A606CHAL	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6AL	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	7.50 x 6.94 (191 x 176)	3.50 (89)	3.56 (90)	5.00 (127)	0.31 (8)	0.56 (14)
A8064CHAL	8.00 x 6.00 x 4.00 (203 x 152 x 102)	A8P6AL	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	9.50 x 6.94 (241 x 176)	3.50 (89)	3.56 (90)	5.00 (127)	0.25 (6)	0.62 (16)
A1008CHAL	10.00 x 8.00 x 4.00 (254 x 203 x 102)	A10P8AL	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	11.50 x 8.94 (292 x 227)	3.50 (89)	3.56 (90)	7.00 (178)	0.25 (6)	0.62 (16)
A12106CHAL	12.00 x 10.00 x 6.00 (305 x 254 x 152)	A12P10AL	A12P10	10.75 x 8.88 (273 x 225)	12.75 x 8.00 (324 x 203)	13.50 x 10.94 (343 x 278)	5.50 (140)	5.56 (141)	9.00 (229)	0.25 (6)	0.62 (16)
A1412CHAL	14.00 x 12.00 x 6.00 (356 x 305 x 152)	A14P12AL	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	15.50 x 12.94 (394 x 329)	5.50 (140)	5.56 (141)	11.00 (279)	0.25 (6)	0.62 (16)
A1614CHAL	16.00 x 14.00 x 6.00 (406 x 356 x 152)	A16P14AL	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	17.50 x 14.94 (445 x 379)	5.50 (140)	5.56 (141)	13.00 (330)	0.25 (6)	0.62 (16)

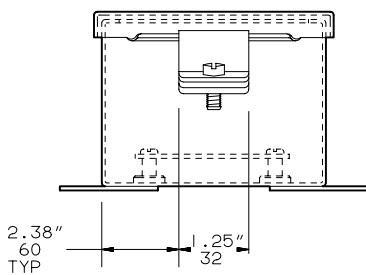
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

\* Panels must be ordered separately. Optional stainless steel panels are also available for most sizes. See General Accessories.

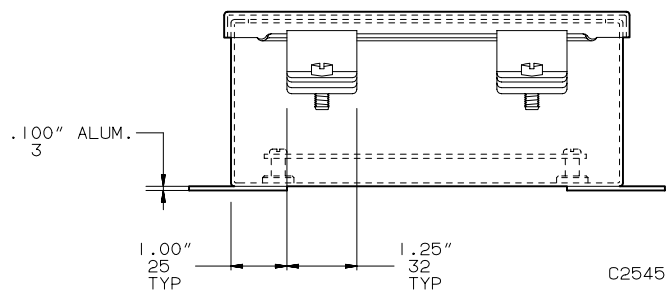


SECTION Y-Y

- NOTES: 1. Aluminum panels are .080 in. (2mm) thick.  
2. Steel panels are 14 gauge.  
3. Stainless steel panel screws are #10-32 pan head.



View showing clamp end of box when one clamp is used.



View showing clamp end of box when two clamps are used. When  $A=8.00$  in. (203mm) or more, use two clamps.



A Pentair Company

# Aluminum Clamp Cover Type 4X NFAL Junction Boxes



## Application

This lightweight enclosure provides long-lasting protection for housing electrical components in highly corrosive environments. It is used in both indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants.

## Construction

- Type 5052 H-32 aluminum, 0.080 in. (2mm) thick
- Seams continuously welded and ground smooth, no holes or knockouts
- Stainless steel screws and clamps on four sides of cover assure watertight seal
- Oil-resistant gasket and adhesive
- Weldnuts provided for mounting optional panels and terminal block kits in size 6.00 x 4.00 in. (152 x 102mm) and larger

## Finish

Enclosures are unpainted. Cover and sides of body have smooth brushed finish. Optional aluminum panels are unpainted. Optional steel panels are white.

## Industry Standards

UL 50, File No. E27567: Type 3R, Type 4, Type 4X (see table), and Type I2  
 UL 508A, 508, File No. E61997: Type 3R, Type 4, Type 4X (see table), and Type I2  
 NEMA/EEMAC Type 3R, Type 4, Type 4X, Type I2, and Type I3  
 CSA File No. LL42184: Type 4, Type 4X, and Type I2  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Electrical Interlocks
- Fast Operating Junction Box Clamp Panels (see table)
- Swing-Out Panel Kit
- Terminal Block Kit Assembly
- Window Kit
- Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in enclosure or subpanel
- Mounting
- Doors
- Subpanels
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Standard Sizes Aluminum Clamp Cover Type 4X NFAL Junction Boxes

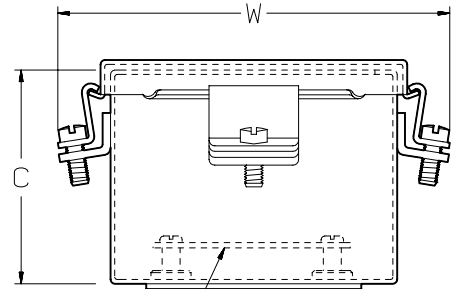
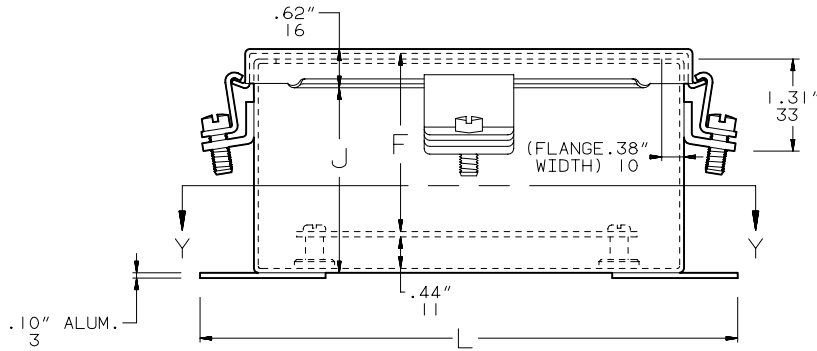
Box Catalog Number	Box Size A x B x C	* Aluminum Panel Catalog Number	* Steel Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	M	N	T	V	Y
■ A604NFAL	6.00 x 4.00 x 3.00 (152 x 102 x 76)	A6P4AL	A6P4	4.88 x 2.88 (124 x 73)	6.75 x 2.00 (171 x 51)	7.50 x 5.38 (191 x 137)	2.50 (64)	2.50 (64)	1.38 (35)	2.38 (60)	3.00 (76)	0.31 (8)	0.56 (14)
■ A806NFAL	8.00 x 6.00 x 3.50 (203 x 152 x 89)	A8P6AL	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	9.50 x 7.38 (241 x 187)	3.00 (76)	3.00 (76)	2.38 (60)	3.38 (86)	5.00 (127)	0.25 (6)	0.62 (16)
□ A606NFAL	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6AL	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	7.50 x 7.38 (191 x 187)	3.50 (89)	3.50 (89)	2.38 (60)	2.38 (60)	5.00 (127)	0.31 (8)	0.56 (14)
□ A1008NFAL	10.00 x 8.00 x 4.00 (254 x 203 x 102)	A10P8AL	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	11.50 x 9.38 (292 x 238)	3.50 (89)	3.50 (89)	3.38 (86)	1.00 (25)	7.00 (178)	0.25 (6)	0.62 (16)
□ A1210NFAL	12.00 x 10.00 x 5.00 (305 x 254 x 127)	A12P10AL	A12P10	10.75 x 8.88 (273 x 225)	12.75 x 8.00 (324 x 203)	13.50 x 11.38 (343 x 289)	4.50 (114)	4.50 (114)	2.00 (51)	3.00 (76)	9.00 (229)	0.25 (6)	0.62 (16)
□ A1412NFAL	14.00 x 12.00 x 6.00 (356 x 305 x 152)	A14P12AL	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	15.50 x 13.38 (394 x 340)	5.50 (140)	5.50 (140)	2.00 (51)	3.00 (76)	11.00 (279)	0.25 (6)	0.62 (16)
□ A1614NFAL	16.00 x 14.00 x 6.00 (406 x 356 x 152)	A16P14AL	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	17.50 x 15.38 (445 x 391)	5.50 (140)	5.50 (140)	3.50 (89)	1.50 (38)	13.00 (330)	0.25 (6)	0.62 (16)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

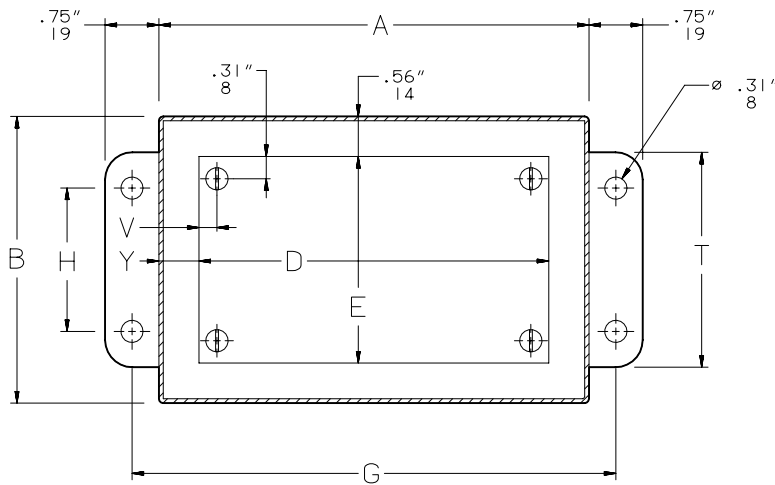
\* Panels must be ordered separately. Optional stainless steel panels are available for most sizes. See General Accessories.

□ UL 50

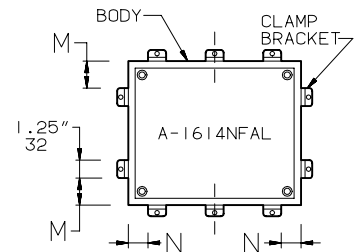
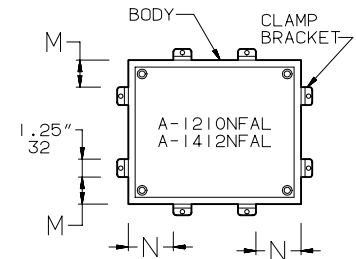
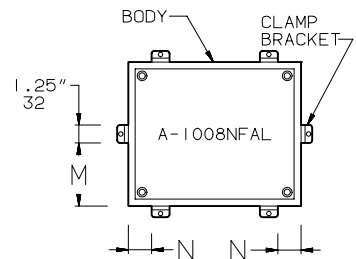
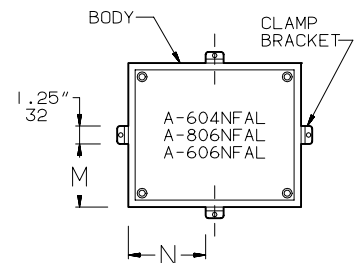
■ UL 508A, 508



**Clamp Bracket Locations**



SECTION Y-Y



- NOTES: 1. Aluminum panels are .080 in. (2mm) thick.  
 2. Steel panels are 14 gauge.  
 3. Stainless steel panel screws are #10-32 pan head.

C2546



## Application

Lightweight aluminum enclosure provides long-lasting protection for housing electrical components in both indoor and extreme outdoor environments. Designed for rooftop or tower-mounted telecom applications. Suitable for use with DataCom and industrial applications and in petrochemical plants, sewage plants, marine environments, and similar installations.

## Construction

- Type 5052-H32 aluminum. Covers are .080 or .100 in. thick, depending on size. Bodies are .080 in. thick.
- Continuously welded and ground seams
- Foam-in-place gasket
- 1- or 3-point latching (screwdriver slot) depending on door size
- Door stop/wind latch
- Two door/hinge styles available:
  - Easily removable door with hidden hinge and retained hinge pin. Maximum door load 50 lbs.
  - Heavy duty continuous hinge. Maximum door load 150 lbs.
- Grounding stud on body
- Bonding provision on door
- Optional solar shield top helps keep enclosure interior cool when installed outdoors

## Industry Standards

UL 508A, 508, File Number E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12  
CSA File Number LR42186: Type 3, Type 3R, Type 4, Type 4X, Type 12  
NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12  
IEC 60529 IP66  
Designed to meet Bellcore GR487, GR63, IEC 48D  
Meets Type 3RX requirements

## Finish

RAL 7035 textured light gray polyester powder finish inside and out.

## Accessories

Clip Nut Package  
Door Stop Kit  
Handle Options  
Mounting Bracket Kit  
Mounting Panel  
Pole Mounting Kit  
Rack Angles  
Screw Package  
Shelves  
Solar Shield Top

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

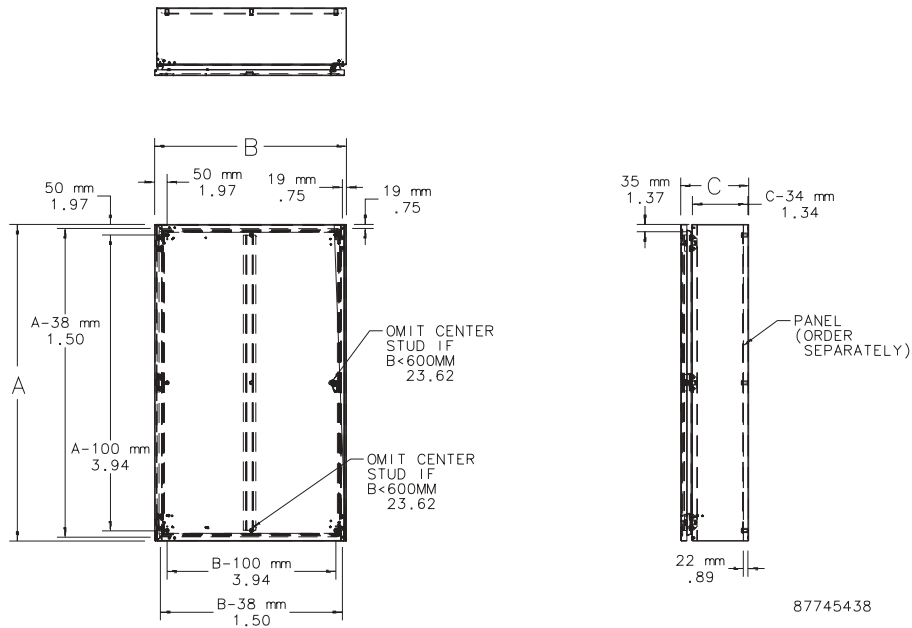
- Enclosure height, width, depth
- Over 100 standard finish colors and textures
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners, mounting channel in enclosure or subpanel
- Tapped holes, fasteners in enclosure or subpanel
- Mounting
- Doors
- Subpanels
- Structural changes
- Environmental control (louvers, fans, filters)
- Windows
- Standard accessories
- Solar shields
- 

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).  
To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

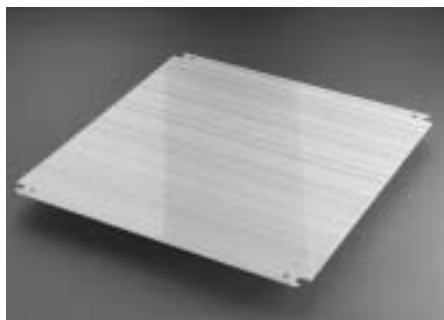
**Standard Sizes COMLINE® Aluminum Wall-Mount Enclosures**

Catalog Number Hidden Hinge	Continuous Hinge	Size A x B x C millimeter (inch)	Latch Points	Ship Wt. Door Thickness	Std. Pkg. Lbs.
ECL303015	ECL303015CH	300 x 300 x 150 (11.8 x 11.8 x 5.9)	1	.080	9.0
ECL403015	ECL403015CH	400 x 300 x 150 (15.7 x 11.8 x 5.9)	1	.080	10.0
ECL404015	ECL404015CH	400 x 400 x 150 (15.7 x 15.7 x 5.9)	1	.080	12.0
ECL404020	ECL404020CH	400 x 400 x 200 (15.7 x 15.7 x 7.9)	1	.080	13.0
ECL504020	ECL504020CH	500 x 400 x 200 (19.7 x 15.7 x 7.9)	1	.080	15.0
ECL505020	ECL505020CH	500 x 500 x 200 (19.7 x 19.7 x 7.9)	1	.080	17.0
ECL605020	ECL605020CH	600 x 500 x 200 (23.6 x 19.7 x 7.9)	3	.080	19.0
ECL606020	ECL606020CH	600 x 600 x 200 (23.6 x 23.6 x 7.9)	3	.100	23.0
ECL806020	ECL806020CH	800 x 600 x 200 (31.5 x 23.6 x 7.9)	3	.100	27.0
ECL1006030	ECL1006030CH	1000 x 600 x 300 (39.4 x 23.6 x 11.8)	3	.100	35.0
ECL1209030	ECL1209030CH	1200 x 900 x 300 (47.2 x 35.4 x 11.8)	3	.100	55.0
ECL1509030	ECL1509030CH	1500 x 900 x 300 (59.1 x 35.4 x 11.8)	3	.100	78.0



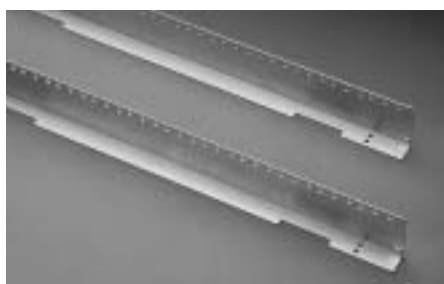
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# COMLINE® Wall-Mount Enclosures Accessories



## Mounting Panel

provides a mounting surface in the back of the enclosure for surface mount components. Mill finish aluminum.



## Rack Angles

allows for mounting 19" rack equipment in 600mm wide enclosures. Zinc-plated 14 gauge steel with .281-inch (7mm) diameter holes (thru-hole type). Twenty M5 screws and 20 clip nuts included for mounting rack angles to enclosure and for mounting equipment to rack angles.



## Door Stop Kit

secures doors in the open position. Self-actuating. Mounts to top or bottom of door. Stainless steel and aluminum material. Mounting hardware included.

Patent: 6,292,978 (U.S.)  
Other patents pending.



## Solar Shield Top

provides a vented area on top of the enclosure to absorb solar heating effects and help keep enclosure cool. Also provides a drip shield to keep liquids away from the door sealing surface. Aluminum with RAL 7035 textured light gray finish inside and out. Maintains enclosure rating. Includes mounting hardware.



## Handle Options

can be padlocked for added security. Kit includes handle and mounting hardware.

Catalog Number	Fits		Width	Ship Wt. Std. Pkg. Lbs.
	A x B millimeter	Height		
EP3030AL	300 x 300	226 (8.90)	226 (8.90)	1.5
EP4030AL	400 x 300	326 (12.84)	226 (8.90)	2.0
EP4040AL	400 x 400	326 (12.94)	326 (12.94)	2.5
EP5040AL	500 x 400	426 (16.78)	326 (12.94)	3.0
EP5050AL	500 x 500	426 (16.78)	426 (16.78)	4.0
EP6050AL	600 x 500	526 (20.71)	426 (16.78)	5.0
EP6060AL	600 x 600	526 (20.71)	526 (20.71)	6.0
EP8060AL	800 x 600	726 (28.59)	526 (20.71)	8.0
EP10060AL	1000 x 600	926 (36.46)	526 (20.71)	10.0
EP12090AL	1200 x 900	1126 (44.33)	826 (32.52)	15.0
EP15090AL	1500 x 900	1426 (56.15)	826 (32.52)	24.0

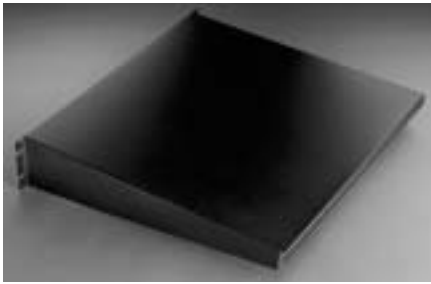
Inch dimensions in ( ).

Catalog Number	Fits A millimeter	Ship Wt Std. Pkg. Lbs.
ERA196TH	600	2.5
ERA198TH	800	4.0
ERA1910TH	1000	7.0

Catalog Number	Description	Ship Wt. Std. Pkg. Lbs.
EDSK	Door Stop Kit	1.0

Catalog Number	Fits B x C millimeter	Ship Wt. Std. Pkg. Lbs.
ESSH3015	300 x 150	3.0
ESSH4015	400 x 150	4.0
ESSH4020	400 x 200	4.0
ESSH5020	500 x 200	5.0
ESSH6020	600 x 200	5.0
ESSH6030	600 x 300	6.0
ESSH9030	900 x 300	8.0

Catalog Number	Description	Ship Wt. Std. Pkg. Lbs.
ELHP	Padlocking L-Handle	1.0
EPL4	Padlocking Quarter-Turn with key	1.0



### Shelves

mount to 19" rack angles to house voice/data networking equipment. Load rating 30 lbs (13.6 kg). Check cabinet depth before ordering.

Catalog Number	Size W x D (inch)	Ship Wt. Std. Pkg. Lbs.
ESH198	19 x 8	9.0
ESH1917	19 x 17	11.0



### Screw Package

includes nickel-plated oval-head screws with black nylon finishing washers in each package. Screws attach rack panels and rack mounted equipment to rack mounting angles.

Catalog Number	Description	Ship Wt. Std. Pkg. Lbs.
AS1032	Screw 10-32 x 3/4 (package of 20)	1.0
AS1032250	10-32 x 3/4 (package of 250)	3.0
ASM5	M5 x 20 (package of 20)	1.0



### Clip Nut Package

includes twenty zinc-plated clip nuts that fit all rack mounting angles with .281-inch (7mm) diameter holes (thru-hole type).

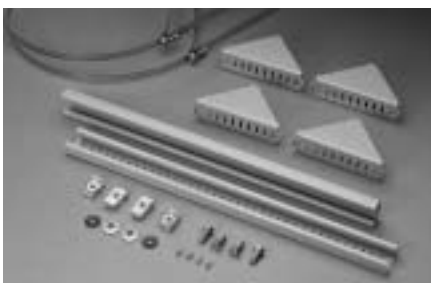
Catalog Number	Description	Fits	Ship Wt. Std. Pkg. Lbs.
AN1032	Clip Nut 10-32 (package of 20)	.281 diameter mounting holes	1.0
ANM5	Clip Nut M5 (Metric) (package of 20)	.281 diameter mounting holes	1.0



### Mounting Bracket Kits

are available in stainless steel or composite material. Kit includes 4 brackets and mounting hardware.

Catalog Number	Description	Ship Wt. Std. Pkg. Lbs.
CMFKSS	Stainless Steel	0.9
CMTGFT	Composite	0.4



### Pole Mounting Kit

enables COMLINE® enclosures to be mounted to poles of various sizes and shapes. Kit includes 2 galvanized steel mounting channels, 2 straps suitable for 3 in. to 12 in. diameter pole, and mounting hardware.

Catalog Number	Fits B millimeter	Ship Wt. Std. Pkg. Lbs.
CPMK12	300	5.0
CPMK16	400	6.0
CPMK20	500	7.0
CPMK24	600	7.0





A Pentair Company

# Aluminum Continuous Hinge Type 4X Enclosures



## Application

This light-weight enclosure provides long-lasting protection for electrical components in highly corrosive environments. It is used in both indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants. Suitable for use in petrochemical plants, sewage plants, marine environments, and similar installations.

## Construction

- Type 5052 H-32 aluminum
- Seams continuously welded and ground smooth, no holes or knockouts
- Door stiffeners provided in larger enclosures for extra rigidity
- Rolled lip around three sides of door and all sides of enclosure opening excludes liquids and contaminants
- Stainless steel door clamp assembly assures watertight seal
- Door is easily removed by pulling stainless steel continuous hinge pin
- Data pocket is high-impact thermoplastic
- Hasp and staple for padlocking
- Panel screws are stainless steel
- Tapped pads provided for mounting optional panels
- Oil-resistant gasket and adhesive

## Finish

Enclosures are unpainted. Door fronts have smooth brushed finish. Optional aluminum panels are unpainted. Optional steel panels are white.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3R, Type 4, Type 4X, and Type 12  
NEMA/EEMAC Type 3R, Type 4, Type 4X, Type 12, and Type 13  
CSA File No. LR42186: Type 4, Type 4X, and Type 12  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Corrosion Inhibitors
- Electrical Interlocks
- Fast Operating Clamp Assembly
- Lighting Kit
- Panel Support Kit
- Panels (see table)
- Rack Mounting Angle Kit
- Swing-Out Panel Kit
- Terminal Block Kit Assembly
- Window Kit
- Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Enclosure height, width, depth
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in enclosure or subpanel
- Mounting
- Doors
- Subpanels
- Structural changes
- Environmental control (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

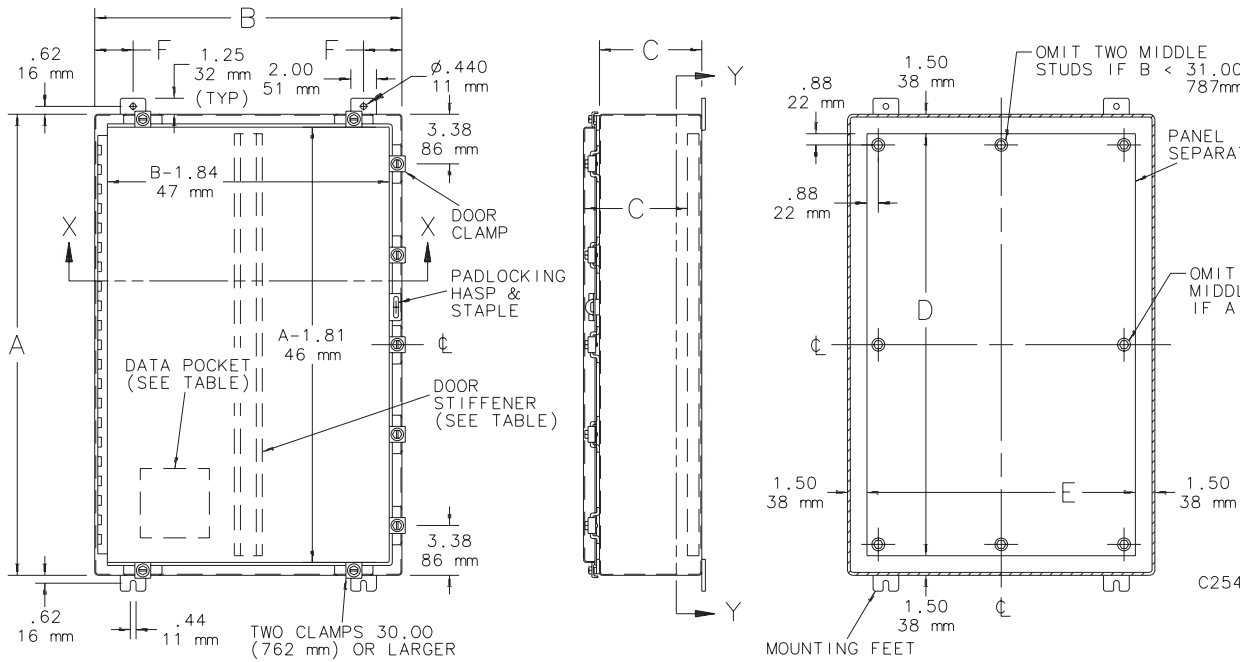
## Standard Sizes Aluminum Continuous Hinge Type 4X Enclosures

Enclosure Catalog Number	Enclosure Size A x B x C		* Aluminum Panel Catalog Number	* Steel Panel Catalog Number	Panel Size D x E F				Number of Clamps
	inch	(millimeters)			inch	(mm)	inch	(mm)	
A16H1206ALLP	16.00 x 12.00 x 6.00	(406 x 305 x 152)	A16P12AL	A16P12	13.00 x 9.00	(330 x 229)	1.25	(32)	4
A20H1606ALLP	20.00 x 16.00 x 6.00	(508 x 406 x 152)	A20P16AL	A20P16	17.00 x 13.00	(432 x 330)	3.00	(76)	4
A20H2006ALLP	20.00 x 20.00 x 6.00	(508 x 508 x 152)	A20P20AL	A20P20	17.00 x 17.00	(432 x 432)	3.00	(76)	4
A24H2006ALLP	24.00 x 20.00 x 6.00	(610 x 508 x 152)	A24P20AL	A24P20	21.00 x 17.00	(533 x 432)	3.00	(76)	5
A16H1608ALLP	16.00 x 16.00 x 8.00	(406 x 406 x 203)	A16P16AL	A16P16	13.00 x 13.00	(330 x 330)	3.00	(76)	4
A24H2408ALLP	24.00 x 24.00 x 8.00	(610 x 610 x 203)	A24P24AL	A24P24	21.00 x 21.00	(533 x 533)	3.00	(76)	5
A30H2408ALLP	30.00 x 24.00 x 8.00	(762 x 610 x 203)	A30P24AL	A30P24	27.00 x 21.00	(686 x 533)	3.00	(76)	5
A36H2408ALLP	36.00 x 24.00 x 8.00	(914 x 610 x 203)	A36P24AL	A36P24	33.00 x 21.00	(838 x 533)	3.00	(76)	5
A36H3008ALLP	36.00 x 30.00 x 8.00	(914 x 762 x 203)	A36P30AL	A36P30	33.00 x 27.00	(838 x 686)	3.00	(76)	7
A48H3608ALLP	48.00 x 36.00 x 8.00	(1219 x 914 x 203)	A48P36AL	A48P36	45.00 x 33.00	(1143 x 838)	3.00	(76)	8
A20H1610ALLP	20.00 x 16.00 x 10.00	(508 x 406 x 254)	A20P16AL	A20P16	17.00 x 13.00	(432 x 330)	3.00	(76)	4
A24H2010ALLP	24.00 x 20.00 x 10.00	(610 x 508 x 254)	A24P20AL	A24P20	21.00 x 17.00	(533 x 432)	3.00	(76)	5
A30H2412ALLP	30.00 x 24.00 x 12.00	(762 x 610 x 305)	A30P24AL	A30P24	27.00 x 21.00	(686 x 533)	3.00	(76)	5
A36H3012ALLP	36.00 x 30.00 x 12.00	(914 x 762 x 305)	A36P30AL	A36P30	33.00 x 27.00	(838 x 686)	3.00	(76)	7
A60H3612ALLP	60.00 x 36.00 x 12.00	(1524 x 914 x 305)	A60P36AL	A60P36	57.00 x 33.00	(1448 x 838)	3.00	(76)	9

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

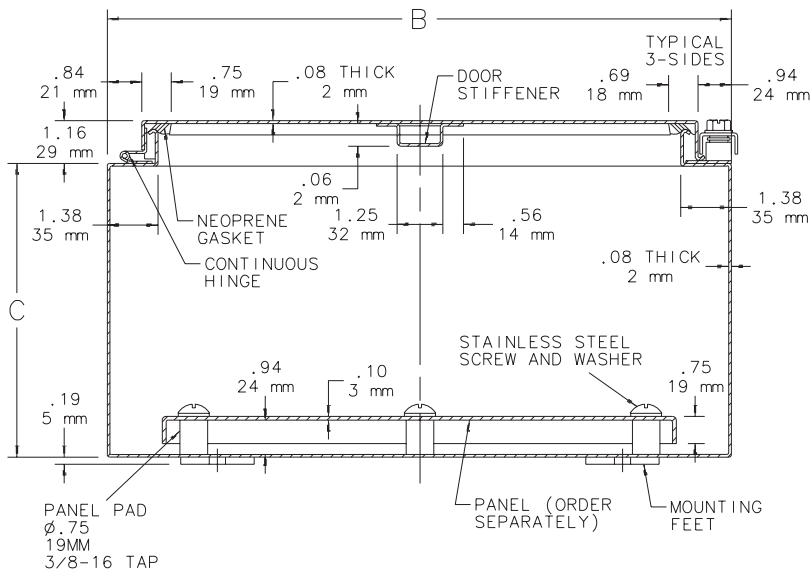
\* Panels must be ordered separately.

