



***Instant*emcor**[®]

www.crenlo.com/enclosures | 507-287-3535

We see enclosures differently.[™]



As an industry leader in the design, manufacture and integration of high-quality enclosures, Emcor offers a range of standard and custom products for virtually any application. The only thing stronger than our enclosures is our commitment to customer satisfaction. At Emcor, we see enclosures differently.

Emcor enclosures are designed and manufactured by Crenlo.

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About Crenlo:

Crenlo is a leading manufacturer within the industries it serves under its two respective businesses: Crenlo cab and roll-over protective structures (ROPS) and Emtor enclosures.

Crenlo's cab business serves top OEM construction, agriculture and commercial equipment manufacturers with over 55 years experience as the leading North American manufacturer of operator cabs and ROPS. Under Crenlo's Emtor enclosure business, top companies in the technology, aerospace, data communications, test and measurement and defense industries put trust in the Emtor brand to meet exacting standards with high-quality dependable solutions for protecting electronic equipment with enclosures, consoles and custom solutions. Since its founding, Crenlo has been committed to its customers, striving to provide "best in class" product design, tooling services and manufacturing engineering excellence.

Crenlo's Objective Is To:

Define our customers' quality requirements and to produce products and services that meet or exceed those expectations. Crenlo is committed to improvement through education, process advancements, and problem prevention.



Corporate Sales Office & Show Room



*Instant*emcor[®]

Quick Ship Program

Here is how it works:

Choose what you need from a selection of our best selling product lines.

We will paint it the color* you want, and then we will assemble it for you.

The best part is that it ships in just 3 days.

Instant Emcor is the most flexible quick ship program in the industry.

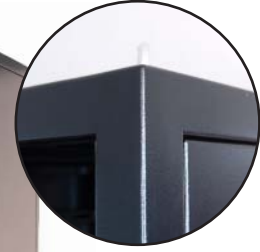


Corner Detail



ESQ Product Line

Fully Welded
Light Duty Construction



Corner Detail



10 Series Product Line

Fully Welded
Heavy Duty Construction

**Choose from one of Emcor's nine proprietary colors.*

How to Use this Catalog

Since Emcor uses a modular approach to all of its enclosure systems, each component of the enclosure is ordered separately. This process allows for a vast number of choices in the final appearance and function of the enclosure or console. Simply follow the steps listed below to develop the product that fulfills your requirements.

1 SELECT A FRAME STYLE AND PART NUMBER
Because the basic building block is the frame it will be your first selection.

2 REVIEW THE EASY ORDERING GUIDE
Once you have selected a frame part number, locate it in the ordering guide. Note that the ordering guide is organized so that compatible accessories are listed to the right of the frame part numbers. If you cannot find the item desired, contact your area Emcor representative or the Emcor factory sales office.

When you are ready to write your order, refer to the sample order entry form and information listed on the following page. Use this guide to assure all the necessary information is provided so that your order may be processed without delay.

3 ORDER YOUR ENCLOSURE
Now that your order is written, you can place it by either emailing, calling, faxing, or mailing, your order to the Emcor sales office or your area Emcor representative. Formal confirming purchase order paperwork is requested for all orders.

Issue Orders To

All correspondence and Purchase Orders should be addressed to:

Crenlo | Emcor
1600 4th Avenue N.W.
Rochester, MN 55901

OR ADDRESS TO:

Crenlo | Emcor
In care of your area representative

Terms of Sale

\$150.00 minimum order.
F.O.B. our plant, Rochester, Minnesota
Net 30 days from date of invoice - with approved credit.

Order Entry Form

The sample below contains the information needed to efficiently process your order.

Page 1 of 8

Customer Name _____ P.O. _____

Order Entered By _____ Date _____

Order Taken By _____ Date _____

Emcor Order Entry Form

Buyer Name	_____
Buyer Phone	_____
Email 1	_____
Email 2	_____
Customer Code	_____
Sales Order	_____
Project Number	_____
Sales Hold Code	_____

Bill To	_____

Ship To	_____

Ship Via	<input type="checkbox"/> PPD <input type="checkbox"/> Collect <input type="checkbox"/> COD <input type="checkbox"/> 3rd Party Bill <input type="checkbox"/> PPL
Quoted Ship Date	_____

Credit Card #	_____
Card Holder Name	_____
Expiration Date	_____

How did you hear about us?		
<input type="checkbox"/> Existing Customer	<input type="checkbox"/> Internet	<input type="checkbox"/> Advertisement
<input type="checkbox"/> Referral	<input type="checkbox"/> Tradeshow	

Market	Product Type	Commissions
<input type="checkbox"/> Aerospace/ATC	<input type="checkbox"/> Standard	Rep _____
<input type="checkbox"/> Broadcast	<input type="checkbox"/> Modified	% _____
<input type="checkbox"/> Datacom/Telecom	<input type="checkbox"/> Custom	
<input type="checkbox"/> Defense/Military		
<input type="checkbox"/> Education/Research	Order Type	Rep _____
<input type="checkbox"/> Energy	<input type="checkbox"/> Standard	% _____
<input type="checkbox"/> Kisok	<input type="checkbox"/> Instant Emcor	
<input type="checkbox"/> Material Handling	<input type="checkbox"/> 24 HR	
<input type="checkbox"/> Medical/Health	<input type="checkbox"/> Special New	Rep _____
<input type="checkbox"/> Reseller	<input type="checkbox"/> Special Reissue	% _____
<input type="checkbox"/> Security	Tax Status	
<input type="checkbox"/> Semi-conductor	<input type="checkbox"/> For Resale	
<input type="checkbox"/> Simulator/Training	<input type="checkbox"/> Not Taxable	
<input type="checkbox"/> Systems Integrator	<input type="checkbox"/> Exempt	
<input type="checkbox"/> Test/Measurement	<input type="checkbox"/> Taxable	
<input type="checkbox"/> Transportation		

Special Instructions	_____

Emcor® Enclosures are Designed and Manufactured by Crenlo®
 Crenlo | 1800 4th Avenue NW | Rochester, MN 55901
 507-289-3371 (phone) | 507-287-3405 (fax) | www.crenlo.com

Form No. 12098.05.10
www.emcorenclosures.com

Note

New customers may be required to provide credit references.
 Contact the factory, or your local representative, for specific details.

ISO 9001:2000 Certified

What contributes to Emcor's high quality design and construction?

MATERIALS:

The highest quality steel, in 16, 14, and 11 gauge material, is used in the fabrication of all Emcor enclosures.

FASTENING:

Emcor utilizes captive clip nuts and hardened Phillips head machine screws for fastening panels and other equipment. This method produces superior fastening strength and allows for quick and easy assembly.

WELDING:

All frames are constructed using electronically controlled resistance welders to insure uniform strong welds. Emcor welds are constructed using a gas metal arc welding process for the highest attainable weld quality.

FINISHING:

Emcor offers nine(9) paint colors to choose from in a powder paint finish. Two overhead conveyor paint lines are designed for parts 84"l x 42"w x 53"h. Additionally, we have a floor based system that is capable of handling items up to 8'l x 7'w x 8'h. Our modern paint laboratory allows us to perform a full range of physical testing such as salt spray, humidity, and hardness. In addition, cosmetic testing, such as film thickness, gloss, and color differences are monitored.

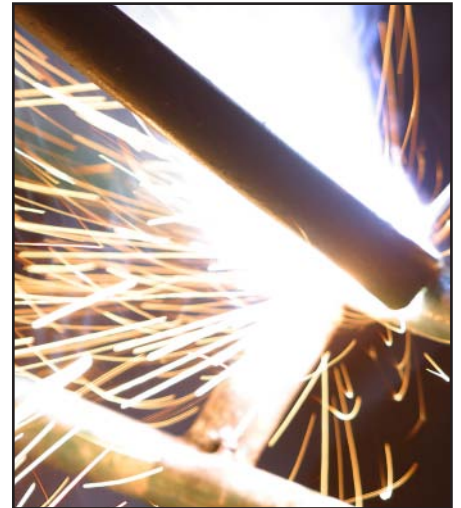
If you require a custom paint color, we will match your paint chip or any Federal Standard 595 color with the assistance of our digital color computer to guarantee you a consistent color match every time. Contact the factory for pricing and details.

QUALITY CONTROL:

As an ISO 9001:2000 company, Crenlo ensures conformance to high quality manufacturing standards in all elements of the fabrication process. Manufacturing process controls are utilized from the moment raw material is received and continue through final product assembly and inspection. Dimensional accuracy is statistically audited and verified throughout the cycle with the aid of three state-of-the-art coordinated measuring machines.

RoHS COMPLIANCY

Crenlo can verify RoHS compliance upon request.



Note

The dimensional drawings that are shown on the following pages are for your reference only and depict the dimensions that are normally required in specifying and ordering enclosures. Detailed engineering drawings are available on request.



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- Side Panels
- Doors
- Top Options
- Equipment Support Options
- Grounding Option

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- Paint Options
- Closure Panels
- Wire Management
- Power Options
- Fan and Blower Options
- Casters
- Levelers
- Hardware

ESQ Product Line

Overview

The ESQ Enclosure System is your choice for applications requiring a clean contemporary appearance and an efficient means for housing your electronic equipment. ESQ enclosures provide the benefits of economy, style and quality.

Features & Benefits

- Modular
- Fully welded construction
- Static Load capacity of 800 pounds
- 14 gauge and 16 gauge material
- Available in 19" panel widths
- 12U to 45U vertical panel openings (VPO)
- Overall depth options of 25 1/2" and 30 3/4"
- Adjustable mounting angles with rack unit markings

Frames

Frames

The highest quality cold rolled steel is used in the fabrication of all ESQ frames. Crossties, frame channels, and pontoon bases are made of 14-gauge steel; adjustable mounting angles are made of 11-gauge steel; other frame parts are made of 16-gauge steel. ESQ frames are fully welded and can handle 800 lbs. of equipment evenly distributed in the frame.

All ESQ Frames Include:

- Hardware kit
- Pontoon base
- 2 pair adjustable EIA pattern thru hole panel mounting angles on the front and rear openings
- Fixed mounting angles are placed in the top openings of all frames.*

Note

Panel Mounting Angles - Tapped (threaded) mounting angles are available. The tapped mounting angles will be mounted in the position from which you deleted the non-tapped mounting angles, unless otherwise stated.

Vertical Frame Part Numbers & Dimensions

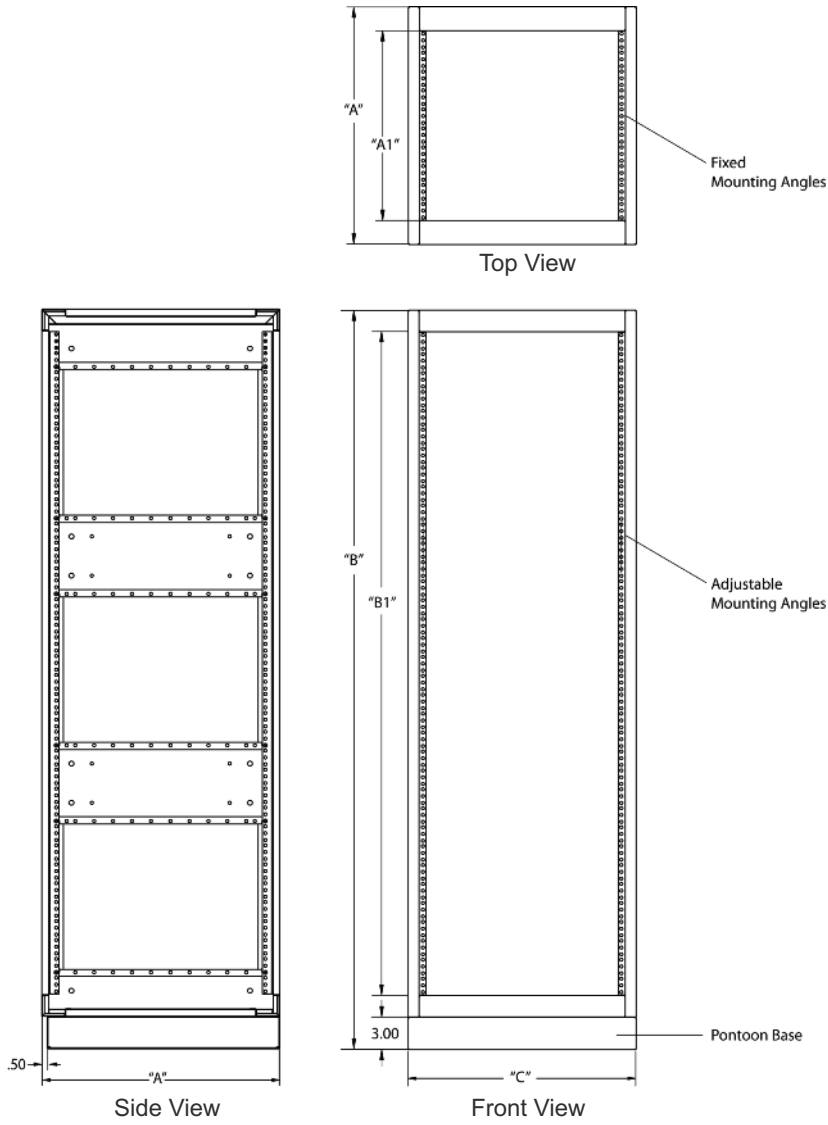
19" Wide	C	A	A1	B	B1	Struts
ICSFR-105A	21.063	25.500	21.062 12U	29.500	21.063 12U	2
ICSFR-115A	21.063	25.500	21.062 12U	36.500	28.063 16U	3
ICSFR-725A	21.063	30.750	26.312 15U	59.625	52.625 30U	3
ICSFR-726A	21.063	30.750	26.312 15U	68.375	61.375 35U	4
ICSFR-727A	21.063	30.750	26.312 15U	77.125	70.125 40U	4
ICSFR-728A	21.063	30.750	26.312 15U	85.875	78.875 45U	4

Section View Dimensions

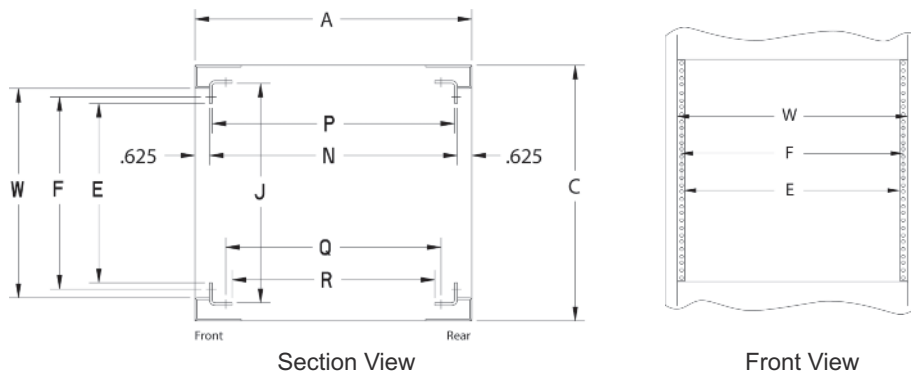
ESQ	C	A	W	F	E	J	P	N	Q	R
25" Deep		25.500					24.010	24.250	22.836	22.286
30" Deep		30.750					29.260	29.500	28.086	27.536
19" Wide	21.063		19.062	18.310	17.760	19.484				

Frames

Vertical Frames



Section Views



19" Wide Frames

Mounting Angle Options

Frame	Panel Mounting Angles [12]				Mounting Straps [12]	
	Thru-Hole		Tapped 1 Face		Thru-Hole	
	Front (pr)	Rear (pr)	Front (pr)	Rear (pr)	Front (pr)	Rear (pr)
	Supplied with frame					
Vertical						
ICSFR-105A	PMA-21A	PMA-21A	PMA-21A-1032-1	PMA-21A-1032-1	MS-21	MS-21
ICSFR-115A	PMA-28A	PMA-28A	PMA-28A-1032-1	PMA-28A-1032-1	MS-28	MS-28
ICSFR-725A	PMA-52A	PMA-52A	PMA-52A-1032-1	PMA-52A-1032-1	MS-52	MS-52
ICSFR-726A	PMA-61A	PMA-61A	PMA-61A-1032-1	PMA-61A-1032-1	MS-61	MS-61
ICSFR-727A	PMA-70A	PMA-70A	PMA-70A-1032-1	PMA-70A-1032-1	MS-70	MS-70
ICSFR-728A	PMA-78A	PMA-78A	PMA-78A-1032-1	PMA-78A-1032-1	MS-78	MS-78

