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Terms and Conditions of Sale

Acceptance

All Orders are subject to acceptance at our Dallas Office by an officer of the company.

Delivery

Upon receipt of your purchase order for the item(s) described on the order acknowledgment, packing list, or change order form, it is understood that the Purchaser has assumed responsibility on behalf of the customer for the final approval and design of goods supplied by EMF Company. Estimated shipping dates are based on production time required after receipt of order. In the event additional information is required for processing or any revisions are made to the design, specifications or conditions of sale, shipping date will be automatically extended by the period of time required to clarify the mutually agreed upon additions or alterations to the original order.

Delays in Delivery

EMF will not be held responsible for any delivery delay due to fires, strikes, riots, Acts of God, delays in transportation, Terms and Conditions of Sale, delays in receipt of materials or parts, inability to obtain necessary labor, or any other causes beyond our control.

Penalties

Penalty clauses, legal or otherwise, of any type or description, in any specification or order, will not be accepted or effective without the prior expressed written approval by an officer of the EMF Company.

Cancellation

Cancelled orders or jobs are subject to restocking charges plus labor and material expenses incurred up to the date of cancellation.

EMF reserves the right to refuse an order of cancellation. Orders for standard listed goods may be cancelled without charge only if written instructions are received at our Dallas office prior to the beginning of fabrication. Written instructions for cancellation are required for all cancelled orders.

Damage or Loss

Delivery of goods to a carrier by EMF shall constitute delivery to the Purchaser. All claims for lost or damaged shipments must be made against the carrier by the Purchaser.

Catalog Weights

All catalog weights given are estimated weights for your guide, and accuracy is not guaranteed.

Errors

All clerical errors are subject to correction.

Change Orders

Orders that require changes will be immediately placed on hold by EMF until time when the new delivery schedule and costs have been approved and signed by the Purchaser. Orders that require changes in design, fabrication, quantity, or otherwise will need instructions as to the effect of the change. The Purchaser is responsible for extra lead time and additional costs that may be required for the implementation of any changes.

Orders on Hold

Orders that are placed on hold beyond their original scheduled ship date will be invoiced at the original total on the originally scheduled ship date. Notation on the invoice will reflect that the order is still at the factory awaiting changes or release from hold. Any order that

has been determined as entering the fabrication process and is placed on hold for more than seven days without the prior written approval of an officer of the company, will be cancelled and invoiced at the amount equal to the order in effect at the time of cancellation.

Quotations and Prices

All prices and discounts are subject to change without notice. Quotations on special items will be good for 30 days from date of quotation.

Drawings

A charge will be made if we are required to prepare drawings for approval of special items. All drawings needed for the expressed intent to fabricate a specialized component, or fabrication of any sort will require customer signatory and approval. A signed drawing from an employee of the customer indicates full and complete approval and responsibility of the final design.

Terms

Net 30 days. A .2% per month interest charge will be made on all overdue accounts. All accounts are payable in U.S. currency at our Dallas Office. All orders are subject to credit approval. International accounts are subject to prior arranged terms and conditions that may include Letters of Credit, Wire Transfer of Funds prior to shipment, C.O.D., or other methods of payment prior to establishing open net terms.

Minimum Billing

Orders totalling less than \$50.00 net will be invoiced at \$50.00 plus transportation charges.



Terms and Conditions of Sale

Warranty

Products of The EMF Company, Inc. are warranted to be free from defects in workmanship materials, and components for a period of one year from date of the order. This warranty does not cover services performed, other than those services directly connected to the fabrication of a product. This warranty applies when the product supplied is operated under the following conditions: 1. Compliance with all installation, maintenance, and operating instructions are followed. 2. Use of the equipment is within its designated purpose. 3. The product has not been: further modified from its original design as shipped, abused damaged by freight or other accident, misapplied, mishandled, or otherwise misused in a manner sufficient not to result in a successful application as intended for its use. EMF assumes no liability beyond the repair or replacement of its own product, returned transportation prepaid. If within the warranty period any such products are proven to EMF's satisfaction to be defective, then and in that event such equipment shall be repaired or replaced at EMF's option. In the event that corrections or replacements are made to the defective goods, such an event will constitute fulfillment of all liabilities with respect to the goods and this warranty.

This warranty does not cover products sold by EMF under the EMF name, and not fabricated by EMF. EMF has taken appropriate measures to assure the quality and viability of such products, and they are well represented and backed by

their own fully supportable warranty. We will provide warranty information for such products upon request if needed. See page (94) of this catalog for warranty information about Climate Control Products, and page (127) for warranty information about Purging Systems.

Returned Goods

1. No items may be returned for credit without our prior permission and return authorization number.
2. All returns require a Return Authorization number whether the return reason is for warranty, freight damage, or any other type. Returns without an RA number will be refused.
3. All returns must follow established EMF return authorization procedure. Instructions to do so will be forwarded to the Purchaser in the event that goods must be returned.
4. The Purchaser assumes responsibility for following the correct instructions regarding returns and does not hold EMF liable in any way in the event that such procedure is not followed and product is returned to its original shipped destination.
5. If the return is no fault of ours, transportation must be prepaid. A 20% charge will be made for handling and restocking and this will automatically be deducted from credit given. Also deducted will be all freight charges paid by us, as well as any necessary rework to place the goods in salable condition.
6. Standard items that have been altered are *not* returnable.

7. Special items built to a customer's specifications are *not* returnable.
8. Items may *not* be returned for credit after 60 days from invoice date. Under no circumstances will credit be allowed for unauthorized rework on any materials.

Freight Allowance

F.O.B. the EMF Plant, Dallas, Texas

1. Full freight by common carrier will be prepaid on a single shipment of 1000 pounds or more to a single destination within the continental United States. Freight on shipments of 1000 pounds or more to Alaska, Hawaii, or other destinations outside the continental United States will be prepaid only to the United States port of export. Standard catalog items only are subject to freight allowances. No freight will be allowed on special items except as may be specified in our quotation. When we prepay freight, we reserve the right to choose the most economical routing. On non-qualifying prepaid shipments, we reserve the right to forward on collect freight charge basis or prepay and add to the invoice.
2. If shipment by bus, parcel post, U.P.S., air freight or any other means which requires EMF delivery to shipper is required, a net charge of \$20.00 will be made.
3. All air freight is invoiced direct to the customer's account or to the customer's directed third party account.

EMF Custom Enclosure Information

EMF Special Enclosures

EMF can manufacture your custom enclosure to your specifications and drawings. Often is the case when we get hand sketches or "napkin" drawings of a concept enclosure. In turn, we can place this information in a 2D CAD drawing for your approval. Custom enclosure fabrication is an EMF specialty, and we enjoy seeing the results of our collaboration.

Custom Design Tips

The following design tips will help you design your custom enclosure and in turn receive quick estimation response time and manufacturing turn around:

1. Be available to answer questions.

Creating a design for manufacture is a collaborative process. In creating a custom enclosure, it is often necessary to obtain clarification and working closely with the designers or engineers helps move the process along. Assigning one or a small group of individuals directly connected with the project is your best bet for a successful outcome of the design.

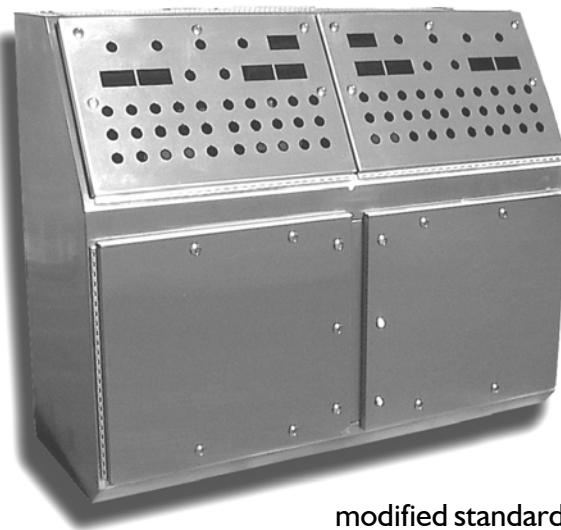
2. Develop specifications.

Although a complete engineering bill of material is not always required, some definition of

components, and material are always helpful. Estimations and designs based solely on written specification however do require further collaborative effort between the factory engineers and the customer.

3. Create a drawing or a print.

Simple modifications and



modified standard

based designs are well suited for the most simplified drawing. Complex new designs and close tolerance forms need to be communicated with 2D line drawings, CAD or otherwise, or 3D graphic models. We can import files drawn in these formats: .DXF, .DWG, .WMF, .BMP, and .EPS.

4. For quick delivery : Utilize standards.

Modified standard designs offer the best alternative for the fastest response time in estimating or in delivery of finished product. An entirely custom design can be manufactured

quicker when standard hardware is used. The point being, if EMF has fabricated a close representation of your design before, and you need quick response, your best bet may be to design along the lines of what has been done before.

5. Use readily available material from established vendors for economy

When designing your custom enclosure, the question of vendor sourcing for the enclosure components always arises. If you need to find a source for a particular component, or you need a selection of items to work with, always check with EMF first. We have established reputable vendors that we work with and our volume buying power can save you money, and response time.

6. Work with UL50 and 508 standards

Before you design an enclosure, take a moment to familiarize yourself with UL Standard 508, and 50. UL 50 focuses primarily on enclosure design. UL 508 focuses on enclosure and control panel design. In any case, these specifications are respected the world over and provide the basis of every EMF enclosure design.



Standards and General Information

Enclosures and their related accessories and components can have a confusing genealogy when it comes to standards. The standards and the associations that support them are all credible to a certain extent. Some standards are driven by a particular market, while other standards play a convincing all encompassing role regardless of any market focus. Listed below are some of the associations and their standardizations EMF follows on a day in day out basis

UL Underwriters Laboratories Inc.

UL Standards for Safety are developed under a procedure which provides for participation and comment from the affected public as well as industry. The procedure takes into consideration a survey of known existing standards and the needs and opinions of a wide variety of interests concerned with the subject matter of the standard. Thus manufacturers, consumers, individuals associated with consumer-oriented organizations, academicians, government officials, industrial and commercial users, inspection authorities, insurance interests and others provide input to UL in the formulating of UL Standards for Safety, to keep them consonant with social and technological advances. EMF utilizes listed markings for standard and custom products; recognized markings for accessories of the products; and C-UL for Canadian marking requirements.

Applicable Standards Include:

1. **ANSI/UL 50**-Enclosures for Electrical Equipment: DoD adopted April 5, 1982; NFPA 70 Covered
2. **ANSI/UL 508**-Industrial Control Equipment: NFPA 70 Covered
3. **ANSI/UL 1332**- Organic Coatings For Steel Enclosures For Outdoor Use Electrical Equipment

Manufacturer Responsibilities

1. **Follow Up Service:** Allow the UL Representative free access to inspect and to verify the results of the prescribed tests of any product intended to bear the Listing Mark. Inspection visit frequency is based on marking usage.
2. **Marking:** Restrict the use of the Listing Mark to those products that are found by the manufacturer's own quality assurance program to comply with the Procedure description.
3. **Procedure Updates:** Standards, supplements, and Procedures are to be maintained to the most recent requirements.

CSA Canadian Standards Association

The Canadian Standards Association is a not-for-profit, independent, private sector organization that serves the public, governments, and business as a forum for national consensus in the development of standards and offers them certification, testing, and related

services. It is a membership Association open to any individual, company, or organization interested in standards activities.

Applicable Standards Include:

1. C22.2 No. 94 Special Purpose Enclosures 2,3,4, and 5.
2. C22.2 No. 40 Cutout, Junction, and Pull Boxes
3. C22.2 No. 29 Panelboards and Enclosed Panelboards

Manufacturer Responsibilities

1. **Inspections:** Allow the CSA Representative free access to perform unannounced inspections of the Submitter's Equipment, Process, or Service at the Factory, Location or other premises.
2. **Certification of Equipment:** Submitter is granted a nonexclusive licence to represent the Equipment as Certified and to use the Certification Mark specified in the manner set forth in the Endorsement.

NEMA National Electrical Manufacturers Association

National Electrical Manufacturers Association Standards are adopted in the public interest and are designed to eliminate misunderstandings between the manufacturer and the purchaser and to assist the purchaser in selecting and obtaining the proper product for its particular need. Existence

Standards and General Information

of a National Electrical Manufacturers Association Standard does not in any respect preclude any member or nonmember from manufacturing or selling products not conforming to the standard.

Applicable Standards Include:

NEMA Standard 250: ANSI/NFPA 70, ANSI/NFPA 496, ANSI/NFPA 497M, ANSI/UL 698, ANSI/UL 877, ANSI/UL 886, ANSI/UL 894, IEC 529, 30 C.F.R. Part 18, NFPA 493, UL 50, UL 508, UL 913, UL Bulletin of Research #23.

Manufacturer Responsibilities :

Self-Regulated: NEMA does not provide inspections of products. It is up to the manufacturer to verify that standards are met. Additionally, NEMA encourages buyers of NEMA standard products to verify the observance of standards.

EMF also uses and references the following standards:

Agency: EIA Electronic Industries Association

Standard: EIA-310-D: Cabinets, Racks, and Associated Equipment

Agency: IEC International Electrotechnical Commission

Standard: IEC 529-1: Degrees of Protection Provided by Enclosures

Agency: NEC National Electrical Code

Standard: NFPA 70

General Information

The products shown in this catalog are designed primarily for industrial/commercial industrial electrical applications, for use by professional electricians and are not recommended for resale to the general public. Use of these products must be undertaken by skilled, trained, and certifiable electricians experienced with all applicable codes and regulations. No other use of these products is recommended unless specified and approved by EMF or in conformance with all other applicable local, state and federal laws and consumer product regulations.

Mounting Enclosures

EMF enclosures are fabricated to be mounted permanently to structures that will support the weight of the enclosure and its enclosed equipment while at the same time sustaining all other forces which the enclosure and its enclosed equipment are subjected. Each enclosure should be adequately supported during storage, assembly, and transit.

Painting Finishes

EMF can provide a variety of finishes for user specifications as well as some mil-spec requirements and silk screening.

Alterations

EMF is not responsible for the safety or effectiveness of any alterations or additions to its products not made in its plant or without the written consent to do so from EMF engineering staff.

Alterations and additions to EMF products must be made in a manner by which all incorporated standards are maintained and adhered to.

Accessory items are for use in EMF enclosures. EMF can provide similar items for use in other standard enclosures manufactured by sources other than EMF.

Specifications

The design specifications incorporated within the text of this catalog are intended as representative and illustrative of the size and function of EMF products, and may be used to an extent, as engineering specifications. Please consult EMF about its product specifications as they are subject to change without notice.



Comparison Between NEMA Types and IEC Classification Designations

IEC Publication 529 Classification of Degrees of Protection Provided by Enclosures provided a system for specifying the enclosures of electrical equipment on the basis of the degree of protection provided by the enclosure. IEC 529 does not specify degrees of protection

against mechanical damage of equipment, risk of explosions, or conditions such as moisture (produced for example by condensation), corrosive vapors, fungus, or vermin. NEMA Standards Publication 250, and UL 50, do test for environmental conditions such as

corrosion, rust, icing, oil, and coolants. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC Enclosure Classification Designation cannot be exactly equated with NEMA Enclosure Type Numbers.

Conversion of NEMA Type Numbers To IEC Classification Designations

(Cannot be used to convert IEC Classification Designations to NEMA Type Numbers)

NEMA Enclosure Type Number	IEC Enclosure Classification Designation
1	IP10
2	IP11
3	IP54
3R	IP14
3S	IP54
4 and 4X	IP56
5	IP52
6 and 6P	IP67
12 and 12K	IP52
13	IP54

Comparison of Specific Applications of Enclosures For Indoor Nonhazardous Locations

Provides a Degree of Protection Against the Following Environmental Conditions	1	3R	4	4X	12	12/3R
Incidental Contact with the enclosed equipment	X	X	X	X	X	X
Falling dirt	X	X	X	X	X	X
Falling liquids and light splashing	X	X	X	X	X	X
Circulating dust, lint, fibers, and flyings	X	X	X	X	X	X
Settling airborne dust, lint, fibers, and flyings	X	X	X	X	X	X
Hosedown and splashing water		X	X			
Oil and coolant seepage		X	X	X	X	X
Corrosive agents				X		

Comparison of Specific Applications of Enclosures For Outdoor Nonhazardous Locations

Provides a Degree of Protection Against the Following Environmental Conditions	12/3R	3	3R	4	4X
Incidental Contact with the enclosed equipment	X	X	X	X	X
Rain, snow, and sleet	X	X	X	X	X
Windblown dust		X		X	X
Hosedown				X	X
Corrosive agents				X	

NEMA Type I Panel Enclosures



Application

EMF NEMA I panel enclosures are used to house electrical and electronic instruments, terminals and controls. They are used for general purpose installations which do not require a dusttight or oiltight enclosure.

Construction

- 14 gauge steel
- Continuous hinge
- Chrome recessed latch
- Collar studs for mounting panel
- Mounting holes provided in back of enclosure
- Panels included
- Spotwelded/Stitchwelded construction
- UL listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

Accessories

See General Accessories Index page 151

- Keyed cylinder lock or T-Handle
- Touch-up paint

Modifications

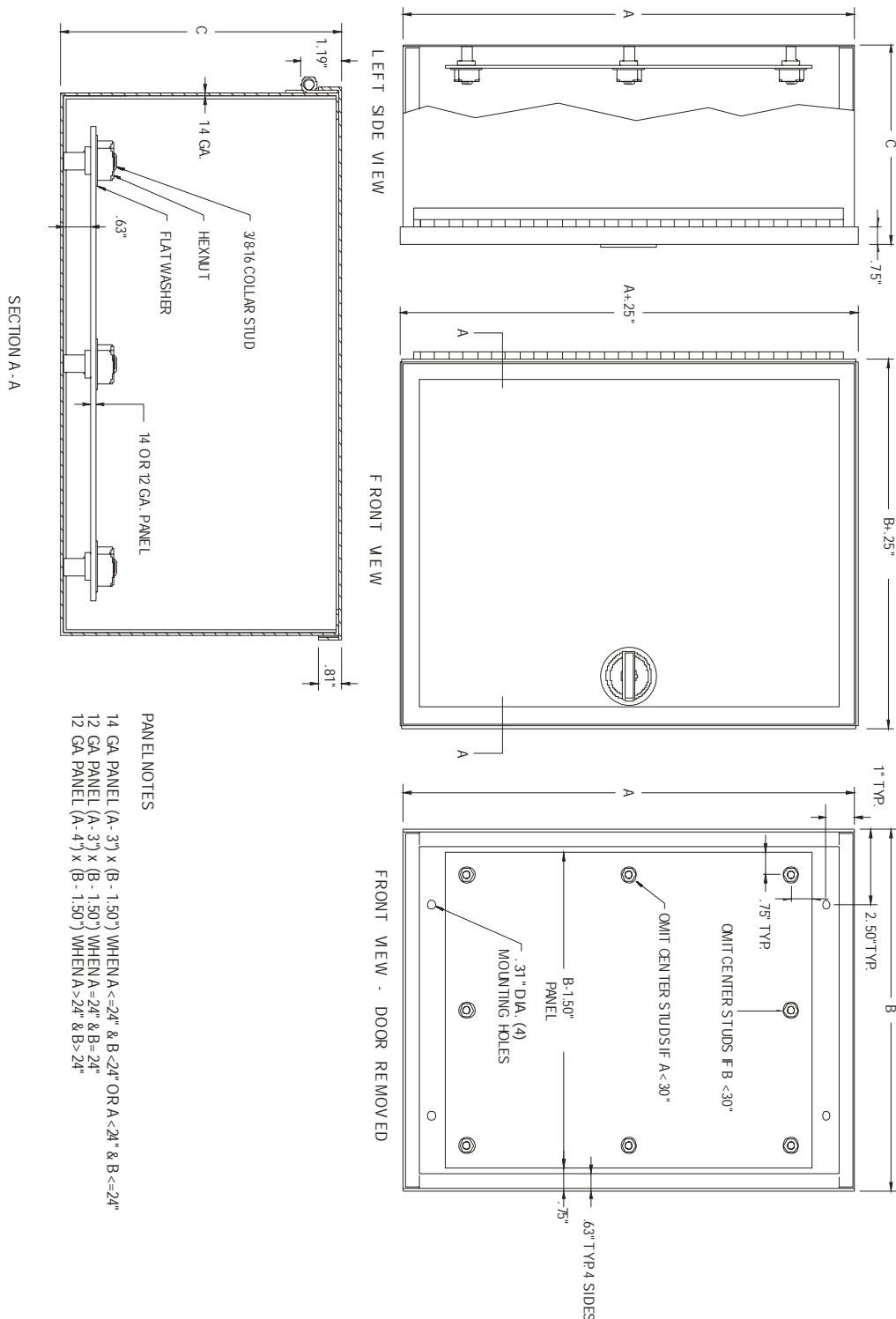
- Aluminum
- Cutouts
- Stainless
- Knockouts
- Special latches
- Special paint
- Odd sizes
- Louvers
- Galvanized steel

Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge
	A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)	
A-1612N7	16.00 x 12.00 x 6.62	406 x 305 x 168	21	A-1612P	13.00 x 10.50	330 x 267	14
A-1616N7	16.00 x 16.00 x 6.62	406 x 406 x 168	27	A-1616P	13.00 x 14.50	330 x 368	14
A-1620N7	16.00 x 20.00 x 6.62	406 X 508 X 168	31	A-2016P	17.00 x 14.50	432 x 368	14
A-2016N7	20.00 x 16.00 x 6.62	508 x 406 x 168	31	A-2016P	17.00 x 14.50	432 x 368	14
A-2020N7	20.00 x 20.00 x 6.62	508 x 508 x 168	37	A-2020P	17.00 x 18.50	432 x 470	14
A-2416N7	24.00 x 16.00 x 6.62	610 x 406 x 168	36	A-2416P	21.00 x 14.50	533 x 368	14
A-2420N7	24.00 x 20.00 x 6.62	610 x 508 x 168	43	A-2420P	21.00 x 18.50	533 x 470	14
A-2424N7	24.00 x 24.00 x 6.62	610 x 610 x 168	56	A-2424P	21.00 x 22.50	533 x 572	12
A-3020N7	30.00 x 20.00 x 6.62	762 x 508 x 168	57	A-3020P	26.00 x 18.50	660 x 470	12
A-3024N7	30.00 x 24.00 x 6.62	762 x 610 x 168	67	A-3024P	26.00 x 22.50	660 x 572	12
A-3624N7	36.00 x 24.00 x 6.62	914 x 610 x 168	78	A-3624P	32.00 x 22.50	813 x 572	12
A-3630N7	36.00 x 30.00 x 6.62	914 x 762 x 168	95	A-3630P	32.00 x 28.50	813 x 724	12
A-1612N9	16.00 x 12.00 x 8.62	406 x 305 x 219	23	A-1612P	17.00 x 14.50	432 x 368	14
A-2016N9	20.00 x 16.00 x 8.62	508 x 406 x 219	35	A-2016P	17.00 x 14.50	432 x 368	14
A-2020N9	20.00 x 20.00 x 8.62	508 x 508 x 219	40	A-2020P	17.00 x 18.50	432 x 470	14
A-2420N9	24.00 x 20.00 x 8.62	610 x 508 x 219	48	A-2420P	21.00 x 18.50	533 x 470	14
A-2424N9	24.00 x 24.00 x 8.62	610 x 610 x 219	58	A-2424P	21.00 x 22.50	533 x 572	12
A-3020N9	30.00 x 20.00 x 8.62	762 x 508 x 219	63	A-3020P	26.00 x 18.50	660 x 470	12
A-3024N9	30.00 x 24.00 x 8.62	762 x 610 x 219	74	A-3024P	26.00 x 22.50	660 x 572	12
A-3030N9	30.00 x 30.00 x 8.62	762 x 762 x 219	62	A-3030P	26.00 x 28.50	660 x 724	12
A-3624N9	36.00 x 24.00 x 8.62	914 x 610 x 219	55	A-3624P	32.00 x 22.50	813 x 572	12
A-3630N9	36.00 x 30.00 x 8.62	914 x 762 x 219	68	A-3630P	32.00 x 28.50	813 x 724	12
A-4224N9	42.00 x 24.00 x 8.62	1067 x 610 x 219	69	A-4224P	38.00 x 22.50	965 x 572	12
A-2420N11	24.00 x 20.00 x 10.62	610 x 508 x 270	42	A-2420P	21.00 x 18.50	533 x 470	14
A-3024N11	30.00 x 24.00 x 10.62	762 x 610 x 270	57	A-3024P	26.00 x 22.50	660 x 572	12
A-3630N11	36.00 x 30.00 x 10.62	914 x 762 x 270	78	A-3630P	32.00 x 28.50	813 x 724	12
A-2424N13	24.00 x 24.00 x 12.62	610 x 610 x 321	52	A-2424P	21.00 x 22.50	533 x 572	12
A-3024N13	30.00 x 24.00 x 12.62	762 x 610 x 321	61	A-3024P	26.00 x 22.50	660 x 572	12
A-3630N13	36.00 x 30.00 x 12.62	914 x 762 x 321	83	A-3630P	32.00 x 28.50	813 x 724	12

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA I Panel Enclosures



"A" dimension is hinged side.

Extra Large NEMA I Enclosures



Application

EMF extra large NEMA I enclosures are used to house electrical and electronic controls. These enclosures are intended for use indoors to prevent accidental contact with the enclosed equipment and should be used in areas which do not require oiltight and dusttight specifications.

Construction

- 14 gauge steel
- Continuous hinge
- Chrome recessed latch
- Collar studs for mounting panel
- External mounting tabs
- Door and body stiffeners provided for rigidity
- UL Listed

Finish

ANSI 61 grey polyester powder coating inside and out over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

- Keyed cylinders or "L" handles
- 3 point latches
- Window kits
- Panels
- Touch-up paint

Modifications

- Aluminum
- Stainless
- Special latches
- Odd sizes
- Galvanized steel
- Cutouts
- Knockouts
- Special paint
- Louvers

Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Stiffners	
	A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door	Body
A-4230N9	42.00 X 30.00 X 9.25	1067 X 762 X 235	84	E-4230P	39.00 X 27.00	991 X 686	12	0	0
A-4236N9	42.00 X 36.00 X 9.25	1067 X 914 X 235	97	E-4236P	39.00 X 33.00	991 X 838	12	0	1
A-4836N9	48.00 X 36.00 X 9.25	1219 X 914 X 235	109	E-4836P	45.00 X 33.00	1143 X 838	12	1	1
A-6036N9	60.00 X 36.00 X 9.25	1524 X 914 X 235	133	E-6036P	57.00 X 33.00	1448 X 838	12	1	1
A-4230N11	42.00 X 30.00 X 11.25	1067 X 762 X 286	90	E-4230P	39.00 X 27.00	991 X 686	12	1	1
A-4236N11	42.00 X 36.00 X 11.25	1067 X 914 X 286	104	E-4236P	39.00 X 33.00	991 X 838	12	1	1
A-4836N11	48.00 X 36.00 X 11.25	1219 X 914 X 286	116	E-4836P	45.00 X 33.00	1143 X 838	12	1	1
A-6036N11	60.00 X 36.00 X 11.25	1524 X 914 X 286	141	E-6036P	57.00 X 33.00	1448 X 838	12	1	1
A-4230N13	42.00 X 30.00 X 13.25	1067 X 762 X 337	97	E-4230P	39.00 X 27.00	991 X 686	12	1	1
A-4236N13	42.00 X 36.00 X 13.25	1067 X 914 X 337	111	E-4236P	39.00 X 33.00	991 X 838	12	1	1
A-4836N13	48.00 X 36.00 X 13.25	1219 X 914 X 337	124	E-4836P	45.00 X 33.00	1143 X 838	12	1	1
A-6036N13	60.00 X 36.00 X 13.25	1524 X 914 X 337	149	E-6036P	57.00 X 33.00	1448 X 838	12	1	1
A-4230N17	42.00 X 30.00 X 17.25	1067 X 762 X 438	109	E-4230P	39.00 X 27.00	991 X 686	12	1	1
A-4236N17	42.00 X 36.00 X 17.25	1067 X 914 X 438	124	E-4236P	39.00 X 33.00	991 X 838	12	1	1
A-4836N17	48.00 X 36.00 X 17.25	1219 X 914 X 438	138	E-4836P	45.00 X 33.00	1143 X 838	12	1	1
A-6036N17	60.00 X 36.00 X 17.25	1524 X 914 X 438	166	E-6036P	57.00 X 33.00	1448 X 838	12	1	1

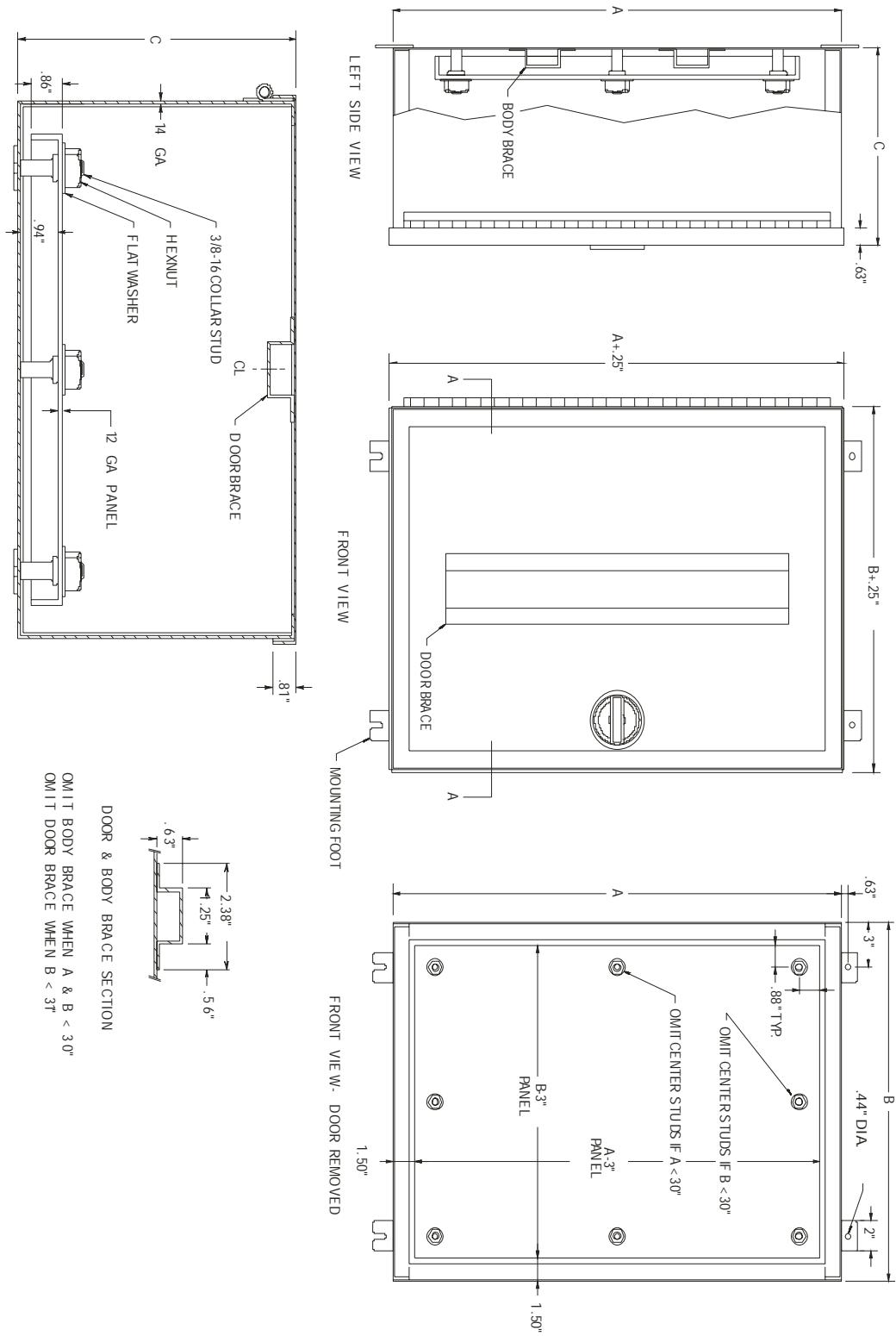
Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.



Extra Large NEMA I Enclosures

Extra Large NEMA I Enclosures



"A" dimension is hinged side.

NEMA Type 3R

Large Hinge Cover Enclosures



Application

EMF large NEMA 3R hinge cover enclosures are used for outdoor installations or indoor applications that need protection against dripping water such as wiring boxes and junction boxes.

Construction

- 14 gauge and 16 gauge steel construction, or 304SS
- Drip Shield
- Seam-free sides
- Continuously hinged
- Captivated screws to hold door shut
- External mounting feet
- Studs for mounting panels
- Hasp & Staple for padlocking
- UL listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces. No.3 brushed and blended exterior for stainless steel.

Accessories

See General Accessories Index page 151.

- Panels
- Touch-up paint
- Window kits
- Swing out panels

Modifications

- Aluminum
- Knockouts
- Galvanized steel
- Special paint
- Louvers
- Special latches
- Cutouts
- Odd sizes

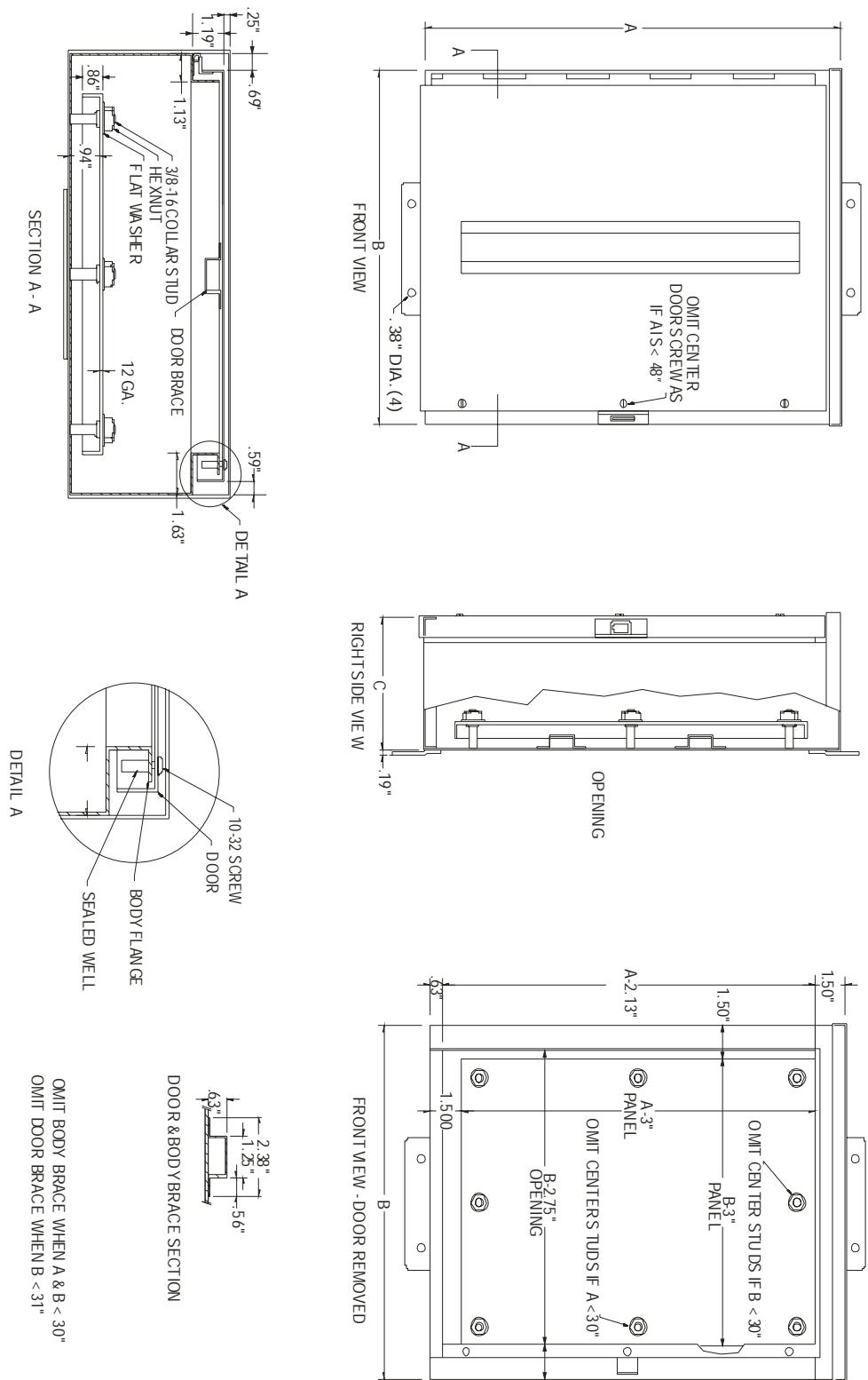
304 SS Enclosure Catalog Number	Enclosure Catalog Number	Enclosure Size		Encl Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Stiffeners	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door	Body
B-161206SSHCR	B-161206HCR	16.00 x12.00 x 6.00	406 x 305 x 152	23	E-1612P	13 X 9	330 X 229	12	0	0
B-161606SSHCR	B-161606HCR	16.00 x16.00 x 6.00	406 x 406 x 152	28	E-1616P	13 X 13	330 X 330	12	0	0
B-201606SSHCR	B-201606HCR	20.00 x16.00 x 6.00	508 x 305 x 152	32	E-2016P	17 X 13	432 X 330	12	0	0
B-202006SSHCR	B-202006HCR	20.00 x20.00 x 6.00	508 x 508 x 152	37	E-2020P	17 X 17	432 X 432	12	0	0
B-242006SSHCR	B-242006HCR	24.00 x20.00 x 6.00	610 x 508 x 152	43	E-2420P	21 X 17	533 X 432	12	0	0
B-242406SSHCR	B-242406HCR	24.00 x24.00 x 6.00	610 x 610 x 152	49	E-2424P	21 X 21	533 X 533	12	0	0
B-302406SSHCR	B-302406HCR	30.00 x24.00 x 6.00	762 x 610 x 152	59	E-3024P	27 X 21	686 X 533	12	0	0
B-362406SSHCR	B-362406HCR	36.00 x24.00 x 6.00	914 x 610 x 152	68	E-3624P	33 X 21	838 X 533	12	0	0
B-363006SSHCR	B-363006HCR	36.00 x30.00 x 6.00	914 x 762 x 152	85	E-3630P	33 X 27	838 X 686	12	0	1
B-483606SSHCR	B-483606HCR	48.00 x36.00 x 6.00	1219 x 914 x 152	98	E-4836P	45 X 33	1143 X 838	12	1	1
B-603606SSHCR	B-603606HCR	60.00 x36.00 x 6.00	1524 x 914 x 152	120	E-6036P	57 X 33	1448 X 838	12	1	1
B-161208SSHCR	B-161208HCR	16.00 x12.00 x 8.00	406 x 305 x 203	25	E-1612P	13 X 9	330 X 229	12	0	0
B-161608SSHCR	B-161608HCR	16.00 x16.00 x 8.00	406 x 406 x 203	32	E-1616P	13 X 13	330 X 330	12	0	0
B-201608SSHCR	B-201608HCR	20.00 x16.00 x 8.00	508 x 305 x 203	35	E-2016P	17 X 13	432 X 330	12	0	0
B-202008SSHCR	B-202008HCR	20.00 x20.00 x 8.00	508 x 508 x 203	41	E-2020P	17 X 17	432 X 432	12	0	0
B-242008SSHCR	B-242008HCR	24.00 x20.00 x 8.00	610 x 508 x 203	47	E-2420P	21 X 17	533 X 432	12	0	0
B-242408SSHCR	B-242408HCR	24.00 x24.00 x 8.00	610 x 610 x 203	51	E-2424P	21 X 21	533 X 533	12	0	0
B-302408SSHCR	B-302408HCR	30.00 x24.00 x 8.00	762 x 610 x 203	65	E-3024P	27 X 21	686 X 533	12	0	0
B-362408SSHCR	B-362408HCR	36.00 x24.00 x 8.00	914 x 610 x 203	74	E-3624P	33 X 21	838 X 533	12	0	0
B-363008SSHCR	B-363008HCR	36.00 x30.00 x 8.00	914 x 762 x 203	92	E-3630P	33 X 27	838 X 686	12	0	1
B-483608SSHCR	B-483608HCR	48.00 x36.00 x 8.00	1219 x 914 x 203	134	E-4836P	45 X 33	1143 X 838	12	1	1
B-603608SSHCR	B-603608HCR	60.00 x36.00 x 8.00	1524 x 914 x 203	161	E-6036P	57 X 33	1448 X 838	12	1	1
B-161210SSHCR	B-161210HCR	16.00 x12.00 x 10.00	406 x 305 x 254	28	E-1612P	13 X 9	330 X 229	12	0	0
B-161610SSHCR	B-161610HCR	16.00 x16.00 x 10.00	406 x 406 x 254	26	E-1616P	13 X 13	330 X 330	12	0	0
B-201610SSHCR	B-201610HCR	20.00 x16.00 x 10.00	508 x 305 x 254	39	E-2016P	17 X 13	432 X 330	12	0	0
B-202010SSHCR	B-202010HCR	20.00 x20.00 x 10.00	508 x 508 x 254	45	E-2020P	17 X 17	432 X 432	12	0	0
B-242010SSHCR	B-242010HCR	24.00 x20.00 x 10.00	610 x 508 x 254	51	E-2420P	21 X 17	533 X 432	12	0	0
B-242410SSHCR	B-242410HCR	24.00 x24.00 x 10.00	610 x 610 x 254	57	E-2424P	21 X 21	533 X 533	12	0	0
B-302410SSHCR	B-302410HCR	30.00 x24.00 x 10.00	762 x 610 x 254	69	E-3024P	27 X 21	686 X 533	12	0	0
B-362410SSHCR	B-362410HCR	36.00 x24.00 x 10.00	914 x 610 x 254	80	E-3624P	33 X 21	838 X 533	12	0	0
B-363010SSHCR	B-363010HCR	36.00 x30.00 x 10.00	914 x 762 x 254	98	E-3630P	33 X 27	838 X 686	12	0	1
B-483610SSHCR	B-483610HCR	48.00 x36.00 x 10.00	1219 x 914 x 254	144	E-4836P	45 X 33	1143 X 838	12	1	1
B-603610SSHCR	B-603610HCR	60.00 x36.00 x 10.00	1524 x 914 x 254	170	E-6036P	57 X 33	1448 X 838	12	1	1
B-161212SSHCR	B-161212HCR	16.00 x12.00 x 12.00	406 x 305 x 305	24	E-1612P	13 X 9	330 X 229	12	0	0
B-161612SSHCR	B-161612HCR	16.00 x16.00 x 12.00	406 x 406 x 305	29	E-1616P	13 X 13	330 X 330	12	0	0
B-201612SSHCR	B-201612HCR	20.00 x16.00 x 12.00	508 x 305 x 305	42	E-2016P	17 X 13	432 X 330	12	0	0
B-202012SSHCR	B-202012HCR	20.00 x20.00 x 12.00	508 x 508 x 305	40	E-2020P	17 X 17	432 X 432	12	0	0
B-242012SSHCR	B-242012HCR	24.00 x20.00 x 12.00	610 x 508 x 305	55	E-2420P	21 X 17	533 X 432	12	0	0
B-242412SSHCR	B-242412HCR	24.00 x24.00 x 12.00	610 x 610 x 305	62	E-2424P	21 X 21	533 X 533	12	0	0
B-302412SSHCR	B-302412HCR	30.00 x24.00 x 12.00	762 x 610 x 305	74	E-3024P	27 X 21	686 X 533	12	0	0
B-362412SSHCR	B-362412HCR	36.00 x24.00 x 12.00	914 x 610 x 305	84	E-3624P	33 X 21	838 X 533	12	0	0
B-363012SSHCR	B-363012HCR	36.00 x30.00 x 12.00	914 x 762 x 305	104	E-3630P	33 X 27	838 X 686	12	0	1
B-483612SSHCR	B-483612HCR	48.00 x36.00 x 12.00	1219 x 914 x 305	1440	E-4836P	45 X 33	1143 X 838	12	1	1
B-603612SSHCR	B-603612HCR	60.00 x36.00 x 12.00	1524 x 914 x 305	179	E-6036P	57 X 33	1448 X 838	12	1	1
B-363016SSHCR	B-363016HCR	36.00 x30.00 x 16.00	914 x 762 x 406	115	E-3630P	33 X 27	838 X 686	12	0	1
B-483616SSHCR	B-483616HCR	48.00 x36.00 x 16.00	1219 x 914 x 406	165	E-4836P	45 X 33	1143 X 838	12	1	1
B-603616SSHCR	B-603616HCR	60.00 x36.00 x 16.00	1524 x 914 x 406	196	E-6036P	57 X 33	1448 X 838	12	1	1

Any custom size at any quantity is available for this enclosure model. "A" dimension is hinged side.



NEMA Type 3R Large Hinge Cover Enclosures

NEMA 3R Large Hinge Cover Enclosures



"A" dimension is hinged side.

NEMA 4 and 4X Freestanding Enclosures

Application



F5-727224

EMF single and double-door freestanding NEMA 4 and 4X enclosures are designed to house controls, drive assemblies, and other electronic or electrical assemblies for use in corrosive, or hosed-down applications.

Construction

- 10/12 gauge steel construction
- 10/12 gauge 304 stainless steel for 4X types
- Continuously welded seams ground smooth
- Lifting eyes
- Gasketed doors
- Unistrut for mounting backpanels
- Stainless steel clamps to hold doors shut
- Pad locking hasp and staples
- UL/CSA listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces. No. 3 brushed and blended exterior for 4X.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Floor stand kits
- Print pockets
- NEMA 4 or 4X climate control
- Quick release latching

Modifications

- Holes
- Cutouts
- Special latches
- Odd sizes
- 316 SS
- Special paint jobs

NEMA 4 Freestanding Single-Door Enclosures

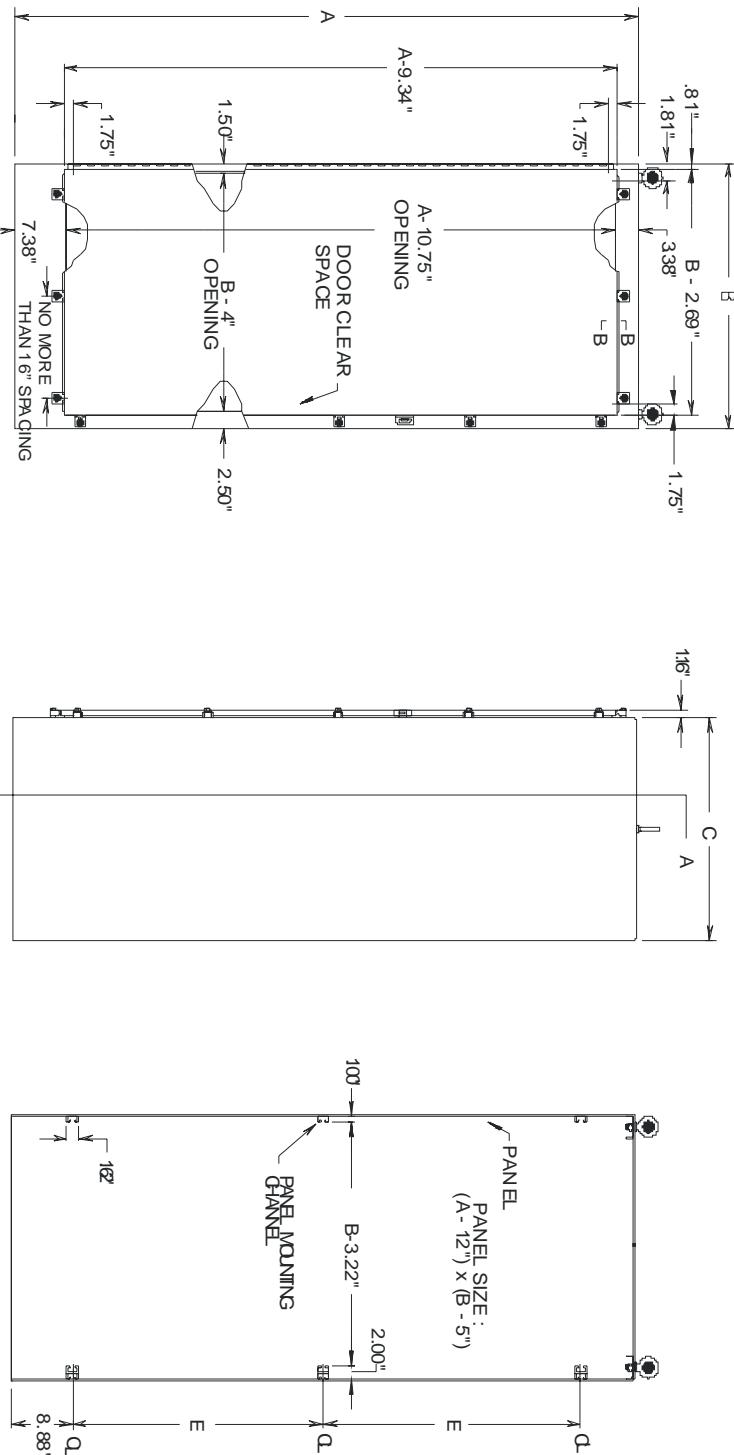
Enclosure Catalog Number	SS Enclosure Catalog Number	Enclosure Size		Encl Ship Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	QTY		"E" Dimension	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door Clamps	Eye Bolts	(inch)	(mm)
F5-722518	F5-722518N4X-SS	72.06 X 25.06 X 18.06	1830 X 637 X 459	229	E5-72P24F	60.00 X 20.00	1524 X 508	10	7	2	29.12	740
F5-722524	F5-722524N4X-SS	72.06 X 25.06 X 24.06	1830 X 637 X 611	269	E5-72P24F	60.00 X 20.00	1524 X 508	10	7	2	29.12	740
F5-722530	F5-722530N4X-SS	72.06 X 25.06 X 30.06	1830 X 637 X 763	310	E5-72P24F	60.00 X 20.00	1524 X 508	10	7	2	29.12	740
F5-722536	F5-722536N4X-SS	72.06 X 25.06 X 36.06	1830 X 637 X 915	349	E5-72P24F	60.00 X 20.00	1524 X 508	10	7	4	29.12	740
F5-723118	F5-723118N4X-SS	72.06 X 31.06 X 18.06	1830 X 789 X 459	263	E5-72P30F	60.00 X 26.00	1524 X 660	10	7	2	29.12	740
F5-723124	F5-723124N4X-SS	72.06 X 31.06 X 24.06	1830 X 789 X 611	305	E5-72P30F	60.00 X 26.00	1524 X 660	10	7	2	29.12	740
F5-723130	F5-723130N4X-SS	72.06 X 31.06 X 30.06	1830 X 789 X 763	348	E5-72P30F	60.00 X 26.00	1524 X 660	10	7	2	29.12	740
F5-723136	F5-723136N4X-SS	72.06 X 31.06 X 36.06	1830 X 789 X 915	389	E5-72P30F	60.00 X 26.00	1524 X 660	10	7	4	29.12	740
F5-723718	F5-723718N4X-SS	72.06 X 37.06 X 18.06	1830 X 941 X 459	296	E5-72P36F	60.00 X 32.00	1524 X 811	10	7	2	29.12	740
F5-723724	F5-723724N4X-SS	72.06 X 37.06 X 24.06	1830 X 941 X 611	340	E5-72P36F	60.00 X 32.00	1524 X 811	10	7	2	29.12	740
F5-723730	F5-723730N4X-SS	72.06 X 37.06 X 30.06	1830 X 941 X 763	385	E5-72P36F	60.00 X 32.00	1524 X 811	10	7	2	29.12	740
F5-723736	F5-723736N4X-SS	72.06 X 37.06 X 36.06	1830 X 941 X 915	429	E5-72P36F	60.00 X 32.00	1524 X 811	10	7	4	29.12	740
F5-902518	F5-902518N4X-SS	90.06 X 25.06 X 18.06	2288 X 637 X 459	277	E5-90P24F	78.00 X 20.00	1981 X 508	10	8	2	38.12	968
F5-902524	F5-902524N4X-SS	90.06 X 25.06 X 24.06	2288 X 637 X 611	324	E5-90P24F	78.00 X 20.00	1981 X 508	10	8	2	38.12	968
F5-902530	F5-902530N4X-SS	90.06 X 25.06 X 30.06	2288 X 637 X 763	371	E5-90P24F	78.00 X 20.00	1981 X 508	10	8	2	38.12	968
F5-902536	F5-902536N4X-SS	90.06 X 25.06 X 36.06	2288 X 637 X 915	417	E5-90P24F	78.00 X 20.00	1981 X 508	10	8	4	38.12	968
F5-903118	F5-903118N4X-SS	90.06 X 31.06 X 18.06	2288 X 789 X 459	316	E5-90P30F	78.00 X 26.00	1981 X 660	10	8	2	38.12	968
F5-903124	F5-903124N4X-SS	90.06 X 31.06 X 24.06	2288 X 789 X 611	366	E5-90P30F	78.00 X 26.00	1981 X 660	10	8	2	38.12	968
F5-903130	F5-903130N4X-SS	90.06 X 31.06 X 30.06	2288 X 789 X 763	415	E5-90P30F	78.00 X 26.00	1981 X 660	10	8	2	38.12	968
F5-903136	F5-903136N4X-SS	90.06 X 31.06 X 36.06	2288 X 789 X 915	463	E5-90P30F	78.00 X 26.00	1981 X 660	10	8	4	38.12	968
F5-903718	F5-903718N4X-SS	90.06 X 37.06 X 18.06	2288 X 941 X 459	356	E5-90P36F	78.00 X 32.00	1524 X 811	10	8	2	38.12	968
F5-903724	F5-903724N4X-SS	90.06 X 37.06 X 24.06	2288 X 941 X 611	407	E5-90P36F	78.00 X 32.00	1524 X 811	10	8	2	38.12	968
F5-903730	F5-903730N4X-SS	90.06 X 37.06 X 30.06	2288 X 941 X 763	458	E5-90P36F	78.00 X 32.00	1524 X 811	10	8	2	38.12	968
F5-903736	F5-903736N4X-SS	90.06 X 37.06 X 36.06	2288 X 941 X 915	509	E5-90P36F	78.00 X 32.00	1524 X 811	10	8	4	38.12	968

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 4 and 4X Freestanding Enclosures

NEMA 4 Single-Door Freestanding Enclosure



NEMA 4 and 4X Freestanding Enclosures

NEMA 4 Freestanding Two-Door Enclosures

Encl Catalog Number	304 Stainless Steel Enclosure Catalog Number	Enclosure Size		Encl Ship Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Qty		"E" Dimension	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door Clamps	Eye Bolts	(inch)	(mm)
F5-604818	F5-604818N4X-SS	60.06 X48.06 X18.06	1524 X1219 X457	295	E5-60P48F	48.00 X44.00	1219 X1118	10	14	2	23.12	587
F5-604824	F5-604824N4X-SS	60.06 X48.06 X24.06	1524 X1219 X610	334	E5-60P48F	48.00 X44.00	1219 X1118	10	14	2	23.12	587
F5-604836	F5-604836N4X-SS	60.06 X48.06 X36.06	1524 X1219 X914	413	E5-60P48F	48.00 X44.00	1219 X1118	10	14	4	23.12	587
F5-606018	F5-606018N4X-SS	60.06 X60.06 X18.06	1524 X1524 X457	351	E5-60P60F	48.00 X56.00	1219 X1422	10	14	2	23.12	587
F5-606024	F5-606024N4X-SS	60.06 X60.06 X24.06	1524 X1524 X610	395	E5-60P60F	48.00 X56.00	1219 X1422	10	14	2	23.12	587
F5-606036	F5-606036N4X-SS	60.06 X60.06 X36.06	1524 X1524 X914	483	E5-60P60F	48.00 X56.00	1219 X1422	10	14	4	23.12	587
F5-724818	F5-724818N4X-SS	72.06 X48.06 X18.06	1829 X1219 X457	346	E5-72P48F	60.00 X44.00	1524 X1118	10	14	2	29.12	740
F5-724824	F5-724824N4X-SS	72.06 X48.06 X24.06	1829 X1219 X610	387	E5-72P48F	60.00 X44.00	1524 X1118	10	14	2	29.12	740
F5-724836	F5-724836N4X-SS	72.06 X48.06 X36.06	1829 X1219 X914	474	E5-72P48F	60.00 X44.00	1524 X1118	10	14	4	29.12	740
F5-726018	F5-726018N4X-SS	72.06 X60.06 X18.06	1829 X1524 X457	408	E5-72P60F	60.00 X56.00	1524 X1422	10	14	2	29.12	740
F5-726024	F5-726024N4X-SS	72.06 X60.06 X24.06	1829 X1524 X610	457	E5-72P60F	60.00 X56.00	1524 X1422	10	14	2	29.12	740
F5-726036	F5-726036N4X-SS	72.06 X60.06 X36.06	1829 X1524 X914	553	E5-72P60F	60.00 X56.00	1524 X1422	10	14	4	29.12	740
F5-727218	F5-727218N4X-SS	72.06 X72.06 X18.06	1829 X1829 X457	474	E5-72P72F	60.00 X68.00	1524 X1727	10	18	2	29.12	740
F5-727224	F5-727224N4X-SS	72.06 X72.06 X24.06	1829 X1829 X610	653	E5-72P72F	60.00 X68.00	1524 X1727	10	18	2	29.12	740
F5-727236	F5-727236N4X-SS	72.06 X72.06 X36.06	1829 X1829 X914	761	E5-72P72F	60.00 X68.00	1524 X1727	10	18	4	29.12	740
F5-904818	F5-904818N4X-SS	90.06 X48.06 X18.06	2286 X1219 X457	488	E5-90P48F	78.00 X44.00	1981 X1118	10	18	2	38.12	968
F5-904820	F5-904820N4X-SS	90.06 X48.06 X20.06	2286 X1219 X508	498	E5-90P48F	78.00 X44.00	1981 X1118	10	18	2	38.12	968
F5-904824	F5-904824N4X-SS	90.06 X48.06 X24.06	2286 X1219 X610	531	E5-90P48F	78.00 X44.00	1981 X1118	10	18	2	38.12	968
F5-904836	F5-904836N4X-SS	90.06 X48.06 X36.06	2286 X1219 X914	632	E5-90P48F	78.00 X44.00	1981 X1118	10	18	4	38.12	968
F5-906018	F5-906018N4X-SS	90.06 X60.06 X18.06	2286 X1524 X457	584	E5-90P60F	78.00 X56.00	1981 X1422	10	18	2	38.12	968
F5-906020	F5-906020N4X-SS	90.06 X60.06 X20.06	2286 X1524 X508	595	E5-90P60F	78.00 X56.00	1981 X1422	10	18	2	38.12	968
F5-906024	F5-906024N4X-SS	90.06 X60.06 X24.06	2286 X1524 X610	635	E5-90P60F	78.00 X56.00	1981 X1422	10	18	2	38.12	968
F5-906036	F5-906036N4X-SS	90.06 X60.06 X36.06	2286 X1524 X914	757	E5-90P60F	78.00 X56.00	1981 X1422	10	18	4	38.12	968
F5-907218	F5-907218N4X-SS	90.06 X72.06 X18.06	2286 X1829 X457	662	E5-90P72F	78.00 X68.00	1981 X1727	10	22	4	38.12	968
F5-907220	F5-907220N4X-SS	90.06 X72.06 X20.06	2286 X1829 X508	684	E5-90P72F	78.00 X68.00	1981 X1727	10	22	4	38.12	968
F5-907224	F5-907224N4X-SS	90.06 X72.06 X24.06	2286 X1829 X610	727	E5-90P72F	78.00 X68.00	1981 X1727	10	22	4	38.12	968
F5-907236	F5-907236N4X-SS	90.06 X72.06 X36.06	2286 X1829 X914	858	E5-90P72F	78.00 X68.00	1981 X1727	10	22	4	38.12	968

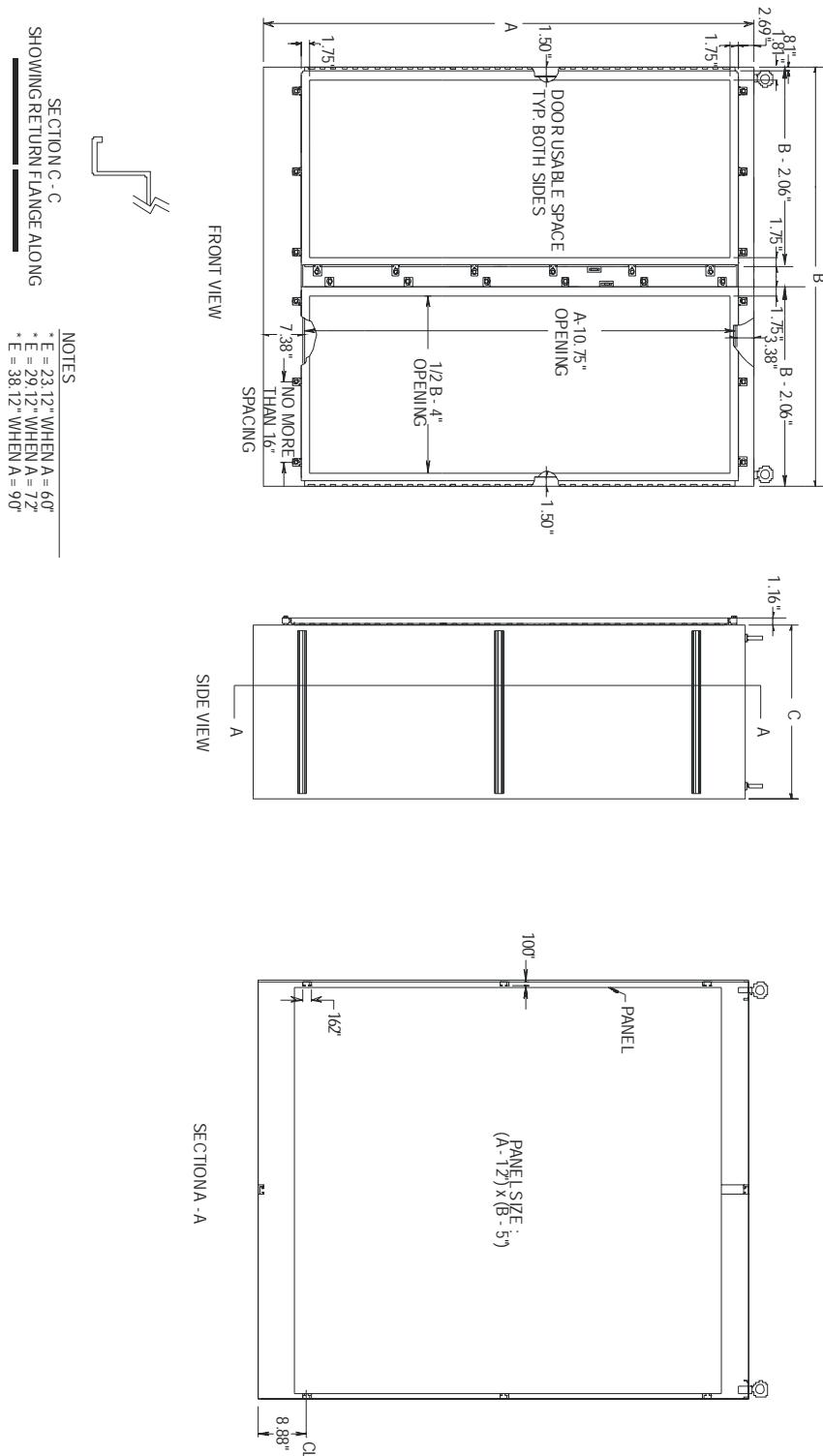
Any custom size at any quantity is available for this enclosure model.