NOTE: Steel panels have a formed flange along any side that is longer than 21 inches (533mm). Steel panels A24P20 and A24P24 have flanges on all four sides. Aluminum panels are flanged on all four sides if both panel dimensions exceed 13.00 inches (330mm). Smaller panels are not flanged.



**NOTE:** Clamps are furnished along three sides of door. Maximum spacing between door clamps is approximately 15.00 inches (381 millimeters).

Data Pockets for Enclosures		
Enclosure Size		Pocket
A	B	
Any	12.00 (305)	None
<30.00 (762)	>12 and <20.00 (305) (508)	Small
>30.00 (762)	>20.00 (508)	Large



# Fiberglass Type 4X Small Enclosures



## Application

Designed for use as a junction box or instrument housing in both indoor and outdoor settings. The enclosure is used in highly corrosive environments typically found in oil refineries, chemical processing plants, waste water treatment, marine installations, pulp and paper processing, and electroplating plants.

## Construction

- Molded fiberglass polyester material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Fiberglass material is easily punched, drilled, filed, or sawed
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Threaded internal bosses provided for mounting optional panels and terminal block kits
- Scratch-resistant GE Lexan Margard® windows are permanently bonded in place
- Screw cover enclosures have easily removable covers attached to body with internal zinc-plated steel hinges. Cover securely fastens to the body with four captivated Type 316 stainless steel cover screws
- Enclosures with quick-release latches have corrosion-resistant polyester hinges and spring-loaded polyester latches with a Type 316L stainless steel bail. Attached with Type 316 stainless steel screws. A Type 316L stainless steel padlock hasp is furnished with each enclosure.
- Sealing washers are furnished with enclosure

## Finish/Color

Optional steel panels are white. Optional stainless steel, aluminum, and composite panels are unpainted. Fiberglass material is light gray inside and out.

## Industry Standards

Mounting brackets required to meet UL/CSA external mounting requirements.

UL 508A, 508, File No. E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 Enclosure flammability rating per UL 508  
 Window flammability rating per UL 508  
 CSA File No. LR42186: Type 3R, Type 4, Type 4X, and Type 12  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Frameless Window Kit  
 Panels (see table)  
 Stainless Steel Window Kit  
 Terminal Block Kit Assembly  
 Ventilators  
 Standard Accessories

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in subpanel
- Mounting
- Doors
- Subpanels
- Environmental control (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



## Fiberglass Mounting Bracket Kit

Bracket is molded from fiberglass reinforced polyester. Kit includes four brackets, hardware, and installation instructions. Mounting hole dimensions with mounting brackets installed are  $[G + 2.50 (64\text{mm})] \times [H + .50 (13\text{mm})]$ . See tables for "G" and "H" dimensions.

Catalog Number
A50MFKR



## Threaded Panel Extenders

are made of zinc-plated steel and designed to raise the panel mounting surface. Extenders attach to threaded internal pads. Male and female thread size is #10. Each kit contains 4 extenders.

Catalog Number	Length
APE050	0.50 (13)
APE100	1.00 (25)

Millimeter dimensions in ( ); do not convert metric dimensions to inch.



**Standard Sizes Fiberglass Type 4X Solid Screw Cover**

Enclosure Catalog Number	Inside Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	K	V	X	Y
A645JFGR	5.50 x 4.00 x 4.94 (140 x 102 x 125)	No Panel	No Panel	4.75 x 2.00 (121 x 51)	6.00 x 4.50 (152 x 114)	4.41 (112)	4.13 (105)	1.00 (25)	—	4.22 (107)	3.59 (91)
A845JFGR	7.50 x 4.00 x 4.94 (191 x 102 x 125)	A6P4	4.88 x 2.88 (124 x 73)	6.75 x 2.00 (171 x 51)	8.00 x 4.50 (203 x 114)	4.41 (112)	4.13 (105)	1.00 (25)	0.31 (8)	6.22 (158)	3.59 (91)
A865JFGR	7.50 x 6.00 x 5.19 (191 x 152 x 132)	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	8.00 x 6.50 (203 x 165)	4.66 (118)	4.38 (111)	1.00 (25)	0.31 (8)	6.22 (158)	5.59 (142)
A1066JFGR	9.50 x 6.00 x 5.69 (241 x 152 x 145)	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	10.00 x 6.50 (254 x 165)	5.16 (131)	4.63 (118)	1.25 (32)	0.25 (6)	8.12 (206)	5.50 (140)
A1287JFGR	11.50 x 8.00 x 6.69 (292 x 203 x 170)	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	12.00 x 8.50 (305 x 216)	6.16 (156)	5.13 (130)	1.75 (44)	0.25 (6)	9.97 (253)	7.34 (186)
A14107JFGR	13.50 x 10.00 x 7.19 (343 x 254 x 183)	A12P10	10.75 x 8.88 (273 x 226)	12.75 x 8.00 (324 x 203)	14.00 x 10.50 (356 x 267)	6.66 (169)	5.63 (143)	1.75 (44)	0.25 (6)	11.97 (304)	9.34 (237)
A16128JFGR	15.50 x 12.00 x 8.19 (394 x 305 x 208)	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	16.00 x 12.50 (406 x 318)	7.66 (195)	6.13 (156)	2.25 (57)	0.25 (6)	13.78 (350)	11.16 (283)
A18149JFGR	17.50 x 14.00 x 8.69 (445 x 356 x 221)	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	18.00 x 14.50 (457 x 368)	8.16 (207)	6.63 (168)	2.25 (57)	0.25 (6)	15.78 (401)	13.16 (334)

**Standard Sizes Fiberglass Type 4X Solid Cover with Quick-Release Latches**

Enclosure Catalog Number	Inside Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	K	V	X	Y	Number of Latches
A645JFGQRR	5.50 x 4.00 x 5.02 (140 x 102 x 128)	No Panel	No Panel	4.75 x 2.00 (121 x 51)	6.00 x 5.39 (152 x 137)	4.50 (114)	4.13 (105)	1.00 (25)	—	4.22 (107)	3.59 (91)	1
A845JFGQRR	7.50 x 4.00 x 5.02 (191 x 102 x 128)	A6P4	4.88 x 2.88 (124 x 73)	6.75 x 2.00 (171 x 51)	8.00 x 5.39 (203 x 137)	4.50 (114)	4.13 (105)	1.00 (25)	0.31 (8)	6.22 (158)	3.59 (91)	1
A865JFGQRR	7.50 x 6.00 x 5.28 (191 x 152 x 134)	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	8.00 x 7.39 (203 x 188)	4.75 (121)	4.38 (111)	1.00 (25)	0.31 (8)	6.22 (158)	5.59 (142)	2
A1066JFGQRR	9.50 x 6.00 x 5.78 (241 x 152 x 147)	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	10.00 x 7.39 (254 x 188)	5.25 (133)	4.63 (118)	1.25 (32)	0.25 (6)	8.12 (206)	5.50 (140)	2
A1287JFGQRR	11.50 x 8.00 x 6.78 (292 x 203 x 172)	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	12.00 x 9.39 (305 x 239)	6.25 (159)	5.13 (130)	1.75 (44)	0.25 (6)	9.97 (253)	7.34 (186)	2
A14107JFGQRR	13.50 x 10.00 x 7.28 (343 x 254 x 185)	A12P10	10.75 x 8.88 (273 x 226)	12.75 x 8.00 (324 x 203)	14.00 x 11.39 (256 x 289)	6.75 (171)	5.63 (143)	1.75 (44)	0.25 (6)	11.97 (304)	9.34 (237)	2
A16128JFGQRR	15.50 x 12.00 x 8.28 (394 x 305 x 210)	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	16.00 x 13.39 (406 x 340)	7.75 (197)	6.13 (156)	2.25 (57)	0.25 (6)	13.78 (350)	11.16 (283)	2
A18149JFGQRR	17.50 x 14.00 x 8.78 (445 x 356 x 223)	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	18.00 x 15.39 (457 x 391)	8.25 (210)	6.63 (168)	2.25 (57)	0.25 (6)	15.78 (401)	13.16 (334)	2

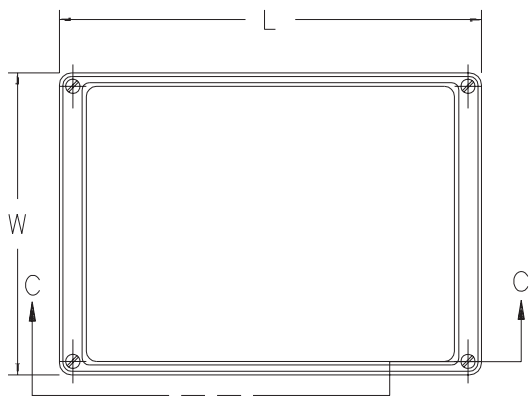
**Standard Sizes Fiberglass Type 4X Enclosures with Windows**

Enclosure Catalog Number	Inside Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	Window Size M x N	F	J	K	V	Number of Latches
A865JFGQRPWR	7.50 x 6.00 x 5.03 (191 x 152 x 128)	A6P6	4.88 x 4.88 (124 x 124)	6.75 x 4.00 (171 x 102)	8.00 x 7.39 (203 x 188)	4.55 x 4.00 (116 x 102)	4.52 (115)	4.38 (111)	1.00 (25)	0.31 (8)	1
A1066JFGQRPWR	9.50 x 6.00 x 5.53 (241 x 152 x 140)	A8P6	6.75 x 4.88 (171 x 124)	8.75 x 4.00 (222 x 102)	10.007 x 7.39 (254 x 188)	6.55 x 4.00 (166 x 102)	5.00 (127)	4.63 (118)	1.25 (32)	0.25 (6)	2
A1287JFGQRPWR	11.50 x 8.00 x 6.53 (292 x 203 x 166)	A10P8	8.75 x 6.88 (222 x 175)	10.75 x 6.00 (273 x 152)	12.00 x 9.39 (305 x 239)	8.25 x 5.84 (210 x 148)	6.00 (152)	5.13 (130)	1.75 (44)	0.25 (6)	2
A14107JFGQRPWR	13.50 x 10.00 x 7.03 (343 x 254 x 179)	A12P10	10.75 x 8.88 (273 x 226)	12.75 x 8.00 (324 x 203)	14.00 x 11.39 (256 x 289)	10.28 x 6.84 (261 x 174)	6.52 (166)	5.63 (143)	1.75 (44)	0.25 (6)	2
A16128JFGQRPWR	15.50 x 12.00 x 8.03 (394 x 305 x 204)	A14P12	12.75 x 10.88 (324 x 276)	14.75 x 10.00 (375 x 254)	16.00 x 13.39 (406 x 340)	12.34 x 9.10 (313 x 231)	7.52 (191)	6.13 (156)	2.25 (57)	0.25 (6)	2
A18149JFGQRPWR	17.50 x 14.00 x 8.53 (445 x 356 x 217)	A16P14	14.75 x 12.88 (375 x 327)	16.75 x 12.00 (425 x 305)	18.00 x 15.39 (457 x 391)	14.45 x 11.06 (367 x 281)	8.00 (203)	6.63 (168)	2.25 (57)	0.25 (6)	2

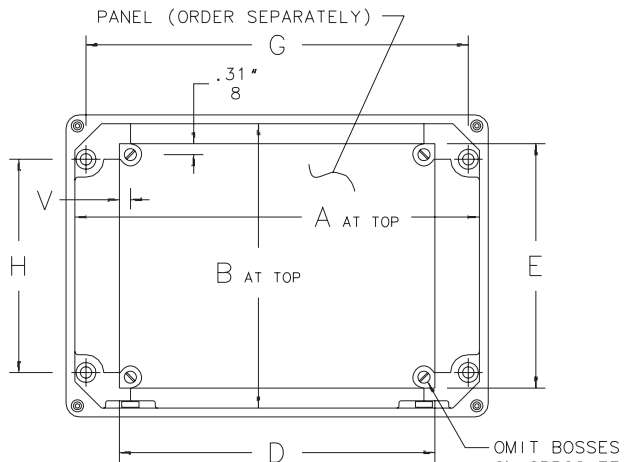
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.  
\* Panels must be ordered separately. Optional stainless steel, aluminum, and composite material panels are also available for most sizes. See General Accessories.

# Fiberglass Type 4X Small Enclosures

## ■ Solid Screw Cover Enclosure



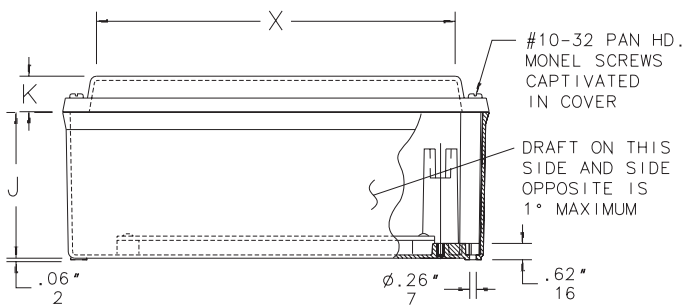
Top View with Cover



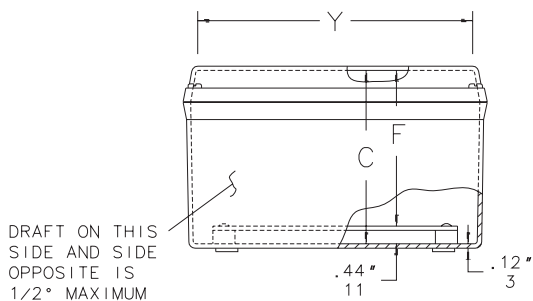
Top View with Cover Removed

OMIT BOSSES ON OPPOSITE CORNERS WHEN "A" IS LESS THAN 7.50" 191

NOTE: Panel screws have #10-32 threads.



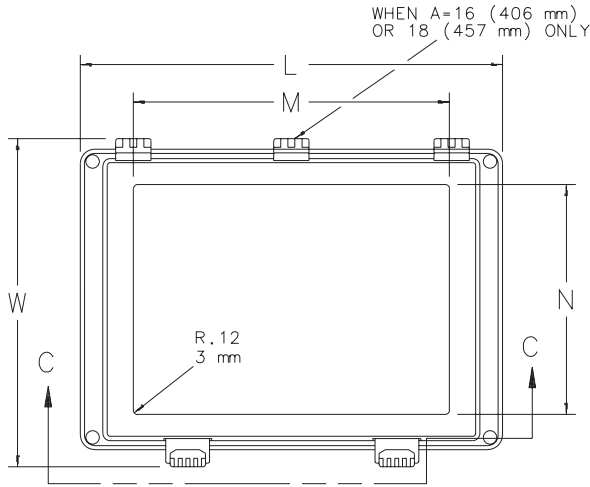
SECTION C-C



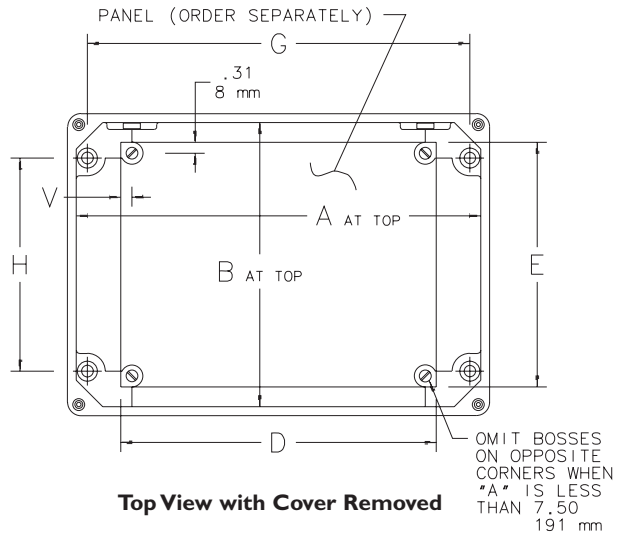
End View

C2549

■ Quick-Release Solid Cover Enclosure and Window Cover Enclosure

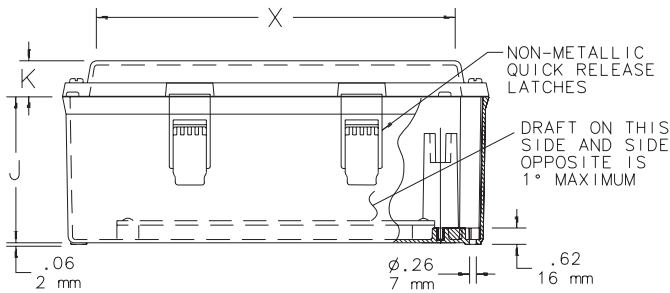


Top View with Cover

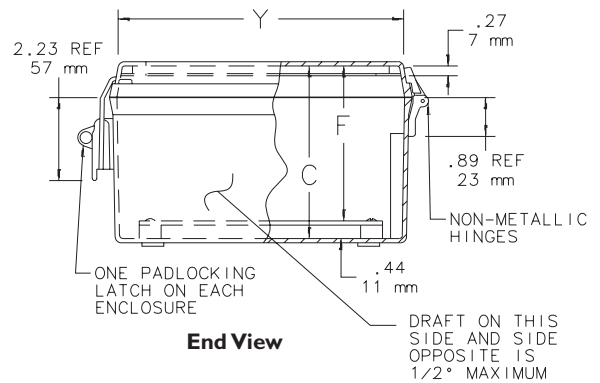


Top View with Cover Removed

- NOTES: 1. Panel screws have # 10-32 threads.  
2. Hinged cover opens 200° maximum.



SECTION C-C



End View

C2550

# Fiberglass Hinged Cover Type 4X Enclosures



## Application

Designed for use as a junction box or instrument housing in both indoor and outdoor settings. The enclosure is used in highly corrosive environments typically found in oil refineries, chemical processing plants, waste water treatment, marine installations, pulp and paper processing, and electroplating plants. The efficient design and simple construction create a low-cost, durable, and aesthetic enclosure.

## Construction

- Molded fiberglass polyester has outstanding chemical and temperature resistance qualities and exhibits excellent weatherability and physical properties
- Fiberglass is easily punched, drilled, filed, or sawed
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Polyester mounting brackets and stainless steel attachment screws are provided with each enclosure
- Scratch-resistant GE Lexan Margard<sup>®</sup> windows are permanently bonded in place
- Molded-in-place threaded brass inserts and plated steel screws are provided for mounting optional panels and terminal block kits
- Removable hinged cover attached to body with Type 316 stainless steel hinge pin

- Screw cover enclosures are secured with two captivated Type 316 stainless steel slotted cross point cover screws
- Enclosures with patented quick-release latches have corrosion-resistant polyester latches located in corners that provide unobstructed access to enclosure
- Hinge pin and bail are corrosion-resistant Type 316 stainless steel
- Knockout padlock provisions included in each latch

## Finish/Color

Optional steel panels are white. Optional stainless steel, aluminum, and composite panels are unpainted. Fiberglass material is light gray inside and out.

## Industry Standards

UL 508A, 508 File No. E61997: Type 4, Type 4X, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508  
Window flammability rating per UL 508  
CSA File No. LR42186: Type 4, Type 4X, Type 12, and Type 13  
IEC 60529, IP66

## Accessories

See Chapter 12, General Accessories.

Panels (see table)  
Threaded Panel Extenders  
Quick-Release Latch Kit  
Swing-Out Panel Kit  
Terminal Block Kit Assembly  
Ventilators

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes Fiberglass Hinged Solid Cover Type 4X Enclosures**

Catalog Number		Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	K	O	P	Q	R	T	U
Screw Cover	Quick-Release														
A664CHSCFG	A664CHQRFQ	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6	4.88 x 4.88 (124 x 124)	6.94 x 4.00 (176 x 102)	6.50 x 6.50 (165 x 165)	3.45 (88)	3.25 (83)	1.00 (25)	4.25 (108)	4.25 (108)	5.64 (143)	5.12 (130)	0.12 (3)	5.64 (143)
A864CHSCFG	A864CHQRFQ	8.00 x 6.00 x 4.00 (203 x 152 x 102)	A8P6	6.75 x 4.88 (171 x 124)	8.94 x 4.00 (227 x 102)	8.50 x 6.50 (216 x 165)	3.45 (88)	3.25 (83)	1.00 (25)	4.25 (108)	6.25 (159)	7.64 (194)	7.12 (181)	0.12 (3)	5.64 (143)
A1086CHSCFG	A1086CHQRFQ	10.00 x 8.00 x 6.00 (254 x 203 x 152)	A10P8	8.75 x 6.88 (222 x 175)	10.94 x 6.00 (278 x 152)	10.50 x 8.50 (267 x 216)	5.45 (138)	4.94 (125)	1.31 (33)	6.25 (159)	8.25 (210)	9.61 (244)	9.12 (232)	0.12 (3)	7.61 (193)
A12106CHSCFG	A12106CHQRFQ	12.00 x 10.00 x 6.00 (305 x 254 x 152)	A12P10	10.75 x 8.88 (273 x 226)	12.94 x 8.00 (329 x 203)	12.50 x 10.50 (318 x 267)	5.45 (138)	4.69 (119)	1.56 (40)	8.25 (210)	10.25 (260)	11.58 (294)	11.12 (282)	0.12 (3)	9.58 (243)
A14128CHSCFG	A14128CHQRFQ	14.00 x 12.00 x 8.00 (356 x 305 x 203)	A14P12	12.75 x 10.88 (324 x 276)	14.94 x 10.00 (379 x 254)	14.55 x 12.55 (370 x 319)	7.45 (189)	6.50 (165)	1.81 (46)	10.25 (260)	12.25 (311)	13.59 (345)	13.12 (333)	0.15 (4)	11.59 (294)
A16148CHSCFG	A16148CHQRFQ	16.00 x 14.00 x 8.00 (406 x 356 x 203)	A16P14	14.75 x 12.88 (375 x 327)	16.94 x 12.00 (430 x 305)	16.55 x 14.55 (420 x 370)	7.45 (189)	6.23 (158)	2.08 (53)	14.25 (311)	12.25 (311)	15.56 (395)	15.12 (384)	0.15 (4)	13.56 (344)
A181610CHSCFG	A181610CHQRFQ	18.00 x 16.00 x 10.00 (457 x 406 x 254)	A18P16	16.75 x 14.88 (425 x 378)	18.94 x 14.00 (481 x 356)	18.58 x 16.58 (472 x 421)	9.45 (240)	7.66 (195)	2.66 (68)	14.25 (362)	16.25 (413)	17.53 (445)	17.12 (435)	0.16 (4)	15.53 (394)

**Standard Sizes Fiberglass Hinged Window Cover Type 4X Enclosures**

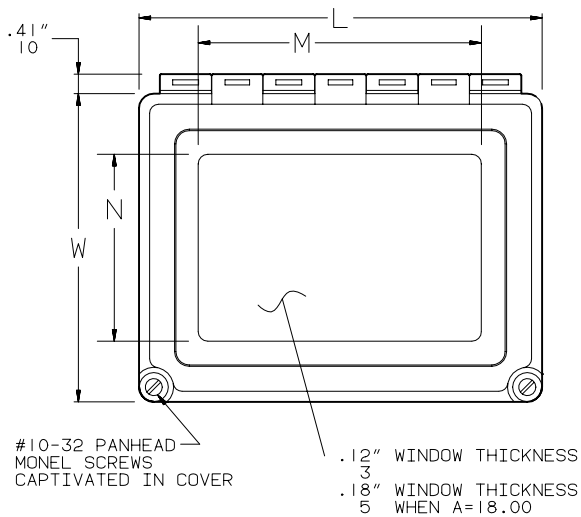
Catalog Number		Enclosure Size A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	Overall L x W	F	J	K	M	N	O	P	Q	R	T	U
Screw Cover	Quick-Release																
A664CHSCFGW	A664CHQRFQW	6.00 x 6.00 x 4.00 (152 x 152 x 102)	A6P6	4.88 x 4.88 (124 x 124)	6.94 x 4.00 (176 x 102)	6.50 x 6.50 (165 x 165)	3.45 (88)	3.25 (83)	1.00 (25)	4.25 (108)	4.25 (108)	4.25 (108)	5.64 (143)	5.12 (130)	0.12 (3)	5.64 (143)	
A864CHSCFGW	A864CHQRFQW	8.00 x 6.00 x 4.00 (203 x 152 x 102)	A8P6	6.75 x 4.88 (171 x 124)	8.94 x 4.00 (227 x 102)	8.50 x 6.50 (216 x 165)	3.45 (88)	3.25 (83)	1.00 (25)	6.25 (159)	4.25 (108)	4.25 (108)	6.25 (159)	7.64 (194)	7.12 (181)	0.12 (3)	5.64 (143)
A1086CHSCFGW	A1086CHQRFQW	10.00 x 8.00 x 6.00 (254 x 203 x 152)	A10P8	8.75 x 6.88 (222 x 175)	10.94 x 6.00 (278 x 152)	10.50 x 8.50 (267 x 216)	5.45 (138)	4.94 (125)	1.31 (33)	8.25 (210)	6.25 (159)	6.25 (159)	9.61 (244)	9.12 (232)	0.12 (3)	7.61 (193)	
A12106CHSCFGW	A12106CHQRFQW	12.00 x 10.00 x 6.00 (305 x 254 x 152)	A12P10	10.75 x 8.88 (273 x 226)	12.94 x 8.00 (329 x 203)	12.50 x 10.50 (318 x 267)	5.45 (138)	4.69 (119)	1.56 (40)	10.25 (260)	8.25 (210)	8.25 (210)	10.25 (260)	11.58 (294)	11.12 (282)	0.12 (3)	9.58 (243)
A14128CHSCFGW	A14128CHQRFQW	14.00 x 12.00 x 8.00 (356 x 305 x 203)	A14P12	12.75 x 10.88 (324 x 276)	14.94 x 10.00 (379 x 254)	14.55 x 12.55 (370 x 319)	7.45 (189)	6.50 (165)	1.81 (46)	12.25 (311)	10.25 (260)	10.25 (311)	12.25 (311)	13.59 (345)	13.12 (333)	0.15 (4)	11.59 (294)
A16148CHSCFGW	A16148CHQRFQW	16.00 x 14.00 x 8.00 (406 x 356 x 203)	A16P14	14.75 x 12.88 (375 x 327)	16.94 x 12.00 (430 x 305)	16.55 x 14.55 (420 x 370)	7.45 (189)	6.23 (158)	2.08 (53)	14.25 (362)	12.25 (311)	12.25 (311)	14.25 (362)	15.56 (395)	15.12 (384)	0.15 (4)	13.56 (344)
A181610CHSCFGW	A181610CHQRFQW	18.00 x 16.00 x 10.00 (457 x 406 x 254)	A18P16	16.75 x 14.88 (425 x 378)	18.94 x 14.00 (481 x 356)	18.58 x 16.58 (472 x 421)	9.45 (240)	7.66 (195)	2.66 (68)	16.25 (413)	14.25 (362)	14.25 (413)	16.25 (445)	17.53 (435)	17.12 (435)	0.16 (4)	15.53 (394)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

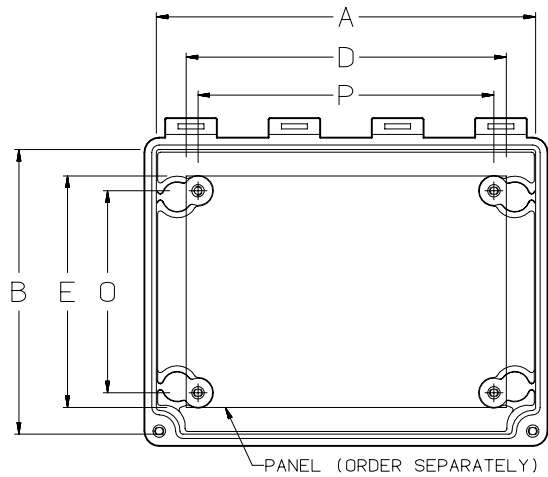
\* Panels must be ordered separately. Optional stainless steel, aluminum, and composite material panels are also available for most sizes. See General Accessories.