19" Wide Frames

Side Panel Options

Frame	Side Panels [13]			
	Formed Inside Removable - Solid		Formed Inside Removable - Louvered	
	Left	Right	Left	Right
Vertical				
ICSFR-105A	ICSSP-105A	ICSSP-105A	ICSSP-105A-LV	ICSSP-105A-LV
ICSFR-115A	ICSSP-115A	ICSSP-115A	ICSSP-115A-LV	ICSSP-115A-LV
ICSFR-725A	ICSSP-725A	ICSSP-725A	ICSSP-725A-LV	ICSSP-725A-LV
ICSFR-726A	ICSSP-726A	ICSSP-726A	ICSSP-726A-LV	ICSSP-726A-LV
ICSFR-727A	ICSSP-727A	ICSSP-727A	ICSSP-727A-LV	ICSSP-727A-LV
ICSFR-728A	ICSSP-728A	ICSSP-728A	ICSSP-728A-LV	ICSSP-728A-LV

19" Wide Frames

Top Options

Frame	Top Panels [39]				Single Fan Panels [16]
	Solid	Perforated	Louvered	Aluminum	
Vertical					
ICSFR-105A	CXPN-2119	CXPN-2119-PA	CXPN-2119-LV	CXPN-2119-A	CXPN-2119-FP
ICSFR-115A	CXPN-2119	CXPN-2119-PA	CXPN-2119-LV	CXPN-2119-A	CXPN-2119-FP
ICSFR-725A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A	CXPN-2619-FP
ICSFR-726A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A	CXPN-2619-FP
ICSFR-727A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A	CXPN-2619-FP
ICSFR-728A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A	CXPN-2619-FP

ESQ

19" Wide Frames

Bottom Options

Frame	Bottom Panels [39]			
	Solid	Perforated	Louvered	Aluminum
Vertical				
ICSFR-105A	CXPN-2119	CXPN-2119-PA	CXPN-2119-LV	CXPN-2119-A
ICSFR-115A	CXPN-2119	CXPN-2119-PA	CXPN-2119-LV	CXPN-2119-A
ICSFR-725A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A
ICSFR-726A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A
ICSFR-727A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A
ICSFR-728A	CXPN-2619	CXPN-2619-PA	CXPN-2619-LV	N/A

19" Wide Frames

Flush Door Options

Frame	Flush Doors [14]					
	Flush Door					
	Front			Rear		
	(1) Block Indicate: H - Handle with Lock	(2) Block Indicate: S - Solid V - Vented	(3) Block Indicate: R - Right Hinge L - Left Hinge	(1) Block Indicate: H - Handle with Lock	(2) Block Indicate: S - Solid V - Vented	(3) Block Indicate: R - Right Hinge L - Left Hinge
Vertical						
ICSFR-105A		ICDF-(1)(2)(3)-2119			ICDF-(1)(2)(3)-2119	
ICSFR-115A		ICDF-(1)(2)(3)-2819			ICDF-(1)(2)(3)-2819	
ICSFR-725A		ICDF-(1)(2)(3)-5219			ICDF-(1)(2)(3)-5219	
ICSFR-726A		ICDF-(1)(2)(3)-6119			ICDF-(1)(2)(3)-6119	
ICSFR-727A		ICDF-(1)(2)(3)-7019			ICDF-(1)(2)(3)-7019	
ICSFR-728A		ICDF-(1)(2)(3)-7819			ICDF-(1)(2)(3)-7819	

19" Wide Frames

Surface Door Options

Frame	Surface Doors [15]	
	Surface Door	
	Front	Rear
	(1) Block Indicate: S - Solid V - Vented	(2) Block Indicate: R - Right Hinge L - Left Hinge
Vertical		
ICSFR-105A	ICDS-E(1)(2)-2119	ICDS-E(1)(2)-2119
ICSFR-115A	ICDS-E(1)(2)-2819	ICDS-E(1)(2)-2819
ICSFR-725A	ICDS-E(1)(2)-5219	ICDS-E(1)(2)-5219
ICSFR-726A	ICDS-E(1)(2)-6119	ICDS-E(1)(2)-6119
ICSFR-727A	ICDS-E(1)(2)-7019	ICDS-E(1)(2)-7019
ICSFR-728A	ICDS-E(1)(2)-7819	ICDS-E(1)(2)-7819

19" Wide Frames

Equipment Support Options

Frame	Chassis Guides [17]		Fixed Equipment Shelves [17]		Monitor Shelves [18]		Pull Out Shelves [17]	Retractable Keyboard Trays [18]	
			Solid	Perforated	Solid	Perforated	Solid	Tray	Hinged Access Panel

Vertical

ICSFR-105A	CCGS-25A	CSH-25A	CSH-25A-PA	CSH-1619	CSH-1619-PA	CCSXQ-25	CRKT-0319-S	CKTAP-0319
ICSFR-115A	CCGS-25A	CSH-25A	CSH-25A-PA	CSH-1619	CSH-1619-PA	CCSXQ-25	CRKT-0319-S	CKTAP-0319
ICSFR-725A	CCGS-31A	CSH-31A	CSH-31A-PA	CSH-1619	CSH-1619-PA	CCSXQ-31	CRKT-0319-S	CKTAP-0319
ICSFR-726A	CCGS-31A	CSH-31A	CSH-31A-PA	CSH-1619	CSH-1619-PA	CCSXQ-31	CRKT-0319-S	CKTAP-0319
ICSFR-727A	CCGS-31A	CSH-31A	CSH-31A-PA	CSH-1619	CSH-1619-PA	CCSXQ-31	CRKT-0319-S	CKTAP-0319
ICSFR-728A	CCGS-31A	CSH-31A	CSH-31A-PA	CSH-1619	CSH-1619-PA	CCSXQ-31	CRKT-0319-S	CKTAP-0319

19" Wide Frames

Power Options

Frame	Power Strips [43]						Power Panels [44]	
	15 Amp Direct Wire		15 Amp Power Cord		20 Amp Power Cord		15 Amp Power Cord	20 Amp Power Cord
	18" (6 outlets)	48" (10 outlets)	18" (6 outlets)	48" (10 outlets)	18" (6 outlets)	48" (10 outlets)	(6 outlets)	(6 outlets)

Vertical

ICSFR-105A	WM-180615-DW	N/A	WM-180615-PC	N/A	WM-180620-PC	N/A	PDU-615R-PC	PDU-620R-PC
ICSFR-115A	WM-180615-DW	N/A	WM-180615-PC	N/A	WM-180620-PC	N/A	PDU-615R-PC	PDU-620R-PC
ICSFR-725A	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICSFR-726A	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICSFR-727A	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICSFR-728A	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC

Mounting Angles & Mounting Straps

Mounting Angles

All ESQ frames include 2 pair (4 total) thru-hole EIA compliant mounting angles constructed of 11-gauge steel. Optional tapped mounting angles are available. The tapped mounting angles have .281" diameter thru-holes on one leg of the mounting angle, and .159" diameter tapped holes (10-32 NF2) on the other leg. All mounting angles and straps are processed to specification ASTM-B633 which calls for electrodeposited zinc plating with a clear chromate conversion coating.

Mounting Angle Part Numbers & Dimensions

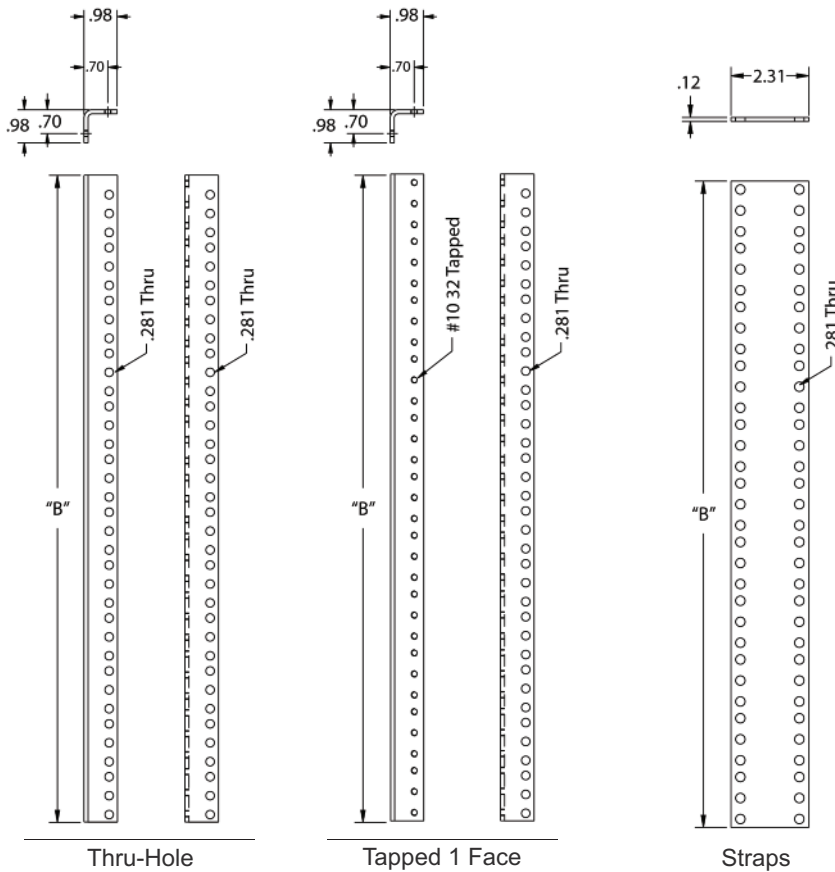
Thru Hole	Tapped 1	B	
PMA-19A	PMA-19A-1032-1	19.250	11U
PMA-21A	PMA-21A-1032-1	21.000	12U
PMA-24A	PMA-24A-1032-1	24.500	14U
PMA-28A	PMA-28A-1032-1	28.000	16U
PMA-35A	PMA-35A-1032-1	35.000	20U
PMA-40A	N/A	40.250	23U
PMA-42A	N/A	42.000	24U
PMA-43A	PMA-43A-1032-1	43.750	25U
PMA-45A	N/A	45.500	26U
PMA-49A	N/A	49.000	28U
PMA-52A	PMA-52A-1032-1	52.500	30U
PMA-61A	PMA-61A-1032-1	61.250	35U
PMA-70A	PMA-70A-1032-1	70.000	40U
PMA-78A	PMA-78A-1032-1	78.750	45U

Mounting Strap Part Numbers & Dimensions

Thru-Hole	B	
MS-19	19.250	11U
MS-21	21.000	12U
MS-24	24.500	14U
MS-28	28.000	16U
MS-42	42.000	24U
MS-43	43.750	25U
MS-52	52.500	30U
MS-61	61.250	35U
MS-70	70.000	40U
MS-78	78.750	45U

Mounting Straps

For intermediate depth mounting needs, ESQ mounting straps constructed of 11-gauge steel provide users with optimal flexibility and utility.



Side Panels

Side Panels

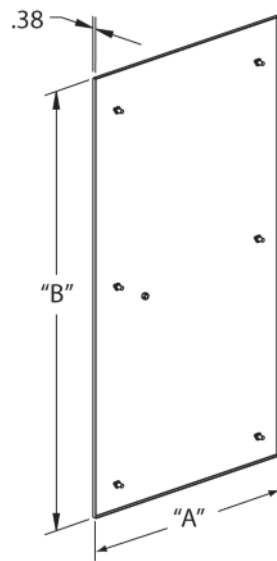
Formed Inside Removable Side Panels are for applications where side access is limited and permanent fastening is needed. Choose from solid or louvered styles.

Note

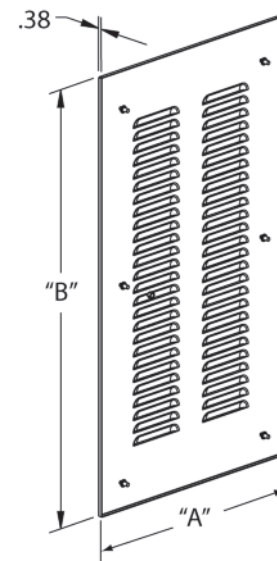
All side panels are surface mounted. Formed inside removable side panels add .375" per side to the overall unit width.

Vertical Frame Side Panel Part Numbers & Dimensions

Formed Inside Removable Solid	Formed Inside Removable Louvered	B	A
ICSSP-105A	ICSSP-105A-LV	26.375	25.250
ICSSP-115A	ICSSP-115A-LV	33.375	25.250
ICSSP-725A	ICSSP-725A-LV	56.437	30.375
ICSSP-726A	ICSSP-726A-LV	65.187	30.375
ICSSP-727A	ICSSP-727A-LV	73.937	30.375
ICSSP-728A	ICSSP-728A-LV	82.687	30.375



Formed Inside Removable Solid

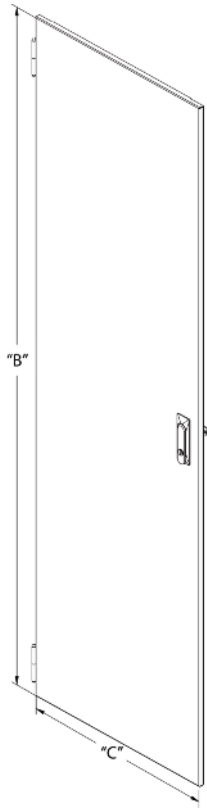


Formed Inside Removable Louvered

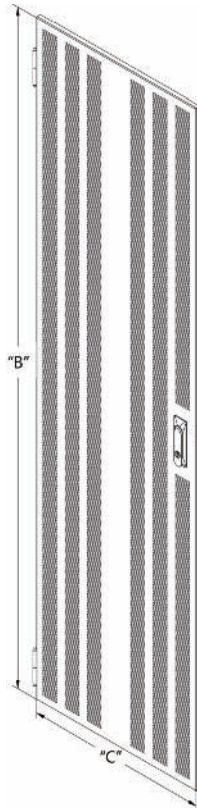
Flush Mount Doors - Locking Handle Style

Flush Mount Doors

Flush mount doors fit into the vertical panel opening of the frame. The doors utilize the mounting angles for an attachment point so the frame is not drilled. Lift-off hinges, in a stylish black finish, allow for quick removal of the door. The contemporary low-profile single point Lockable Handle provides the security your system may need.