Custom Single Door Type 4

"A" dimension is hinged side.

NEMA 4 Two-Door Freestanding Enclosure



"A" dimension is hinged side.

NEMA 4 and 4X Single-Door Wallmount Enclosures

Painted NEMA 4



Application

EMF NEMA 4 single-door enclosures are designed to house electrical controls, instruments, and components in areas which are hosed-down regularly, where splashing water exists, and for protection against falling rain. Suitable for use outdoors, on docks, ship decks, dairies, breweries, packing houses, chemical plants, water treatment facilities, sewage plants, and related installations.

Construction

- UL listed
- 12 gauge and 14 gauge steel construction
- Continuously welded seams
- Rolled lip
- Oil-resistant gasket
- Gasket retainer
- Stainless exterior hardware
- Stainless hinge pin
- External mounting feet
- Hasp & staple
- Collar studs for mounting panels

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

- Panels
- Floor stand kits
- Window kits
- Swingout panels
- Print pocket
- Quick release latches

Modifications

- | | |
|--|---|
| <ul style="list-style-type: none"> • Odd sizes • Knockouts • Louvers | <ul style="list-style-type: none"> • Special paint • Cutouts • Special latches |
| <ul style="list-style-type: none"> • White enamel inside; primer finish outside over phosphatized surfaces. | |

304 & 316 Stainless NEMA 4X



Application

EMF NEMA 4 single-door enclosures are designed to house electrical controls, instruments, and components in areas which are hosed-down regularly, where splashing water exists, and for protection against falling rain. Suitable for use outdoors, on docks, ship decks, dairies, breweries, packing houses, chemical plants, water treatment facilities, sewage plants, and related installations.

Construction

- UL listed
- 12 gauge, 14 gauge, 304 or 316 stainless steel construction
- Rolled lip
- Oil-resistant gasket
- Stainless exterior hardware (304SS)
- Continuously welded seams
- External mounting feet (304SS)
- Hasp & staple (304SS)
- Stainless collar studs for mounting panels (304SS)

Finish

Brushed and blended No. 3 finish provided. Corrosion resistant 4X exposure.

Accessories

See General Accessories Index page 151.

- Steel panels
- Stainless panels
- Stainless window kits
- Swingout panels
- Stainless floor stand kits
- Print pocket
- Quick release latches

Modifications

- | | |
|--|--|
| <ul style="list-style-type: none"> • Odd sizes • Passivation treatments • Cutouts | <ul style="list-style-type: none"> • Special finishes • Knockouts • Louvers |
|--|--|

Aluminum NEMA 4



Application

EMF NEMA 4 single-door enclosures are designed to house electrical controls, instruments, and components in areas which are hosed-down regularly, where splashing water exists, and for protection against falling rain. Suitable for use outdoors, on docks, ship decks, dairies, breweries, packing houses, chemical plants, water treatment facilities, sewage plants, and related installations.

Construction

- UL listed
- .080 5052 H32 aluminum construction
- Continuously welded seams
- Rolled lip
- Oil-resistant gasket
- Stainless exterior hardware
- Aluminum hinges
- External mounting feet
- Hasp & staple
- Aluminum all thread rod for mounting panel

Finish

Brushed aluminum unpainted finish.

Accessories

See General Accessories Index page 151.

- Steel panels
- Aluminum panels
- Window kits
- Swingout panels
- Print pocket
- Quick release latches

Modifications

- | | |
|---|---|
| <ul style="list-style-type: none"> • Odd sizes • Anodizing • Cutouts | <ul style="list-style-type: none"> • Special paint • Knockouts • Louvers |
|---|---|



NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door Painted Wallmount Enclosures

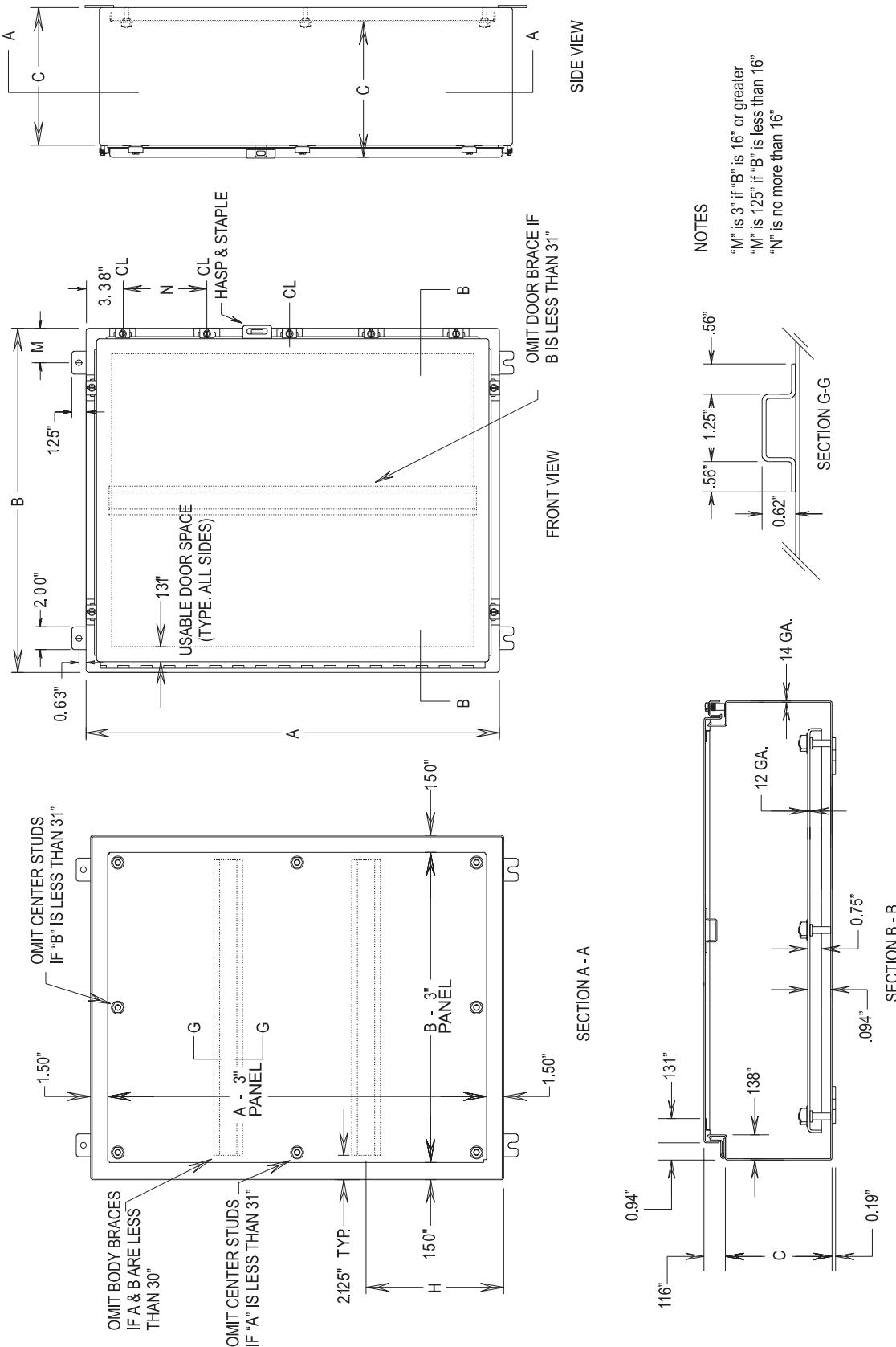
Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	QTY Door Clamps	Stiffeners	
	A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			Door	Body
F-161206N4	16.00 X 12.00 X 6.00	406 X 305 X 152	23	E-1612P	13 X 9	330 X 229	12	4	0	0
F-161208N4	16.00 X 12.00 X 8.00	406 X 305 X 203	25	E-1612P	13 X 9	330 X 229	12	4	0	0
F-161210N4	16.00 X 12.00 X 10.00	406 X 305 X 203	27	E-1612P	13 X 9	330 X 229	12	4	0	0
F-161606N4	16.00 X 16.00 X 6.00	406 X 406 X 152	28	E-1616P	13 X 13	330 X 330	12	4	0	0
F-161608N4	16.00 X 16.00 X 8.00	406 X 406 X 203	31	E-1616P	13 X 13	330 X 330	12	4	0	0
F-162006N4	16.00 X 20.00 X 6.00	406 X 508 X 152	32	E-2016P	17 X 13	432 X 330	12	4	0	0
F-201606N4	20.00 X 16.00 X 6.00	508 X 406 X 152	32	E-2016P	17 X 13	432 X 330	12	4	0	0
F-201608N4	20.00 X 16.00 X 8.00	508 X 406 X 203	35	E-2016P	17 X 13	432 X 330	12	4	0	0
F-201610N4	20.00 X 16.00 X 10.00	508 X 406 X 254	39	E-2016P	17 X 13	432 X 330	12	4	0	0
F-202006N4	20.00 X 20.00 X 6.00	508 X 508 X 152	38	E-2020P	17 X 17	432 X 432	12	4	0	0
F-202008N4	20.00 X 20.00 X 8.00	508 X 508 X 203	42	E-2020P	17 X 17	432 X 432	12	4	0	0
F-202408N4	20.00 X 24.00 X 8.00	508 X 610 X 203	47	E-2420P	21 X 17	533 X 432	12	5	0	0
F-241206N4	24.00 X 12.00 X 6.00	610 X 305 X 152	31	E-2412P	21 X 9	533 X 229	12	5	0	0
F-241606N4	24.00 X 16.00 X 6.00	610 X 508 X 152	36	E-2416P	21 X 13	533 X 330	12	5	0	0
F-241608N4	24.00 X 16.00 X 8.00	610 X 508 X 203	38/	E-2416P	21 X 13	533 X 330	12	5	0	0
F-242006N4	24.00 X 20.00 X 6.00	610 X 508 X 152	43	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242008N4	24.00 X 20.00 X 8.00	610 X 508 X 203	47	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242010N4	24.00 X 20.00 X 10.00	610 X 508 X 254	52	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242012N4	24.00 X 20.00 X 12.00	610 X 508 X 305	54	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242406N4	24.00 X 24.00 X 6.00	610 X 610 X 152	49	E-2424P	21 X 21	533 X 533	12	5	0	0
F-242408N4	24.00 X 24.00 X 8.00	610 X 610 X 203	54	E-2424P	21 X 21	533 X 533	12	5	0	0
F-242410N4	24.00 X 24.00 X 10.00	610 X 610 X 254	56	E-2424P	21 X 21	533 X 533	12	5	0	0
F-242412N4	24.00 X 24.00 X 12.00	610 X 610 X 305	58	E-2424P	21 X 21	533 X 533	12	5	0	0
F-243008N4	24.00 X 30.00 X 8.00	610 X 762 X 203	65	E-3024P	27 X 21	686 X 533	12	7	0	0
F-302006N4	30.00 X 20.00 X 6.00	762 X 508 X 152	53	E-3020P	27 X 17	686 X 432	12	5	0	0
F-302008N4	30.00 X 20.00 X 8.00	762 X 508 X 203	57	E-3020P	27 X 17	686 X 432	12	5	0	0
F-302406N4	30.00 X 24.00 X 6.00	762 X 610 X 152	60	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302408N4	30.00 X 24.00 X 8.00	762 X 610 X 203	65	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302410N4	30.00 X 24.00 X 10.00	762 X 610 X 254	70	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302412N4	30.00 X 24.00 X 12.00	762 X 610 X 305	75	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302416N4	30.00 X 24.00 X 16.00	762 X 610 X 406	78	E-3024P	27 X 21	686 X 533	12	5	0	0
F-303008N4	30.00 X 30.00 X 8.00	762 X 762 X 203	78	E-3030P	27 X 27	686 X 686	12	7	0	1
F-303616N4	30.00 X 36.00 X 16.00	762 X 914 X 406	117	E-3630P	33 X 27	838 X 686	12	7	0	1
F-362406N4	36.00 X 24.00 X 6.00	914 X 610 X 152	69	E-3624P	33 X 21	838 X 533	12	5	0	0
F-362408N4	36.00 X 24.00 X 8.00	914 X 610 X 203	75	E-3624P	33 X 21	838 X 533	12	5	0	0
F-362410N4	36.00 X 24.00 X 10.00	914 X 610 X 254	80	E-3624P	33 X 21	838 X 533	12	5	0	0
F-362412N4	36.00 X 24.00 X 12.00	914 X 610 X 305	85	E-3624P	33 X 21	838 X 533	12	5	0	0
F-362416N4	36.00 X 24.00 X 16.00	914 X 610 X 406	81	E-3624P	33 X 21	838 X 533	12	5	0	0
F-363008N4	36.00 X 30.00 X 8.00	914 X 762 X 203	92	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363010N4	36.00 X 30.00 X 10.00	914 X 762 X 254	98	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363012N4	36.00 X 30.00 X 12.00	914 X 762 X 305	104	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363016N4	36.00 X 30.00 X 16.00	914 X 762 X 406	117	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363608N4	36.00 X 36.00 X 8.00	914 X 914 X 203	106	E-3636P	33 X 33	838 X 838	12	7	1	1
F-363610N4	36.00 X 36.00 X 10.00	914 X 914 X 254	117	E-3636P	33 X 33	838 X 838	12	7	1	1
F-363612N4	36.00 X 36.00 X 12.00	914 X 914 X 305	123	E-3636P	33 X 33	838 X 838	12	7	1	1
F-363616N4	36.00 X 36.00 X 16.00	914 X 914 X 406	136	E-3636P	33 X 33	838 X 838	12	7	1	1
F-423008N4	42.00 X 30.00 X 8.00	1067 X 762 X 203	106	E-4230P	39 X 27	991 X 686	12	8	1	1
F-423010N4	42.00 X 30.00 X 10.00	1067 X 762 X 254	112	E-4230P	39 X 27	991 X 686	12	8	1	1
F-423608N4	42.00 X 36.00 X 8.00	1067 X 914 X 203	125	E-4236P	39 X 33	991 X 838	12	8	1	1
F-423612N4	42.00 X 36.00 X 12.00	1067 X 914 X 305	139	E-4236P	39 X 33	991 X 838	12	8	1	1
F-483010N4	48.00 X 30.00 X 10.00	1219 X 762 X 254	125	E-4830P	45 X 27	1143 X 686	12	8	1	1
F-483608N4	48.00 X 36.00 X 8.00	1219 X 914 X 203	139	E-4836P	45 X 33	1143 X 838	12	8	1	1
F-483610N4	48.00 X 36.00 X 10.00	1219 X 914 X 254	147	E-4836P	45 X 33	1143 X 838	12	8	1	1
F-483612N4	48.00 X 36.00 X 12.00	1219 X 914 X 305	154	E-4836P	45 X 33	1143 X 838	12	8	1	1
F-483616N4	48.00 X 36.00 X 16.00	1219 X 914 X 406	170	E-4836P	45 X 33	1143 X 838	12	8	1	1
F-603608N4	60.00 X 36.00 X 8.00	1524 X 914 X 203	167	E-6036P	57 X 33	1448 X 838	12	9	1	1
F-603610N4	60.00 X 36.00 X 10.00	1524 X 914 X 254	176	E-6036P	57 X 33	1448 X 838	12	9	1	1
F-603612N4	60.00 X 36.00 X 12.00	1524 X 914 X 305	184	E-6036P	57 X 33	1448 X 838	12	9	1	1
F-603616N4	60.00 X 36.00 X 16.00	1524 X 914 X 406	201	E-6036P	57 X 33	1448 X 838	12	9	1	1

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door Painted Wallmount Enclosures



"A" dimension is hinged side.



NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door SS Wallmount Enclosures

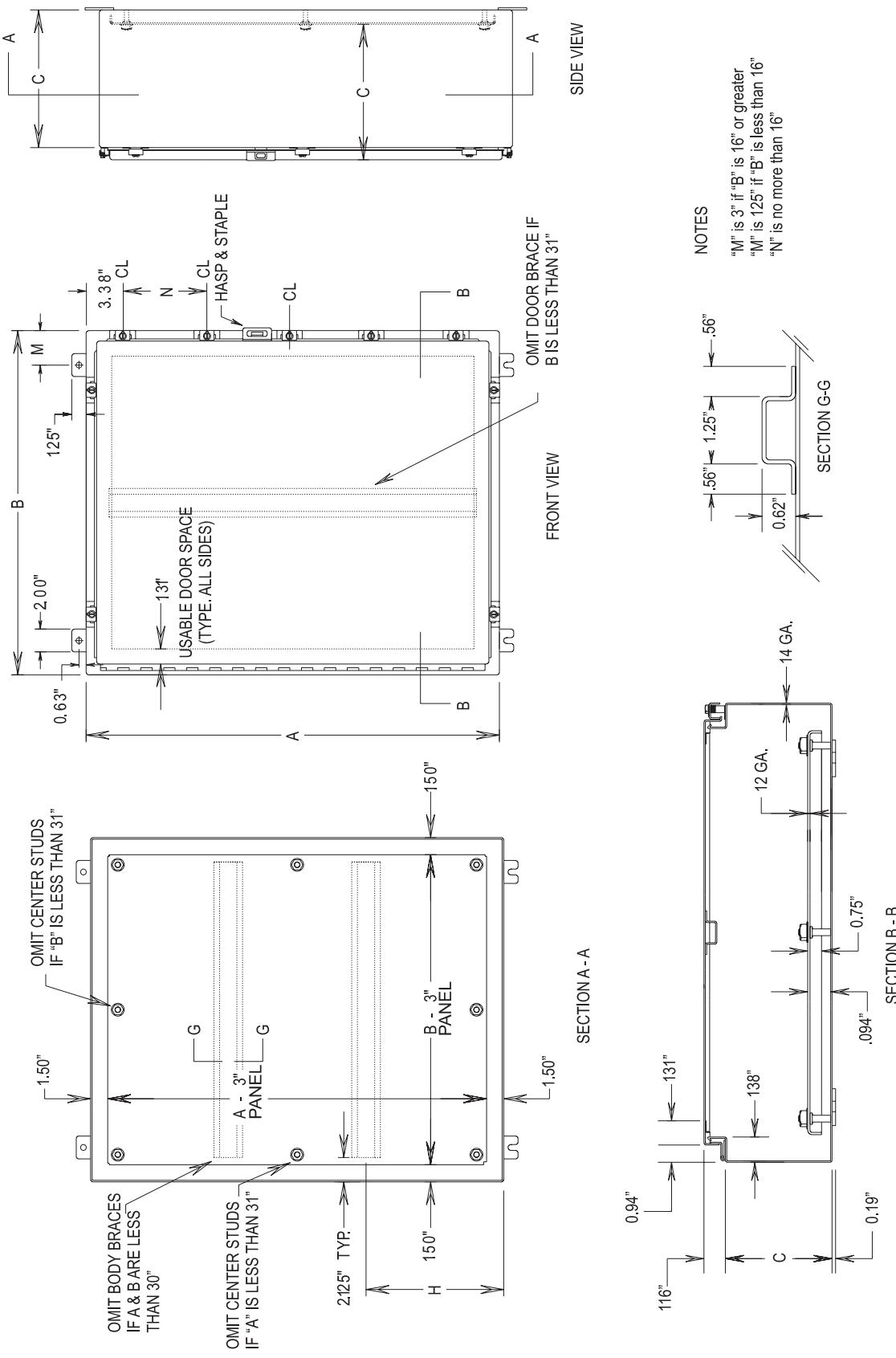
Enclosure Catalog Number Type 304SS	Enclosure Catalog Number Type 316SS	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Type 304 Stainless Steel Panel Catalog Number	Panel Size		Panel Gauge	Qty Door Clamps	Stiffners Body
		A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)			
F-161206N4X-SS	F-161206N4X-316SS	16.00 X 12.00 X 6.00	406 X 305 X 152	23	E-1612P	E-1612PSS	13 X 9	330 X 229	12	4	0
F-161208N4X-SS	F-161208N4X-316SS	16.00 X 12.00 X 8.00	406 X 305 X 203	25	E-1612P	E-1612PSS	13 X 9	330 X 229	12	4	0
F-161606N4X-SS	F-161606N4X-316SS	16.00 X 16.00 X 6.00	406 X 406 X 152	28	E-1616P	E-1616PSS	13 X 13	330 X 330	12	4	0
F-161608N4X-SS	F-161608N4X-316SS	16.00 X 16.00 X 8.00	406 X 406 X 203	31	E-1616P	E-1616PSS	13 X 13	330 X 330	12	4	0
F-162006N4X-SS	F-162006N4X-316SS	16.00 X 20.00 X 6.00	406 X 508 X 152	32	E-2016P	E-2016PSS	17 X 13	432 X 330	12	4	0
F-201606N4X-SS	F-201606N4X-316SS	20.00 X 16.00 X 6.00	508 X 406 X 152	32	E-2016P	E-2016PSS	17 X 13	432 X 330	12	4	0
F-201608N4X-SS	F-201608N4X-316SS	20.00 X 16.00 X 8.00	508 X 406 X 203	35	E-2016P	E-2016PSS	17 X 13	432 X 330	12	4	0
F-201610N4X-SS	F-201610N4X-316SS	20.00 X 16.00 X 10.00	508 X 406 X 254	39	E-2016P	E-2016PSS	17 X 13	432 X 330	12	4	0
F-202006N4X-SS	F-202006N4X-316SS	20.00 X 20.00 X 6.00	508 X 508 X 152	38	E-2020P	E-2020PSS	17 X 17	432 X 432	12	4	0
F-202008N4X-SS	F-202008N4X-316SS	20.00 X 20.00 X 8.00	508 X 508 X 203	42	E-2020P	E-2020PSS	17 X 17	432 X 432	12	4	0
F-202408N4X-SS	F-202408N4X-316SS	20.00 X 24.00 X 8.00	508 X 610 X 203	47	E-2420P	E-2420PSS	21 X 17	533 X 432	12	5	0
F-241608N4X-SS	F-241608N4X-316SS	24.00 X 16.00 X 8.00	610 X 508 X 203	38	E-2420P	E-2420PSS	21 X 17	533 X 432	12	5	0
F-242006N4X-SS	F-242006N4X-316SS	24.00 X 20.00 X 6.00	610 X 508 X 152	43	E-2420P	E-2420PSS	21 X 17	533 X 432	12	5	0
F-242008N4X-SS	F-242008N4X-316SS	24.00 X 20.00 X 8.00	610 X 508 X 203	47	E-2420P	E-2420PSS	21 X 17	533 X 432	12	5	0
F-242010N4X-SS	F-242010N4X-316SS	24.00 X 20.00 X 10.00	610 X 508 X 254	52	E-2420P	E-2420PSS	21 X 17	533 X 432	12	5	0
F-242406N4X-SS	F-242406N4X-316SS	24.00 X 24.00 X 6.00	610 X 610 X 152	49	E-2424P	E-2424PSS	21 X 21	533 X 533	12	5	0
F-242408N4X-SS	F-242408N4X-316SS	24.00 X 24.00 X 8.00	610 X 610 X 203	54	E-2424P	E-2424PSS	21 X 21	533 X 533	12	5	0
F-242410N4X-SS	F-242410N4X-316SS	24.00 X 24.00 X 10.00	610 X 610 X 254	58	E-2424P	E-2424PSS	21 X 21	533 X 533	12	5	0
F-242412N4X-SS	F-242412N4X-316SS	24.00 X 24.00 X 12.00	610 X 610 X 305	62	E-2424P	E-2424PSS	21 X 21	533 X 533	12	5	0
F-243008N4X-SS	F-243008N4X-316SS	24.00 X 30.00 X 8.00	610 X 762 X 203	65	E-3024P	E-3024PSS	27 X 21	686 X 533	12	5	0
F-302008N4X-SS	F-302008N4X-316SS	30.00 X 20.00 X 8.00	762 X 508 X 203	57	E-3020P	E-3020PSS	27 X 17	686 X 432	12	5	0
F-302408N4X-SS	F-302408N4X-316SS	30.00 X 24.00 X 8.00	762 X 610 X 203	65	E-3024P	E-3024PSS	27 X 21	686 X 533	12	5	0
F-302410N4X-SS	F-302410N4X-316SS	30.00 X 24.00 X 10.00	762 X 610 X 254	70	E-3024P	E-3024PSS	27 X 21	686 X 533	12	5	0
F-302412N4X-SS	F-302412N4X-316SS	30.00 X 24.00 X 12.00	762 X 610 X 305	75	E-3024P	E-3024PSS	27 X 21	686 X 533	12	5	0
F-302416N4X-SS	F-302416N4X-316SS	30.00 X 24.00 X 16.00	762 X 610 X 406	84	E-3024P	E-3024PSS	27 X 21	686 X 533	12	5	0
F-303008N4X-SS	F-303008N4X-316SS	30.00 X 30.00 X 8.00	762 X 762 X 203	78	E-3030P	E-3030PSS	27 X 27	686 X 686	12	7	1
F-303616N4X-SS	F-303616N4X-316SS	30.00 X 36.00 X 16.00	762 X 914 X 406	117	E-3630P	E-3630PSS	33 X 27	838 X 686	12	7	1
F-362408N4X-SS	F-362408N4X-316SS	36.00 X 24.00 X 8.00	914 X 610 X 203	75	E-3624P	E-3624PSS	33 X 21	838 X 533	12	5	0
F-362410N4X-SS	F-362410N4X-316SS	36.00 X 24.00 X 10.00	914 X 610 X 254	80	E-3624P	E-3624PSS	33 X 21	838 X 533	12	5	0
F-362412N4X-SS	F-362412N4X-316SS	36.00 X 24.00 X 12.00	914 X 610 X 305	85	E-3624P	E-3624PSS	33 X 21	838 X 533	12	5	0
F-363008N4X-SS	F-363008N4X-316SS	36.00 X 30.00 X 8.00	914 X 762 X 203	92	E-3630P	E-3630PSS	33 X 27	838 X 686	12	7	1
F-363010N4X-SS	F-363010N4X-316SS	36.00 X 30.00 X 10.00	914 X 762 X 254	98	E-3630P	E-3630PSS	33 X 27	838 X 686	12	7	1
F-363012N4X-SS	F-363012N4X-316SS	36.00 X 30.00 X 12.00	914 X 762 X 305	104	E-3630P	E-3630PSS	33 X 27	838 X 686	12	7	1
F-363016N4X-SS	F-363016N4X-316SS	36.00 X 30.00 X 16.00	914 X 762 X 406	117	E-3630P	E-3630PSS	33 X 27	838 X 686	12	7	1
F-363612N4X-SS	F-363612N4X-316SS	36.00 X 36.00 X 12.00	914 X 914 X 305	123	E-3636P	E-3636PSS	33 X 33	838 X 838	12	7	1
F-423010N4X-SS	F-423010N4X-316SS	42.00 X 30.00 X 10.00	1067 X 762 X 254	112	E-4230P	E-4230PSS	39 X 27	991 X 686	12	8	1
F-423608N4X-SS	F-423608N4X-316SS	42.00 X 36.00 X 8.00	1067 X 914 X 203	125	E-4236P	E-4236PSS	39 X 33	991 X 838	12	8	1
F-423612N4X-SS	F-423612N4X-316SS	42.00 X 36.00 X 12.00	1067 X 914 X 305	139	E-4236P	E-4236PSS	39 X 33	991 X 838	12	8	1
F-483608N4X-SS	F-483608N4X-316SS	48.00 X 36.00 X 8.00	1219 X 914 X 203	139	E-4836P	E-4836PSS	45 X 33	1143 X 838	12	8	1
F-483610N4X-SS	F-483610N4X-316SS	48.00 X 36.00 X 10.00	1219 X 914 X 254	147	E-4836P	E-4836PSS	45 X 33	1143 X 838	12	8	1
F-483612N4X-SS	F-483612N4X-316SS	48.00 X 36.00 X 12.00	1219 X 914 X 305	154	E-4836P	E-4836PSS	45 X 33	1143 X 838	12	8	1
F-483616N4X-SS	F-483616N4X-316SS	48.00 X 36.00 X 16.00	1219 X 914 X 406	170	E-4836P	E-4836PSS	45 X 33	1143 X 838	12	8	1
F-603612N4X-SS	F-603612N4X-316SS	60.00 X 36.00 X 12.00	1524 X 914 X 305	184	E-6036P	E-6036PSS	57 X 33	1448 X 838	12	9	1
F-603616N4X-SS	F-603616N4X-316SS	60.00 X 36.00 X 16.00	1524 X 914 X 406	201	E-6036P	E-6036PSS	57 X 33	1448 X 838	12	9	1

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door SS Wallmount Enclosures



"A" dimension is hinged side.

NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door Aluminum Wallmount Enclosures

Enclosure Catalog Number Type 304SS	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Aluminum Panel Catalog Number	Panel Size		Panel Gauge	M" Dimension		Qty Door Clamps	Stiffners	
	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)		INCH	MM		Door	Body
F-161206N4-AL	16.00 X 12.00 X 6.00	406 X 305 X 152	9	E-1612P	F-1612PN4-AL	13 X 9	330 X 229	12	1.25	32	6	0	0
F-161608N4-AL	16.00 X 16.00 X 8.00	406 X 406 X 203	15	E-1616P	F-1616PN4-AL	13 X 13	330 X 330	12	3.00	76	6	0	0
F-201606N4-AL	20.00 X 16.00 X 6.00	508 X 406 X 152	13	E-2016P	F-2016PN4-AL	17 X 13	432 X 330	12	3.00	76	4	0	0
F-201610N4-AL	20.00 X 16.00 X 10.00	508 X 406 X 254	16	E-2016P	F-2016PN4-AL	17 X 13	432 X 330	12	3.00	76	7	0	0
F-202006N4-AL	20.00 X 20.00 X 6.00	508 X 508 X 152	16	E-2020P	F-2020PN4-AL	17 X 17	432 X 432	12	3.00	76	9	0	0
F-242006N4-AL	24.00 X 20.00 X 6.00	610 X 508 X 152	18	E-2420P	F-2420PN4-AL	21 X 17	533 X 432	12	3.00	76	9	0	0
F-242010N4-AL	24.00 X 20.00 X 10.00	610 X 508 X 254	22	E-2420P	F-2420PN4-AL	21 X 17	533 X 432	12	3.00	76	9	0	0
F-242408N4-AL	24.00 X 24.00 X 8.00	610 X 610 X 203	22	E-2424P	F-2424PN4-AL	21 X 21	533 X 533	12	3.00	76	9	0	0
F-302408N4-AL	30.00 X 24.00 X 8.00	762 X 610 X 203	26	E-3024P	F-3024PN4-AL	27 X 21	686 X 533	12	3.00	76	10	0	0
F-302412N4-AL	30.00 X 24.00 X 12.00	762 X 610 X 305	32	E-3024P	F-3024PN4-AL	27 X 21	686 X 533	12	3.00	76	10	0	0
F-303008N4-AL	30.00 X 30.00 X 8.00	762 X 762 X 203	29	E-3030P	F-3030PN4-AL	27 X 27	686 X 686	12	3.00	76	12	0	0
F-362408N4-AL	36.00 X 24.00 X 8.00	914 X 610 X 203	29	E-3624P	F-3624PN4-AL	33 X 21	838 X 533	12	3.00	76	10	0	0
F-362412N4-AL	36.00 X 24.00 X 12.00	914 X 610 X 305	33	E-3624P	F-3624PN4-AL	33 X 21	838 X 533	12	3.00	76	10	0	0
F-363008N4-AL	36.00 X 30.00 X 8.00	914 X 762 X 203	38	E-3630P	F-3630PN4-AL	33 X 27	838 X 686	12	3.00	76	12	0	1
F-363012N4-AL	36.00 X 30.00 X 12.00	914 X 762 X 305	44	E-3630P	F-3630PN4-AL	33 X 27	838 X 686	12	3.00	76	12	0	1
F-483608N4-AL	48.00 X 36.00 X 8.00	1219 X 914 X 203	56	E-4836P	F-4836PN4-AL	45 X 33	1143 X 838	12	3.00	76	13	1	1
F-603612N4-AL	60.00 X 36.00 X 12.00	1524 X 914 X 305	76	E-6036P	F-6036PN4-AL	57 X 33	1448 X 838	12	3.00	76	15	1	1

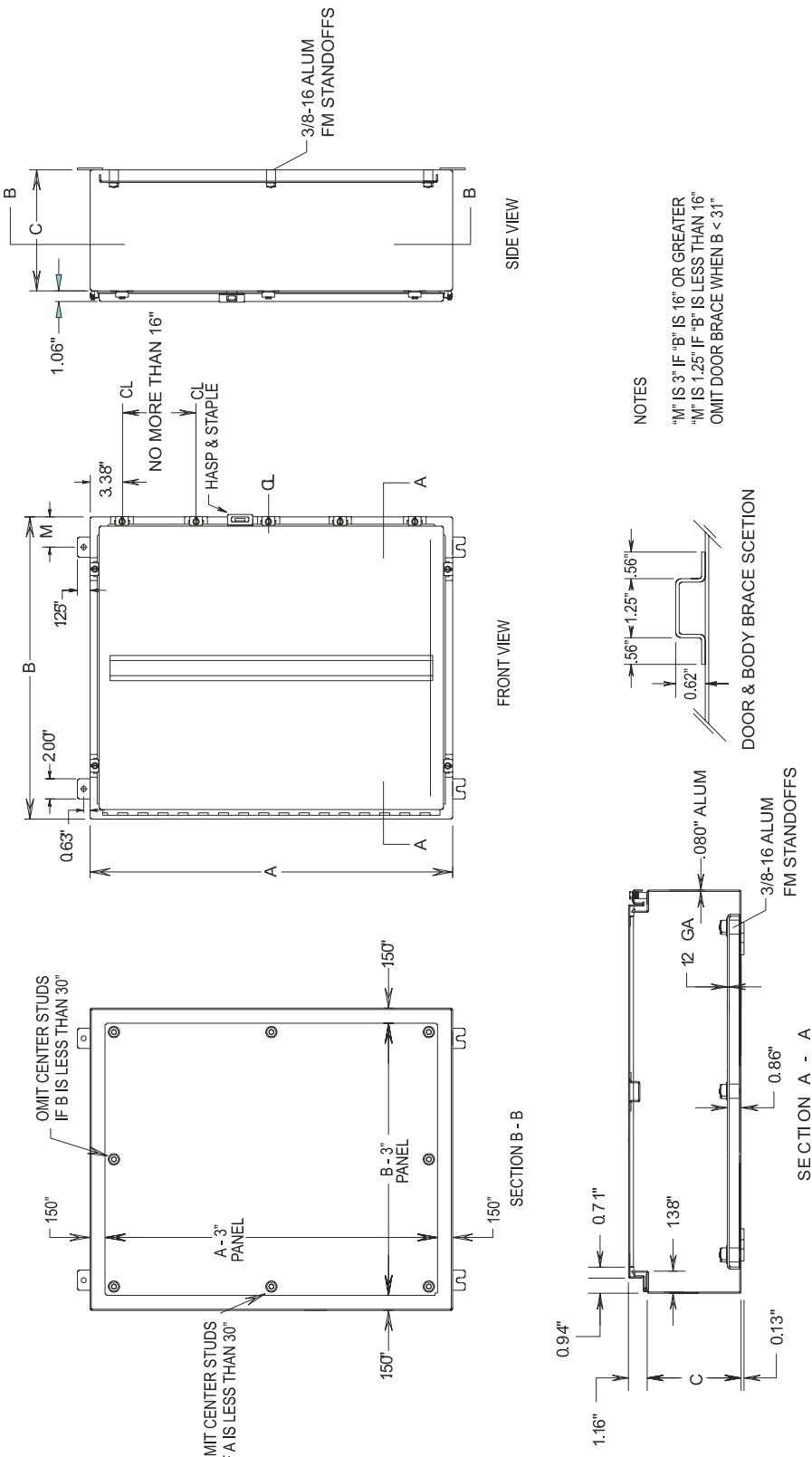
Any custom size at any quantity is available for this enclosure model.



"A" dimension is hinged side.

NEMA 4 and 4X Single-Door Wallmount Enclosures

NEMA 4 Single-Door Aluminum Wallmount Enclosures



"A" dimension is hinged side.

NEMA 4 and 4X Two-Door Floormount Enclosures



Application

EMF NEMA 4 two-door enclosures are designed to house electrical and electronic controls, instruments, pneumatic components, drive systems, and other components in areas that are hosed down regularly, where splashing water exists, and for protection against falling rain. They are suitable for use outdoors, on docks, ship decks, dairies, breweries, packing houses, chemical plants, water treatment facilities, sewage plants, and related installations. NEMA 4X version provides additional corrosion resistance.

Construction

- 12 gauge steel or stainless steel
- Continuously welded seams
- Oil-resistant gasket
- Gasket retainer on steel enclosures only
- Stainless exterior hardware
- Stainless hinge pin
- Stainless hinge on SS enclosures
- 12" legs standard
- Hasp & staple
- Collar studs for mounting panel
- Lifting eyes
- Removable center post
- UL listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces. Brushed and blended No.3 finish on SS enclosures.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Swing out panels
- Print pockets
- NEMA 4 or 4X climate controls

Modifications

- Aluminum
- Knockouts
- Galvanized Steel
- Cutouts
- Odd sizes
- Special latches
- Special paint
- Louvers
- Different leg sizes

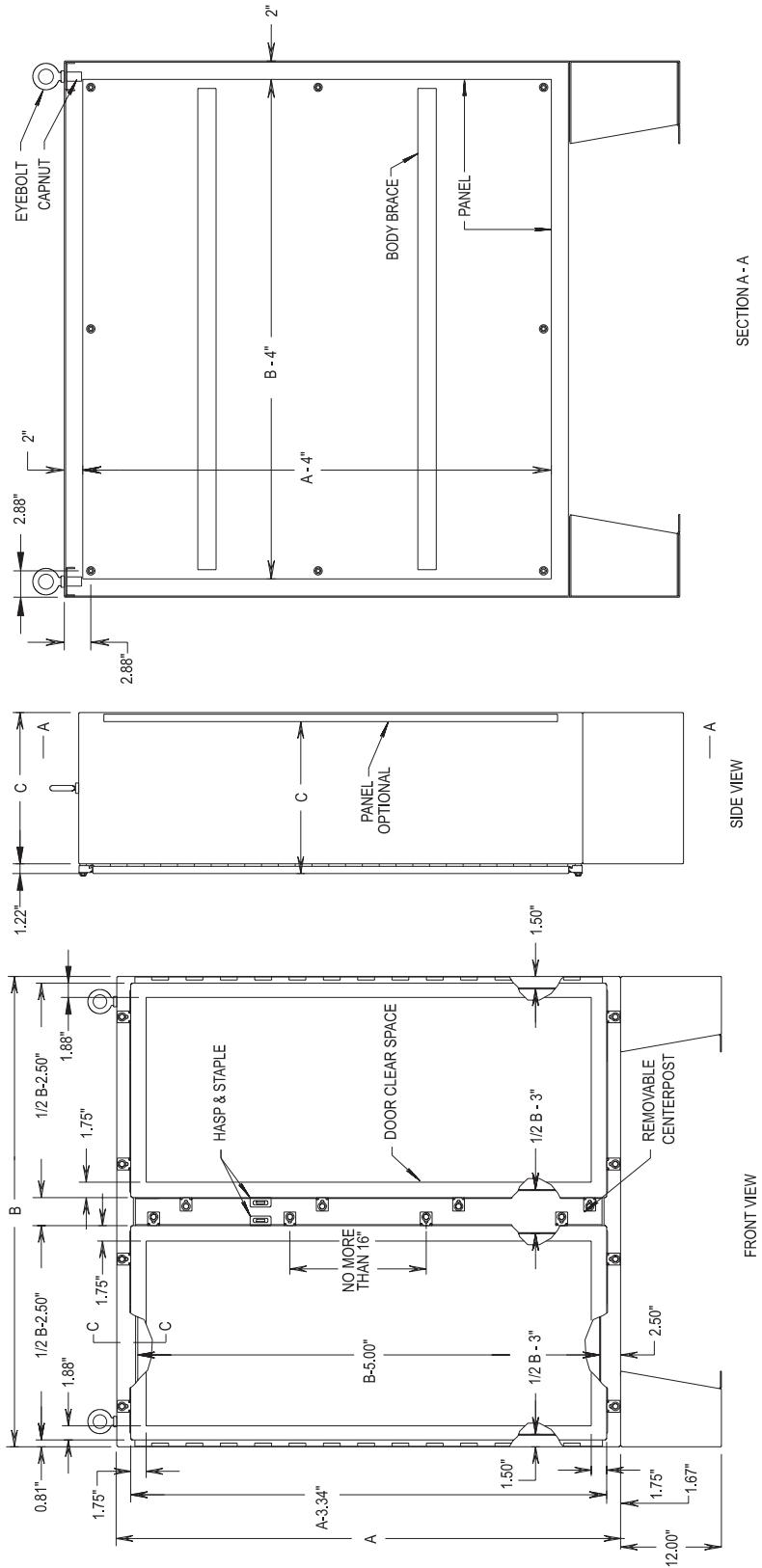
Enclosure Catalog Number	304 SS Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	QTY	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door Clamps	Eye Bolts
F-624810	F-624810N4FXSS	62.06 X 48.06 X 10.06	1576 x 1221 x 256	356	E-6048P	56.00 X 44.00	1422 X 1118	10	16	2
F-624812	F-624812N4FXSS	62.06 X 48.06 X 12.06	1576 x 1221 x 306	369	E-6048P	56.00 X 44.00	1422 X 1118	10	16	2
F-624816	F-624816N4FXSS	62.06 X 48.06 X 16.06	1576 x 1221 x 408	396	E-6048P	56.00 X 44.00	1422 X 1118	10	16	2
F-624820	F-624820N4FXSS	62.06 X 48.06 X 20.06	1576 x 1221 x 510	423	E-6048P	56.00 X 44.00	1422 X 1118	10	16	2
F-624824	F-624824N4FXSS	62.06 X 48.06 X 24.06	1576 x 1221 x 611	450	E-6048P	56.00 X 44.00	1422 X 1118	10	16	4
F-626010	F-626010N4FXSS	62.06 X 60.06 X 10.06	1576 x 1526 x 256	409	E-6060P	56.00 X 56.00	1422 X 1422	10	16	2
F-626012	F-626012N4FXSS	62.06 X 60.06 X 12.06	1576 x 1526 x 306	423	E-6060P	56.00 X 56.00	1422 X 1422	10	16	2
F-626016	F-626016N4FXSS	62.06 X 60.06 X 16.06	1576 x 1526 x 408	453	E-6060P	56.00 X 56.00	1422 X 1422	10	16	2
F-626020	F-626020N4FXSS	62.06 X 60.06 X 20.06	1576 x 1526 x 510	483	E-6060P	56.00 X 56.00	1422 X 1422	10	16	2
F-626024	F-626024N4FXSS	62.06 X 60.06 X 24.06	1576 x 1526 x 611	513	E-6060P	56.00 X 56.00	1422 X 1422	10	16	4
F-744810	F-744810N4FXSS	74.06 X 48.06 X 10.06	1881 x 1221 x 256	398	E-7248P	68.00 X 44.00	1727 X 1118	10	18	2
F-744812	F-744812N4FXSS	74.06 X 48.06 X 12.06	1881 x 1221 x 306	413	E-7248P	68.00 X 44.00	1727 X 1118	10	18	2
F-744816	F-744816N4FXSS	74.06 X 48.06 X 16.06	1881 x 1221 x 408	443	E-7248P	68.00 X 44.00	1727 X 1118	10	18	2
F-744820	F-744820N4FXSS	74.06 X 48.06 X 20.06	1881 x 1221 x 510	473	E-7248P	68.00 X 44.00	1727 X 1118	10	18	2
F-744824	F-744824N4FXSS	74.06 X 48.06 X 24.06	1881 x 1221 x 611	503	E-7248P	68.00 X 44.00	1727 X 1118	10	18	4
F-746010	F-746010N4FXSS	74.06 X 60.06 X 10.06	1881 x 1526 x 256	460	E-7260P	68.00 X 56.00	1727 X 1422	10	18	2
F-746012	F-746012N4FXSS	74.06 X 60.06 X 12.06	1881 x 1526 x 306	476	E-7260P	68.00 X 56.00	1727 X 1422	10	18	2
F-746016	F-746016N4FXSS	74.06 X 60.06 X 16.06	1881 x 1526 x 408	508	E-7260P	68.00 X 56.00	1727 X 1422	10	18	2
F-746020	F-746020N4FXSS	74.06 X 60.06 X 20.06	1881 x 1526 x 510	540	E-7260P	68.00 X 56.00	1727 X 1422	10	18	2
F-746024	F-746024N4FXSS	74.06 X 60.06 X 24.06	1881 x 1526 x 611	572	E-7260P	68.00 X 56.00	1727 X 1422	10	18	4
F-747210	F-747210N4FXSS	74.06 X 72.06 X 10.06	1881 x 1830 x 256	521	E-7272P	68.00 X 68.00	1727 X 1727	10	18	2
F-747212	F-747212N4FXSS	74.06 X 72.06 X 12.06	1881 x 1830 x 306	539	E-7272P	68.00 X 68.00	1727 X 1727	10	18	2
F-747216	F-747216N4FXSS	74.06 X 72.06 X 16.06	1881 x 1830 x 408	575	E-7272P	68.00 X 68.00	1727 X 1727	10	18	2
F-747220	F-747220N4FXSS	74.06 X 72.06 X 20.06	1881 x 1830 x 510	611	E-7272P	68.00 X 68.00	1727 X 1727	10	18	2
F-747224	F-747224N4FXSS	74.06 X 72.06 X 24.06	1881 x 1830 x 611	647	E-7272P	68.00 X 68.00	1727 X 1727	10	18	4

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 4 and 4X Two-Door Floormount Enclosures

NEMA 4 Two-Door Floormount Enclosures



"A" dimension is hinged side.



Application

EMF NEMA 4 two-door wallmounted enclosures are designed to house electrical and electronic controls, instruments, pneumatic components, drive systems, and other components in areas that are hosed down regularly, where splashing water exists, and for protection against falling rain. They are suitable for use outdoors, on docks, ship decks, dairies, breweries, packing houses, chemical plants, water treatment facilities, sewage plants, and related installations. NEMA 4X version provides additional corrosion resistance.

Construction

- 14 gauge steel or 304 stainless steel construction
- Continuously welded seams
- Rolled lip
- Stainless exterior hardware
- External mounting feet
- Stainless steel door clamps on all three sides provide watertight seal
- Stiffeners provided on larger enclosures
- Oil-resistant gasket
- Gasket retainers provided on steel enclosures only
- Holes provided on flange for mounting handle mechanism
- Bracket welded to door
- Collar studs for mounting panels

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces. No. 3 brushed & blended finish for stainless steel enclosures.

Accessories

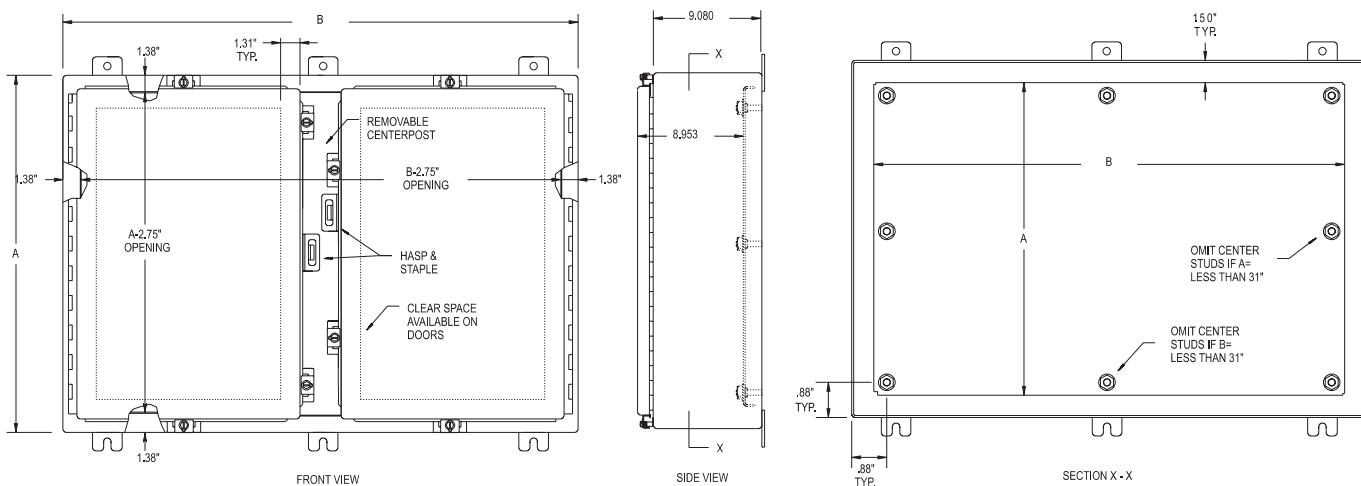
See General Accessories Index page 151.

- Panels
- Window kits
- Drip shield kits
- Floor stand kits
- Print pockets

Modifications

- Holes
- Hubs
- Cutouts
- Knockouts
- Special cutout locations
- Special paints
- Aluminum, Galvanized steel

NEMA 4 Two-Door Wallmount Enclosures



"A" dimension is hinged side.