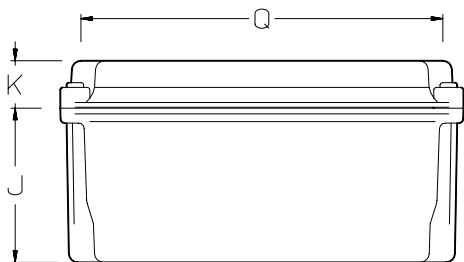
# Fiberglass Hinged Cover Type 4X Enclosures



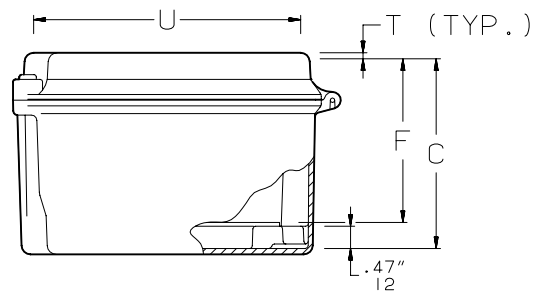
**Top View**



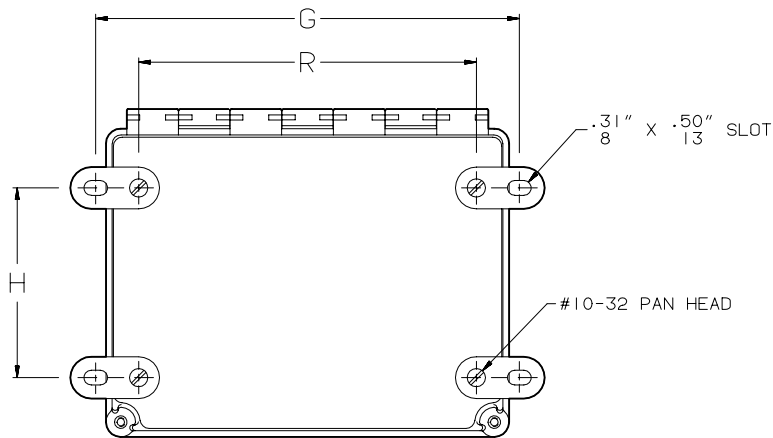
**Top View with Cover Removed**



**Side View**

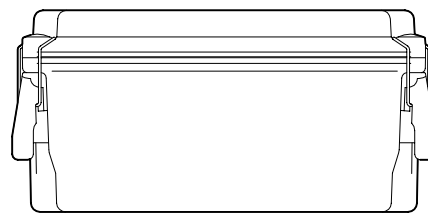


**End View**



**Bottom View**

NOTES: 1. Panel screws are #10-32 pan head.  
2. Mounting brackets are .16 in. (4mm) thick.



**Side View**  
Quick-Release Cover Enclosure

C2567

**Accessories** Fiberglass Hinged Cover Type 4X Enclosures



**Threaded Panel Extenders**

are made of zinc-plated steel and designed to raise the panel mounting surface. Extenders attach to threaded internal pads. Male and female thread size is #10. Each kit contains 4 extenders.

Catalog Number	Length
APE050	0.50 (13)
APE100	1.00 (25)

Millimeter dimensions in ( ); do not convert metric dimensions to inch.



**Quick-Release Latch Kit**

Two fiberglass reinforced gray polyester latches with monel bail and screw hole plugs are included in each package. Supplied as standard with Bulletin A48 quick-release enclosures, this kit will convert Bulletin A48 screw cover enclosures to quick-release without modification. No tools needed to install. Padlocking provision is included.

Catalog Number
AL48



**Swing-Out Panel Kit**

is designed to provide an attractive, yet cost-effective, solution for installing front-mounted panels in Bulletin A48 and Bulletin HJ enclosures. No drilling required.

Catalog Number	Fits Enclosure A x B
A6SPK6C	6.00 x 6.00
A8SPK6C	8.00 x 6.00
A10SPK8C	10.00 x 8.00
A12SPK10C	12.00 x 10.00
A14SPK12C	14.00 x 12.00
A16SPK14C	16.00 x 14.00
A18SPK16C	18.00 x 16.00

# Fiberglass Type 4X Overlapping Door Enclosures



## Application

The HJ series of fiberglass enclosures includes an overlapping door and the integral mounting brackets often required in petrochemical, water treatment, and other corrosive environments. Choices of door style and door fasteners and a wide range of sizes provide application flexibility.

## Construction

- Made from corrosion-resistant hot compression molded fiberglass reinforced polyester
- Overlapping solid, clear, or window door available in both raised and flat designs
- Door fastening options include screws or padlockable Type 316 stainless steel latches
- Type 304 stainless steel piano hinges on hinged models
- Integral mounting brackets
- Fifty-one models available in seven different sizes
- Capable of withstanding continuous temperatures from -58°F (-50°C) up to 302°F (150°C)
- Enclosures protect equipment and operators from indirect electrical contact

## Finish

Fiberglass material is RAL 7035 light gray inside and out.

## Industry Standards

UL 508A, 508, File Number E54315: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
NEMA/VEEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
CSA File Number LR-36508: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Panels  
Terminal Kit Assembly  
Ventilators  
A48 Swing Out Panel Kit

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## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, or for information about modifications outside the scope of the Modification Services program, contact your local Hoffman sales representative.

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NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes Overlapping Door Type 4X Fiberglass Enclosures**

Catalog Number	Door Style	Door Fasteners	A		B		C		* Panel Catalog Number		
			in.	mm	in.	mm	in.	mm	in.	mm	mm
RHJ1008HW	Raised solid	Hinged, Two captive screws	11.31	287	9.31	276	6.93	176	A10P8	8.75 x 6.88	222 x 102
RHJ1210HW	Raised solid	Hinged, Two captive screws	13.30	338	11.29	211	7.10	180	A12P10	10.75 x 8.88	273 x 226
RHJ1412HW	Raised, solid	Hinged, Two captive screws	15.32	389	13.30	338	8.19	208	A14P12	12.75 x 10.88	324 x 276
RHJ1614HW	Raised solid	Hinged, Two captive screws	17.31	440	15.30	289	8.19	208	A16P14	14.75 x 12.88	375 x 327
RHJ1008HWPL1	Raised solid	Hinged, One latch	11.31	287	9.31	276	6.93	176	A10P8	8.75 x 6.88	222 x 102
RHJ1210HWPL2	Raised solid	Hinged, Two latches	13.30	338	11.29	211	7.10	180	A12P10	10.75 x 8.88	273 x 226
RHJ1412HWPL2	Raised solid	Hinged, Two latches	15.32	389	13.30	338	8.19	208	A14P12	12.75 x 10.88	324 x 276
RHJ1614HWPL2	Raised solid	Hinged Two latches	17.31	440	15.30	289	8.19	208	A16P14	14.75 x 12.88	375 x 327
RHJ1008W	Raised solid	Four captive screws	11.31	287	9.31	276	6.93	176	A10P8	8.75 x 6.88	222 x 102
RHJ1210W	Raised solid	Four captive screws	13.30	338	11.29	211	7.10	180	A12P10	10.75 x 8.88	273 x 226
RHJ1412W	Raised solid	Four captive screws	15.32	389	13.30	338	8.19	208	A14P12	12.75 x 10.88	324 x 276
RHJ1614W	Raised solid	Four captive screws	17.31	440	15.30	289	8.19	208	A16P14	14.75 x 12.88	375 x 327
HJ606HW	Flat solid	Hinged, Two captive screws	7.31	186	7.31	186	4.96	126	A6P6	4.88 x 4.88	124 x 124
HJ806HW	Flat solid	Hinged, Two captive screws	9.30	236	7.31	186	4.98	126	A8P6	6.75 x 4.88	171 x 124
HJ1008HW	Flat solid	Hinged, Two captive screws	11.31	287	9.31	276	5.43	138	A10P8	8.75 x 6.88	222 x 102
HJ1210HW	Flat solid	Hinged, Two captive screws	13.30	338	11.29	211	5.58	142	A12P10	10.75 x 8.88	273 x 226
HJ1412HW	Flat solid	Hinged, Two captive screws	15.32	389	13.30	338	6.70	170	A14P12	12.75 x 10.88	324 x 276
HJ1614HW	Flat solid	Hinged, Two captive screws	17.31	440	15.30	289	6.70	170	A16P14	14.75 x 12.88	375 x 327
HJ1816HW	Flat solid	Hinged, Two captive screws	19.31	490	17.31	440	9.58	243	A18P16	16.75 x 14.88	375 x 378
HJ606HWPL1	Flat solid	Hinged, One latch	7.31	186	7.31	186	4.96	126	A6P6	4.88 x 4.88	124 x 124
HJ806HWPL1	Flat solid	Hinged, One latch	9.30	276	7.31	186	4.98	126	A8P6	6.75 x 4.88	171 x 124
HJ1008HWPL1	Flat solid	Hinged, One latch	11.31	287	9.31	276	5.43	138	A10P8	8.75 x 6.88	222 x 102
HJ1210HWPL2	Flat solid	Hinged, Two latches	13.30	338	11.29	211	5.58	142	A12P10	10.75 x 8.88	273 x 226
HJ1412HWPL2	Flat solid	Hinged, Two latches	15.32	389	13.30	338	6.70	170	A14P12	12.75 x 10.88	324 x 276
HJ1614HWPL2	Flat solid	Hinged, Two latches	17.31	440	15.30	289	6.70	170	A16P14	14.75 x 12.88	375 x 327
HJ1816HWPL2	Flat solid	Hinged, Two latches	19.31	490	17.31	440	9.58	243	A18P16	16.75 x 14.88	375 x 378
HJ606W	Flat solid	Four captive screws	7.31	186	7.31	186	4.96	126	A6P6	4.88 x 4.88	124 x 124
HJ806W	Flat solid	Four captive screws	9.30	276	7.31	186	4.98	126	A8P6	6.75 x 4.88	171 x 124
HJ1008W	Flat solid	Four captive screws	11.31	287	9.31	276	5.43	138	A10P8	8.75 x 6.88	222 x 102
HJ1210W	Flat solid	Four captive screws	13.30	338	11.29	211	5.58	142	A12P10	10.75 x 8.88	273 x 226
HJ1412W	Flat solid	Four captive screws	15.32	389	13.30	338	6.70	170	A14P12	12.75 x 10.88	324 x 276
HJ1614W	Flat solid	Four captive screws	17.31	440	15.30	289	6.70	170	A16P14	14.75 x 12.88	375 x 327
HJ1816W	Flat solid	Four captive screws	19.31	490	17.31	440	9.58	243	A18P16	16.75 x 14.88	375 x 378
CHJ606HWPL1	Flat clear	Hinged, One latch	7.31	186	7.31	186	4.96	126	A6P6	4.88 x 4.88	124 x 124
CHJ806HWPL1	Flat clear	Hinged, One latch	9.30	276	7.31	186	4.98	126	A8P6	6.75 x 4.88	171 x 124
CHJ1008HWPL1	Flat clear	Hinged, One latch	11.31	287	9.31	276	5.43	138	A10P8	8.75 x 6.88	222 x 102
CHJ1210HWPL2	Flat clear	Hinged, Two latches	13.30	338	11.29	211	5.58	142	A12P10	10.75 x 8.88	273 x 226
CHJ1412HWPL2	Flat clear	Hinged, Two latches	15.32	389	13.30	338	6.70	170	A14P12	12.75 x 10.88	324 x 276
CHJ1614HWPL2	Flat clear	Hinged, Two latches	17.31	440	15.30	289	6.70	170	A16P14	14.75 x 12.88	375 x 327
CHJ1816HWPL2	Flat clear	Hinged, Two latches	19.31	490	17.31	440	9.58	243	A18P16	16.75 x 14.88	375 x 378
HJB606HWPL1	Flat window	Hinged, One latch	7.31	186	7.31	186	4.96	126	A6P6	4.88 x 4.88	124 x 124
HJB806HWPL1	Flat window	Hinged, One latch	9.30	276	7.31	186	4.98	126	A8P6	6.75 x 4.88	171 x 124
HJB1008HWPL1	Flat window	Hinged, One latch	11.31	287	9.31	276	5.43	138	A10P8	8.75 x 6.88	222 x 102
HJB1210HWPL2	Flat window	Hinged, Two latches	13.30	338	11.29	211	5.58	142	A12P10	10.75 x 8.88	273 x 226
HJB1412HWPL2	Flat window	Hinged, Two latches	15.32	389	13.30	338	6.70	170	A14P12	12.75 x 10.88	324 x 276
HJB1614HWPL2	Flat window	Hinged, Two latches	17.31	440	15.30	289	6.70	170	A16P14	14.75 x 12.88	375 x 327
HJB1816HWPL2	Flat window	Hinged, Two latches	19.31	490	17.31	440	9.58	243	A18P16	16.75 x 14.88	375 x 378
RHJB1008HWPL1	Raised window	Hinged, One latch	11.31	287	9.31	276	6.93	176	A10P8	8.75 x 6.88	222 x 102
RHJB1210HWPL2	Raised window	Hinged, Two latches	13.30	338	11.29	211	7.10	180	A12P10	10.75 x 8.88	273 x 226
RHJB1412HWPL2	Raised window	Hinged, Two latches	15.32	389	13.30	338	8.19	208	A14P12	12.75 x 10.88	324 x 276
RHJB1614HWPL2	Raised window	Hinged, Two latches	17.31	440	15.30	289	8.19	208	A16P14	14.75 x 12.88	375 x 327

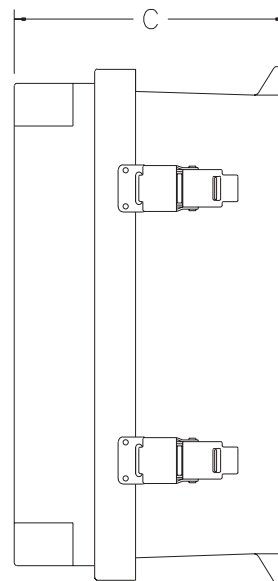
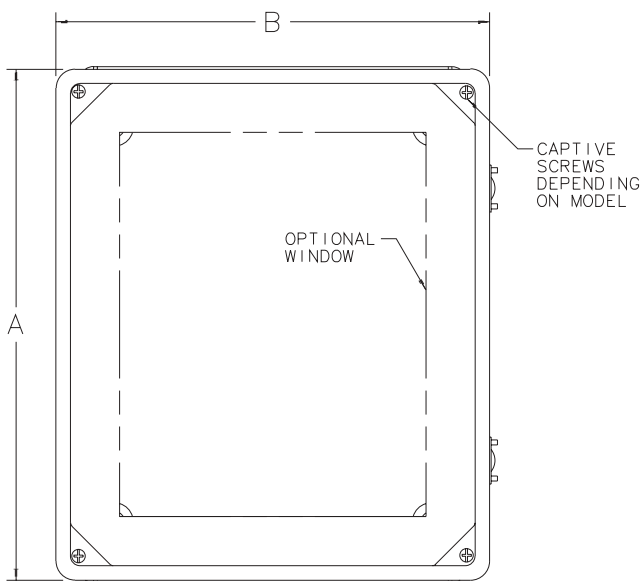
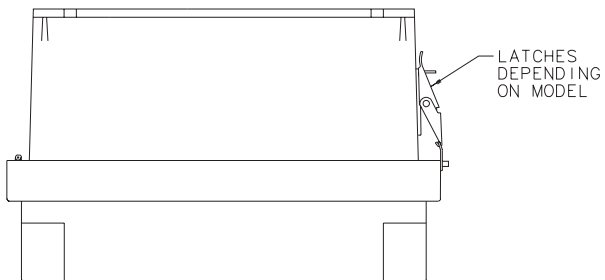
\* Panels must be ordered separately.



A Pentair Company

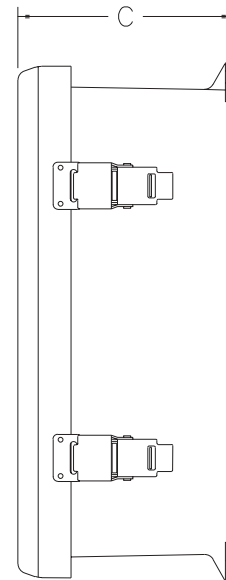
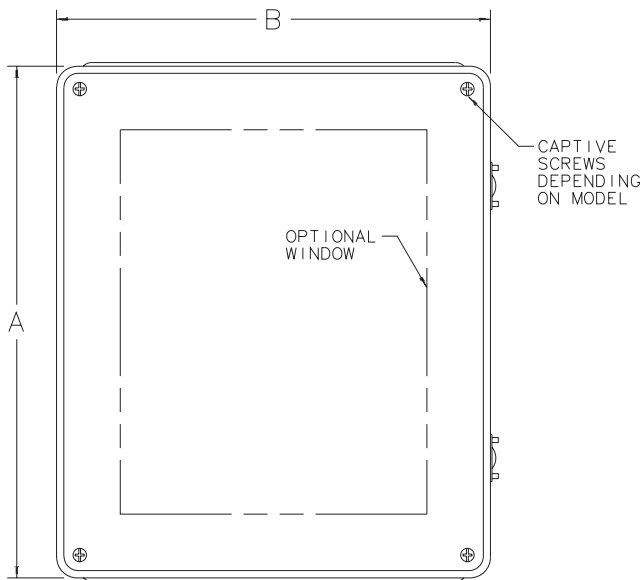
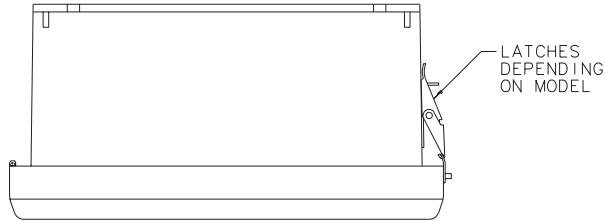
# Fiberglass Type 4X Overlapping Door Enclosures

## ■ Raised Door Enclosures



87575745

■ Solid Door Enclosures



87575746

# ULTRX® Type 4X Fiberglass Enclosures



## Application

This stylized world-class enclosure is a highly effective corrosion-resistant housing for electrical and electronic controls. It provides outstanding protection against atmospheric and marine corrosion in indoor or outdoor settings, including petro-chemical plants, water treatment facilities, pulp and paper processing, and electroplating plants. A window cover enclosure is also available, providing easy visual inspection of interior components.

## Construction

- Molded fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties, including high-impact resistance

- Fiberglass is easily punched, drilled, filed, or sawed
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Enclosure may be rotated 180 degrees for left and right hinging
- Molded-in drip shields are standard with each enclosure
- Impact-resistant polycarbonate window is permanently bonded in place
- Fiberglass mounting brackets and stainless steel attachment screws are provided with each enclosure
- Door opens 180 degrees
- Replaceable breakaway hinges
- Patented Type 316 stainless steel quarter-turn latch. Optional keylocking or padlocking handle available
- Molded-in DIN bosses
- Molded bosses on door provide additional mounting provisions
- Integral mounting rails provide infinite panel adjustment front to back
- Optional data pocket is high-impact thermoplastic

## Finish/Color

Exterior surface painted light gray acrylic enamel for enhanced UV protection. Optional steel panels are white; aluminum and composite panels are also available.

## Industry Standards

UL 508A, 508, File No. E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 Enclosure flammability rating per UL 508  
 CSA File No. LR42186: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13

IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Data Pocket
- DIN Type Rails
- Electric Heater
- Frameless Window Kit
- Lighting Packages
- Panels (see table)
- Rack Angles
- Stainless Steel Window Kit
- Terminal Block Kit Assembly
- Touch-Up Paint (ATPFG)
- Wiring Duct
- ULTRX® Accessories

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Subpanels
- Holes and cutouts in body, doors, subpanels
- Environmental control (louvers, fans, filters)
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

Patent: 5,481,889 (U.S.)

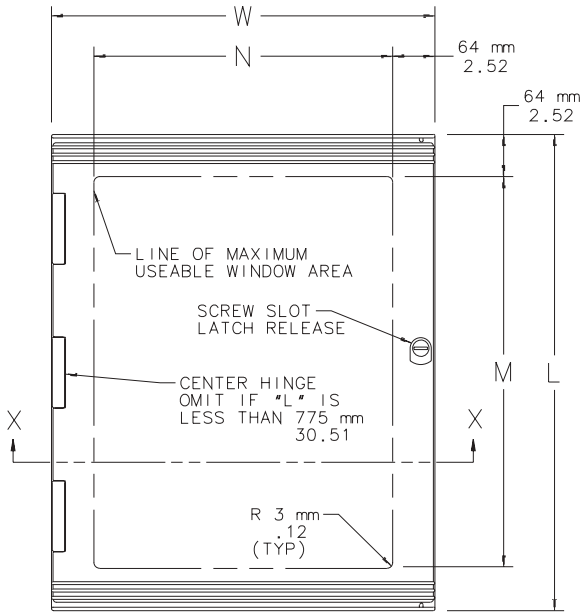
## Standard Sizes ULTRX® Type 4X Fiberglass Enclosures

Enclosure Catalog Number	Window Door	External Dimensions L x W	Internal Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	† Window Size										
							M x N	F	J	K	P	Q	R	S	T		
UU504020	UU504020W	512.6 x 412.5 (20.18 x 16.24)	495.6 x 395.5 x 219.5 (19.51 x 15.57 x 8.64)	A20P16	431.8 x 330.2 (17.00 x 13.00)	358.9 x 458.7 (14.13 x 18.06)	385.8 x 285.8 (15.19 x 11.25)	185.7 (7.31)	296.7 (11.68)	18.5 (0.73)	63.5 (2.50)	62.5 (2.46)	57.9 (2.28)	285.7 (11.25)	387.3 (15.25)		
UU606020	UU606020W	625.1 x 612.4 (24.61 x 24.11)	608.1 x 595.4 x 219.5 (23.94 x 23.44 x 8.64)	A24P24	533.4 x 533.4 (21.00 x 21.00)	559.1 x 571.5 (22.01 x 22.50)	498.4 x 485.6 (19.62 x 19.12)	185.7 (7.31)	499.9 (19.68)	20.6 (0.81)	61.7 (2.43)	68.1 (2.68)	56.1 (2.21)	488.9 (19.25)	488.9 (19.25)		
UU605025	UU605025W	625.1 x 513.1 (24.61 x 20.20)	608.1 x 496.1 x 270.0 (23.94 x 19.53 x 10.63)	A24P20	533.4 x 431.8 (21.00 x 17.00)	456.9 x 570.0 (17.99 x 22.44)	498.1 x 385.8 (19.61 x 15.19)	238.5 (9.31)	400.0 (15.75)	20.6 (0.81)	63.0 (2.48)	68.1 (2.68)	56.1 (2.21)	387.1 (15.24)	488.9 (19.25)		
UU504030	UU504030W	513.1 x 412.0 (20.20 x 16.22)	496.1 x 395.0 x 321.1 (19.53 x 15.55 x 12.64)	A20P16	431.8 x 330.2 (17.00 x 13.00)	355.1 x 454.9 (13.98 x 17.91)	385.8 x 285.8 (15.19 x 11.25)	287.3 (11.31)	300.0 (11.81)	18.5 (0.73)	63.5 (2.50)	63.0 (2.48)	56.1 (2.21)	286.0 (11.26)	387.3 (15.25)		
UU606030	UU606030W	625.1 x 612.4 (24.61 x 24.11)	608.1 x 595.4 x 321.1 (23.94 x 23.44 x 12.64)	A24P24	533.4 x 533.4 (21.00 x 21.00)	555.2 x 567.9 (21.86 x 22.36)	498.4 x 485.6 (19.62 x 19.12)	287.3 (11.31)	499.9 (19.68)	20.6 (0.81)	61.7 (2.43)	68.1 (2.68)	56.1 (2.21)	488.9 (19.25)	488.9 (19.25)		
UU756030	UU756030W	775.0 x 612.4 (30.51 x 24.11)	757.9 x 595.4 x 321.1 (29.84 x 23.44 x 12.64)	A30P24	685.8 x 533.4 (27.00 x 21.00)	555.2 x 717.8 (21.86 x 28.26)	648.2 x 485.6 (25.52 x 19.12)	287.3 (11.31)	499.9 (19.68)	20.6 (0.81)	61.7 (2.43)	66.8 (2.63)	56.1 (2.21)	488.9 (19.25)	641.3 (25.25)		
UU1008030	UU1008030W	1024.9 x 825.0 (40.35 x 32.48)	1008.1 x 808.0 x 321.1 (39.69 x 31.81 x 12.64)	A40P30	940.1 x 737.1 (37.01 x 29.02)	768.1 x 968.0 (30.24 x 38.11)	897.9 x 698.2 (35.35 x 27.49)	287.3 (11.31)	700.0 (27.56)	23.1 (0.91)	67.1 (2.64)	65.0 (2.56)	62.0 (2.44)	691.9 (27.24)	895.1 (35.24)		
UU606040	UU606040W	625.1 x 612.4 (24.61 x 24.11)	608.1 x 595.4 x 421.1 (23.94 x 23.44 x 16.57)	A24P24	533.4 x 533.4 (21.00 x 21.00)	555.2 x 567.9 (21.86 x 22.36)	498.4 x 485.6 (19.62 x 19.12)	387.3 (15.25)	499.9 (19.68)	20.6 (0.81)	61.7 (2.43)	68.1 (2.68)	56.1 (2.21)	488.9 (19.25)	488.9 (19.25)		
UU756040	UU756040W	775.0 x 612.4 (30.51 x 24.11)	757.9 x 595.4 x 421.1 (29.84 x 23.44 x 16.57)	A30P24	685.8 x 533.4 (27.00 x 21.00)	555.2 x 717.8 (21.86 x 28.26)	648.2 x 485.6 (25.52 x 19.12)	387.3 (15.25)	499.9 (19.68)	20.6 (0.81)	61.7 (2.43)	66.8 (2.63)	56.1 (2.21)	488.9 (19.25)	641.3 (25.25)		

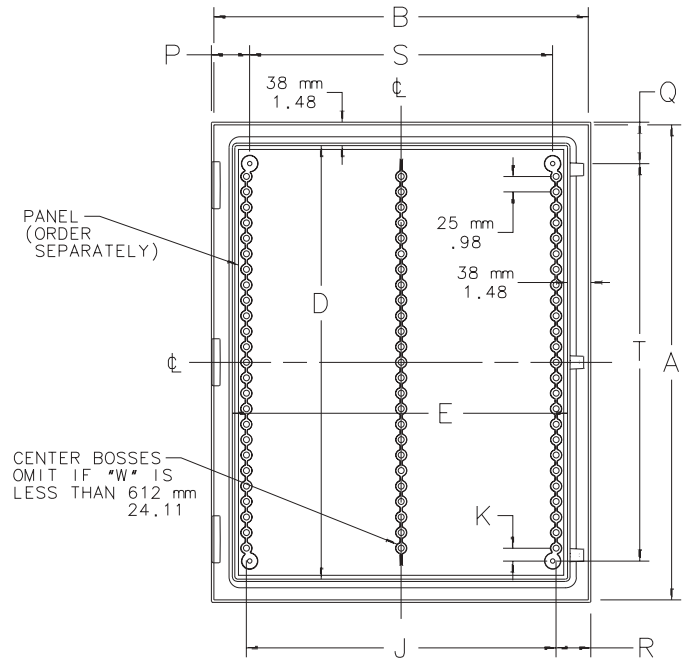
Inch dimensions in ( ).

† Window door enclosure only.

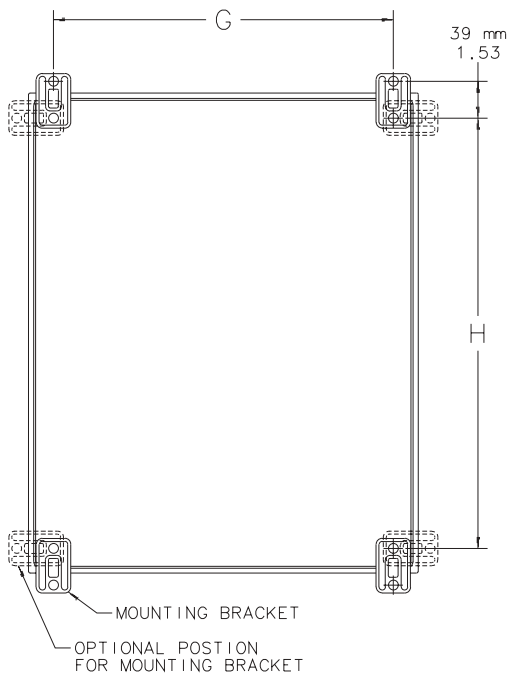
\* Panels must be ordered separately.