Solid



Vented

Solid Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B	
ICDF-HSL-2119	ICDF-HSR-2119	18.835	20.937	12U
ICDF-HSL-2619	ICDF-HSR-2619	18.835	26.250	15U
ICDF-HSL-2819	ICDF-HSR-2819	18.835	27.937	16U
ICDF-HSL-4919	ICDF-HSR-4919	18.835	49.000	28U
ICDF-HSL-5219	ICDF-HSR-5219	18.835	52.500	30U
ICDF-HSL-6119	ICDF-HSR-6119	18.835	61.250	35U
ICDF-HSL-7019	ICDF-HSR-7019	18.835	70.000	40U
ICDF-HSL-7819	ICDF-HSR-7819	18.835	78.750	45U

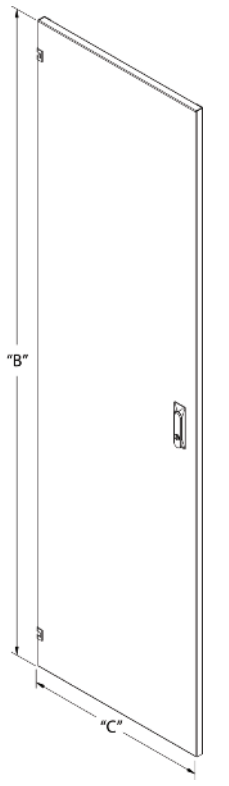
Vented Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B	
ICDF-HVL-2119	ICDF-HVR-2119	18.835	20.937	12U
ICDF-HVL-2619	ICDF-HVR-2619	18.835	26.250	15U
ICDF-HVL-2819	ICDF-HVR-2819	18.835	27.937	16U
ICDF-HVL-4919	ICDF-HVR-4919	18.835	49.000	28U
ICDF-HVL-5219	ICDF-HVR-5219	18.835	52.500	30U
ICDF-HVL-6119	ICDF-HVR-6119	18.835	61.250	35U
ICDF-HVL-7019	ICDF-HVR-7019	18.835	70.000	40U
ICDF-HVL-7819	ICDF-HVR-7819	18.835	78.750	45U

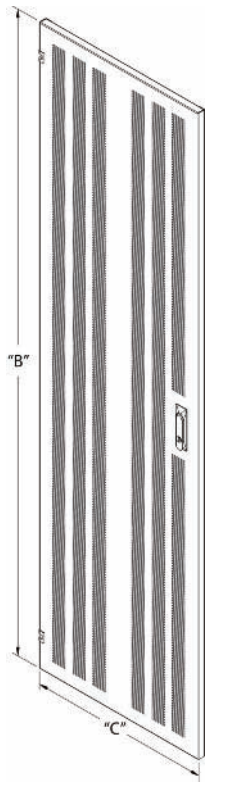
Surface Mount Doors

Surface Mount Doors

Surface mount doors cover the vertical panel opening of the frame. The doors provide a contemporary appearance, featuring a black low-profile lockable single point latch handle and stylized black hinges that allow for 120° of rotation. Surface doors provide the space for mounting equipment behind the door panel. Since the frame must be drilled to accept surface doors, door mounting location must always be supplied at the time of order placement. All surface doors are keyed alike.



Solid



Vented

Solid Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B
ICDS-ESL-2119	ICDS-ESR-2119	20.763	23.469
ICDS-ESL-2819	ICDS-ESR-2819	20.763	30.496
ICDS-ESL-5219	ICDS-ESR-5219	20.763	55.875
ICDS-ESL-6119	ICDS-ESR-6119	20.763	64.625
ICDS-ESL-7019	ICDS-ESR-7019	20.763	73.375
ICDS-ESL-7819	ICDS-ESR-7819	20.763	82.125

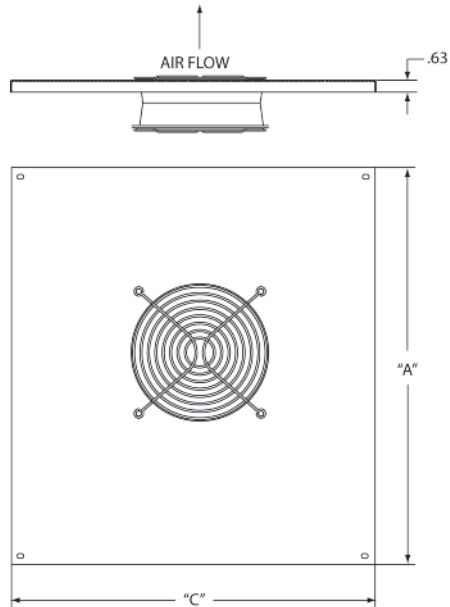
Vented Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B
ICDS-EVL-2119	ICDS-EVR-2119	20.763	23.469
ICDS-EVL-2819	ICDS-EVR-2819	20.763	30.496
ICDS-EVL-5219	ICDS-EVR-5219	20.763	55.875
ICDS-EVL-6119	ICDS-EVR-6119	20.763	64.625
ICDS-EVL-7019	ICDS-EVR-7019	20.763	73.375
ICDS-EVL-7819	ICDS-EVR-7819	20.763	82.125

Top Options

Single Fan Panel Assembly

Single fan panel assemblies are supplied with 2 finger guards and a 72" 18/3 SJ gray power cord material with a NEMA 5-15P 90° right angle molded plug. The fan is UL yellow card recognized. File # E31293 and CSA certified File # LR52898. The fan has a Feathered Edge™ blade for better noise control.



Operating Information

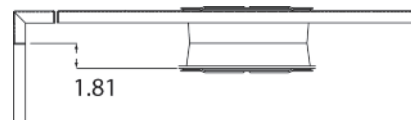
- 550 CFM 115 VAC, 60 HZ at free delivery
- Operating temperature range: -30°C to +60°C
- 10" Diameter Fan Size
- DB-55

Single Fan Panel Assembly Part Numbers & Dimensions

Part Numbers	A	C
CXPN-2119-FP	20.969	19.000
CXPN-2619-FP	26.219	19.000

Note

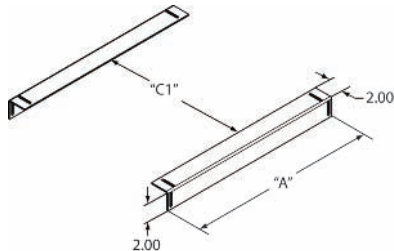
When mounted as a top panel, the fan housing assembly extends into the frame opening by 1.81".



Equipment Support Options

Chassis Guides

Chassis guides are used to support heavy equipment by means of angular steel support members leaving the bottom of the mounted equipment exposed for cooling or servicing. They are sold as pairs and have a load capacity of 200 pounds evenly distributed.



Chassis Guide Part Numbers & Dimensions

Part Numbers	A	C1
CCGS-22A	20.062	15.406
CCGS-25A	23.562	15.406
CCGS-31A	28.812	15.406

Fixed Equipment Shelves

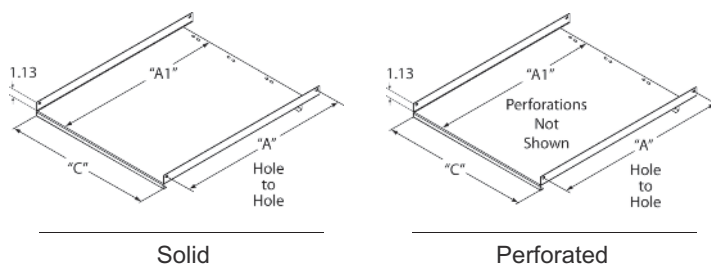
Fixed equipment shelves are designed to fit anywhere in vertical panel openings of all ESQ frames.

The solid style shelf is manufactured of 16-gauge steel and has a load capacity of 125-lbs. evenly distributed.

The perforated style shelf is manufactured of 14-gauge steel with a perforated center to offer air flow. Load capacity - 200-lbs. evenly distributed.

Fixed Equip. Shelf Part Numbers & Dimensions

Solid	Perforated	A	C
CSH-22A	CSH-22A-PA	19.375	19.468
CSH-25A	CSH-25A-PA	22.875	19.468
CSH-31A	CSH-31A-PA	28.125	19.468



Solid

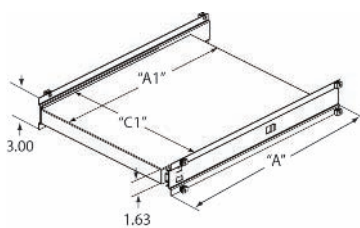
Perforated

Pull Out Shelf

Pull-Out Shelves make it possible to slide equipment in and out of the enclosure for fast, easy accessibility. Slide assemblies are mounted on heavy-duty ball bearing slides for ease of movement. Load capacity - 90-lbs. evenly distributed. Slide Mounting Brackets are painted black.

Pull Out Shelf Part Numbers & Dimensions

Part Numbers	A	A1	C1
CCSXQ-22	20.000	20.250	16.320
CCSXQ-25	23.500	20.250	16.320
CCSXQ-31	28.750	20.250	16.320



Solid

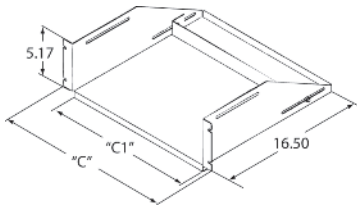
Equipment Support Options

Monitor Shelf

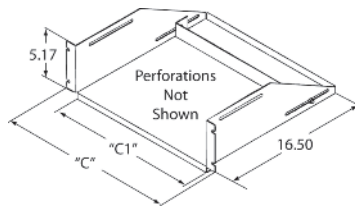
Monitor shelves provide an easy method of mounting non-rack mount style monitors and equipment into the sloped area of slope front frames or into any vertical frame mounting location. These shelves are attached to the front flange of the enclosure's panel mounting angles and require no rear attachment point. Monitor shelves are available in both a solid or perforated option and they carry a 50 lb. load rating. An adjustable bracket is included at the rear of the shelf to position the monitor as required. Additional front-to-rear slots are provided to further secure the monitor as needed by strapping the unit to the shelf...strap not included.

Monitor Shelf Part Numbers & Dimensions

Solid	Perforated	C	C1
CSH-1619	CSH-1619-PA	18.641	16.359



Solid



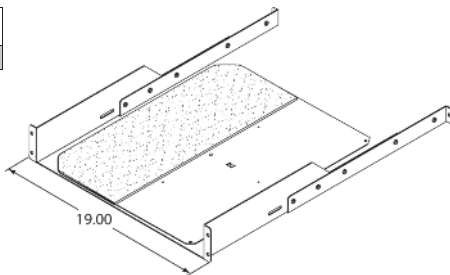
Perforated

Retractable Keyboard Tray Assembly

Emcor's retractable keyboard tray assembly provides users the flexibility to incorporate a full size PC keyboard within a frame's 19" width enclosure opening. The keyboard tray is housed within the enclosure in a "front-to-rear" orientation. To access the keyboard, simply pull the tray outward until it locks into the open position. The keyboard tray can then be rotated 90° and affixed into position for operator use. A low profile mouse pad is incorporated onto the front of the tray across its entire width. In order to stow the keyboard back into the enclosure, rotate the tray 90°, unlatch the locking slide, and retract the assembly back into the frame. The keyboard tray assembly mounts to the mounting angles and occupies only 3.5" (2U) of vertical rack space.

Part Number

CRKT-0319-S

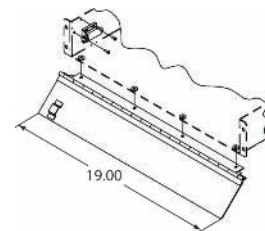


Optional Hinged Access Panel

An optional 3.5" (2U) hinged access panel is available for those users that wish to close off the 2U opening when the keyboard is stowed.

Part Number

CKTAP-0319

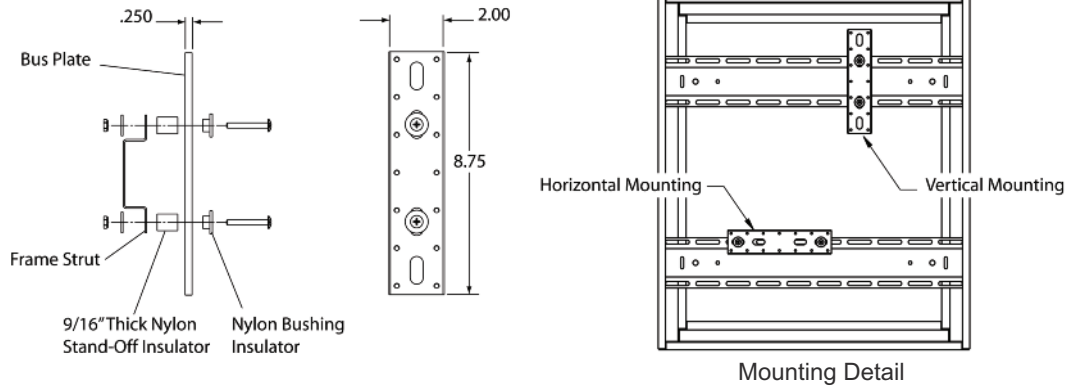


Grounding Options

Ground Bus Plate

Ground bus plates provide equipment grounding capabilities that are unique when compared to the full length bus bars. The copper ground bus plate provides fourteen (14) #10-32 tapped grounding points and mounts directly to the frame strut in a vertical or horizontal position. The designed-in mounting flexibility allows for attachment of the ground bus plate in locations that are much less likely to interfere with full depth internal frame equipment and accessories such as mounting brackets, equipment shelves, chassis guides and others.

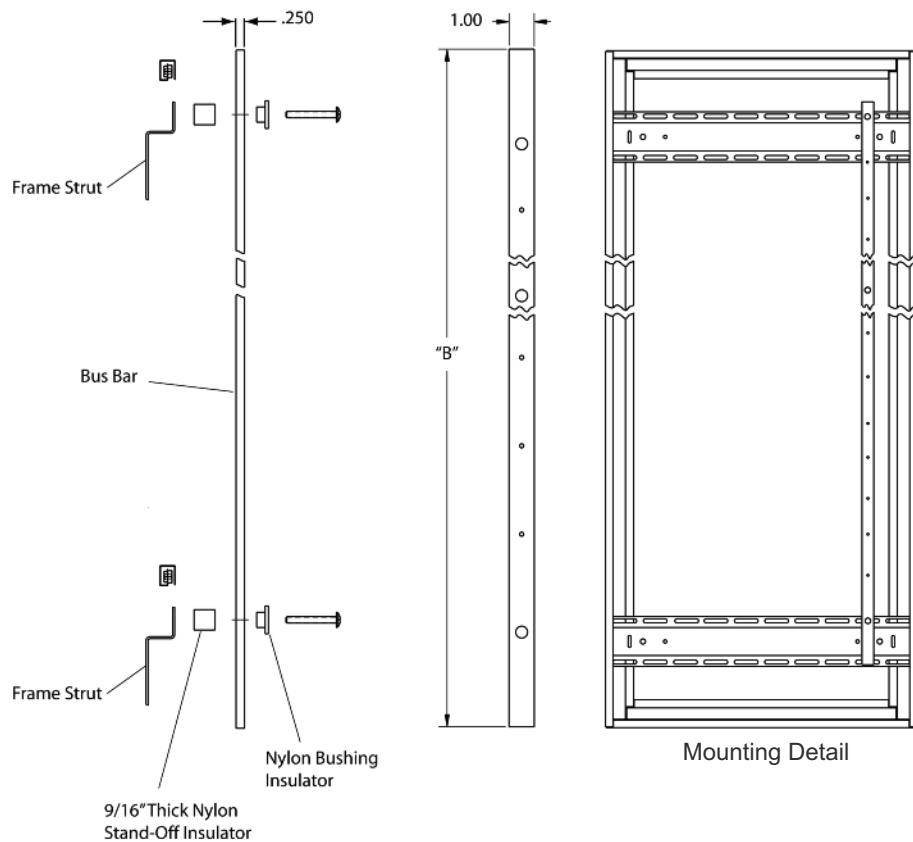
Part Number
GBP-0208



Bus Bars

Emcor offers insulated copper bus bars which attach to the top flange of the upper and lower frame struts. The bus bar is supplied with #10-32 tapped holes on 3.5" centers. **Only full height bus bars will mount to frames. Short height bus bars will not align with frame mounting struts.**

Part Numbers	B
BB-21	21.220
BB-28	28.220
BB-52	52.500
BB-61	61.250
BB-70	70.000
BB-78	78.750



Note

When equipment support items such as shelving or drawers are being mounted in the same frame as a bus bar, the items must be ordered short depth. Please refer to the technical section for more information on short depth equipment.



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Fan and Blower Options	
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Levelers	
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10 SERIES

10 Series Product Line

Overview

The 10 Series Enclosure System is your choice for applications requiring exceptional strength and weight load capabilities while providing contemporary styling.

Features & Benefits

- Modular
- Fully welded construction
- Clean, seamless corner design
- Static Load capacity of 3500 pounds
- 14 gauge and 16 gauge material
- Available in 19" panel widths
- 15U to 45U vertical panel openings (VPO)
- Overall depth options of 26 5/16", 31 9/16", and 36 7/8"
- Adjustable multi-formed mounting angles with rack unit markings

Frames

Frames

The highest quality cold rolled steel is used in the fabrication of all 10 series frames. Mounting angles and frame channels are made of 14-gauge steel; frame bottom gusset plates 11-gauge steel, and frame side struts 16-gauge steel. The optional pontoon base is constructed of 14-gauge steel. 10 series frames are fully welded and offer up to 3500 lbs of evenly distributed equipment mounting in static load conditions.