NEMA 4 and 4X Two-Door Wallmount Enclosures

NEMA 4 Two-Door Wallmount Enclosures

Steel Enclosure Catalog Number	304 Stainless Steel Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Guage	Y" Dimension	Stiffners	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			Door	Body
F-244208N4-TDW	F-244208N4XSS-TDW	24.00 X 42.00 X 8.00	610 X 1067 X 203	89	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
F-244210N4-TDW	F-244210N4XSS-TDW	24.00 X 42.00 X 10.00	610 X 1067 X 254	96	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
F-244212N4-TDW	F-244212N4XSS-TDW	24.00 X 42.00 X 12.00	610 X 1067 X 305	102	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
F-244216N4-TDW	F-244216N4XSS-TDW	24.00 X 42.00 X 16.00	610 X 1067 X 406	113	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
F-244808N4-TDW	F-244808N4XSS-TDW	24.00 X 48.00 X 8.00	610 X 1219 X 203	98	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
F-244810N4-TDW	F-244810N4XSS-TDW	24.00 X 48.00 X 10.00	610 X 1219 X 254	105	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
F-244812N4-TDW	F-244812N4XSS-TDW	24.00 X 48.00 X 12.00	610 X 1219 X 305	111	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
F-244816N4-TDW	F-244816N4XSS-TDW	24.00 X 48.00 X 16.00	610 X 1219 X 406	123	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
F-304208N4-TDW	F-304208N4XSS-TDW	30.00 X 42.00 X 8.00	762 X 1067 X 203	111	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	1
F-304210N4-TDW	F-304210N4XSS-TDW	30.00 X 42.00 X 10.00	762 X 1067 X 254	117	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	1
F-304212N4-TDW	F-304212N4XSS-TDW	30.00 X 42.00 X 12.00	762 X 1067 X 305	123	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	1
F-304216N4-TDW	F-304216N4XSS-TDW	30.00 X 42.00 X 16.00	762 X 1067 X 406	136	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	1
F-304808N4-TDW	F-304808N4XSS-TDW	30.00 X 48.00 X 8.00	762 X 1219 X 203	121	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	1
F-304810N4-TDW	F-304810N4XSS-TDW	30.00 X 48.00 X 10.00	762 X 1219 X 254	128	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	1
F-304812N4-TDW	F-304812N4XSS-TDW	30.00 X 48.00 X 12.00	762 X 1219 X 305	135	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	1
F-304816N4-TDW	F-304816N4XSS-TDW	30.00 X 48.00 X 16.00	762 X 1219 X 406	149	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	1
F-306008N4-TDW	F-306008N4XSS-TDW	30.00 X 60.00 X 8.00	762 X 1524 X 254	144	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	1
F-306010N4-TDW	F-306010N4XSS-TDW	30.00 X 60.00 X 10.00	762 X 1524 X 254	152	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	1
F-306012N4-TDW	F-306012N4XSS-TDW	30.00 X 60.00 X 12.00	762 X 1524 X 305	159	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	1
F-306016N4-TDW	F-306016N4XSS-TDW	30.00 X 60.00 X 16.00	762 X 1524 X 406	175	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	1
F-363608N4-TDW	F-363608N4XSS-TDW	36.00 X 36.00 X 8.00	914 X 914 X 203	113	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	1
F-363610N4-TDW	F-363610N4XSS-TDW	36.00 X 36.00 X 10.00	914 X 914 X 254	120	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	1
F-363612N4-TDW	F-363612N4XSS-TDW	36.00 X 36.00 X 12.00	914 X 914 X 305	126	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	1
F-363616N4-TDW	F-363616N4XSS-TDW	36.00 X 36.00 X 16.00	914 X 914 X 406	139	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	1
F-364208N4-TDW	F-364208N4XSS-TDW	36.00 X 42.00 X 8.00	914 X 1067 X 203	124	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	1
F-364210N4-TDW	F-364210N4XSS-TDW	36.00 X 42.00 X 10.00	914 X 1067 X 254	131	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	1
F-364212N4-TDW	F-364212N4XSS-TDW	36.00 X 42.00 X 12.00	914 X 1067 X 305	138	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	1
F-364216N4-TDW	F-364216N4XSS-TDW	36.00 X 42.00 X 16.00	914 X 1067 X 406	151	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	1
F-364808N4-TDW	F-364808N4XSS-TDW	36.00 X 48.00 X 8.00	914 X 1219 X 203	179	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	1
F-364810N4-TDW	F-364810N4XSS-TDW	36.00 X 48.00 X 10.00	914 X 1219 X 254	186	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	1
F-364812N4-TDW	F-364812N4XSS-TDW	36.00 X 48.00 X 12.00	914 X 1219 X 305	193	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	1
F-364816N4-TDW	F-364816N4XSS-TDW	36.00 X 48.00 X 16.00	914 X 1219 X 406	208	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	1
F-366008N4-TDW	F-366008N4XSS-TDW	36.00 X 60.00 X 8.00	914 X 1524 X 203	215	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	1
F-366010N4-TDW	F-366010N4XSS-TDW	36.00 X 60.00 X 10.00	914 X 1524 X 254	223	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	1
F-366012N4-TDW	F-366012N4XSS-TDW	36.00 X 60.00 X 12.00	914 X 1524 X 305	231	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	1
F-366016N4-TDW	F-366016N4XSS-TDW	36.00 X 60.00 X 16.00	914 X 1524 X 406	248	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	1
F-424208N4-TDW	F-424208N4XSS-TDW	42.00 X 42.00 X 8.00	1067 X 1067 X 203	202	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	3
F-424210N4-TDW	F-424210N4XSS-TDW	42.00 X 42.00 X 10.00	1067 X 1067 X 254	210	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	3
F-424212N4-TDW	F-424212N4XSS-TDW	42.00 X 42.00 X 12.00	1067 X 1067 X 305	218	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	3
F-424216N4-TDW	F-424216N4XSS-TDW	42.00 X 42.00 X 16.00	1067 X 1067 X 406	232	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	3
F-424808N4-TDW	F-424808N4XSS-TDW	42.00 X 48.00 X 8.00	1067 X 1219 X 203	216	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	3
F-424810N4-TDW	F-424810N4XSS-TDW	42.00 X 48.00 X 10.00	1067 X 1219 X 254	224	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	3
F-424812N4-TDW	F-424812N4XSS-TDW	42.00 X 48.00 X 12.00	1067 X 1219 X 305	232	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	3
F-424816N4-TDW	F-424816N4XSS-TDW	42.00 X 48.00 X 16.00	1067 X 1219 X 406	247	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	3
F-426008N4-TDW	F-426008N4XSS-TDW	42.00 X 60.00 X 8.00	1067 X 1524 X 203	242	E-6042P	56.00 X 38.00	1422 X 965	10	2.00	0	3
F-426010N4-TDW	F-426010N4XSS-TDW	42.00 X 60.00 X 10.00	1067 X 1524 X 254	251	E-6042P	56.00 X 38.00	1422 X 965	10	2.00	2	3
F-426012N4-TDW	F-426012N4XSS-TDW	42.00 X 60.00 X 12.00	1067 X 1524 X 305	260	E-6042P	56.00 X 38.00	1422 X 965	10	2.00	2	3
F-426016N4-TDW	F-426016N4XSS-TDW	42.00 X 60.00 X 16.00	1067 X 1524 X 406	278	E-6042P	56.00 X 38.00	1422 X 965	10	2.00	2	3
F-424808N4-TDW	F-424808N4XSS-TDW	48.00 X 48.00 X 8.00	1219 X 1219 X 203	208	E-4848P	44.00 X 44.00	1118 X 1118	10	2.00	0	0
F-424810N4-TDW	F-424810N4XSS-TDW	48.00 X 48.00 X 10.00	1219 X 1219 X 254	216	E-4848P	44.00 X 44.00	1118 X 1118	10	2.00	0	0
F-424812N4-TDW	F-424812N4XSS-TDW	48.00 X 48.00 X 12.00	1219 X 1219 X 305	224	E-4848P	44.00 X 44.00	1118 X 1118	10	2.00	0	0
F-424816N4-TDW	F-424816N4XSS-TDW	48.00 X 48.00 X 16.00	1219 X 1219 X 406	241	E-4848P	44.00 X 44.00	1118 X 1118	10	2.00	0	0
F-426012N4-TDW	F-426012N4XSS-TDW	48.00 X 60.00 X 12.00	1219 X 1524 X 305	256	E-6048P	56.00 X 44.00	1422 X 1118	10	2.00	0	0
F-426016N4-TDW	F-426016N4XSS-TDW	48.00 X 60.00 X 16.00	1219 X 1524 X 406	274	E-6048P	56.00 X 44.00	1422 X 1118	10	2.00	0	0

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.



Application

EMF NEMA 4 disconnect enclosures are designed to house Square D Class 9422 variable depth operating mechanisms and Allen-Bradley 1494V variable depth mechanisms while maintaining NEMA 4 and NEMA 4X protection requirements.

Construction

- 14 gauge steel or 304 stainless steel construction
- Continuously welded seams
- Rolled lip
- Stainless exterior hardware
- External mounting feet
- Stainless steel door clamps on all three sides provide watertight seal
- Stiffeners provided on larger enclosures
- Oil-resistant gasket
- Gasket retainers provided on steel enclosures only
- Holes provided on flange for mounting handle mechanism
- Bracket welded to door
- Collar studs for mounting panels

Finish

ANSI 61 grey polyester powder coat in and out over phosphated surfaces. No. 3 brushed & blended finish for stainless steel enclosures.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Drip shield kits
- Floor stand kits
- Print pockets

Modifications

- Holes
- Hubs
- Cutouts
- Knockouts
- Special cutout locations
- Special paints
- Aluminum, Galvanized steel

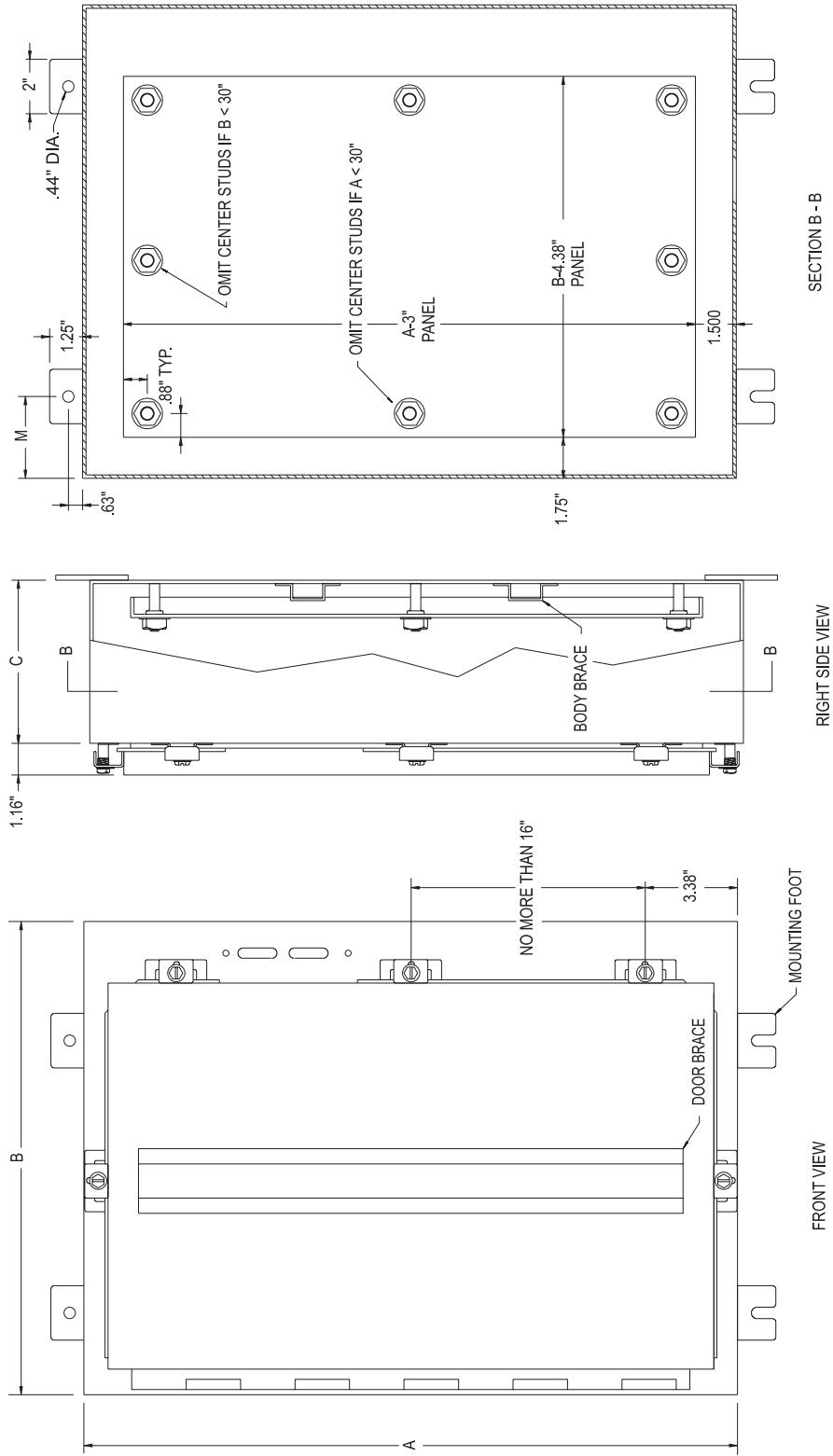
NEMA 4 Single-Door Painted Wallmount Disconnect Enclosures

Steel Enclosure Catalog Number	304 SS Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Qty Door Clamps	Stiffeners	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			Door	Body
F-202108N4DC	F-202108N4XSSDC	20.00 x 21.38 x 8.00	508 x 543 x 203	42	E-2020P	17 X 17	432 X 432	12	5	0	0
F-202110N4DC	F-202110N4XSSDC	20.00 x 21.38 x 10.00	508 x 543 x 254	46	E-2020P	17 X 17	432 X 432	12	5	0	0
F-242108N4DC	F-242108N4XSSDC	24.00 x 21.38 x 8.00	610 x 543 x 203	48	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242110N4DC	F-242110N4XSSDC	24.00 x 21.38 x 10.00	610 x 543 x 254	53	E-2420P	21 X 17	533 X 432	12	5	0	0
F-242508N4DC	F-242508N4XSSDC	24.00 x 25.38 x 8.00	610 x 645 x 203	54	E-2424P	21 X 21	533 X 533	12	5	0	0
F-242510N4DC	F-242510N4XSSDC	24.00 x 25.38 x 10.00	610 x 645 x 254	60	E-2424P	21 X 21	533 X 533	12	5	0	0
F-302108N4DC	F-302108N4XSSDC	30.00 x 21.38 x 8.00	762 x 543 x 203	58	E-3020P	27 X 17	686 X 432	12	5	0	0
F-302110N4DC	F-302110N4XSSDC	30.00 x 21.38 x 10.00	762 x 543 x 254	63	E-3020P	27 X 17	686 X 432	12	5	0	0
F-302508N4DC	F-302508N4XSSDC	30.00 x 25.38 x 8.00	762 x 645 x 203	65	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302510N4DC	F-302510N4XSSDC	30.00 x 25.38 x 10.00	762 x 645 x 254	71	E-3024P	27 X 21	686 X 533	12	5	0	0
F-302512N4DC	F-302512N4XSSDC	30.00 x 25.38 x 12.00	762 x 645 x 305	76	E-3024P	27 X 21	686 X 533	12	5	0	0
F-362508N4DC	F-362508N4XSSDC	36.00 x 25.38 x 8.00	914 x 645 x 203	76	E-3624P	33 X 21	838 X 533	12	5	0	0
F-362510N4DC	F-362510N4XSSDC	36.00 x 25.38 x 10.00	914 x 645 x 254	82	E-3624P	33 X 21	838 X 533	12	5	0	0
F-363108N4DC	F-363108N4XSSDC	36.00 x 31.38 x 8.00	914 x 797 x 203	93	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363110N4DC	F-363110N4XSSDC	36.00 x 31.38 x 10.00	914 x 797 x 254	100	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363112N4DC	F-363112N4XSSDC	36.00 x 31.38 x 12.00	914 x 797 x 305	106	E-3630P	33 X 27	838 X 686	12	7	0	1
F-363116N4DC	F-363116N4XSSDC	36.00 x 31.38 x 16.00	914 x 797 x 406	117	E-3630P	33 X 27	838 X 686	12	7	0	1
F-423108N4DC	F-423108N4XSSDC	42.00 x 31.38 x 8.00	1067 x 797 x 203	105	E-4230P	39 X 27	991 X 686	12	10	0	1
F-423110N4DC	F-423110N4XSSDC	42.00 x 31.38 x 10.00	1067 x 797 x 254	112	E-4230P	39 X 27	991 X 686	12	10	0	1
F-423112N4DC	F-423112N4XSSDC	42.00 x 31.38 x 12.00	1067 x 797 x 305	125	E-4230P	39 X 27	991 X 686	12	10	0	1
F-423708N4DC	F-423708N4XSSDC	42.00 x 37.38 x 8.00	1067 x 949 x 203	123	E-4236P	39 X 33	991 X 838	12	10	1	1
F-423710N4DC	F-423710N4XSSDC	42.00 x 37.38 x 10.00	1067 x 949 x 254	132	E-4236P	39 X 33	991 X 838	12	10	1	1
F-423712N4DC	F-423712N4XSSDC	42.00 x 37.38 x 12.00	1067 x 949 x 305	138	E-4236P	39 X 33	991 X 838	12	10	1	1
F-483708N4DC	F-483708N4XSSDC	48.00 x 37.38 x 8.00	1219 x 949 x 203	137	E-4836P	45 X 33	1143 X 838	12	10	1	1
F-483710N4DC	F-483710N4XSSDC	48.00 x 37.38 x 10.00	1219 x 949 x 254	146	E-4836P	45 X 33	1143 X 838	12	10	1	1
F-483712N4DC	F-483712N4XSSDC	48.00 x 37.38 x 12.00	1219 x 949 x 305	153	E-4836P	45 X 33	1143 X 838	12	10	1	1
F-483716N4DC	F-483716N4XSSDC	48.00 x 37.38 x 16.00	1219 x 949 x 406	168	E-4836P	45 X 33	1143 X 838	12	10	1	1
F-603708N4DC	F-603708N4XSSDC	60.00 x 37.38 x 8.00	1524 x 949 x 203	165	E-6036P	57 X 33	1448 X 838	12	11	1	1
F-603710N4DC	F-603710N4XSSDC	60.00 x 37.38 x 10.00	1524 x 949 x 254	175	E-6036P	57 X 33	1448 X 838	12	11	1	1
F-603712N4DC	F-603712N4XSSDC	60.00 x 37.38 x 12.00	1524 x 949 x 305	183	E-6036P	57 X 33	1448 X 838	12	11	1	1
F-603716N4DC	F-603716N4XSSDC	60.00 x 37.38 x 16.00	1524 x 949 x 406	200	E-6036P	57 X 33	1448 X 838	12	11	1	1

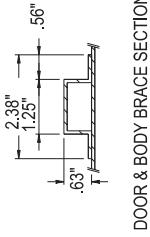
Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 4 Single-Door Painted Wallmount Disconnect Enclosures



"W" IS 3" WHEN "B" IS 16" OR MORE
 "W" IS 3" WHEN "B" IS 16" OR MORE
 "W" IS 1.25" WHEN "B" IS LESS THAN 16"
 OMIT BODY BRACE WHEN A & B < 30"
 OMIT DOOR BRACE WHEN B < 32" EXCEPT
 WHEN A X B IS 42" X 31.38"

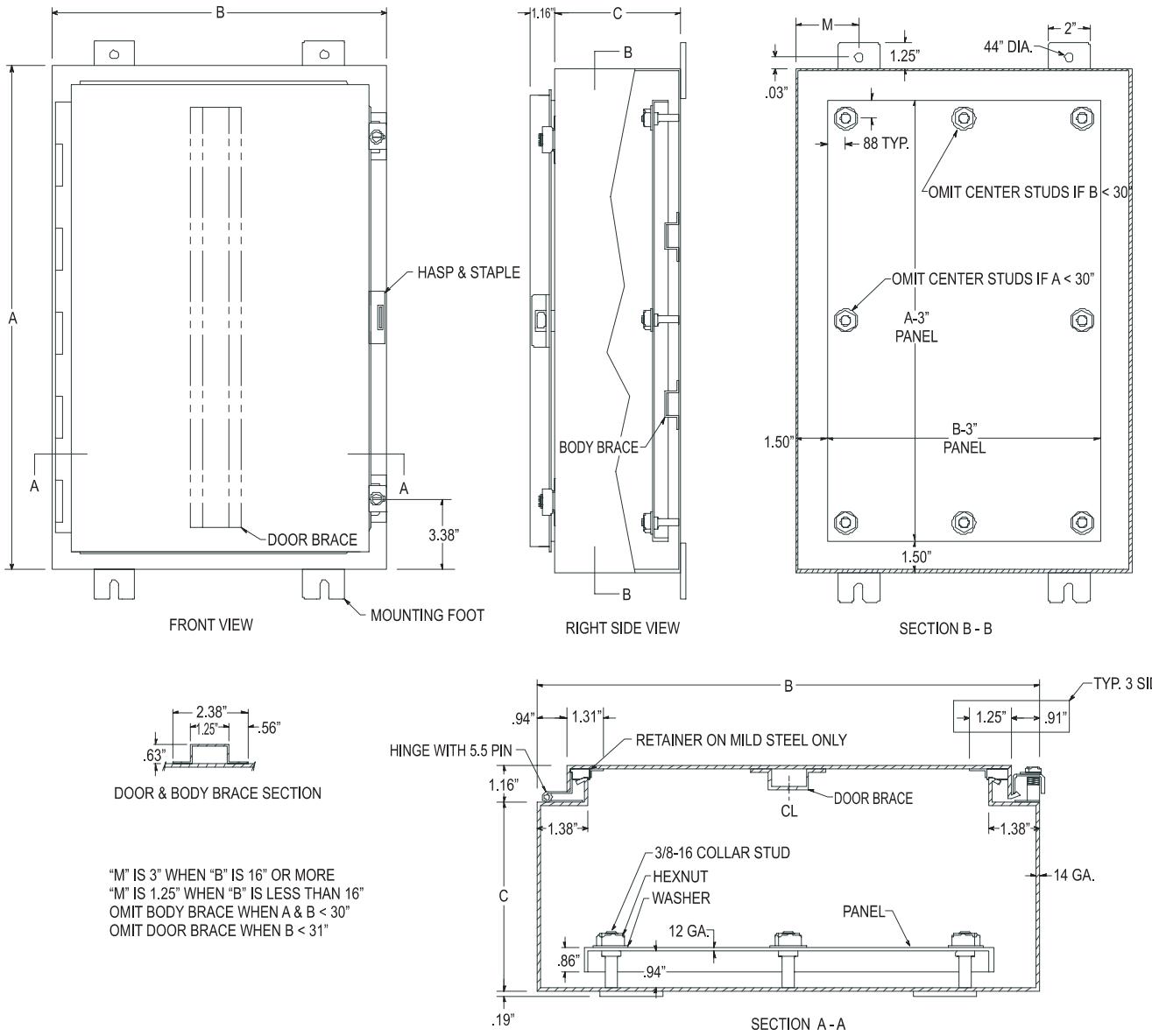


"A" dimension is hinged side.

NEMA 12 Single-Door Wallmount Enclosures



NEMA 12 Standard Single-Door Wallmount Enclosure



Application

EMF Single door NEMA 12 enclosures are used to house electrical terminals, instruments, controls, pneumatic components, drives and other related devices.

Construction

- 14 gauge steel or 304 stainless steel
- Rolled lip
- Collar studs
- External mounting feet
- Continuously welded seams
- Oil-resistant gasket
- Gasket retainer
- Continuous hinge
- Stainless hinge on SS enclosures
- External screw clamps
- Stainless hinge pin
- UL Listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces. Brushed and blended No. 3 finish on SS enclosures. Larger enclosures have stiffeners on body & door.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Floor stand kits
- Print pockets

Modifications

- Aluminum
- Galvanized Steel
- Special paint
- Knockouts
- Cutouts
- Louvers

NEMA 12 Single-Door Wallmount Enclosures

Enclosure Catalog Number		Enclosure Size		Body Guage	Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		M" Dimension		Qty Door Clamps	Stiffners		
									Panel Gauge	INCH	MM	Door	Body	
Mild Steel Type	304 SS Type	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)						
E-122406	E-122406SSN12	12.00 X 24.00 X 6.00	305 X 610 X 152	16	29	E-2412P	21 X 9	533 X 229	12	3.00	76	2	0	0
E-122408	E-122408SSN12	12.00 X 24.00 X 8.00	305 X 610 X 203	16	32	E-2412P	21 X 9	533 X 229	12	3.00	76	2	0	0
E-161206	E-161206SSN12	16.00 X 12.00 X 6.00	406 X 305 X 152	16	22	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
E-161208	E-161208SSN12	16.00 X 12.00 X 8.00	406 X 305 X 203	16	24	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
E-161210	E-161210SSN12	16.00 X 12.00 X 10.00	406 X 305 X 203	14	27	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
E-161606	E-161606SSN12	16.00 X 16.00 X 6.00	406 X 406 X 152	16	27	E-1616P	13 X 13	330 X 330	12	3.00	76	2	0	0
E-161608	E-161608SSN12	16.00 X 16.00 X 8.00	406 X 406 X 203	16	31	E-1616P	13 X 13	330 X 330	12	3.00	76	2	0	0
E-162006	E-162006SSN12	16.00 X 20.00 X 6.00	406 X 508 X 152	16	31	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-162008	E-162008SSN12	16.00 X 20.00 X 8.00	406 X 508 X 203	16	34	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-201206	E-201206SSN12	20.00 X 12.00 X 6.00	508 X 305 X 152	16	26	E-2012P	17 X 9	432 X 229	12	1.25	32	2	0	0
E-201208	E-201208SSN12	20.00 X 12.00 X 8.00	508 X 305 X 203	16	28	E-2012P	17 X 9	432 X 229	12	1.25	32	2	0	0
E-201606	E-201606SSN12	20.00 X 16.00 X 6.00	508 X 406 X 152	16	31	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-201608	E-201608SSN12	20.00 X 16.00 X 8.00	508 X 406 X 203	16	34	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-201610	E-201610SSN12	20.00 X 16.00 X 10.00	508 X 406 X 254	14	38	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-201612	E-201612SSN12	20.00 X 16.00 X 12.00	508 X 406 X 305	14	41	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
E-202006	E-202006SSN12	20.00 X 20.00 X 6.00	508 X 508 X 152	16	36	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
E-202008	E-202008SSN12	20.00 X 20.00 X 8.00	508 X 508 X 203	16	40	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
E-202010	E-202010SSN12	20.00 X 20.00 X 10.00	508 X 508 X 254	14	44	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
E-202406	E-202406SSN12	20.00 X 24.00 X 6.00	508 X 610 X 152	16	41	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-202408	E-202408SSN12	20.00 X 24.00 X 8.00	508 X 610 X 203	16	45	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-241206	E-241206SSN12	24.00 X 12.00 X 6.00	610 X 305 X 152	16	30	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
E-241208	E-241208SSN12	24.00 X 12.00 X 8.00	610 X 305 X 203	16	33	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
E-241210	E-241210SSN12	24.00 X 12.00 X 10.00	610 X 305 X 254	14	36	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
E-241606	E-241606SSN12	24.00 X 16.00 X 6.00	610 X 508 X 152	16	37	E-2416P	21 X 13	533 X 330	12	3.00	76	2	0	0
E-241608	E-241608SSN12	24.00 X 16.00 X 8.00	610 X 508 X 203	16	40	E-2416P	21 X 13	533 X 330	12	3.00	76	2	0	0
E-242006	E-242006SSN12	24.00 X 20.00 X 6.00	610 X 508 X 152	16	42	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-242008	E-242008SSN12	24.00 X 20.00 X 8.00	610 X 508 X 203	16	46	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-242010	E-242010SSN12	24.00 X 20.00 X 10.00	610 X 508 X 254	14	50	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-242012	E-242012SSN12	24.00 X 20.00 X 12.00	610 X 508 X 305	14	54	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-242016	E-242016SSN12	24.00 X 20.00 X 16.00	610 X 508 X 406	14	62	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
E-242406	E-242406SSN12	24.00 X 24.00 X 6.00	610 X 610 X 152	16	48	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242408	E-242408SSN12	24.00 X 24.00 X 8.00	610 X 610 X 203	16	52	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242410	E-242410SSN12	24.00 X 24.00 X 10.00	610 X 610 X 254	14	56	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242412	E-242412SSN12	24.00 X 24.00 X 12.00	610 X 610 X 305	14	61	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242416	E-242416SSN12	24.00 X 24.00 X 16.00	610 X 610 X 406	14	70	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242420	E-242420SSN12	24.00 X 24.00 X 20.00	610 X 610 X 508	14	79	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-242424	E-242424SSN12	24.00 X 24.00 X 24.00	610 X 610 X 610	14	87	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
E-243008	E-243008SSN12	24.00 X 30.00 X 8.00	610 X 762 X 203	14	62	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-301606	E-301606SSN12	30.00 X 16.00 X 6.00	762 X 508 X 152	14	41	E-3016P	27 X 13	686 X 330	12	3.00	76	2	0	0
E-302006	E-302006SSN12	30.00 X 20.00 X 6.00	762 X 508 X 152	14	51	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
E-302008	E-302008SSN12	30.00 X 20.00 X 8.00	762 X 508 X 203	14	55	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
E-302010	E-302010SSN12	30.00 X 20.00 X 10.00	762 X 508 X 254	14	60	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
E-302406	E-302406SSN12	30.00 X 24.00 X 6.00	762 X 610 X 152	14	58	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302408	E-302408SSN12	30.00 X 24.00 X 8.00	762 X 610 X 203	14	63	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302410	E-302410SSN12	30.00 X 24.00 X 10.00	762 X 610 X 254	14	68	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302412	E-302412SSN12	30.00 X 24.00 X 12.00	762 X 610 X 305	14	73	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302416	E-302416SSN12	30.00 X 24.00 X 16.00	762 X 610 X 406	14	82	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302420	E-302420SSN12	30.00 X 24.00 X 20.00	762 X 610 X 508	14	92	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-302424	E-302424SSN12	30.00 X 24.00 X 24.00	762 X 610 X 610	14	103	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
E-303008	E-303008SSN12	30.00 X 30.00 X 8.00	762 X 762 X 203	14	75	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303010	E-303010SSN12	30.00 X 30.00 X 10.00	762 X 762 X 254	14	80	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303012	E-303012SSN12	30.00 X 30.00 X 12.00	762 X 762 X 305	14	89	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303016	E-303016SSN12	30.00 X 30.00 X 16.00	762 X 762 X 406	14	99	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303020	E-303020SSN12	30.00 X 30.00 X 20.00	762 X 762 X 508	14	110	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303024	E-303024SSN12	30.00 X 30.00 X 24.00	762 X 762 X 610	14	120	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
E-303608	E-303608SSN12	30.00 X 36.00 X 8.00	762 X 914 X 203	14	89	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
E-362006	E-362006SSN12	36.00 X 20.00 X 6.00	914 X 508 X 152	14	59	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
E-362008	E-362008SSN12	36.00 X 20.00 X 8.00	914 X 508 X 203	14	64	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
E-362010	E-362010SSN12	36.00 X 20.00 X 10.00	914 X 508 X 254	14	69	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
E-362012	E-362012SSN12	36.00 X 20.00 X 12.00	914 X 508 X 305	14	741	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
E-362016	E-362016SSN12	36.00 X 20.00 X 16.00	914 X 508 X 406	14	84	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
E-362406	E-362406SSN12	36.00 X 24.00 X 6.00	914 X 610 X 152	14	67	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0
E-362408	E-362408SSN12	36.00 X 24.00 X 8.00	914 X 610 X 203	14	72	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0
E-362410	E-362410SSN12	36.00 X 24.00 X 10.00	914 X 610 X 254	14	78	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0</



NEMA 12 Single-Door Wallmount Enclosures

Enclosure Catalog Number		Enclosure Size		Body Gauge	Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	M" Dimension		Qty Door Clamps	Stiffners	
Mild Steel Type	304 SS Type	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)		INCH	MM		Door	Body
E-363012	E-363012SSN12	36.00 X 30.00 X 12.00	914 X 762 X 305	14	102	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
E-363016	E-363016SSN12	36.00 X 30.00 X 16.00	914 X 762 X 406	14	114	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
E-363020	E-363020SSN12	36.00 X 30.00 X 20.00	914 X 762 X 508	14	125	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
E-363606	E-363606SSN12	36.00 X 36.00 X 6.00	914 X 914 X 152	14	96	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363608	E-363608SSN12	36.00 X 36.00 X 8.00	914 X 914 X 203	14	102	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363610	E-363610SSN12	36.00 X 36.00 X 10.00	914 X 914 X 254	14	108	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363612	E-363612SSN12	36.00 X 36.00 X 12.00	914 X 914 X 305	14	117	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363616	E-363616SSN12	36.00 X 36.00 X 16.00	914 X 914 X 406	14	130	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363620	E-363620SSN12	36.00 X 36.00 X 20.00	914 X 914 X 508	14	143	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-363624	E-363624SSN12	36.00 X 36.00 X 24.00	914 X 914 X 610	14	156	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
E-422406	E-422406SSN12	42.00 X 24.00 X 6.00	1067 X 610 X 152	14	76	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
E-422408	E-422408SSN12	42.00 X 24.00 X 8.00	1067 X 610 X 203	14	82	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
E-422410	E-422410SSN12	42.00 X 24.00 X 10.00	1067 X 610 X 254	14	88	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
E-422412	E-422412SSN12	42.00 X 24.00 X 12.00	1067 X 610 X 305	14	94	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
E-422416	E-422416SSN12	42.00 X 24.00 X 16.00	1067 X 610 X 406	14	105	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
E-423008	E-423008SSN12	42.00 X 30.00 X 8.00	1067 X 762 X 203	14	102	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
E-423010	E-423010SSN12	42.00 X 30.00 X 10.00	1067 X 762 X 254	14	108	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
E-423012	E-423012SSN12	42.00 X 30.00 X 12.00	1067 X 762 X 305	14	114	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
E-423608	E-423608SSN12	42.00 X 36.00 X 8.00	1067 X 914 X 203	14	114	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
E-423610	E-423610SSN12	42.00 X 36.00 X 10.00	1067 X 914 X 254	14	126	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
E-423612	E-423612SSN12	42.00 X 36.00 X 12.00	1067 X 914 X 305	14	132	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
E-423616	E-423616SSN12	42.00 X 36.00 X 16.00	1067 X 914 X 406	14	147	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
E-482406	E-482406SSN12	48.00 X 24.00 X 6.00	1219 X 610 X 152	14	86	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-482408	E-482408SSN12	48.00 X 24.00 X 8.00	1219 X 610 X 203	14	92	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-482410	E-482410SSN12	48.00 X 24.00 X 10.00	1219 X 610 X 254	14	98	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-482412	E-482412SSN12	48.00 X 24.00 X 12.00	1219 X 610 X 305	14	104	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-482416	E-482416SSN12	48.00 X 24.00 X 16.00	1219 X 610 X 406	14	116	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-482420	E-482420SSN12	48.00 X 24.00 X 20.00	1219 X 610 X 508	14	129	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
E-483008	E-483008SSN12	48.00 X 30.00 X 8.00	1219 X 762 X 203	14	113	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
E-483010	E-483010SSN12	48.00 X 30.00 X 10.00	1219 X 762 X 254	14	120	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
E-483012	E-483012SSN12	48.00 X 30.00 X 12.00	1219 X 762 X 305	14	127	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
E-483016	E-483016SSN12	48.00 X 30.00 X 16.00	1219 X 762 X 406	14	140	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
E-483020	E-483020SSN12	48.00 X 30.00 X 20.00	1219 X 762 X 508	14	153	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
E-483608	E-483608SSN12	48.00 X 36.00 X 8.00	1219 X 914 X 203	14	133	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-483610	E-483610SSN12	48.00 X 36.00 X 10.00	1219 X 914 X 254	14	141	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-483612	E-483612SSN12	48.00 X 36.00 X 12.00	1219 X 914 X 305	14	148	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-483616	E-483616SSN12	48.00 X 36.00 X 16.00	1219 X 914 X 406	14	164	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-483620	E-483620SSN12	48.00 X 36.00 X 20.00	1219 X 914 X 508	14	178	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-483624	E-483624SSN12	48.00 X 36.00 X 24.00	1219 X 914 X 610	14	193	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
E-602408	E-602408SSN12	60.00 X 24.00 X 8.00	1524 X 610 X 203	14	124	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
E-602410	E-602410SSN12	60.00 X 24.00 X 10.00	1524 X 610 X 254	14	131	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
E-602412	E-602412SSN12	60.00 X 24.00 X 12.00	1524 X 610 X 305	14	139	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
E-602416	E-602416SSN12	60.00 X 24.00 X 16.00	1524 X 610 X 406	14	153	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
E-602420	E-602420SSN12	60.00 X 24.00 X 20.00	1524 X 610 X 508	14	168	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
E-603008	E-603008SSN12	60.00 X 30.00 X 8.00	1524 X 762 X 203	14	142	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
E-603010	E-603010SSN12	60.00 X 30.00 X 10.00	1524 X 762 X 254	14	150	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
E-603012	E-603012SSN12	60.00 X 30.00 X 12.00	1524 X 762 X 305	14	158	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
E-603016	E-603016SSN12	60.00 X 30.00 X 16.00	1524 X 762 X 406	14	174	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
E-603020	E-603020SSN12	60.00 X 30.00 X 20.00	1524 X 762 X 508	14	190	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
E-603608	E-603608SSN12	60.00 X 36.00 X 8.00	1524 X 914 X 203	14	160	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-603610	E-603610SSN12	60.00 X 36.00 X 10.00	1524 X 914 X 254	14	169	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-603612	E-603612SSN12	60.00 X 36.00 X 12.00	1524 X 914 X 305	14	178	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-603616	E-603616SSN12	60.00 X 36.00 X 16.00	1524 X 914 X 406	14	195	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-603620	E-603620SSN12	60.00 X 36.00 X 20.00	1524 X 914 X 508	14	211	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-603624	E-603624SSN12	60.00 X 36.00 X 24.00	1524 X 914 X 610	14	228	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
E-723012	E-723012SSN12	72.00 X 30.00 X 12.00	1829 X 762 X 305	14	177	E-7230P	69 X 27	1753 X 686	12	3.00	76	4	1	1
E-723016	E-723016SSN12	72.00 X 30.00 X 16.00	1829 X 762 X 406	14	198	E-7230P	69 X 27	1753 X 686	12	3.00	76	4	1	1
E-723020	E-723020SSN12	72.00 X 30.00 X 20.00	1829 X 762 X 508	14	215	E-7230P	69 X 27	1753 X 686	12	3.00	76	4	1	1
E-723024	E-723024SSN12	72.00 X 30.00 X 24.00	1829 X 762 X 610	14	234	E-7230P	69 X 27	1753 X 686	12	3.00	76	4	1	1
E-723612	E-723612SSN12	72.00 X 36.00 X 12.00	1829 X 914 X 305	14	229	E-7236P	69 X 33	1753 X 838	12	3.00	76	4	1	1

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 12 Two-Door Wallmount Enclosures



Application

EMF two-door NEMA 12 enclosures are designed to house electrical and electronic controls, terminals and instruments, and provide protection from dust, dirt, oil, and water.

Construction

- 12 gauge, 14 gauge steel
 - Continuously welded seams
 - Rolled lip
 - Oil-resistant gasket
 - Continuous hinge
 - External mounting feet
 - 3-pt. locking handle
 - Overlapping doors
 - Collar studs for mounting panel
 - Stiffeners provided for larger enclosures
 - UL listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

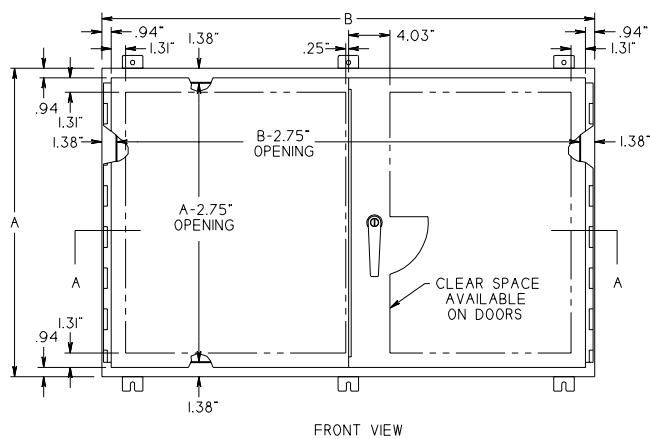
Accessories

See General Accessories Index page 151.

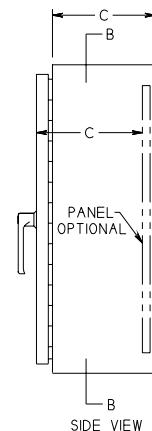
- Panels
 - Window kits
 - Swing out panels
 - Print pockets

Modifications

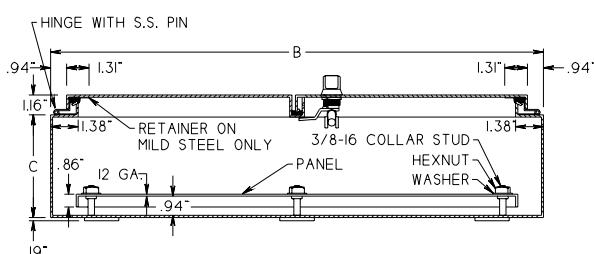
- Aluminum
 - Galvanized steel
 - Stainless steel
 - Special latches
 - Knockouts
 - Cutouts
 - Special paint
 - Louvers



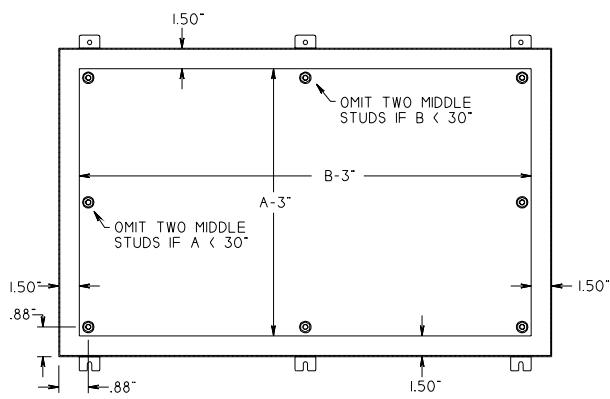
FRONT VIEW



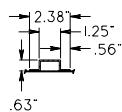
SIDE VIEW



SECTION A - A



SECTION B - B



BODY BRACE SECTION

"M" IS 3" WHEN "B" IS 16" OR MORE
"M" IS 1.25" WHEN "B" IS LESS THAN 16"
OMIT BODY BRACE WHEN A & B < 30"

"A" dimension is hinged side.

NEMA 12 Two-Door Wallmount Enclosures

Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	"Y" Dimension	Stiffners	
	A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			Door	Body
E-244208TDW	24.00 X 42.00 X 8.00	610 X 1067 X 203	89	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
E-244210TDW	24.00 X 42.00 X 10.00	610 X 1067 X 254	96	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
E-244212TDW	24.00 X 42.00 X 12.00	610 X 1067 X 305	102	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
E-244216TDW	24.00 X 42.00 X 16.00	610 X 1067 X 406	113	E-4224P	39.00 X 21.00	991 X 533	12	1.50	0	0
E-244808TDW	24.00 X 48.00 X 8.00	610 X 1219 X 203	98	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
E-244810TDW	24.00 X 48.00 X 10.00	610 X 1219 X 254	105	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
E-244812TDW	24.00 X 48.00 X 12.00	610 X 1219 X 305	111	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
E-244816TDW	24.00 X 48.00 X 16.00	610 X 1219 X 406	123	E-4824P	45.00 X 21.00	1143 X 533	12	1.50	0	0
E-304208TDW	30.00 X 42.00 X 8.00	762 X 1067 X 203	111	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	0
E-304210TDW	30.00 X 42.00 X 10.00	762 X 1067 X 254	117	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	0
E-304212TDW	30.00 X 42.00 X 12.00	762 X 1067 X 305	123	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	0
E-304216TDW	30.00 X 42.00 X 16.00	762 X 1067 X 406	136	E-4230P	39.00 X 27.00	991 X 686	12	1.50	0	0
E-304808TDW	30.00 X 48.00 X 8.00	762 X 1219 X 203	121	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	0
E-304810TDW	30.00 X 48.00 X 10.00	762 X 1219 X 254	128	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	0
E-304812TDW	30.00 X 48.00 X 12.00	762 X 1219 X 305	135	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	0
E-304816TDW	30.00 X 48.00 X 16.00	762 X 1219 X 406	149	E-4830P	45.00 X 27.00	1143 X 686	12	1.50	0	0
E-306008TDW	30.00 X 60.00 X 8.00	762 X 1524 X 254	144	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	0
E-306010TDW	30.00 X 60.00 X 10.00	762 X 1524 X 254	152	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	0
E-306012TDW	30.00 X 60.00 X 12.00	762 X 1524 X 305	159	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	0
E-306016TDW	30.00 X 60.00 X 16.00	762 X 1524 X 406	175	E-6030P	57.00 X 27.00	1448 X 686	12	1.50	0	0
E-363608TDW	36.00 X 36.00 X 8.00	914 X 914 X 203	113	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	0
E-363610TDW	36.00 X 36.00 X 10.00	914 X 914 X 254	120	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	0
E-363612TDW	36.00 X 36.00 X 12.00	914 X 914 X 305	126	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	0
E-363616TDW	36.00 X 36.00 X 16.00	914 X 914 X 406	139	E-3636P	33.00 X 33.00	838 X 838	12	1.50	0	0
E-364208TDW	36.00 X 42.00 X 8.00	914 X 1067 X 203	124	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	0
E-364210TDW	36.00 X 42.00 X 10.00	914 X 1067 X 254	131	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	0
E-364212TDW	36.00 X 42.00 X 12.00	914 X 1067 X 305	138	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	0
E-364216TDW	36.00 X 42.00 X 16.00	914 X 1067 X 406	151	E-4236P	39.00 X 33.00	1067 X 838	12	1.50	0	0
E-364808TDW	36.00 X 48.00 X 8.00	914 X 1219 X 203	179	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	0
E-364810TDW	36.00 X 48.00 X 10.00	914 X 1219 X 254	187	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	0
E-364812TDW	36.00 X 48.00 X 12.00	914 X 1219 X 305	197	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	0
E-364816TDW	36.00 X 48.00 X 16.00	914 X 1219 X 406	207	E-4836P	45.00 X 33.00	1143 X 838	12	1.50	0	0
E-366008TDW	36.00 X 60.00 X 8.00	914 X 1524 X 203	215	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	0
E-366010TDW	36.00 X 60.00 X 10.00	914 X 1524 X 254	223	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	0
E-366012TDW	36.00 X 60.00 X 12.00	914 X 1524 X 305	231	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	0
E-366016TDW	36.00 X 60.00 X 16.00	914 X 1524 X 406	248	E-6036P	57.00 X 33.00	1448 X 838	12	1.50	0	0
E-424208TDW	42.00 X 42.00 X 8.00	1067 X 1067 X 203	202	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	0
E-424210TDW	42.00 X 42.00 X 10.00	1067 X 1067 X 254	210	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	0
E-424212TDW	42.00 X 42.00 X 12.00	1067 X 1067 X 305	218	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	0
E-424216TDW	42.00 X 42.00 X 16.00	1067 X 1067 X 406	232	E-4242P	39.00 X 39.00	1067 X 1067	12	1.50	0	0
E-424808TDW	42.00 X 48.00 X 8.00	1067 X 1219 X 203	216	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	0
E-424810TDW	42.00 X 48.00 X 10.00	1067 X 1219 X 254	224	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	0
E-424812TDW	42.00 X 48.00 X 12.00	1067 X 1219 X 305	232	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	0
E-424816TDW	42.00 X 48.00 X 16.00	1067 X 1219 X 406	247	E-4842P	45.00 X 39.00	1143 X 1067	12	1.50	0	0
E-426008TDW	42.00 X 60.00 X 8.00	1067 X 1524 X 203	242	E-6042P	56.00 X 38.00	1422 X 965	12	2.00	0	0
E-426010TDW	42.00 X 60.00 X 10.00	1067 X 1524 X 254	251	E-6042P	56.00 X 38.00	1422 X 965	12	2.00	0	0
E-426012TDW	42.00 X 60.00 X 12.00	1067 X 1524 X 305	260	E-6042P	56.00 X 38.00	1422 X 965	12	2.00	0	0
E-426016TDW	42.00 X 60.00 X 16.00	1067 X 1524 X 406	278	E-6042P	56.00 X 38.00	1422 X 965	12	2.00	0	0
E-484808TDW	48.00 X 48.00 X 8.00	1219 X 1219 X 203	208	E-4848P	44.00 X 44.00	1118 X 1118	12	2.00	0	0
E-484810TDW	48.00 X 48.00 X 10.00	1219 X 1219 X 254	216	E-4848P	44.00 X 44.00	1118 X 1118	12	2.00	0	0
E-484812TDW	48.00 X 48.00 X 12.00	1219 X 1219 X 305	224	E-4848P	44.00 X 44.00	1118 X 1118	12	2.00	0	0
E-484816TDW	48.00 X 48.00 X 16.00	1219 X 1219 X 406	241	E-4848P	44.00 X 44.00	1118 X 1118	12	2.00	0	0
E-486012TDW	48.00 X 60.00 X 12.00	1219 X 1524 X 305	256	E-6048P	56.00 X 44.00	1422 X 1118	12	2.00	0	0
E-486016TDW	48.00 X 60.00 X 16.00	1219 X 1524 X 406	274	E-6048P	56.00 X 44.00	1422 X 1118	12	2.00	0	0

Any custom size at any quantity is available for this enclosure model.

NEMA I2 New Generation Wallmount Enclosures



NEMA I2 New Generation SS Wallmount Enclosure

Application

EMF single-door New Generation wallmount NEMA I2 and I2SS enclosures are designed to house electrical and electronic controls, terminals and instruments. They also provide protection from dust, dirt, oil and water. The stainless version adds a degree of corrosion protection as well.

Construction

- 16 gauge, 14 gauge steel construction
- 16 gauge, 14 gauge 304 stainless steel for I2SS types
- Continuously welded seams ground smooth
- Rolled lip
- Oil-resistant gasketed doors
- Collar studs for mounting backpanels
- 1/4 turn slotted latching (Optional inserts available.)
- Mounting feet are standard (Optional holes available.)
- Grounding studs on door and body
- Removable and interchangeable doors
- #3 brushed and blended exterior for NEMA I2 stainless
- UL/CSA listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

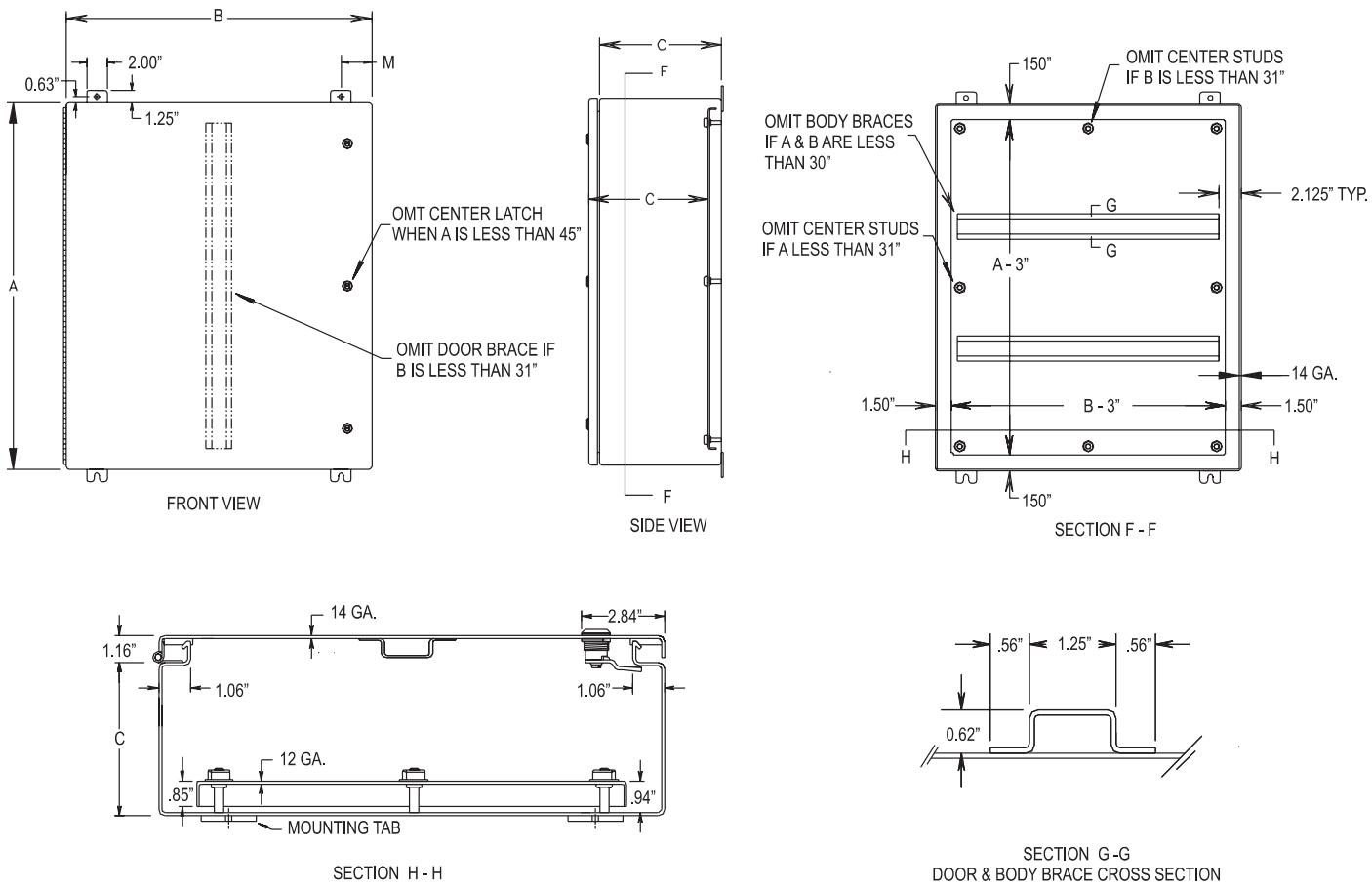
Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Floor stand kits
- Climate control
- Print pockets
- Optional latching

Modifications

- Holes
- Special latches
- 316 SS
- Cutouts
- Odd sizes
- Special paint jobs



"A" dimension is hinged side.