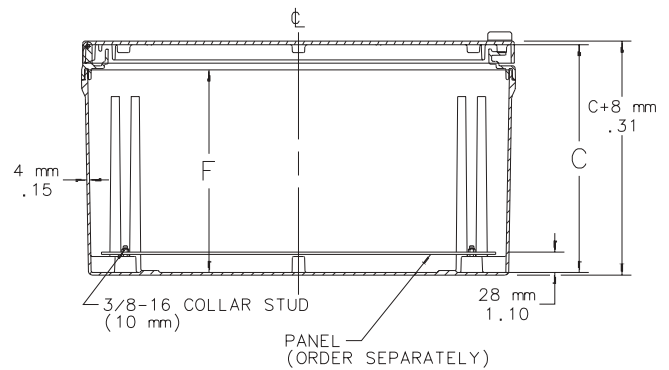
**Front View**



**Front View with Door Removed**



**Back View**

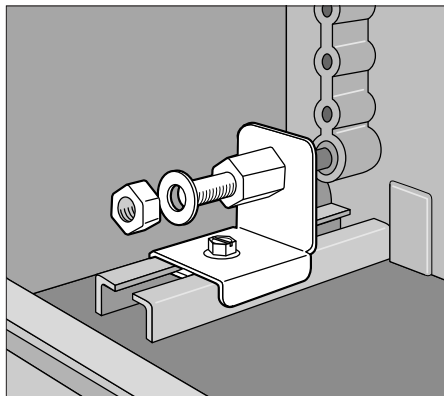


**SECTION X-X**

C2553



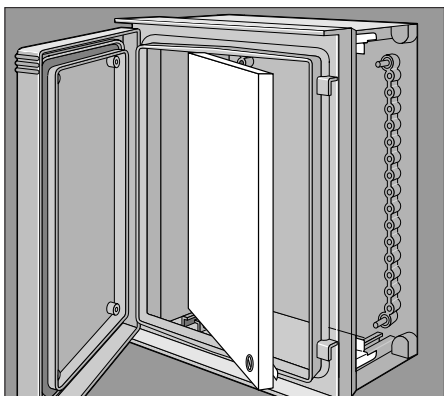
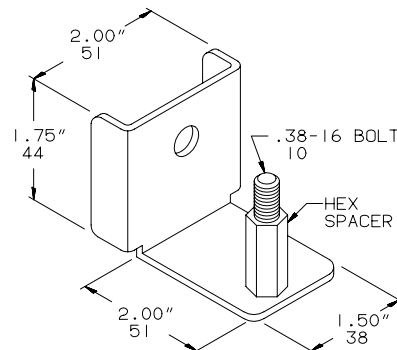
# ULTRX® Type 4X Fiberglass Enclosures Accessories



### Panel Bracket Kit

permits panel adjustment from front to rear. Fits all ULTRX® sizes. Mounts on integrally molded body rail. Brackets are zinc chromate steel. All mounting hardware is included.

Catalog Number	Description	Pkg. Qty.
UUPB	ULTRX® Panel Bracket Kit	4



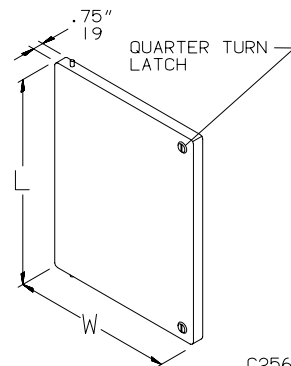
### Swing-Out Panel (14 or 16 gauge)

installs front-mounted panels in ULTRX® fiberglass enclosures. Developed primarily to complement window door units, the front mounted swing panel is suited for any application that requires a display of gauges, dials, or any type of control equipment monitor. Easy installation; no drilling required. Fully adjustable front to rear. Panel and mounting hardware included.

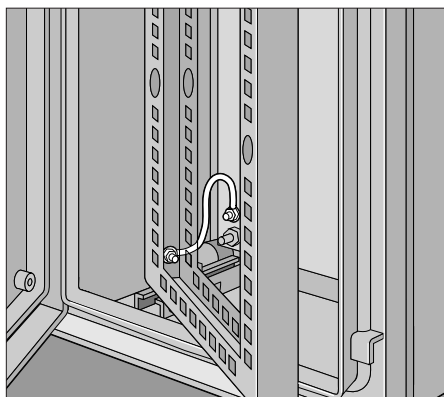
Catalog Number	Fits Enclosure		
	A x B	L	W
UU5040SP	496 x 395	432.0 (17.01)	330.0 (12.99)
* UU6060SPR	608 x 608	532.9 (20.98)	532.9 (20.98)
UU6050SP	608 x 496	535.9 (21.10)	431.8 (17.00)
UU6060SP	608 x 595	532.9 (20.98)	532.9 (20.98)
UU7560SP	758 x 595	686.0 (27.01)	532.9 (20.98)
* UU7560SPR	758 x 595	686.0 (27.01)	532.9 (20.98)
UU10080SP	1008 x 808	934.7 (36.80)	736.6 (29.00)

Inch dimensions in ( ).

\* For use in 421mm (16.57 in.) deep enclosures.



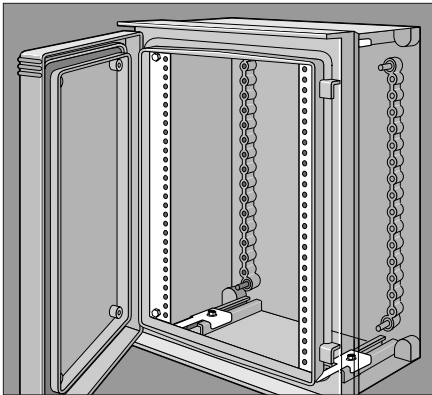
C2562



### Grounding Device

provides a means of attaching a grounding conductor to an ULTRX® swing-out panel or swing-out frame. All installation hardware and instructions are included.

Catalog Number
UUGK

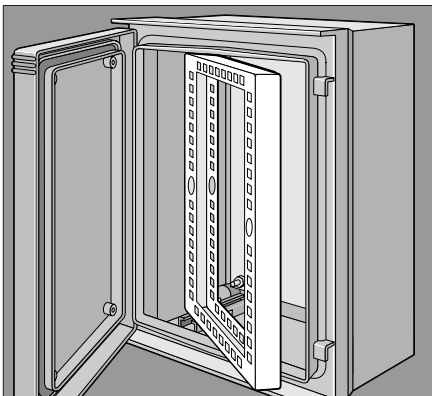
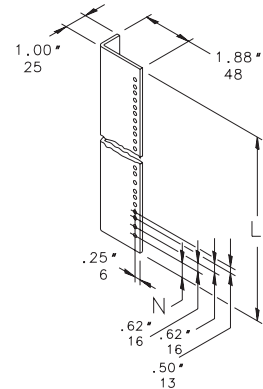


### Rack Angles (Type RA)

Pairs of full-length rack mounting angles are available for mounting 19-inch (483mm) rack-mounted equipment. Type RA angles are 14 gauge steel with mounting holes .281-inch (7mm) 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 zinc plated. Mounting hardware is furnished.

Catalog Number	Fits A x B	L	N	Units	Pkg. Qty.
<b>UURA6060</b>	610 x 610 (24.00 x 24.00)	552 (21.75)	10 (.38)	12	2
<b>UURA7560</b>	762 x 610 (30.00 x 24.00)	705 (27.75)	19 (.75)	15	2

Inch dimensions in ( ).



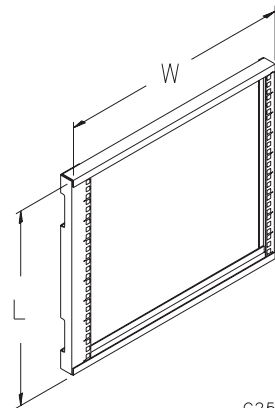
### Swing Frame

furnishes 19-inch rack mounting capabilities with U-Style (Type RA) mounting hole pattern. Quarter-turn latch has 100° swing. Adjustable mounting provision. 14 gauge zinc-plated steel. Mounting hardware included.

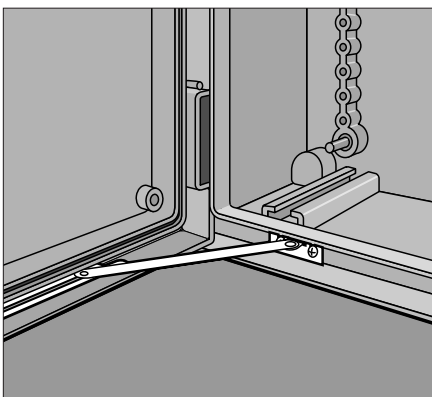
Swing frame maintains enclosure rating if properly installed in a Hoffman enclosure.

Catalog Number	Fits A x B	L	W	Units
<b>UU6060SF</b>	610 x 610 (24.00 x 24.00)	540 (21.25)	535 (21.08)	11
<b>UU7560SF</b>	762 x 610 (30.00 x 24.00)	687 (27.05)	535 (21.08)	14

Inch dimensions in ( ).



C2563

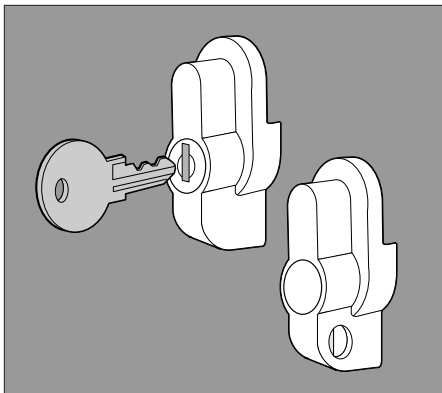


### Door Stop Kit

limits door to 120-degree opening. Field installable on all sizes of ULTRX® enclosures. Type 304 stainless steel construction.

Catalog Number
<b>UUDS</b>

# ULTRX® Type 4X Fiberglass Enclosures Accessories

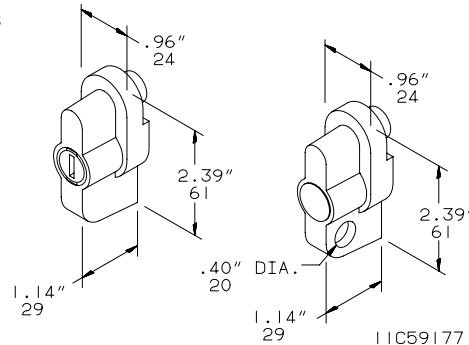


## Keylock Kit and Padlock Kit

Keylock Kit or pushbutton style Padlock Kit is easily inserted in latch hole to prevent unauthorized personnel from gaining access to enclosure contents. Each kit is fully assembled for easy installation in the field. Type 316 stainless steel construction.

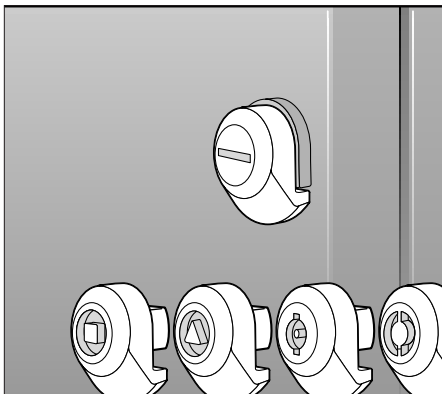
- a Handles maintain UL 508A, 508 Type 3, Type 4, Type 4X, and Type 12 when properly installed on a Hoffman enclosure.
- b Set up for 1/4 inch or 3/8 inch padlock.

Catalog Number	
UUHKL	Keylock Kit
UUHPL a, b	Padlock Kit



Keylock Kit

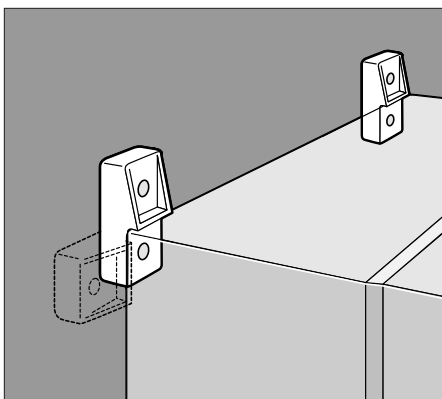
Padlock Kit



## Key Insert

Inserts can be substituted for the standard quarter-turn latch. Inserts are Type 316 stainless steel.

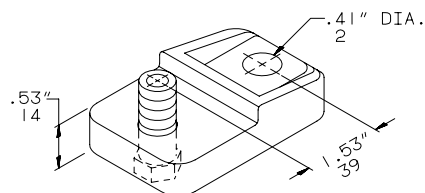
Catalog Number	
UUL3DB	Double-bit 3mm
UULSC	Screw driver slot

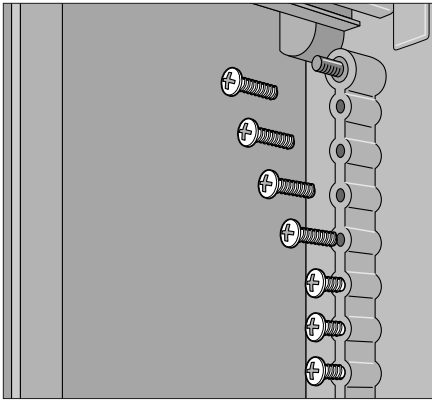


## Mounting Bracket Kit

Kit is field installable. Corrosion-resistant fiberglass material is rated Type 4X. Type 316 stainless steel mounting hardware is included. Four mounting brackets per kit. Maintains UL 508A, 508 Type 3, 3R, 4, 4X, and 13 ratings.

Catalog Number	
UUMF	





### Self-Tapping Screws

Zinc-plated screws (1/4"-15x.88) are designed to mount panels and accessories to DIN bosses on back of enclosure. Ten screws per package.

Catalog Number
UUMH1



### Screw Insert Kit

Brass threaded inserts (10-32) with zinc-plated screws. Used on door bosses and DIN bosses. Four inserts and four screws per kit.

Catalog Number
UUMH2



## Application

Designed to insulate and house electrical and electronic controls, instruments, and components in highly corrosive environments indoors or outdoors. Ideal for use in petro-chemical plants, sewage plants, and electroplating plants.

## Construction

- Fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Seams are sealed, no holes or knockouts
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Fiberglass material is easily punched, drilled, filed, or sawed
- Hinges and quick-release latches are fiberglass-reinforced polyester
- Hasp for padlocking is Type 316L stainless steel
- Data pocket is high-impact thermoplastic
- Copper flashed steel collar studs for mounting optional panels and terminal block kits

## Finish/Color

Optional steel panels are white. Optional unpainted aluminum and composite panels available in select sizes. Fiberglass enclosure is gray inside and out.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508  
CSA File No. LR42186: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Frameless Window Kit  
Panels (see table)  
Stainless Steel Window Kit  
Terminal Block Kit Assembly

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## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Subpanels
- Environmental control (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

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NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes Fiberglass Type 4X Wall-Mount Enclosures**

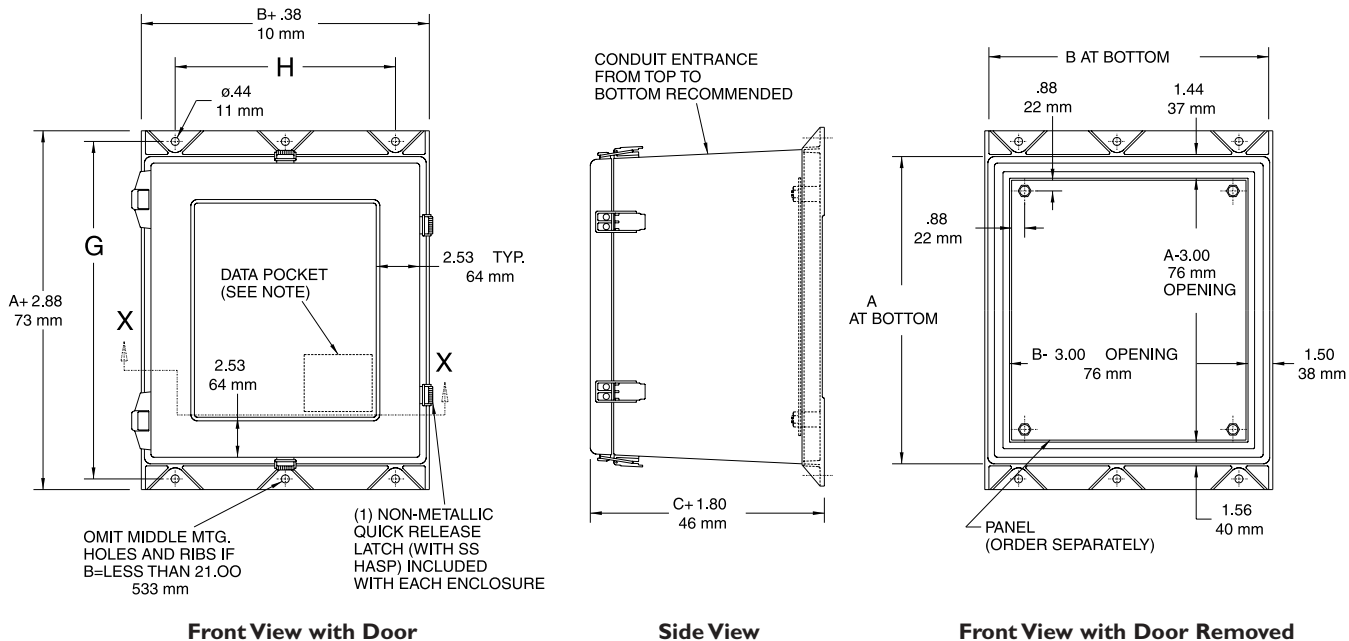
Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size	Mounting G x H	Number of Latches	Additional "C" Dimensions Available		
A20H1606GQRLP	20.19 x 16.25 x 6.00 (513 x 413 x 152)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	4	none		
A20H2006GQRLP	20.19 x 20.25 x 6.00 (513 x 514 x 152)	A20P20	17.00 x 17.00 (432 x 432)	21.81 x 14.00 (554 x 356)	4	none		
A24H2006GQRLP	24.25 x 20.25 x 6.00 (616 x 514 x 152)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	none		
A30H2406GQRLP	30.25 x 24.25 x 6.00 (768 x 616 x 152)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	none		
A20H1608GQRLP	20.19 x 16.25 x 8.00 (513 x 413 x 203)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	4	none		
A20H2008GQRLP	20.19 x 20.25 x 8.00 (513 x 514 x 203)	A20P20	17.00 x 17.00 (432 x 432)	21.81 x 14.00 (554 x 356)	4	none		
A24H2008GQRLP	24.25 x 20.25 x 8.00 (616 x 514 x 203)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	none		
A24H2408GQRLP	24.19 x 24.19 x 8.00 (614 x 614 x 203)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	4	none		
A30H2408GQRLP	30.25 x 24.25 x 8.00 (768 x 616 x 203)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	none		
A36H3008GQRLP	36.25 x 30.25 x 8.00 (921 x 768 x 203)	A36P30	33.00 x 27.00 (838 x 686)	37.58 x 24.00 (955 x 610)	5	none		
A20H1610GQRLP	20.19 x 16.25 x 10.00 (513 x 413 x 254)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	4	none		
A20H2010GQRLP	20.19 x 20.25 x 10.00 (513 x 514 x 254)	A20P20	17.00 x 17.00 (432 x 432)	21.81 x 14.00 (554 x 356)	4	none		
A24H2010GQRLP	24.25 x 20.25 x 10.00 (616 x 514 x 254)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	none		
A30H2410GQRLP	30.25 x 24.25 x 10.00 (768 x 616 x 254)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	none		
A20H1612GQRLP	20.19 x 16.25 x 12.00 (513 x 413 x 305)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	4	none		
A20H2012GQRLP	20.19 x 20.25 x 12.00 (513 x 514 x 305)	A20P20	17.00 x 17.00 (432 x 432)	21.81 x 14.00 (554 x 356)	4	none		
A24H2012GQRLP	24.25 x 20.25 x 12.00 (616 x 514 x 305)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	11.00 (279)		
A24H2412GQRLP	24.19 x 24.19 x 12.00 (614 x 614 x 305)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	4	none		
A30H2412GQRLP	30.25 x 24.25 x 12.00 (768 x 616 x 305)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	none		
A36H3012GQRLP	36.25 x 30.25 x 12.00 (921 x 768 x 305)	A36P30	33.00 x 27.00 (838 x 686)	37.58 x 24.00 (955 x 610)	5	none		
A36H3612GQRLP	36.25 x 36.25 x 12.00 (921 x 921 x 305)	A36P36	33.00 x 33.00 (838 x 838)	37.58 x 30.00 (955 x 762)	7	none		
A48H3612GQRLP	48.25 x 36.25 x 12.00 (1226 x 921 x 305)	A48P36	45.00 x 33.00 (1143 x 838)	49.58 x 30.00 (1259 x 762)	8	none		
A60H3612GQRLP	60.25 x 36.25 x 12.00 (1530 x 921 x 305)	A60P36	57.00 x 33.00 (1448 x 838)	61.58 x 30.00 (1564 x 762)	8	none		
A24H2016GQRLP	24.25 x 20.25 x 16.00 (616 x 514 x 406)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	14.00 (356)		
A24H2416GQRLP	24.19 x 24.19 x 16.00 (614 x 614 x 406)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	4	6.00 (152)    10.00 (254)    14.00 (356)		
A30H2416GQRLP	30.25 x 24.25 x 16.00 (768 x 616 x 406)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	none		
A48H3616GQRLP	48.25 x 36.25 x 16.00 (1226 x 921 x 406)	A48P36	45.00 x 33.00 (1143 x 838)	49.65 x 30.00 (1261 x 762)	8	none		
A60H3616GQRLP	60.25 x 36.25 x 16.00 (1530 x 921 x 406)	A60P36	57.00 x 33.00 (1448 x 838)	61.65 x 30.00 (1566 x 762)	8	none		
A20H1620GQRLP	20.19 x 16.25 x 20.00 (513 x 413 x 508)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	4	14.00 (356)    16.00 (406)    18.00 (457)		
A20H2020GQRLP	20.19 x 20.25 x 20.00 (513 x 514 x 508)	A20P20	17.00 x 17.00 (432 x 432)	21.81 x 14.00 (554 x 356)	4	14.00 (356)    16.00 (406)    18.00 (457)		
A24H2020GQRLP	24.25 x 20.25 x 20.00 (616 x 514 x 508)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	14.00 (356)    16.00 (406)    18.00 (457)		
A24H2420GQRLP	24.19 x 24.19 x 20.00 (614 x 614 x 508)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	4	18.00 (457)		
A30H2420GQRLP	30.25 x 24.25 x 20.00 (768 x 616 x 508)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	14.00 (356)    16.00 (406)    18.00 (457)		
A36H3020GQRLP	36.25 x 30.25 x 20.00 (921 x 768 x 508)	A36P30	33.00 x 27.00 (838 x 686)	37.72 x 24.00 (958 x 610)	5	none		
A48H3620GQRLP	48.25 x 36.25 x 20.00 (1226 x 921 x 508)	A48P36	45.00 x 33.00 (1143 x 838)	49.72 x 30.00 (1263 x 762)	8	none		
A24H2024GQRLP	24.25 x 20.25 x 24.00 (616 x 514 x 610)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	4	22.00 (559)		
A24H2424GQRLP	24.19 x 24.19 x 24.00 (614 x 614 x 610)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	4	22.00 (559)		
A30H2424GQRLP	30.25 x 24.25 x 24.00 (768 x 616 x 610)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	5	22.00 (559)		

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

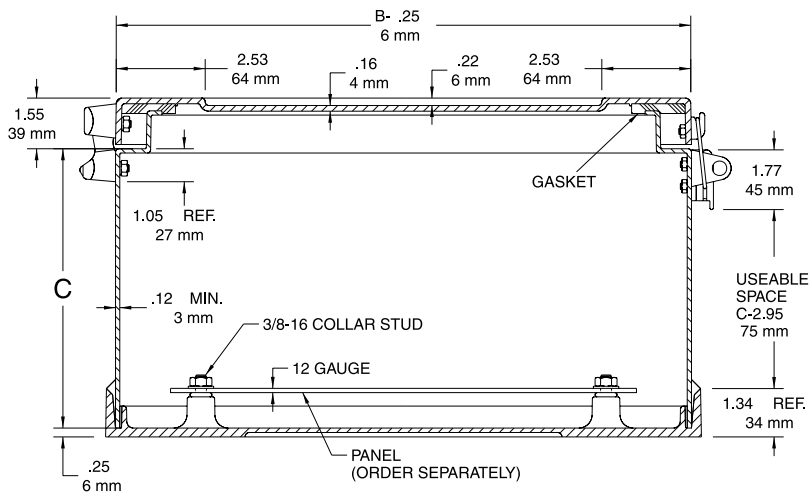
\* Panels must be ordered separately.

# Fiberglass Type 4X Wall-Mount Enclosures

## Enclosures 36 x 30 or smaller

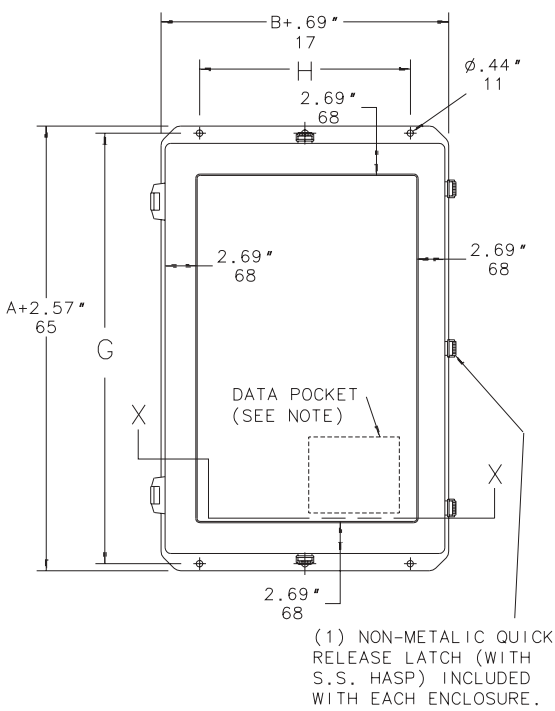


NOTE: Enclosure A36H3020GQRLP still is manufactured according to the drawing on page 6.135.

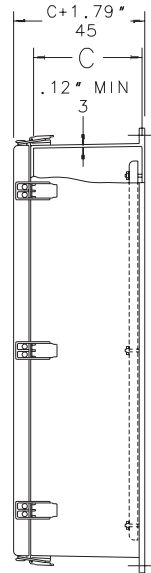


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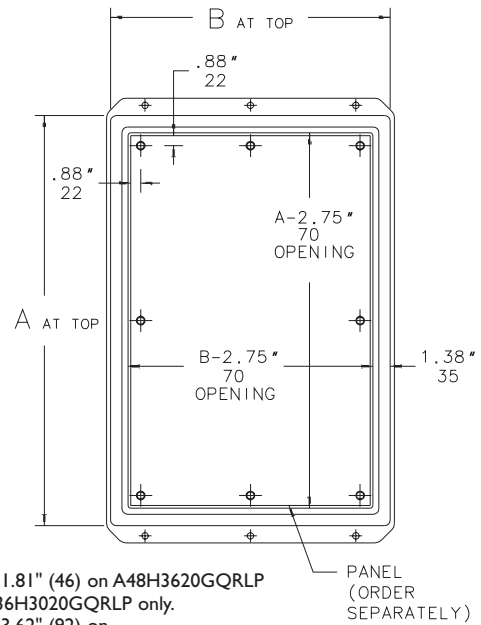
■ Enclosures 36 x 36 or larger



Front View with Door



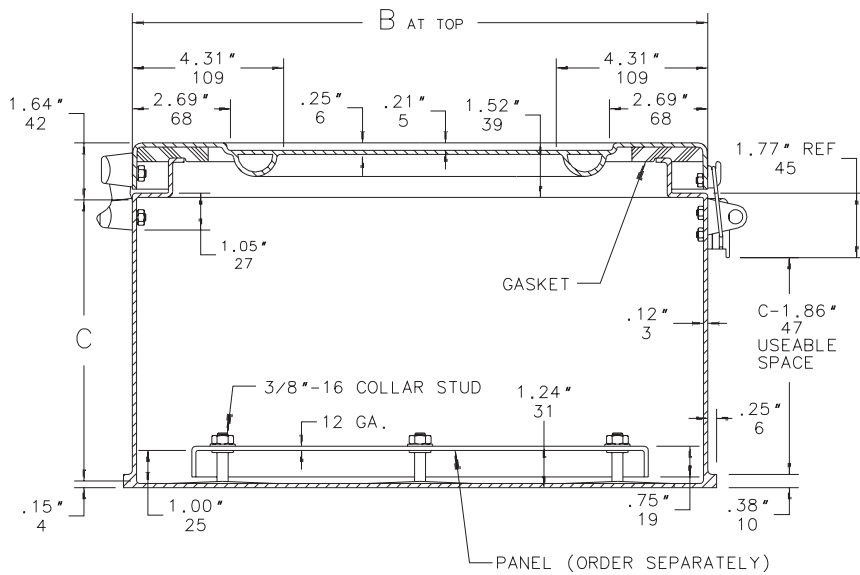
Side View



Front View with Door Removed

\*1.38" (35) = 1.81" (46) on A48H3620GQRLP and A36H3020GQRLP only.  
 \*2.75" (70) = 3.62" (92) on A48H3620GQRLP and A36H3020GQRLP only.