All 10 Series Frames Include:

Hardware kit

2 pair adjustable EIA pattern thru hole panel mounting angles on the front and rear openings

Fixed mounting angles are placed in the slope and top openings of slope front frames.

Note

Panel Mounting Angles - Tapped (threaded) mounting angles are available. The tapped mounting angles will be mounted in the position from which you deleted the non-tapped mounting angles, unless otherwise stated.

Vertical Frame Part Number and Descriptions

19" Wide	C	A	A1	B	B1		
ICXFR-262619	22.562	26.313	22.813	13U	29.875	26.375	15U
ICXFR-314919	22.562	31.563	28.063	16U	52.625	49.125	28U
ICXFR-316119	22.562	31.563	28.063	16U	64.875	61.375	35U
ICXFR-317019	22.562	31.563	28.063	16U	73.625	70.125	40U
ICXFR-367019	22.562	36.875	33.375	19U	73.625	70.125	40U
ICXFR-317819	22.562	31.563	28.063	16U	82.375	78.875	45U

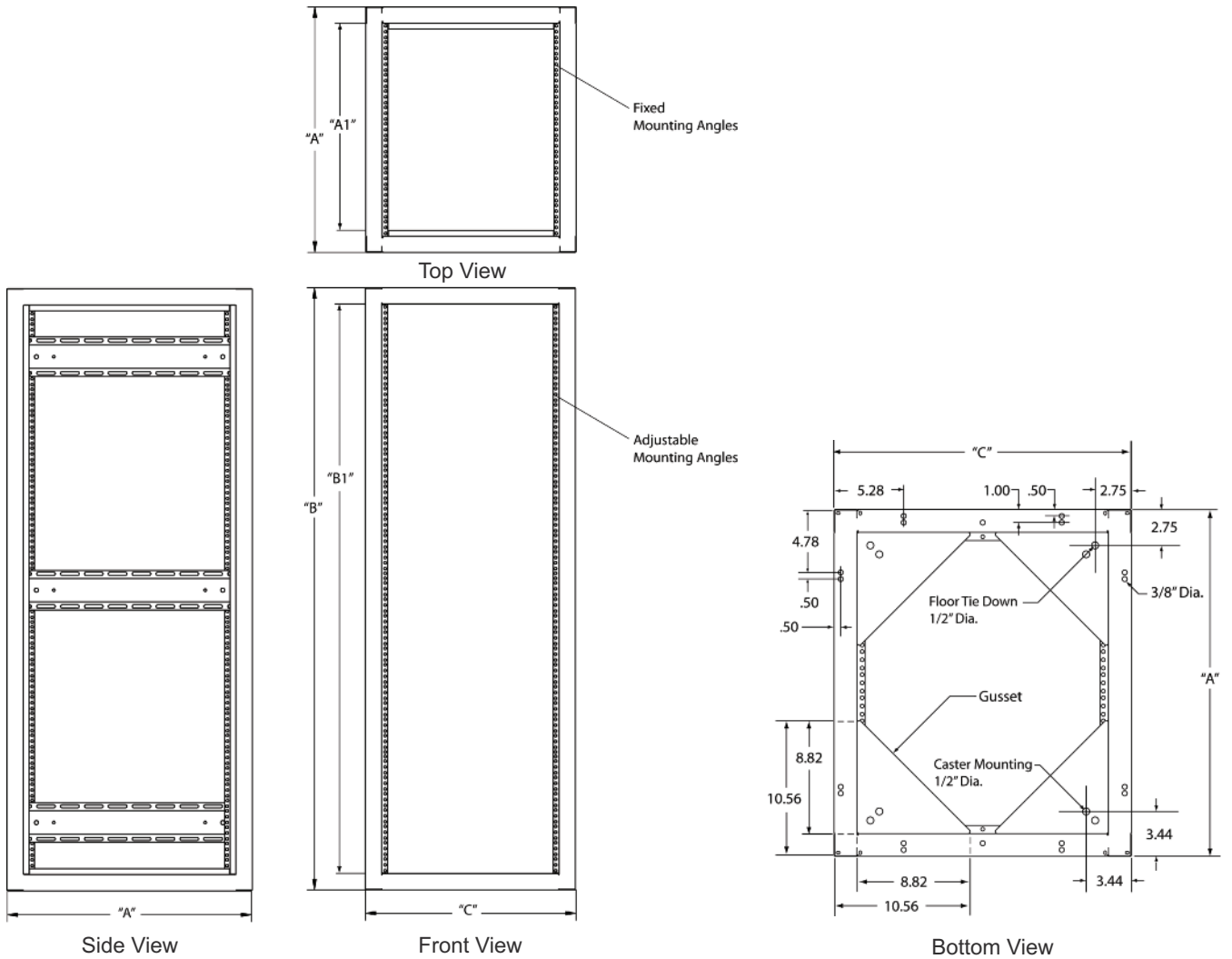
Section View Dimensions

10 Series	C	A	W	F	E	J	P	N	Q	R
26" Deep		26.313					24.912	25.062	20.936	20.436
31" Deep		31.563					30.162	30.312	26.186	25.686
36" Deep		36.875					35.475	35.625	31.499	30.999
19" Wide	22.562		19.062	18.310	17.810	17.984				

10 SERIES

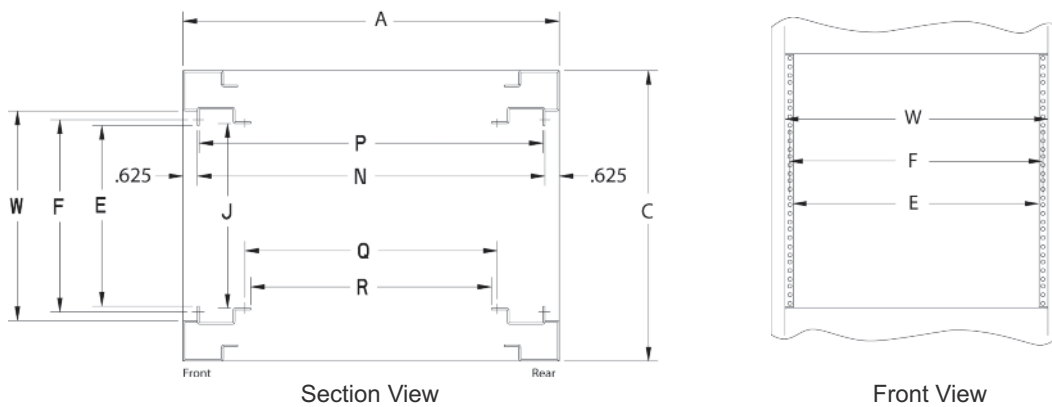
Frames

Vertical Frames



10 SERIES

Section View



19" Wide Frames

Mounting Angle Options

Frame	Panel Mounting Angles [28]				Mounting Straps [28]	
	Thru-Hole		Tapped 1 Face		Thru-Hole	
	Front (pr)	Rear (pr)	Front (pr)	Rear (pr)	Front (pr)	Rear (pr)
	Supplied with frame					
Vertical						
ICXFR-262619	XMA-26	XMA-26	XMA-26-T	XMA-26-T	XMS-26	XMS-26
ICXFR-314919	XMA-49	XMA-49	XMA-49-T	XMA-49-T	XMS-49	XMS-49
ICXFR-316119	XMA-61	XMA-61	XMA-61-T	XMA-61-T	XMS-61	XMS-61
ICXFR-317019	XMA-70	XMA-70	XMA-70-T	XMA-70-T	XMS-70	XMS-70
ICXFR-367019	XMA-70	XMA-70	XMA-70-T	XMA-70-T	XMS-70	XMS-70
ICXFR-317819	XMA-78	XMA-78	XMA-78-T	XMA-78-T	XMS-78	XMS-78

10 SERIES

19" Wide Frames

Side Panel Options

Frame	Side Panels [29]							
	Outside Removable Solid		Outside Removable Vented		Latch Style			
	Left	Right	Left	Right	Wing	Slotted	Keyed	Twist
	Outside removable side panels require a latch style to be selected. Choose from one of four styles to the right. Two per side panel.		Outside removable side panels require a latch style to be selected. Choose from one of four styles to the right. Two per side panel.					
Vertical								
ICXFR-262619	ICXSP-2626-S	ICXSP-2626-S	ICXSP-2626-V	ICXSP-2626-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST
ICXFR-314919	ICXSP-3149-S	ICXSP-3149-S	ICXSP-3149-V	ICXSP-3149-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST
ICXFR-316119	ICXSP-3161-S	ICXSP-3161-S	ICXSP-3161-V	ICXSP-3161-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST
ICXFR-317019	ICXSP-3170-S	ICXSP-3170-S	ICXSP-3170-V	ICXSP-3170-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST
ICXFR-367019	ICXSP-3670-S	ICXSP-3670-S	ICXSP-3670-V	ICXSP-3670-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST
ICXFR-317819	ICXSP-3178-S	ICXSP-3178-S	ICXSP-3178-V	ICXSP-3178-V	LATCH/WING	LATCH/SLOTTED	LATCH/KEYED	LATCH/TWIST

19" Wide Frames

Top Options

Frame	Top Panels [39]				Single Fan Panels [32]
	Solid	Perforated	Louvered	Aluminum	

Vertical					
ICXFR-262619	CXPN-2219	CXPN-2219-PA	CXPN-2219-LV	CXPN-2219-A	CXPN-2219-FP
ICXFR-314919	CXPN-2819	CXPN-2819-PA	CXPN-2819-LV	N/A	CXPN-2819-FP
ICXFR-316119	CXPN-2819	CXPN-2819-PA	CXPN-2819-LV	N/A	CXPN-2819-FP
ICXFR-317019	CXPN-2819	CXPN-2819-PA	CXPN-2819-LV	N/A	CXPN-2819-FP
ICXFR-367019	CXPN-3319	CXPN-3319-PA	CXPN-3319-LV	N/A	CXPN-3319-FP
ICXFR-317819	CXPN-2819	CXPN-2819-PA	CXPN-2819-LV	N/A	CXPN-2819-FP

10 SERIES

19" Wide Frames

Bottom Options

Frame	Bottom Panels [33]	Pontoon Bases [33]
	Solid	Plain

Vertical		
ICXFR-262619	CXBP-2619	CXPB-2619
ICXFR-314919	CXBP-3119	CXPB-3119
ICXFR-316119	CXBP-3119	CXPB-3119
ICXFR-317019	CXBP-3119	CXPB-3119
ICXFR-367019	CXBP-3619	CXPB-3619
ICXFR-317819	CXBP-3119	CXPB-3119

19" Wide Frames

Flush Door Options

Frame	Flush Doors [30]					
	Flush Door					
	Front			Rear		
	(1) Block Indicate: H - Handle with Lock	(2) Block Indicate: S - Solid V - Vented	(3) Block Indicate: L - Left Hinge R - Right Hinge	(1) Block Indicate: H - Handle with Lock	(2) Block Indicate: S - Solid V - Vented	(3) Block Indicate: L - Left Hinge R - Right Hinge
Vertical						
ICXFR-262619	ICDF-(1)(2)(3)-2619			ICDF-(1)(2)(3)-2619		
ICXFR-314919	ICDF-(1)(2)(3)-4919			ICDF-(1)(2)(3)-4919		
ICXFR-316119	ICDF-(1)(2)(3)-6119			ICDF-(1)(2)(3)-6119		
ICXFR-317019	ICDF-(1)(2)(3)-7019			ICDF-(1)(2)(3)-7019		
ICXFR-367019	ICDF-(1)(2)(3)-7019			ICDF-(1)(2)(3)-7019		
ICXFR-317819	ICDF-(1)(2)(3)-7819			ICDF-(1)(2)(3)-7819		

10 SERIES

19" Wide Frames

Surface Door Options

Frame	Surface Doors [31]	
	Surface Door	
	Front	Rear
	(1) Block Indicate: S - Solid V - Vented	(2) Block Indicate: L - Left Hinge R - Right Hinge
Vertical		
ICXFR-262619	ICDS-X(1)(2)-2619	ICDS-X(1)(2)-2619
ICXFR-314919	ICDS-X(1)(2)-4919	ICDS-X(1)(2)-4919
ICXFR-316119	ICDS-X(1)(2)-6119	ICDS-X(1)(2)-6119
ICXFR-317019	ICDS-X(1)(2)-7019	ICDS-X(1)(2)-7019
ICXFR-367019	ICDS-X(1)(2)-7019	ICDS-X(1)(2)-7019
ICXFR-317819	ICDS-X(1)(2)-7819	ICDS-X(1)(2)-7819

19" Wide Frames

Equipment Support Options

Frame	Chassis Guides [34]		Fixed Equipment Shelves [34]		Monitor Shelves [35]		Pull Out Shelves [34]	Retractable Keyboard Trays [35]	
			Solid	Perforated	Solid	Perforated	Solid	Tray	Access Panel

Vertical

ICXFR-262619	CXCG-26	CXES-2619	CXES-2619-PA	CXES-1619	CXES-1619-PA	CXCSQ-2619	CRKT-0319-S	CKTAP-0319
ICXFR-314919	CXCG-31	CXES-3119	CXES-3119-PA	CXES-1619	CXES-1619-PA	CXCSQ-3119	CRKT-0319-S	CKTAP-0319
ICXFR-316119	CXCG-31	CXES-3119	CXES-3119-PA	CXES-1619	CXES-1619-PA	CXCSQ-3119	CRKT-0319-S	CKTAP-0319
ICXFR-317019	CXCG-31	CXES-3119	CXES-3119-PA	CXES-1619	CXES-1619-PA	CXCSQ-3119	CRKT-0319-S	CKTAP-0319
ICXFR-367019	CXCG-36	CXES-3619	CXES-3619-PA	CXES-1619	CXES-1619-PA	CXCSQ-3619	N/A	N/A
ICXFR-317819	CXCG-31	CXES-3119	CXES-3119-PA	CXES-1619	CXES-1619-PA	CXCSQ-3119	CRKT-0319-S	CKTAP-0319

10 SERIES

19" Wide Frames

Power Options

Frame	Power Strips [42]						Power Panels [43]	
	15 Amp Direct Wire		15 Amp Power Cord		20 Amp Power Cord		15 Amp Power Cord	20 Amp Power Cord
	18" (6 outlets)	48" (10 outlets)	18" (6 outlets)	48" (10 outlets)	18" (6 outlets)	48" (10 outlets)	(6 outlets)	(6 outlets)

Vertical

ICXFR-262619	WM-180615-DW	N/A	WM-180615-PC	N/A	WM-180620-PC	N/A	PDU-615R-PC	PDU-620R-PC
ICXFR-314919	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICXFR-316119	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICXFR-317019	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICXFR-367019	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC
ICXFR-317819	WM-180615-DW	WM-481015-DW	WM-180615-PC	WM-481015-PC	WM-180620-PC	WM-481020-PC	PDU-615R-PC	PDU-620R-PC

Mounting Angles & Mounting Straps

Mounting Angles

All 10 Series frames include 2 pair (4 total) thru-hole EIA compliant mounting angles. These thru-hole angles are constructed of 14-gauge steel. Optional tapped mounting angles, constructed of 12-gauge steel, are available. The tapped mounting angles have .281" diameter thru holes on one leg of the mounting angle, and .159" diameter tapped holes (10-32 NF2) on the other leg. All mounting angles and straps are processed to specification ASTM-B633 which calls for electrodeposited zinc plating with a clear chromate conversion coating.