NEMA 12 New Generation

Wallmount Enclosures

NEMA 12 New Generation Single-Door Wallmount Enclosures, Continued

Enclosure Catalog Number		Enclosure Size		Body Guage	Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	M" Dimension		Qty 1/4 Turn Latches	Stiffners	
Mild Steel Type	304 SS Type	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)		Inch	MM		Door	Body
NG-122406	NGSS-122406	12.00 X 24.00 X 6.00	305 X 610 X 152	16	18	E-2412P	21 X 9	533 X 229	12	3.00	76	2	0	0
NG-122408	NGSS-122408	12.00 X 24.00 X 8.00	305 X 610 X 203	16	20	E-2412P	21 X 9	533 X 229	12	3.00	76	2	0	0
NG-161206	NGSS-161206	16.00 X 12.00 X 6.00	406 X 305 X 152	16	13	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
NG-161208	NGSS-161208	16.00 X 12.00 X 8.00	406 X 305 X 203	16	15	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
NG-161210	NGSS-161210	16.00 X 12.00 X 10.00	406 X 305 X 203	14	21	E-1612P	13 X 9	330 X 229	12	1.25	32	2	0	0
NG-161606	NGSS-161606	16.00 X 16.00 X 6.00	406 X 406 X 152	16	16	E-1616P	13 X 13	330 X 330	12	3.00	76	2	0	0
NG-161608	NGSS-161608	16.00 X 16.00 X 8.00	406 X 406 X 203	16	18	E-1616P	13 X 13	330 X 330	12	3.00	76	2	0	0
NG-162006	NGSS-162006	16.00 X 20.00 X 6.00	406 X 508 X 152	16	19	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-162008	NGSS-162008	16.00 X 20.00 X 8.00	406 X 508 X 203	16	22	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-201206	NGSS-201206	20.00 X 12.00 X 6.00	508 X 305 X 152	16	15	E-2012P	17 X 9	432 X 229	12	1.25	32	2	0	0
NG-201208	NGSS-201208	20.00 X 12.00 X 8.00	508 X 305 X 203	16	18	E-2012P	17 X 9	432 X 229	12	1.25	32	2	0	0
NG-201606	NGSS-201606	20.00 X 16.00 X 6.00	508 X 406 X 152	16	19	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-201608	NGSS-201608	20.00 X 16.00 X 8.00	508 X 406 X 203	16	22	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-201610	NGSS-201610	20.00 X 16.00 X 10.00	508 X 406 X 254	14	30	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-201612	NGSS-201612	20.00 X 16.00 X 12.00	508 X 406 X 305	14	33	E-2016P	17 X 13	432 X 330	12	3.00	76	2	0	0
NG-202006	NGSS-202006	20.00 X 20.00 X 6.00	508 X 508 X 152	16	23	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
NG-202008	NGSS-202008	20.00 X 20.00 X 8.00	508 X 508 X 203	16	32	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
NG-202010	NGSS-202010	20.00 X 20.00 X 10.00	508 X 508 X 254	14	35	E-2020P	17 X 17	432 X 432	12	3.00	76	2	0	0
NG-202406	NGSS-202406	20.00 X 24.00 X 6.00	508 X 610 X 152	16	26	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-202408	NGSS-202408	20.00 X 24.00 X 8.00	508 X 610 X 203	16	29	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-241206	NGSS-241206	24.00 X 12.00 X 6.00	610 X 305 X 152	16	18	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
NG-241208	NGSS-241208	24.00 X 12.00 X 8.00	610 X 305 X 203	16	20	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
NG-241210	NGSS-241210	24.00 X 12.00 X 10.00	610 X 305 X 254	14	29	E-2412P	21 X 9	533 X 229	12	1.25	32	2	0	0
NG-241606	NGSS-241606	24.00 X 16.00 X 6.00	610 X 508 X 152	16	22	E-2416P	21 X 13	533 X 330	12	3.00	76	2	0	0
NG-241608	NGSS-241608	24.00 X 16.00 X 8.00	610 X 508 X 203	16	25	E-2416P	21 X 13	533 X 330	12	3.00	76	2	0	0
NG-242006	NGSS-242006	24.00 X 20.00 X 6.00	610 X 508 X 152	16	26	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-242008	NGSS-242008	24.00 X 20.00 X 8.00	610 X 508 X 203	16	29	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-242010	NGSS-242010	24.00 X 20.00 X 10.00	610 X 508 X 254	14	40	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-242012	NGSS-242012	24.00 X 20.00 X 12.00	610 X 508 X 305	14	44	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-242016	NGSS-242016	24.00 X 20.00 X 16.00	610 X 508 X 406	14	52	E-2420P	21 X 17	533 X 432	12	3.00	76	2	0	0
NG-242406	NGSS-242406	24.00 X 24.00 X 6.00	610 X 610 X 152	16	30	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242408	NGSS-242408	24.00 X 24.00 X 8.00	610 X 610 X 203	16	34	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242410	NGSS-242410	24.00 X 24.00 X 10.00	610 X 610 X 254	14	46	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242412	NGSS-242412	24.00 X 24.00 X 12.00	610 X 610 X 305	14	50	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242416	NGSS-242416	24.00 X 24.00 X 16.00	610 X 610 X 406	14	59	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242420	NGSS-242420	24.00 X 24.00 X 20.00	610 X 610 X 508	14	67	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-242424	NGSS-242424	24.00 X 24.00 X 24.00	610 X 610 X 610	14	75	E-2424P	21 X 21	533 X 533	12	3.00	76	2	0	0
NG-243008	NGSS-243008	24.00 X 30.00 X 8.00	610 X 762 X 203	14	50	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-301606	NGSS-301606	30.00 X 16.00 X 6.00	762 X 508 X 152	14	33	E-3016P	27 X 13	686 X 330	12	3.00	76	2	0	0
NG-302006	NGSS-302006	30.00 X 20.00 X 6.00	762 X 508 X 152	14	40	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
NG-302008	NGSS-302008	30.00 X 20.00 X 8.00	762 X 508 X 203	14	44	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
NG-302010	NGSS-302010	30.00 X 20.00 X 10.00	762 X 508 X 254	14	48	E-3020P	27 X 17	686 X 432	12	3.00	76	2	0	0
NG-302406	NGSS-302406	30.00 X 24.00 X 6.00	762 X 610 X 152	14	46	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302408	NGSS-302408	30.00 X 24.00 X 8.00	762 X 610 X 203	14	50	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302410	NGSS-302410	30.00 X 24.00 X 10.00	762 X 610 X 254	14	55	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302412	NGSS-302412	30.00 X 24.00 X 12.00	762 X 610 X 305	14	60	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302416	NGSS-302416	30.00 X 24.00 X 16.00	762 X 610 X 406	14	69	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302420	NGSS-302420	30.00 X 24.00 X 20.00	762 X 610 X 508	14	79	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-302424	NGSS-302424	30.00 X 24.00 X 24.00	762 X 610 X 610	14	88	E-3024P	27 X 21	686 X 533	12	3.00	76	2	0	0
NG-303008	NGSS-303008	30.00 X 30.00 X 8.00	762 X 762 X 203	14	60	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303010	NGSS-303010	30.00 X 30.00 X 10.00	762 X 762 X 254	14	66	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303012	NGSS-303012	30.00 X 30.00 X 12.00	762 X 762 X 305	14	71	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303016	NGSS-303016	30.00 X 30.00 X 16.00	762 X 762 X 406	14	81	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303020	NGSS-303020	30.00 X 30.00 X 20.00	762 X 762 X 508	14	92	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303024	NGSS-303024	30.00 X 30.00 X 24.00	762 X 762 X 610	14	102	E-3030P	27 X 27	686 X 686	12	3.00	76	2	0	1
NG-303608	NGSS-303608	30.00 X 36.00 X 8.00	762 X 914 X 203	14	70	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-362006	NGSS-362006	36.00 X 20.00 X 6.00	914 X 508 X 152	14	46	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
NG-362008	NGSS-362008	36.00 X 20.00 X 8.00	914 X 508 X 203	14	51	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
NG-362010	NGSS-362010	36.00 X 20.00 X 10.00	914 X 508 X 254	14	56	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
NG-362012	NGSS-362012	36.00 X 20.00 X 12.00	914 X 508 X 305	14	61	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
NG-362016	NGSS-362016	36.00 X 20.00 X 16.00	914 X 508 X 406	14	71	E-3620P	33 X 17	838 X 432	12	3.00	76	2	0	0
NG-362406	NGSS-362406	36.00 X 24.00 X 6.00	914 X 610 X 152	14	54	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0
NG-362408	NGSS-362408	36.00 X 24.00 X 8.00	914 X 610 X 203	14	59	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0
NG-362410	NGSS-362410	36.00 X 24.00 X 10.00	914 X 610 X 254	14	64	E-3624P	33 X 21	838 X 533	12	3.00	76	2	0	0
NG-362412	NGSS-362412	36.00 X 24.00 X 12.00	914 X 610 X 305</td											

NEMA 12 New Generation Wallmount Enclosures

NEMA 12 New Generation Single-Door Wallmount Enclosures

Enclosure Catalog Number		Enclosure Size		Body Guage	Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	M " Dimension		Qty 1/4 Turn Latches	Stiffners	
Mild Steel Type	304 SS Type	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)		Inch	MM		Door	Body
NG-363008	NGSS-363008	36.00 X 30.00 X 8.00	914 X 762 X 203	14	70	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-363010	NGSS-363010	36.00 X 30.00 X 10.00	914 X 762 X 254	14	76	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-363012	NGSS-363012	36.00 X 30.00 X 12.00	914 X 762 X 305	14	82	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-363016	NGSS-363016	36.00 X 30.00 X 16.00	914 X 762 X 406	14	93	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-363020	NGSS-363020	36.00 X 30.00 X 20.00	914 X 762 X 508	14	105	E-3630P	33 X 27	838 X 686	12	3.00	76	2	0	1
NG-363606	NGSS-363606	36.00 X 36.00 X 6.00	914 X 914 X 152	14	75	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363608	NGSS-363608	36.00 X 36.00 X 8.00	914 X 914 X 203	14	82	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363610	NGSS-363610	36.00 X 36.00 X 10.00	914 X 914 X 254	14	88	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363612	NGSS-363612	36.00 X 36.00 X 12.00	914 X 914 X 305	14	94	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363616	NGSS-363616	36.00 X 36.00 X 16.00	914 X 914 X 406	14	107	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363620	NGSS-363620	36.00 X 36.00 X 20.00	914 X 914 X 508	14	119	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-363624	NGSS-363624	36.00 X 36.00 X 24.00	914 X 914 X 610	14	1325	E-3636P	33 X 33	838 X 838	12	3.00	76	2	1	1
NG-422406	NGSS-422406	42.00 X 24.00 X 6.00	1067 X 610 X 152	14	61	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
NG-422408	NGSS-422408	42.00 X 24.00 X 8.00	1067 X 610 X 203	14	67	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
NG-422410	NGSS-422410	42.00 X 24.00 X 10.00	1067 X 610 X 254	14	73	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
NG-422412	NGSS-422412	42.00 X 24.00 X 12.00	1067 X 610 X 305	14	79	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
NG-422416	NGSS-422416	42.00 X 24.00 X 16.00	1067 X 610 X 406	14	90	E-4224P	39 X 21	991 X 533	12	3.00	76	2	0	0
NG-423008	NGSS-423008	42.00 X 30.00 X 8.00	1067 X 762 X 203	14	80	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
NG-423010	NGSS-423010	42.00 X 30.00 X 10.00	1067 X 762 X 254	14	86	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
NG-423012	NGSS-423012	42.00 X 30.00 X 12.00	1067 X 762 X 305	14	93	E-4230P	39 X 27	991 X 686	12	3.00	76	2	1	1
NG-423608	NGSS-423608	42.00 X 36.00 X 8.00	1067 X 914 X 203	14	93	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
NG-423610	NGSS-423610	42.00 X 36.00 X 10.00	1067 X 914 X 254	14	100	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
NG-423612	NGSS-423612	42.00 X 36.00 X 12.00	1067 X 914 X 305	14	107	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
NG-423616	NGSS-423616	42.00 X 36.00 X 16.00	1067 X 914 X 406	14	120	E-4236P	39 X 33	991 X 838	12	3.00	76	2	1	1
NG-482406	NGSS-482406	48.00 X 24.00 X 6.00	1219 X 610 X 152	14	69	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-482408	NGSS-482408	48.00 X 24.00 X 8.00	1219 X 610 X 203	14	75	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-482410	NGSS-482410	48.00 X 24.00 X 10.00	1219 X 610 X 254	14	82	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-482412	NGSS-482412	48.00 X 24.00 X 12.00	1219 X 610 X 305	14	88	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-482416	NGSS-482416	48.00 X 24.00 X 16.00	1219 X 610 X 406	14	100	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-482420	NGSS-482420	48.00 X 24.00 X 20.00	1219 X 610 X 508	14	113	E-4824P	45 X 21	1143 X 533	12	3.00	76	3	0	0
NG-483008	NGSS-483008	48.00 X 30.00 X 8.00	1219 X 762 X 203	14	90	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
NG-483010	NGSS-483010	48.00 X 30.00 X 10.00	1219 X 762 X 254	14	97	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
NG-483012	NGSS-483012	48.00 X 30.00 X 12.00	1219 X 762 X 305	14	104	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
NG-483016	NGSS-483016	48.00 X 30.00 X 16.00	1219 X 762 X 406	14	117	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
NG-483020	NGSS-483020	48.00 X 30.00 X 20.00	1219 X 762 X 508	14	131	E-4830P	45 X 27	1143 X 686	12	3.00	76	3	1	1
NG-483608	NGSS-483608	48.00 X 36.00 X 8.00	1219 X 914 X 203	14	105	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-483610	NGSS-483610	48.00 X 36.00 X 10.00	1219 X 914 X 254	14	112	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-483612	NGSS-483612	48.00 X 36.00 X 12.00	1219 X 914 X 305	14	119	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-483616	NGSS-483616	48.00 X 36.00 X 16.00	1219 X 914 X 406	14	134	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-483620	NGSS-483620	48.00 X 36.00 X 20.00	1219 X 914 X 508	14	148	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-483624	NGSS-483624	48.00 X 36.00 X 24.00	1219 X 914 X 610	14	163	E-4836P	45 X 33	1143 X 838	12	3.00	76	3	1	1
NG-602408	NGSS-602408	60.00 X 24.00 X 8.00	1524 X 610 X 203	14	92	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
NG-602410	NGSS-602410	60.00 X 24.00 X 10.00	1524 X 610 X 254	14	99	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
NG-602412	NGSS-602412	60.00 X 24.00 X 12.00	1524 X 610 X 305	14	107	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
NG-602416	NGSS-602416	60.00 X 24.00 X 16.00	1524 X 610 X 406	14	121	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
NG-602420	NGSS-602420	60.00 X 24.00 X 20.00	1524 X 610 X 508	14	136	E-6024P	57 X 21	1448 X 533	12	3.00	76	3	0	1
NG-603008	NGSS-603008	60.00 X 30.00 X 8.00	1524 X 762 X 203	14	110	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
NG-603010	NGSS-603010	60.00 X 30.00 X 10.00	1524 X 762 X 254	14	118	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
NG-603012	NGSS-603012	60.00 X 30.00 X 12.00	1524 X 762 X 305	14	125	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
NG-603016	NGSS-603016	60.00 X 30.00 X 16.00	1524 X 762 X 406	14	141	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
NG-603020	NGSS-603020	60.00 X 30.00 X 20.00	1524 X 762 X 508	14	157	E-6030P	57 X 27	1448 X 686	12	3.00	76	3	1	1
NG-603608	NGSS-603608	60.00 X 36.00 X 8.00	1524 X 914 X 203	14	128	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-603610	NGSS-603610	60.00 X 36.00 X 10.00	1524 X 914 X 254	14	136	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-603612	NGSS-603612	60.00 X 36.00 X 12.00	1524 X 914 X 305	14	143	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-603616	NGSS-603616	60.00 X 36.00 X 16.00	1524 X 914 X 406	14	161	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-603620	NGSS-603620	60.00 X 36.00 X 20.00	1524 X 914 X 508	14	178	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-603624	NGSS-603624	60.00 X 36.00 X 24.00	1524 X 914 X 610	14	194	E-6036P	57 X 33	1448 X 838	12	3.00	76	3	1	1
NG-723012	NGSS-723012	72.00 X 30.00 X 12.00	1829 X 762 X 305	14	147	E-7230P	69 X 27	1753 X 686	12	3.00	76	3	1	1
NG-723016	NGSS-723016	72.00 X 30.00 X 16.00	1829 X 762 X 406	14	165	E-7230P	69 X 27	1753 X 686	12	3.00	76	3	1	1
NG-723020	NGSS-723020	72.00 X 30.00 X 20.00	1829 X 762 X 508	14	183	E-7230P	69 X 27	1753 X 686	12	3.00	76	3	1	1
NG-723024	NGSS-723024	72.00 X 30.00 X 24.00	1829 X 762 X 610	14	200	E-7230P	69 X 27	1753 X 686	12	3.00	76	3	1	1
NG-723612	NGSS-723612	72.00 X 36.00 X 12.00	1829 X 914 X 305	14	169	E-7236P	69 X 33	1753 X 838	12	3.00	76	3	1	1

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 12 Flush Wallmount Enclosures



NEMA Type 12 FWM

Application

EMF flush-wallmounted NEMA 12 enclosures are used to house electrical or electronic controls, terminals, instruments and other related components. These enclosures provide protection from dust, dirt, oil, and water.

Construction

- 14 gauge steel body & door
- 12 gauge steel flange
- Continuously welded seams
- Rolled lip
- Oil-resistant gasket
- Gasket retainer
- Continuous hinge
- Padlocking hasp
- Collar studs for mounting panels
- Door held shut by captivated screws
- UL listed

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Swing out panels
- Print pockets

Modifications

- Aluminum
- Galvanized steel
- Stainless steel
- Special paint
- Odd sizes
- Knockouts
- Cutouts
- Louvers
- Hubs
- Special latches

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.



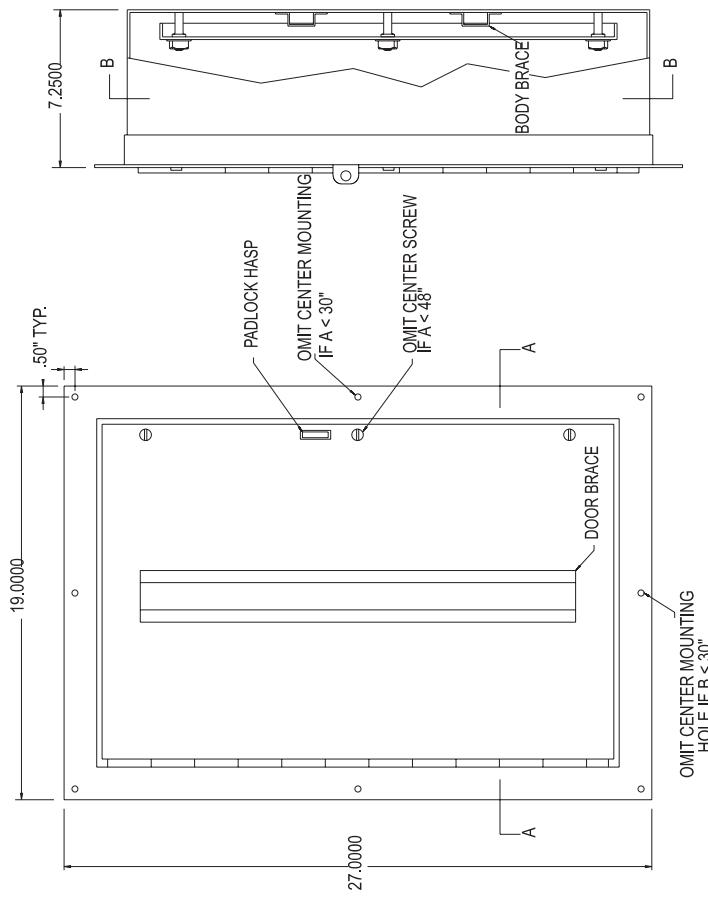
NEMA Type 4X FWM

Mild Steel Enclosure Catalog Number	Enclosure Size		Body Gauge	Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Stiffeners	
	A x B x C (inch)	A x B x C (mm)				A x B (inch)	A x B (mm)		Door	Body
E-161206FW	16.00 X 12.00 X 6.00	406 X 305 X 152	14	27	E-1612P	13 X 9	330 X 229	12	0	0
E-201606FW	20.00 X 16.00 X 6.00	508 X 406 X 152	14	38	E-2016P	17 X 13	432 X 330	12	0	0
E-202006FW	20.00 X 20.00 X 6.00	508 X 508 X 152	14	44	E-2020P	17 X 17	432 X 432	12	0	0
E-242006FW	24.00 X 20.00 X 6.00	610 X 508 X 152	14	50	E-2420P	21 X 17	533 X 432	12	0	0
E-242408FW	24.00 X 24.00 X 8.00	610 X 610 X 203	14	61	E-2424P	21 X 21	533 X 533	12	0	0
E-302408FW	30.00 X 24.00 X 8.00	762 X 610 X 203	14	73	E-3024P	27 X 21	686 X 533	12	1	0
E-362408FW	36.00 X 24.00 X 8.00	914 X 610 X 203	14	83	E-3624P	33 X 21	838 X 533	12	1	0
E-363008FW	36.00 X 30.00 X 8.00	914 X 762 X 203	14	104	E-3630P	33 X 27	838 X 686	12	1	1

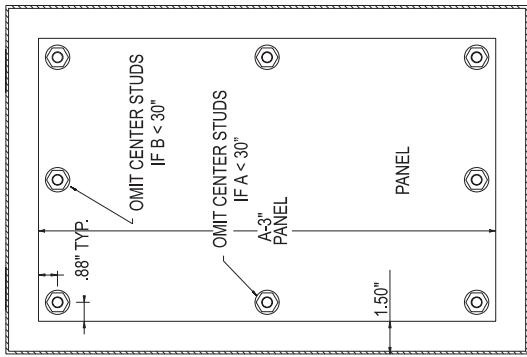
Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

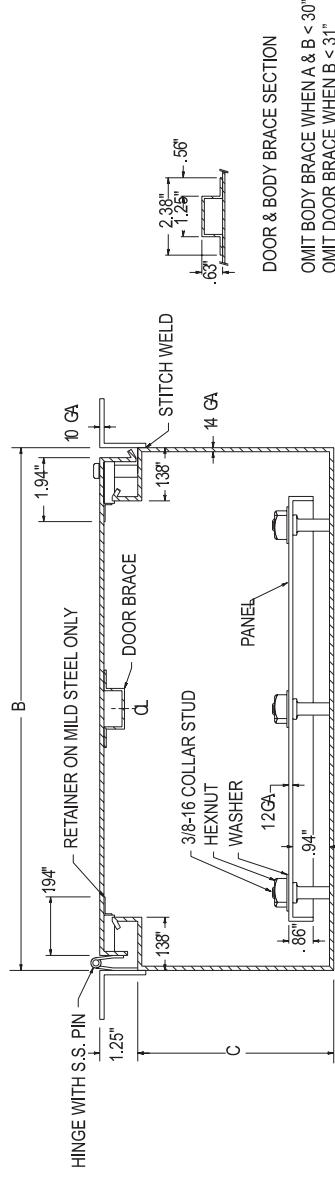
NEMA I2 Single-Door Wallmount Enclosures



RIGHT SIDE VIEW



SECTION B - B



SECTION A - A

"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures



*NEMA 12 Two-Door Single-Access
Freestanding Enclosure*



*NEMA 12 Single-Door Single-Access
Freestanding Enclosure*



*NEMA 12 Single-Door Stainless Steel
Freestanding Enclosure*

Application

EMF freestanding NEMA 12 enclosures are designed to house electrical and electronic controls, drives, components, and pneumatic devices as well as related equipment. They provide protection against dust, dirt, oil, and water.

Construction

- 12 gauge, 10 gauge mild steel or 304SS
- Continuously welded seams
- Oil-resistant gasket
- Gasket retainers, not included on stainless steel
- Continuously hinged doors
- 3-pt. locking latch
- Floor mounting holes on the bottom
- Panels mounted on steel brackets which are mounted on unistrut
- Panels adjustable front to back
- Lifting eyes stiffened with brace
- UL Listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces. No.3 brushed & blended finish for stainless steel.

Accessories

See General Accessories Index page 151.

- Full panels
- Half panels
- Side panels
- Window kits
- Floor stand kits
- Rack mounting angles
- Print pocket

Modifications

- Aluminum
- Galvanized steel
- Special latches
- Special paint
- Special latching
- Cutouts
- Knockouts
- Windows
- Relay rack angles
- Mounting channel
- C-Channel
- Drip shields
- Odd sizes
- Air conditioners
- Louvers
- Swing out panels
- Hubs



*NEMA 12 Two-Door Dual-Access
Freestanding Enclosure*

NEMA 12 Freestanding Enclosures

Single-Door Freestanding Enclosures

Steel Enclosure Catalog Number	304 Stainless Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Eye Bolts	"E" Dimension	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			(inch)	(mm)
E5-602418	E5-602418-SS	60.06 X 24.06 X 18.06	1526 X 611 X 459	185	E5-60P24F	48.00 X 20.00	1219 X 508	10	2	23.12	587
E5-603618	E5-603618-SS	60.06 X 36.06 X 18.06	1526 X 916 X 459	243	E5-60P36F	48.00 X 32.00	1219 X 811	10	2	23.12	587
E5-603624	E5-603624-SS	60.06 X 36.06 X 24.06	1526 X 916 X 611	310	E5-60P36F	48.00 X 32.00	1219 X 811	10	2	23.12	587
E5-722418	E5-722418-SS	72.06 X 24.06 X 18.06	1830 X 611 X 459	246	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722424	E5-722424-SS	72.06 X 24.06 X 24.06	1830 X 611 X 611	300	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722430	E5-722430-SS	72.06 X 24.06 X 30.06	1830 X 611 X 763	355	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722436	E5-722436-SS	72.06 X 24.06 X 36.06	1830 X 611 X 915	400	E5-72P24F	60.00 X 20.00	1524 X 508	10	4	29.12	740
E5-723018	E5-723018-SS	72.06 X 30.06 X 18.06	1830 X 764 X 459	285	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723024	E5-723024-SS	72.06 X 30.06 X 24.06	1830 X 764 X 611	335	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723030	E5-723030-SS	72.06 X 30.06 X 30.06	1830 X 764 X 763	373	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723036	E5-723036-SS	72.06 X 30.06 X 36.06	1830 X 764 X 915	410	E5-72P30F	60.00 X 26.00	1524 X 660	10	4	29.12	740
E5-723618	E5-723618-SS	72.06 X 36.06 X 18.06	1830 X 916 X 459	325	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723624	E5-723624-SS	72.06 X 36.06 X 24.06	1830 X 916 X 611	370	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723630	E5-723630-SS	72.06 X 36.06 X 30.06	1830 X 916 X 763	420	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723636	E5-723636-SS	72.06 X 36.06 X 36.06	1830 X 916 X 915	465	E5-72P36F	60.00 X 32.00	1524 X 811	10	4	29.12	740
E5-902418	E5-902418-SS	90.06 X 24.06 X 18.06	2288 X 611 X 459	261	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902420	E5-902420-SS	90.06 X 24.06 X 20.06	2288 X 611 X 459	275	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902424	E5-902424-SS	90.06 X 24.06 X 24.06	2288 X 611 X 611	303	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902430	E5-902430-SS	90.06 X 24.06 X 30.06	2288 X 611 X 763	345	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902436	E5-902436-SS	90.06 X 24.06 X 36.06	2288 X 611 X 915	387	E5-90P24F	78.00 X 20.00	1981 X 508	10	4	38.12	968
E5-903018	E5-903018-SS	90.06 X 30.06 X 18.06	2288 X 764 X 459	338	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903024	E5-903024-SS	90.06 X 30.06 X 24.06	2288 X 764 X 611	381	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903030	E5-903030-SS	90.06 X 30.06 X 30.06	2288 X 764 X 763	424	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903036	E5-903036-SS	90.06 X 30.06 X 36.06	2288 X 764 X 915	468	E5-90P30F	78.00 X 26.00	1981 X 660	10	4	38.12	968
E5-903618	E5-903618-SS	90.06 X 36.06 X 18.06	2288 X 916 X 459	394	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903620	E5-903620-SS	90.06 X 36.06 X 20.06	2288 X 916 X 510	409	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903624	E5-903624-SS	90.06 X 36.06 X 24.06	2288 X 916 X 611	440	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903630	E5-903630-SS	90.06 X 36.06 X 30.06	2288 X 916 X 763	486	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903636	E5-903636-SS	90.06 X 36.06 X 36.06	2288 X 916 X 915	532	E5-90P36F	78.00 X 32.00	1524 X 811	10	4	38.12	968

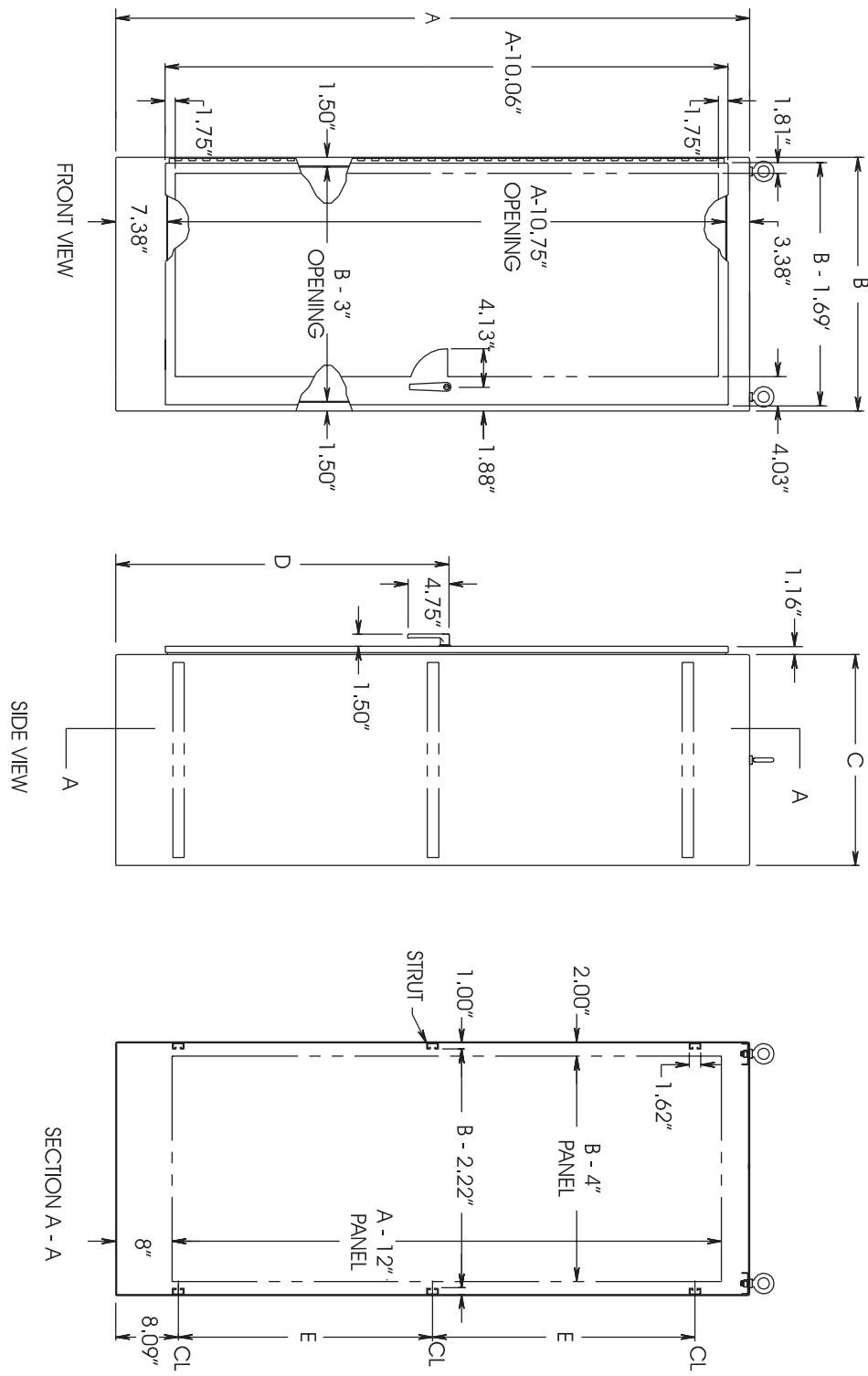
Any custom size at any quantity is available for this enclosure model.



"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Single-Door Single-Access Freestanding Enclosures



"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Two-Door Single-Access Freestanding Enclosures

Enclosure Catalog Number	304 Stainless Steel Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Eye Bolts	"E" Dimension	
		A x B x C (inch)	A x B X C (mm)			A x B (inch)	A x B (mm)			(inch)	(mm)
E5-604818	E5-604818-SS	60.06 X 48.06 X 18.06	1524 X 1219 X 457	300	E5-60P48F	48.00 X 44.00	1219 X 1118	10	2	23.12	587
E5-604824	E5-604824-SS	60.06 X 48.06 X 24.06	1524 X 1219 X 610	339	E5-60P48F	48.00 X 44.00	1219 X 1118	10	2	23.12	587
E5-604836	E5-604836-SS	60.06 X 48.06 X 36.06	1524 X 1219 X 914	418	E5-60P48F	48.00 X 44.00	1219 X 1118	10	4	23.12	587
E5-606018	E5-606018-SS	60.06 X 60.06 X 18.06	1524 X 1524 X 457	358	E5-60P60F	48.00 X 56.00	1219 X 1422	10	2	23.12	587
E5-606024	E5-606024-SS	60.06 X 60.06 X 24.06	1524 X 1524 X 610	402	E5-60P60F	48.00 X 56.00	1219 X 1422	10	2	23.12	587
E5-606036	E5-606036-SS	60.06 X 60.06 X 36.06	1524 X 1524 X 914	489	E5-60P60F	48.00 X 56.00	1219 X 1422	10	4	23.12	587
E5-724818	E5-724818-SS	72.06 X 48.06 X 18.06	1829 X 1219 X 457	349	E5-72P48F	60.00 X 44.00	1524 X 1118	10	2	29.12	740
E5-724824	E5-724824-SS	72.06 X 48.06 X 24.06	1829 X 1219 X 610	393	E5-72P48F	60.00 X 44.00	1524 X 1118	10	2	29.12	740
E5-724836	E5-724836-SS	72.06 X 48.06 X 36.06	1829 X 1219 X 914	480	E5-72P48F	60.00 X 44.00	1524 X 1118	10	4	29.12	740
E5-726018	E5-726018-SS	72.06 X 60.06 X 18.06	1829 X 1524 X 457	415	E5-72P60F	60.00 X 56.00	1524 X 1422	10	2	29.12	740
E5-726024	E5-726024-SS	72.06 X 60.06 X 24.06	1829 X 1524 X 610	463	E5-72P60F	60.00 X 56.00	1524 X 1422	10	2	29.12	740
E5-726036	E5-726036-SS	72.06 X 60.06 X 36.06	1829 X 1524 X 914	560	E5-72P60F	60.00 X 56.00	1524 X 1422	10	4	29.12	740
E5-727218	E5-727218-SS	72.06 X 72.06 X 18.06	1829 X 1829 X 457	527	E5-72P72F	60.00 X 68.00	1524 X 1727	10	2	29.12	740
E5-727224	E5-727224-SS	72.06 X 72.06 X 24.06	1829 X 1829 X 610	579	E5-72P72F	60.00 X 68.00	1524 X 1727	10	2	29.12	740
E5-727236	E5-727236-SS	72.06 X 72.06 X 36.06	1829 X 1829 X 914	684	E5-72P72F	60.00 X 68.00	1524 X 1727	10	4	29.12	740
E5-904818	E5-904818-SS	90.06 X 48.06 X 18.06	2286 X 1219 X 457	460	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904820	E5-904820-SS	90.06 X 48.06 X 20.06	2286 X 1219 X 508	477	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904824	E5-904824-SS	90.06 X 48.06 X 24.06	2286 X 1219 X 610	511	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904836	E5-904836-SS	90.06 X 48.06 X 36.06	2286 X 1219 X 914	611	E5-90P48F	78.00 X 44.00	1981 X 1118	10	4	38.12	968
E5-906018	E5-906018-SS	90.06 X 60.06 X 18.06	2286 X 1524 X 457	549	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906020	E5-906020-SS	90.06 X 60.06 X 20.06	2286 X 1524 X 508	567	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906024	E5-906024-SS	90.06 X 60.06 X 24.06	2286 X 1524 X 610	603	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906036	E5-906036-SS	90.06 X 60.06 X 36.06	2286 X 1524 X 914	713	E5-90P60F	78.00 X 56.00	1981 X 1422	10	4	38.12	968
E5-907218	E5-907218-SS	90.06 X 72.06 X 18.06	2286 X 1829 X 457	638	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907220	E5-907220-SS	90.06 X 72.06 X 20.06	2286 X 1829 X 508	658	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907224	E5-907224-SS	90.06 X 72.06 X 24.06	2286 X 1829 X 610	697	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907236	E5-907236-SS	90.06 X 72.06 X 36.06	2286 X 1829 X 914	815	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968

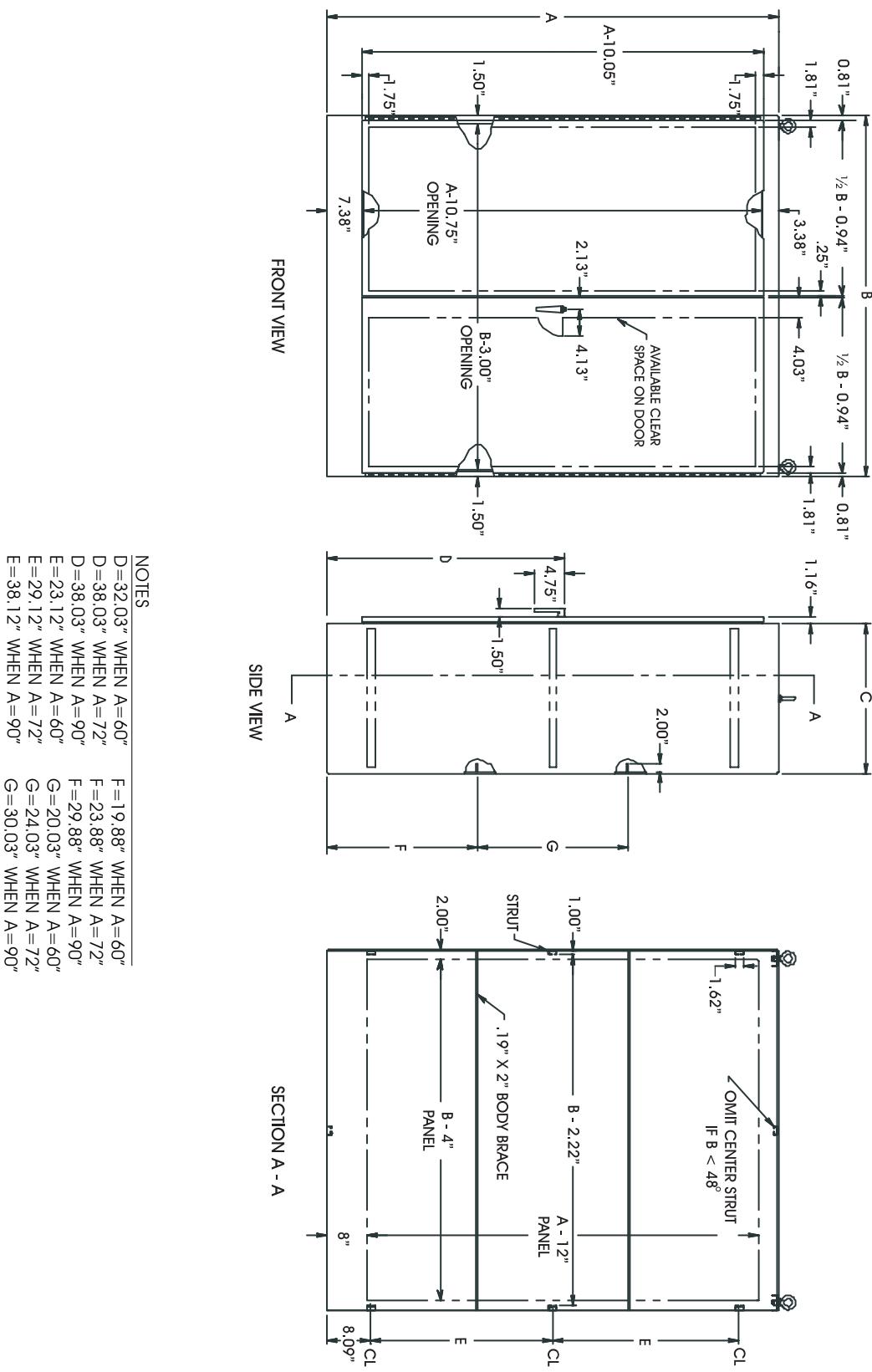
Any custom size at any quantity is available for this enclosure model.



"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Two-Door Single-Access Freestanding Enclosures



"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Single-Door Dual-Access Freestanding Enclosures

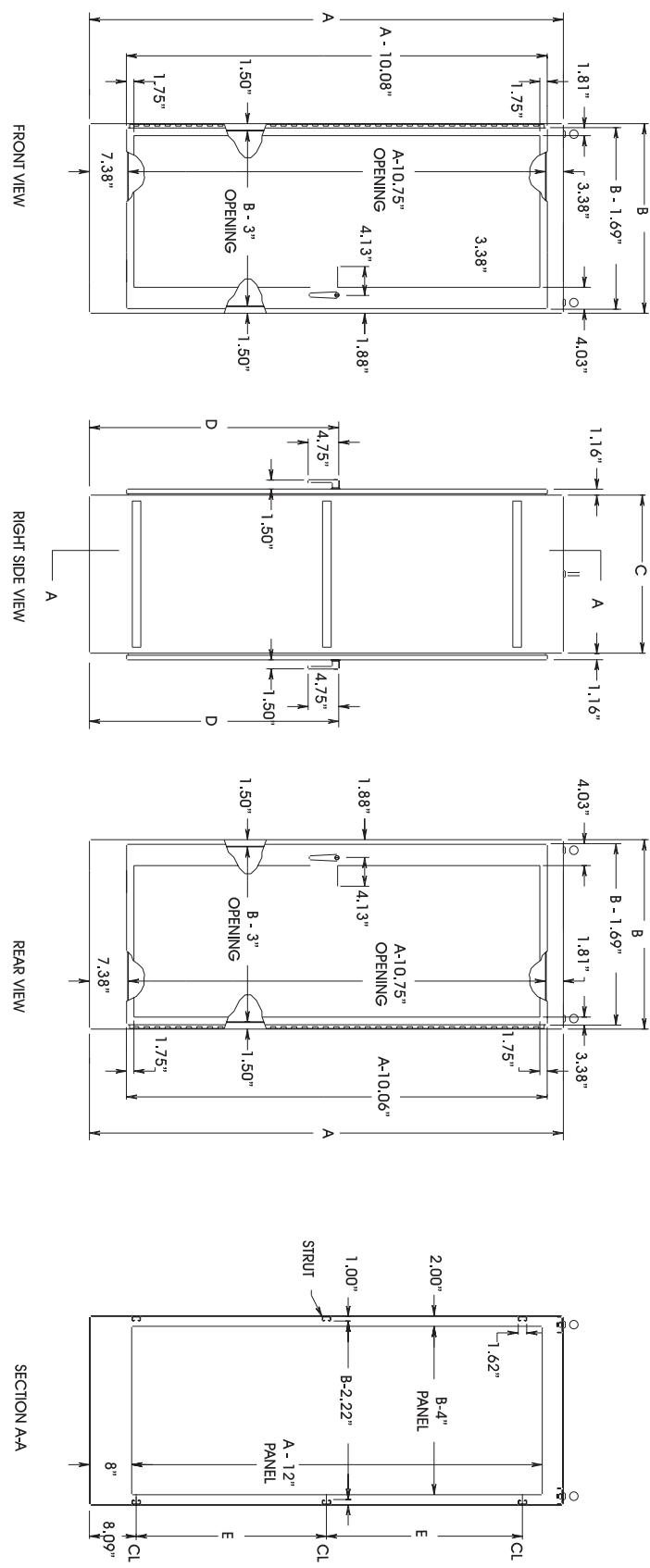
Steel Enclosure Catalog Number	304 Stainless Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Guage	Eye Bolts	"E" Dimension	
		A x B x C (inch)	A x B X C (mm)			A x B (inch)	A x B (mm)			(inch)	(mm)
E5-602418DA	E5-602418DA-SS	60.06 X 24.06 X 18.06	1526 X 611 X 459	190	E5-60P24F	48.00 X 20.00	1219 X 508	10	2	23.12	587
E5-603618DA	E5-603618DA-SS	60.06 X 36.06 X 18.06	1526 X 916 X 459	248	E5-60P36F	48.00 X 32.00	1219 X 811	10	2	23.12	587
E5-603624DA	E5-603624DA-SS	60.06 X 36.06 X 24.06	1526 X 916 X 611	283	E5-60P36F	48.00 X 32.00	1219 X 811	10	2	23.12	587
E5-722418DA	E5-722418DA-SS	72.06 X 24.06 X 18.06	1830 X 611 X 459	222	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722424DA	E5-722424DA-SS	72.06 X 24.06 X 24.06	1830 X 611 X 611	257	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722430DA	E5-722430DA-SS	72.06 X 24.06 X 30.06	1830 X 611 X 763	292	E5-72P24F	60.00 X 20.00	1524 X 508	10	2	29.12	740
E5-722436DA	E5-722436DA-SS	72.06 X 24.06 X 36.06	1830 X 611 X 915	327	E5-72P24F	60.00 X 20.00	1524 X 508	10	4	29.12	740
E5-723018DA	E5-723018DA-SS	72.06 X 30.06 X 18.06	1830 X 764 X 459	256	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723024DA	E5-723024DA-SS	72.06 X 30.06 X 24.06	1830 X 764 X 611	293	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723030DA	E5-723030DA-SS	72.06 X 30.06 X 30.06	1830 X 764 X 763	330	E5-72P30F	60.00 X 26.00	1524 X 660	10	2	29.12	740
E5-723036DA	E5-723036DA-SS	72.06 X 30.06 X 36.06	1830 X 764 X 915	367	E5-72P30F	60.00 X 26.00	1524 X 660	10	4	29.12	740
E5-723618DA	E5-723618DA-SS	72.06 X 36.06 X 18.06	1830 X 916 X 459	289	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723624DA	E5-723624DA-SS	72.06 X 36.06 X 24.06	1830 X 916 X 611	329	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723630DA	E5-723630DA-SS	72.06 X 36.06 X 30.06	1830 X 916 X 763	368	E5-72P36F	60.00 X 32.00	1524 X 811	10	2	29.12	740
E5-723636DA	E5-723636DA-SS	72.06 X 36.06 X 36.06	1830 X 916 X 915	407	E5-72P36F	60.00 X 32.00	1524 X 811	10	4	29.12	740
E5-902418DA	E5-902418DA-SS	90.06 X 24.06 X 18.06	2288 X 611 X 459	270	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902420DA	E5-902420DA-SS	90.06 X 24.06 X 20.06	2288 X 611 X 459	284	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902424DA	E5-902424DA-SS	90.06 X 24.06 X 24.06	2288 X 611 X 611	312	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902430DA	E5-902430DA-SS	90.06 X 24.06 X 30.06	2288 X 611 X 763	353	E5-90P24F	78.00 X 20.00	1981 X 508	10	2	38.12	968
E5-902436DA	E5-902436DA-SS	90.06 X 24.06 X 36.06	2288 X 611 X 915	395	E5-90P24F	78.00 X 20.00	1981 X 508	10	4	38.12	968
E5-903018DA	E5-903018DA-SS	90.06 X 30.06 X 18.06	2288 X 764 X 459	310	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903024DA	E5-903024DA-SS	90.06 X 30.06 X 24.06	2288 X 764 X 611	354	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903030DA	E5-903030DA-SS	90.06 X 30.06 X 30.06	2288 X 764 X 763	398	E5-90P30F	78.00 X 26.00	1981 X 660	10	2	38.12	968
E5-903036DA	E5-903036DA-SS	90.06 X 30.06 X 36.06	2288 X 764 X 915	442	E5-90P30F	78.00 X 26.00	1981 X 660	10	4	38.12	968
E5-903618DA	E5-903618DA-SS	90.06 X 36.06 X 18.06	2288 X 916 X 459	350	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903620DA	E5-903620DA-SS	90.06 X 36.06 X 20.06	2288 X 916 X 510	366	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903624DA	E5-903624DA-SS	90.06 X 36.06 X 24.06	2288 X 916 X 611	396	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903630DA	E5-903630DA-SS	90.06 X 36.06 X 30.06	2288 X 916 X 763	442	E5-90P36F	78.00 X 32.00	1524 X 811	10	2	38.12	968
E5-903636DA	E5-903636DA-SS	90.06 X 36.06 X 36.06	2288 X 916 X 915	488	E5-90P36F	78.00 X 32.00	1524 X 811	10	4	38.12	968

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Single-Door Dual-Access Freestanding Enclosures



"A" dimension is hinged side.

NEMA 12 Freestanding Enclosures

Two-Door Dual-Access Freestanding Enclosures

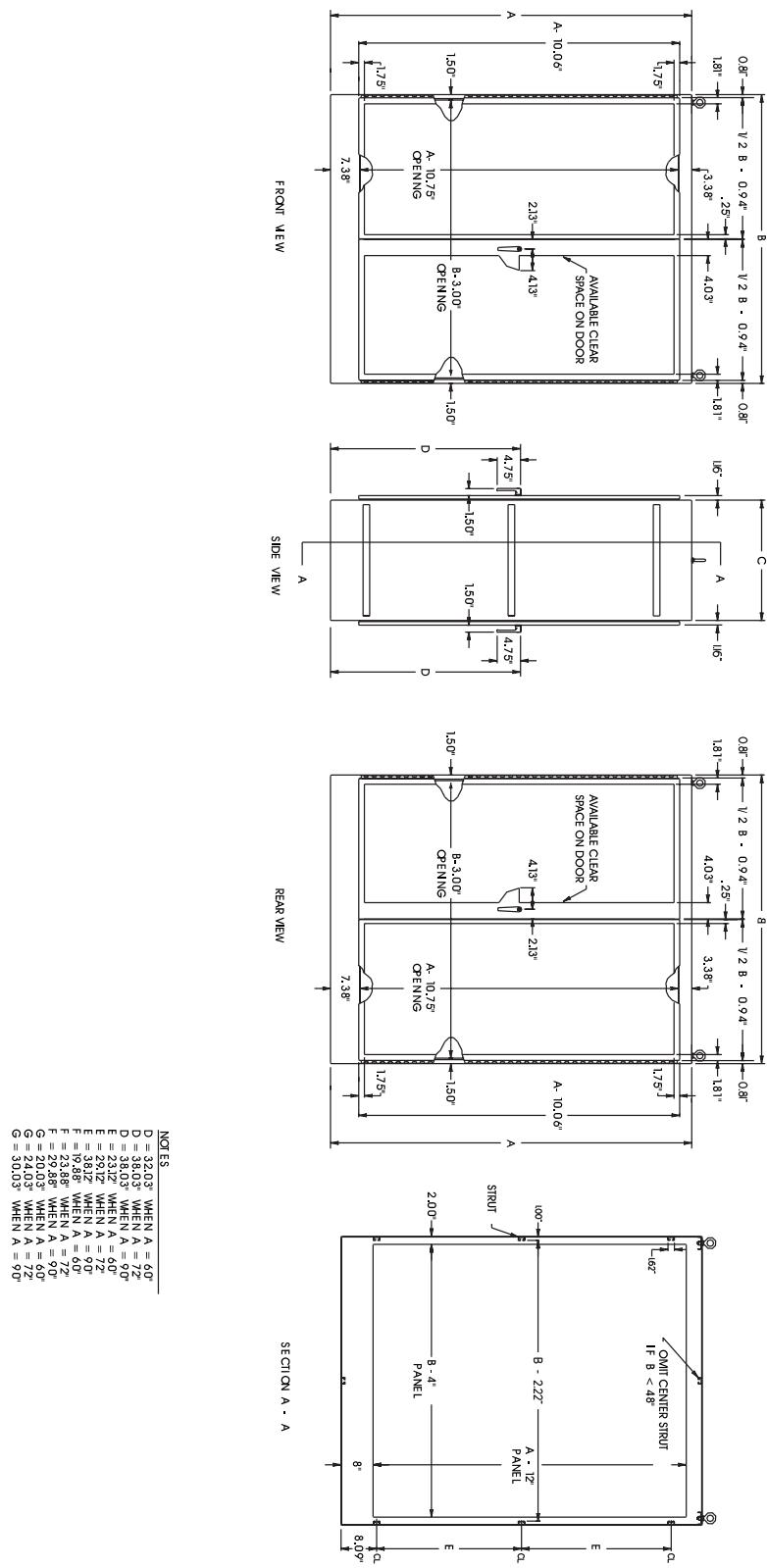
Enclosure Catalog Number	304 Stainless Steel Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Gauge	Eye Bolts	'E" Dimension	
		A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)			(inch)	(mm)
E5-604818DA	E5-604818DA-SS	60.06 X 48.06 X 18.06	1524 X 1219 X 457	300	E5-60P48F	48.00 X 44.00	1219 X 1118	10	2	23.12	587
E5-604824DA	E5-604824DA-SS	60.06 X 48.06 X 24.06	1524 X 1219 X 610	339	E5-60P48F	48.00 X 44.00	1219 X 1118	10	2	23.12	587
E5-604836DA	E5-604836DA-SS	60.06 X 48.06 X 36.06	1524 X 1219 X 914	418	E5-60P48F	48.00 X 44.00	1219 X 1118	10	4	23.12	587
E5-606018DA	E5-606018DA-SS	60.06 X 60.06 X 18.06	1524 X 1524 X 457	358	E5-60P60F	48.00 X 56.00	1219 X 1422	10	2	23.12	587
E5-606024DA	E5-606024DA-SS	60.06 X 60.06 X 24.06	1524 X 1524 X 610	402	E5-60P60F	48.00 X 56.00	1219 X 1422	10	2	23.12	587
E5-606036DA	E5-606036DA-SS	60.06 X 60.06 X 36.06	1524 X 1524 X 914	489	E5-60P60F	48.00 X 56.00	1219 X 1422	10	4	23.12	587
E5-724818DA	E5-724818DA-SS	72.06 X 48.06 X 18.06	1829 X 1219 X 457	349	E5-72P48F	60.00 X 44.00	1524 X 1118	10	2	29.12	740
E5-724824DA	E5-724824DA-SS	72.06 X 48.06 X 24.06	1829 X 1219 X 610	393	E5-72P48F	60.00 X 44.00	1524 X 1118	10	2	29.12	740
E5-724836DA	E5-724836DA-SS	72.06 X 48.06 X 36.06	1829 X 1219 X 914	480	E5-72P48F	60.00 X 44.00	1524 X 1118	10	4	29.12	740
E5-726018DA	E5-726018DA-SS	72.06 X 60.06 X 18.06	1829 X 1524 X 457	415	E5-72P60F	60.00 X 56.00	1524 X 1422	10	2	29.12	740
E5-726024DA	E5-726024DA-SS	72.06 X 60.06 X 24.06	1829 X 1524 X 610	463	E5-72P60F	60.00 X 56.00	1524 X 1422	10	2	29.12	740
E5-726036DA	E5-726036DA-SS	72.06 X 60.06 X 36.06	1829 X 1524 X 914	560	E5-72P60F	60.00 X 56.00	1524 X 1422	10	4	29.12	740
E5-727218DA	E5-727218DA-SS	72.06 X 72.06 X 18.06	1829 X 1829 X 457	527	E5-72P72F	60.00 X 68.00	1524 X 1727	10	2	29.12	740
E5-727224DA	E5-727224DA-SS	72.06 X 72.06 X 24.06	1829 X 1829 X 610	579	E5-72P72F	60.00 X 68.00	1524 X 1727	10	2	29.12	740
E5-727236DA	E5-727236DA-SS	72.06 X 72.06 X 36.06	1829 X 1829 X 914	684	E5-72P72F	60.00 X 68.00	1524 X 1727	10	4	29.12	740
E5-904818DA	E5-904818DA-SS	90.06 X 48.06 X 18.06	2286 X 1219 X 457	460	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904820DA	E5-904820DA-SS	90.06 X 48.06 X 20.06	2286 X 1219 X 508	477	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904824DA	E5-904824DA-SS	90.06 X 48.06 X 24.06	2286 X 1219 X 610	511	E5-90P48F	78.00 X 44.00	1981 X 1118	10	2	38.12	968
E5-904836DA	E5-904836DA-SS	90.06 X 48.06 X 36.06	2286 X 1219 X 914	611	E5-90P48F	78.00 X 44.00	1981 X 1118	10	4	38.12	968
E5-906018DA	E5-906018DA-SS	90.06 X 60.06 X 18.06	2286 X 1524 X 457	549	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906020DA	E5-906020DA-SS	90.06 X 60.06 X 20.06	2286 X 1524 X 508	567	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906024DA	E5-906024DA-SS	90.06 X 60.06 X 24.06	2286 X 1524 X 610	603	E5-90P60F	78.00 X 56.00	1981 X 1422	10	2	38.12	968
E5-906036DA	E5-906036DA-SS	90.06 X 60.06 X 36.06	2286 X 1524 X 914	713	E5-90P60F	78.00 X 56.00	1981 X 1422	10	4	38.12	968
E5-907218DA	E5-907218DA-SS	90.06 X 72.06 X 18.06	2286 X 1829 X 457	638	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907220DA	E5-907220DA-SS	90.06 X 72.06 X 20.06	2286 X 1829 X 508	658	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907224DA	E5-907224DA-SS	90.06 X 72.06 X 24.06	2286 X 1829 X 610	697	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968
E5-907236DA	E5-907236DA-SS	90.06 X 72.06 X 36.06	2286 X 1829 X 914	815	E5-90P72F	78.00 X 68.00	1981 X 1727	10	4	38.12	968

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

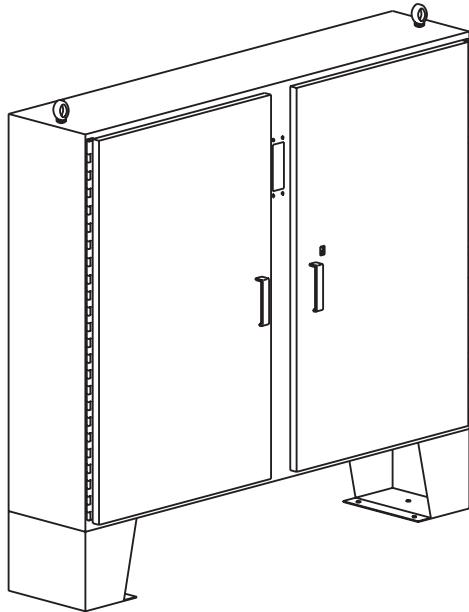
NEMA 12 Freestanding Enclosures

Two-Door Dual-Access Freestanding Enclosures



"A" dimension is hinged side.

NEMA I2 Two-Door Floormounted Disconnect



Two-Door Center Post Disconnect Enclosure



Two-Door Center Right Flange Disconnect Enclosure

Application

EMF NEMA I2 two-door floormounted enclosures for flange mounted disconnects are designed to house the following disconnect switches and circuit breakers:

- **Allen Bradley:** 1494F Flange-mounted disconnect switches, 1494D Flange-mounted operators for circuit breakers; 1494V Variable depth flange operated disconnect switches and circuit breaker mechanisms.
- **Cutler Hammer/Westinghouse:** Type C361 Disconnect switches and operators; Type C371 circuit breakers; Type SM safety handle mechanisms and Flex Shaft™ handle operators.
- **General Electric:** Disconnect switches and circuit breakers used with STDA variable-depth safety handle mechanisms and Spectra Flex™ cable operators.
- **Square D Class:** 9422 Flange-mounted variable depth operating mechanisms.
- **I-T-E:** Max-Flex™ flange mounted variable depth safety handle mechanism.
Will not receive class 9422 bracket mounted disconnect devices, Class 9422TGI, or TG2 devices.

Construction

- 10 ga. steel
- Continuously welded seams
- Removable center posts
- Heavy gauge continuous hinges
- Lifting eyes
- Heavy duty 3-point, padlocking latch system
- Universal disconnect cut out
- 15 inch floor stands
- Fluorescent light mounting strut
- Oil-resistant gasket
- Gasket retainers
- Collar studs for mounting panels
- Defeater mechanism on master door
- Mechanical interlock
- Panel supports
- UL listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

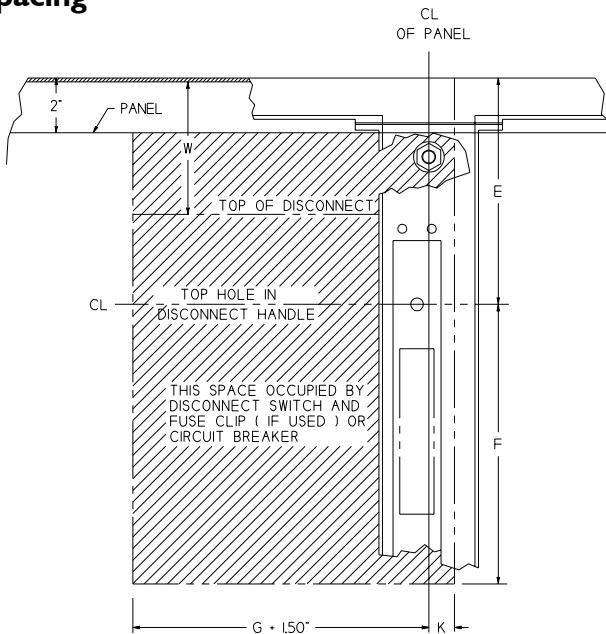
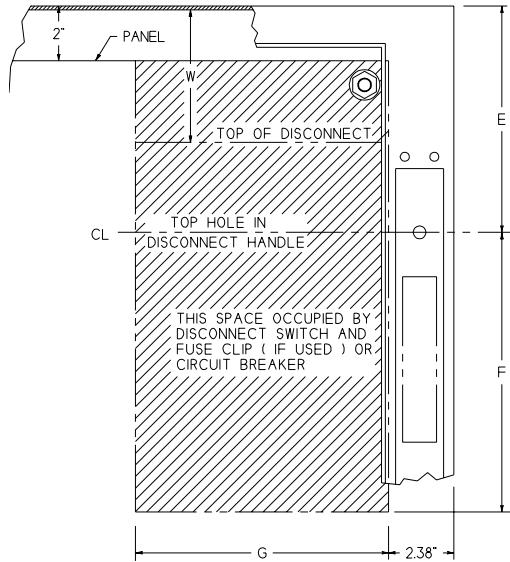
- Panels
- Window kits
- Operator adapters
- Blank adapters
- Print pocket
- Cooling fans
- Air Conditioners
- Lighting Kits
- Electric Heaters

Modifications

- Special sizes
- Cutouts
- Knockouts
- Aluminum
- Galvanized metal
- Special paints
- Different leg sizes
- Louvers
- Stainless steel
- Component installation

NEMA 12 Two-Door Floormounted Disconnect

Disconnect Spacing



Disconnect, breaker, and handle spacing varies on the type and brand of mechanism used. Please use the above diagrams as a location reference and consult various catalog bulletins for exact dimensions.

W=Wiring space as allowed by the National Electrical Code.

E=Distance to center top mounting hole of adapter plate.

F=Distance from top mounting hole to bottom of disconnect.

G=Max. width of disconnect switch.

K=Distance from center line of panel to inside width of disconnect.