NOTE: Large data pocket provision when A=30.00 in. (762mm) or more. Data pocket is furnished but not installed. Large data pocket is 12.00 x 12.00 in. (305 x 305mm); small data pocket is 6.00 x 6.00 in. (152 x 152mm).



SECTION X-X

C2552



# Fiberglass Type 4X Enclosures for Flange-Mounted Disconnects



**NOTE:** The disconnect handle shown in the picture is for illustration purposes only. Disconnect handles are not sold with the enclosure.

## Application

Designed to insulate and house electrical and electronic controls, instruments, and components in highly corrosive environments indoors or outdoors. Ideal for use in petro-chemical plants, sewage plants, and electroplating plants.

Designed to house the following:

### ◆ Allen-Bradley

- Bulletin 1494V disconnect switches with flange-mounted variable depth operating mechanisms and Bulletin 1494V flange-mounted variable depth operating mechanisms for circuit breakers.
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers.

*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-mounted variable depth operating mechanisms for disconnect switches and circuit breakers.

### ◆ Cutler-Hammer/Westinghouse

Type C361 flange-mounted variable depth operating mechanisms with disconnect switches and Type C371 flange-mounted variable depth operating mechanisms for circuit breakers. Flex Shaft™ handle operators for circuit breakers.

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

- ◆ **Siemens ITE Max-Flex™** flange-mounted variable depth operating handle for disconnect switches and circuit breakers as well as some fixed depth operators for disconnect switches.

- ◆ **Square D** Class 9422 disconnect switches with flange-mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted variable depth operating

mechanisms or cable mechanisms for circuit breakers.

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

## Construction

- Fiberglass-reinforced material has excellent temperature and chemical resistance qualities and exhibits outstanding physical properties
- Seams are sealed, no holes or knockouts
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Fiberglass material is easily drilled, filed, or sawed
- Hinges are fiberglass-reinforced polyester
- Doors are secured with Type 304 stainless steel slotted quarter-turn latches
- Data pocket is high-impact thermoplastic
- Copper flashed steel collar studs for mounting optional panels and terminal block kits
- Holes provided in body for mounting disconnect operating handle and operating mechanism
- Internal grounding provisions for quarter-turn latches

## Finish/Color

Optional steel panels are white. Optional unpainted aluminum and composite panels available in select sizes. Fiberglass enclosure is gray inside and out.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 Enclosure flammability rating per UL 508 cUL CSA-C22.2 No 94, File No. E61997: Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 NEMA/EEMAC Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
 IEC 60529, IP66  
 Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

Frameless Window Kit  
 Panels (see table)  
 Stainless Steel Window Kit  
 Terminal Block Kit Assembly  
 Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Subpanels
- Environmental control (louvers, fans, filters)
- Windows
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com).

To order, contact your local Hoffman sales representative.

**NOTE:** For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

## Important

### Furnished with enclosure:

1. Bracket affixed to door for attaching disconnect door catch (interlock)
2. Instructions to locate and install disconnect switches, circuit breakers, and operating mechanisms

*Consult the Technical Information section of the Specifier's Guide Volume 20 for wire bend information and [hoffmanonline.com](http://hoffmanonline.com) for disconnect manufacturer information. Disconnect switch (or circuit breakers), operating handle, and operating mechanism are not furnished with enclosure.*

**Standard Sizes Fiberglass Type 4X Enclosures for Flange-Mounted Disconnects**

Enclosure Catalog Number	Enclosure Size A x B x C	* Panel Catalog Number	Panel Size	Mounting G x H	Number of Latches	Additional "C" Dimensions Available
A20HS1610GQRLP	20.19 x 16.25 x 10.00 (513 x 413 x 254)	A20P16	17.00 x 13.00 (432 x 330)	21.81 x 10.00 (554 x 254)	2	none
A24HS2008GQRLP	24.25 x 20.25 x 8.00 (616 x 514 x 203)	A24P20	21.00 x 17.00 (533 x 432)	25.86 x 14.00 (657 x 356)	2	none
A24HS2408GQRLP	24.19 x 24.19 x 8.00 (614 x 614 x 203)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	2	none
A24HS2412GQRLP	24.19 x 24.19 x 12.00 (614 x 614 x 305)	A24P24	21.00 x 21.00 (533 x 533)	25.81 x 18.00 (656 x 457)	2	none
A30HS2412GQRLP	30.25 x 24.25 x 12.00 (768 x 616 x 305)	A30P24	27.00 x 21.00 (686 x 533)	31.95 x 18.00 (812 x 457)	2	none
A36HS3012GQRLP	36.25 x 30.25 x 12.00 (921 x 768 x 305)	A36P30	33.00 x 27.00 (838 x 686)	37.58 x 24.00 (955 x 610)	4	none
A48HS3612GQRLP	48.25 x 36.25 x 12.00 (1226 x 921 x 305)	A48P36	45.00 x 33.00 (1143 x 838)	49.58 x 30.00 (1259 x 762)	5	none
A60HS3612GQRLP	60.25 x 36.25 x 12.00 (1530 x 921 x 305)	A60P36	57.00 x 33.00 (1448 x 838)	61.58 x 30.00 (1564 x 762)	5	none

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.  
\* Panels must be ordered separately. See General Accessories.

**Space Occupied by Disconnect**

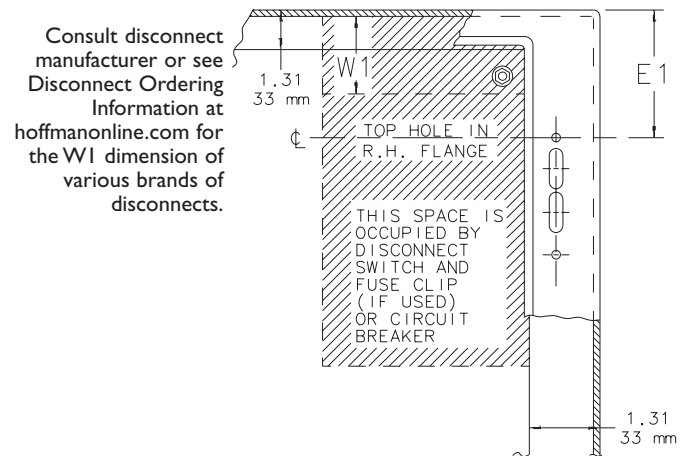
NOTE: EI = 8.62 (219) when A<30.00 (768) and C = 8.00 (203), 10.00 (254), or 12.00 (305)  
EI = 11.62 (295) when A>30.00 (768) and C = 12.00 (305)  
WI = Wiring Space. See Appendix A, Technical Information, for wire bend space.

Disconnects will occupy space on panel shown in detail at right. Wiring space WI is available when disconnect is installed in the enclosure.

Refer to **National Electrical Code® 2002** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

**NOTE:**

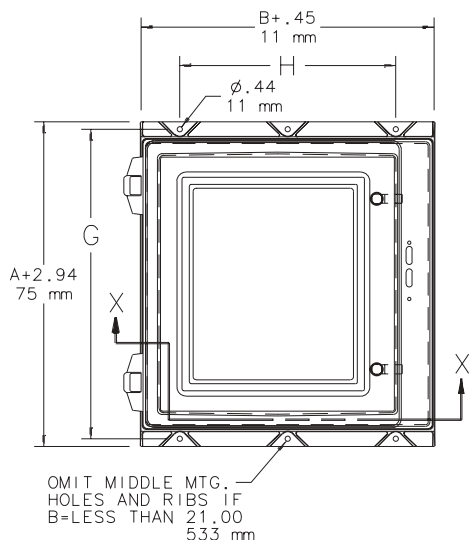
Be sure to match the disconnect device you are using with the correct enclosure size.



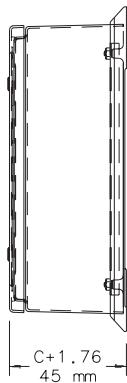
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# Fiberglass Type 4X Enclosures for Flange-Mounted Disconnects

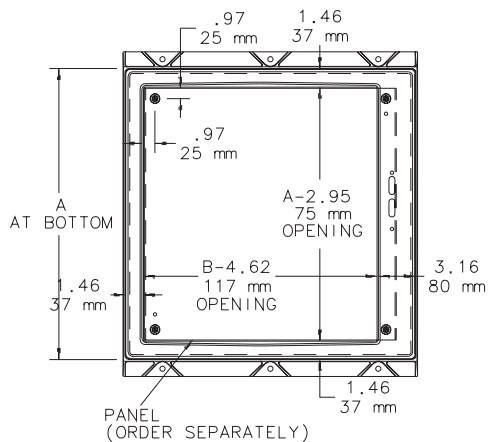
■ Enclosures 30 x 24 or smaller



Front View with Door

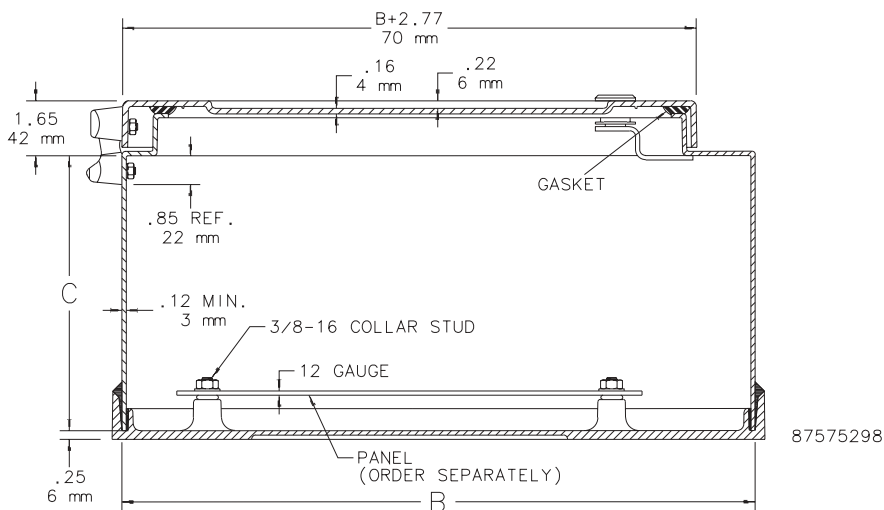


Side View



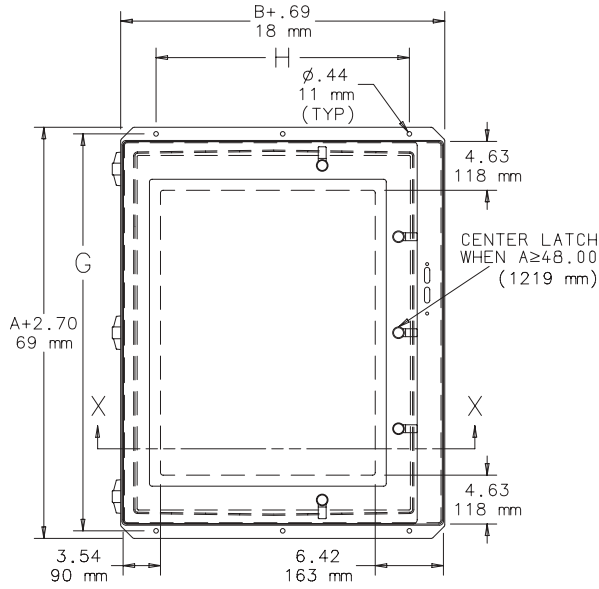
Front View with Door Removed

NOTE: Internal grounding provisions on the latch side(s) of the internal body flange.

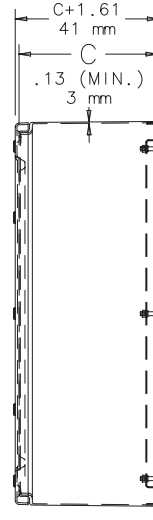


SECTION X-X

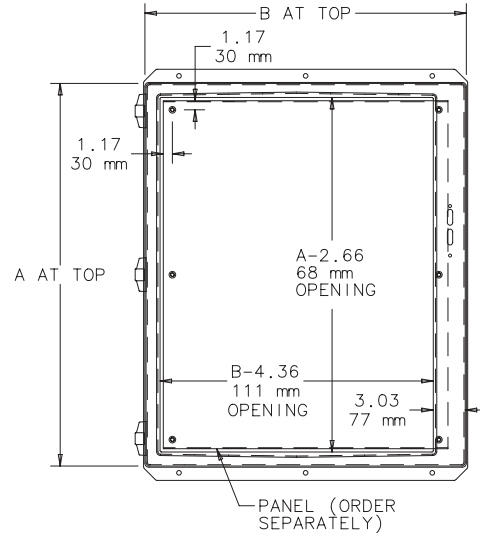
■ Enclosures 36 x 30 or larger



Front View with Door

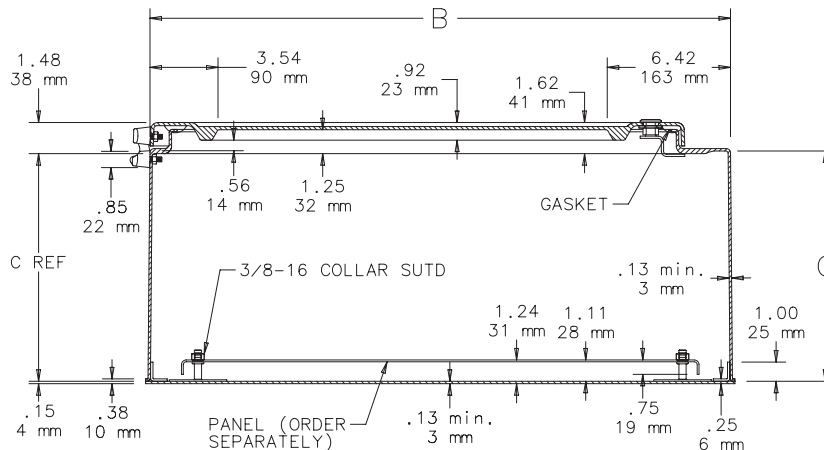


Side View



Front View with Door Removed

- NOTES: 1. Large data pocket provision when A=30.00 in. (762mm) or more. Data pocket is furnished but not installed. Large data pocket is 12.00 x 12.00 in. (305 x 305mm); small data pocket is 6.00 x 6.00 in. (152 x 152mm).  
2. Internal grounding provisions on the latch side(s) of the internal body flange.



SECTION X-X

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# Fiberglass Single-Door Free-Standing Type 4X Enclosures



## Application

Designed to insulate and house electrical and electronic controls, instruments, and components in highly corrosive environments indoors or outdoors. Ideal for use in oil refineries and chemical processing plants, waste water treatment, pulp and paper processing, and marine installations, electroplating plants, agricultural environments, and food or animal processing plants.

## Construction

- Fiberglass reinforced polyester material has excellent temperature and chemical resistance and exhibits outstanding physical properties
- Seams are sealed, no holes or knockouts
- Fiberglass material is easily punched, drilled, filed, or sawed
- Models have either a 3-point latching system with handle or stainless steel captivated door screws
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Painted steel top, bottom, and side reinforcements standard; stainless steel corner reinforcements optional
- Heavy duty Type 316 stainless steel lifting eyes
- Mounting channels attached horizontally to interior body sides at top, bottom, and center. Painted mounting channels standard; stainless steel optional
- Panels and rack mounting angles can be mounted anywhere along corner channels
- Hinges are corrosion-resistant fiberglass with no exposed metal parts
- Large high impact thermoplastic data pocket (12.00 x 12.00 in. or 305 x 305mm) is provided
- Molded-in drip shield
- Patented Type 316 stainless steel POWERGLIDE® handle on handle versions

## Finish/Color

Optional steel panels are white. Fiberglass enclosure is gray inside and out.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, and Type 12  
cUL C22.2 No. 14 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, and Type 12  
NEMA Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508  
E.I.A. RS-310-D  
IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Bottom Support Kit (required when using Casters or Floor-Stand Kit)
- Casters
- Electric Heater
- Floor Stand Kit
- Folding Shelf
- Free-Stand Accessories
- Panels (see table)
- Rack Panels
- Window Kit
- Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in subpanel
- Subpanels
- Environmental control (louvers, fans, filters)
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

Patent: 5,634,357 (U.S.)

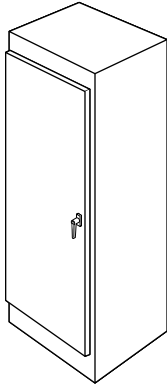
## Standard Size Fiberglass Single-Door Free-Standing Type 4X Enclosures

Enclosure Catalog Number	Description	Enclosure Size A x B x C	Estimated Shipping Wt.	
			Lbs.	Kg
A722525FGFS	Stainless steel captivated door screws	72.00 x 25.00 x 24.50 (1829 x 635 x 622)	215	97.5
A722525FGFS3PT	3-point latching system/Type 316 stainless steel handle	72.00 x 25.00 x 24.50 (1829 x 635 x 622)	215	97.5

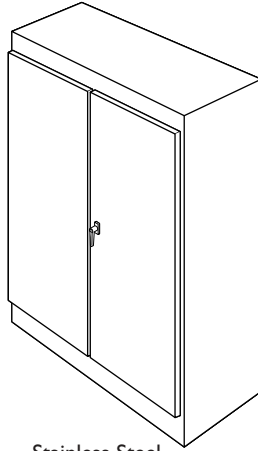
Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



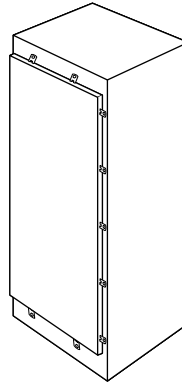
**Free-Standing Enclosure Group** **Accessory Selection Guide** See Chapter 12, General Accessories



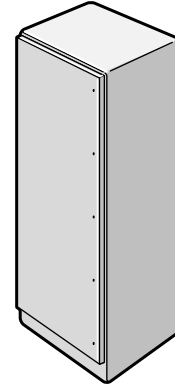
Stainless Steel  
Free-Standing Type 12  
Single-Door Single Access  
Enclosures



Stainless Steel  
Free-Standing Type 12  
Two-Door Dual Access  
Enclosures

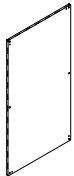


Stainless Steel  
Free-Standing Type 4X  
Enclosures

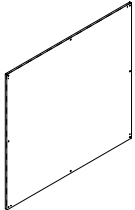


**Free-Standing  
Fiberglass Type 4X  
Enclosure**

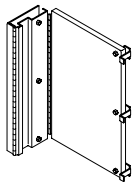
**Internal Accessories**



**Panel for  
Single-Door  
Enclosures**



**Panel for  
Two-Door  
Enclosures**



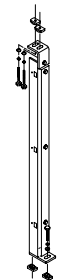
**Swing-Out  
Panel**



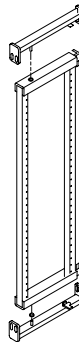
**Side-Mounted  
Panel**



**Heavy Duty  
Panel Supports**



**Center Panel  
Support**



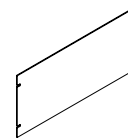
**Swing-Out  
Rack Mounting  
Frame**



**Rack Mounting  
Angles**



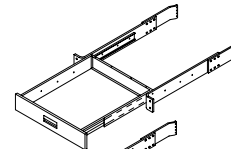
**Clip Nut  
Package**



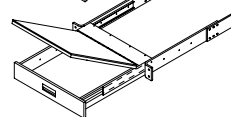
**Rack Panel**



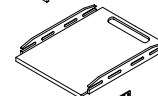
**Screw Package**



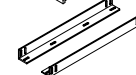
**Drawer**



**Writing Surface  
for Drawers**



**Shelf**



**Guides**

To select an accessory for an enclosure, see the Fiberglass Single-Door Accessory Selection tables on following pages.

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# Fiberglass Single-Door Free-Standing Type 4X Enclosures

## Accessory Selection Fiberglass Single-Door Free-Standing Type 4X Enclosures (For details see General Accessories)

Item	Catalog Number	Description	Size
Panels	A72P24F1	Full Panel	60.00 x 20.00 (1524 x 508)
	A72P24F2	Half Panel	30.88 x 20.00 (784 x 508)
Swing-Out Panels	A72SP24F3	Full Swing-Out Panel	60.00 x 18.19 (1524 x 462)
	A72SP24F4 <sup>b</sup>	Half Swing-Out Panel2	30.88 x 18.19 (784 x 462)
Side-Mounted Panels	A72SMP14	14.00 in. (356mm) Wide Panel	60.00 x 14.00 (1524 x 356)
	A72SMP20	20.00 in. (508mm) Wide Panel	60.00 x 20.00 (1524 x 508)
Clamping Nuts	APS1420CN	1/4-20 Clamping Nut (package of 20)	
	APS51618CN	5/16-18 Clamping Nut (package of 20)	
Casters	DMCKC	Set of four Casters	4.00 x 3.00 (102 x 76)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

<sup>a</sup> Requires Heavy Duty Panel Support.

<sup>b</sup> Fits in top or bottom half of enclosure.

<sup>c</sup> Requires Bottom Support, catalog number A17SUPPORT1.

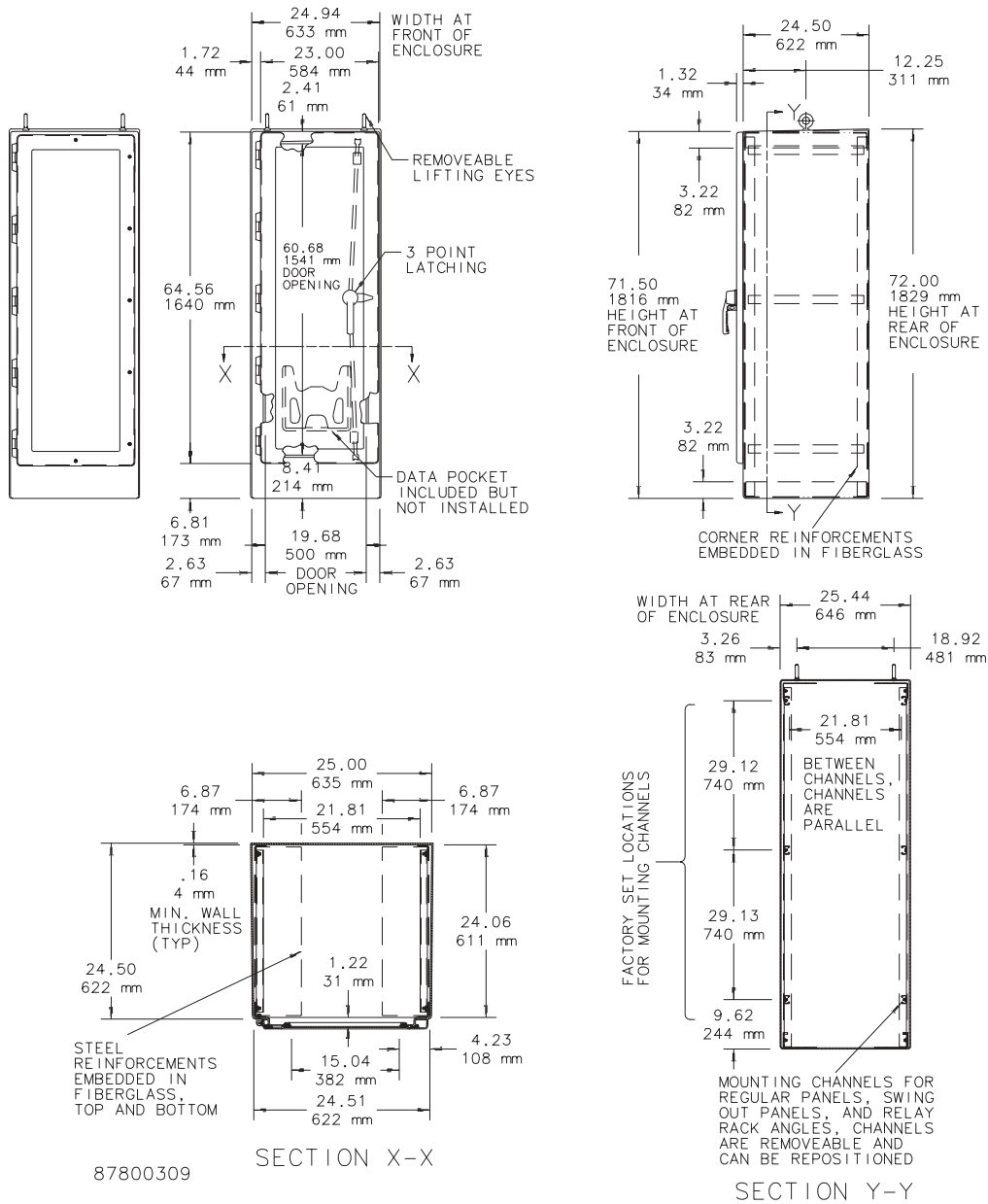
## Rack Mounting Accessory Selection Single-Door Free-Standing Type 4X Enclosures (For details see General Accessories)

Item	Catalog Number	Description	Size	Units <sup>a</sup>
Rack Mounting Angles (Type RP)	A72RP24F5	Two Full-Length Angles	Length = 61.25 (1556)	35
	A72RP24F6	Two Half-Length Angles	Length = 31.50 (800)	18
Rack Mounting Angles (Type RA)	A60RA19TH	Two Full-Length Angles	Length = 49.00 (1245)	28
	A72RA19TH	Two Full-Length Angles	Length = 61.25 (1556)	35
Clip Nut Package	AN1032	#10-32 Zinc-Plated (package of 20)	Fits U-Style (Type RA) Rack Mounting Angle	—
Rack Panels	<b>Aluminum</b>		<b>Steel</b>	
	A19RP1UAL	A19RP1U	19.00 x 1.75 (483 x 44)	1
	A19RP2UAL	A19RP2U	19.00 x 3.50 (483 x 133)	2
	A19RP3UAL	A19RP3U	19.00 x 5.25 (483 x 133)	3
	A19RP4UAL	A19RP4U	19.00 x 7.00 (483 x 178)	4
	A19RP5UAL	A19RP5U	19.00 x 8.75 (483 x 222)	5
	A19RP6UAL	A19RP6U	19.00 x 10.50 (483 x 267)	6
	A19RP7UAL	A19RP7U	19.00 x 12.25 (483 x 311)	7
	A19RP8UAL	A19RP8U	19.00 x 14.00 (483 x 356)	8
	—	A19RP9U	19.00 x 15.75 (483 x 400)	9
	—	A19RP10U	19.00 x 17.50 (483 x 445)	10
	A19RP11UAL	A19RP11U	19.00 x 19.25 (483 x 489)	11
A19RP12UAL	A19RP12U	19.00 x 21.00 (483 x 533)	12	
—	A19RP16U	19.00 x 28.00 (483 x 533)	16	
Screw Package	AS1032	#10-32 Truss Head Nickel-Plated (package of 20)		—
Drawers	A19DR2U <sup>b</sup>	Pull-Out Drawer	Depth = 3.47 (88)	2
	A19DR4U <sup>b</sup>	Pull-Out Drawer	Depth = 6.97 (177)	4
Writing Surface for Drawers	A19SWDR	Hinged Surface	Fits Drawer A19DR2U and A19DR4U	—
Shelves	A19SHP6	Pull-Out Shelf		2
	A19SH5	Fixed Shelf		1
	A19SH6	Fixed Shelf		1
Guides	AG1U6	Chassis Guide (set of two)		1

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.

<sup>a</sup> 1 unit = 1.75 inches (44mm)

<sup>b</sup> Requires two sets of Type RA Rack Mounting Angles for installation.



NOTE: Door opens 175°.





A Pentair Company

Rev. A June 2003

# Fiberglass Two-Door Free-Standing Type 4X Enclosures



## Application

Designed to insulate and house electrical and electronic controls, instruments, and components in highly corrosive environments indoors or outdoors. Ideal for use in oil refineries and chemical processing plants, waste water treatment, pulp and paper processing, and marine installations, electroplating plants, agricultural environments, and food or animal processing plants.

## Construction

- Fiberglass reinforced polyester material has excellent temperature and chemical resistance and exhibits outstanding physical properties
- Seams are sealed, no holes or knockouts
- Fiberglass material is easily punched, drilled, filed, or sawed
- Models have either a 3-point latching system with handle or stainless steel captivated door screws
- Patented Type 316 stainless steel POWERGLIDE® handle on handle versions
- Seamless foam-in-place gasket assures a watertight and dust-tight seal
- Painted steel top, bottom, and side reinforcements standard; stainless steel corner reinforcements optional
- Solid centerpost (not removable) has heavy-gauge stiffener
- Heavy duty Type 316 stainless steel lifting eyes
- Hinges are corrosion-resistant fiberglass with no exposed metal parts
- Stainless steel captivated door screws
- Large data pocket (12.00 x 12.00 in. or 305 x 305mm) is high-impact thermoplastic
- Molded-in drip shield

## Finish/Color

Fiberglass enclosure is gray inside and out. Steel panels are white.

## Industry Standards

UL 508A, 508 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, and Type 12  
cUL C22.2 No 14 File No. E61997: Type 3, Type 3R, Type 4, Type 4X, and Type 12  
NEMA Type 3, Type 3R, Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508 IEC 60529, IP66  
Meets Type 3RX requirements

## Accessories

See Chapter 12, General Accessories.