Mounting Angle Part Numbers & Dimensions

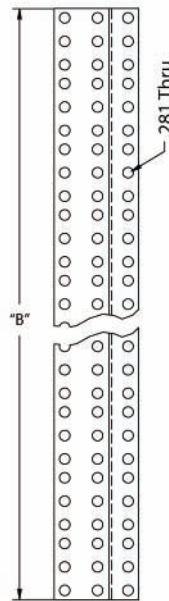
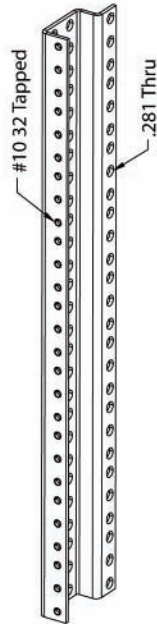
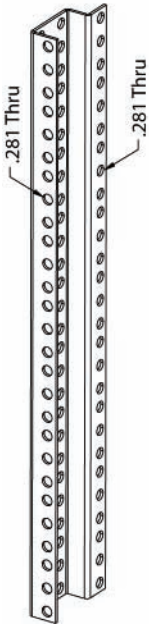
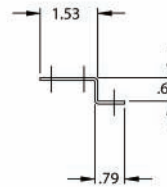
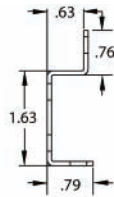
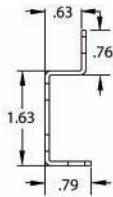
Thru-Hole	Tapped 1	B	
XMA-24	XMA-24-T	24.500	14U
XMA-26	XMA-26-T	26.250	15U
XMA-49	XMA-49-T	49.000	28U
XMA-61	XMA-61-T	61.250	35U
XMA-70	XMA-70-T	70.000	40U
XMA-78	XMA-78-T	78.750	

Mounting Strap Part Numbers & Dimensions

Thru-Hole	B	
XMS-24	24.500	14U
XMS-26	26.250	15U
XMS-49	49.000	28U
XMS-61	61.250	35U
XMS-70	70.000	40U
XMS-78	78.750	45U

Mounting Straps

For intermediate depth mounting needs, 10 Series mounting straps constructed of 14-gauge steel provide users with optimal flexibility and utility.



Thru-Hole

Tapped 1 Face

Straps

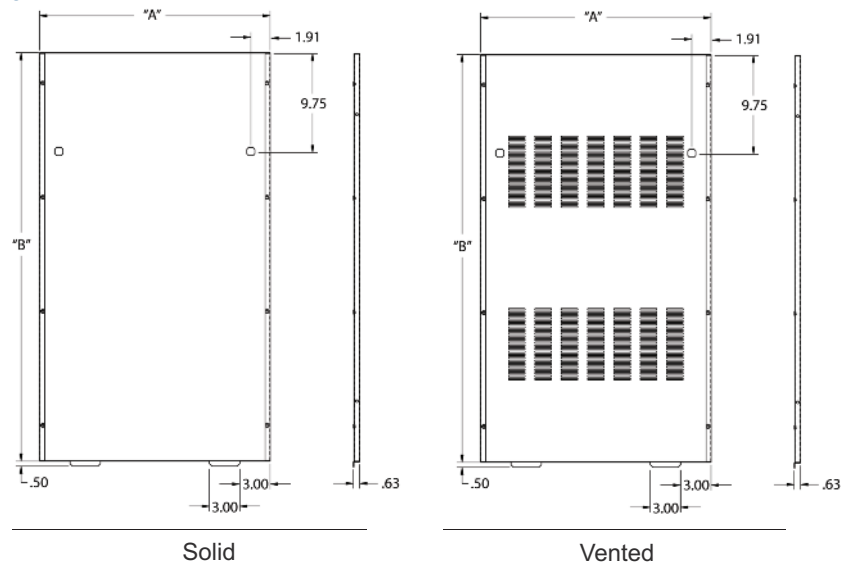
Side Panels

Side Panels

Outside removable side panels makes secure access easy! Two formed tabs lock the side panel into the bottom of the frame. In addition, two external latch holes near the top accommodate one of four fastener choices, which are ordered separately.

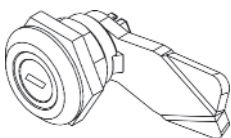
Vertical Side Panel Part Numbers & Dimensions

Solid Side Panel	Vented Side Panel	B	A
ICXSP-2626-S	ICXSP-2626-V	26.281	22.750
ICXSP-3149-S	ICXSP-3149-V	49.031	28.000
ICXSP-3161-S	ICXSP-3161-V	61.281	28.000
ICXSP-3170-S	ICXSP-3170-V	70.031	28.000
ICXSP-3178-S	ICXSP-3178-V	78.781	28.000
ICXSP-3670-S	ICXSP-3670-V	70.031	33.250

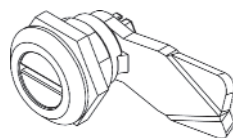


Fastener Options

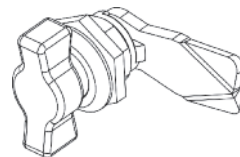
Identify the fastener function that best meets your requirement. Then, order two fastener per side panel as a separate item on your order. The fastener will be fully assembled to the side panel by Emcor.



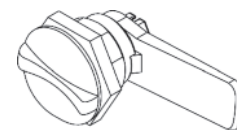
Part Number
LATCH/KEYED



Part Number
LATCH/SLOTTED



Part Number
LATCH/TWIST



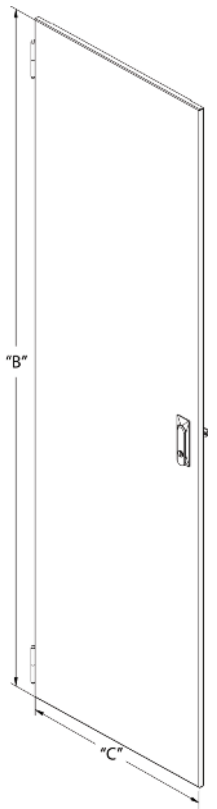
Part Number
LATCH/WING

Flush Doors - Locking Handle Style

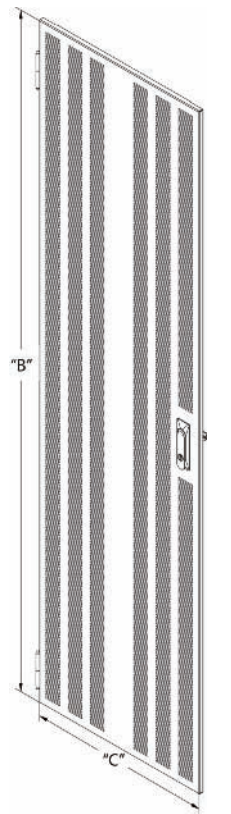
Flush Mount Doors

Flush mount doors fit into the vertical panel opening of the frame. The doors utilize the mounting angles for an attachment point so the frame is not drilled. Lift-off hinges, in a stylish black finish, allow for quick removal of the door. The contemporary low-profile single point Lockable Handle provides the security your system may need.

10 SERIES



Solid



Vented

Solid Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B	
ICDF-HSL-2119	ICDF-HSR-2119	18.835	20.937	12U
ICDF-HSL-2619	ICDF-HSR-2619	18.835	26.250	15U
ICDF-HSL-2819	ICDF-HSR-2819	18.835	27.937	16U
ICDF-HSL-4919	ICDF-HSR-4919	18.835	49.000	28U
ICDF-HSL-5219	ICDF-HSR-5219	18.835	52.500	30U
ICDF-HSL-6119	ICDF-HSR-6119	18.835	61.250	35U
ICDF-HSL-7019	ICDF-HSR-7019	18.835	70.000	40U
ICDF-HSL-7819	ICDF-HSR-7819	18.835	78.750	45U

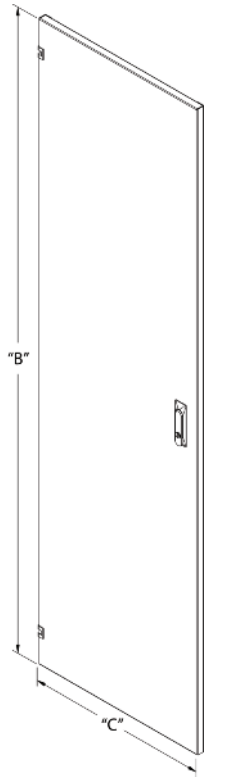
Vented Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B	
ICDF-HVL-2119	ICDF-HVR-2119	18.835	20.937	12U
ICDF-HVL-2619	ICDF-HVR-2619	18.835	26.250	15U
ICDF-HVL-2819	ICDF-HVR-2819	18.835	27.937	16U
ICDF-HVL-4919	ICDF-HVR-4919	18.835	49.000	28U
ICDF-HVL-5219	ICDF-HVR-5219	18.835	52.500	30U
ICDF-HVL-6119	ICDF-HVR-6119	18.835	61.250	35U
ICDF-HVL-7019	ICDF-HVR-7019	18.835	70.000	40U
ICDF-HVL-7819	ICDF-HVR-7819	18.835	78.750	45U

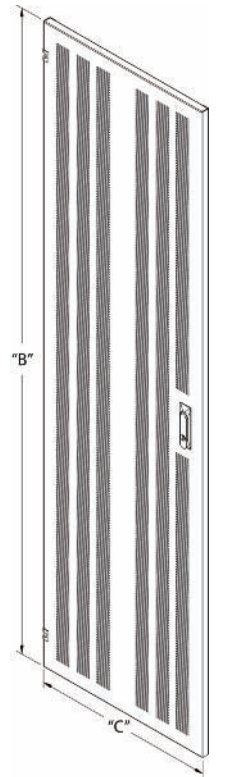
Surface Doors

Surface Mount Doors

Surface mount doors cover the vertical panel opening of the frame. The doors provide a contemporary appearance, featuring a black low-profile lockable single point latch handle and stylized black hinges that allow for 120° of rotation. Surface doors provide the space for mounting equipment behind the door panel. Since the frame must be drilled to accept surface doors, door mounting location must always be supplied at the time of order placement. All surface doors are keyed alike.



Solid



Vented

Solid Style Part Numbers & Dimensions

Left Hinged	Right Hinged	C	B
ICDS-XSL-2619	ICDS-XSR-2619	21.437	29.125
ICDS-XSL-4919	ICDS-XSR-4919	21.437	51.875
ICDS-XSL-6119	ICDS-XSR-6119	21.437	64.125
ICDS-XSL-7019	ICDS-XSR-7019	21.437	72.875
ICDS-XSL-7819	ICDS-XSR-7819	21.437	81.625

Vented Style Part Numbers & Dimensions

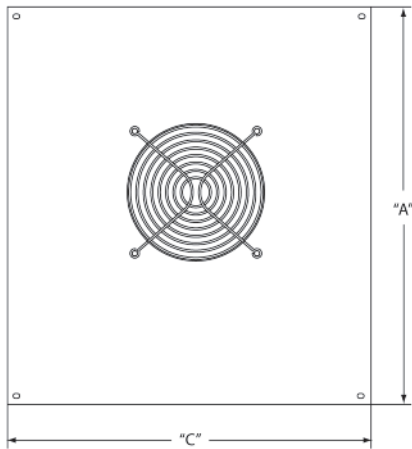
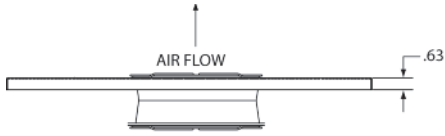
Left Hinged	Right Hinged	C	B
ICDS-XVL-2619	ICDS-XVR-2619	21.437	29.125
ICDS-XVL-4919	ICDS-XVR-4919	21.437	51.875
ICDS-XVL-6119	ICDS-XVR-6119	21.437	64.125
ICDS-XVL-7019	ICDS-XVR-7019	21.437	72.875
ICDS-XVL-7819	ICDS-XVR-7819	21.437	81.625

10 SERIES

Top Options

Single Fan Panel Assembly

Single fan panel assemblies are supplied with 2 finger guards and a 72" 18/3 SJ gray power cord material with a NEMA 5-15P 90° right angle molded plug. The fan is UL yellow card recognized. File # E31293 and CSA certified File # LR52898. The fan has a Feathered Edge™ blade for lower noise control.

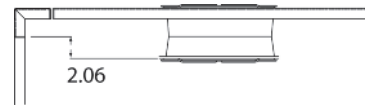


Operating Information

- 550 CFM 115 VAC, 60 HZ at free delivery
- Operating temperature range: -30°C to +60°C
- 10" Diameter Fan Size
- DB-55

Single Fan Panel Assembly Part Numbers & Dimensions

Part Numbers	A	C
CXPN-2219-FP	22.719	19.000
CXPN-2819-FP	27.969	19.000
CXPN-3319-FP	33.282	19.000



Note

When mounted as a top panel, the fan housing assembly extends into the frame opening by 2.06".

10 SERIES

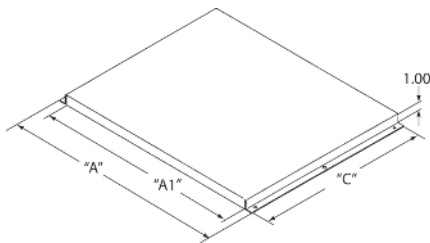
Bottom & Base Options

Bottom Panels

Bottom panels are designed to mount to the bottom of the frame.

Bottom Panel Part Numbers & Dimensions

Solid	Perforated	C	A	A1
CXBP-2619	CXBP-2619-PA	17.686	22.812	21.436
CXBP-3119	CXBP-3119-PA	17.686	28.062	26.686
CXBP-3619	CXBP-3619-PA	17.686	33.375	31.999



Pontoon Base

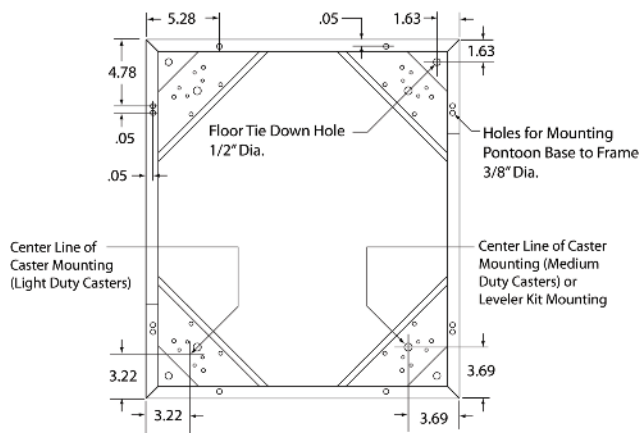
A pontoon base is available for applications where raising the enclosure above the floor is required, protecting equipment from possible water damage.

Vertical and Slope Front Frame Part Numbers & Dimensions

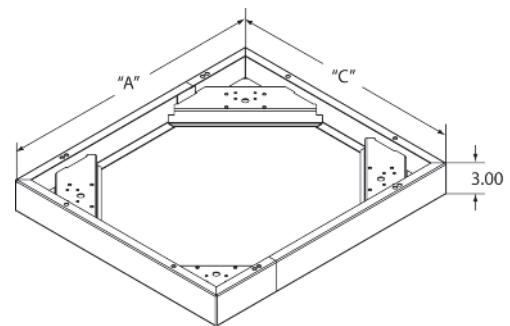
Part Numbers	C	A
CXPB-2619	22.562	25.812
CXPB-3119	22.562	31.062
CXPB-3619	22.562	36.375

Note

All frames overhang the pontoon bases 0.5" at front. The base is mounted at the factory to accommodate caster or leveler mounting unless floor tie-down has been specified.



Pontoon Base Detail



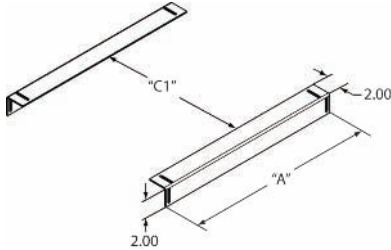
Pontoon Base

10 SERIES

Equipment Support Options

Chassis Guides

Chassis guides are used to support heavy equipment by means of angular steel support members leaving the bottom of the mounted equipment exposed for cooling or servicing. They are sold as pairs and have a load capacity of 200 pounds evenly distributed.



Chassis Guide Dimensions

Part Numbers	A	C1
CXCG-20	16.688	14.016
CXCG-26	21.688	14.016
CXCG-31	26.938	14.016
CXCG-36	32.250	14.016

Fixed Equipment Shelves

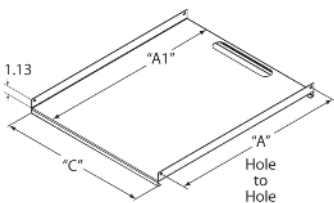
These 14-gauge steel fixed equipment shelves are designed to fit anywhere in the vertical panel openings of all 10 Series frames. A 1.5" x 8.5" slot is provided at the rear for passage of wires, cables, etc.