Operator Adaptors

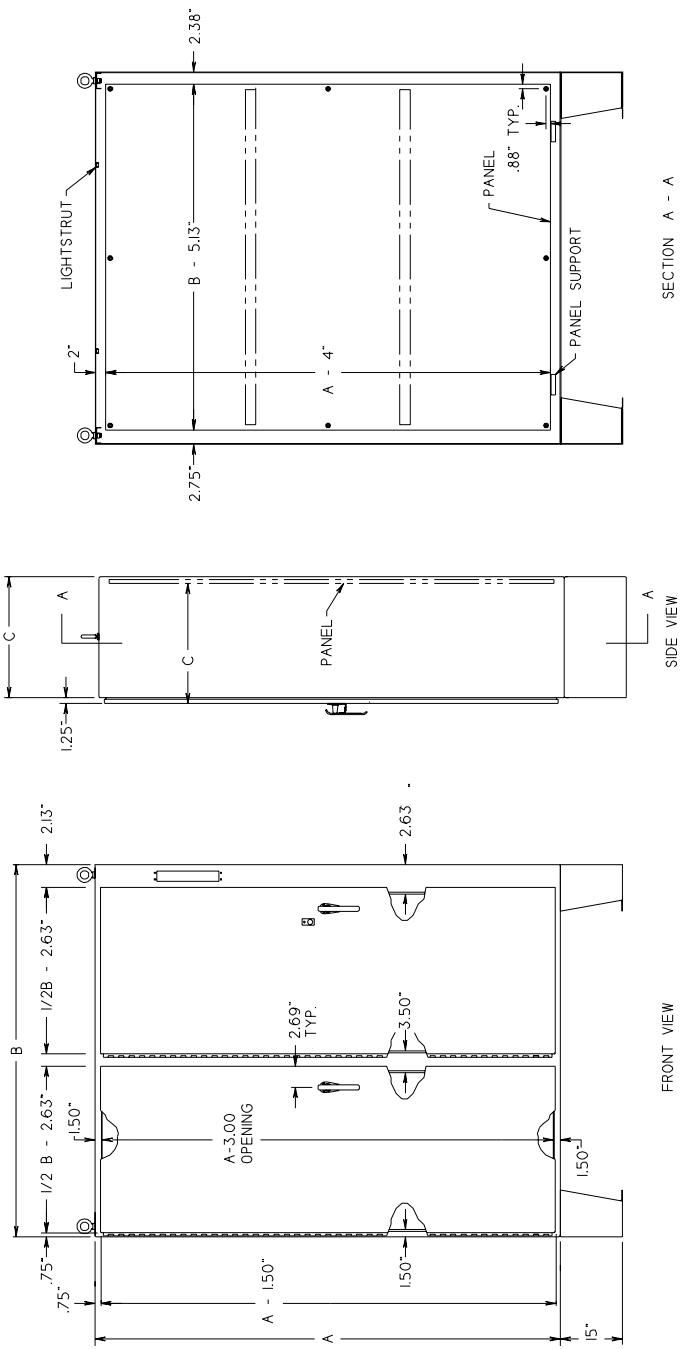
Enclosure Catalog Number	Size A x B x C	Shipping Weight
E15-31AB	Allen Bradley	6
E15-31ABV	Allen Bradley	2
E15-31CH	Cutler-Hammer	6
E15-31GE	General Electric	2
E15-31SD	Square D	2
E15-31WH	Westinghouse	2
E15-31WHAMT	Westinghouse AMT	2

Note: Consult factory for installation charges

Any custom size at any quantity is available for this enclosure model.

NEMA 12 Two-Door Floormounted Disconnect

Two-Door Floor-mounted Disconnect Enclosures



Two-door for Disconnects on Right Flange

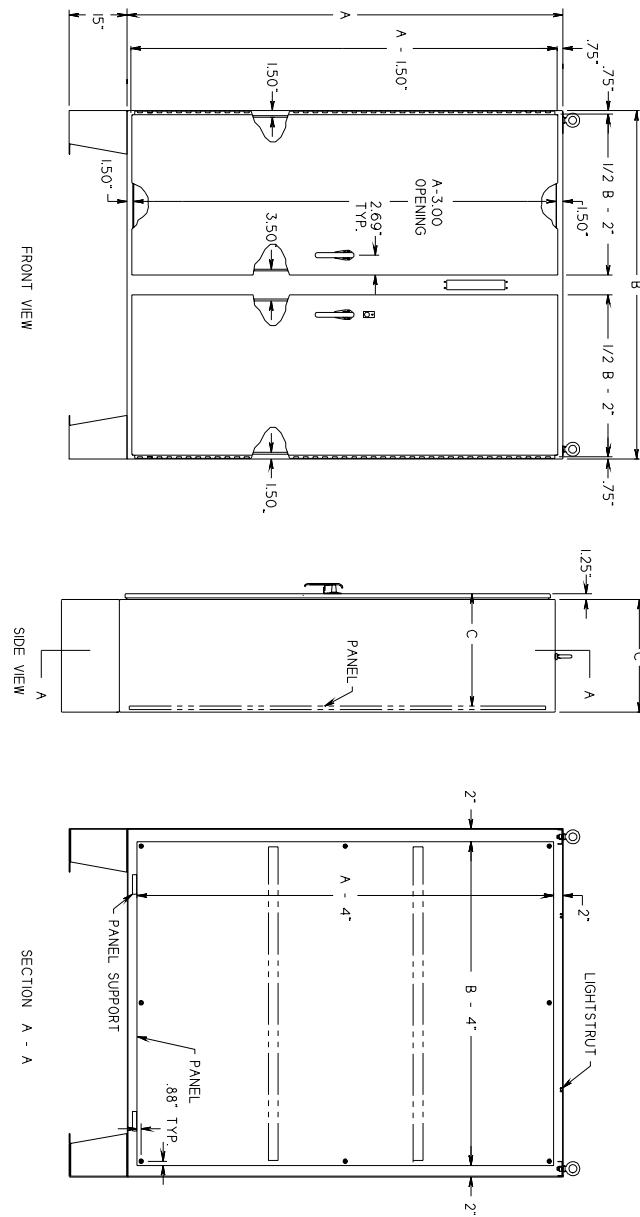
Enclosure Catalog Number	Size Ax Bx C	Shipping Weight
E-604912RF	60-1/8 x49-1/8 x12-1/8	465
E-606112RF	60-1/8 x61-1/8 x12-1/8	535
E-726112RF	72-1/8 x61-1/8 x12-1/8	665
E-727312RF	72-1/8 x73-1/8 x12-1/8	691
E-604918RF	60-1/8 x49-1/8 x18-1/8	535
E-606118RF	60-1/8 x61-1/8 x18-1/8	611
E-726118RF	72-1/8 x61-1/8 x18-1/8	748
E-727318RF	72-1/8 x73-1/8 x18-1/8	776

Any custom size or quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 12 Two-Door Floormounted Disconnect

Two-Door Floormounted Disconnect Enclosures



"A" dimension is hinged side.

Any custom size at any quantity is available for this enclosure model.

Two-door for Disconnects on Central Post

Enclosure Catalog Number	Size *A x B x C	Shipping Weight
E-604812CPDC	60-1/8 x 48-1/8 x 12-1/8	458
E-606012CPDC	60-1/8 x 60-1/8 x 12-1/8	495
E-726012CPDC	72-1/8 x 60-1/8 x 12-1/8	593
E-727212CPDC	72-1/8 x 72-1/8 x 12-1/8	750
E-727218CPDC	72-1/8 x 72-1/8 x 18-1/8	815

NEMA 12 Two-door Floormount Enclosures



NEMA 12 Painted Two-Door Floormount Enclosure

Application

EMF NEMA 12 two-door floormounted enclosures are designed to house controls, drive assemblies, disconnects through the door, and other electronic and electrical assemblies.



NEMA 12 Stainless Two-Door Floormount Enclosure

Construction

- 12 ga. steel or 304 stainless steel
- Continuously welded seams
- Doors continuously hinged
- Lifting eyes
- Gasketed doors
- 12" legs
- Collar studs for back panel
- 3-pt. locking latch
- UL Listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces. No. 3 brushed & blended finish for stainless steel.

Accessories

See General Accessories Index page 151.

- Panels
- Window Kits
- Louvers
- Print Pocket

Modifications

- Special Paint
- Knockouts/Holes
- Special Sizes
- Aluminum, Galvanized
- Special Latching

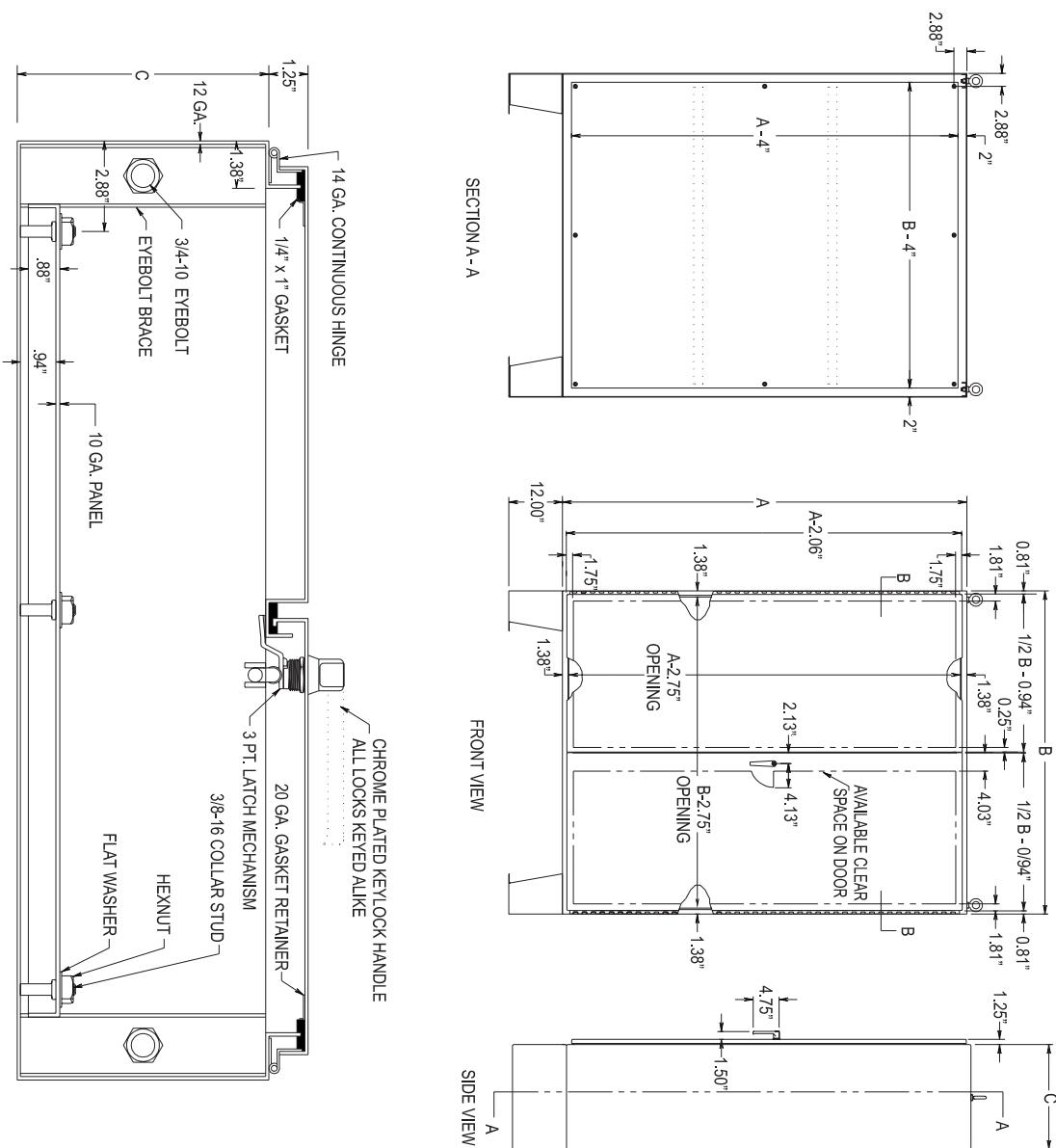
Enclosure Catalog Numbers	304 SS Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Guage
		A x B x C (inch)	A x B X C (mm)			A x B (inch)	A x B (mm)	
E-604808	E-604808SSN12	60.00 X 48.00 X 8.00	1524 X 1219 X 203	269	E-6048P	56.00 X 44.00	1422 X 1118	10
E-604810	E-604810SSN12	60.00 X 48.00 X 10.00	1524 X 1219 X 256	285	E-6048P	56.00 X 44.00	1422 X 1118	10
E-604812	E-604812SSN12	60.00 X 48.00 X 12.00	1524 X 1219 X 306	301	E-6048P	56.00 X 44.00	1422 X 1118	10
E-604816	E-604816SSN12	60.00 X 48.00 X 16.00	1524 X 1219 X 408	336	E-6048P	56.00 X 44.00	1422 X 1118	10
E-604820	E-604820SSN12	60.00 X 48.00 X 20.00	1524 X 1219 X 510	367	E-6048P	56.00 X 44.00	1422 X 1118	10
E-604824	E-604824SSN12	60.00 X 48.00 X 24.00	1524 X 1219 X 611	401	E-6048P	56.00 X 44.00	1422 X 1118	10
E-606008	E-606008SSN12	60.00 X 60.00 X 8.00	1524 X 1524 X 203	319	E-6060P	56.00 X 56.00	1422 X 1422	10
E-606010	E-606010SSN12	60.00 X 60.00 X 10.00	1524 X 1524 X 256	336	E-6060P	56.00 X 56.00	1422 X 1422	10
E-606012	E-606012SSN12	60.00 X 60.00 X 12.00	1524 X 1524 X 306	354	E-6060P	56.00 X 56.00	1422 X 1422	10
E-606016	E-606016SSN12	60.00 X 60.00 X 16.00	1524 X 1524 X 408	390	E-6060P	56.00 X 56.00	1422 X 1422	10
E-606020	E-606020SSN12	60.00 X 60.00 X 20.00	1524 X 1524 X 510	426	E-6060P	56.00 X 56.00	1422 X 1422	10
E-606024	E-606024SSN12	60.00 X 60.00 X 24.00	1524 X 1524 X 611	463	E-6060P	56.00 X 56.00	1422 X 1422	10
E-726008	E-726008SSN12	72.00 X 60.00 X 8.00	1829 X 1524 X 203	369	E-7260P	68.00 X 56.00	1727 X 1422	10
E-726010	E-726010SSN12	72.00 X 60.00 X 10.00	1829 X 1524 X 256	388	E-7260P	68.00 X 56.00	1727 X 1422	10
E-726012	E-726012SSN12	72.00 X 60.00 X 12.00	1829 X 1524 X 306	407	E-7260P	68.00 X 56.00	1727 X 1422	10
E-726016	E-726016SSN12	72.00 X 60.00 X 16.00	1829 X 1524 X 408	446	E-7260P	68.00 X 56.00	1727 X 1422	10
E-726020	E-726020SSN12	72.00 X 60.00 X 20.00	1829 X 1524 X 510	485	E-7260P	68.00 X 56.00	1727 X 1422	10
E-726024	E-726024SSN12	72.00 X 60.00 X 24.00	1829 X 1524 X 611	524	E-7260P	68.00 X 56.00	1727 X 1422	10
E-727208	E-727208SSN12	72.00 X 72.00 X 8.00	1829 X 1829 X 203	473	E-7272P	68.00 X 68.00	1727 X 1727	10
E-727210	E-727210SSN12	72.00 X 72.00 X 10.00	1829 X 1829 X 256	494	E-7272P	68.00 X 68.00	1727 X 1727	10
E-727212	E-727212SSN12	72.00 X 72.00 X 12.00	1829 X 1829 X 306	514	E-7272P	68.00 X 68.00	1727 X 1727	10
E-727216	E-727216SSN12	72.00 X 72.00 X 16.00	1829 X 1829 X 408	556	E-7272P	68.00 X 68.00	1727 X 1727	10
E-727220	E-727220SSN12	72.00 X 72.00 X 20.00	1829 X 1829 X 510	598	E-7272P	68.00 X 68.00	1727 X 1727	10
E-727224	E-727224SSN12	72.00 X 72.00 X 24.00	1829 X 1829 X 611	640	E-7272P	68.00 X 68.00	1727 X 1727	10

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

NEMA 12 Two-Door Floormounted Enclosures

Two-Door Floormounted Enclosures

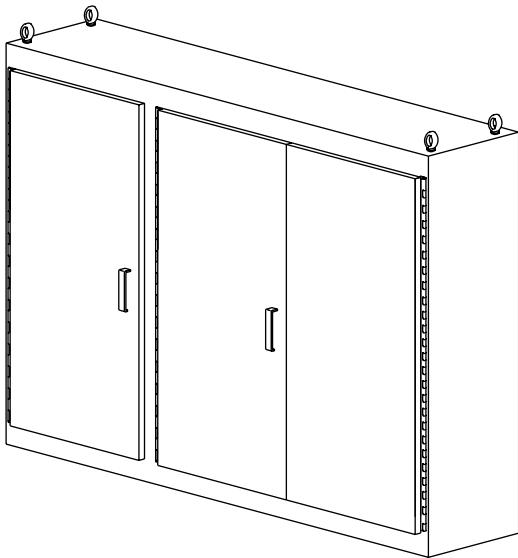


"A" dimension is hinged side.

NOTE: CAT. NO. E-544208 IS MADE OF 14 GA. AND HAS ROLLED LIP ON THE DOOR FLANGE AND AROUND THE ENCLOSURE OPENING SIMILAR TO SINGLE DOOR WALL MOUNTED ENCLOSURE.

SECTION B-B

NEMA I2 Multi-Door Freestanding Enclosures



Application

Multi-Door enclosures are designed to house electrical and electronic controls, instruments and components in large control centers, and provide protection from dust, dirt, oil, and water.

Construction

- 10 ga. steel-strong rigid construction
- Continuously welded seams
- Heavy duty eyebolts, reinforced for easy lifting
- Stiffeners welded to backs to maintain plumb and flatness while increasing rigidity
- Gasketed doors
- 3-point padlocking handles
- 10 ga. painted panels mounted on studs
- UL Listed
- Compliance with NEMA I2 requirements

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

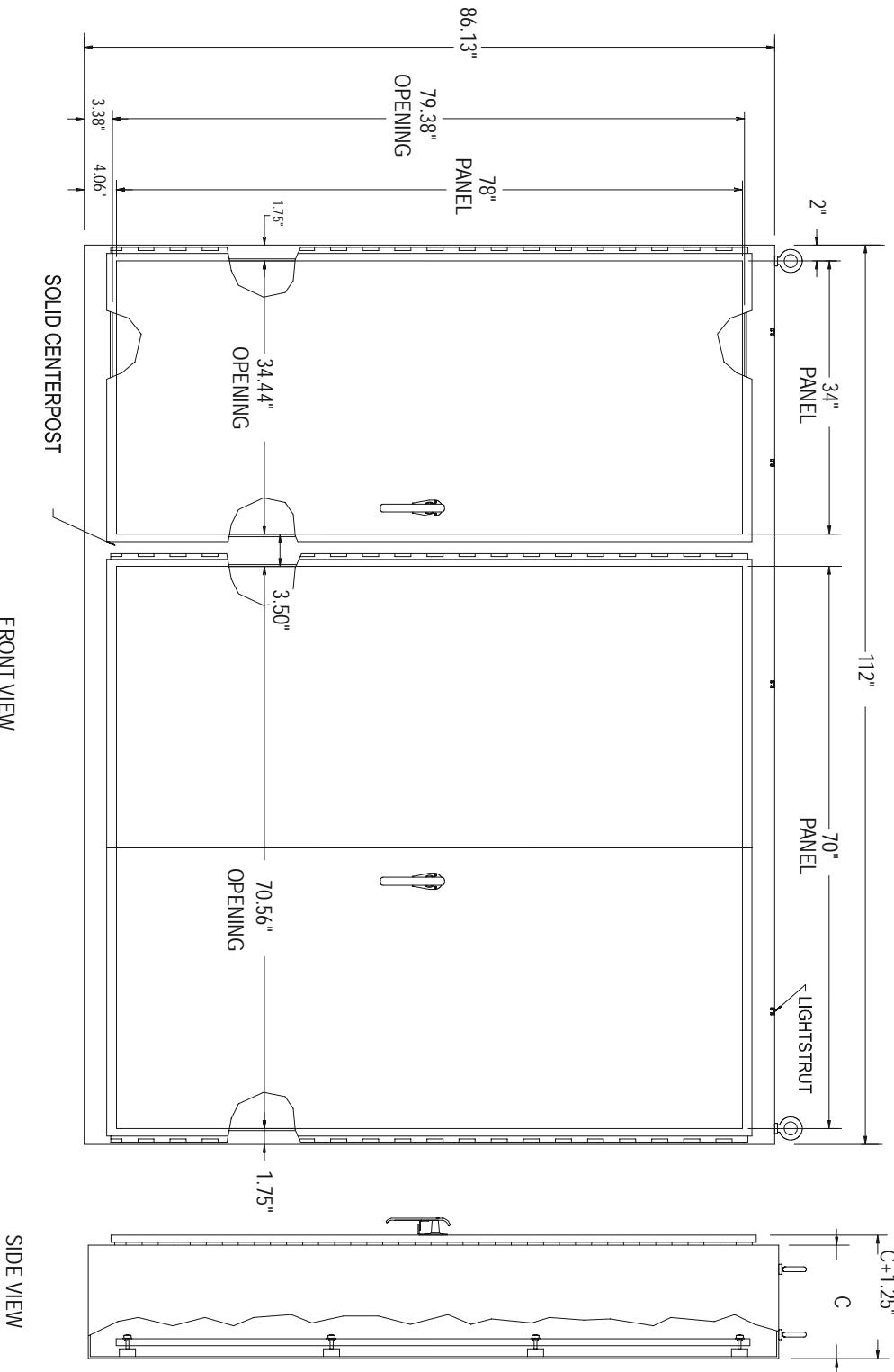
- Touch-up paint
- Louver kits
- Window kits
- Drip shield kits
- Floor stand legs
- Print pockets

Modifications

- Holes
- Hubs
- Louvers
- Cutouts
- Special finishes
- Stainless, aluminum, galvanized
- Odd sizes
- Interlocking mechanisms

NEMA 12 Multi-Door Freestanding Enclosures

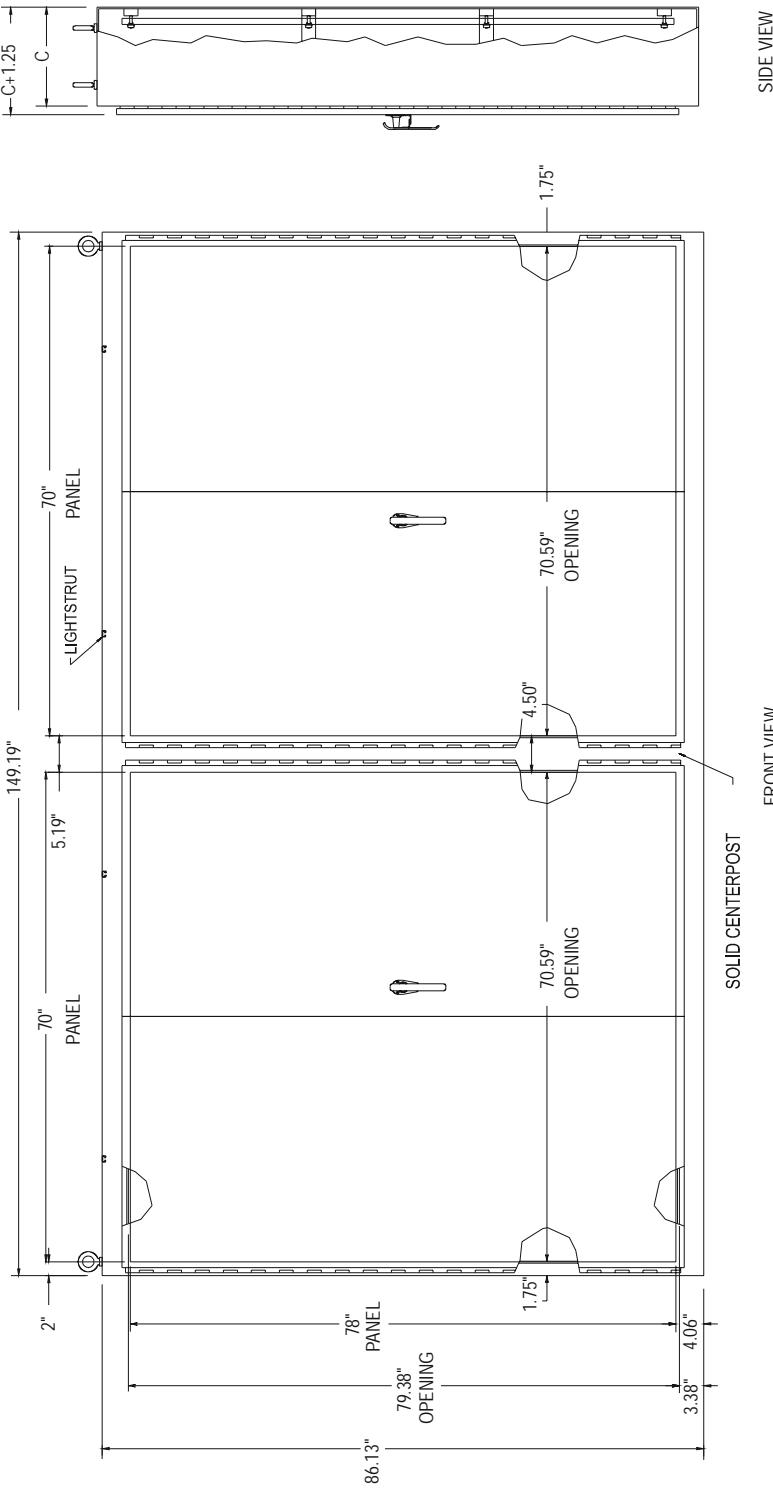
NEMA 12 Three-Door Freestanding Enclosures



"A" dimension is hinged side.

NEMA 12 Multi-Door Freestanding Enclosures

NEMA 12 Four-Door Freestanding Enclosures



SIDE VIEW

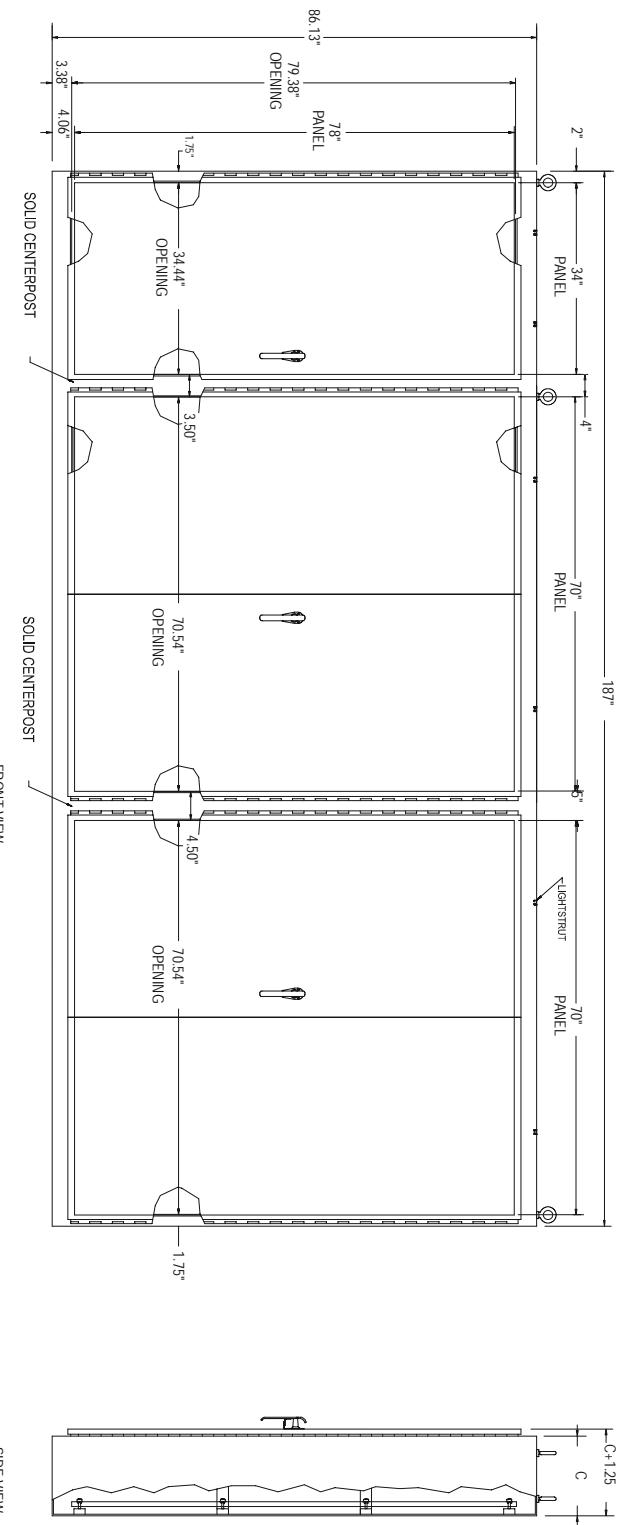
FRONT VIEW

Enclosure Catalog Number	304 SS Enclosure Catalog Number	Enclosure Size		Panel Size
		A x B x C (inch)	A x B x C (mm)	
E-86M4E	E-86M4ESS	86.12 X 149.00 X 14.12	2187 X 3785 X 359	2270 2 78.00 X 70.00 1981 X 1778
E-86M4E220	E-86M4E20SS	86.12 X 149.00 X 20.12	2187 X 3785 X 511	2270 2 78.00 X 70.00 1981 X 1778

Any custom size at any quantity is available for this enclosure model.

NEMA 12 Multi-Door Freestanding Enclosures

NEMA 12 Five-Door Freestanding Enclosures

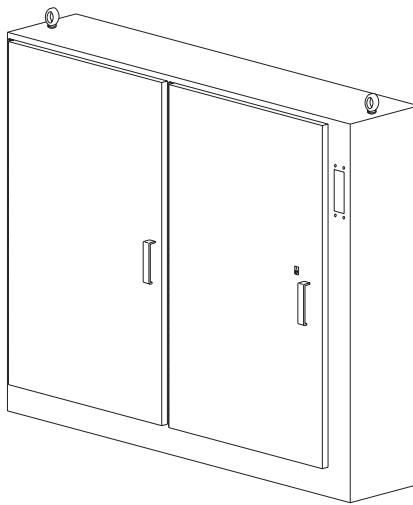
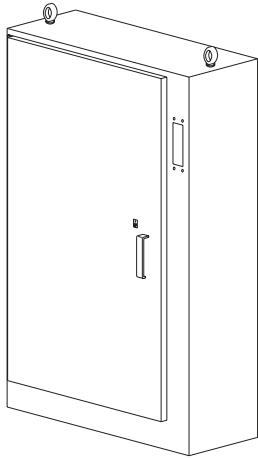


"A" dimension is hinged side.

Any custom size at any quantity is available for this enclosure model.

Enclosure Catalog Number	304 SS Enclosure Size		Panel Size							
	A x B x C (inch)	A x B x C (mm)	QTY Panel	QTY Panel						
	A x B (inch)	A x B (mm)	A x B (inch)	A x B (mm)						
E-86M5E	E-86M5E5	86.12 X 187.00 X 14.12	2187 X 4750 X 358	2900	2	78.00 X 70.00	1981 X 1778	1	78.00 X 34.00	1981 X 864
E-86M5E20	E-86M5E20SS	86.12 X 187.00 X 20.12	2187 X 4750 X 511	2900	2	78.00 X 70.00	1981 X 1778	1	78.00 X 34.00	1981 X 864

NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures



Application

EMF Multi-door heavy duty NEMA 12 freestanding disconnect enclosures are designed to house the following disconnect switches and circuit breakers:

- **Allen Bradley:** 1494F flange-mounted disconnect switches; 1494D flange-mounted operators for circuit breakers; 1494V variable depth flange operated disconnect switches and circuit breaker mechanisms.
- **Cutler Hammer:** C360 disconnect switches and operators; C370 circuit breakers and operators.
- **General Electric:** Disconnect switches and circuit breakers used with TDF variable-depth safety handle mechanisms and TDF bracket mounted assemblies.
- **Square D:** Class 9422 flange-mounted variable depth operating mechanisms. Will not receive class 9422 bracket mounted disconnect devices.
- **Westinghouse:** Disconnect switches and breakers used with type SM safety handle mechanisms and type AMT handle mechanisms.

Construction

- 10 ga. steel
- Continuously welded seams
- Removable centerposts
- Oil-resistant gasket
- Removable 10 ga. steel panels mounted on Collar studs
- Mechanical interlocks
- Panel supports
- Bottom mounting holes for securing to surface
- Body stiffeners
- Continuous heavy gauge hinges
- Gasket retainers
- Lifting eyes
- Master door on right side with defeater mechanism.
- Universal cutout on right flange
- 3-point padlocking mechanism
- UL Listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

- Operator adapters
- Window kits
- Blank adapter plates
- Floor stand kits
- Print pockets

Modifications

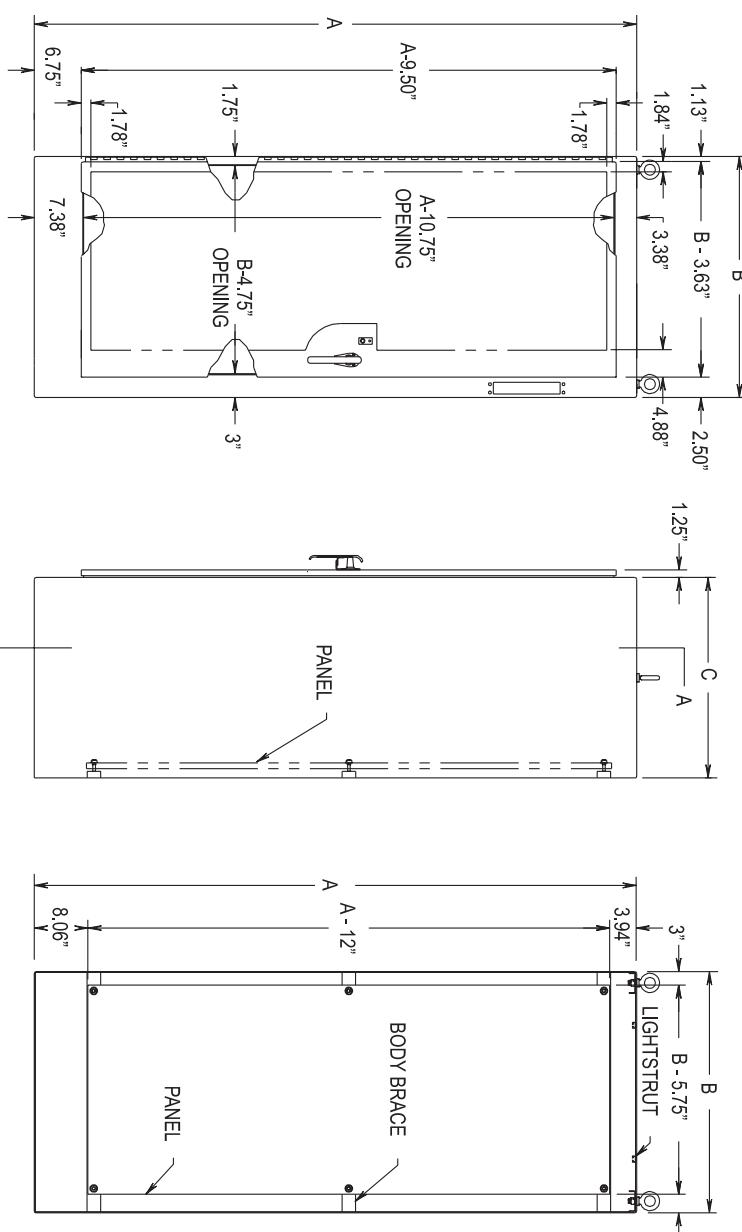
- Holes
- Hubs
- Special Paints
- Louvers
- Cutouts
- Odd sizes
- Special latches
- Aluminum, galvanized steel





NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures

NEMA 12 Heavy Duty Single-Door Freestanding Disconnect Enclosures



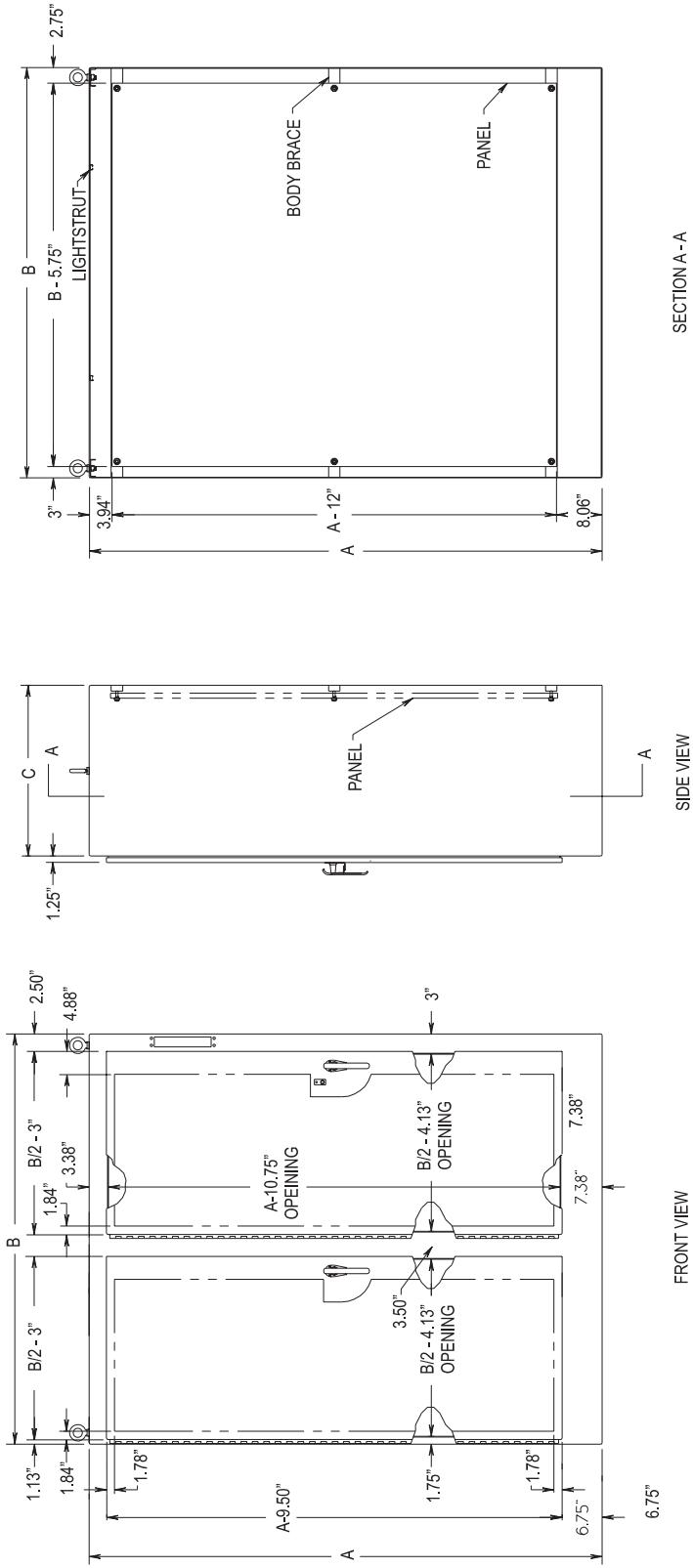
"A" dimension is hinged side.

Any custom size at any quantity is available for this enclosure model.

Any custom size at any quantity is available for this enclosure model.

NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures

NEMA 12 Heavy Duty Two-Door Freestanding Disconnect Enclosures



"A" dimension is hinged side.

Stainless Steel Two-door		Size A x B x C	Shipping Weight	Shipping Weight
Catalog Number				
E-72XN5418SS	72-1/8 x 53-3/4 x 18-1/8	72-1/8 x 53-3/4 x 18-1/8	750	750
E-72XN6618SS*	72-1/8 x 65-3/4 x 18-1/8	72-1/8 x 65-3/4 x 18-1/8	900	900
E-72XN7818SS*	72-1/8 x 77-3/4 x 18-1/8	72-1/8 x 77-3/4 x 18-1/8	1050	1050
E-84XN7818SS*	84-1/8 x 77-3/4 x 18-1/8	84-1/8 x 77-3/4 x 18-1/8	1200	1200
E-90XN7824SS*	90-1/8 x 77-3/4 x 24-1/8	90-1/8 x 77-3/4 x 24-1/8	1392	1392

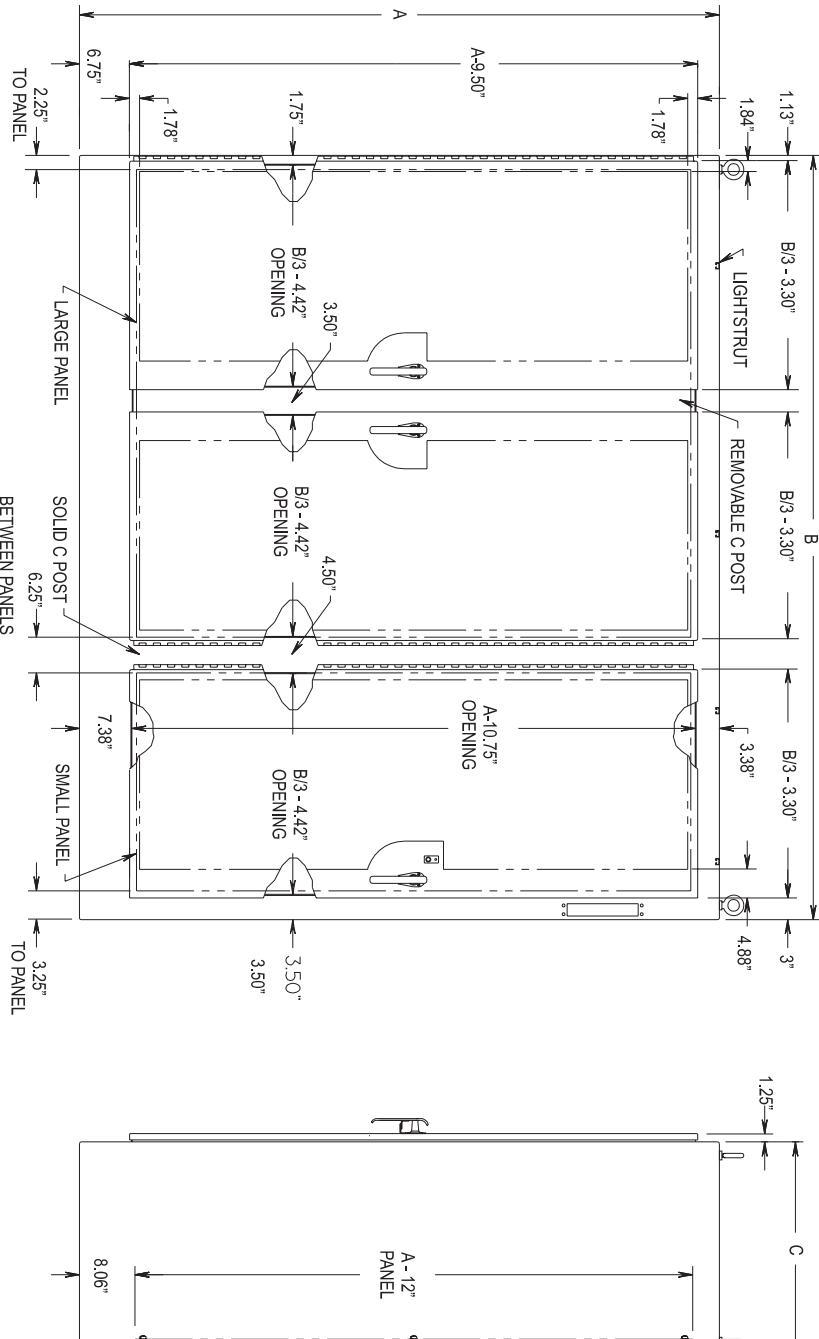
*Back is grained to #3 finish.

Any custom size at any quantity is available for this enclosure model.



NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures

NEMA 12 Heavy Duty Three-Door Freestanding Disconnect Enclosures



"A" dimension is hinged side.

Catalog Number	Size A x B x C	Panel Sizes		Shipping Weight
		Large	Small	
E-72XW3EQ18	72-1/8 x 99-1/2 x 18-1/8	60 x 60	60 x 27.75	1330
E-72XW3EW18	72-1/8 x 117-1/2 x 18-1/8	60 x 72	60 x 33.75	1540
E-84XW3EW18	84-1/8 x 117-1/2 x 18-1/8	72 x 72	72 x 33.75	1750
E-90XW3EW24	90-1/8 x 117-1/2 x 24-1/8	78 x 72	78 x 33.75	2018

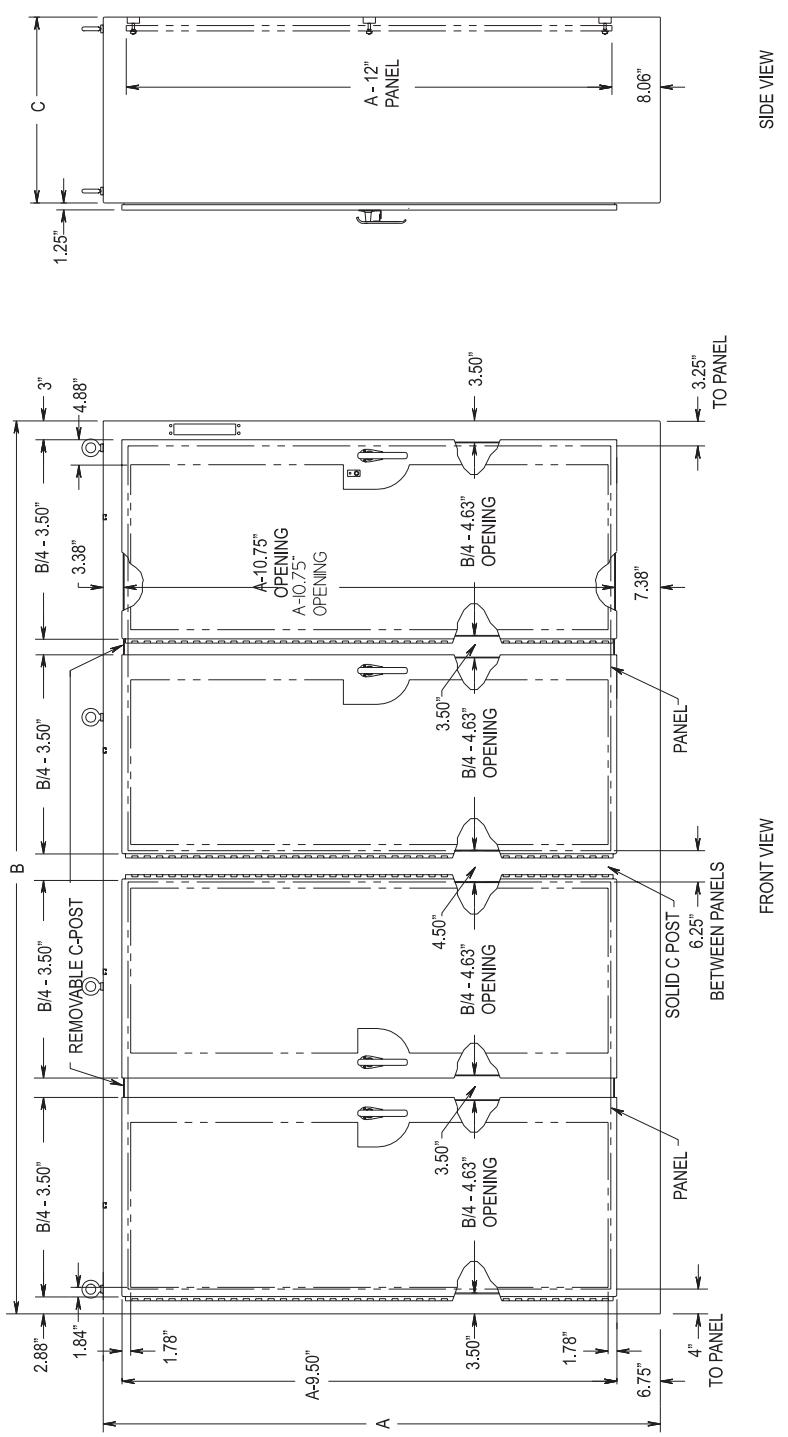
*Back is grained to #3 finish.

Any custom size at any quantity is available for this enclosure model.

Any custom size at any quantity is available for this enclosure model.

NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures

NEMA I2 Heavy Duty Four-Door Freestanding Disconnect Enclosures



"A" dimension is hinged side.

Catalog Number	Size A x B x C	Panel Sizes		Shipping Weight
		Large	Small	
E-84X/M4EW/18	84-1/8 x 157-1/2 x 18-1/8	72 x 72	None	2070

Any student signs at any orientation is available for this audience model.

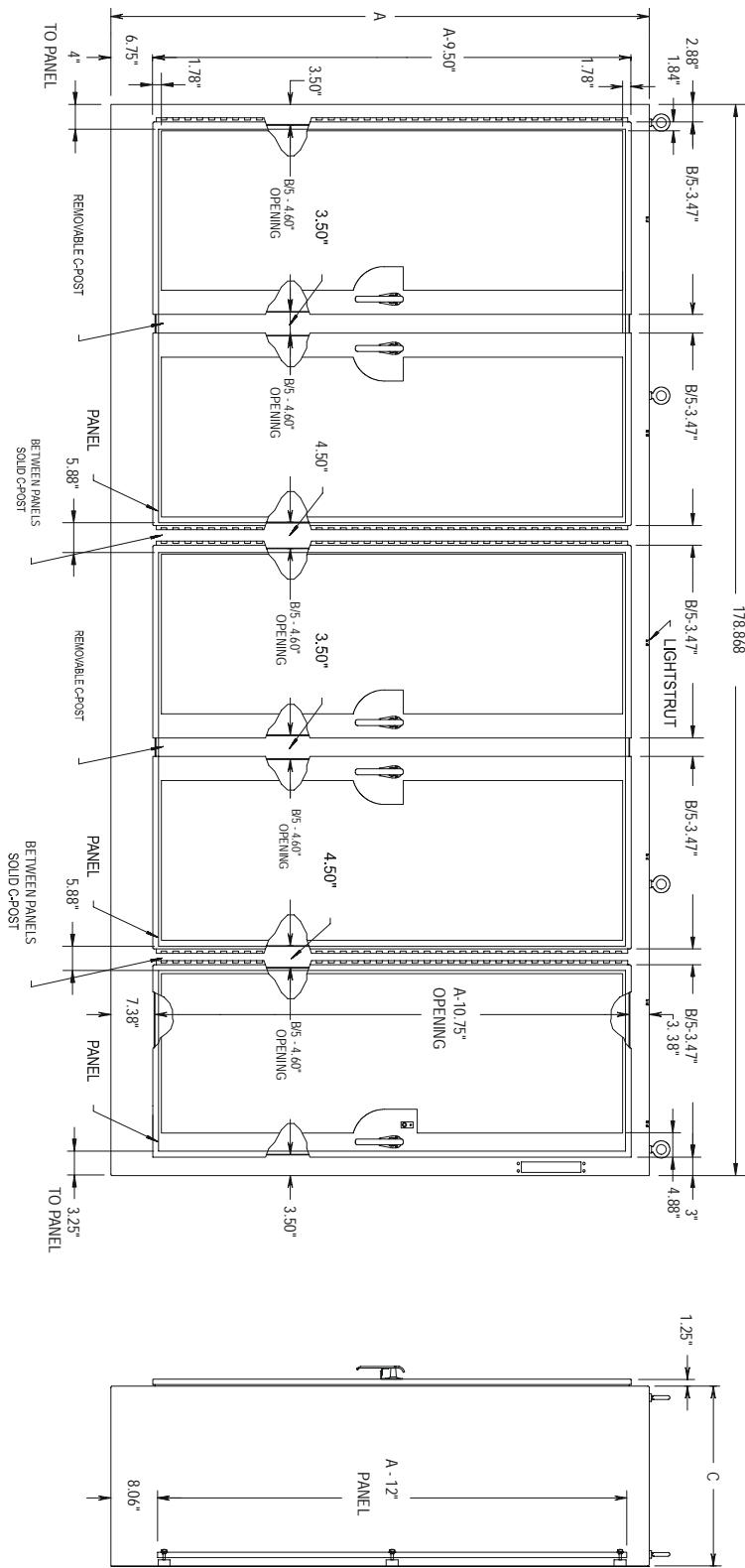
Any custom size or quantity is available for this enclosure model

Stainless Steel Four-Door			
Catalog Number	Size A x B x C	Shipping Weight	
E-84XHM4EW18SS	84-1/8 x 157-1/2 x 18-1/8	2070	

* Back is grained to #3 finish.

NEMA 12 Heavy Duty Multi-door Freestanding Disconnect Enclosures

NEMA 12 Heavy Duty Five-Door Freestanding Disconnect Enclosures



"A" dimension is hinged side.

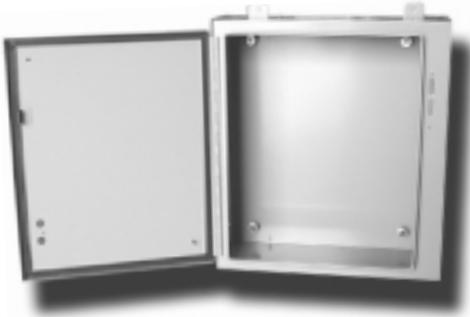
Catalog Number	Size A x B x C	Shipping Weight
E-84X\5EW18	84-1/8 x 196-3/4 x 18-1/8	2070

Catalog Number	Size A x B x C	Shipping Weight
E-84XM5EW18SS	84-1/8 x 196-3/4 x 18-1/8	2070

Any custom size at any quantity is available for this enclosure model.

* Back is grained to #3 finish.

NEMA I2 Single-Door Disconnect Enclosures

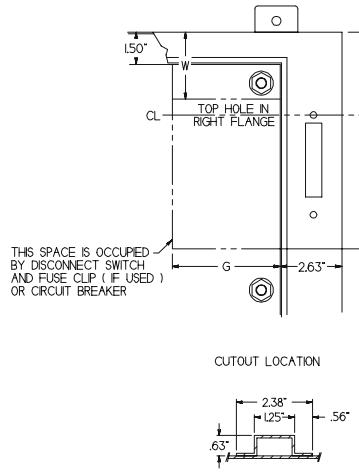


Application

EMF NEMA I2 single-door wallmounted disconnect enclosures are designed to house the following disconnect switches and circuit breakers:

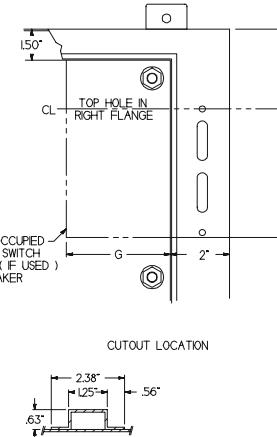
- **General Electric:** type enclosures house General Electric disconnect switches and circuit breakers using TDF variable-depth safety handles.
- **Allen Bradley:** type enclosures house Allen-Bradley Bulletin 1494V disconnect switches with flange mounted variable depth operating mechanisms, and Bulletin 1494V flange mounted variable depth operating mechanisms for circuit breakers.

- **Cutler Hammer:** type enclosures house Cutler-Hammer disconnect switches and circuit breakers for catalog C360 disconnect switches and operating mechanisms and catalog C370 circuit breakers and circuit breaker operating mechanisms.
- **Westinghouse:** type enclosures house Westinghouse disconnect switches and circuit breakers using type SM safety handle mechanisms and type MD safety disconnect switches.
- **Square D:** type enclosures house Square D disconnect switches and circuit breakers using Square D class 9422 variable depth operating mechanisms.