- Bottom Support Kit (required if using Casters, Floor-Stand Kit, or Unistrut Mounting Kit)
- Casters
- Electric Heater
- Floor-Stand Kit
- Folding Shelf
- Free-Stand Accessories
- Unistrut Mounting Kit (must also use Bottom Support Kit)
- Window Kit
- Wiring Duct

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Tapped holes, fasteners in subpanel
- Subpanels
- Environmental control (louvers, fans, filters)
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

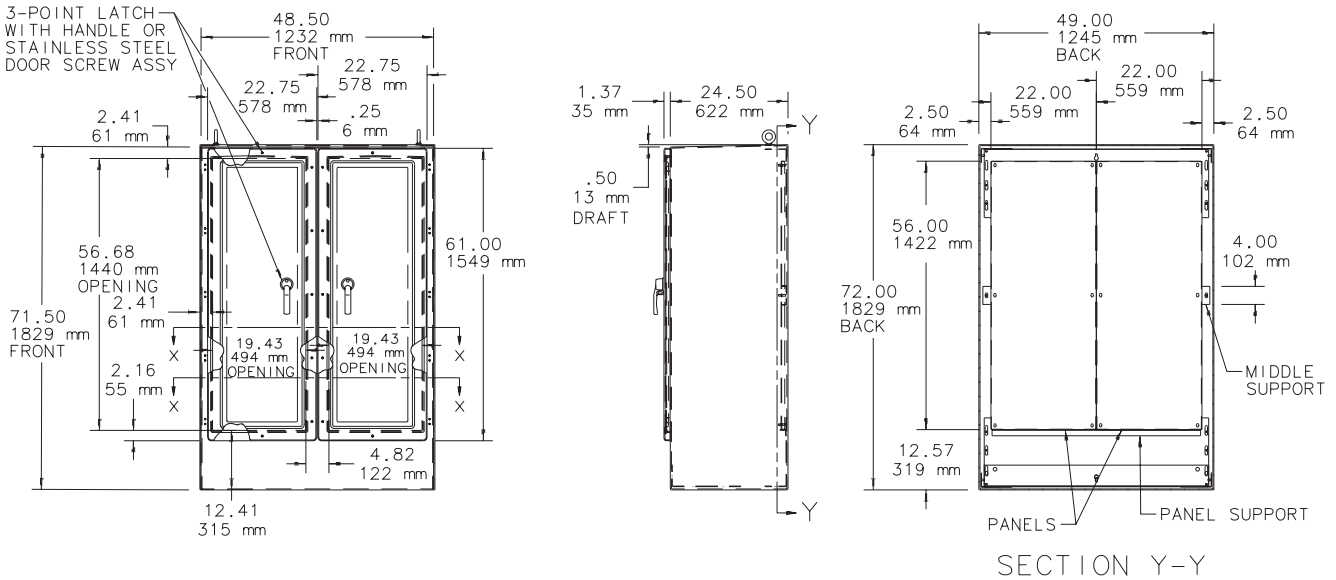
**NOTE:** For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

Patent: 5,634,357 (U.S.)

## Standard Size Fiberglass Two-Door Free-Standing Type 4X Enclosures

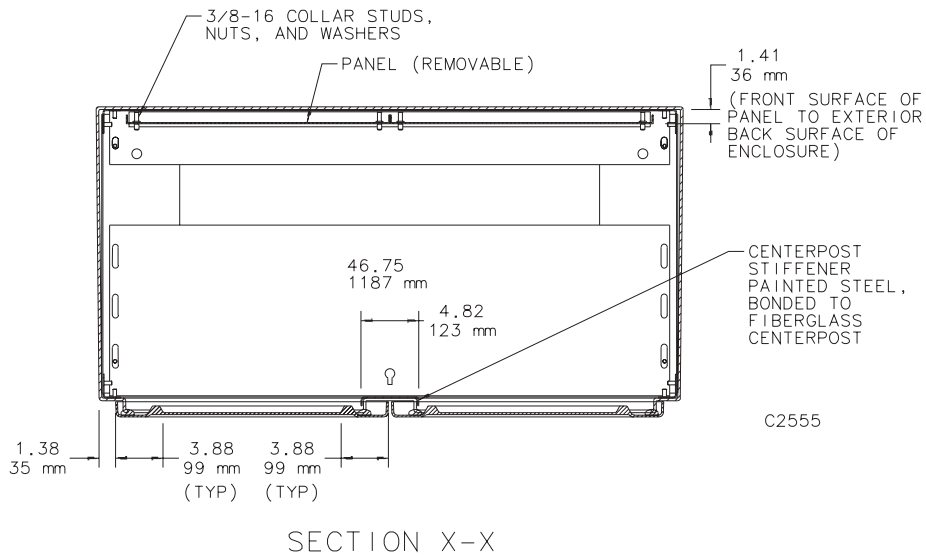
Enclosure Catalog Number	Enclosure Size A x B x C	Number of Panels	Panel Size
A724925FG	72.00 x 49.00 x 24.50 (1829 x 1245 x 622)	2	56.00 x 22.00 (1422 x 559)
A724925FGFS3PT	72.00 x 49.00 x 24.50 (1829 x 1245 x 622)	2	56.00 x 22.00 (1422 x 559)

Millimeter dimensions ( ) are for reference only; do not convert metric dimensions to inch.



NOTE: Section Y-Y shown with the optional Bottom Support Kit and Unistrut Mounting Kit accessories installed.

- NOTES: 1. Upper, middle and lower supports as well as centerpost stiffener are steel.  
2. Optional Bottom Support Kit required when installing Casters, Floor-Stand Kit, or Unistrut Mounting Kit.



# QLINE<sup>®</sup> D Polycarbonate Type 4X Pushbutton Enclosures



## Application

Contoured body with cover screws provides an attractive contemporary appearance. Enclosures are designed to insulate and house 30.5mm or 22.5mm pushbuttons in wet, dusty, and/or corrosive environments.

## Construction

- High-impact polycarbonate material is used for both body and cover
- Polycarbonate material is easily punched, drilled, filed, or sawed
- Straight side walls permit ganging of multiple enclosures
- Cross-point captivated cover screws are stainless steel
- Mounting holes molded directly adjacent cover screws
- Cover screws protected by removable caps that are both aesthetic and provide tamper resistance
- Molded internal pads for mounting optional panels, rails, or other components
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Screws provided for mounting optional panel
- Mounting hardware furnished

## Finish/Color

Optional panels are unpainted zinc plated steel. Polycarbonate enclosure material is RAL 7035 light gray inside and out.

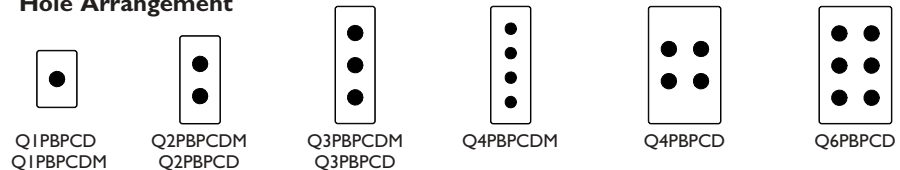
## Industry Standards

UL 508A, 508, File Number E61997: Type 4, Type 4X, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, and Type 12  
CSA File Number LR42186: Type 4, Type 4X, and Type 12  
Enclosure flammability rating per UL 508 IEC 60529, IP67

## Accessories

DIN Rails  
Hardware Kit  
Hinge Kit  
Mounting Bracket Kit

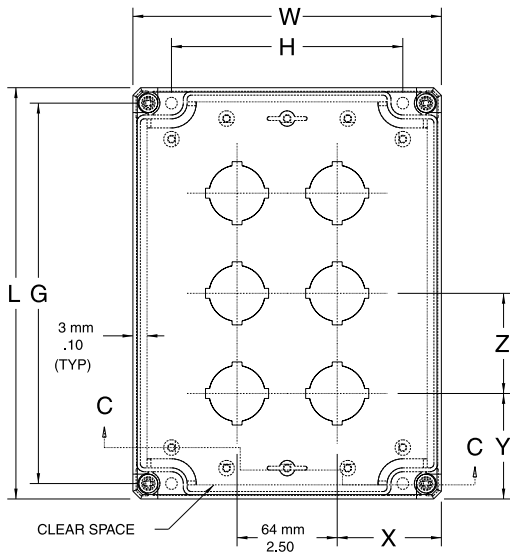
## Hole Arrangement



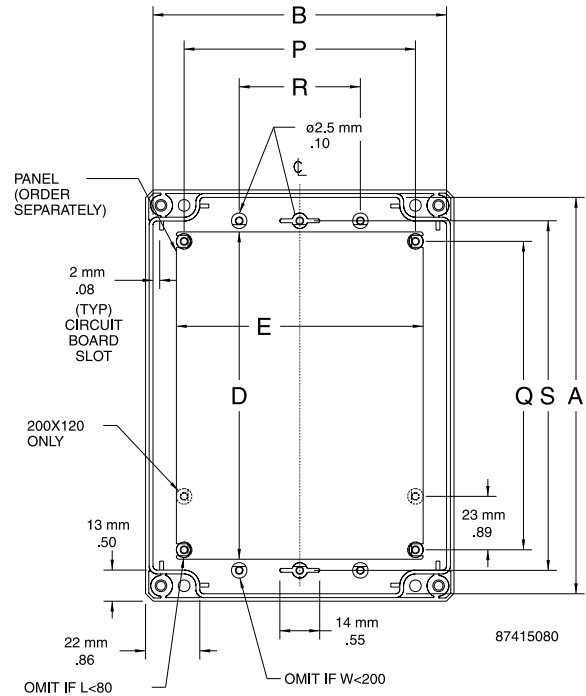
**Standard Sizes QLINE® D Polycarbonate Type 4X Pushbutton Enclosures**

Enclosure Catalog Number	External Dimensions L x W	Internal Dimensions A x B x C	Panel* Catalog Number	Panel Size D x E	Mounting G x H	F	J	P	Q	R	S	U	X	Y	Z	
Q1PBPCD	82 x 80 (3.23 x 3.15)	75 x 73 x 79 (2.95 x 2.87 x 3.11)	Q88PD	68 x 55 (2.68 x 2.17)	70 x 50 (2.76 x 1.97)	72 (2.83)	70 (2.76)	58 (2.28)	43.5 (1.71)	—	58 (2.28)	3 (0.12)	40 (1.57)	41 (1.61)	—	
—	Q2PBPCDM	120 x 80 (4.72 x 3.15)	113 x 73 x 79 (4.45 x 2.87 x 3.11)	Q128PD	91 x 65 (3.58 x 2.56)	108 x 50 (4.25 x 1.97)	72 (2.83)	70 (2.76)	58 (2.28)	81.5 (3.21)	—	96 (3.78)	3 (0.12)	40 (1.57)	36 (1.42)	48 (1.89)
Q2PBPCD	—	160 x 80 (6.30 x 3.15)	153 x 73 x 79 (6.02 x 2.87 x 3.11)	Q168PD	131 x 65 (5.16 x 2.56)	148 x 50 (5.83 x 1.97)	72 (2.83)	70 (2.76)	58 (2.28)	121.5 (4.78)	—	136 (5.35)	3 (0.12)	40 (1.57)	48 (1.89)	64 (2.52)
—	Q3PBPCDM	160 x 80 (6.30 x 3.15)	153 x 73 x 79 (6.02 x 2.87 x 3.11)	Q168PD	131 x 65 (5.16 x 2.56)	148 x 50 (5.83 x 1.97)	72 (2.83)	70 (2.76)	58 (2.28)	121.5 (4.78)	—	136 (5.35)	3 (0.12)	40 (1.57)	32 (1.26)	48 (1.89)
Q3PBPCD	—	200 x 120 (7.87 x 4.72)	193 x 113 x 79 (7.60 x 4.45 x 3.11)	Q2012PD	170 x 100 (6.69 x 3.94)	188 x 90 (7.40 x 3.54)	72 (2.83)	70 (2.76)	90 (3.54)	160 (6.30)	40 (1.57)	176 (6.93)	3 (0.12)	60 (2.36)	36 (1.42)	64 (2.52)
Q4PBPCD	—	200 x 120 (7.87 x 4.72)	193 x 113 x 79 (7.60 x 4.45 x 3.11)	Q2012PD	170 x 100 (6.69 x 3.94)	188 x 90 (7.40 x 3.54)	72 (2.83)	70 (2.76)	90 (3.54)	160 (6.30)	40 (1.57)	176 (6.93)	3 (0.12)	28 (1.10)	68 (2.68)	64 (2.52)
—	Q4PBPCDM	200 x 120 (7.87 x 4.72)	193 x 113 x 79 (7.60 x 4.45 x 3.11)	Q2012PD	170 x 100 (6.69 x 3.94)	188 x 90 (7.40 x 3.54)	72 (2.83)	70 (2.76)	90 (3.54)	160 (6.30)	40 (1.57)	176 (6.93)	3 (0.12)	60 (2.36)	28 (1.10)	48 (1.89)
Q6PBPCD	—	240 x 160 (9.45 x 6.30)	233 x 153 x 83.5 (9.17 x 6.02 x 3.29)	Q2416PD	211 x 148 (8.31 x 5.83)	228 x 130 (8.98 x 5.12)	77.5 (3.05)	75 (2.95)	138 (5.43)	201.5 (7.93)	75 (2.95)	215 (8.46)	3.5 (0.14)	48 (1.89)	56 (2.20)	64 (2.52)

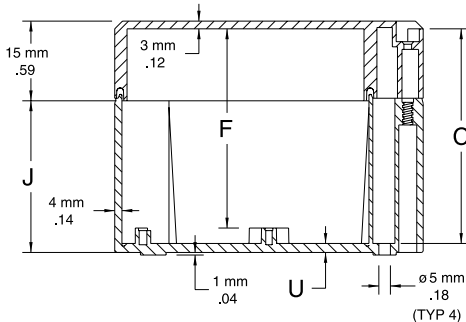
Inch dimensions in ( ).  
\* Panels must be ordered separately.



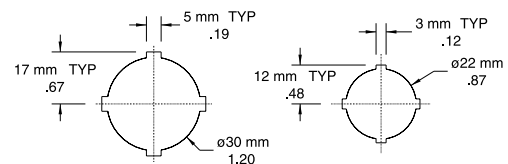
Top View



Top View with Cover Removed



SECTION C-C



30.5mm 4-way

22.5mm 4-way

# QLINE<sup>®</sup> D Polycarbonate and ABS Type 4X and Type 6 Enclosures



## Application

Designed for use as insulated electrical junction boxes, terminal wiring boxes, instrument housings, electrical control boxes, and push-button housings in wet, dusty, and/or corrosive environments that may also be subjected to occasional submersion.

The ABD series of enclosures provides the same features and similar physical properties as its polycarbonate counterpart, the PCD series of enclosures, but at a lower cost.

See Chapter 11, EMC Enclosures, for information on a related EMC-shielded product.

## Construction

- Body is impact-resistant polycarbonate for PCD series and ABS for ABD series
- Opaque and clear covers are impact-resistant polycarbonate for PCD series and ABS for ABD series
- Polycarbonate material is easily punched, drilled, filed, or sawed
- Straight side walls permit ganging of multiple enclosures
- Cross-point captivated cover screws are stainless steel
- Mounting holes molded directly adjacent to cover screws
- Mounting tracks along body side walls and bosses on cover for PC card installation
- Cover screws protected by removable caps that are aesthetic and provide tamper resistance
- Molded internal pads for mounting optional panels, rails, and other components
- Panel mounting feature on both body and cover
- Seamless foam-in-place gasket assures watertight and dust-tight seal
- Screws provided for mounting optional panel

## Finish/Color

Optional panels are zinc-plated steel. Polycarbonate and ABS enclosure material is RAL 7035 light gray inside and out.

## Industry Standards

### Polycarbonate Enclosure

UL 508A, 508, File No. E61997: Type 4, Type 4X, Type 6, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, Type 6, Type 12, and Type 13  
CSA File No. LR42186: Type 4, Type 4X, Type 6, Type 12, and Type 13  
Enclosure flammability rating per UL 508 IEC 60529, IP67

### ABS Enclosure

NEMA/EEMAC Type 4, Type 4X, Type 6, Type 12, and Type 13  
Enclosure flammability rating UL94-HB IEC 60529, IP67

## Accessories

DIN Rails  
Hardware Kit  
Hinge Kit  
Mounting Bracket Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

**NOTE:** For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.

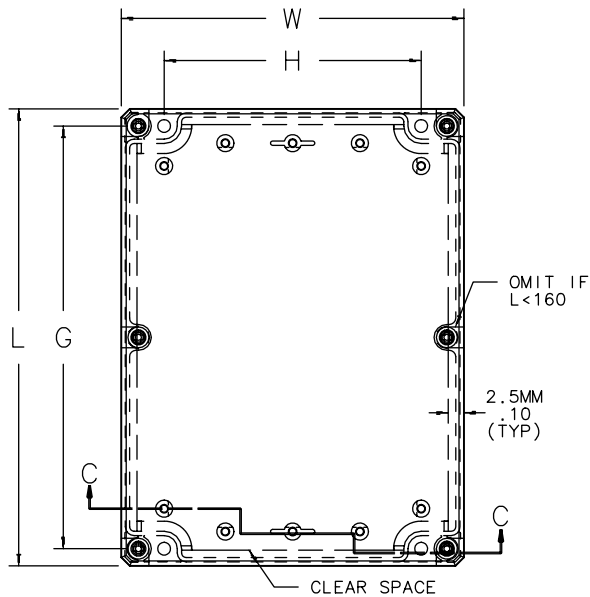


**Standard Sizes QLINE® D Polycarbonate and ABS Type 4X and Type 6 Enclosures**

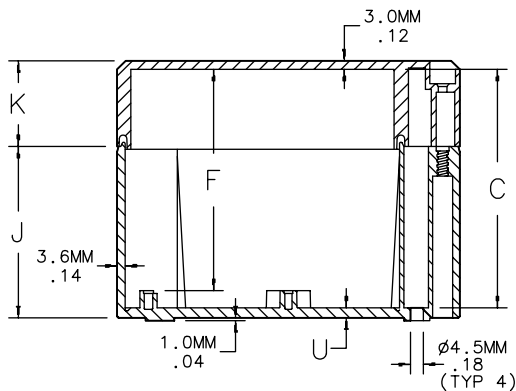
Enclosure Catalog Number Opaque Cover	Enclosure Catalog Number Clear Cover	External Dimensions L x W	Internal Dimensions A x B x C	Panel* Catalog Number	Panel Size D x E	Mounting G x H	F	J	K	P	Q	R	S	U
Q554PCD Q554ABD	Q554PCDCC Q554ABDCC	55 x 53 (2.17 x 2.09)	49.5 x 47.5 x 31 (1.95 x 1.87 x 1.22)	—	—	43 x 41 (1.69 x 1.61)	27.5 (1.08)	25 (0.98)	10 (0.39)	16 (0.63)	—	—	—	2 (0.08)
Q886PCD Q886ABD	Q886PCDCC Q886ABDCC	82 x 80 (3.23 x 3.15)	75.5 x 73.5 x 49 (2.97 x 2.89 x 1.93)	Q88PD	68 x 55 (2.68 x 2.17)	70 x 50 (2.76 x 1.97)	42 (1.65)	40 (1.57)	15 (0.59)	58 (2.28)	43.5 (1.71)	—	58 (2.28)	3 (0.12)
Q1286PCD Q1286ABD	Q1286PCDCC Q1286ABDCC	120 x 80 (4.72 x 3.15)	113.5 x 73.5 x 49 (4.47 x 2.89 x 1.93)	Q128PD	91 x 65 (3.58 x 2.56)	108 x 50 (4.25 x 1.97)	42 (1.65)	40 (1.57)	15 (0.59)	58 (2.28)	81.5 (3.21)	—	96 (3.78)	3 (0.12)
Q1686PCD Q1686ABD	Q1686PCDCC Q1686ABDCC	160 x 80 (6.30 x 3.15)	153.5 x 73.5 x 49 (6.04 x 2.89 x 1.93)	Q168PD	131 x 65 (5.16 x 2.56)	148 x 50 (5.83 x 1.97)	42 (1.65)	40 (1.57)	15 (0.59)	58 (2.28)	121.5 (4.78)	—	136 (5.35)	3 (0.12)
Q12126PCD Q12126ABD	Q12126PCDCC Q12126ABDCC	122 x 120 (4.80 x 4.72)	115.5 x 113.5 x 49 (4.55 x 4.47 x 1.93)	Q1212PD	105 x 93 (4.13 x 3.66)	110 x 90 (4.33 x 3.54)	72 (2.83)	70 (2.76)	15 (0.59)	98 (3.86)	83.5 (3.29)	—	98 (3.86)	3 (0.12)
Q20158PCD Q20158ABD	Q20158PCDCC Q20158ABDCC	200 x 150 (7.87 x 5.91)	193 x 143 x 69 (7.60 x 5.63 x 2.72)	Q2015PD	170 x 128 (6.69 x 5.04)	188 x 120 (7.40 x 4.72)	62 (2.44)	60 (2.36)	15 (0.59)	118 (4.65)	160 (6.30)	118 (4.65)	176 (6.93)	3 (0.12)
Q889PCD Q889ABD	Q889PCDCC Q889ABDCC	82 x 80 (3.23 x 3.15)	75.5 x 73.5 x 79 (2.97 x 2.89 x 3.11)	Q88PD	68 x 55 (2.68 x 2.17)	70 x 50 (2.76 x 1.97)	72 (2.83)	70 (2.76)	15 (0.59)	58 (2.28)	43.5 (1.71)	37 (1.46)	58 (2.28)	3 (0.12)
Q1289PCD Q1289ABD	Q1289PCDCC Q1289ABDCC	120 x 80 (4.72 x 3.15)	113 x 73 x 79 (4.45 x 2.87 x 3.11)	Q128PD	91 x 65 (3.58 x 2.56)	108 x 50 (4.25 x 1.97)	72 (2.83)	70 (2.76)	15 (0.59)	58 (2.28)	81.5 (3.21)	—	96 (3.78)	3 (0.12)
Q1689PCD Q1689ABD	Q1689PCDCC Q1689ABDCC	160 x 80 (6.30 x 3.15)	153 x 73 x 79 (6.02 x 2.87 x 3.11)	Q168PD	131 x 65 (5.16 x 2.56)	148 x 50 (5.83 x 1.97)	72 (2.83)	70 (2.76)	15 (0.59)	58 (2.28)	121.5 (4.78)	—	136 (5.35)	3 (0.12)
Q12129PCD Q12129ABD	Q12129PCDCC Q12129ABDCC	122 x 120 (4.80 x 4.72)	115.5 x 113.5 x 79 (4.55 x 4.47 x 3.11)	Q1212PD	105 x 93 (4.13 x 3.66)	110 x 90 (4.33 x 3.54)	72 (2.83)	70 (2.76)	15 (0.59)	98 (3.86)	83.5 (3.29)	97 (3.82)	98 (3.86)	3 (0.12)
Q20129PCD Q20129ABD	Q20129PCDCC Q20129ABDCC	200 x 120 (7.87 x 4.72)	193 x 113 x 79 (7.60 x 4.45 x 3.11)	Q2012PD	170 x 100 (6.69 x 3.94)	188 x 90 (7.40 x 3.54)	72 (2.83)	70 (2.76)	15 (0.59)	90 (3.54)	160 (6.30)	40 (1.57)	176 (6.93)	3 (0.12)
Q30239PCD Q30239ABD	Q30239PCDCC Q30239ABDCC	300 x 230 (11.81 x 9.06)	293 x 223 x 78.5 (11.54 x 8.78 x 3.09)	Q3023PD	265 x 210 (10.43 x 8.27)	288 x 200 (11.34 x 7.87)	72.5 (2.85)	55 (2.17)	30 (1.18)	198 (7.80)	255 (10.04)	160 (6.30)	275 (10.83)	3.5 (0.14)
Q16129PCD Q16129ABD	Q16129PCDCC Q16129ABDCC	160 x 120 (6.30 x 4.72)	153 x 113 x 83.5 (6.02 x 4.45 x 3.29)	Q1612PD	130 x 100 (5.12 x 3.94)	148 x 90 (5.83 x 3.54)	77.5 (3.05)	60 (2.36)	30 (1.18)	90 (3.54)	120 (4.72)	—	136 (5.35)	3 (0.12)
Q24169PCD Q24169ABD	Q24169PCDCC Q24169ABDCC	240 x 160 (9.45 x 6.30)	233 x 153 x 83.5 (9.17 x 6.02 x 3.29)	Q2416PD	211 x 148 (8.31 x 5.83)	228 x 130 (8.98 x 5.12)	77.5 (3.05)	75 (2.95)	15 (0.59)	138 (5.43)	201.5 (7.93)	75 (2.95)	215 (8.46)	3.5 (0.14)
Q302311PCD Q302311ABD	Q302311PCDCC Q302311ABDCC	300 x 230 (11.81 x 9.06)	293 x 223 x 103.5 (11.54 x 8.78 x 4.07)	Q3023PD	265 x 210 (10.43 x 8.27)	288 x 200 (11.34 x 7.87)	97.5 (3.84)	55 (2.17)	55 (2.17)	198 (7.80)	255 (10.04)	160 (6.30)	275 (10.83)	3.5 (0.14)
Q241612PCD Q241612ABD	Q241612PCDCC Q241612ABDCC	240 x 160 (9.45 x 6.30)	233 x 153 x 113.5 (9.17 x 6.02 x 4.47)	Q2416PD	211 x 148 (8.31 x 5.83)	228 x 130 (8.98 x 5.12)	107.5 (4.23)	75 (2.95)	45 (1.77)	75 (2.95)	201.5 (7.93)	75 (2.95)	215 (8.46)	3.5 (0.14)

Inch dimensions in ( ).  
\* Panels must be ordered separately.

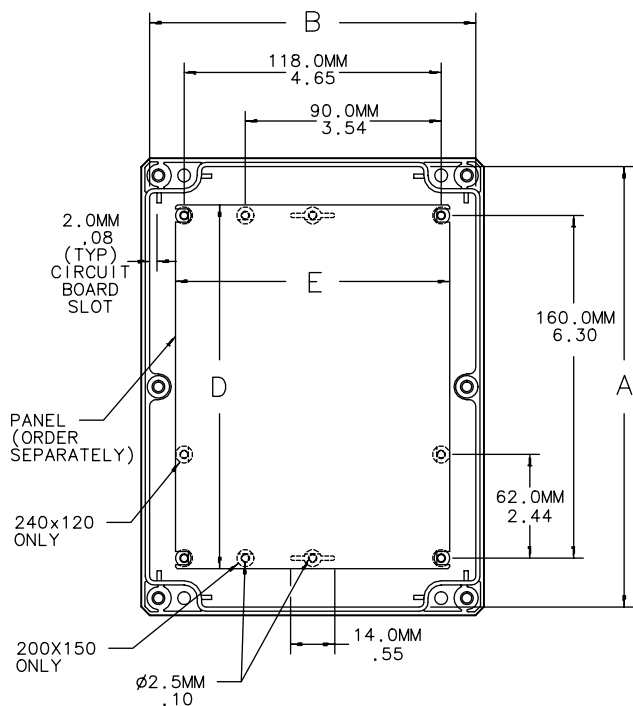
# QLINE<sup>®</sup> D Polycarbonate and ABS Type 4X and Type 6 Enclosures



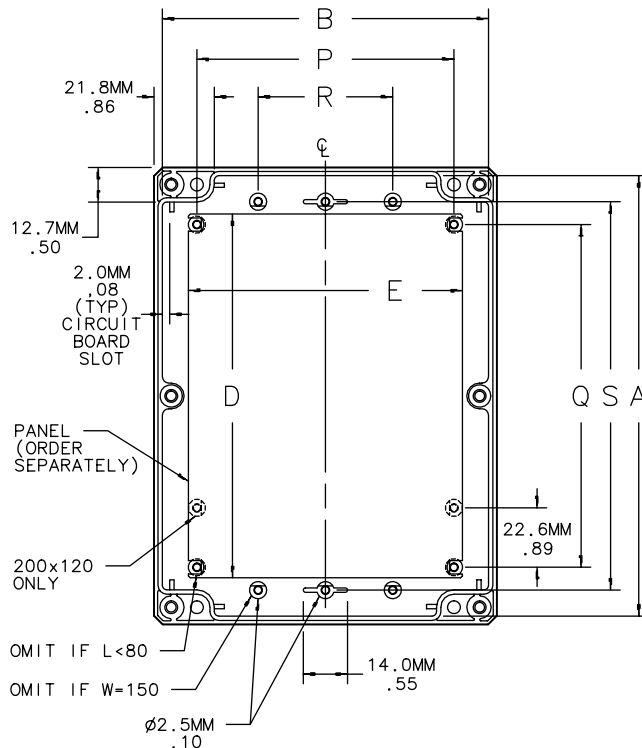
**Top View**



**SECTION C-C**

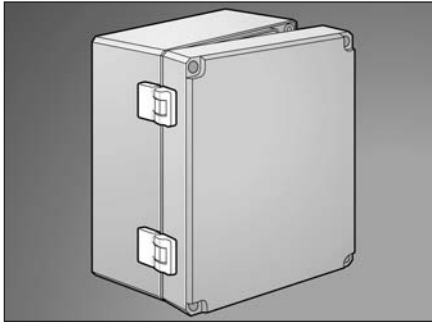


**Top View with Cover Removed**  
(when L x W = 200 x 150 or 240 x 120)



**Top View with Cover Removed**

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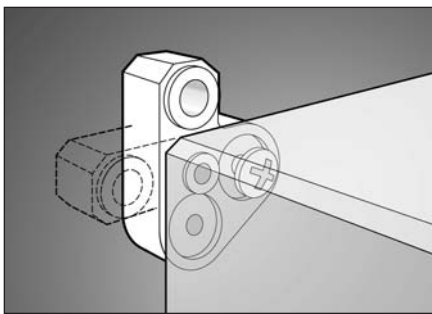


**Hinge Kit**

includes two polyamide hinges, eight M4 self-tapping zinc-plated screws, eight flat washers, and drilling templates.