Solid style shelves provide an evenly distributed load capacity of up to 350 lbs.

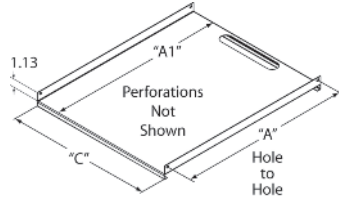
Perforated style shelves offer an evenly distributed load capacity of 200 lbs. and provide air flow through the perforated area to assist in equipment cooling.

Fixed Equipment Shelf Dimensions

Solid	Perforated	A	C
CXES-2019	CXES-2019-PA	15.938	17.99
CXES-2619	CXES-2619-PA	20.93	17.99
CXES-3119	CXES-3119-PA	26.18	17.99
CXES-3619	CXES-3619-PA	31.493	17.99



Solid



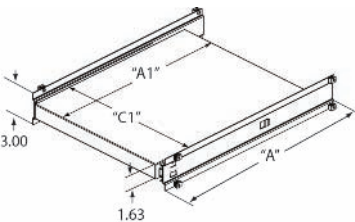
Perforated

Pull Out Shelf

Pull-Out Shelves make it possible to slide equipment in and out of the enclosure for fast, easy accessibility. Slide assemblies are mounted on heavy-duty ball bearing slides for ease of movement. Load capacity - 90-lbs. evenly distributed. Slide Mounting Brackets are painted black.

Pull Out Shelf Dimensions

Part Numbers	A	A1	C1
CXCSQ-2019	18.882	20.250	16.320
CXCSQ-2619	23.874	20.250	16.320
CXCSQ-3119	29.124	20.250	16.320
CXCSQ-3619	34.437	20.250	16.500



Solid

10 SERIES

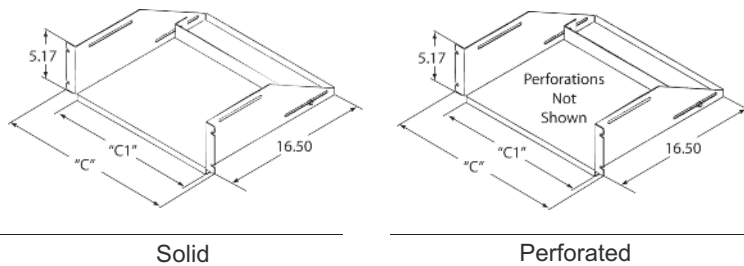
Equipment Support Options

Monitor Shelf

Monitor shelves provide an easy method of mounting non-rack mount style monitors and equipment into the sloped area of slope front frames or into any vertical frame mounting location. These shelves are attached to the front flange of the enclosures mounting angles and require no rear attachment point. Monitor shelves are available in both a solid or perforated styles and they carry a 50 pound load rating. An adjustable bracket is included at the rear of the shelf to position the monitor as required. Additional front-to-rear slots are provided to further secure the monitor as needed by strapping the unit to the shelf...strap not included.

Monitor Shelf Part Numbers & Dimensions

Solid	Perforated	C	C1
CXES-1619	CXES-1619-PA	18.940	16.350

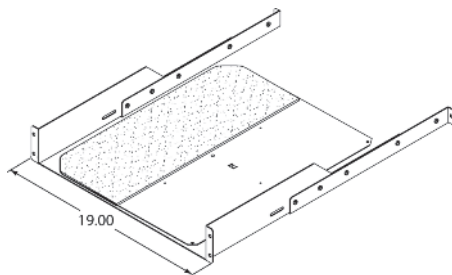


10 SERIES

Retractable Keyboard Tray Assembly

Emcor's retractable keyboard tray assembly provides users the flexibility to incorporate a full size PC keyboard within a frame's 19" width enclosure opening. The keyboard tray is housed within the enclosure in a "front-to-rear" orientation. To access the keyboard, simply pull the tray outward until it locks into the open position. The keyboard tray can then be rotated 90° and affixed into position for operator use. A low profile mouse pad is incorporated onto the front of the tray across its entire width. In order to stow the keyboard back into the enclosure, rotate the tray 90°, unlatch the locking slide, and retract the assembly back into the frame. The keyboard tray assembly mounts to the mounting angles and occupies only 3.5" (2U) of vertical rack space.

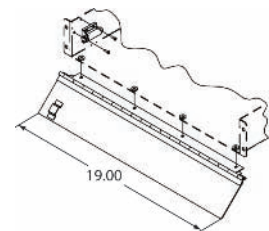
Part Number
CRKT-0319-S



Optional Hinged Access Panel

An optional 3.5" (2U) hinged access panel is available for those users that wish to close off the 2U opening when the keyboard is stowed.

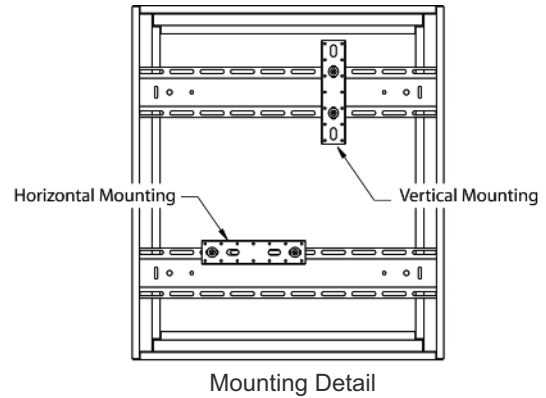
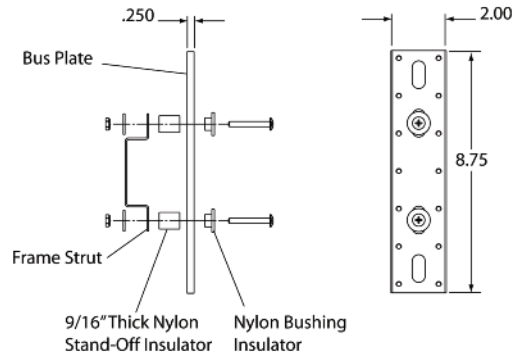
Part Number
CKTAP-0319



Ground Bus Plate

Ground bus plates provide equipment grounding capabilities that are unique when compared to the full length bus bars. The copper ground bus plate provides fourteen (14) #10-32 tapped grounding points and mounts directly to the frame strut in a vertical or horizontal position. The designed-in mounting flexibility allows for attachment of the ground bus plate in locations that are much less likely to interfere with full depth internal frame equipment and accessories such as mounting brackets, equipment shelves, chassis guides and others.

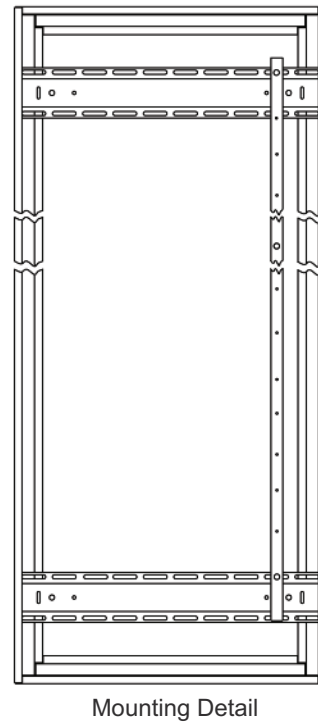
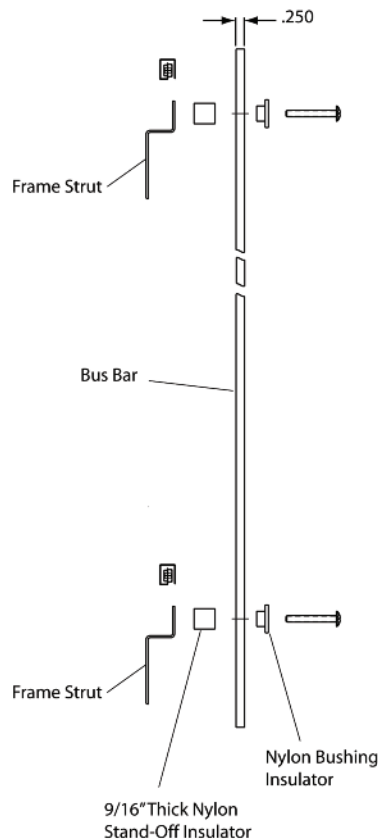
Part Number
XGBP-0208



Bus Bars

Emcor offers insulated copper bus bars which attach to the top flange of the upper and lower frame struts. The bus bar is supplied with #10-32 tapped holes on 3.5" centers. **Only full height bus bars will mount to frames. Short height bus bars will not align with frame mounting struts.**

Part Numbers	B	
XBB-26	26.250	15U
XBB-49	49.000	28U
XBB-61	61.250	35U
XBB-70	70.000	40U
XBB-78	78.750	45U



Note

When equipment support items such as shelving or drawers are being mounted in the same frame as a bus bar, the items must be ordered short depth. Please refer to the technical section for more information on short depth equipment.

Universal Accessories

Accessories that can be used with all Emcor product lines.

Table Of Contents

- Universal Accessories 37-52**
 - Paint Options
 - Closure Panels
 - Wire Management
 - Power Options
 - Fan and Blower Options
 - Casters
 - Levelers
 - Hardware
- ESQ Product Line 5-20**
 - Part Numbers & Dimensions
 - Ordering Guide
- 10 Series Product Line 21-36**
 - Part Numbers & Dimensions
 - Ordering Guide



ACCESSORIES

Paint Colors

Emcor Paint Colors

It is necessary to specify paint color for all paintable materials. Emcor offers nine proprietary paint colors to choose from. If you require a custom paint color, we will match your paint chip or any Federal Standard 595 color with the assistance of our digital color computer to guarantee you a consistent color match every time. Contact the factory for pricing and details.



Note

The color samples shown above are for reference only, and may not match the actual paint colors due to variations in the printing process. Actual paint samples are available upon request.

Touch Up or Refinishing Paint

Need to paint existing products to match your Emcor consoles and enclosures, or just need to touch up. Emcor supplies its proprietary paint in the following forms.

Air Dry Formulation: 12oz. Aerosol Spray - Quart - Gallon

Baking Formulation: Quart - Gallon

Touch-Up or Refinishing Paint Part Numbers

Air Dry Formulation			Baking Formulation		
12oz. Aerosol Spray Can	Quart	Gallon	Quart	Gallon	
LAS-AW	LA-AW-Q	LA-AW-G	EN-AW-Q	EN-AW-G	Antique White
LAS-NU	LA-NU-Q	LA-NU-G	EN-NU-Q	EN-NU-G	Neutral
LAS-GS	LA-GS-Q	LA-GS-G	EN-GS-Q	EN-GS-G	Graystone
LAS-CRB	LA-CRB-Q	LA-CRB-G	EN-CRB-Q	EN-CRB-G	Caribbean Blue
LAS-FN	LA-FN-Q	LA-FN-G	EN-FN-Q	EN-FN-G	Fawn
LAS-ST	LA-ST-Q	LA-ST-G	EN-ST-Q	EN-ST-G	Steel
LAS-PT	LA-PT-Q	LA-PT-G	EN-PT-Q	EN-PT-G	Putty
LAS-BK	LA-BK-Q	LA-BK-G	EN-BK-Q	EN-BK-G	Black
LAS-HTG	LA-HTG-Q	LA-HTG-G	EN-HTG-Q	EN-HTG-G	Hi-Tech Gray



Closure Panels

Closures Panels

Closure panels are designed to attach to the top, front, rear, and slope opening areas of your frame.

Closure Panel Dimensions

19" Wide					
Solid	Louvered	Perforated	Aluminum	B	C
CXPN-0119	N/A	N/A	CXPN-0119-A	1.719	1U 19.000
CXPN-0319	N/A	N/A	CXPN-0319-A	3.469	2U 19.000
CXPN-0519	CXPN-0519-LV	N/A	CXPN-0519-A	5.219	3U 19.000
CXPN-0719	CXPN-0719-LV	N/A	CXPN-0719-A	6.969	4U 19.000
CXPN-0819	CXPN-0819-LV	N/A	CXPN-0819-A	8.719	5U 19.000
CXPN-1019	CXPN-1019-LV	N/A	CXPN-1019-A	10.469	6U 19.000
CXPN-1219	CXPN-1219-LV	N/A	CXPN-1219-A	12.219	7U 19.000
CXPN-1419	CXPN-1419-LV	CXPN-1419-PA	CXPN-1419-A	13.969	8U 19.000
CXPN-1519	CXPN-1519-LV	N/A	CXPN-1519-A	15.719	9U 19.000
CXPN-1719	CXPN-1719-LV	N/A	CXPN-1719-A	17.469	10U 19.000
CXPN-1919	CXPN-1919-LV	N/A	CXPN-1919-A	19.219	11U 19.000
CXPN-2119	CXPN-2119-LV	CXPN-2119-PA	CXPN-2119-A	20.969	12U 19.000
CXPN-2219	CXPN-2219-LV	CXPN-2219-PA	CXPN-2219-A	22.719	13U 19.000
CXPN-2419	CXPN-2419-LV	N/A	N/A	24.469	14U 19.000
CXPN-2619	CXPN-2619-LV	CXPN-2619-PA	N/A	26.219	15U 19.000
CXPN-2819	CXPN-2819-LV	CXPN-2819-PA	N/A	27.969	16U 19.000
CXPN-3319	CXPN-3319-LV	CXPN-3319-PA	N/A	33.250	19U 19.000

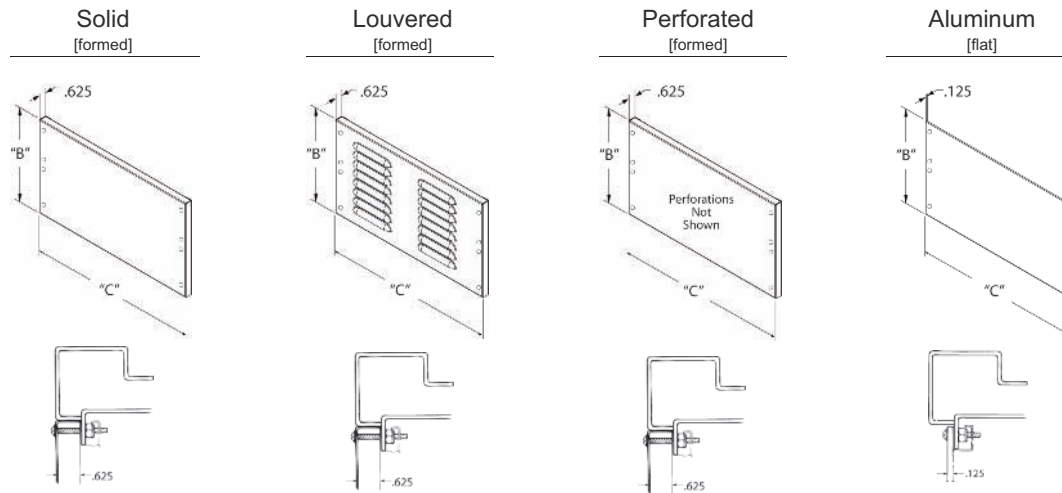
Material

Solid
16-Gauge cold rolled steel

Louvered
16-Gauge cold rolled steel

Perforated
16-Gauge cold rolled steel

Aluminum
6061-T6 aluminum



Wire Management Panels

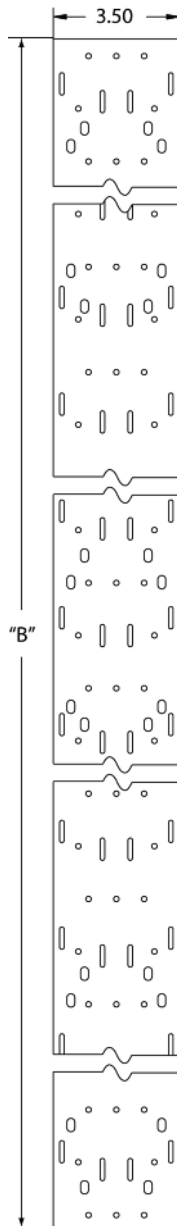
Wire Management Panels

Wire management panels may be located front-to-rear at almost any location within an Emcor enclosure. These panels provide secure mounting for cables, power strips, and a wide variety of wire-management accessory components.