DOOR & BODY BRACE SECTION

"M" IS 3" WHEN "B" IS 16" OR MORE
"M" IS 1.25" WHEN "B" IS LESS THAN 16"
OMIT BODY BRACE WHEN A & B < 30"
OMIT DOOR BRACE WHEN B < 32" EXCEPT
WHEN A x B IS 42" x 3.38"



DOOR & BODY BRACE SECTION

"M" IS 3" WHEN "B" IS 16" OR MORE
"M" IS 1.25" WHEN "B" IS LESS THAN 16"
OMIT BODY BRACE WHEN A & B < 30"
OMIT DOOR BRACE WHEN B < 32" EXCEPT
WHEN A x B IS 42" x 3.38"

Construction

- External mounting feet
- Latch connecting bar is furnished with enclosure
- Handle mechanism holes provided
- Continuously hinged door
- Oil-resistant gasket
- Disconnect cutout on right flange
- 14 ga. steel construction
- Pivot post and cover interlock bracket are welded in place where needed
- Continuously welded seams
- Gasket retainers
- UL Listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Floor stand kits
- Print pockets

Modifications

- Holes
- Knockouts
- Hubs
- Special Paints
- Louvers
- Cutouts
- Special sizes
- Special disconnect locations
- Stainless, aluminum, galvanized material

NEMA 12 Single-Door Disconnect Enclosures

NEMA 12 Painted Steel Single-Door Disconnect Enclosures

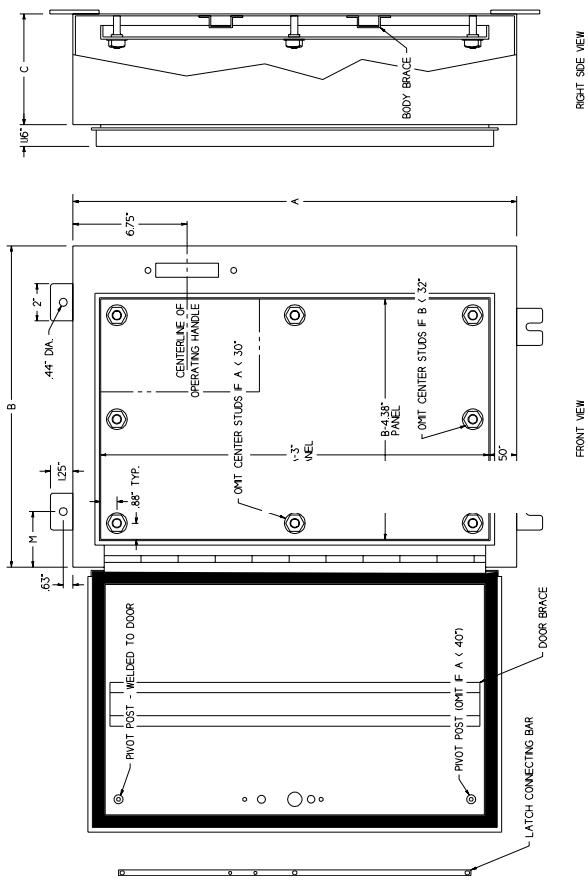
Enclosure Catalog Number	Enclosure Size		Enclosure Shipping Weight	Steel Panel Catalog Number	Panel Size		Panel Guage	Stiffners	
	A x B x C (inch)	A x B x C (mm)			A x B (inch)	A x B (mm)		Door	Body
E-202108DC	20.00 x 21.38 x 8.00	508 x 543 x 203	42	E-2020P	17 X 17	432 X 432	12	0	0
E-242108DC	24.00 x 21.38 x 8.00	610 x 543 x 203	48	E-2420P	21 X 17	533 X 432	12	0	0
E-242508DC	24.00 x 25.38 x 8.00	610 x 645 x 203	54	E-2424P	21 X 21	533 X 533	12	0	0
E-302108DC	30.00 x 21.38 x 8.00	762 x 543 x 203	58	E-3020P	27 X 17	686 X 432	12	0	0
E-302508DC	30.00 x 25.38 x 8.00	762 x 645 x 203	65	E-3024P	27 X 21	686 X 533	12	0	0
E-362508DC	36.00 x 25.38 x 8.00	914 x 645 x 203	76	E-3624P	33 X 21	838 X 533	12	0	0
E-363108DC	36.00 x 31.38 x 8.00	914 x 797 x 203	93	E-3630P	33 X 27	838 X 686	12	0	1
E-423108DC	42.00 x 31.38 x 8.00	1067 x 797 x 203	105	E-4230P	39 X 27	991 X 686	12	0	1
E-423708DC	42.00 x 37.38 x 8.00	1067 x 949 x 203	123	E-4236P	39 X 33	991 X 838	12	1	1
E-483708DC	48.00 x 37.38 x 8.00	1219 x 949 x 203	137	E-4836P	45 X 33	1143 X 838	12	1	1
E-603708DC	60.00 x 37.38 x 8.00	1524 x 949 x 203	165	E-6036P	57 X 33	1448 X 838	12	1	1
E-202110DC	20.00 x 21.38 x 10.00	508 x 543 x 254	46	E-2020P	17 X 17	432 X 432	12	0	0
E-242110DC	24.00 x 21.38 x 10.00	610 x 543 x 254	53	E-2420P	21 X 17	533 X 432	12	0	0
E-242510DC	24.00 x 25.38 x 10.00	610 x 645 x 254	60	E-2424P	21 X 21	533 X 533	12	0	0
E-302110DC	30.00 x 21.38 x 10.00	762 x 543 x 254	63	E-3020P	27 X 17	686 X 432	12	0	0
E-302510DC	30.00 x 25.38 x 10.00	762 x 645 x 254	71	E-3024P	27 X 21	686 X 533	12	0	0
E-362510DC	36.00 x 25.38 x 10.00	914 x 645 x 254	82	E-3624P	33 X 21	838 X 533	12	0	0
E-363110DC	36.00 x 31.38 x 10.00	914 x 797 x 254	100	E-3630P	33 X 27	838 X 686	12	0	1
E-423110DC	42.00 x 31.38 x 10.00	1067 x 797 x 254	112	E-4230P	39 X 27	991 X 686	12	0	1
E-423710DC	42.00 x 37.38 x 10.00	1067 x 949 x 254	132	E-4236P	39 X 33	991 X 838	12	1	1
E-483710DC	48.00 x 37.38 x 10.00	1219 x 949 x 254	146	E-4836P	45 X 33	1143 X 838	12	1	1
E-603710DC	60.00 x 37.38 x 10.00	1524 x 949 x 254	175	E-6036P	57 X 33	1448 X 838	12	1	1
E-302512DC	30.00 x 25.38 x 12.00	762 x 645 x 305	76	E-3024P	27 X 21	686 X 533	12	0	0
E-363112DC	36.00 x 31.38 x 12.00	914 x 797 x 305	106	E-3630P	33 X 27	838 X 686	12	0	1
E-423112DC	42.00 x 31.38 x 12.00	1067 x 797 x 305	125	E-4230P	39 X 27	991 X 686	12	0	1
E-423712DC	42.00 x 37.38 x 12.00	1067 x 949 x 305	138	E-4236P	39 X 33	991 X 838	12	1	1
E-483712DC	48.00 x 37.38 x 12.00	1219 x 949 x 305	153	E-4836P	45 X 33	1143 X 838	12	1	1
E-603712DC	60.00 x 37.38 x 12.00	1524 x 949 x 305	183	E-6036P	57 X 33	1448 X 838	12	1	1
E-363116DC	36.00 x 31.38 x 16.00	914 x 797 x 406	117	E-3630P	33 X 27	838 X 686	12	0	1
E-483716DC	48.00 x 37.38 x 16.00	1219 x 949 x 406	168	E-4836P	45 X 33	1143 X 838	12	1	1

Any custom size at any quantity is available for this enclosure model.



"A" dimension is hinged side.

NEMA 12 Single-Door Disconnect Enclosures



Notes:

- Large print pocket furnished if $A=30.00$.
- These Switches can be installed in 10, 12 and 16 inch deep enclosures only.
- The G dimension does not include space for auxiliary switches. See A-B instructions for additional space required.
- 200 AMP switches can be installed only in 12 inch deep enclosures that have provisions for 200 AMP switches.
- See Catalog No. A-46AB3812A2LP and A-60AB3812A2LP. E=8.06 for these enclosures.
- W=wiring space.
- E=3.84 when $C=8$.
- E=6.75 when $C=10$.
- E=9.50 when $C=12$ (except enclosures for 100 AMP switches)
- E=9.50 when $C=16$.
- E=8.06 when $C=12$ (for enclosures with 200 AMP switches)

"A" dimension is hinged side.



NEMA 12 Single-Door Disconnect Enclosures

Allen-Bradley 1494F Disconnect Switches

A-B Type No.	Switch Amp .Rating	Fuse Clip	Fuse Class	F	G
TN30	30A	No Fuse	-	4.62	6.25
NF30	30A	30A-250V	H-K-R	6.5	6.25
NF30	30A	60A-250V	H-K-R	7.25	6.25
NF30	30A	30A-600A	H-K-R	9.25	6.25
NF30	30A	60A-600V	H-K-R	9.75	6.25
NF30	30A	30A-600V	J	6.5	6.25
NF30	30A	60A-600V	J	6.62	6.25
N60	60A	No Fuse	-	4.62	6.25
NF60	60A	30A-600V	H-K-R	10.38	6.25
NF60	60A	60A-250V	H-K-R	8.38	6.25
NF60	60A	100A-250V	H-K-R	10.88	6.25
NF60	60A	60A-600V	H-K-R	10.88	6.25
NF60	60A	100A-600V	H-K-R	12.88	6.38
NF60	60A	60A-600V	J	7.75	6.25
NF60	60A	100A-600V	J	9.75	6.25
N100	100A	No Fuse	-	4.62	7
NF100	100A	100A-250V	H-K-R	11.38	7
NF100	100A	200A-250V	H-K-R	12.25	7.25
NF100	100A	100A-600V	H-K-R	13.38	7.12
NF100	100A	200A-600V	H-K-R	14.75	7.38
NF100	100A	100A-600V	J	10.12	7
NF100	100A	200A-600V	J	10.88	7.25
NF200	200A	No Fuse	-	7.12	10
NF200	200A	200A-250V	H-K-R	15	10
NF200	200A	400A-250V	H-K-R	16.56	10.38
NF200	200A	200A-600V	H-K-R	17.56	10
NF200	200A	400A-600V	H-K-R	19.56	10.62
NF200	200A	200A-600V	J	13.69	10
NF200	200A	400A-600V	J	15	10.25

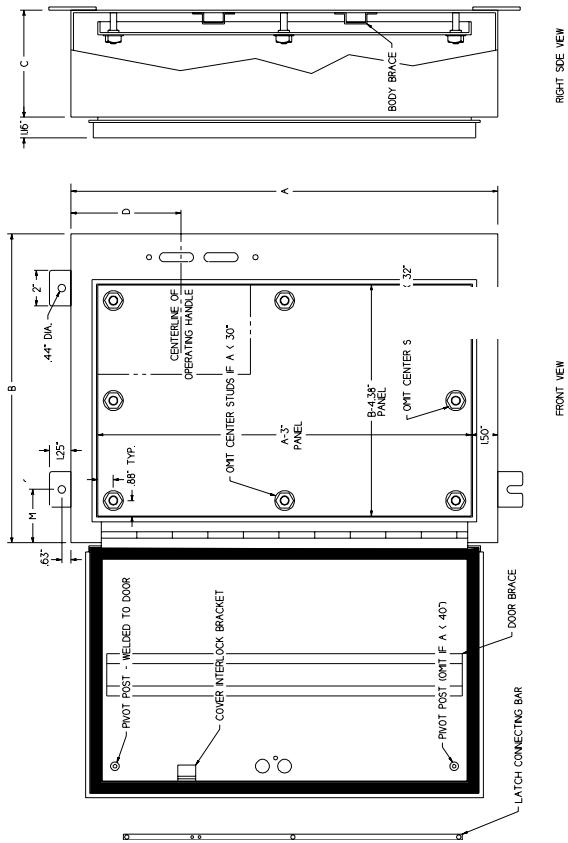
Allen-Bradley 1494D Circuit Breakers

A-B Type No.	Max Amp Rating	F	G
N1/N11	70	6.5	5.12
N1/N11	150	6.5	5.12
N2/N21	225	9.5	5.75
N2/N21	400	9.5	5.7

"A" dimension is hinged side.

NEMA 12 Single-Door Disconnect Enclosures

Allen-Bradley Square-D Class 9422 Disconnects



"A" dimension is hinged side.

- Notes:**

 - E=4.75 when C=8.
 - E=7.09 when C=10.
 - E=11.62 when C=12.
 - E=11.62 when C=16.
 - E=18.38 for A-60SA381A24LP.
 - W = Wiring space.
 - See tables for various brands of disconnects for F, G, & W dimensions.
 - These switches and circuit breakers can be installed in 10, 12, and 16 inch deep enclosures.
 - These switches and circuit breakers can be installed in 12 and 16 inch deep enclosures.
 - These switches and circuit breakers can be installed in 10, 12, and 16 inch deep enclosures only.
 - These circuit breakers can be installed in 12 and 16 inch deep enclosures only.
 - Does not include space for optional auxiliary switch.
 - These switches can be installed in A-60SA3812A24LP only.
 - All 12 inch and 16 inch deep enclosures can be modified to accept Allen-Bradley Bulletin 1494V-DS200 Disconnect switch with 1494V-H2 operating handle. E Dimensions is 10.19 when modified. Consult factory for details.



NEMA 12 Single-Door Disconnect Enclosures

Square D Class 9422 Disconnect Switches used with Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism

Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height X	Disconnect Width Y
TCN-30	30A	No Fuse	-	5.90	6.20
TCF-30	30A	30A-250V	H, K, R	7.50	6.20
TCF-33	30A	30A-600V	H, K, R	10.15	6.20
TCF-33	30A	60A-250V	H, K, R	8.15	6.20
TCF-33	30A	30A-600V	J	7.50	6.20
TDN-60	60A	No Fuse	-	5.90	6.20
TDF-60	60A	30A-600V	H, K, R	10.15	6.20
TDF-60	60A	60A-250V	H, K, R	8.15	6.20
TDF-63	60A	60A-600V	H, K, R	10.65	6.20
TDF-63	60A	60A-600V	J	7.50	6.20
TEN-10	100A	No Fuse	-	5.90	6.20
TEF-10	100A	100A-250V	H, K, R	10.35	6.20
TEF-10	100A	100A-600V	H, K, R	12.35	6.20
TEF-10	100A	100A-600V	J	10.35	6.20

Square D Class 9422 Cable Mechanisms for Circuit Breakers

Cable Type Switch	Amp Rating	Frame Type	Circuit Breaker Height X	Circuit Breaker Width Y
9422 CGJ30	75A	GJL	4.75	3.50
9422 CEJ30	100A	GJL	4.75	3.50
9422 CFA30	100A	FAL, FHL	6.00	4.50
9422 CKA30	250A	KAL, KHL	8.00	4.50
9422 CLA30	400A	LAL, LHL, Q4L	11.00	6.00

Square D Class 9422 Disconnects

Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied X/F	Space Occupied G
TCN-30	30A	No Fuse	-	3.80	6.84
TCF-30	30A	30A-250V	H, K, R	5.53	6.84
TCF-33	30A	30A-600V	H, K, R	8.15	6.84
TCF-33	30A	60A-250V	H, K, R	6.15	6.84
TCF-33	30A	30A-600V	J	5.53	6.84
TDN-60	60A	No Fuse	-	3.80	6.84
TDF-60	60A	30A-600V	H, K, R	8.15	6.84
TDF-60	60A	60A-250V	H, K, R	6.15	6.84
TDF-63	60A	60A-600V	H, K, R	8.65	6.84
TDF-63	60A	60A-600V	J	5.53	6.84
TEN-10	100A	No Fuse	-	3.80	6.84
TEF-10	100A	100A-250V	H, K, R	8.25	6.84
TEF-10	100A	100A-600V	H, K, R	10.25	6.84
TEF-10	100A	100A-600V	J	7.05	6.84
TC-1	30A	No Fuse	-	5.75	6.00
TC-2	30A	30A-250V	H, K, R	5.75	6.00
TC-3	30A	30A-600V	H, K, R	7.75	6.00
TC-3	30A	60A-250V	H, K, R	5.88	6.00
TC-3	30A	30A-600V	J	5.75	6.00
TD-1	60A	No Fuse	-	6.38	6.62
TD-2	60A	30A-600V	H, K, R	8.50	6.62
TD-2	60A	60A-250V	H, K, R	6.50	6.62
TD-3	60A	60A-600V	H, K, R	9.00	6.62
TD-3	60A	60A-600V	J	6.38	6.62
TE-1	100A	No Fuse	-	4.75	8.38
TE-2	100A	100A-250V	H, K, R	7.50	8.38
TE-2	100A	100A-600V	H, K, R	9.50	8.38
TE-2	100A	100A-600V	J	6.25	8.38
TE-3	100A	200A-600V	J	13.75	8.38
TF-1	200A	No Fuse	-	5.50	11.62
TF-2	200A	200A-250V	H, K, R	11.50	11.62
TF-2	200A	200A-600V	H, K, R	14.00	11.62
TF-2	200A	200A-600V	J	10.12	11.62
TF-3	200A	400A-600V	J	14.50	11.62
RG-1	75A	GJL	Circuit Breaker	3.53	3.74
RG-1	100A	GJL	Circuit Breaker	3.53	3.74
RN-1	100A	FAL, FHL	Circuit Breaker	5.12	5.25
RP-1	250A	KAL, KHL	Circuit Breaker	7.12	5.62
RP-1	400A	LAL, LHL, Q4L	Circuit Breaker	7.12	8.75

NEMA 12 Single-Door Disconnect Enclosures

ABB Controls Disconnect Switches with Flange-Mounted Operators

Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied	
				F	G
OETL-NF30-F	40A	No Fuse	-	4.45	3.78
OETL-NF60-F	80A	No Fuse	-	4.86	3.78
OETL-NF-100-F	100A	No Fuse	-	4.86	4.78
OETL-NF175-F	175A	No Fuse	-	7.30	6.49
OETL-NF200-F	200A	No Fuse	-	7.36	7.28
OESA-F30J6-F	30A	30A-600V	J	4.28	6.58
OESA-F60J6-F	60A	60A-600V	J	4.28	6.26
OESA-100JA-F	100A	100A-600V	J	6.54	7.65

ABB Controls Circuit Breakers with Flange-Mounted Operators

Mechanism	Amp Rating	Frame Type	Space Occupied	
			F	G
FHD-M	150A	D	6.92	3.94
FHF-M	150A-225A	E/Q	5.98	4.23
FHF-M	225A	F	7.44	4.23
FHJ-M	400A	J	9.71	5.62
FHM-M	600A	L	8.28	11.26
FHM-M	800A	M	10.11	11.26

Allen-Bradley 1494 V Disconnects

A-B Type No	Amp .Rating	Fuse Clip	Fuse Class	F	G
DS30	30A	No Fuse	-	3.88	6.62
DS30	30A	30A-250V	H-K-R	5.25	6.62
DS30	30A	30A-600V	H-K-R	8	6.62
DS30	30A	301-600V	J	5.25	6.62
DS3-	30A	60A-250V	H-K	6	6.62
DS30	30A	60A-600V	H-K	8.5	6.62
DS30	30A	60A-600V	J	5.38	6.62
DS60	60A	No Fuse	-	3.88	6.62
DS60	60A	60A-250V	H-K-R	6	6.62
DS60	60A	60A-600V	H-K-R	8.5	6.62
DS60	60A	60A-600V	J	5.38	6.62
DS60	60A	30A-600V	H-K-R	8	6.62
DS60	60A	100A-250V	H-K	8.5	6.62
DS60	60A	100A-600V	H-K	10.5	6.62
DS60	60A	100A-600V	J	7.25	6.62
DS100	100A	No Fuse	-	4.75	7.88
DS100	100A	100A-250V	H-K-R	10.38	7.88
DS100	100A	100A-600V	H-K-R	12.38	7.88
DS100	100A	100A-600V	J	9.12	7.99
DS100	100A	200A-250V	H-K	11.25	7.88
DS100	100A	200A-600V	H-K	13.75	7.88
DS100	100A	200A-600V	J	9.88	7.88
DS200	200A	No Fuse	-	10	10.88
DS200	200A	200A-250V	H-K-R	14.88	10.88
DS200	200A	200A-600V	H-K-R	17.25	10.88
DS200	200A	200A-600V	J	13.38	10.88
DS200	200A	400A-250V	H-K	15.75	10.88
DS200	200A	400A-600V	H-K	18.75	10.88
DS200	200A	400A-600V	J	14.25	10.88
DS400	400A	No Fuse	-	10.75	10.88
DS400	400A	400A-250V	H-K-R	16.12	10.88
DS400	400A	400A-600V	H-K-R	19.12	10.88
DS400	400A	400A-600V	J	14.62	10.88

NEMA 12 Single-Door Disconnect Enclosures

Cutler-Hammer Flex Shaft Operator Mechanisms for C-H/Westinghouse Circuit Breakers

Complete Operator Mechanism	Amp Rating	Frame Type	Breaker Height (in inches)	Breaker Width (in inches)
F1S03	225A	F-Frame/EHD, FDB, FD, HFD, FDC	6.00	4.12
F1S03	150A	F-Frame HMCP	6.00	4.12
F2S03	250A	J-Frame/JDB, JD, HJD, JDC	10.00	4.12
F2S03	250A	J-Frame HM CP	10.00	4.12
F3S03	400A	K-Frame/DK, KDB, KD, HKD	10.12	5.50
F3S03	400A	K-Frame HM CP	12.45	5.50
F4S04	600A	L-Frame/LD, HLD, LDC	10.75	8.25
F4S04	600A	L-Frame HM CP	12.50	8.25
F7S04	800A	M-Frame/MD, MDS	16.00	8.25
F5S04	1200A	N-Frame/ND, HND, NDC	16.00	8.25
F6S04	2500A	R-Frame/RD, CRD, RDC	16.00	15.50

Cutler-Hammer C361 Disconnect Switches

Switch Number	Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied F	G
C361	NC	30A	No Fuse	-	5.75	7.43
C361	SC21	30A	30A-250V	H, K, R	8.38	7.43
C361	SC61	30A	60A-250V	H, K, R	8.38	7.43
C361	SC61	30A	30A-600V	H, J, K, R	8.38	7.43
C361	ND	60A	No Fuse	-	5.75	7.43
C361	SD22	60A	60A-250V	H, K, R	8.38	7.43
C361	SD22	60A	30A-600V	J	8.38	7.43
C361	SD62	60A	60A-600V	H, K, R	8.38	7.43
C361	SD62	60A	60A-600V	J	8.38	7.43
C361	NE	100A	No Fuse	-	5.56	8.95
C361	SE263	100A	100A-250V	H, K, R	10.31	8.95
C361	SE263	100A	100A-600V	H, K, R	10.31	8.95
C361	SE263	100A	100A-600V	J	10.31	8.95
C361	NF	200A	No Fuse	-	13.06	10.00
C361	SF264	200A	200A-250V	H, K, R	13.06	10.00
C361	SF264	200A	200A-600V	H, J, K, R	13.06	10.00

Cutler-Hammer C371 Circuit Breaker Operators for C-H/Westinghouse Circuit Breakers

Mechanism	Max Amp Rating	Frame Type	Space Occupied F	G
C371E	225A	F Frame: EHD, FDB, FD, HFD, FDC	6.00	5.50
C371E	150A	F Frame: HM CP	6.00	5.50
C371F	250A	J Frame: JDB, JD, HJD, JDC	8.94	8.00
C371F	250A	J Frame: HM CP	10.94	8.00
C371F	400A	K Frame: DK, KDB, KD, HKD	9.75	8.00
C371F	400A	K Frame: HM CP	9.75	8.00
C371G	600A	L Frame: LD, HLD, LDC	8.44	11.88
C371G	600A	L Frame: HM CP	8.44	11.88

NEMA 12 Single-Door Disconnect Enclosures

General Electric Type STDA Operators for Disconnects

Mechanism	Amp Rating	Fuse Clip	Fuse Class	Space Occupied	
				F	G
TD0M 1A	30A	No Fuse	-	7.75	5.25
TD0M 1A	30A	30A-250V	H, R	7.75	5.25
TD0M 1B	30A	30A-600V	H, R	12.38	5.25
TD0M 1B	30A	60A-250V	H, R	12.38	5.25
TD0M 1B	30A	60A-600V	H, R	12.38	5.25
TD0M 1A	60A	No Fuse	-	7.75	5.25
TD0M 1B	60A	60A-250V	H, R	12.38	5.25
TD0M 1B	60A	60A-600V	H, R	12.38	5.25
TD0M 1B	60A	100A-250V	H, R	12.38	5.25
TD0M 1B	60A	100A-600V	H, R	12.38	5.25
TD0M 1A	100A	No Fuse	-	7.75	5.25
TD0M 1B	100A	100A-250V	H, R	12.38	5.25
TD0M 1B	100A	100A-600V	H, R	12.38	5.25
TD0M 1B	100A	200A-250V	H, R	12.38	5.25
TD0M 1B	100A	200A-600V	H, R	12.38	5.25
TD0M2	200A	No Fuse	-	7.00	9.12
TD0M2	200A	200A-250V	H, R	15.38	9.12
TD0M2	200A	200A-600V	H, R	15.38	9.12

General Electric Type STDA Operators for Circuit Breakers

Mechanism	Amp Rating	Frame Type	Space Occupied	
			F	G
SD0M 1A	150A	TEB, TED, THED	7.75	5.25
SD0M 1A	150A	TEC	7.75	5.25
TD0M 1B	150A	TB1	12.38	5.25
TD0M 1B	150A	TEC, TECL	12.38	5.25
TD0M 1C	150A	TEL	7.75	5.25
TD0M 1D	150A	THLC1	7.75	5.25
TD0M 3	225A	TFJ	10.38	5.75
TD0M 3	225A	TFK, THFK, TFL	10.38	5.75
TD0M 4	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.38
TD0M 4	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.38
TD0M 5	400A	TB4, TJH6S	14.25	9.38
TD0M 6	225A	TLB2, THLC2	11.75	9.38
TD0M 6	400A	TLB4, THLC4	11.75	9.38
SD0M 1A	150A	SPECTRA SE150	7.75	5.25
SD0M 3	250A	SPECTRA SF250	10.38	5.75
SD0M 4	600A	SPECTRA SG600	10.00	7.00

General Electric Circuit Breakers with Spectra Flex Cable Operators

Frame Size	Maximum Amp Rating	Circuit Breaker Height		Circuit Breaker Width
		X	Y	
E150	150A	6.31	4.12	
SE150	150A	6.31	4.12	
SF250	250A	10.12	4.12	
SG600	600A	10.09	5.50	
SK1200	1200A	15.50	8.25	



NEMA 12 Single-Door Disconnect Enclosures

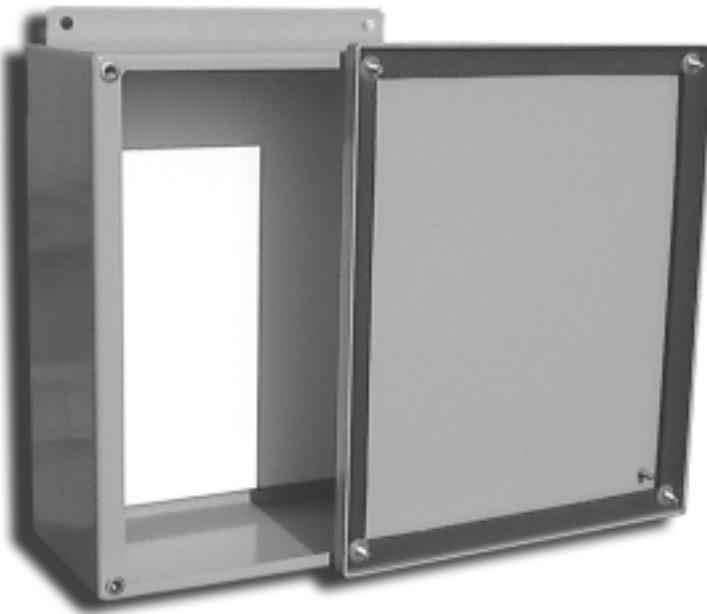
I-T-E Disconnect Switches for Max-Flex Operators

Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height X	Disconnect Width Y
MCS603R	30A	No Fuse	-	5.52	6.13
MCS603R	30A	30A-250V	H, K, R	8.11	6.13
MCS603R	30A	30A-600V	H, K, R	10.11	6.13
MCS603R	30A	30A-600V	J	8.48	6.13
MCS606R	60A	No Fuse	-	5.52	6.13
MCS606R	60A	60A-250V	H, K, R	7.86	6.13
MCS606R	60A	60A-600V	H, K, R	10.38	6.13
MCS606R	60A	60A-600V	J	8.36	6.13
MCS610R	100A	No Fuse	-	7.59	7.38
MCS610R	100A	100A-250V	H, K, R	11.85	7.38
MCS610R	100A	100A-600V	H, K, R	13.85	7.38
MCS610R	100A	100A-600V	J	10.60	7.38
MCS620R	200A	No Fuse	-	9.020	9.17
MCS620R	200A	200A-250V	H, K, R	14.70	9.17
MCS620R	200A	200A-600V	H, K, R	17.20	9.17
MCS620R	200A	200A-600V	J	13.32	9.17

I-T-E Circuit Breakers with Max-Flex Operators

Complete Operator Mechanism	Circuit Breaker Frame	Maximum Amp Rating	Circuit Breaker	
			Height X	Width Y
FHOE036	ED	125A	6.34	3.00
FHOE36	CED	125A	9.58	3.00
FHOF036	FD	250A	9.50	4.50
FHOJ036	CFD	250A	14.25	4.50
FHOJ036	JD	400A	11.00	7.50
FHOJ036	CJD	400A	17.86	7.50
FHOJ036	LD	600A	11.00	7.50
FHOJ036	CLD	600A	17.86	7.50
FHOLM036	LM D	800A	16.00	9.00
FHON048	MD	800A	24.00	9.00
FHON048	ND	1200A	24.00	9.00

JIC Screw Cover Enclosures



JIC Screw Cover Enclosures

Catalog Number	Size A x B x C	Shipping Weight
J-443SC*	4 x 4 x 3	2
J-444SC	4 x 4 x 4	2.5
J-643SC	6 x 4 x 3	3
J-644SC	6 x 4 x 4	3
J-664SC	6 x 6 x 4	4
J-863.5SC	8 x 6 x 3-1/2	5.5
J-866SC	8 x 6 x 6	7
J-884SC	8 x 8 x 4	7
J-1084SC	10 x 8 x	8
J-1086SC	10 x 8 x 6	10
J-10104SC	10 x 10 x 4	9
J-10106SC	10 x 10 x 6	11
J-12105SC	12 x 10 x 5	11
J-12126SC	12 x 12 x 6	15
J-14126SC	14 x 12 x 6	16
J-16146SC	16 x 14 x 6	20

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

Application

JIC Screw Cover Enclosures are designed to house electrical/electronic controls, splices, meters, and instruments. These enclosures are rated for indoor usage with protection against dust, dirt, oil and water.

Construction

- 14 ga. or 16 ga. steel
- Screws threaded into sealed wells to stop leakage of liquids into the box
- Gasketed cover
- Oil-resistant gasket
- Continuously welded seams
- Mounting feet
- Weld nuts for mounting panels
- U.L. listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits

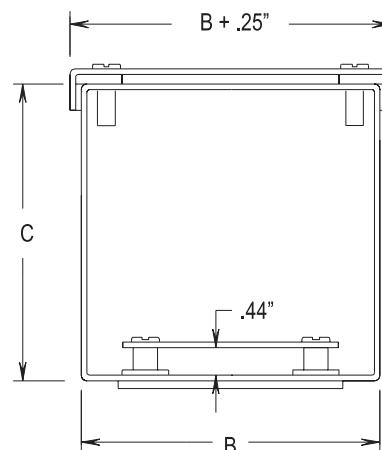
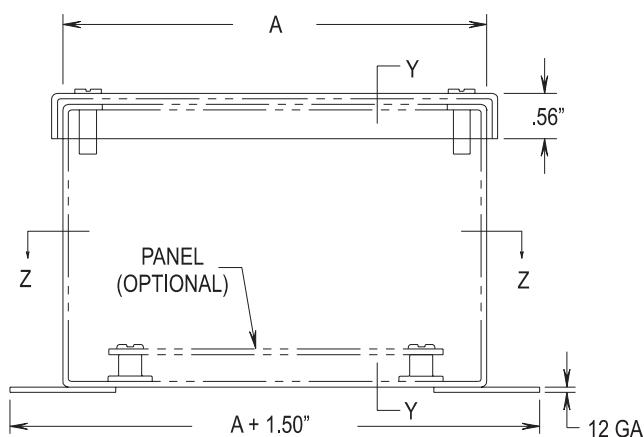
Modifications

- Stainless Steel
- Aluminum
- Special sizes
- Special paint
- Knockouts
- Cutouts

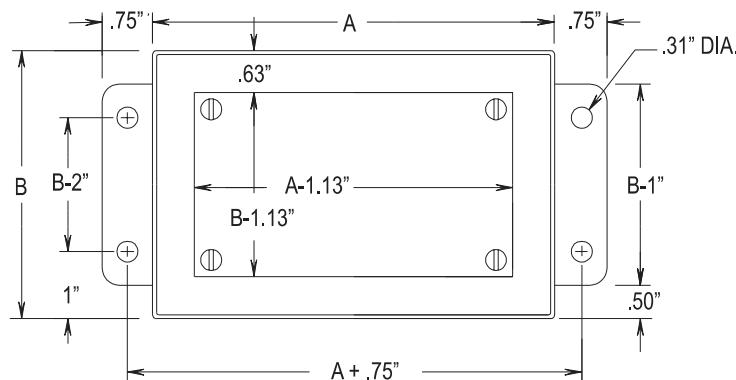
"A" dimension is hinged side.



JIC Screw Cover Enclosures



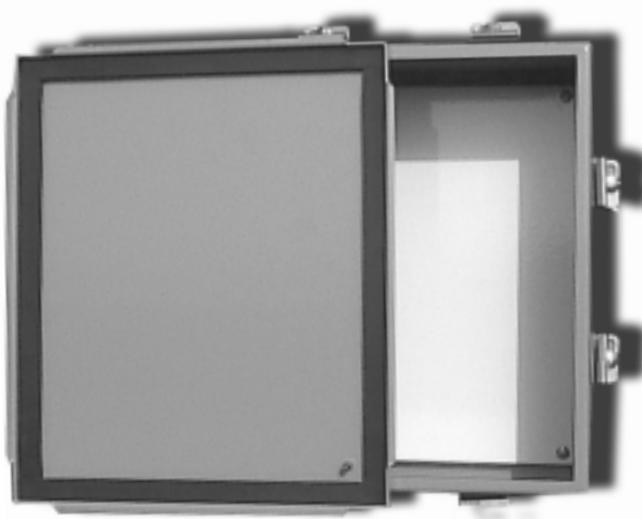
SECTION A-A



SECTION Z-Z

"A" dimension is hinged side.

JIC NEMA 4 Steel and Galvanized Clamp Cover Boxes



JIC NEMA Type 4 Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443N4*	4 x 4 x 3	2
J-643N4	6 x 4 x 3	3
J-664N4	6 x 6 x 4	4
J-863.5N4	8 x 6 x 3.5	6
J-1084N4	10 x 8 x 4	9
J-12105N4	12 x 10 x 5	12
J-14126N4	14 x 12 x 6	17
J-16146N4	16 x 14 x 6	21

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

JIC Galvanized Steel NEMA Type 4 Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443N4GLV*	4 x 4 x 3	2
J-643N4GLV	6 x 4 x 3	2
J-863.5N4GLV	8 x 6 x 3.5	5
J-664N4GLV	6 x 6 x 4	4
J-1084N4GLV	10 x 8 x 4	8
J-12105N4GLV	12 x 10 x 5	11
J-14126N4GLV	14 x 12 x 6	16
J-16146N4GLV	16 x 14 x 6	21

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

Application

EMF JIC NEMA Type 4, Clamp Cover Boxes can be used outdoors on ship docks or in dairies, breweries, packing house or other areas that are very wet or hosed down regularly.

Features

- 14 ga. or 16ga. steel or galvanized steel
- External screw clamps or stainless steel
- Neoprene gasket provides a water tight seal when clamps are tightened down
- External mounting feet
- Weld nuts for mounting panels
- U.L listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces on steel only. Galvanized boxes are unpainted. Corners are zinc rich primed for protection.

Accessories

See General Accessories Index page 151.

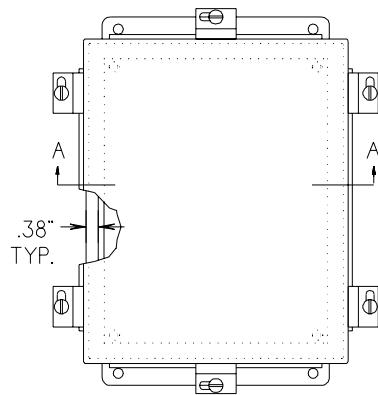
- Panels
- Window kits

Modifications

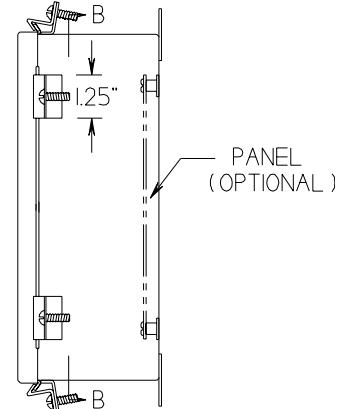
- Stainless Steel
- Aluminum
- Special sizes
- Special paint
- Knockouts
- Cutouts

"A" dimension is hinged side.

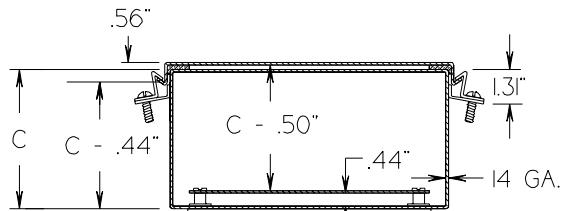
JIC NEMA 4 Steel and Galvanized Clamp Cover Boxes



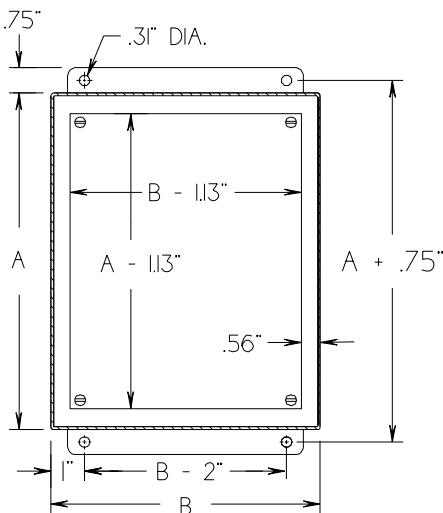
FRONT VIEW



RIGHT SIDE VIEW



SECTION A - A



SECTION B - B

"A" dimension is hinged side.

JIC NEMA 12 Steel and Stainless Steel Lift-Off Hinge Clamp Cover Boxes



JIC Lift-Off Hinge, Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443LC*	4 x 4 x 3	3
J-444LC*	4 x 4 x 4	3
J-643LC	6 x 4 x 3	3
J-644LC	6 x 4 x 4	3
J-664LC	6 x 6 x 4	4
J-863.5LC	8 x 6 x 3-1/2	6
J-1084LC	10 x 8 x 4	9
J-12105LC	12 x 10 x 5	12
J-14126LC	14 x 12 x 6	17
J-16146LC	16 x 14 x 6	21

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

JIC Stainless Steel Lift-Off Hinge, Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443LCSS*	4 x 4 x 3	2
J-643LCSS	6 x 4 x 3	3
J-664LCSS	6 x 6 x 4	5
J-863LCSS	8 x 6 x 3 1/2	4
J-1084LCSS	10 x 8 x 4	8
J-12105LCSS	12 x 10 x 5	12
J-14126LCSS	14 x 12 x 6	17
J-16146LCSS	16 x 14 x 6	20

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

Application

JIC Lift-Off Hinge Steel and Stainless Clamp cover Boxes have found wide application in industries where protection from dust, dirt, oil and water is required. Stainless boxes provide corrosion protection.

Construction

- 14 ga. or 16 ga. steel or stainless steel
- Lift-Off hinges
- External screw clamps
- Cover held on with jack chain
- Continuously welded seams
- Mounting feet
- Weld nuts provided for mounting panels
- U.L listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces. No. 3 Grained finish on stainless boxes

Accessories

See General Accessories Index page 151.

- Panels
- Window kits

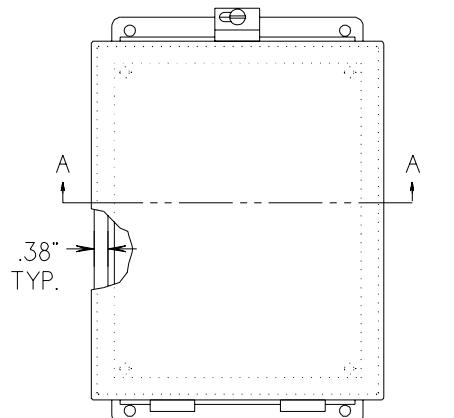
Modifications

- Aluminum
- Galvanized steel
- Special sizes
- Special paint
- Knockouts
- Cutouts

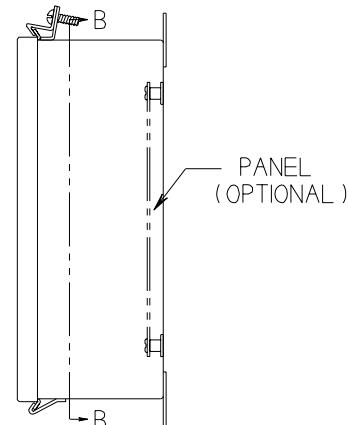
"A" dimension is hinged side.



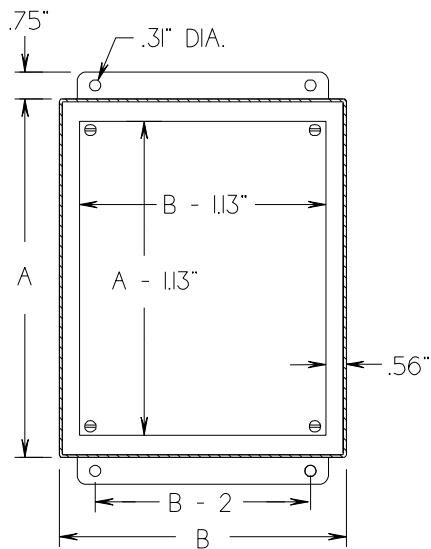
JIC NEMA 12 Steel and Stainless Steel Lift-Off Hinge Clamp Cover Boxes



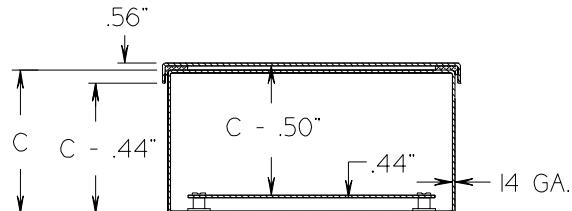
FRONT VIEW



RIGHT SIDE VIEW
JACK CHAIN NOT SHOWN



SECTION B - B



SECTION A - A

"A" dimension is hinged side.

JIC NEMA 4 Steel, Stainless Steel and Aluminum Clamp Cover Boxes



Application

EMF JIC NEMA 4 Continuous Hinge Clamp Cover Boxes are used outdoors on ship docks or in dairies, breweries, packing houses, or other areas that are very wet or hosed down regularly.

Construction

- 14 ga. or 16 ga. steel or stainless steel
- .080 5052 H32 aluminum
- External screw clamps
- Mounting feet
- Continuous hinge
- Grained finish on aluminum and #3 grain on stainless enclosures
- Oil resistant gasket provides a water tight seal when clamps are tightened
- Weld nuts for mounting panel
- U. L. listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces on steel only

Accessories

See General Accessories Index page 151.

- Panels
- Window kits

Modifications

- Galvanized steel
- Special sizes
- Special paint
- Knockouts
- Cutouts

JIC NEMA Type 4 Continuous Hinge, Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443CHN4*	4 x 4 x 3	2
J-643CHN4	6 x 4 x 3	2
J-664CHN4	6 x 6 x 4	4
J-863.5CHN4	8 x 6 x 3.5	6
J-1084CHN4	10 x 8 x 4	9
J-12105CHN4	12 x 10 x 5	13
J-14126CHN4	14 x 12 x 6	17
J-16146CHN4	16 x 14 x 6	20

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

JIC Aluminum NEMA Type 4 Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443N4AL*	4 x 4 x 3	1
J-643N4AL	6 x 4 x 3	1
J-863.5N4AL	8 x 6 x 3.5	2
J-664N4AL	6 x 6 x 4	2
J-1084N4AL	10 x 8 x 4	3
J-12105N4AL	12 x 10 x 5	5
J-14126N4AL	14 x 12 x 6	7
J-16146N4AL	16 x 14 x 6	9

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

JIC Stainless Steel NEMA Type 4X Continuous Hinge, Clamp Cover Boxes

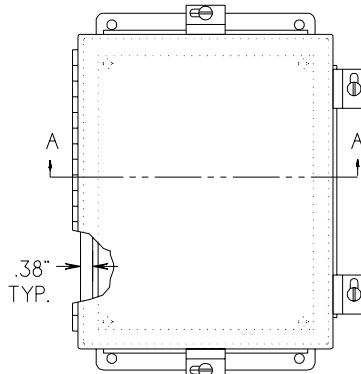
Catalog Number	Size A x B x C	Shipping Weight
J-644CHN4X-SS	6 x 4 x 4	3
J-664CHN4X-SS	6 x 6 x 4	4
J-864CHN4X-SS	8 x 6 x 4	7
J-1084CHN4X-SS	10 x 8 x 4	5
J-12106CHN4X-SS	12 x 10 x 6	14
J-12126CHN4X-SS	12 x 12 x 6	14
J-14126CHN4X-SS	14 x 12 x 6	17
J-16146CHN4X-SS	16 x 14 x 6	20

Any custom size at any quantity is available for this enclosure model.

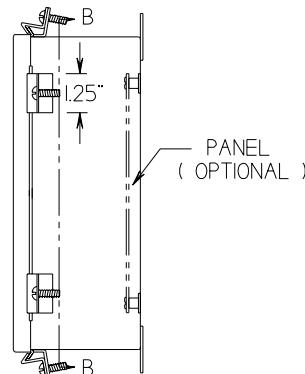
"A" dimension is hinged side.



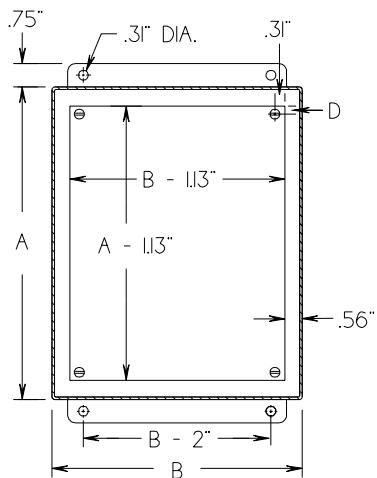
JIC NEMA 4 Steel, Stainless Steel and Aluminum Clamp Cover Boxes



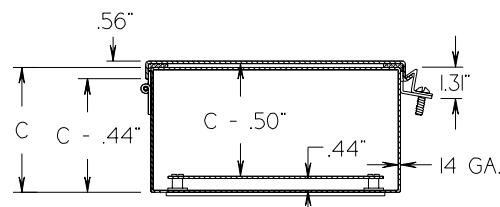
FRONT VIEW



RIGHT SIDE VIEW



SECTION B - B



SECTION A - A

"A" dimension is hinged side.

JIC NEMA 12 Steel and Aluminum Continuous Hinge Clamp Cover Boxes



JIC Continuous Hinge Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-443CH*	4 x 4 x 3	2
J-444CH*	4 x 4 x 4	3
J-643CH	6 x 4 x 3	3
J-644CH	6 x 4 x 4	3
J-664CH(S)	6 x 6 x 4	4
J-863.5CH	8 x 6 x 3-1/2	6
J-866CH(S)	8 x 6 x 4	7
J-884CH(S)	8 x 8 x 4	7
J-1084CH(S)	10 x 8 x 4	8
J-1086CH(S)	10 x 8 x 6	10
J-10106CH	10 x 10 x 6	11
J-12105CH(S)	12 x 10 x 5	12
J-12126CH	12 x 12 x 6	15
J-14126CH(S)	14 x 12 x 6	17
J-16146CH(S)	16 x 14 x 6	20
J-16148CH(S)	16 x 14 x 8	23

Note: (S) is in stock

*Not made to house panels.

Any custom size at any quantity is available for this enclosure model.

JIC Aluminum Continuous Hinge, Clamp Cover Boxes

Catalog Number	Size A x B x C	Shipping Weight
J-664CHAL	6 x 6 x 4	2
J-864CHAL	8 x 6 x 4	2
J-1084CHAL	10 x 8 x 4	3
J-12106CHAL	12 x 10 x 6	5
J-14126CHAL	14 x 12 x 6	7
J-16146CHAL	16 x 14 x 6	9

Any custom size at any quantity is available for this enclosure model.

Application

JIC NEMA 12 Steel and aluminum continuous Hinge Clamp Cover Boxes are used to house electrical and electronic controls, meter, splices, and instruments. These boxes are rated for indoor usage with protection against dust, dirt, oil, and water.

Features

- 14 ga. or 16 ga. steel
- .080 5052 H32 aluminum
- Continuous hinge
- External screw clamps
- Continuously welded seams
- External mounting feet
- Weld nuts for mounting panels
- U. L. listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces. Grained finish on aluminum boxes.

Accessories

See General Accessories Index page 151.

- Panels
- Window kits

Modifications

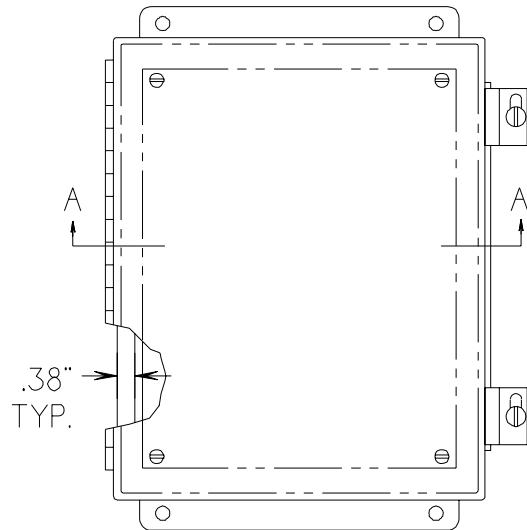
- Stainless steel
- Galvanized steel
- Special sizes
- Special paints
- Knockouts
- Cutouts



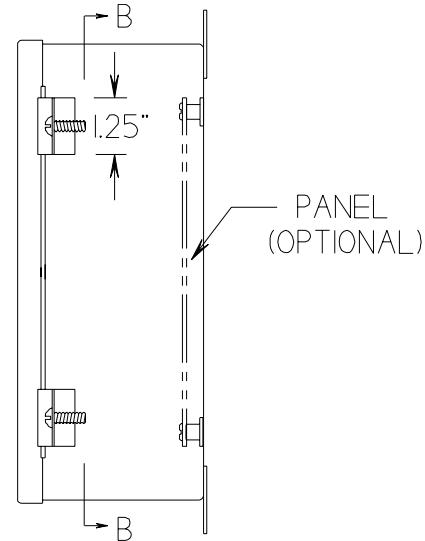
Custom JIC CH Enclosure

"A" dimension is hinged side.

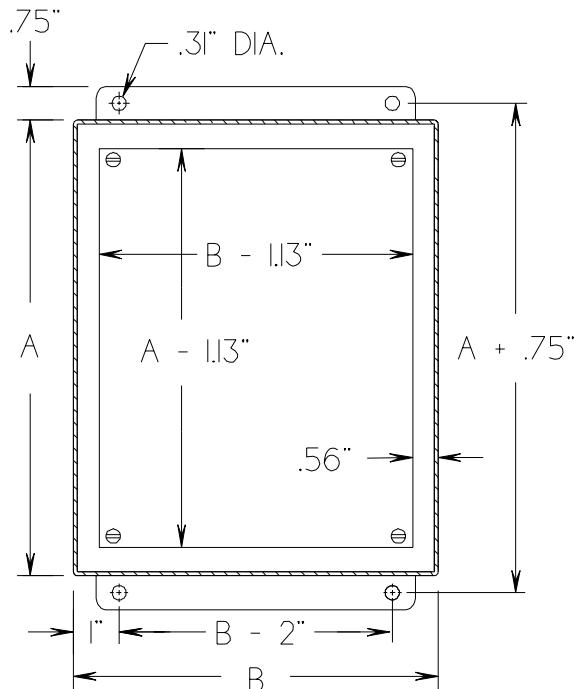
JIC NEMA 12 Steel and Aluminum Continuous Hinge Clamp Cover Boxes



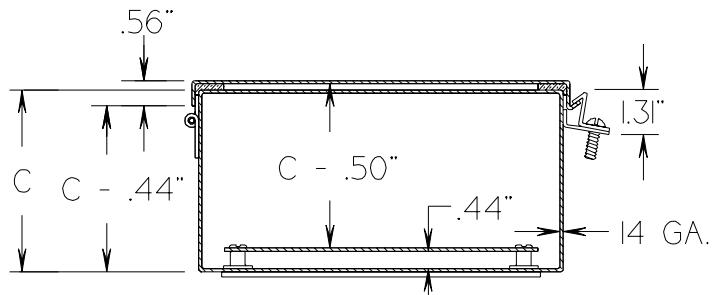
FRONT VIEW



RIGHT SIDE VIEW



SECTION B - B



SECTION A - A

"A" dimension is hinged side.

Single Door Large Oil Tight NEMA 12 Enclosures



J-48H36C

Application

EMF NEMA 12 Large oil tight boxes are used to house controls and related electrical devices.

Features

- 14 ga. steel
- Mounting feet
- Exterior door clamps
- Continuously hinged door
- Collar studs for mounting panel
- Continuously welded seams
- Neoprene oil-resistant gasket

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces

Accessories

See General Accessories Index page 151.

- Louvers
- Window kits

Modifications

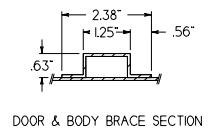
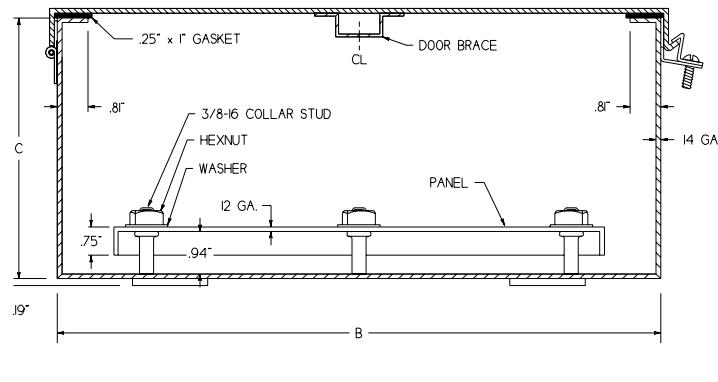
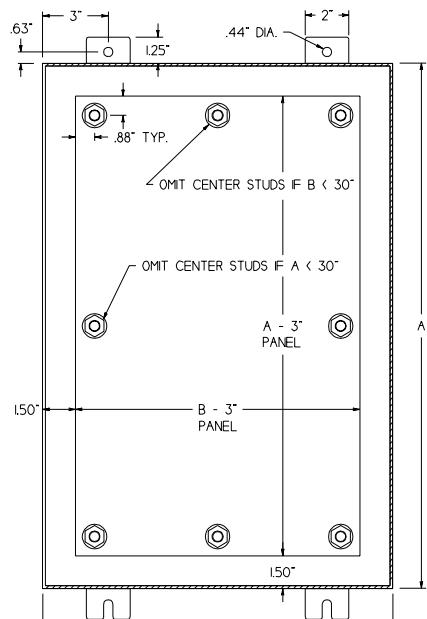
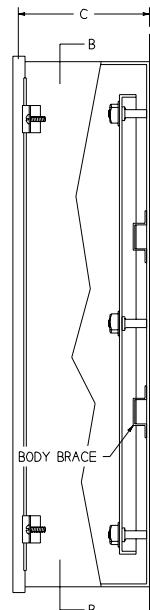
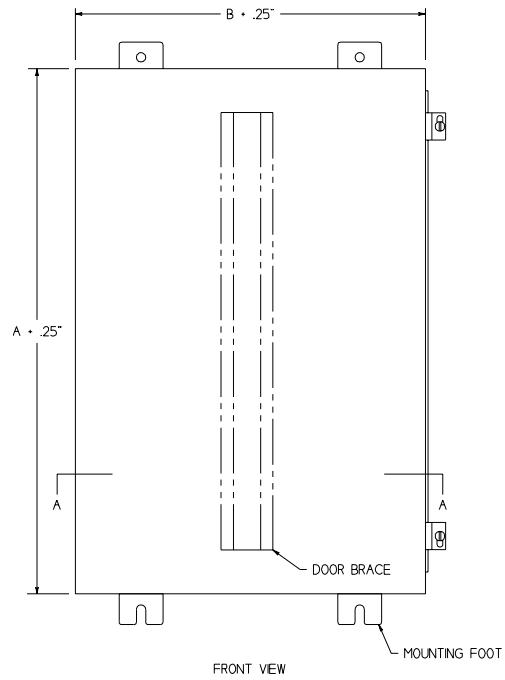
- Special paints
- Special latches
- Knockouts
- Cutouts
- Aluminum, Galvanized, Stainless

Catalog Number	Size A x B x C	Shipping Weight
J-20H16A	20 x 16 x 7	31
J-20H20A	20 x 20 x 7	36
J-24H20A	24 x 20 x 7	41
J-24H24A	24 x 24 x 7	48
J-30H20A	30 x 20 x 7	49
J-30H24A	30 x 24 x 7	58
J-36H24A	36 x 24 x 7	66
J-20H16B	20 x 16 x 9	36
J-20H20B	20 x 20 x 9	36
J-24H20B	24 x 20 x 9	47
J-24H24B	24 x 24 x 9	52
J-30H20B	30 x 20 x 9	54
J-30H24B	30 x 24 x 9	66
J-36H24B	36 x 24 x 9	76
J-36H30B	36 x 30 x 9	90
J-42H30B	42 x 30 x 9	102
J-42H36B	42 x 36 x 9	121
J-24H24C	24 x 24 x 11	57
J-36H24C	36 x 24 x 11	80
J-48H36C	48 x 36 x 11	155
J-30H24D	30 x 24 x 13	72
J-36H30D	36 x 30 x 13	104

Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.

Single Door Large Oil Tight NEMA 12 Enclosures



OMIT BODY BRACE WHEN A & B < 30"
OMIT DOOR BRACE WHEN B < 3"

"A" dimension is hinged side.

Process Control Consoles



PC-6630



PC-5626

Application

These consoles offer the user a variety of options that can enhance an application. This design is primarily intended for mini-tower or server based computers with plenty of room for a monitor, printer, keyboard and other peripheral devices. The PC-6626 and PC-6630 have ample room to protect the most advanced of work stations. The PC-5626 is down sized for those needing a little less space yet want the comfort of sitting. Each design features a ruggedness not found in the European styled console units. This feature combined with fully gasketed doors and viewing windows makes for a unit that is functional in the shop or production area environment. Which in turn, means that your components are less likely to fail under intense conditions.