NOTE: Kit might not meet Type 4 requirements and should therefore be verified by customer.

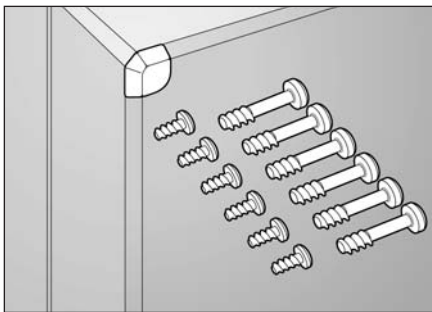
Catalog Number
QDEHK



**Mounting Bracket Kit**

has four polycarbonate brackets and four M4 self-tapping zinc-plated screws. Kit is field installable. Maintains listed ratings for enclosure.

Catalog Number
QDMFK



**Hardware Kit**

includes six M4 self-tapping stainless steel cover screws, six M4 self-tapping zinc-plated panel screws, and six removable plastic caps that fit over the screws to provide tamper resistance as well as a clean aesthetic appearance. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

Catalog Number
QDHK





A Pentair Company

Rev. A October 2004

# QLINE® D Polycarbonate and ABS Enclosures Selection Matrix

## Accessory Selection Matrix QLINE® D Polycarbonate and ABS Type 4X and Type 6 Enclosures

External Dimensions L   W		Enclosures				Accessories			
		Opaque Cover Polycarbonate	Opaque Cover ABS	Clear Cover Polycarbonate	Clear Cover ABS	Panel	Hinge Kit	Mounting Bracket Kit	Hardware Kit
55	53	Q554PCD	Q554ABD	Q554PCDCC	Q554ABDCC				
65	53	Q754PCD	Q754ABD	Q754PCDCC	Q754ABDCC				
82	80	Q886PCD	Q886ABD	Q886PCDCC	Q886ABDCC	Q88PD			
82	80	Q889PCD	Q889ABD	Q889PCDCC	Q889ABDCC	Q88PD			
120	80	Q1286PCD Q1286PCEMC	Q1286ABD	Q1286PCDCC	Q1286ABDCC	Q128PD			
120	80	Q1289PCD Q1289PCEMC	Q1289ABD	Q1289PCDCC	Q1289ABDCC	Q128PD			
160	80	Q1686PCD	Q1686ABD	Q1686PCDCC	Q1686ABDCC	Q168PD			
160	80	Q1689PCD Q1689PCEMC	Q1689ABD	Q1689PCDCC	Q1689ABDCC	Q168PD			
122	120	Q12126PCD	Q12126ABD	Q12126PCDCC	Q12126ABDCC	Q1212PD			
122	120	Q12129PCD	Q12129ABD	Q12129PCDCC	Q12126ABDCC	Q1212PD	QDEHK	QDMFK	QDHK
160	120	Q16129PCD Q16129PCEMC	Q16129ABD	Q16129PCDCC	Q16129ABDCC	Q1612PD			
200	120	Q20128PCD	Q20128ABD	Q20128PCDCC	Q20128ABDCC	Q2012PD			
200	120	Q20129PCD Q20129PCEMC	Q20129ABD	Q20129PCDCC	Q20128ABDCC	Q2012PD			
240	120	Q241210PCD	Q241210ABD	Q241210PCDCC	Q241210ABDCC	Q2412PD			
200	150	Q20158PCD	Q20158ABD	Q20158PCDCC	Q20158ABDCC	Q2015PD			
240	160	Q24169PCD Q24169PCEMC	Q24169ABD	Q24169PCDCC	Q24169ABDCC	Q2416PD			
240	160	Q241612PCD	Q241612ABD	Q241612PCDCC	Q241612ABDCC	Q2416PD			
300	230	Q30239PCD	Q30239ABD	Q30239PCDCC	Q30239ABDCC	Q3023PD			
300	230	Q302311PCD	Q302311ABD	Q302311PCDCC	Q302311ABDCC	Q3023PD			
360	200	Q362015PCD	Q362015ABD	Q362015PCDCC	Q362015ABDCC	Q3620PD			

**Accessory Selection Matrix QLINE® D Polycarbonate Type 4X and Type 6 Pushbutton Enclosures**

See Pushbutton Enclosures in Chapter 2 for more information.

External Dimensions L   W		Enclosures		Accessories			
		30.5mm Hole	22.5mm Hole	Panel	Hinge Kit	Mounting Bracket Kit	Hardware Kit
82	80	Q1PBPCD	Q1PBPCDM	Q88PD	QDEHK	QDMFK	QDHK
120	80		Q2PBPCDM	Q128PD			
160	80	Q2PBPCD		Q168PD			
160	80		Q3PBPCDM	Q168PD			
200	120	Q3PBPCD		Q2012PD			
200	120	Q4PBPCD		Q2012PD			
200	120		Q4PBPCDM	Q2012PD			
240	160	Q6PBPCD		Q2416PD			

# QLINE® E Polycarbonate and ABS Type 4X and Type 6 Enclosures



## Application

Contoured body with flush cover screws provides an attractive and contemporary appearance. Enclosures can be used as insulated electrical junction boxes, terminal wiring boxes, instrument housings, and as housings for electrical controls in wet, dusty, and/or corrosive environments that may also be subject to occasional submersion.

The ABE series of enclosures provides the same features and similar physical properties as its polycarbonate counterpart, the PCE series of enclosures, but at a lower cost.

See Chapter 11, **EMC Enclosures**, for information on a related **EMC-shielded** product.

## Construction

- Body is impact-resistant polycarbonate for PCE series and ABS for ABE series
- Opaque and clear covers are impact-resistant polycarbonate for PCE, opaque covers are ABS for ABE series
- Polycarbonate and ABS material is easily punched, drilled, filed, or sawed
- Cross-point flush cover screws are strong, durable polyamide
- Cover includes a molded-in wire lead hole
- Mounting tracks along body side walls for PC card installation
- Molded internal pads for mounting optional panels, rails, and other components
- Seamless foam-in-place gasket assures watertight and dust-tight seal

## Finish/Color

Optional panels are zinc-plated steel. Polycarbonate and ABS enclosure material is RAL 7035 light gray inside and out.

## Industry Standards

### Polycarbonate Enclosure

UL 508A, 508 File No. E61997: Type 4, Type 4X, Type 6, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, Type 6, Type 12, and Type 13  
CSA File No. LR42186: Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508 IEC 60529, IP67

### ABS Enclosure

NEMA/EEMAC Type 4, Type 4X, Type 6, Type 12, and Type 13  
Enclosure flammability rating UL94-HB IEC 60529, IP67

## Accessories

Brass Insert Kit  
DIN Rails  
Hardware Kit  
Hinge Kit  
Mounting Bracket Kit

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes QLINE® E Polycarbonate and ABS Type 4X and Type 6 Enclosures**

Enclosure Catalog Number Opaque Cover	Enclosure Catalog Number Clear Cover	External Dimensions L x W	Internal Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	F	K	P	Q	S
Q1388PCE Q1388ABE	Q1388PCECC Q1388ABECC	125 x 75 (4.92 x 2.95)	118.5 x 68.5 x 67.4 (4.67 x 2.70 x 2.65)	Q138PE	98 x 48 (3.86 x 1.89)	110 x 60 (4.33 x 2.36)	60.5 (2.38)	25 (0.98)	40 (1.57)	75 (2.95)	90 (3.54)
Q13138PCE Q13138ABE	Q13138PCECC Q13138ABECC	125 x 125 (4.92 x 4.92)	118.5 x 118.5 x 67.4 (4.67 x 4.67 x 2.65)	Q1313PE	98 x 98 (3.86 x 3.86)	110 x 110 (4.33 x 4.33)	60.5 (2.38)	25 (0.98)	90 (3.54)	75 (2.95)	90 (3.54)
Q18138PCE Q18138ABE	Q18138PCECC Q18138ABECC	175 x 125 (6.89 x 4.92)	168.5 x 118.5 x 67.4 (6.63 x 4.67 x 2.65)	Q1813PE	148 x 98 (5.83 x 3.86)	160 x 110 (6.30 x 4.33)	60.5 (2.38)	25 (0.98)	90 (3.54)	100 (3.94)	140 (5.51)
Q18188PCE Q18188ABE	Q18188PCECC Q18188ABECC	175 x 175 (6.89 x 6.89)	168.5 x 168.5 x 67.4 (6.63 x 6.63 x 2.65)	Q1818PE	148 x 148 (5.83 x 5.83)	160 x 160 (6.30 x 6.30)	60.5 (2.38)	25 (0.98)	140 (5.51)	125 (4.92)	140 (5.51)
Q25188PCE Q25188ABE	Q25188PCECC Q25188ABECC	250 x 175 (9.84 x 6.89)	243.5 x 168.5 x 67.4 (9.59 x 6.63 x 2.65)	Q2518PE	223 x 148 (8.78 x 5.83)	235 x 160 (9.25 x 6.30)	60.5 (2.38)	25 (0.98)	138.5 (5.45)	201.6 (7.94)	215 (8.46)
Q13810PCE Q13810ABE	Q13810PCECC Q13810ABECC	125 x 75 (4.92 x 2.95)	118.5 x 118.5 x 92.4 (4.67 x 2.70 x 3.64)	Q138PE	98 x 48 (3.86 x 1.89)	110 x 60 (4.33 x 2.36)	85.5 (3.37)	50 (1.97)	40 (1.57)	75 (2.95)	90 (3.54)
Q131310PCE Q131310ABE	Q131310PCECC Q131310ABECC	125 x 125 (4.92 x 4.92)	118.5 x 118.5 x 92.4 (4.67 x 4.67 x 3.64)	Q1313PE	98 x 98 (3.86 x 3.86)	110 x 110 (4.33 x 4.33)	85.5 (3.37)	50 (1.97)	90 (3.54)	75 (2.95)	90 (3.54)
Q181810PCE Q181810ABE	Q181810PCECC Q181810ABECC	175 x 125 (6.89 x 4.92)	168.5 x 118.5 x 92.4 (6.63 x 4.67 x 3.64)	Q1813PE	148 x 98 (5.83 x 3.86)	160 x 110 (6.30 x 4.33)	85.5 (3.37)	50 (1.97)	90 (3.54)	100 (3.94)	140 (5.51)
Q181810PCE Q181810ABE	Q181810PCECC Q181810ABECC	175 x 175 (6.89 x 6.89)	168.5 x 168.5 x 92.4 (6.63 x 6.63 x 3.64)	Q1818PE	148 x 148 (5.83 x 5.83)	160 x 160 (6.30 x 6.30)	85.5 (3.37)	50 (1.97)	140 (5.51)	125 (4.92)	140 (5.51)
Q251810PCE Q251810ABE	Q251810PCECC Q251810ABECC	250 x 175 (9.84 x 6.89)	243.5 x 168.5 x 92.4 (9.59 x 6.63 x 3.64)	Q2518PE	223 x 148 (8.78 x 5.83)	235 x 160 (9.25 x 6.30)	85.5 (3.37)	50 (1.97)	138.5 (5.45)	201.6 (7.94)	215 (8.46)
Q13813PCE Q13813ABE	Q13813PCECC Q13813ABECC	125 x 75 (4.92 x 2.95)	118.5 x 68.5 x 117.4 (4.67 x 2.70 x 4.62)	Q138PE	98 x 48 (3.86 x 1.89)	110 x 60 (4.33 x 2.36)	110.5 (4.35)	75 (2.95)	40 (1.57)	75 (2.95)	90 (3.54)
Q131313PCE Q131313ABE	Q131313PCECC Q131313ABECC	125 x 125 (4.92 x 4.92)	118.5 x 118.5 x 117.4 (4.67 x 4.67 x 4.62)	Q1313PE	98 x 98 (3.86 x 3.86)	110 x 110 (4.33 x 4.33)	110.5 (4.35)	75 (2.95)	90 (3.54)	75 (2.95)	90 (3.54)
Q181313PCE Q181313ABE	Q181313PCECC Q181313ABECC	175 x 125 (6.89 x 4.92)	168.5 x 118.5 x 117.4 (6.63 x 4.67 x 4.62)	Q1813PE	148 x 98 (5.83 x 3.86)	160 x 110 (6.30 x 4.33)	110.5 (4.35)	75 (2.95)	90 (3.54)	100 (3.94)	140 (5.51)
Q181813PCE Q181813ABE	Q181813PCECC Q181813ABECC	175 x 175 (6.89 x 6.89)	168.5 x 168.5 x 117.4 (6.63 x 6.63 x 4.62)	Q1818PE	148 x 148 (5.83 x 5.83)	160 x 160 (6.30 x 6.30)	110.5 (4.35)	75 (2.95)	140 (5.51)	125 (4.92)	140 (5.51)
Q181315PCE Q181315ABE	Q181315PCECC Q181315ABECC	175 x 125 (6.89 x 4.92)	168.5 x 118.5 x 142.4 (6.63 x 4.67 x 5.61)	Q1813PE	148 x 98 (5.83 x 3.86)	160 x 110 (6.30 x 4.33)	135.5 (5.33)	100 (3.94)	90 (3.54)	100 (3.94)	140 (5.51)
Q181815PCE Q181815ABE	Q181815PCECC Q181815ABECC	175 x 175 (6.89 x 6.89)	168.5 x 168.5 x 142.4 (6.63 x 6.63 x 5.61)	Q1818PE	148 x 148 (5.83 x 5.83)	160 x 160 (6.30 x 6.30)	135.5 (5.33)	100 (3.94)	140 (5.51)	125 (4.92)	140 (5.51)
Q251815PCE Q251815ABE	Q251815PCECC Q251815ABECC	250 x 175 (9.84 x 6.89)	243.5 x 168.5 x 142.4 (9.59 x 6.63 x 5.61)	Q2518PE	223 x 148 (8.78 x 5.83)	235 x 160 (9.25 x 6.30)	135.5 (5.33)	100 (3.94)	138.5 (5.45)	201.6 (7.94)	215 (8.46)

Inch dimensions in ( ).

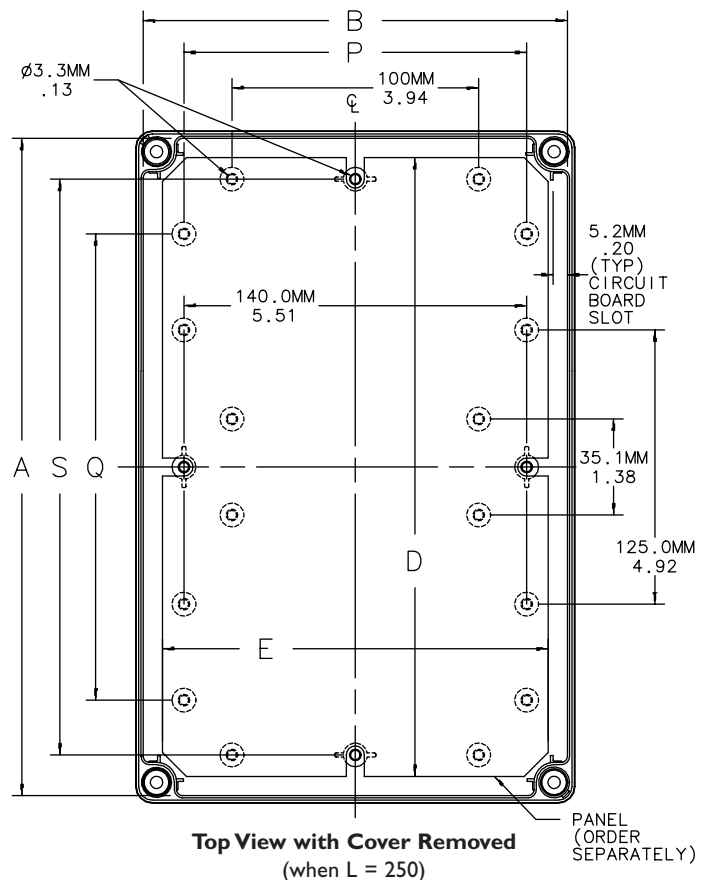
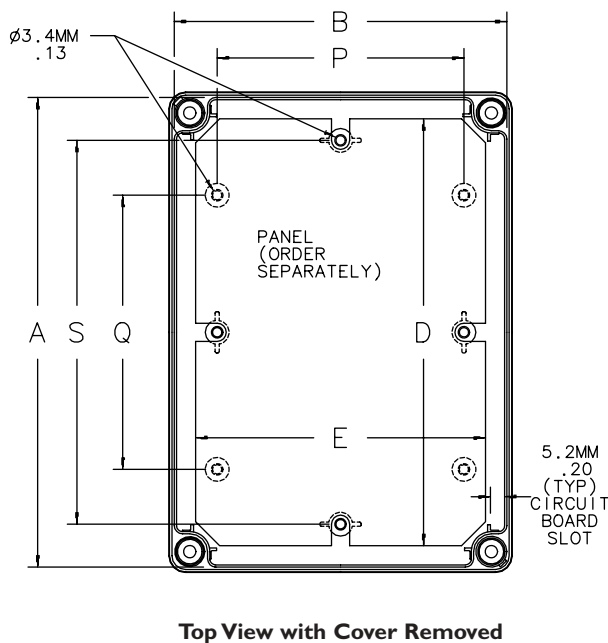
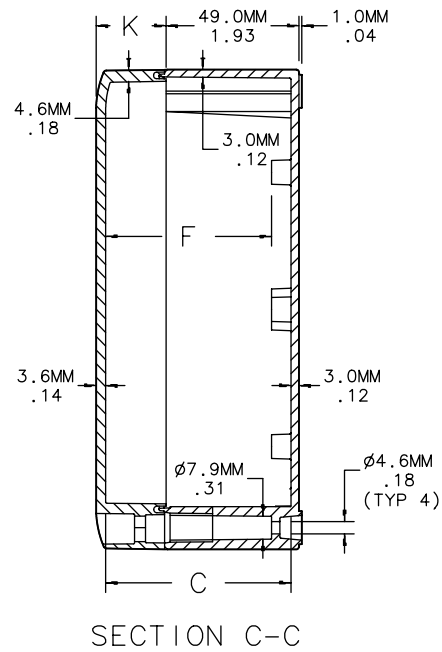
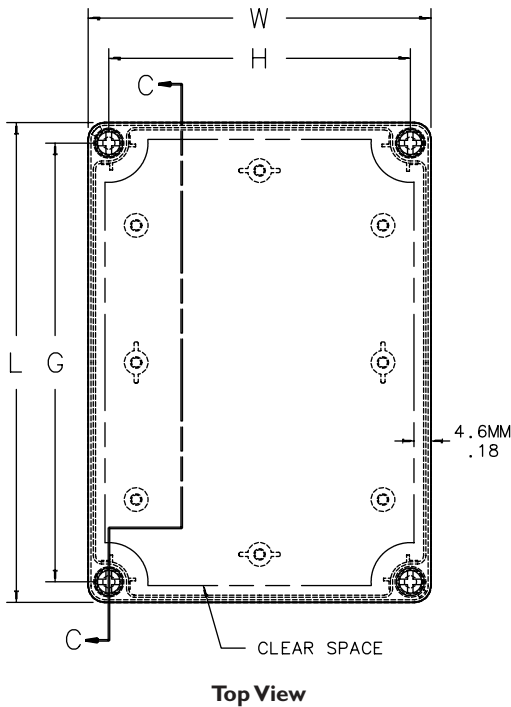
\* Panels must be ordered separately.

Corrosion-Resistant Enclosures

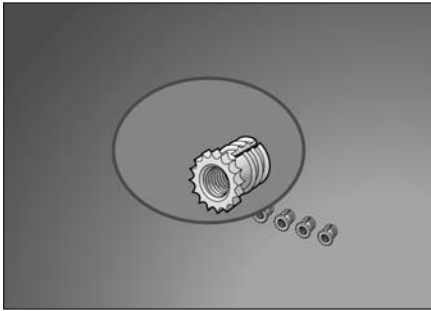
6

QLINE® E Polycarbonate and ABS Enclosures

# QLINE<sup>®</sup> E Polycarbonate and ABS Type 4X and Type 6 Enclosures



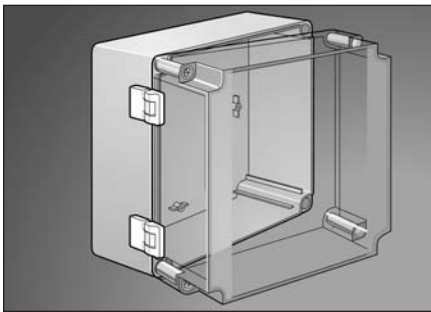
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**Brass Inserts**

Self-tapping brass inserts fit into molded pads in the bottom of the enclosure. Inserts have an M2 internal machine screw thread and M4 self-tapping external thread. Four inserts per package.

Catalog Number	Description
QEBI	M2 thread inserts



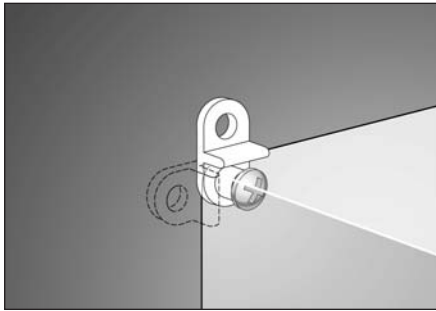
**Hinge Kit**

includes two polyamide hinges, eight M4 self-tapping zinc plated screws, eight flat washers, and drilling template.

NOTE: Kit might not meet Type 4 requirements and should therefore be verified by customer.

Catalog Number
QDEHK

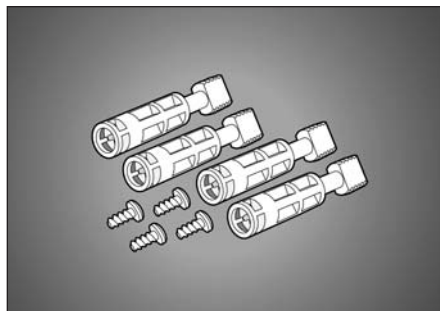
# QLINE<sup>®</sup> E Polycarbonate and ABS Type 4X and Type 6 Accessories



### Mounting Bracket Kit

fits all QLINE<sup>®</sup> Series E enclosure sizes. No modification to the enclosure is required for installation. Maintains listed ratings. Kit includes four polycarbonate brackets and four M4 self-tapping zinc-plated screws.

Catalog Number
Q-EMFK



### Hardware Kit

Four cross-point polyamide cover screws and four M4 self-tapping zinc plated screws used to mount optional panels, rails, and other components. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

Catalog Number	Description	Fits QLINE <sup>®</sup> Enclosure
QEHK35	35mm screw	when C = 67.4mm, 117.4mm, or 142.4mm
QEHK60	60mm screw	when C = 92.4mm

**Accessory Selection Matrix** QLINE® E Polycarbonate and ABS Type 4X and Type 6 Enclosures

External Dimensions L   W		Enclosures				Accessories				
		Opaque Cover Polycarbonate	Opaque Cover ABS	Clear Cover Polycarbonate	Clear Cover ABS	Panel	Brass Inserts	Hinge Kit	Mounting Bracket Kit	Hardware Kit
125	75	Q1388PCE Q1388PCEMC	Q1388ABE	Q1388PCECC	Q138ABECC	Q138PE				QEHK35
125	75	Q13810PCE	Q13810ABE	Q13810PCECC	Q13810ABECC	Q138PE				QEHK60
125	75	Q13813PCE	Q13813ABE	Q13813PCECC	Q13813ABECC	Q138PE				QEHK35
125	125	Q13138PCE Q13138PCEMC	Q13138ABE	Q13138PCECC	Q13138ABECC	Q1313PE				QEHK35
125	125	Q131310PCE Q131310PCEMC	Q131310ABE	Q131310PCECC	Q131310ABECC	Q1313PE				QEHK60
125	125	Q131313PCE	Q131313ABE	Q131313PCECC	Q131313ABECC	Q1313PE				QEHK35
175	125	Q18138PCE Q18138PCEMC	Q18138ABE	Q18138PCECC	Q18138ABECC	Q1813PE	QEBI	QDEHK	QEMFK	K35
175	125	Q181310PCE Q181310PCEMC	Q181310ABE	Q181310PCECC	Q181310ABECC	Q1813PE				QEHK60
175	125	Q181313PCE	Q181313ABE	Q181313PCECC	Q181310ABECC	Q1813PE				QEHK35
175	175	Q18188PCE Q18188PCEMC	Q18188ABE	Q18188PCECC	Q18188ABECC	Q1818PE				QEHK35
175	175	Q181810PCE	Q181810ABE	Q181810PCECC	Q181810ABECC	Q1818PE				QEHK60
175	175	Q181813PCE	Q181813ABE	Q181813PCECC	Q181813ABECC	Q1818PE				QEHK35
250	175	Q25188PCE Q25188PCEMC	Q25188ABE	Q25188PCECC	Q25188ABECC	Q2518PE				QEHK35
250	175	Q251810PCE	Q251810ABE	Q251813PCECC	Q251813ABECC	Q2518PE				QEHK60
250	175	Q251815PCE	Q251815ABE	Q251815PCECC	Q251815ABECC	Q2518PE				QEHK35





A Pentair Company

Rev. A October 2004

# QLINE® I Polycarbonate and ABS Type 4X Enclosures



## Application

Designed for use as insulated electrical junction boxes, terminal wiring boxes, instrument housings, electrical control boxes, and pushbutton housings in wet, dusty, and corrosive environments. Clear cover provides easy visual inspection of interior components.

The ABI series of enclosures provides the same features and similar physical properties as its polycarbonate counterpart, the PCI enclosure, but at a lower cost.

See Chapter 11, EMC Enclosures, for information on a related EMC-shielded product.

## Construction

- Body is impact-resistant polycarbonate for PCI series and ABS for ABI series
- Opaque and clear covers are impact-resistant polycarbonate for PCI, opaque covers are ABS for ABI series
- Polycarbonate and ABS material is easily punched, drilled, filed, or sawed
- Mounting holes molded directly under cover screws
- Molded internal pads for mounting optional panels, rails, and other components
- Molded internal rails for mounting adjustable depth panel kit
- Screws provided for mounting optional panel
- Optional extension rings are molded polycarbonate
- Cover includes a molded-in hole for wire lead
- Seamless foam-in-place gasket assures watertight and dust-tight seal

**Screw Cover Enclosures** have easily removable covers attached to body with strong, durable polyamide cross-point cover screws.

**Enclosures with Quick-Release Latches** have polycarbonate hinges and polyester latches with a spring-loaded monel bail.

## Finish/Color

Optional panels are zinc-plated steel. Polycarbonate and ABS enclosure material is RAL 7035 light gray inside and out.

## Industry Standards

### Polycarbonate Enclosure

UL 508A, 508 File No. E61997: Type 4, Type 4X, Type 12, and Type 13  
NEMA/EEMAC Type 4, Type 4X, Type 12, and Type 13  
CSA File No. LR42186: Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating per UL 508 IEC 60529, IP66

### ABS Enclosure

NEMA/EEMAC Type 4, Type 4X, Type 12, and Type 13  
Enclosure flammability rating UL94-HB IEC 60529, IP66

## Accessories

Bottom Cover Kit  
Brass Insert Kit  
Cover Screw Kit  
Extension Ring (see table)  
Hardware Kit  
Hinge Kit  
Mounting Bracket Kit  
Panel Depth Fitting

## Modification Services Program

You can customize this product to your unique requirements by specifying from these options:

- Colors
- Holes and cutouts in body, doors, subpanels
- Doors
- Subpanels
- Standard accessories

For details, see Modification Services at [hoffmanonline.com](http://hoffmanonline.com). To order, contact your local Hoffman sales representative.

NOTE: For information about modifications outside the scope of the Modification Services program, contact your Hoffman sales representative.