Note

When equipment support items such as shelving or drawers are being mounted in the same frame as the wire management panel, the items must be ordered short-depth. Please refer to the technical section for more information on short-depth equipment.

Part Numbers	Installs in Frames with Vertical Opening	
WMP-21	21.000	12U
WMP-26	26.250	15U
WMP-28	28.000	16U
WMP-43	43.750	25U
WMP-49	49.000	28U
WMP-52	52.500	30U
WMP-61	61.250	35U
WMP-70	70.000	40U
WMP-78	78.750	45U

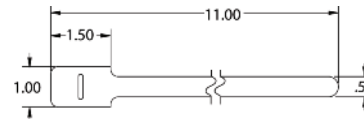


Wire Management Accessories

Velcro Straps

Emcor's black velcro grip tie straps are available in bags of ten. Mounting clips and screws included for attaching to the wire management panel.

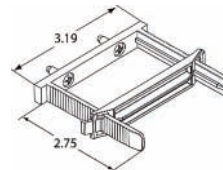
Part Number
DVS-11



Wire Clamps

Emcor's gray plastic wire clamps attach to the wire management panel, and are designed to securely clamp wiring or cabling in place.

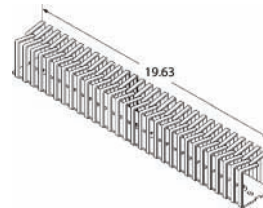
Part Number
DWC-0225



Finger Duct Assembly

Emcor's gray polypropylene finger duct assembly allows for easy and protected routing of cabling.

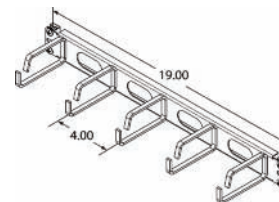
Part Number
DFD-22



1U Cable Management Panel

Emcor's rack mount cable management panel provides a simple and convenient method of organizing and routing cabling.

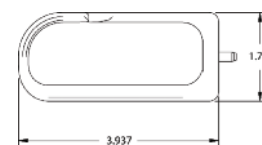
Part Number
CMP-1U-19



"D" Ring

Emcor's black cable management "D" Rings provide for easy vertical routing of cabling.

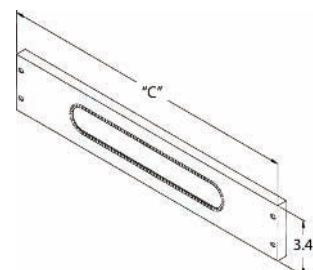
Part Number
DCR-2375



Cable Access Panel

This panel is supplied with an 11" x 1.5" cable access cutout with protective grommet material.

Part Numbers	C
CXPN-0319-CAP	19.000



Note

Additional grommet material is available. Sold by the foot.

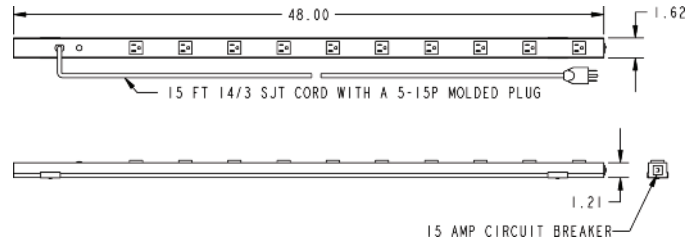
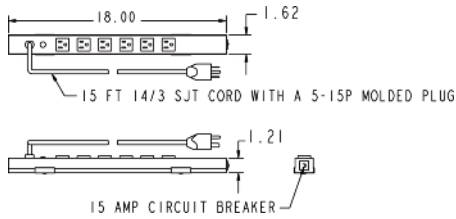
Part Number
GMT-0012

Power Strips

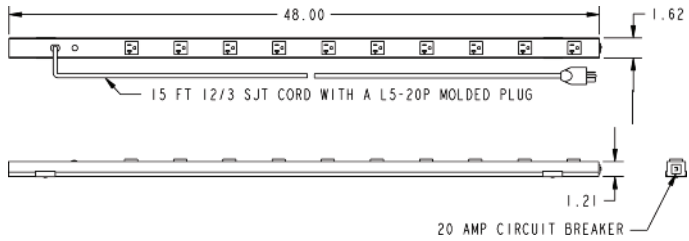
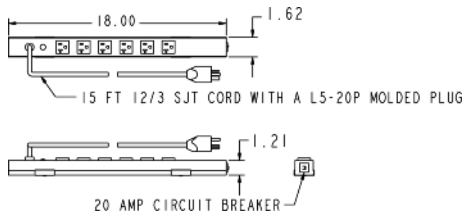
Power Strips

Corded power strips are available in either 18" six outlet or 48" ten outlet lengths with 15 or 20 Amp circuit breakers. Direct wire 15 Amp power strips are also available in both lengths. All power strips are UL listed.

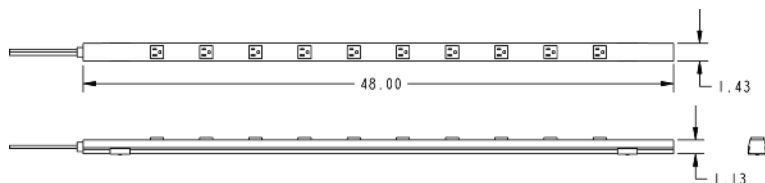
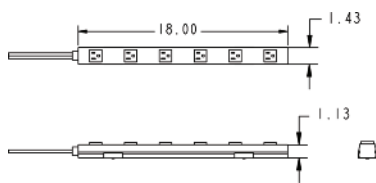
Part Numbers	Number of Outlets	Wire Gauge	Circuit Breaker	Electrical Input	Plug Type
WM-180615-PC	6	14/3 SJT	15 AMP	15' Power Cord	NEMA 5-15P Molded
WM-481015-PC	10	14/3 SJT	15 AMP	15' Power Cord	NEMA 5-15P Molded



Part Numbers	Number of Outlets	Wire Gauge	Circuit Breaker	Electrical Input	Plug Type
WM-180620-PC	6	12/3 SJT	20 AMP	15' Power Cord	NEMA 5-20P Molded
WM-481020-PC	10	12/3 SJT	20 AMP	15' Power Cord	NEMA 5-20P Molded

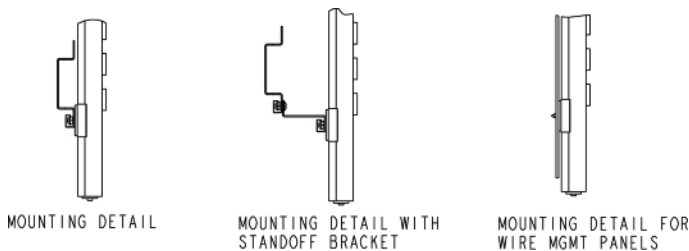


Part Numbers	Number of Outlets	Wire Gauge	Circuit Breaker	Electrical Input	Plug Type
WM-180615-DW	6	14/3 SJT	15 AMP	12" Wire Leads	---
WM-481015-DW	10	14/3 SJT	15 AMP	12" Wire Leads	---



Stand Off Brackets

A pair of stand-off brackets are supplied with each power strip.



Note

When equipment support items such as shelving or drawers are being mounted in the same frame as a power strip, the items must be ordered short-depth. Please refer to the technical section for more information on short-depth equipment.

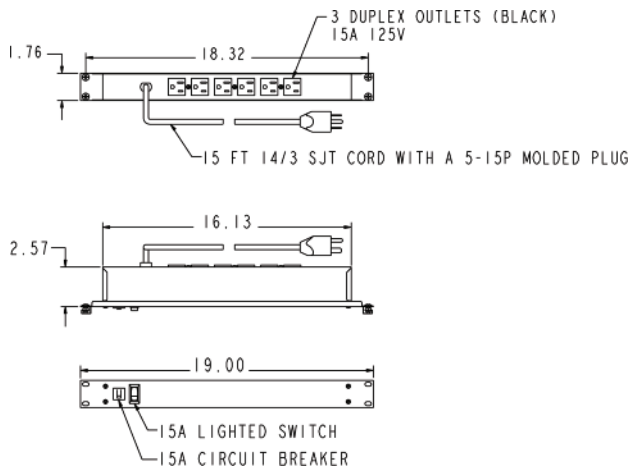
ACCESSORIES

Power Panels

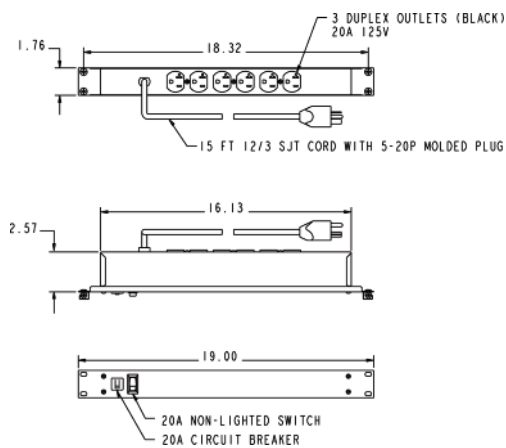
Power Panels

Rack mount power panels can be installed in any 19" wide frame and occupies only 1.75" (1U) of vertical panel space. The power panel is supplied in a black finish and is equipped with six outlets, each facing the interior of the cabinet for component power distribution. All power panels are UL listed.

Part Number	Number of Outlets	Wire Gauge	Circuit Breaker	Electrical Input	Plug Type
PDU-615R-PC	6	14/3 SJT	15 AMP	15' Power Cord	NEMA 5-15P Molded



Part Number	Number of Outlets	Wire Gauge	Circuit Breaker	Electrical Input	Plug Type
PDU-620R-PC	6	12/3 SJT	20 AMP	15' Power Cord	NEMA 5-20P Molded

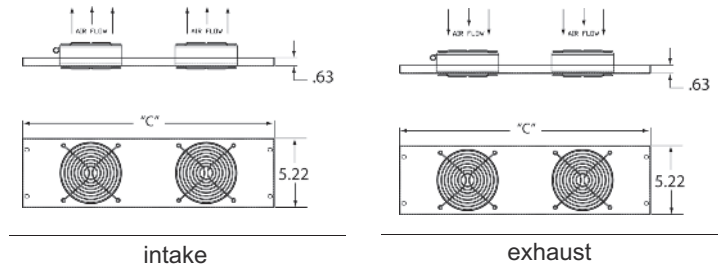


Fans & Fan Trays

Dual Fan Panel Assembly

- 102 CFM per fan (204 total), 13 watts, 115 VAC, 50/60 HZ, 41 dBA
- 19" and 24" panel widths
- Fan size – 4.625" square x 1.5" deep
- Operating temperature range: -20°C to +70°C
- Fans are UL recommended File # E3670 and CSA certified File # 29590
- Supplied with an installed 72" 18/3 SJT black power cord with a NEMA 5-15P plug

Part Numbers	C	
CXPN-0519-FP-2E	19.000	Exhaust
CXPN-0519-FP-2I	19.000	Intake



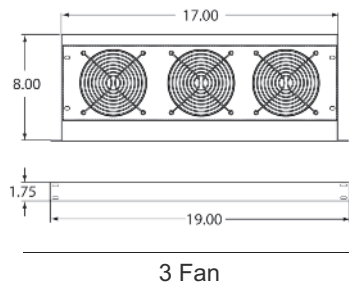
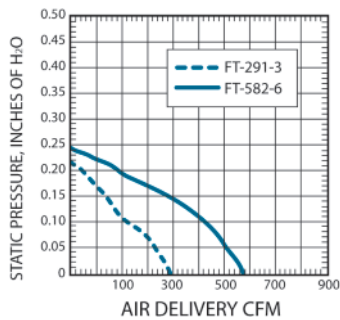
Fan Trays

Fan trays are primarily used for spot cooling within an enclosure.

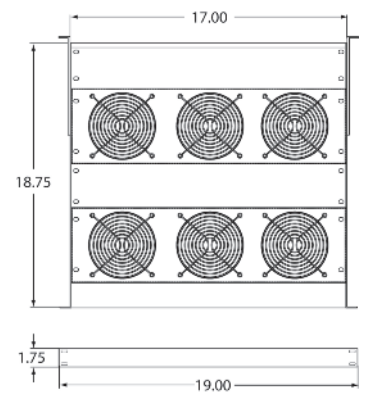
- 1.75" panel height
- 19" panel width
- Field adjustable filler strips and rear support brackets
- 115 Volt AC power
- DC voltage available upon request
- 72" cord with a NEMA 5-15P 90° right angle molded plug
- UL recognized, CSA certified fans
- Exhaust guards on the top and bottom
- Filler strips to prevent the recirculation of air
- High quality gray paint finish

Part Numbers	# of Fans	CFM	Speed	Amps		Volts	Watts	dBA
				RUN	L.R.*			
FT-291-3	3	291	3225	0.48	0.72	115	39.9	58
FT-582-6	6	582	3225	0.96	1.44	115	79.8	60

*Locked Rotor Air delivery based on operating at 115 volts, 60 HZ, single phase power.



3 Fan



6 Fan

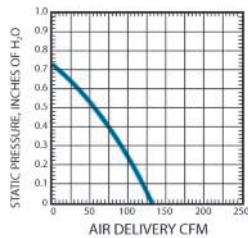
Packaged Blowers

Packaged Blowers

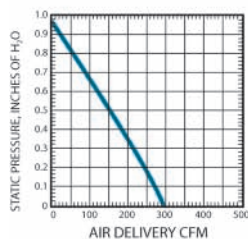
Packaged blowers have been designed to effectively cool critical electronic components within an enclosure by means of clean positive air pressure. Each blower is supplied with a highly efficient U/L approved motor, statically balanced wheels, brushed stainless steel grille, permanent washable filter, and an epoxy finish.

Note

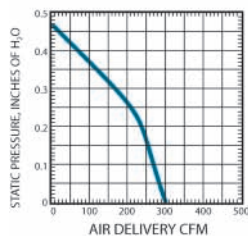
All the blowers listed are for standard 19" rack mount frames. When the 19" rack mount blower is to be installed in a 24" rack mount frame, adapter brackets must be ordered separately. The correct adapter bracket number is listed on each table.



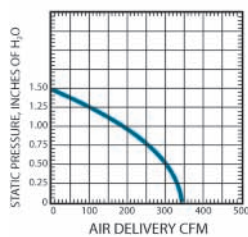
Part Number	Performance Data					NC**	Dimensional Data	
	CFM	RPM	AMPS		WATTS		A	B
			RUN	L.R.*				
BL-125EG	125	3000	0.9	1.2	70	50	9.031 5.250	
Weight 13.25 lbs.		Adapter bracket assembly part number ABA-05 Replacement Filter Part Number FI-0519						



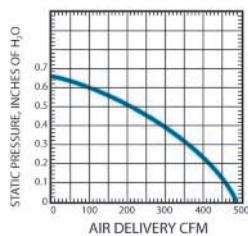
Part Number	Performance Data					NC**	Dimensional Data	
	CFM	RPM	AMPS		WATTS		A	B
			RUN	L.R.*				
BL-290EG	290	3050	1.8	2.5	125	60	9.031 5.250	
Weight 14.25 lbs.		Adapter bracket assembly part number ABA-05 Replacement Filter Part Number FI-0519						



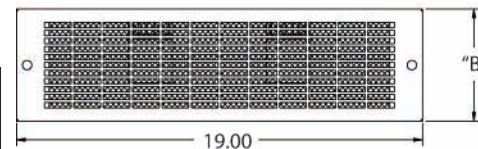
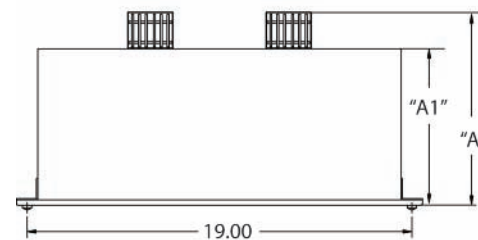
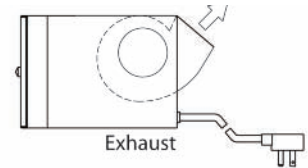
Part Number	Performance Data					NC**	Dimensional Data	
	CFM	RPM	AMPS		WATTS		A	B
			RUN	L.R.*				
BL-300EG	300	1550	1.2	1.6	95	50	10.188 7.000	
Weight 18.00 lbs		Adapter bracket assembly part number ABA-07 Replacement Filter Part Number FI-0719						



Part Number	Performance Data					NC**	Dimensional Data	
	CFM	RPM	AMPS		WATTS		A	B
			RUN	L.R.*				
BL-350EG	350	3100	1.8	4	200	65	10.219 7.000	
Weight 18.50 lbs.		Adapter bracket assembly part number ABA-07 Replacement Filter Part Number FI-0719						



Part Number	Performance Data					NC**	Dimensional Data	
	CFM	RPM	AMPS		WATTS		A	B
			RUN	L.R.*				
BL-500EG	500	1700	1.6	3.5	140	55	11.563 8.750	
Weight 24.25 lbs.		Adapter bracket assembly part number ABA-08 Replacement Filter Part Number FI-0819						

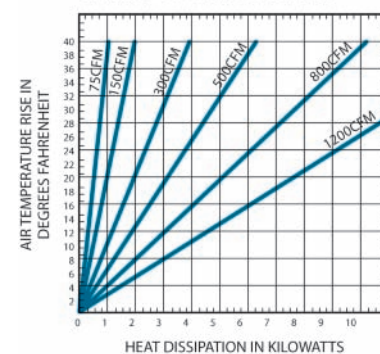


FILTER: Permanent washable type which can be serviced without removing the blower from the rack.