Construction

- NEMA 12 Rated
- 12 ga. Steel construction
- Choice of four textured colors
- Upright or angled monitor mounting (PC-5626 only)
- Continuously hinged and fully gasketed doors
- Lift & Turn latching
- Each door has one latch that is lockable (all keyed alike)
- Gasketed cable entry
- Surge protection outlet included
- Smoothly operating casters for easy maneuvering
- Full size viewing window for large or smaller monitors
- Continuously welded seams ground smooth
- Internal mounted vented shelving is easily adjusted
- Padded bracket secures monitor

Accessories

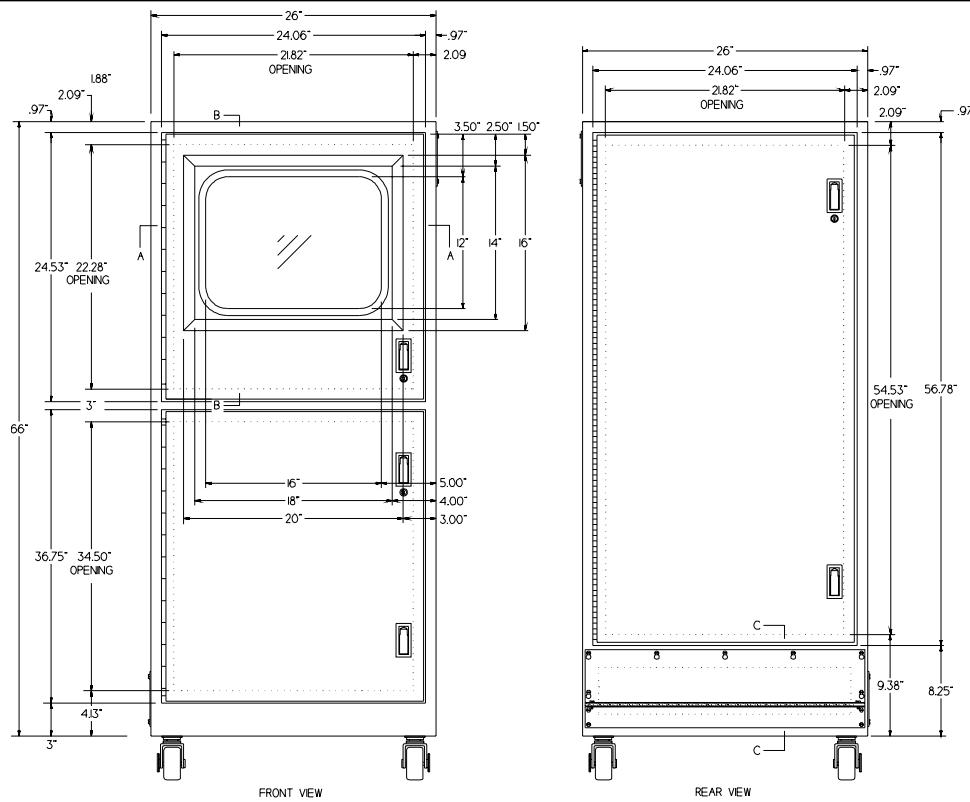
- Keyboard Trays
- Louver Kits
- Purging Equipment
- Climate Control

Modification

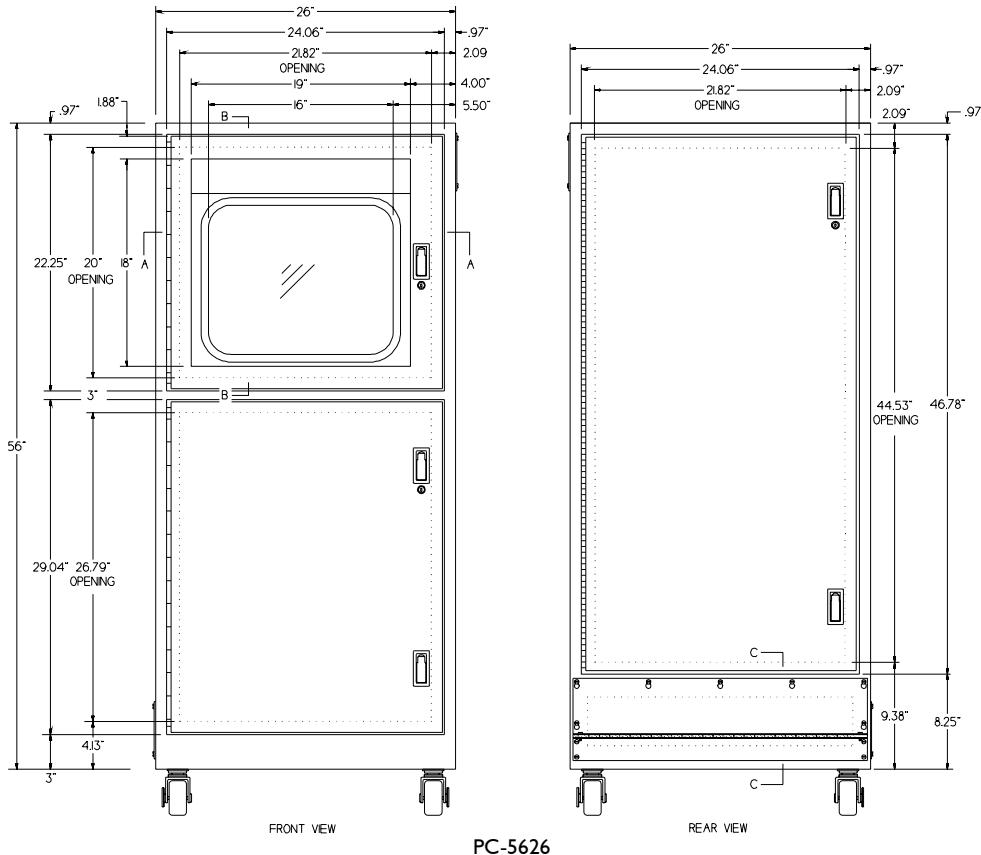
- Stainless
- Aluminum
- Galvanized Steel
- Special cutouts
- Special sizes
- Special finishes
- Climate control equipment

Catalog Number	Size A x B x C (INCH)	Size A x B x C (MM)	Shipping Weight
PC-6626	66 x 26 x 26	1676 x 660 x 660	359
PC-6630	66 x 30 x 30	1676 x 762 x 762	380
PC-5626	56 x 26 x 26	1422 x 660 x 660	349

Process Control Consoles



PC-6626
PC-6630



"A" dimension is hinged side.

PC and Monitor Enclosures

Application



PC-2825 Front



PC-2825 Back

EMF has manufactured numerous versions of PC & Monitor enclosures. Keeping the design simple yet appealing proved to be the unifying concept of design. We collected the best features of our designs and evolved the present model of the PC monitor enclosure. This new design is the most rugged and competitive one of its kind in the market place. The exclusive monitor mounting system insures a secured fit. With the addition of climate control equipment, the vented shelf for the monitor assures circulation of air and to help maintain a friendly environment for your unit. There's room for the PC too-as well as an external coupler for the keyboard.

Features

- 14 ga. steel for PC-2325
- 12 ga. steel for PC-2825
- NEMA 12 Rated
- Lockable front and rear access doors
- Choice of four textured colors
- Shatter-resistant Lexan viewing window
- Continuously hinged and fully gasketed doors
- Lift & turn latching
- Gasketed cable access
- Surge protection outlets
- Each door is lockable (all keyed alike)
- Continuously welded seams ground smooth

Accessories

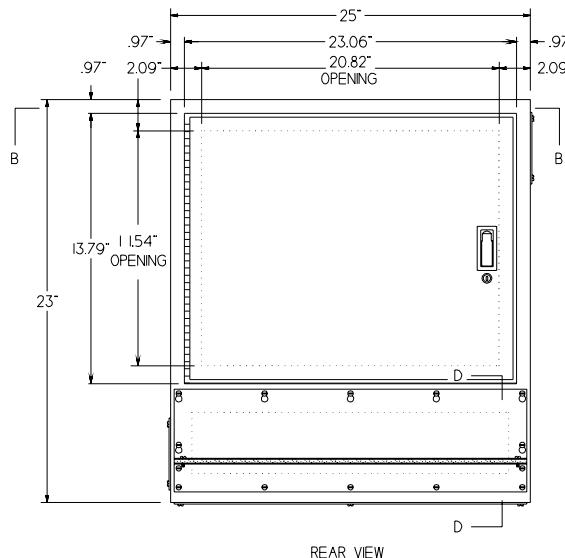
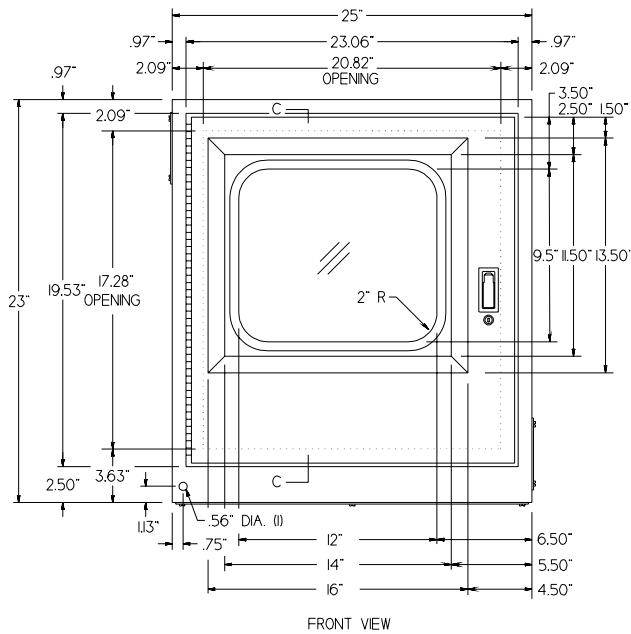
- Keyboard Trays
- Louver Kits
- Purging Equipment
- Tilt Trays
- Pedestals

Modification

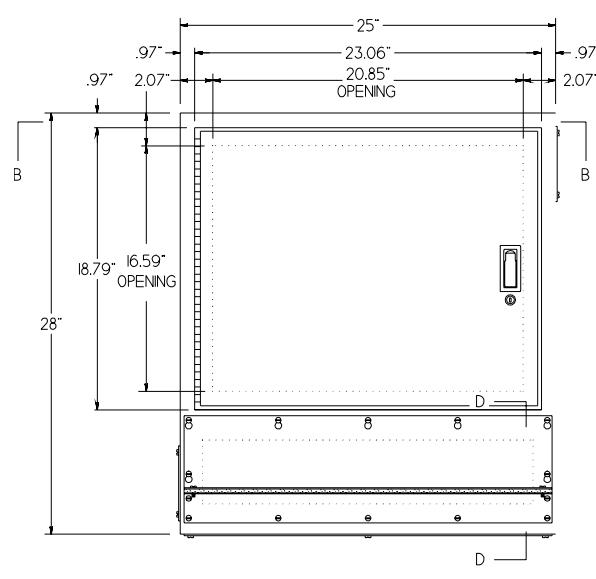
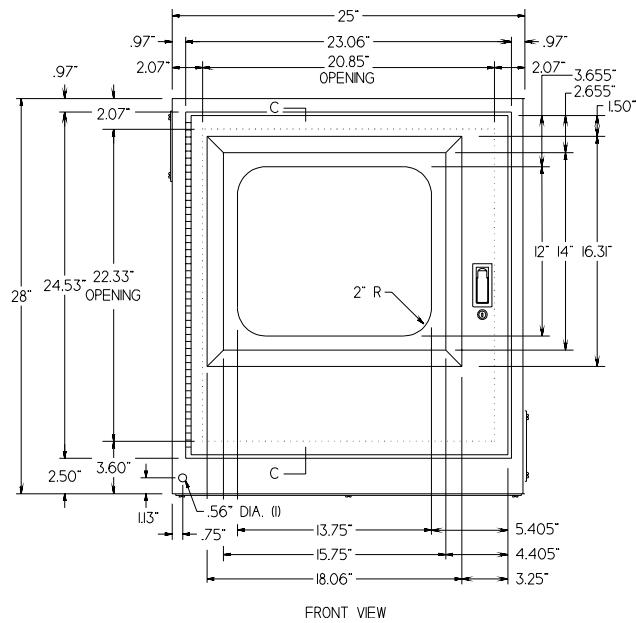
- Stainless
- Aluminum
- Galvanized Steel
- Special cutouts
- Special sizes
- Special finishes
- Climate control equipment

Catalog Number	Size A x B x C (INCH)	Size A x B x C (MM)	Shipping Weight
PC-2825	28 x 25 x 26	711 x 635 x 660	136
PC-2325	23 x 25 x 26	584 x 635 x 660	110

PC and Monitor Enclosures



PC-2325



PC-2825

New Generation NEMA 12 Consoles



Application

EMF New Generation Consoles offer NEMA 12 protection with European design. These consoles are heavy duty constructed and are used for housing the latest designs of electrical and electronic controls. The control panel surface is designed specifically to be free of hardware so that the mounting of devices is less troublesome. These consoles are easily adapted to floor mounting. Cable entry is made easier with the addition of an optional plinth. Interior components can be mounted on stationary sub-panels which can be purchased separately.

Features

- 14 Ga. steel construction
- One door or Two door models
- Lift-off Hinged Lower doors
- Open Bottom with sealing gland plate(s)
- Continuously welded seams ground smooth
- Gasketed doors
- Studs for mounting backpanels
- UL/CSA listed
- 3 Pt. hardware for lower door

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces

Accessories

See General Accessories Index page 151.

- Panels
- Window kits
- Plinths
- Print pockets
- Climate control
- Pad lockable latching
- Mechanical Cover Stays
- Door Stops
- Gas Shocks

Modification

- Holes
- Special Latches
- 304 or 316 SS
- Cutouts
- Odd sizes
- Special paint jobs
- And More!

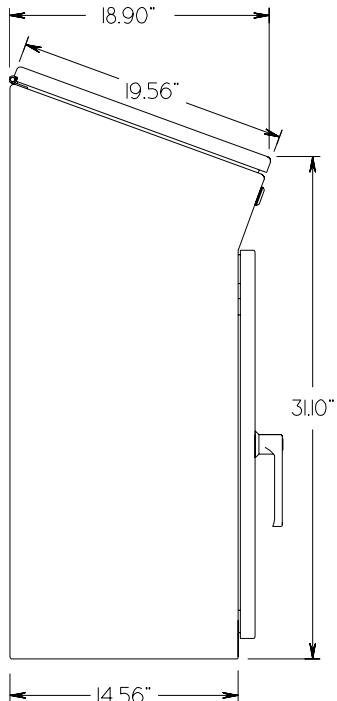
Catalog Number	Size A x B x C	Shipping Weight
NGC-235	37.8 x 23.5 x 14.56	95
NGC-315	37.8 x 31.5 x 14.56	120
NGC-395	37.8 x 39.37 x 14.56	145
NGC-475	37.8 x 47.24 x 14.56	161

Any custom size at any quantity is available for this enclosure model.

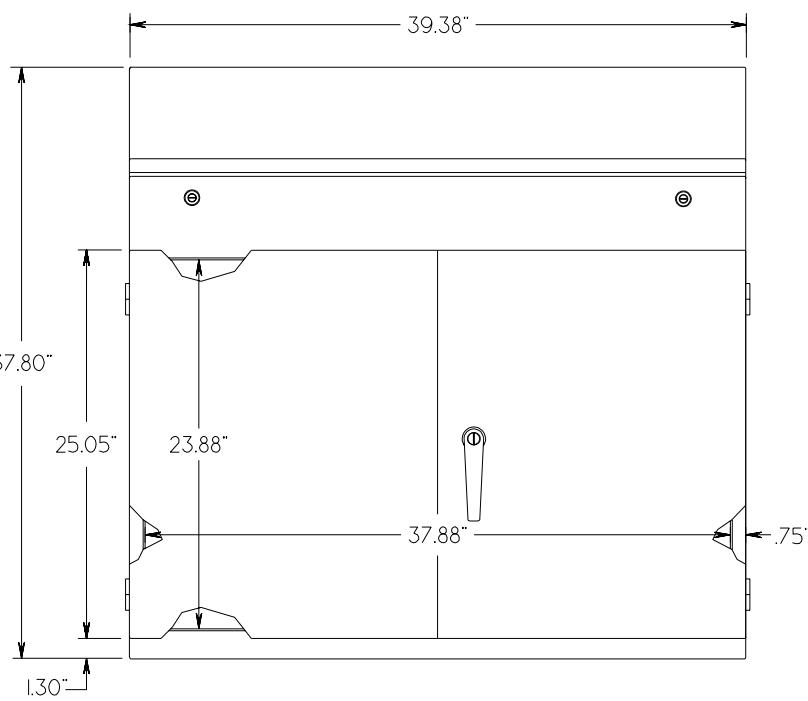


"A" dimension is hinged side.

New Generation NEMA 12 Consoles

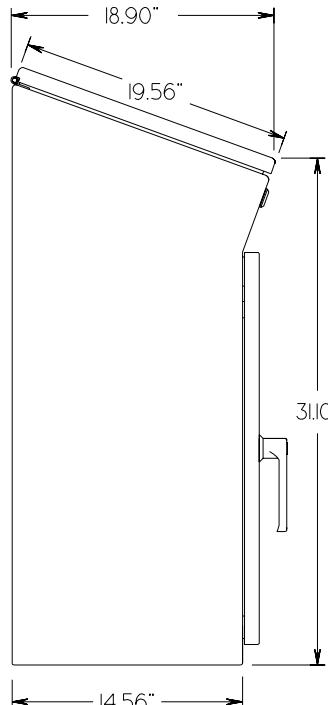


SIDE VIEW

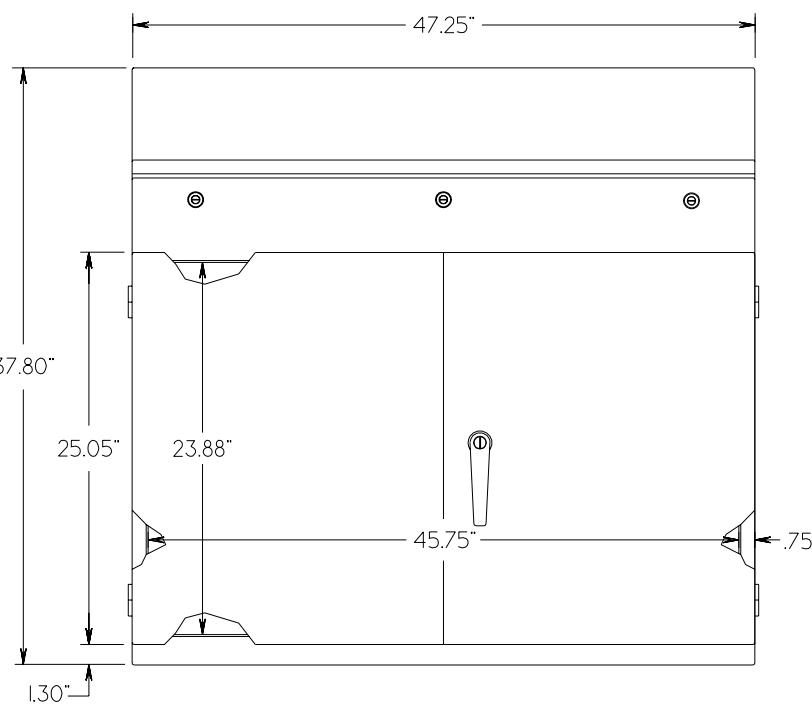


FRONT VIEW

NGC-395



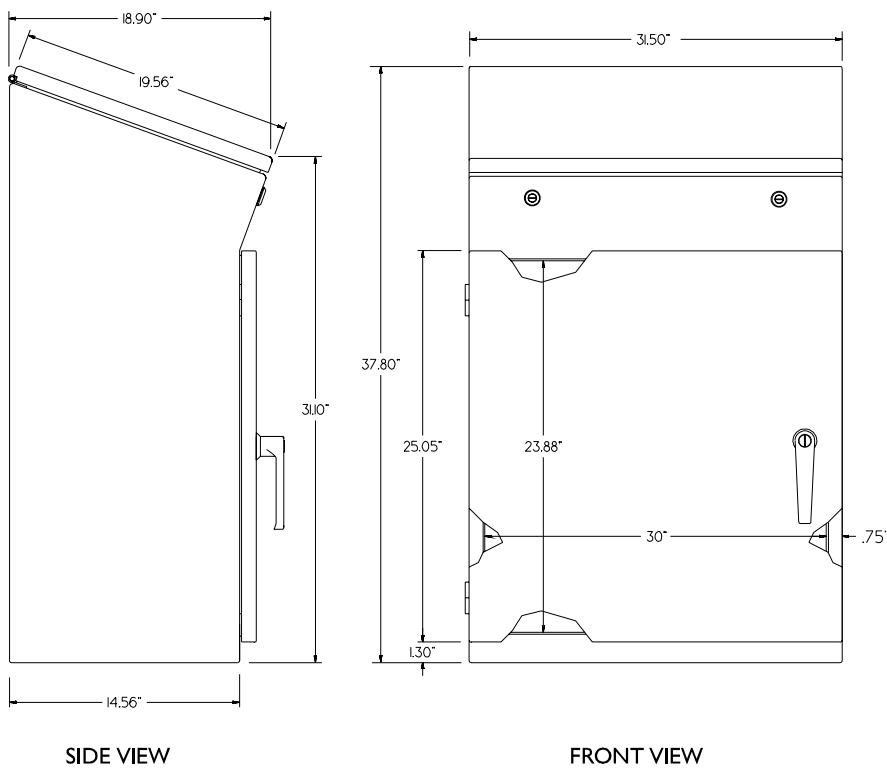
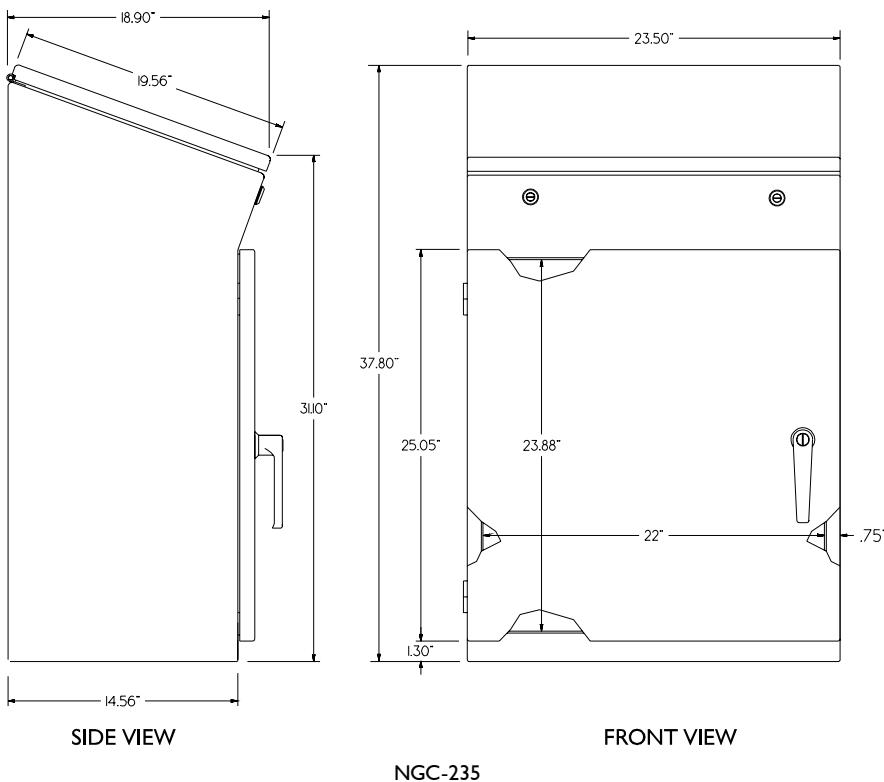
SIDE VIEW



FRONT VIEW

NGC-475

New Generation NEMA 12 Consoles



NGC-315

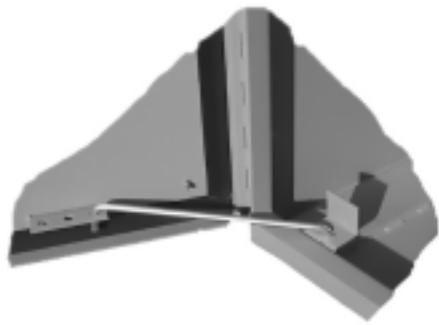
New Generation NEMA 12 Console Accessories - Door Manipulation Devices

Application

There are three standard door manipulation devices that are adaptable to the New Generation Consoles. These devices are used to help hold covers or doors open to a standard opening while service is being performed on the control device. NGC-CVSTY is a mechanical cover stay used on the control cover. NGC-DSTKT is a mechanically operated door stop intended for use on the lower doors. NGC-GSHK is a 120lb. rated gas shock intended for use on the control cover and used in a semiautomatic capacity (Note: For control panels that are over 120lbs. in mounted weight, an additional shock may be needed.).



NGC-CVSTY



NGC-DSTKT



NGC-GSHK

Oil Tight Console Cabinets



EC-1436 Series Console Cabinet

Application

EMF Oil Tight Console Cabinets are designed as heavy duty enclosures for housing electrical and electronic controls. Push buttons, pilot lights, motor, and switches can be mounted on the control panels or on the instrument panels. Interior components can be mounted on stationary sub-panels, swingout panels or rack angles.

Features

- 12 ga. or 14 ga. steel
- Continuously welded seams
- Gasketed doors
- Instrument panels
- Single & two door construction
- Three-point key locking latch system on all doors
- Captive screws
- Stops for control panels doors
- Conforms to NEMA 12, 13 U.L. 508 standards
- U.L. Listed

Finish

ANSI 61 grey enamel out, white enamel in, over phosphatized surfaces. Grey primer finish outside.

Accessories

See General Accessories Index page 151.

- Tops
- Writing desks
- Caster kits
- Window kits
- Sub panels
- Print pockets

Modifications

- Aluminum
- Stainless steel
- Special paints
- Special latches
- Odd Sizes
- Louvers
- Hubs
- Disconnect cutouts
- Special hinging arrangements
- Special panel arrangements



C-4836CAB Series Console Cabinet.



C-4024OTCB Series Console Cabinet.



Oil Tight Console Cabinets

EC-Series Consoles

Catalog	Description	Shipping
EC-14B	Console Body	160
EC-14T	Console Top	45
EC-14P1	Swing-out Panel	22
EC-14P2	Half Panel	17
EC-14P3	Full Subpanel	26
EC-14R	Rack Angles	12
EC-14W	Writing Desk	8
EC-12C	Caster Kit	12
EC-1436B	Console Body	208
EC-1436T	Console Top	64
EC-1436W	Writing Desk	14
EC-1436P1	Swing-out Panel	30
EC-1436P2	Half Panel	24
EC-1436P3	Full Subpanel	41
EC-1448BD	Console Body	260
EC-1448T	Console Top	81
EC-1448W	Writing Desk	18
EC-1448P2	Half Panel	37
EC-1448P3	Full Subpanel	68
EC-1460BD	Console Body	300
EC-1460T	Console Top	104
EC-1460P2	Half Panel	45
EC-1460P3	Full Subpanel	82
EC-1460W	Writing Desk	21
EC-1472BD	Console Body	342
EC-1472T	Console Top	112
EC-1472P3	Full Subpanel	92
EC-1472W	Writing Desk	22
EC-PS1420CN	Clamping Nut	0.2
EC-PS51618CN	Clamping Nut	0.2

Any custom size at any quantity is available for this enclosure model.

Oil Tight Console Cabinets

OTC Series Consoles

Catalog Number	Description	Shipping Weight
C-4024OTCB	40T x 24W Console Body	148
C-1624OTCT	16T x 24W Console Top	30
C-3624OTCB	36T x 24W Console Body	129
C-2024OTCB	20T x 24W Console Top	45
C-24 Desk	24" Wide Desk	10
C-3636OTCB	36T x 36W Console Body	188
C-2036OTCT	36T x 36W Console Top	64
C-36 Desk	36" Wide Desk	15
C-3648OTCB	36T x 48W Console Body	240
C-2048OTCT	20T x 48W Console Top	84
C-48 Desk	48" Wide Desk	19

Any custom size at any quantity is available for this enclosure model.



Oil Tight Console Cabinets

CAB Series Consoles

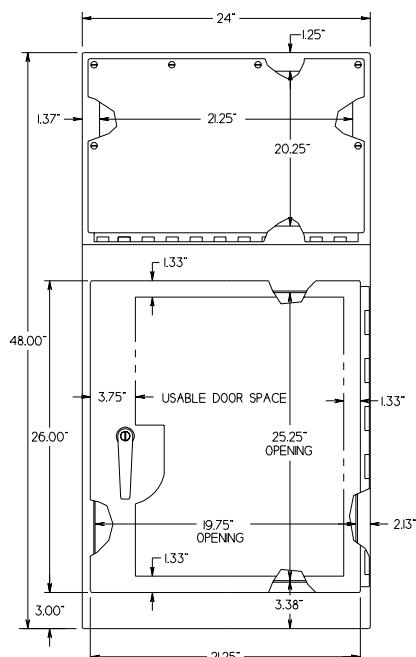
Catalog Number	Description	Shipping Weight
C-4824CAB	48T x 24W Console Body	124
E-3020P	30 x 20 Panel	16
C-Caster Kit F	Fixed Caster Kit	11
C-Caster Kit S	Swivel Caster Kit	11
C-Caster Kit C	Combo Caster Kit	11
C-4836CAB	48T x 36W Console Body	150
E-3030P	30 x 30 Panel	24

Any custom size at any quantity is available for this enclosure model.

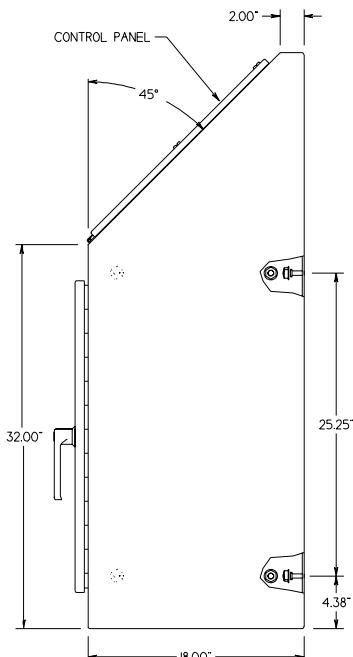
Oil Tight Console Cabinets

Oiltight NEMA 12 Console Cabinets

Series EC, OTC, and CAB



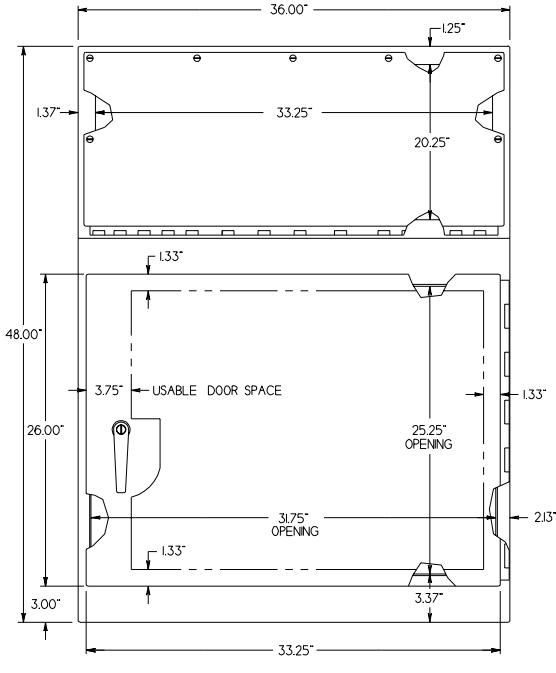
FRONT VIEW



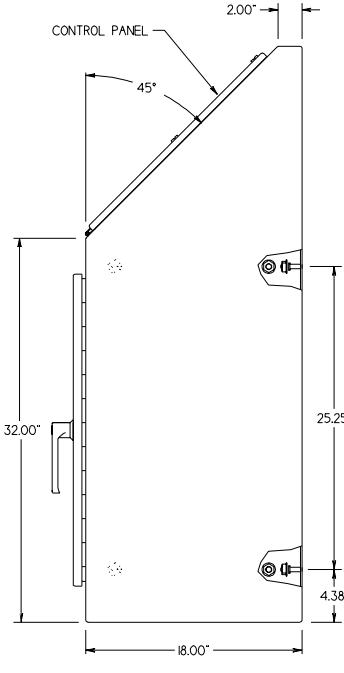
SIDE VIEW

27^h x 17^w SIDE PANEL(S) (OPTIONAL)
27^h x 15^w BACK PANEL (OPTIONAL)

C-4824CAB



FRONT VIEW

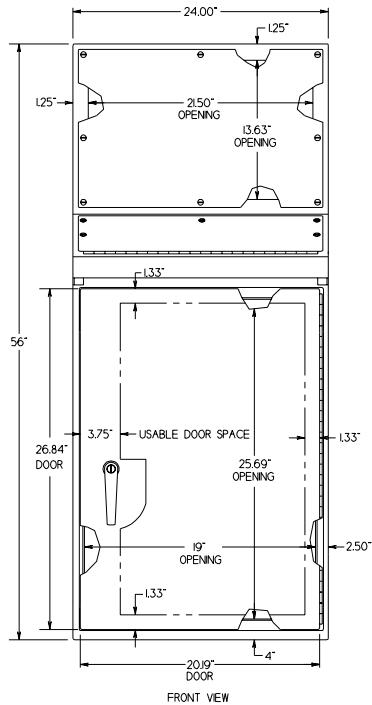


SIDE VIEW

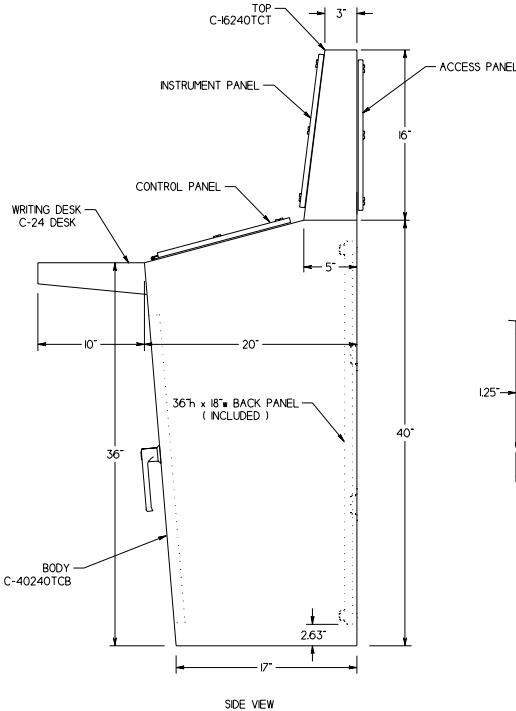
27^h x 17^w SIDE PANEL(S) (OPTIONAL)
27^h x 27^w BACK PANEL (OPTIONAL)

C-4836CAB

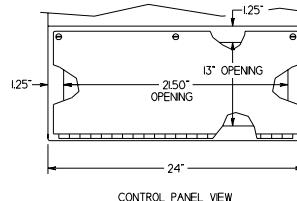
Series EC, OTC, and CAB



FRONT VIEW

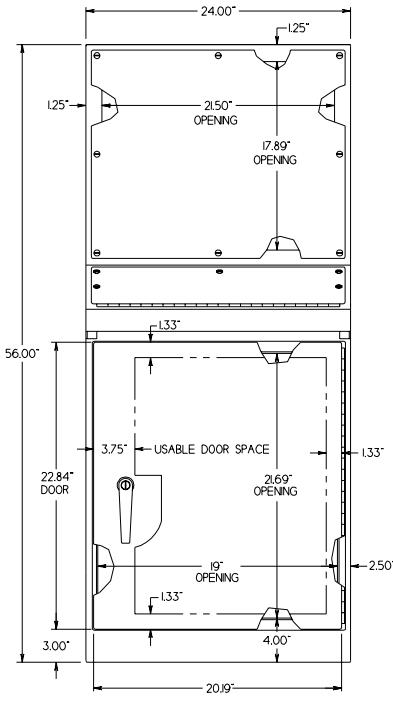


SIDE VIEW

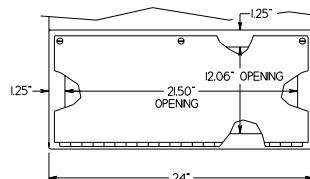
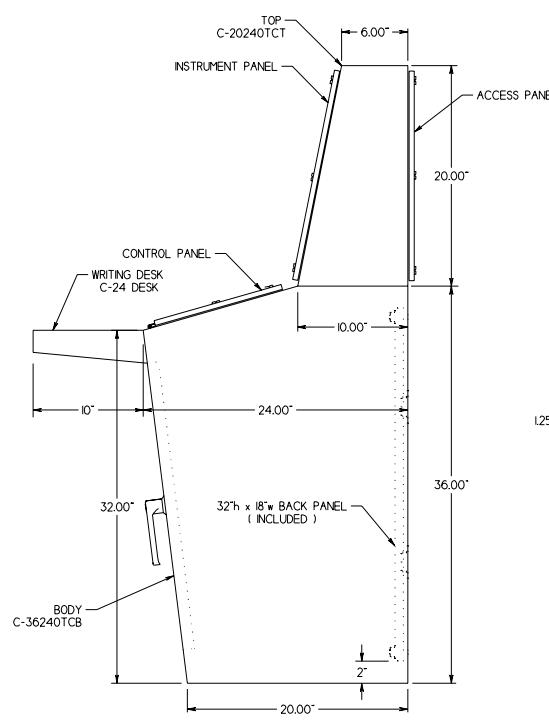


CONTROL PANEL VIEW

C-4024OTCB
with Top & Desk Shown



FRONT VIEW

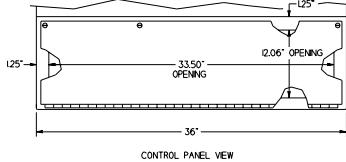
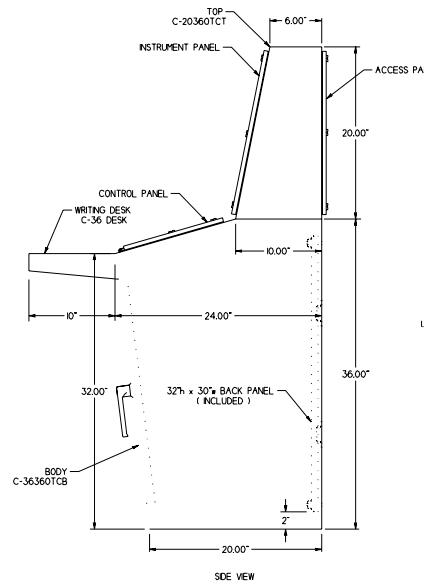
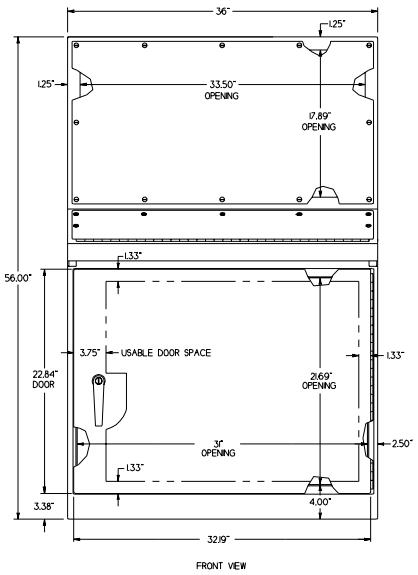


CONTROL PANEL VIEW

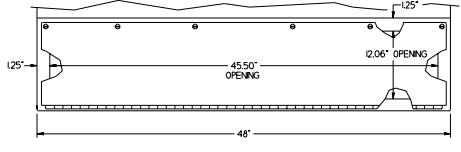
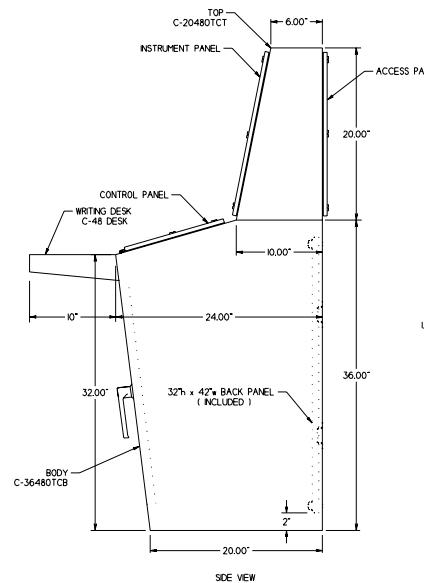
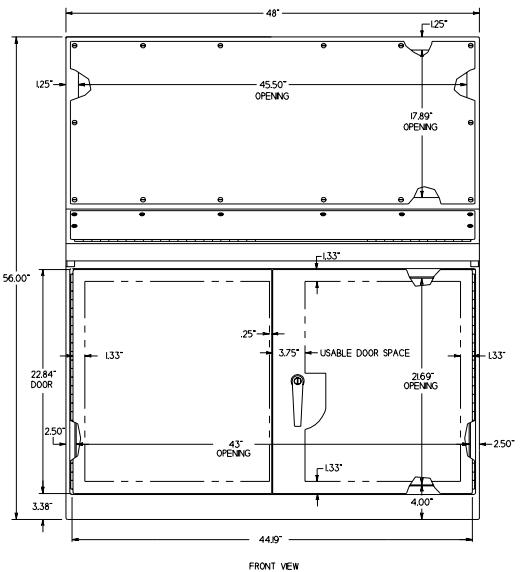
C-3624OTCB
with Top & Desk Shown

Oil Tight Console Cabinets

Series EC, OTC, and CAB

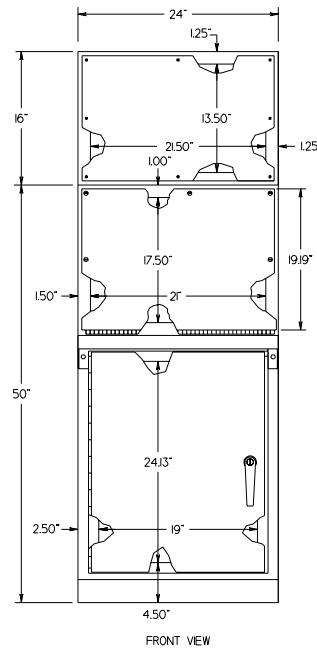


C-3636OTCB
with Top & Desk Shown

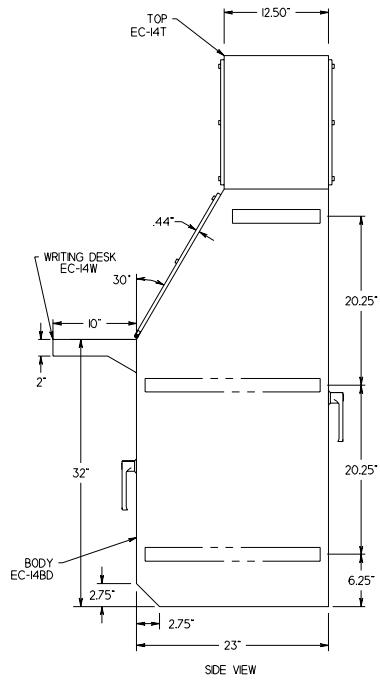


C-3648OTCB
with Top & Desk Shown

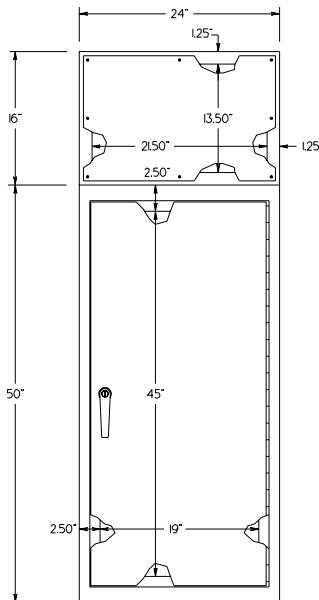
Series EC, OTC, and CAB



FRONT VIEW

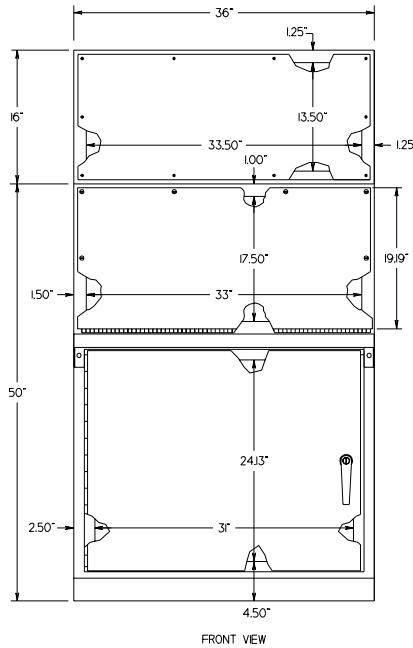


SIDE VIEW

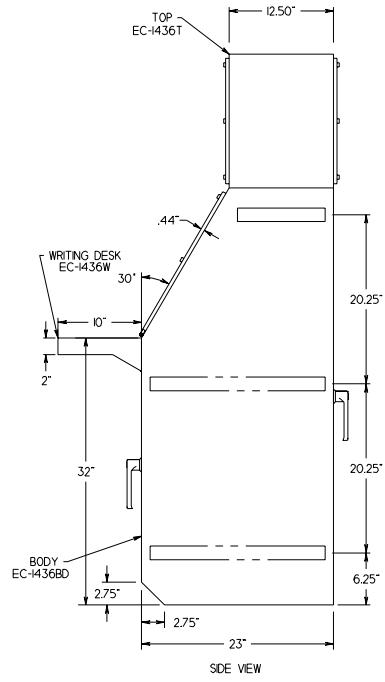


REAR VIEW

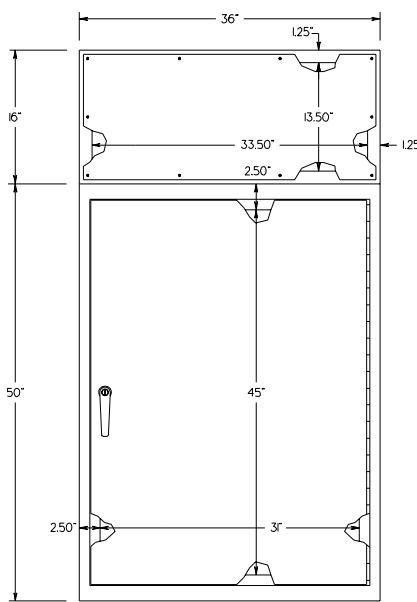
EC-148
with Top & Desk Shown



FRONT VIEW



SIDE VIEW

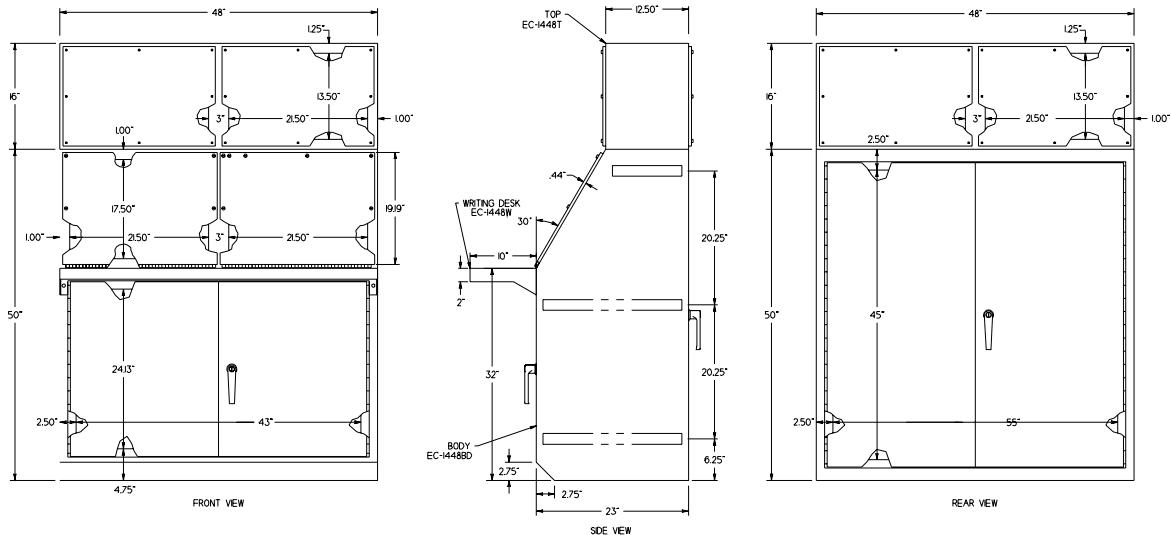


REAR VIEW

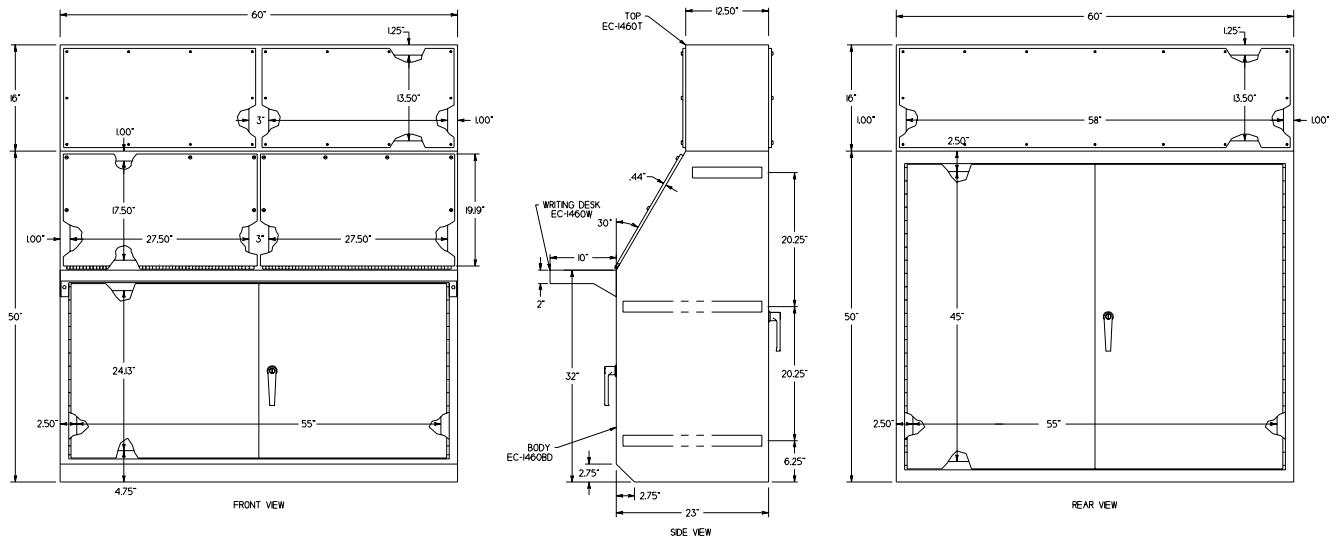
EC-1436B
with Top & Desk Shown

Oil Tight Console Cabinets

Series EC, OTC, and CAB

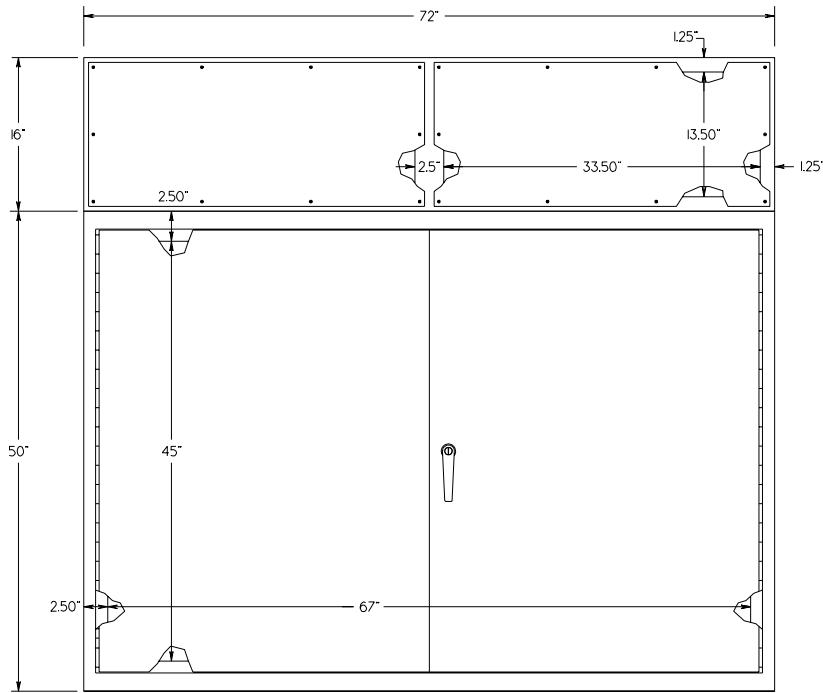
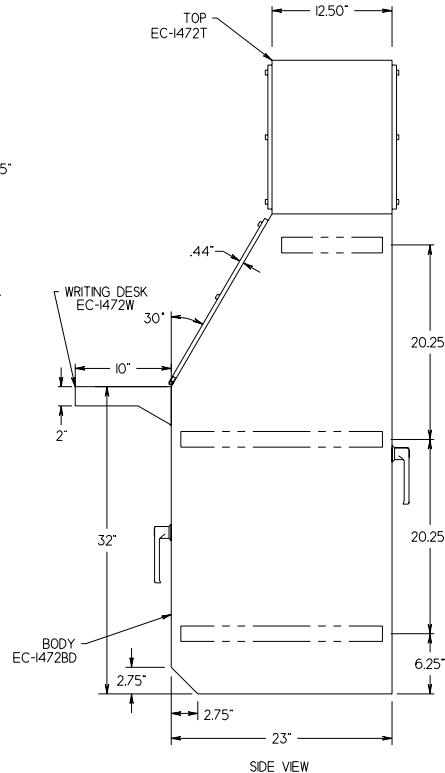
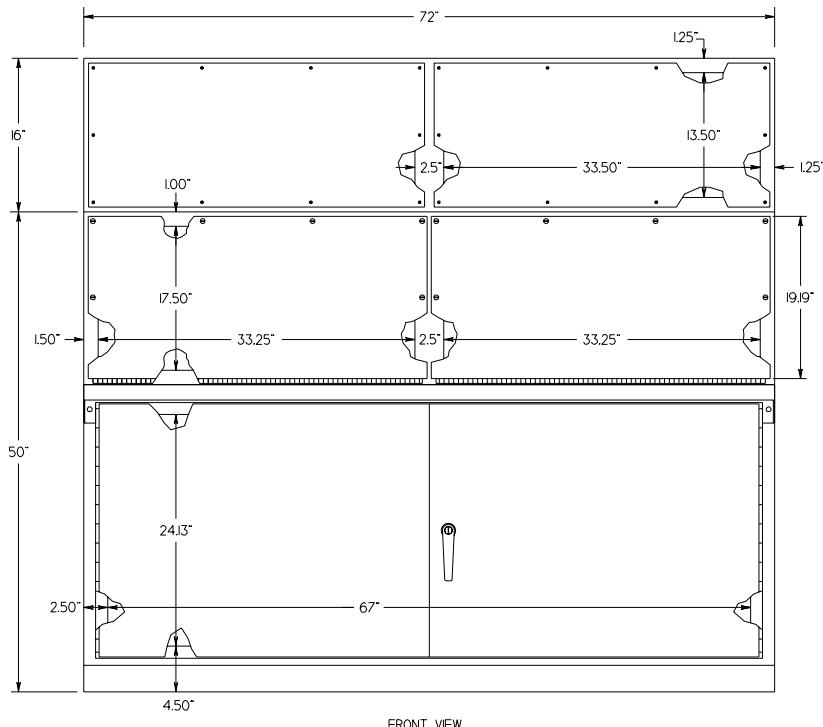


EC-144BD
with Top & Desk Shown



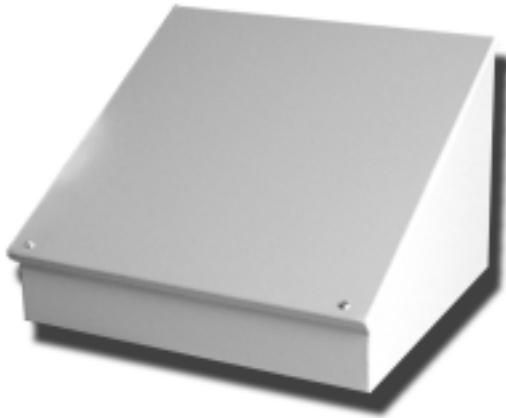
EC-1460BD
with Top & Desk Shown

Series EC, OTC, and CAB



EC-I472BD
WITH TOP & DESK SHOWN

Oil Tight NEMA 12 Consoles



Application

Oil Tight NEMA 12 Consoles are designed to be oil tight and dust tight. These enclosures are used for housing electrical and electronic controls, pilot lights, push-buttons, switches, meters, etc., mounted on the sloping control panel. The console may be mounted with the slope at 30 or 60 degrees.

Features

- 14 ga. steel
- Continuously welded seams
- Gasketed cover
- Continuously hinged control panel door fastened with captivated screws
- Meets NEMA 12, 13 and U.L. 508 standards
- U.L. Listed

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

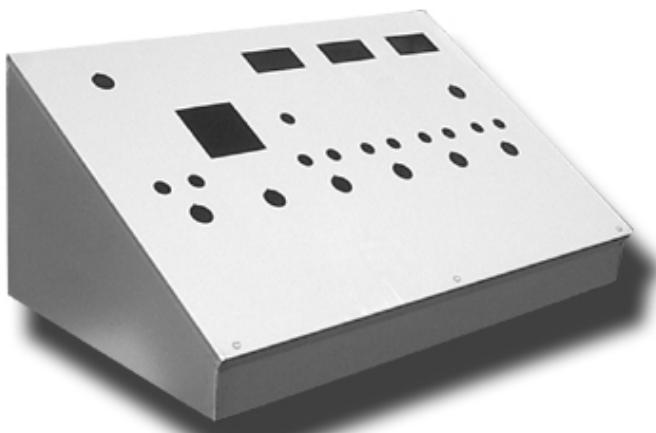
Accessories

See General Accessories Index page 151.