**Standard Sizes QLINE® I Polycarbonate and ABS Type 4X Screw Cover Enclosures**

Enclosure Catalog Number Opaque Cover	Clear Cover	External Dimensions L x W	Internal Dimensions A x B x C	*Panel Catalog Number	Panel Size D x E	* Extension Ring Catalog Number	Mounting G x H	F	P	Q	R	S	T	U	Y	Z
Q202013PCI	Q202013PCICC	200 x 200 (7.87 x 7.87)	188 x 188 x 123 (7.40 x 7.40 x 4.84)	Q2020PI	160x160 (6.30x6.30)	Q2020EXTI	180x180 (7.09x7.09)	115 (4.53)	150 (5.91)	150 (5.91)	140 (5.51)	140 (5.51)	120 (4.72)	110 (4.33)	100 (3.94)	100 (3.94)
Q302013PCI	Q302013PCICC	300 x 200 (11.81 x 7.87)	288 x 188 x 123 (11.34x7.40 x 4.84)	Q3020PI	260x160 (10.24x6.30)	Q3020EXTI	280x180 (11.02x7.09)	115 (4.53)	150 (5.91)	250 (9.84)	140 (5.51)	140 (5.51)	120 (4.72)	210 (8.27)	100 (3.94)	200 (7.87)
Q402013PCI	Q402013PCICC	400 x 200 (15.75 x 7.87)	388 x 188 x 123 (15.28x7.40 x 4.84)	Q4020PI	360x160 (14.17x6.30)	Q4020EXTI	380x180 (14.96x7.09)	115 (4.53)	150 (5.91)	350 (13.78)	140 (5.51)	140 (5.51)	120 (4.72)	310 (12.20)	100 (3.94)	300 (11.81)
Q303013PCI	Q303013PCICC	300 x 300 (11.81 x 11.81)	288 x 288 x 123 (11.34x11.34 x 4.84)	Q3030PI	260x260 (10.24x10.24)	Q3030EXTI	280x280 (11.02x11.02)	115 (4.53)	250 (9.84)	250 (9.84)	240 (9.45)	240 (9.45)	220 (8.66)	210 (8.27)	200 (7.87)	200 (7.87)
Q403013PCI	Q403013PCICC	400 x 300 (15.75 x 11.81)	388 x 288 x 123 (15.28x11.34 x 4.84)	Q4030PI	360x260 (14.17x10.24)	Q4030EXTI	380x280 (14.96x11.02)	115 (4.53)	250 (9.84)	350 (13.78)	240 (9.45)	240 (9.45)	220 (8.66)	310 (12.20)	200 (7.87)	300 (11.81)
Q603013PCI	Q603013PCICC	600 x 300 (23.62 x 11.81)	588 x 288 x 123 (23.15x11.34 x 4.84)	Q6030PI	560x260 (22.05x10.24)	Q6030EXTI	580x280 (22.83x11.02)	115 (4.53)	250 (9.84)	550 (21.65)	240 (9.45)	240 (9.45)	220 (8.66)	510 (20.08)	200 (7.87)	500 (19.69)
Q604013PCI	Q604013PCICC	600 x 400 (23.62 x 15.75)	588 x 388 x 123 (23.15x15.28 x 4.84)	Q6040PI	560x360 (22.05x14.17)	Q6040EXTI	580x380 (22.83x14.96)	115 (4.53)	350 (13.78)	550 (21.65)	340 (13.39)	340 (13.39)	220 (8.66)	510 (20.08)	300 (11.81)	500 (19.69)
Q202018PCI	Q202018PCICC	200 x 200 (7.87 x 7.87)	188 x 188 x 173 (7.40x7.40 x 6.81)	Q2020PI	160x160 (6.30x6.30)	Q2020EXTI	180x180 (7.09x7.09)	165 (6.50)	150 (5.91)	150 (5.91)	140 (5.51)	140 (5.51)	120 (4.72)	110 (4.33)	100 (3.94)	100 (3.94)
Q302018PCI	Q302018PCICC	300 x 200 (11.81 x 7.87)	288 x 188 x 173 (11.34x7.40 x 6.81)	Q3020PI	260x160 (10.24x6.30)	Q3020EXTI	280x180 (11.02x7.09)	165 (6.50)	150 (5.91)	250 (9.84)	140 (5.51)	140 (5.51)	120 (4.72)	210 (8.27)	100 (3.94)	200 (7.87)
Q402018PCI	Q402018PCICC	400 x 200 (15.75 x 7.87)	388 x 188 x 173 (15.28x7.40 x 6.81)	Q4020PI	360x160 (14.17x6.30)	Q4020EXTI	380x180 (14.96x7.09)	165 (6.50)	150 (5.91)	350 (13.78)	140 (5.51)	140 (5.51)	120 (4.72)	310 (12.20)	100 (3.94)	300 (11.81)
Q303018PCI	Q303018PCICC	300 x 300 (11.81 x 11.81)	288 x 288 x 173 (11.34x11.34 x 6.81)	Q3030PI	260x260 (10.24x10.24)	Q3030EXTI	280x280 (11.02x11.02)	165 (6.50)	250 (9.84)	250 (9.84)	240 (9.45)	240 (9.45)	220 (8.66)	210 (8.27)	200 (7.87)	200 (7.87)
Q403018PCI	Q403018PCICC	400 x 300 (15.75 x 11.81)	388 x 288 x 173 (15.28x11.34 x 6.81)	Q4030PI	360x260 (14.17x10.24)	Q4030EXTI	380x280 (14.96x11.02)	165 (6.50)	250 (9.84)	350 (13.78)	240 (9.45)	240 (9.45)	220 (8.66)	310 (12.20)	200 (7.87)	300 (11.81)
Q603018PCI	Q603018PCICC	600 x 300 (23.62 x 11.81)	588 x 288 x 173 (23.15x11.34 x 6.81)	Q6030PI	560x260 (22.05x10.24)	Q6030EXTI	580x280 (22.83x11.02)	165 (6.50)	250 (9.84)	550 (21.65)	240 (9.45)	240 (9.45)	220 (8.66)	510 (20.08)	200 (7.87)	500 (19.69)
Q604018PCI	Q604018PCICC	600 x 400 (23.62 x 15.75)	588 x 388 x 173 (23.15 x 15.28 x 6.81)	Q6040PI	560x360 (22.05x14.17)	Q6040EXTI	580x380 (22.83x14.96)	165 (6.50)	350 (13.78)	550 (21.65)	340 (13.39)	340 (13.39)	220 (8.66)	510 (20.08)	300 (11.81)	500 (19.69)

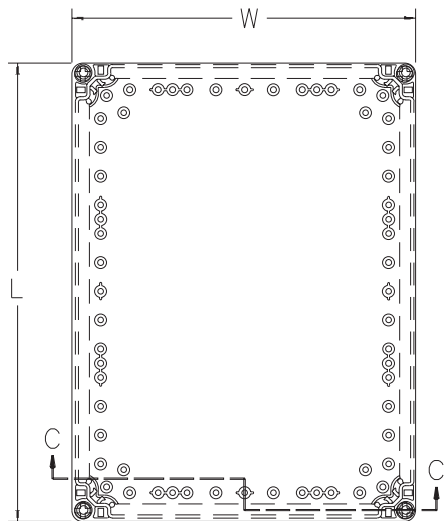
**Standard Sizes QLINE® I Polycarbonate Type 4X Enclosures with Quick-Release Latches**

Enclosure Catalog Number Opaque Cover	Clear Cover	External Dimensions L x W	Internal Dimensions A x B x C	* Panel Catalog Number	Panel Size D x E	Mounting G x H	F	P	Q	R	S	T	U	Y	Z
Q202013PCIQR	Q202013PCICRCC	200 x 200 (7.87 x 7.87)	188 x 188 x 123 (7.40 x 7.40 x 4.84)	Q2020PI	160x160 (6.30x6.30)	180x180 (7.09x7.09)	115 (4.53)	150 (5.91)	150 (5.91)	140 (5.51)	140 (5.51)	120 (4.72)	110 (4.33)	100 (3.94)	100 (3.94)
Q302013PCIQR	Q302013PCICRCC	300 x 200 (11.81 x 7.87)	288 x 188 x 123 (11.34x7.40 x 4.84)	Q3020PI	260x160 (10.24x6.30)	280x180 (11.02x7.09)	115 (4.53)	150 (5.91)	250 (9.84)	140 (5.51)	140 (5.51)	120 (4.72)	210 (8.27)	100 (3.94)	200 (7.87)
Q402013PCIQR	Q402013PCICRCC	400 x 200 (15.75 x 7.87)	388 x 188 x 123 (15.28x7.40 x 4.84)	Q4020PI	360x160 (14.17x6.30)	380x180 (14.96x7.09)	115 (4.53)	150 (5.91)	350 (13.78)	140 (5.51)	140 (5.51)	120 (4.72)	310 (12.20)	100 (3.94)	300 (11.81)
Q303013PCIQR	Q303013PCICRCC	300 x 300 (11.81 x 11.81)	288 x 288 x 123 (11.34x11.34 x 4.84)	Q3030PI	260x260 (10.24x10.24)	280x280 (11.02x11.02)	115 (4.53)	250 (9.84)	250 (9.84)	240 (9.45)	240 (9.45)	220 (8.66)	210 (8.27)	200 (7.87)	200 (7.87)
Q403013PCIQR	Q403013PCICRCC	400x300 (15.75 x 11.81)	388 x 288 x 123 (15.28x11.34 x 4.84)	Q4030PI	360x260 (14.17x10.24)	380x280 (14.96x11.02)	115 (4.53)	250 (9.84)	350 (13.78)	240 (9.45)	240 (9.45)	220 (8.66)	310 (12.20)	200 (7.87)	300 (11.81)
Q603013PCIQR	Q603013PCICRCC	600 x 300 (23.62 x 11.81)	588 x 288 x 123 (23.15x11.34 x 4.84)	Q6030PI	560x260 (22.05x10.24)	580x280 (22.83x11.02)	115 (4.53)	250 (9.84)	550 (21.65)	240 (9.45)	240 (9.45)	220 (8.66)	510 (20.08)	200 (7.87)	500 (19.69)
Q604013PCIQR	Q604013PCICRCC	600 x 400 (23.62 x 15.75)	588 x 388 x 123 (23.15x15.28 x 4.84)	Q6040PI	560x360 (22.05x14.17)	580x380 (22.83x14.96)	115 (4.53)	350 (13.78)	550 (21.65)	340 (13.39)	340 (13.39)	220 (8.66)	510 (20.08)	300 (11.81)	500 (19.69)
Q202018PCIQR	Q202018PCICRCC	200 x 200 (7.87 x 7.87)	188 x 188 x 173 (7.40x7.40 x 6.81)	Q2020PI	160x160 (6.30x6.30)	180x180 (7.09x7.09)	165 (6.50)	150 (5.91)	150 (5.91)	140 (5.51)	140 (5.51)	120 (4.72)	110 (4.33)	100 (3.94)	100 (3.94)
Q302018PCIQR	Q302018PCICRCC	300 x 200 (11.81 x 7.87)	288 x 188 x 173 (11.34x7.40 x 6.81)	Q3020PI	260x160 (10.24x6.30)	280x180 (11.02x7.09)	165 (6.50)	150 (5.91)	250 (9.84)	140 (5.51)	140 (5.51)	120 (4.72)	210 (8.27)	100 (3.94)	200 (7.87)
Q402018PCIQR	Q402018PCICRCC	400 x 200 (15.75 x 7.87)	388 x 188 x 173 (15.28x7.40 x 6.81)	Q4020PI	360x160 (14.17x6.30)	380x180 (14.96x7.09)	165 (6.50)	150 (5.91)	350 (13.78)	140 (5.51)	140 (5.51)	120 (4.72)	310 (12.20)	100 (3.94)	300 (11.81)
Q303018PCIQR	Q303018PCICRCC	300 x 300 (11.81 x 11.81)	288 x 288 x 173 (11.34x11.34 x 6.81)	Q3030PI	260x260 (10.24x10.24)	280x280 (11.02x11.02)	165 (6.50)	250 (9.84)	250 (9.84)	240 (9.45)	240 (9.45)	220 (8.66)	210 (8.27)	200 (7.87)	200 (7.87)
Q403018PCIQR	Q403018PCICRCC	400 x 300 (15.75 x 11.81)	388 x 288 x 173 (15.28x11.34 x 6.81)	Q4030PI	360x260 (14.17x10.24)	380x280 (14.96x11.02)	165 (6.50)	250 (9.84)	350 (13.78)	240 (9.45)	240 (9.45)	220 (8.66)	310 (12.20)	200 (7.87)	300 (11.81)
Q603018PCIQR	Q603018PCICRCC	600 x 300 (23.62 x 11.81)	588 x 288 x 173 (23.15x11.34 x 6.81)	Q6030PI	560x260 (22.05x10.24)	580x280 (22.83x11.02)	165 (6.50)	250 (9.84)	550 (21.65)	240 (9.45)	240 (9.45)	220 (8.66)	510 (20.08)	200 (7.87)	500 (19.69)
Q604018PCIQR	Q604018PCICRCC	600 x 400 (23.62 x 15.75)	588 x 388 x 173 (23.15 x 15.28 x 6.81)	Q6040PI	560x360 (22.05x14.17)	580x380 (22.83x14.96)	165 (6.50)	350 (13.78)	550 (21.65)	340 (13.39)	340 (13.39)	220 (8.66)	510 (20.08)	300 (11.81)	500 (19.69)

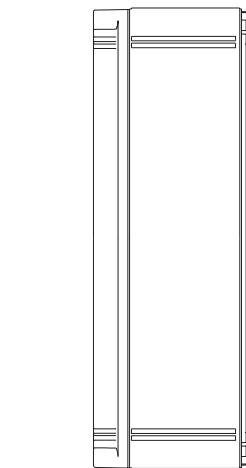
Inch dimensions in ( ).  
\* Panels and Extension Rings must be ordered separately.

# QLINE® I Polycarbonate and ABS Type 4X Enclosures

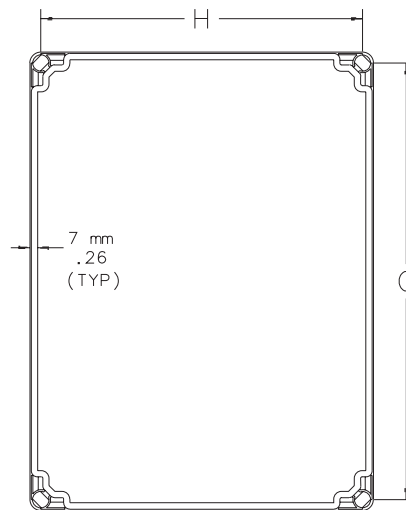
## ■ Screw Cover Enclosures



TOP VIEW

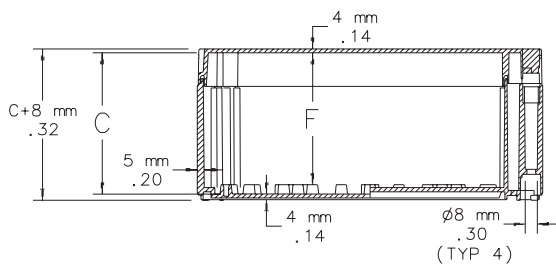


SIDE VIEW



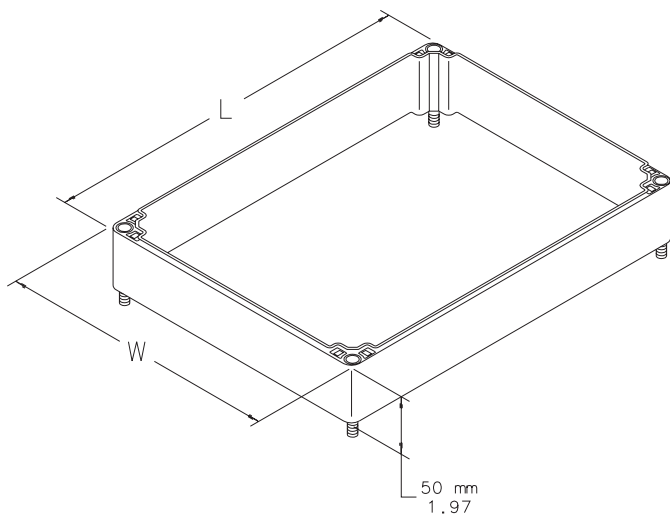
87415075

BOTTOM VIEW

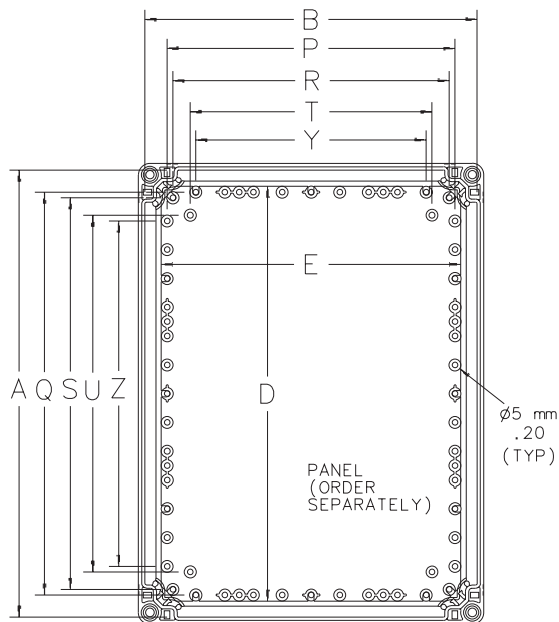


SECTION C-C

- NOTES: 1. Panel screws are MS pan head.  
2. Enclosures with C = 173mm (6.81 in.) include 50mm (1.97 in.) extension ring.

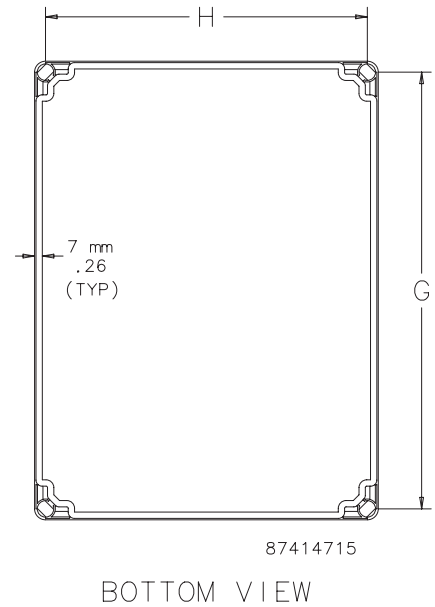
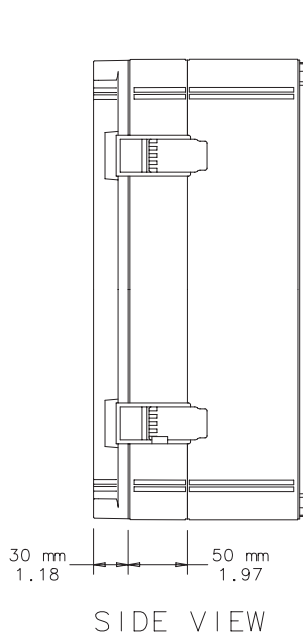
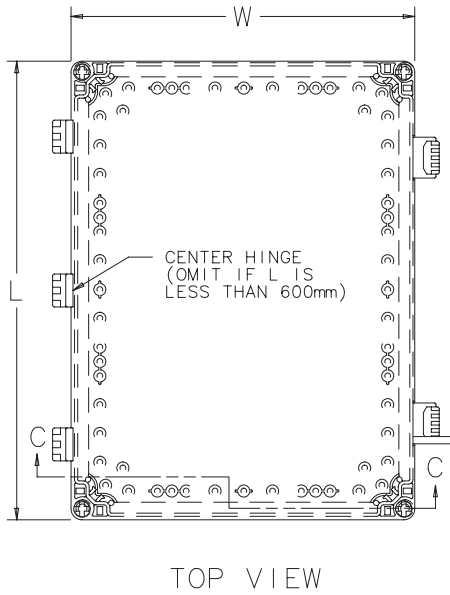


OPTIONAL EXTENSION RING

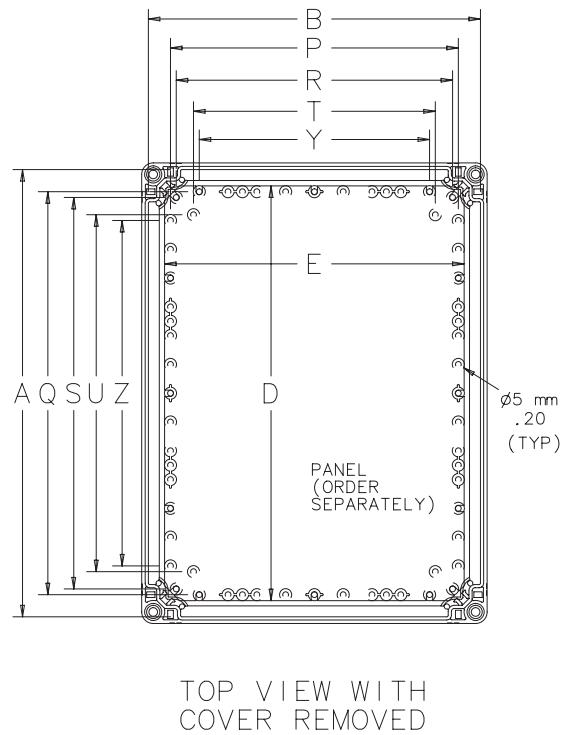
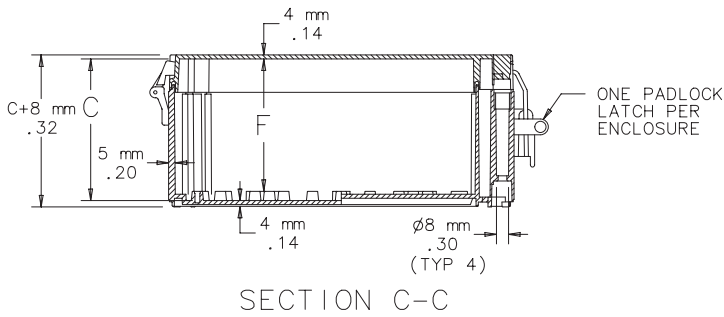


TOP VIEW WITH  
COVER REMOVED

■ Enclosures with Quick Release Latches



NOTE: Panel screws are MS pan head.

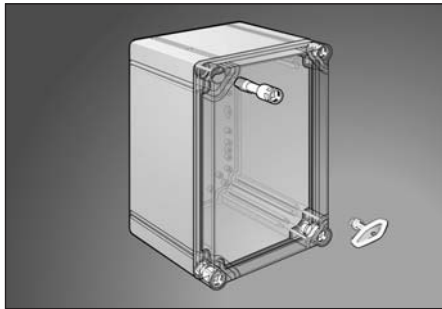




A Pentair Company

Rev. A October 2004

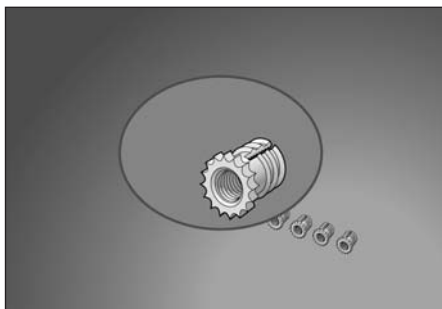
# QLINE® I Polycarbonate and ABS Type 4X Accessories



### Cover Screw Kit

Screws are polyamide. Wing-head-style screws provide rapid access to enclosure interior without requiring special tools to open. Kit includes four polyamide cover screws. Tamper-resistant screws have molded 3mm double-bit drive; kit includes four screws and one key.

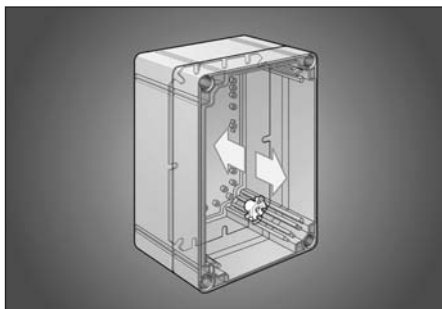
Catalog Number	Description
QIWHSK	wing-head screw
QITSK	3mm tamper-resistant double-bit



### Brass Insert Kit

Four M5 self-tapping brass inserts screw into molded pads in bottom of enclosure. Inserts have M3 internal thread.

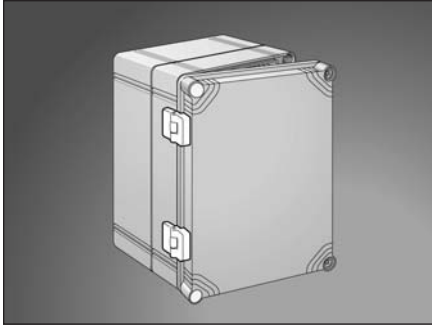
Catalog Number
QBIK



### Panel Depth Fitting

attaches to corner molded rails of enclosure to facilitate full-range front-to-back panel adjustment. Package includes four polyamide fittings and zinc-plated screws.

Catalog Number
QIPDF

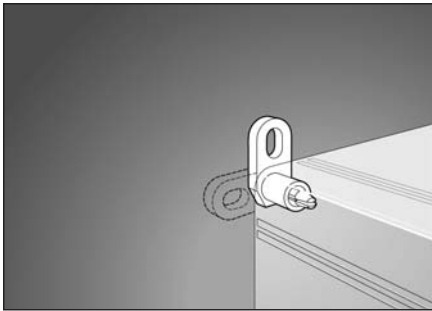


**Hinge Kit**

includes two polyamide hinges, eight M4 self-tapping zinc plated screws, eight flat washers, and drilling template.

NOTE: Kit may not meet Type 4 requirements and should therefore be verified by customer.

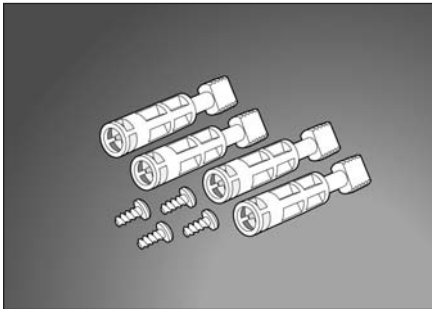
Catalog Number
QIHK



**Mounting Bracket Kit**

has four polycarbonate brackets and four M3 self-tapping zinc-plated screws. Kit is field installable. Maintains listed ratings for enclosure.

Catalog Number
QIMFK



**Hardware Kit**

includes four polyamide cover screws and four M5 self-tapping zinc-plated panel screws. This kit is offered as a replacement kit for lost or damaged hardware originally furnished with the enclosure.

Catalog Number	Description
QIHK424	42mm screw



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






Rev. A October 2004

# QLINE® I Polycarbonate and ABS Enclosures Selection Matrix

## Accessory Selection Matrix QLINE® I Polycarbonate and ABS Type 4X Enclosures

External Dimensions L   W		Enclosures				Accessories		
		Opaque Cover Polycarbonate	Opaque Cover ABS	Clear Cover Polycarbonate	Clear Cover ABS	Panel	Extension Ring <sup>a</sup>	Cover Screw Kit
200	200	Q202013PCI Q202013PCIQR Q202013PCCEMC	Q202013ABI	Q202013PCICC Q202013PCIQRCC	Q202013ABICC	Q2020PI	Q2020EXTI	QIWHSK or QITSK
200	200	Q202018PCI Q202018PCIQR	Q202018ABI	Q202018PCICC Q202018PCIQRCC	Q202018ABICC	Q2020PI	Q2020EXTI	
300	200	Q302013PCI Q302013PCIQR Q302013PCCEMC	Q302013ABI	Q302013PCICC Q302013PCIQRCC	Q302013ABICC	Q3020PI	Q3020EXTI	
300	200	Q302018PCI Q302018PCIQR	Q302018ABI	Q302018PCICC Q302018PCIQRCC	Q302018ABICC	Q3020PI	Q3020EXTI	
400	200	Q402013PCI Q402013PCIQR Q402013PCCEMC	Q402013ABI	Q402013PCICC Q402013PCIQRCC	Q402013ABICC	Q4020PI	Q4020EXTI	
400	200	Q402018PCI Q402018PCIQR	Q402018ABI	Q402018PCICC Q402018PCIQRCC	Q402018ABICC	Q4020PI	Q4020EXTI	
300	300	Q303013PCI Q303013PCIQR Q303013PCCEMC	Q303013ABI	Q303013PCICC Q303013PCIQRCC	Q303013ABICC	Q3030PI	Q3030EXTI	
300	300	Q303018PCI Q303018PCIQR	Q303018ABI	Q303018PCICC Q303018PCIQRCC	Q303018ABICC	Q3030PI	Q3030EXTI	
400	300	Q403013PCI Q403013PCIQR	Q403018ABI	Q403013PCICC Q403013PCIQRCC	Q403013ABICC	Q4030PI	Q4030EXTI	
400	300	Q403018PCI Q403018PCIQR	Q403018ABI	Q403018PCICC Q403018PCIQRCC	Q403018ABICC	Q4030PI	Q4030EXTI	
600	300	Q603013PCI Q603013PCIQR	Q603013ABI	Q603013PCICC Q603013PCIQRCC	Q603013ABICC	Q6030PI	Q6030EXTI	
600	300	Q603018PCI Q603018PCIQR	Q603018ABI	Q603018PCICC Q603018PCIQRCC	Q603018ABICC	Q6030PI	Q6030EXTI	
600	400	Q604013PCI Q604013PCIQR	Q604013ABI	Q604013PCICC Q604013PCIQRCC	Q604013ABICC	Q6040PI	Q6040EXTI	
600	400	Q604018PCI Q604018PCIQR	Q604018ABI	Q604018PCICC Q604018PCIQRCC	Q604018ABICC	Q6040PI	Q6040EXTI	

<sup>a</sup> Not suitable for enclosures with quick-release latches.

							
Brass Insert Kit	Panel Extenders	Panel Depth Fitting	Hinge Kit	Mounting Bracket Kit	Hardware Kit	External Dimensions	
						L	W
QBIK	QIPE15, QIPE20, or QIPE30	QIPDF	QIHK	QIMFK	QIHK42	200	200
						200	200
						300	200
						300	200
						400	200
						400	200
						300	300
						300	300
						400	300
						400	300
						600	300
						600	300
						600	400
						600	400