MOTOR: Shaded-pole, rust resistant shaft, double shielded ball bearings, permanently lubricated with a 20° F to 250° F lubricant. UL and CSA approved. Some motors are permanent split capacitor style.

CORD: 72" 18/3 SJ gray power cord material with a NEMA 5-15P 90° right angle molded plug.

PERFORMANCE LIMITS FOR CABINET COOLING BLOWERS



* Locked Rotor **Noise Criteria










Air delivery based on operating at 115 volts, 60 HZ, single phase power.

Casters

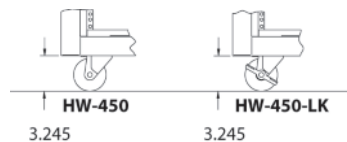
Casters

Emcor offers many different casters. Some are for use with pontoon bases, some can be used directly on the frame, and some are only used in special circumstances.

Please read the table carefully to make certain you select the correct caster for your needs.

Part Number	Image	Sold As	Load Rating			Caster Style					Description			
			Weight Load	Light Duty	Medium Duty	Heavy Duty	Swivel Style	Rigid Style	Locking	Non-Locking	Single Wheel	Dual Wheel	Type of Wheel	Size of Wheel
Part Number HW-484		Set (4)	75	x			x			x	x		Soft Rubber	2"
Part Number HW-485		Set (4)	75	x			x			x	x		Polypropylene	2"
Part Number HW-486		Set (4)	180		x		x			x		x	Hard Rubber	2"
Part Number HW-401		Each (1)	200		x		x		x		x		Soft Rubber	4"
Part Number HW-408		Each (1)	200		x		x			x	x		Soft Rubber	4"
Part Number HW-451		Each (1)	375			x	x			x	x		Hard Rubber	4"
Part Number HW-451-LK		Each (1)	375			x	x		x		x		Hard Rubber	4"
Part Number HW-450		Each (1)	350			x	x			x	x		Polypropylene	3"
Part Number HW-450-LK		Each (1)	350			x	x		x		x		Polypropylene	3"

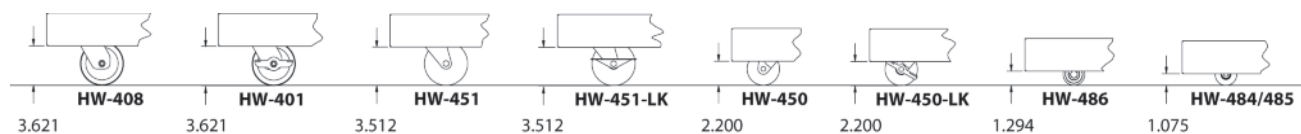
Height added by casters when mounted directly to the frame.



Casters - Where Used

	ESC	Where Used	10 Series	Where Used
Part Number HW-484	•	Pontoon Base Only		
Part Number HW-485	•	Pontoon Base Only		
Part Number HW-486	•	Pontoon Base Only	•	Pontoon Base Only
Part Number HW-401	•	Pontoon Base Only	•	Pontoon Base Only
Part Number HW-408	•	Pontoon Base Only	•	Pontoon Base Only
Part Number HW-451			•	Pontoon Base Only
Part Number HW-451-LK			•	Pontoon Base Only
Part Number HW-450	•	Pontoon Base In Conjunction with UPLK-01 Leveler Kit	•	Frame Fork Lift Base In Conjunction with XLK-01 Leveler Kit (frame) In Conjunction with UPLK-01 Leveler Kit (pontoon base)
Part Number HW-450-LK	•	Pontoon Base In Conjunction with UPLK-01 Leveler Kit	•	Frame Fork Lift Base In Conjunction with XLK-01 Leveler Kit (frame) In Conjunction with UPLK-01 Leveler Kit (pontoon base)

Height added by casters when mounted to the pontoon base.



Levelers, Floor Locks, & Leveler Kits

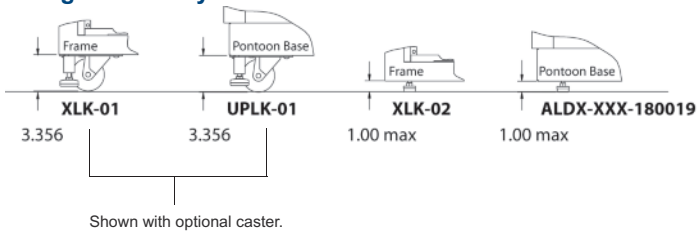
Levelers

Emcor offers two levelers. These may be used directly on the base of a frame or incorporated in one of our leveler kits. Please read the table carefully to make certain that you select the correct leveler for your needs.

Leveler Kits

Emcor has created leveler kits for use with pontoon bases and for use directly on the frame. Please read the table carefully to make certain that you select the correct leveler kit for your needs. Additionally you can choose kits that accept levelers only, or choose one that will accept both levelers and casters. All kits include the levelers; however, the casters are sold separately.

Height added by leveler kits.



Levelers

Part Number

HW-405



Sold As

Each (1)

Leveler Kits

Part Number

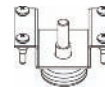
XLK-02



Set (4)

Part Number

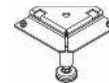
ALDX-XXX-180019



Set (4)

Part Number

XLK-01

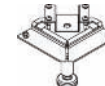


Set (4)

Shown w/o optional caster

Part Number

UPLK-01











Set (4)

Shown w/o optional caster










Levelers - Where Used

	ESC	Where Used	10 Series	Where Used
Levelers				
Part Number HW-405	•	Leveler Kits	•	Leveler Kits
Leveler Kits				
Part Number XLK-02			•	All frames w/o a pontoon base (Includes Leveler HW-405)
Part Number ALDX-XXX-180019	•	All frames with a pontoon base (Includes Leveler HW-405)	•	All frames with a pontoon base (Includes Leveler HW-405)
Part Number XLK-01			•	All frames w/o a pontoon base (Includes Leveler HW-405) Casters sold separately: HW-450 or HW-450-LK
Part Number UPLK-01	•	All frames with a pontoon base (Includes Leveler HW-405) Casters sold separately: HW-450 or HW-450-LK	•	All frames with a pontoon base (Includes Leveler HW-405) Casters sold separately: HW-450 or HW-450-LK

Hardware

	Part Number	Description	ESQ	10 Series	Where Used
	AHWX-012-083219	#10-32 x .500 Pan Head Machine Screw	●	●	Used to secure lift off side panels for shipping with AHWX-092-003219 captive clip nut and HW-188 flat washer.
	AHWX-012-103219	#10-32 x .625 Pan Head Machine Screw	●	●	
	AHWX-092-003219 - or - HW-092	#10-32 Clip Nut	●	●	16, 14, and 11 gauge material with HW-103 or HW-104 truss head machine screw when mounting 5/8" thick or 1/8" thick panels.
	AHWX-102-002025	1/4-20 Keps Nut	●	●	Clear zinc plated. Used with hex head machine screw HW-150.
	AHWX-192-002025	1/4-20 Clip Nut	●	●	Used for mounting standard 10 Series panel mounting angles to the side strut, and all pontoon bases to frames with AHWX-722-102025.
	AHWX-722-102025	1/4-20 x 5/8 Screw	●	●	Used for mounting standard 10 Series panel mounting angles to the side strut, and all pontoon bases to frames with AHWX-192-002025 captive clip nut.
	AJCX-HDX-000100	Joining Clip	●	●	Used to bolt a turret frame to a vertical frame or join frames front to rear. Sold in pairs. Includes all mounting hardware.
	XJCX-F10-000000	Joining Clip		●	Used to bolt all 10 Series vertical or slope front frames side by side. Sold in pairs. Includes all mounting hardware.

Hardware

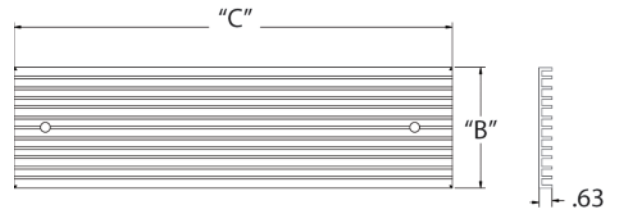
	Part Number	Description	ESQ	10 Series	Where Used
	HW-110	#10 self-tapping screw "A" threads.	●	●	Used for mounting laminated closure panels.
	HW-103	#10-32 x 1.125 Panel Screw	●	●	Used for mounting formed steel closure panels to tapped mounting angles or when using clip nut AHWX-092-003219. Comes with polyethylene washer.
	HW-104	#10-32 x .500 Panel Screw	●	●	Used when mounting 1/8" thick flat aluminum panels to tapped mounting angles or when using clip nut AHWX-092-003219. Comes with polyethylene washer.
	HW-1032	#10-32 Aluminum Panel Standoff	●	●	Used for mounting 1/8" thick aluminum panels to bring flush with front of frame with HW-154 keps nut and HW-104 panel screw.
	HW-159	#8-32 Keps Nut	●	●	
	HW-161	5/16-18 x 3/4 Hex Head Screw	●		Used for joining ESQ frames together side by side using HW-162 flat washer and HW-163 keps nut.
	HW-163	5/16-18 Keps Nut	●		Used for joining ESQ frames together side by side using HW-161 screw and HW-162 flat washer.
	HW-175	M6 Cage Nut		●	Used with HW-101M6 screw to face mounting equipment to Dell compatible (square hole) mounting angles.
	HW-101	M6 x 1.00" Screw		●	Used with HW-175 M6 cage nut to face mounting equipment to Dell compatible (square hole) mounting angles.

General Accessories

Vent Grille

Aluminum vent grilles provide an effective means to fulfill your venting requirements.

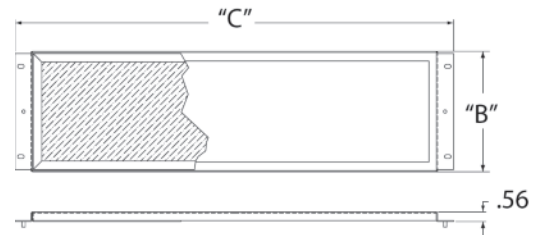
Part Numbers	B		C	% Opening
AVGX-XXX-000319	3.500	2U	19.000	45
AVGX-XXX-000519	5.250	3U	19.000	50
AVGX-XXX-000719	7.000	4U	19.000	52.5
AVGX-XXX-000819	8.750	5U	19.000	54



Filter Retainer Assembly

These assemblies mount directly behind aluminum vent grilles, providing protection from airborne particles. Filters are washable and permanent.

Part Numbers	B		C	% Opening
ARFA-000319	3.500	2U	19.000	47.2
ARFA-000519	5.250	3U	19.000	52.5
ARFA-000719	7.000	4U	19.000	55.1
ARFA-000819	8.750	5U	19.000	56.6

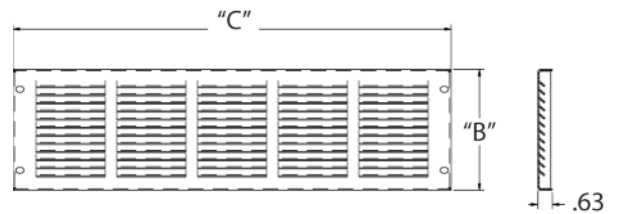


Vent Panel

Steel vent panels provide an effective means to fulfill your venting requirements.

Part Numbers

19" Wide	B		C	% Opening
CXPN-0319-VP	3.500	2U	19.000	33.8



General Technical Information

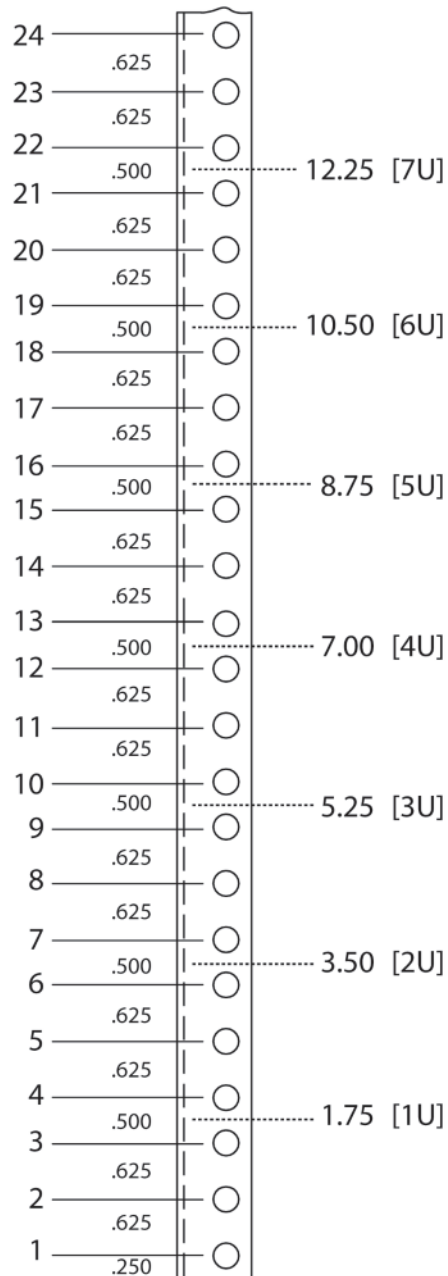
Tolerances

Nominal panel sizes are in increments of 1.75". Frame openings include a .125" tolerance factor except the slope and top openings, which have a .063" factor.

Rack Unit Conversion Table

Rack Unit	Inches
49U	85.75"
46 U	80.50"
45 U	78.75"
44 U	77.00"
43 U	75.25"
42 U	73.50"
41 U	71.75"
40 U	70.00"
39 U	68.25"
38 U	66.50"
37 U	64.75"
36 U	63.00"
35 U	61.25"
34 U	59.50"
33 U	57.75"
32 U	56.00"
31 U	54.25"
30 U	52.50"
29 U	50.75"
28 U	49.00"
27 U	47.25"
26 U	45.50"
25 U	43.75"
24 U	42.00"
23 U	40.25"
22 U	38.50"
21 U	36.75"
20 U	35.00"
19 U	33.25"
18 U	31.50"
17 U	29.75"
16 U	28.00"
15 U	26.25"
14 U	24.50"
13 U	22.75"
12 U	21.00"
11 U	19.25"
10 U	17.50"
9 U	15.75"
8 U	14.00"
7 U	12.25"
6 U	10.50"
5 U	8.75"
4 U	7.00"
3 U	5.25"
2 U	3.50"
1 U	1.75"

Standard EIA Hole Spacing Pattern



7-94 **ESQ**

Console and Enclosure Product Line

125-184 **10 Series[®]**

Console & Enclosure Product Line

329-348 **Accessories**

Accessories that fit all Product Lines



Emcor enclosures are designed and manufactured by Crenlo
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CRN.1965 10.11