- Pedestals for floor mounting

Modifications

- Holes
- Knockouts
- Cutouts
- Special latching
- Aluminum
- Stainless
- Special sizes
- Louvers
- Panels
- NEMA 4X
- Lift-off hinge



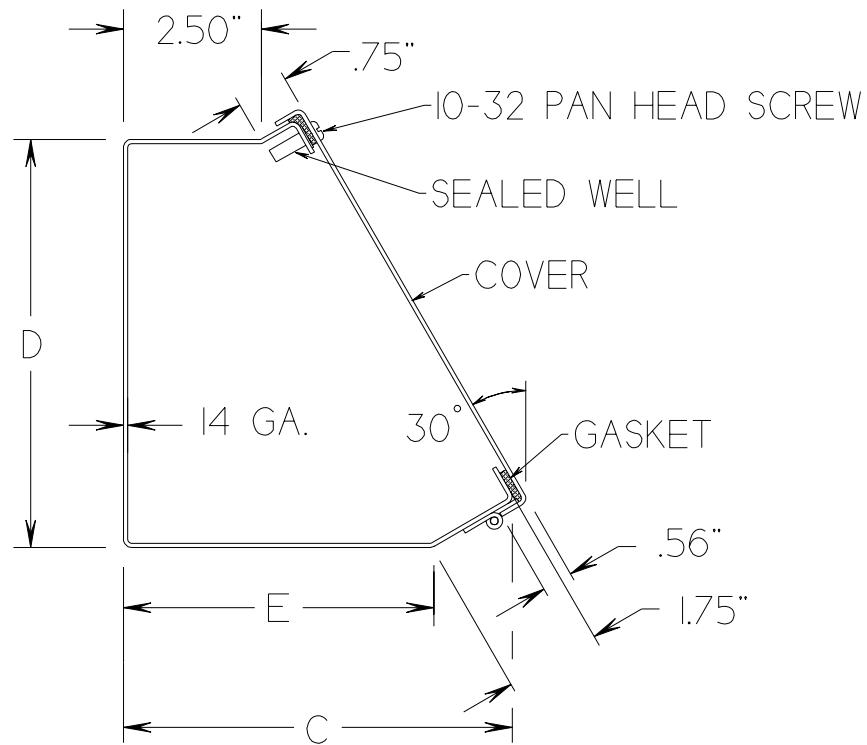
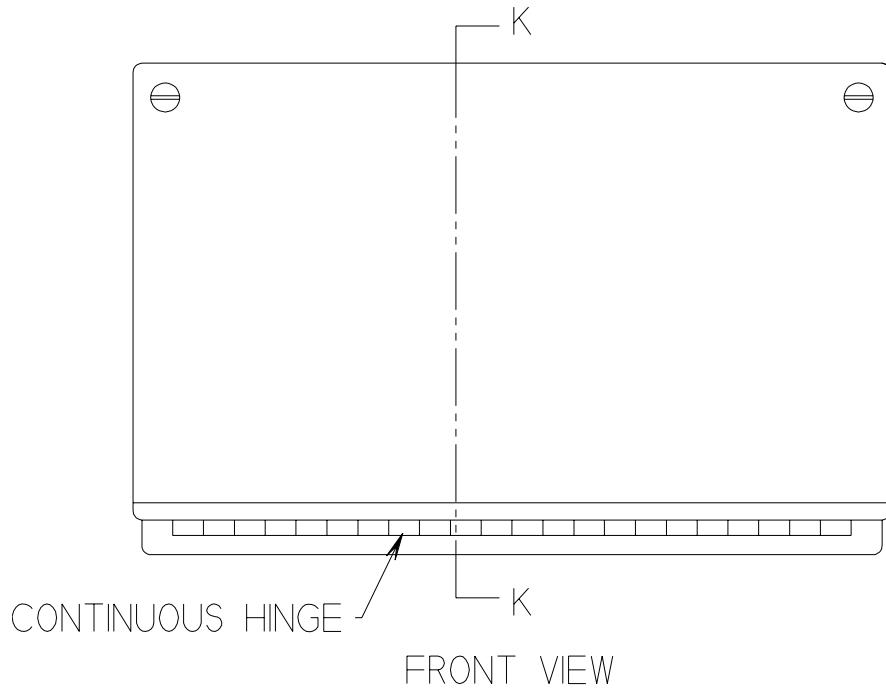
Custom Stainless Console

Oil Tight NEMA 12 Consoles

Catalog Number	Size A x B x C	Shipping Weight
C-88OTC	8 x 8 x 7.09	7
C-812OTC	8 x 12 x 7.09	10
C-816OTC	8 x 16 x 7.09	13
C-820OTC	8 x 20 x 7.09	17
C-1212OTC	12 x 12 x 9.09	15
C-1216OTC	12 x 16 x 9.09	17
C-1220OTC	12 x 20 x 9.09	21
C-1224OTC	12 x 24 x 9.09	26
C-1616OTC	16 x 16 x 11.09	24
C-1620OTC	16 x 20 x 11.09	27
C-1624OTC	16 x 24 x 11.09	32
C-1630OTC	16 x 30 x 11.09	39
C-1636OTC	16 x 36 x 11.09	45
C-2020OTC	20 x 20 x 13.09	36
C-2024OTC	20 x 24 x 13.09	42
C-2030OTC	20 x 30 x 13.09	49

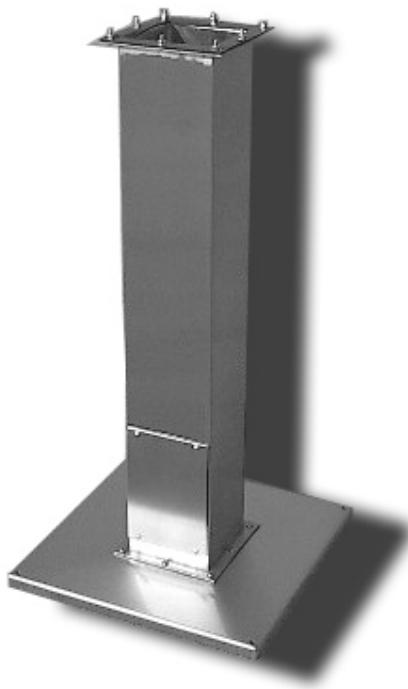
Any custom size at any quantity is available for this enclosure model.

"A" dimension is hinged side.



SECTION K - K

Floor-Mounted Pedestals for Pushbutton Enclosures and Consoles



Application

EMF Pedestals are used to mount most types of pushbutton and console enclosures. The choice of a straight or angled column put the control surface in convenient positions. Pedestals allow pushbutton and consoles to be floor-mounted.

Features

- 14 ga. steel
- 10 ga. flanges
- 10 ga. base
- Gasketed access plate and top flange
- Access plate
- Mounting screws provided
- Base fits all columns and can be floor-mounted

Finish

ANSI 61 grey polyester powder coat in and out over phosphatized surfaces.

Accessories

See General Accessories Index page 151.

Modifications

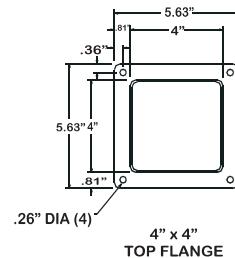
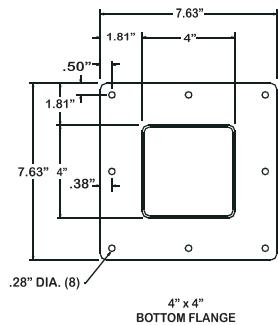
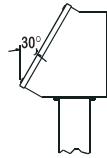
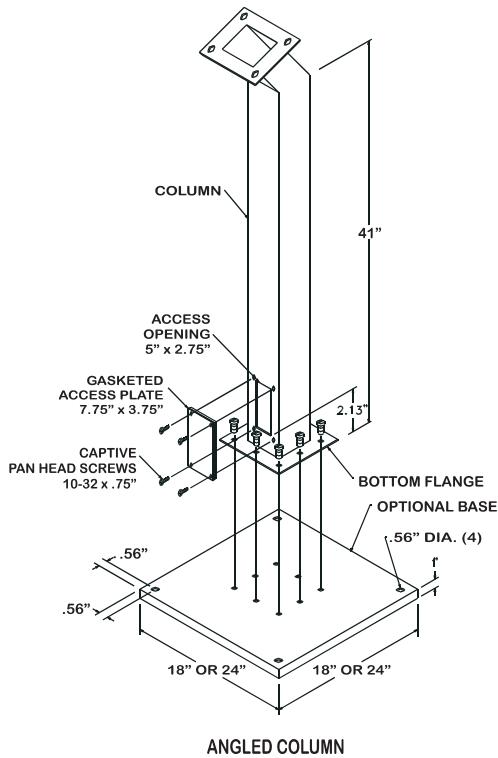
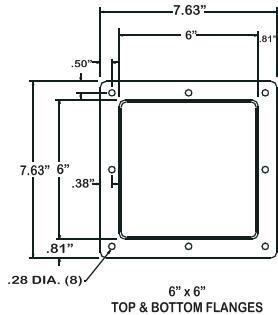
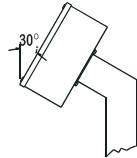
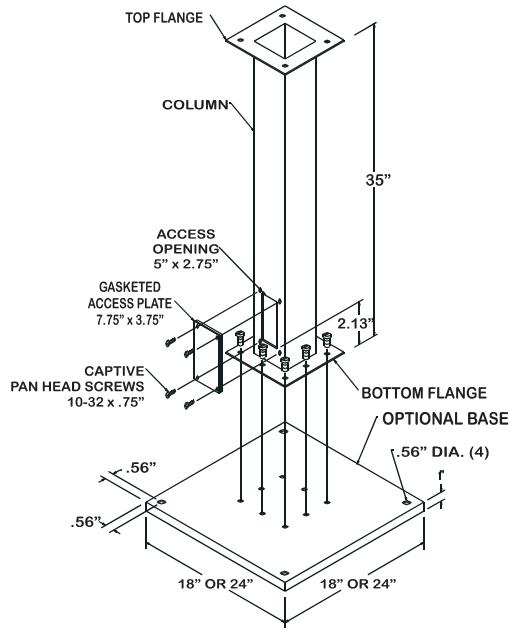
- Stainless steel
- Aluminum
- Special Paint
- Special sizes

Floor-Mounted Pedestals

Catalog Number	Size and Description	Shipping Weight
E-44COL	4x4 Straight Column	15
E-44COLA	4x4 Angled Column	18
E-66COL	6x6 Straight Column	21
E-66COLA	6x6 Angled Column	24
E-18BASE	18x18 Column Base	21
E-24BASE	24x24 Column Base	46

Any custom size at any quantity is available for this enclosure model.

Floor-Mounted Pedestals for Pushbutton Enclosures and Consolets



EMF Climate Control Products

Air Conditioners



Heat Exchangers



Fans/Vent Kits





General Terms and Warranty

Specifications, Terms & Price Changes - Liability

EMF reserves the right to discontinue any item, and to make changes in the specifications, terms and conditions or prices at any time without notice. Information furnished in this catalog is believed to be accurate and reliable at the time of printing. However, EMF assumes no responsibility or liability for its use, nor for the effect of future design or specification changes, nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of EMF.

Warranty

EMF's Climate Control Products are warranted to be free of defects in workmanship, materials and components. The following warranty periods apply:

- Air moving devices and components: 20,000 hours continuous duty
- Hermetic system components: One year continuous duty
- Nonoperating parts, except filters: Five years

The above warranty applies when the equipment is operated under the following conditions:

- Motor ambient temperature not in excess of 125°F (52°C) in normal atmosphere
- Voltage variation no greater than + 10% from nameplate rating
- Frequency variation no greater than + 3 Hz from nameplate rating

- Total temperature of all current-carrying components not in excess of 221°F (105°C)
- Maximum cooling load no higher than air conditioner nameplate rating
- Waiting five minutes before restarting air conditioner after intentional or accidental shutoff
- Compliance to all other installation, maintenance and operating instructions, as supplied.

EMF assumes no liability beyond the repair or replacement of its own product, returned transportation prepaid. This warranty does not cover:

- Labor or reimbursement for labor for removal or installation of any warranted part, except at an EMF facility
- Use of equipment for other than its designed purpose or operating conditions
- Operation in harsh, oily, corrosive or other abnormal environmental conditions, without the proper filtration, sealing, protective coatings and/or weather protection
- Damage to hermetic system resulting from continuous operation with dirty/clogged air filters
- Use of refrigerant other than designated
- Customer modification or abuse
- Shipping damage or other accident
- Any and all conditions resulting from noncompliance with the preceding operating conditions.

The purchaser assumes the responsibility of grounding the unit and installing it in accordance with local electrical and safety codes, as well as the National Electric Code (NEC) and OSHA.

This express warranty constitutes the entire warranty with respect to the product and is in lieu of all others, express or implied, including any warranty of merchantability and warranty of fitness for a particular purpose and in no event is EMF responsible for any consequential damages of any nature whatsoever.

Considerations

Heat producing components currently widely used in electronic and industrial equipment enclosures present the problem of dissipating the heat generated before damage can occur to heat-sensitive parts. In many cases, the problem can be solved by ventilation, using simple air moving devices. However, in more and more applications the available ambient air is too warm or too contaminated to be used for the safe dissipation of the unwanted heat. Under those conditions, the life expectancy and performance of sensitive components may be adversely affected, often causing equipment malfunctions, slowdowns, or failures.

In order to create the optimum environment for the application, an evaluation must be made of the anticipated adverse operating conditions and of the thermal and other requirements of the equipment or system.

Among the questions to be considered are:

1. Does the entire equipment/system require cooling, or is spot cooling adequate?
2. Are there any components that are particularly sensitive to heat or other adverse conditions?
3. How much heat is produced within the enclosure?
4. What is the maximum temperature allowable in the enclosure?
5. What are the typical and maximum temperature ranges of the ambient air?
6. Is control of a specific temperature range required?
7. Are there expectations of low ambient temperatures requiring supplemental heat?
8. What is the articulate and moisture content of the ambient air?
9. Does the ambient air contain dirt, oil, corrosives or other contaminants that are injurious to any enclosure contents?
10. Must the enclosure contents be isolated from the heat or contaminants in the ambient air by the use of a sealed enclosure?
11. Are special filters required for any reason?
12. Is an adequate supply of cool water available?

After these and any other application-specific factors are determined, a decision can be made about the type of ventilation or cooling required, and which specific equipment provides the most appropriate performance and cost-effective solution.

A little time and effort spent early in the design process in choosing the optimum cooling equipment can save a great deal of trouble and expense later, by preventing the need to retrofit with proper cooling devices in the field.

This Design Guide is not merely a compendium of product offerings. It is intended as a design aid to be used as a problem-prevention and problem-solving tool, with a broad array of equipment and specifications so that the best-suited items can be selected as the solutions for virtually every type of enclosure ventilation or cooling requirement.

The product line is broad. It ranges from basic Thin Fans to sophisticated Air-cooled and Water-cooled Air Conditioners. The complete product line is fully described and illustrated. Arranged by product groups, the Catalog section presents technical data, dimensions, discharge options and drawings for each series. Performance graphs are featured at the end of each product section. In addition, the Design section provides information that will be useful in determining the criteria for the proper selection, placement and design of the best system for your particular application.

The philosophy is to specify the smallest, least complex cooling device that will satisfy the requirements of the application.

Better by Design

Every product is the result of 40 years experience in the application of highly reliable rotating components to the science of aerodynamics and thermal transfer, enabling us to provide the most complete cooling design, performance, measurement and precision manufacturing services available in the industry.

Fans

Fans occupy minimal cabinet space and will move a substantial volume of air where flow is virtually unimpeded. Packaged fans can be used for filtered panel or rack-mounted cooling in such applications.

Blowers

Blowers are designed to operate against higher static pressures. Packaged blowers provide compact, filtered, rack-mounted cooling in a variety of airflow configurations.

Heat Exchangers and Air Conditioners

In applications where equipment operating temperatures must remain near or below ambient, or where airborne contaminants pose a threat to electronic components, the enclosure interior must be isolated from the external environment. For such applications, a sealed enclosure, with a Heat Exchanger or an Air Conditioner is required. Heat Exchangers are recommended for equipment which can tolerate operating temperatures moderately higher than ambient, while Air Conditioners are required where equipment temperatures must be maintained at or below ambient.

Meeting Design Challenges

THINK ABOUT COOLING...EARLY!

Cooling needs should be evaluated early in the design process. Nearly all systems require some degree of forced cooling. Early estimates of the location of components in the cabinet, the heat to be dissipated, and the amount of space needed for the cooling device will save time, trouble and expense.

AMBIENT AIR VS. CLOSED-LOOP COOLING

Keep it simple. If ambient air is cool and clean enough, use it. It's free. If the ambient is too hot, dirty or corrosive, a closed-loop system is needed. A Heat Exchanger is usually a lower-cost choice than an Air Conditioner. See if it will do the job. Don't over-cool. Don't oversize the cooling equipment.

PRESSURIZE, DON'T VACUUMIZE!

Pressurization of the cabinet is far more desirable than drawing the air out. Plan to pump filtered air INTO the cabinet, to gain the advantage of using cracks between panels, around doors or other small openings as part of the exhaust area rather than as sources for the intake of dust and dirt. If pressurization is impossible and a fan or blower must be used to exhaust the enclosure, a filter at the air inlet is recommended.

KEEP IT CLEAN

Nothing is more important than CLEAN filters. Clogged filters restrict airflow and cause motors, compressors, etc. to work harder and fail prematurely. Timely filter servicing is vital to your system.

KEEP INLET AND EXHAUST AIR FAR APART

Be sure that all of the exhaust area is located downstream, as far as possible from the air inlet and beyond all heat-producing components. An open-base cabinet sitting only one-quarter inch off the floor can waste a substantial percentage of cooling air even if the air is directed upward initially. A properly planned air path will avoid all "short circuits" or losses by forcing the cool supply air to pass through the components that are to be cooled before reaching the exhaust area. This will allow for a maximum of cooling efficiency.

LET NATURE HELP

Cooling air should enter the enclosure from as low as possible and leave the enclosure from above the highest hot component. Thus, the forced air flows upward through the heat-producing components and adds to the natural buoyancy of the heated air.

A "BOOSTER" CAN SAVE SPACE AND COST

A booster fan located downstream or at the outlet can draw added cooling power through densely packed components. It could permit the use of a smaller, quieter packaged blower than originally indicated, allowing more panel space for other uses.

ENTERING AIR NEEDS EXIT ROOM

The cross-section area of the airstream throughout the flow path in the cabinet should be at least equal to the effective area of the air intake. If this ratio is less, "choking" of the delivered air may result. On the basis of the average grille material, with 65% open or effective area, the following table gives the typical effective area which should be allowed for discharge.

19" Front Panel Intake	Circular Fan Intake
3.50" 28 sq. in.	6.50" 33 sq. in.
5.25" 47 sq. in.	8.00" 50 sq. in.
7.00" 68 sq. in.	9.00" 64 sq. in.
8.75" 85 sq. in.	9.50" 71 sq. in.
10.50" 100 sq. in.	10.00" 78 sq. in.

For intake and exhaust grille and filter grille assemblies, use the Accessories and Options section.

USE DUCTS FOR EVEN COOLING

If the maintenance of an even temperature from top to bottom of the enclosure is important, ducts along the sides of the enclosure offer an ideal solution. Multiple duct outlets allow precise control of the location and quantity of air delivered.

COMPONENT LOCATION

Where possible, locate heat sensitive electrical components toward the bottom of the enclosure, since the warmest air temperatures will be at the top. Maintain adequate spacing between components within the enclosure to minimize airflow restriction.

BAFFLES SOMETIMES WORK WONDERS

At times, an excessively hot component or an isolated area in the enclosure presents a problem in an otherwise well-cooled system. A baffle to channel air across the location is often the best solution.

VIBRATION ISOLATION

Neoprene vibration isolators minimize the possibility of trouble associated with vibration. All portions of a system will respond to periodic forces in varying degrees. This excitation can occur regardless of the balance or design of the air-moving equipment, since any given construction could be in harmony with any of the driving forces in the blower motor. If the sympathetic vibration level is unacceptable, slight weight change or redistribution will usually alleviate the problem.

Air Conditioners

Air Conditioners are required where the equipment operating temperature must be kept at or lower than the ambient room temperature, and/or the cabinet must be sealed from oil, dust, fumes and other contaminants.

Specially packaged vapor compression Air Conditioners (Figure A) protect the components and furnish the required cooling. Such Air Conditioners employ hermetic refrigeration systems with additional controls. They provide enclosure and air path geometries for direct installation to the equipment cabinet and accomplish the following:

1. Isolate the interior of the equipment enclosure from ambient conditions
2. Cool the air within the enclosure to the optimum temperature for the sensitive components
3. Circulate the air within the enclosure to equalize temperature and increase heat transfer from hot components
4. Automatically vary cooling rate to maintain close control of equipment temperature
5. Reduce humidity harmful to sensitive components

Air Conditioners that are used to cool enclosed equipment differ radically from room Air Conditioners. In the area of temperature control, for example, most electronic systems are adversely affected by large line transients typical of Air Conditioner compressor cycling. Electronics also exhibit sensitivity to electromagnetic interference caused by thermostat contacts. The control system of an Air Conditioning package must be designed accordingly.

In addition, the field experience of many compressor manufacturers has indicated that the frequent start/stop cycling, typical of standard Air Conditioner operation, shortens compressor life.

These factors have led to the development of techniques for close control of internal temperature over a wide range of ambient conditions, without turning the refrigeration compressor on and off and without employing electrically-controlled solenoid valves.

All temperature control for Air Conditioners is accomplished by means of proportioning valves activated by pressure signals within the Air Conditioner hermetic system. Generally, load temperature can be controlled to $\pm 5^{\circ}\text{F}$ over a range of power dissipation, without the use of thermostats. Frequent start/stop cycling of the compressor is eliminated, thus assuring longer compressor life.

Recent developments in temperature requirements for enclosed components has led to the addition of adjustable Low Temperature Control thermostats in all Air Conditioners to prevent overcooling. EMI/RFI suppressors are included to control the line transients associated with compressor cycling and thermostat operation.

Hermetic Air Conditioners are available in air-cooled and water-cooled models.

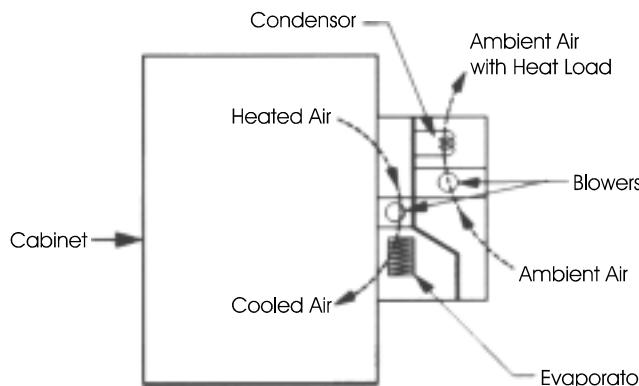
AIR-COOLED AIR CONDITIONERS

Heat removed from the enclosure containing hot components is discharged by circulating the ambient air through the condenser coil and returning the heated air to the ambient. There are vertical and horizontal types for exterior mounting to side panels, doors, or the top of the enclosures, and for various internal positions.

WATER-COOLED AIR CONDITIONERS

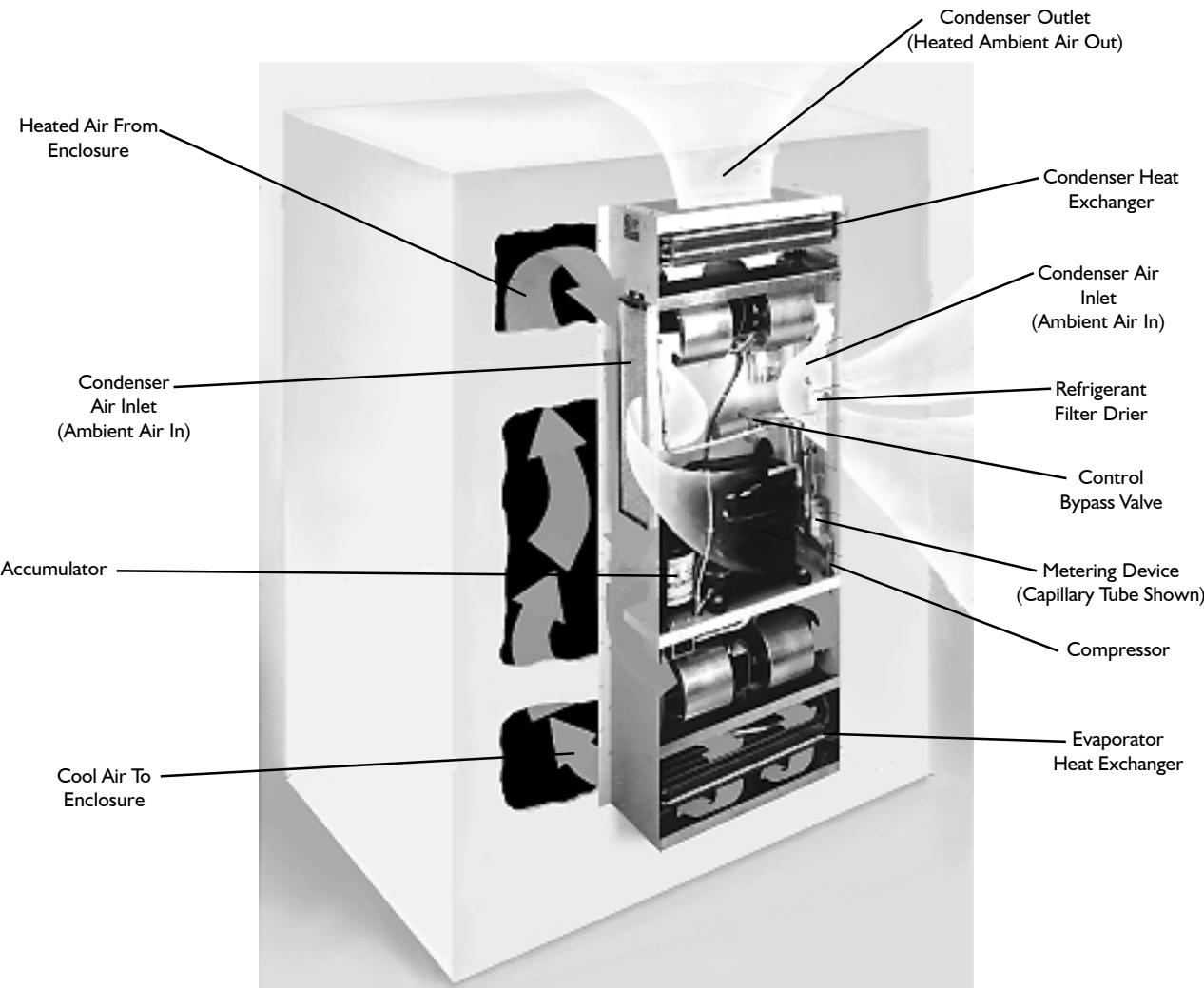
Intended primarily for extreme operating conditions of high-ambient temperatures or severe contaminants, these units utilize water as the medium for heat dissipation. The heat is absorbed by cool water circulating through a coaxial condenser coil, following which the heat-laden water is discharged or recirculated after cooling.

Figure A



In hermetic air conditioners, a condenser, evaporator, and two blowers combine to chill the air circulating in the enclosure.

Figure B



Heat is removed by enclosure Air Conditioners and discharged by means of the vapor compressor refrigeration cycle. This takes place in a hermetically sealed system, utilizing either an air-cooled or water-cooled condenser heat exchanger. A schematic of a typical Air Conditioner is presented in Figure 6.

The compressor forces refrigerant, in vapor form, into the condenser heat exchanger, where it is cooled either by ambient air, driven between the fins by a specially engineered blower, or by cool circulating water. As it cools, the refrigerant condenses into a liquid, which is passed through a filter to remove impurities and excess moisture. The liquid refrigerant flow is metered by a thermostatic expansion valve or capillary tube, to control its admission to the evaporator.

The thermostatic expansion valve is a feedback control device which regulates refrigerant flow on the basis of conditions sensed at the evaporator outlet. The capillary tube is a long, small-diameter tube which employs pressure differential and complex two-phase internal flow dynamics to meter refrigerant to the evaporator.

The refrigerant enters the evaporator as a liquid beginning to vaporize. As the blower-driven heated air from the enclosure passes through the evaporator heat exchanger, the refrigerant absorbs the heat and the conversion to vapor is completed. Any moisture present in the air is removed by condensation. This cool, dehumidified air is then returned to the cabinet.

After the heat absorption phase, the refrigerant passes into an accumulator, where any remaining unvaporized liquid is separated. The gas then returns to the compressor, to repeat the cycle in a continuous process.

The total heat rejected at the condenser is all of the heat entering the system from the enclosure at the evaporator heat exchanger, heat of compression and heat rejected by the compressor motor, since the compressor is cooled by the refrigerant gas returning from the evaporator.

Typical air temperatures during the cooling process are: cooled air to enclosure, 75°F; heated air returning from enclosure, 100°F; ambient air cooling condenser, 105°F; air rejected from condenser, 140°F.

VAPOR COMPRESSION CYCLE

TEMPERATURE CONTROL

Typical refrigeration and Air Conditioning systems control temperature by on/off compressor cycling as air temperatures fluctuate between minimum and maximum thermostat settings. Compressor start-up often introduces substantial transients into the circuit powering the equipment to be cooled. Thermostat or relay operation results in electromagnetic interference. Both of these factors can adversely affect the function of electronic equipment. On/off compressor control necessitates choosing between large temperature excursions or frequent compressor cycling.

Furthermore, frequent start/stop operation exposes internal compressor components to electrical and mechanical strains not encountered during continuous operation. The use of electrical controls to handle high compressor start-currents results in eventual erosion of the control contacts themselves.

In order to eliminate the possibility of these problems, Air Conditioners feature a continuously operating compressor and nonelectric proportional control system, which result in more stable equipment temperatures and prolonged life for the compressor and the control system. Both blowers and the compressor start simultaneously with the application of power to the unit, and continue to operate until power is removed at the time of equipment shutdown.

The control bypass valve, shown in Figure B, permits refrigerant, in gas phase, to be injected at the inlet to the evaporator heat exchanger. This high-temperature, high-energy gas presents an artificial heat load and permits the effective cooling rate to be varied as necessary to maintain essentially constant temperature of the air returned to the enclosure. (It is normally factory set to deliver air at approximately 70°F.) This control also prevents evaporator freeze-ups during periods of low heat load or low ambient temperature.

Although the above control system works effectively at most times, there are instances of over-cooling due to low heat load or low ambient temperature. In order to prevent that condition, Low Temperature Control thermostats and EMI/RFI suppressors have been added.

When activated, the Low Temperature Control shuts off the compressor and condenser (ambient side) blowers. The evaporator (enclosure side) blowers continue to circulate the air through the enclosure and Air Conditioner. When the air temperature again reaches the level at which cooling is needed, the compressor and condenser blowers resume operation.

AMBIENT TEMPERATURE RANGE

Most Air Conditioners are designed to operate at ambient temperatures ranging from 50°F to 131°F. Optional Low Ambient Kits allow operation in ambient temperatures as low as 0°F.

Maximum operating ambient temperature decreases linearly with altitude at the rate of 3°F per 1,000 feet between 2,500 and 7,500 feet, where maximum operating ambient temperature is 110°F. The ability to operate at high ambient temperatures permits Air Conditioners to be installed in close proximity to furnaces and other heat-producing equipment.

For applications in ambient temperatures higher than the rated maximum, consultation with the Engineering Department often provides the solution.

CONDENSATION

High ambient relative humidity does not affect the rated capacities of Air Conditioners. They are designed for installation on reasonably tight enclosures of relatively limited internal volume.

Normally, only sensible heat loads are imposed on the Air Conditioner. Even at an ambient temperature of 95°F and a relative humidity of 100%, the air within a typical electronic equipment enclosure 2 1/2 feet square and 6 feet high will contain only a small amount of water in vapor form. As the temperature of the air being circulated within the enclosure is reduced from 95°F to 70°F, the water will be condensed quickly in the evaporator heat exchanger and be disposed of through the drain in the condensate tray at the bottom of the Air Conditioner.

Unless the enclosure is totally sealed, some slow invasion of ambient air will take place through cracks and seams in the cabinetry and the front panels. However, even at ambient relative humidities of 100%, the infiltration rate is normally so small that the effect on cooling capacity of latent heat of water vapor condensation in the infiltrating air is negligible.

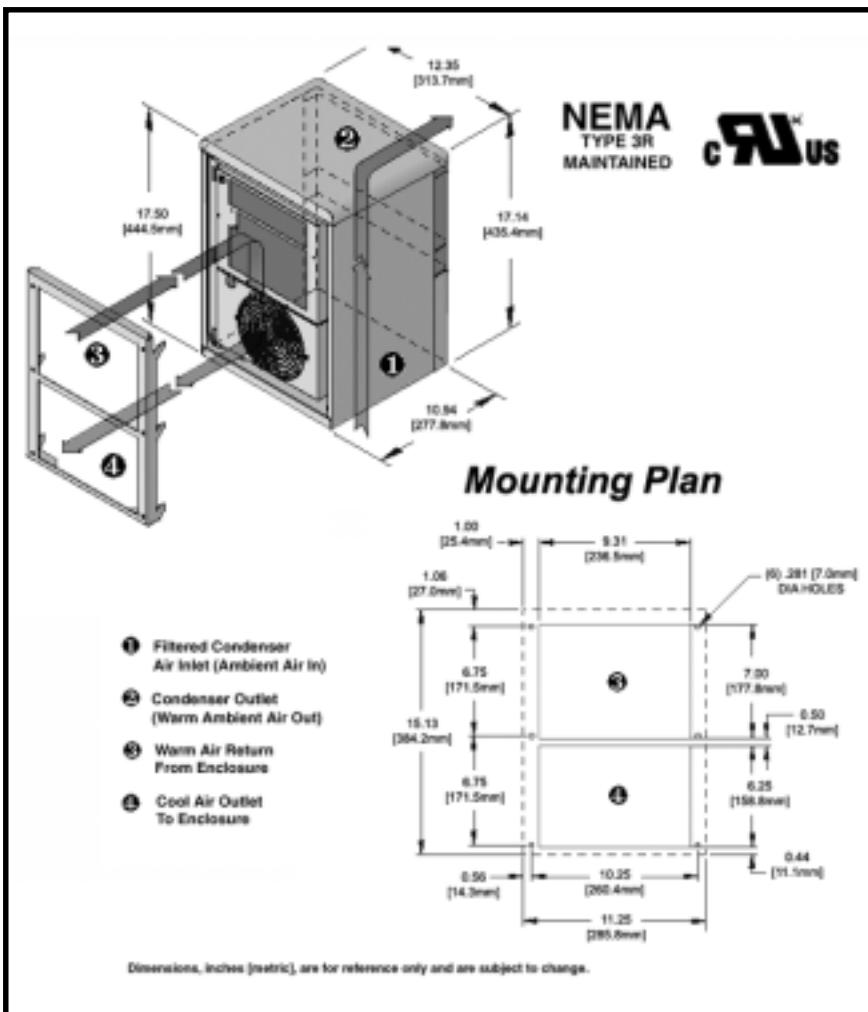
Cooling performance of the Air Conditioner is reduced if its capacity is used for the condensation of excessive moisture. This occurs if the enclosure is poorly sealed or is open for long periods, under high humidity conditions. A continuous flow of condensate denotes that these adverse conditions are present and should be remedied immediately.

Advantage RP17 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Textured Baked Powder Finish
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- Crankcase Compressor Heater
- Digital Temperature Display
- EMI/RFI Suppressor
- Head Pressure Control Switch
- Heavy-duty Steel Enclosure
- Low Ambient Kit
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps. F°	Ambient Temps. C°	Volts.	Hz.	AMPS	Weight
AC-RP17A1000	1000	Recognized	125/0	51.7/-17.8	115/100	60/50	7.0/7.5	64LBS/29.1 KG
AC-RP17B1000	1000	Recognized	125/0	51.7/-17.8	230/200	60/50	4	64LBS/29.1 KG
AC-RP17A2000	2000	Recognized	125/0	51.7/-17.8	115/100	60/50	7.0/7.5	64LBS/29.1 KG
AC-RP17B2000	2000	Recognized	125/0	51.7/-17.8	230/200	60/50	4	64LBS/29.1 KG

ACCESSORIES AND OPTIONS

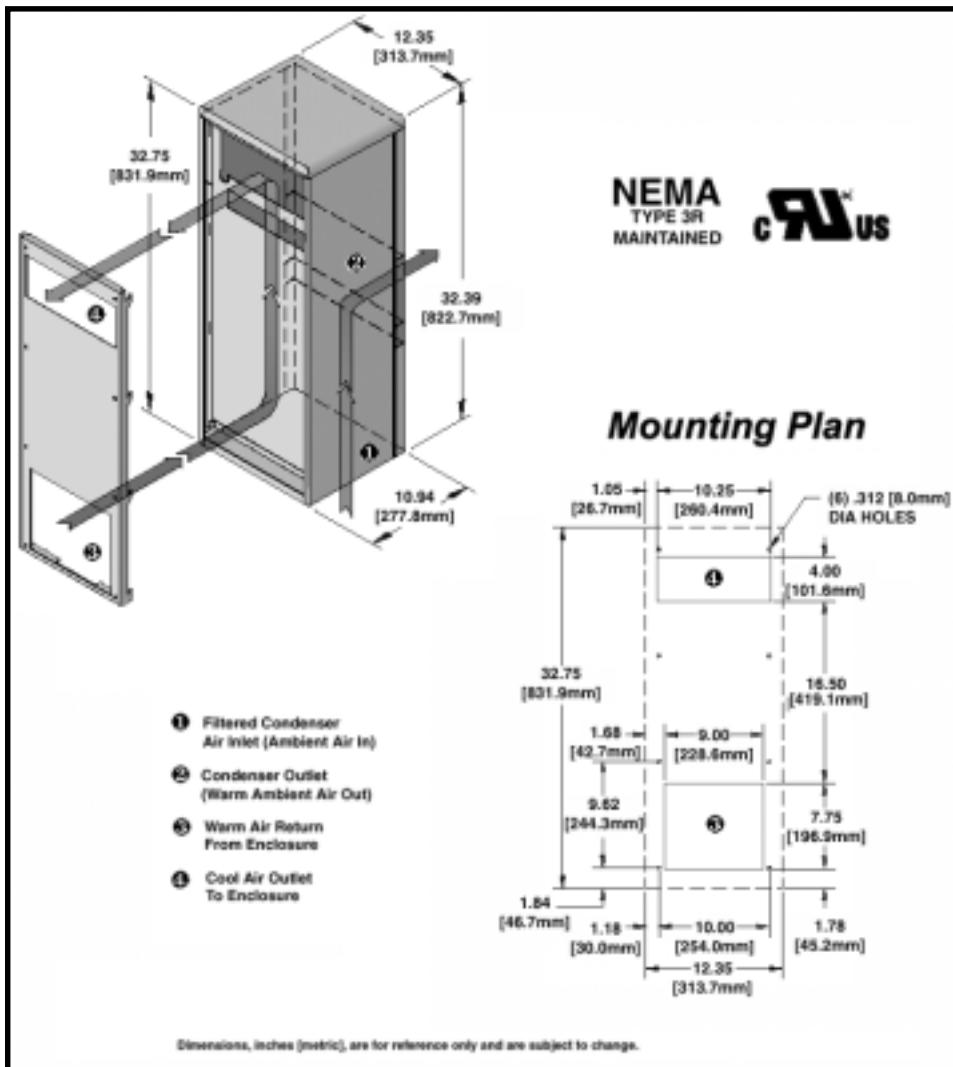
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters for replacement
- Internal corrosion protection
- Power Loss Delayed Compressor Start
- Special paint finishes

Advantage RP33 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Textured Baked Powder Finish
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- Crankcase Compressor Heater
- Digital Temperature Display
- EMI/RFI Suppressor
- Head Pressure Control Switch
- Heavy-duty Steel Enclosure
- Low Ambient Kit
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps. F° C°	Volts.	Hz.	AMPS	Weight
AC-RP33A2000	2000	Recognized	125/0 51.7/-17.8	115/100	60/50	13.6/13.3	98LBS/44.5 KG
AC-RP33B2000	2000	Recognized	125/0 51.7/-17.8	230/200	60/50	5.8	98LBS/44.5 KG
AC-RP33A4000	4000	Recognized	125/0 51.7/-17.8	115/100	60/50	13.6/13.3	98LBS/44.5 KG
AC-RP33B4000	4000	Recognized	125/0 51.7/-17.8	230/200	60/50	5.8	98LBS/44.5 KG

ACCESSORIES AND OPTIONS

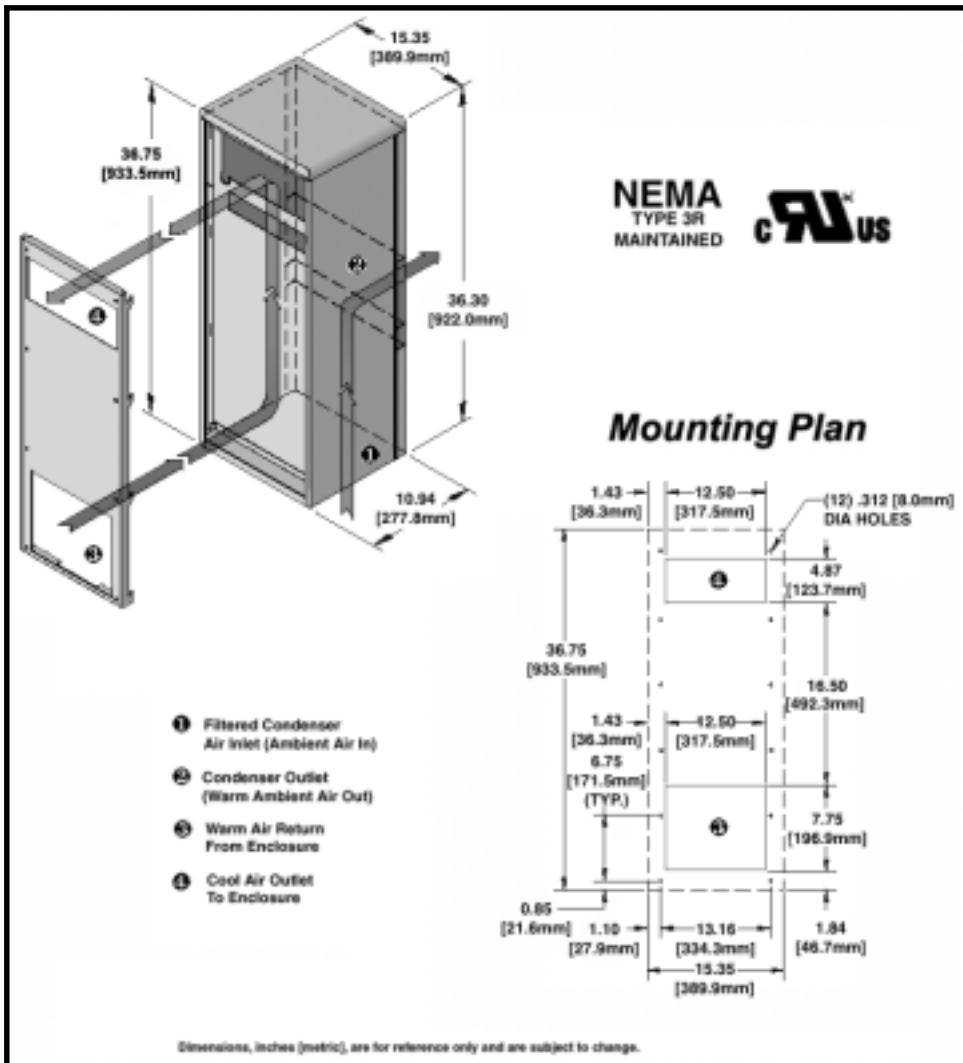
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters For Replacement
- Internal Corrosion Protection
- Power Loss Delayed Compressor Start
- Special Paint Finishes

Advantage RP36 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Textured Baked Powder Finish
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- Crankcase Compressor Heater
- Digital Temperature Display
- EMI/RFI Suppressor
- Head Pressure Control Switch
- Heavy-duty Steel Enclosure
- Low Ambient Kit
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m](minimum) SJT 3-wire Cord
- UL/CUL Recognized



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps. F°	C°	Volts.	Hz.	AMPS	Weight
AC-RP36A4000	4000	Recognized	125/0	51.7/-17.8	115/100	60/50	19.5/20.0	123LBS/55.9 KG
AC-RP36B4000	4000	Recognized	125/0	51.7/-17.8	230/200	60/50	8.2/8.5	123LBS/55.9 KG
AC-RP36A6000	6000	Recognized	125/0	51.7/-17.8	115/100	60/50	19.5/20.0	123LBS/55.9 KG
AC-RP36B6000	6000	Recognized	125/0	51.7/-17.8	230/200	60/50	8.2/8.5	123LBS/55.9 KG

ACCESSORIES AND OPTIONS

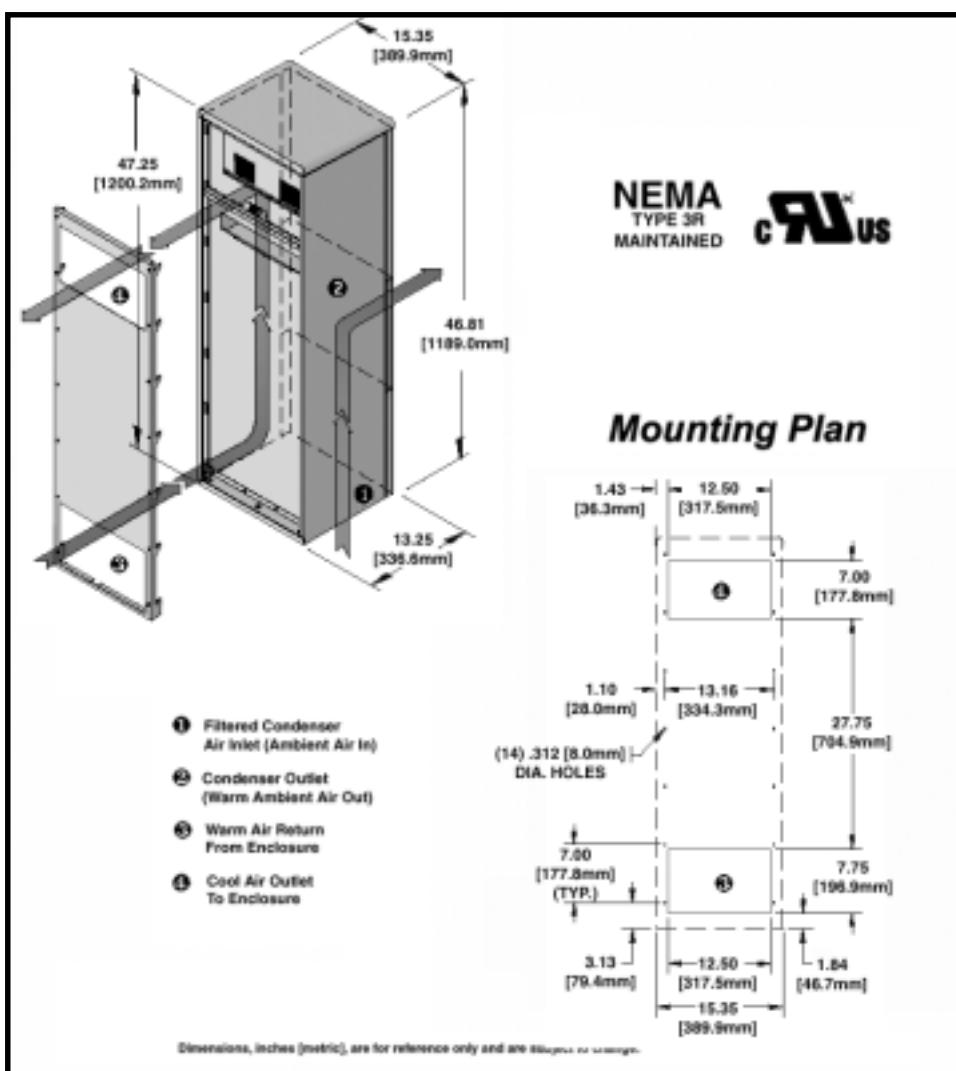
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters For Replacement
- Internal Corrosion Protection
- Power Loss Delayed Compressor Start
- Special Paint Finishes

Advantage RP47 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Textured Baked Powder Finish
- Built-in Condensate Evaporator
- Low-ODP Refrigerant
- Closed-Loop Cooling
- Crankcase Compressor Heater
- EMI/RFI Suppressor
- Head Pressure Control Switch
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m](minimum) SJT 3-wire Cord
- UL/CUL Recognized



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps. F°	C°	Volts	Hz.	AMPS	Weight
AC-RP47A8000	8000	Recognized	125/0	51.7/-17.8	115/100	60/50	12.2/12.7	150LBS/68.2 KG
AC-RP47B8000	8000	Recognized	125/0	51.7/-17.8	230/200	60/50	5.7/5.9	150LBS/68.2 KG
AC-RP47A10000	10000	Recognized	125/0	51.7/-17.8	115/100	60/50	19.8/19.1	150LBS/68.2 KG
AC-RP47B10000	10000	Recognized	125/0	51.7/-17.8	230/200	60/50	9.1/9.0	150LBS/68.2 KG
AC-RP47A12000	12000	Recognized	125/0	51.7/-17.8	115/100	60/50	19.8/19.1	150LBS/68.2 KG
AC-RP47B12000	12000	Recognized	125/0	51.7/-17.8	230/200	60/50	9.1/9.0	150LBS/68.2 KG

ACCESSORIES AND OPTIONS

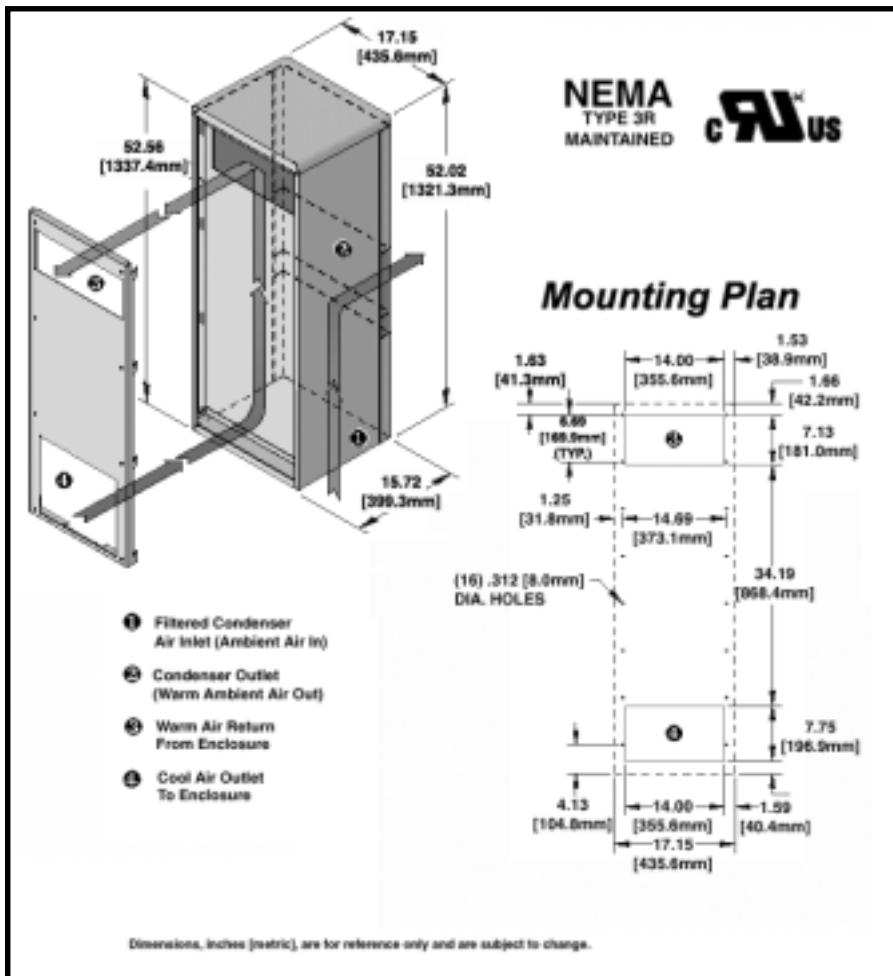
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters For Replacement
- Internal Corrosion Protection
- Power Loss Delayed Compressor Start
- Special Paint Finishes

Advantage RP52 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Textured Baked Powder Finish
- Built-in Condensate Evaporator
- Low-ODP Refrigerant
- Closed-Loop Cooling
- Crankcase Compressor Heater
- Digital Temperature Display
- EMI/RFI Suppressor
- Head Pressure Control Switch
- Heavy-duty Steel Enclosure
- Low Ambient Kit
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m](minimum) SJT 3-wire Cord
- UL/CUL Recognized



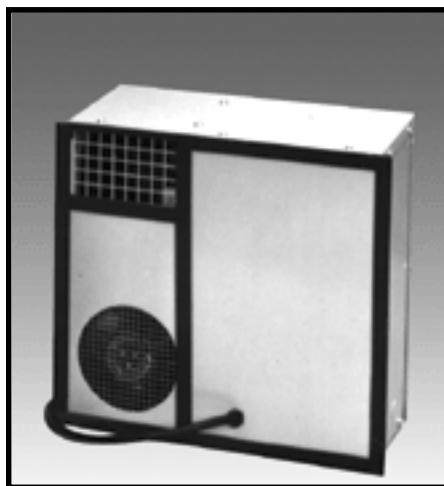
CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps. F° C°	Volts.	Hz.	AMPS	Weight
AC-RP52B14000	14000	Recognized	120/0 48.9/-17.8	230/200	60/50	17.5	280LBS/127.3 KG
AC-RP52B16000	16000	Recognized	120/0 48.9/-17.8	230/200	60/50	17.5	280LBS/127.3 KG
AC-RP52B18000	18000	Recognized	120/0 48.9/-17.8	230/200	60/50	17.5	280LBS/127.3 KG

ACCESSORIES AND OPTIONS

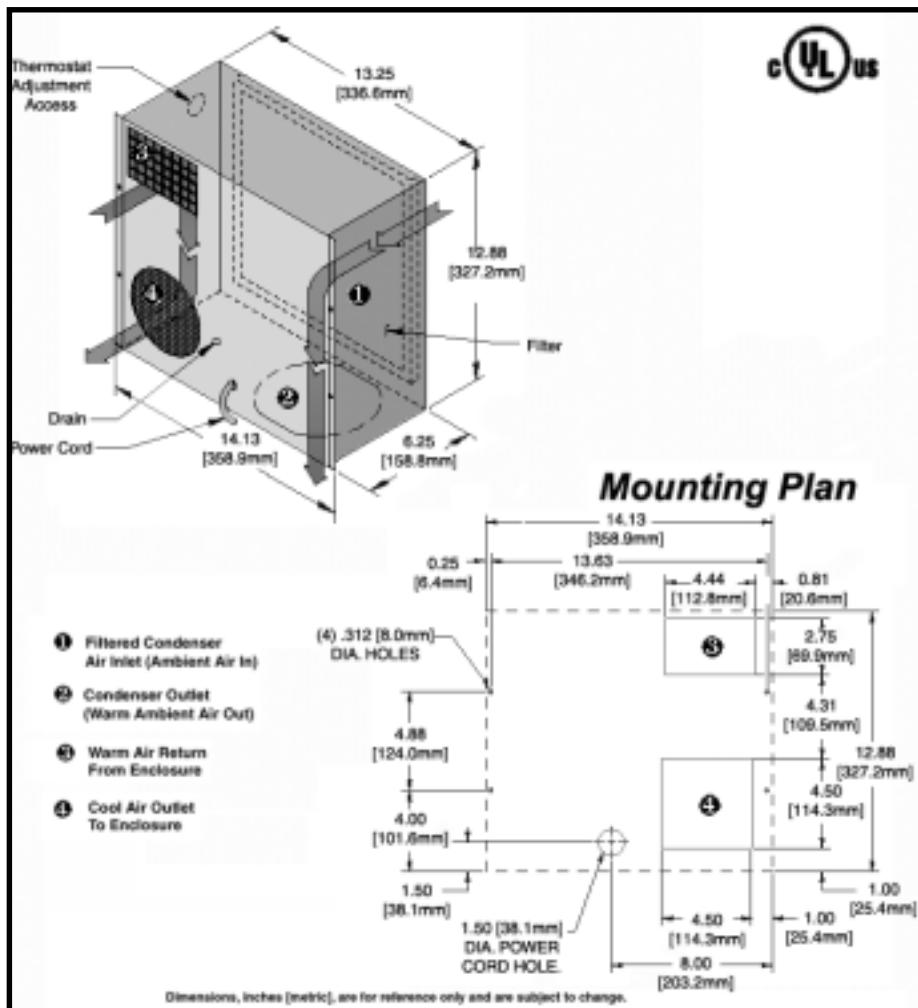
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters For Replacement
- Internal Corrosion Protection
- Power Loss Delayed Compressor Start
- Special Paint Finishes

Micro-Mini Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	BTU/H	UL Status	Temps		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-1.2MML	1200	Listed	125/50	51.7/10.0	115/100	60/50	4.5	43LBS/19.5 KG

ACCESSORIES AND OPTIONS

- Adapter Plate for Rack Mounting
- Compressor Heater
- Condensate Evaporator
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for replacement
- Internal corrosion protection
- Lifting Eyes
- Low Ambient Kit & Compressor Heater
- Mounting Hinge
- Short Cycle Protector
- Special Materials or finishes
- Power Loss Delayed Compressor Start
- Special paint finishes



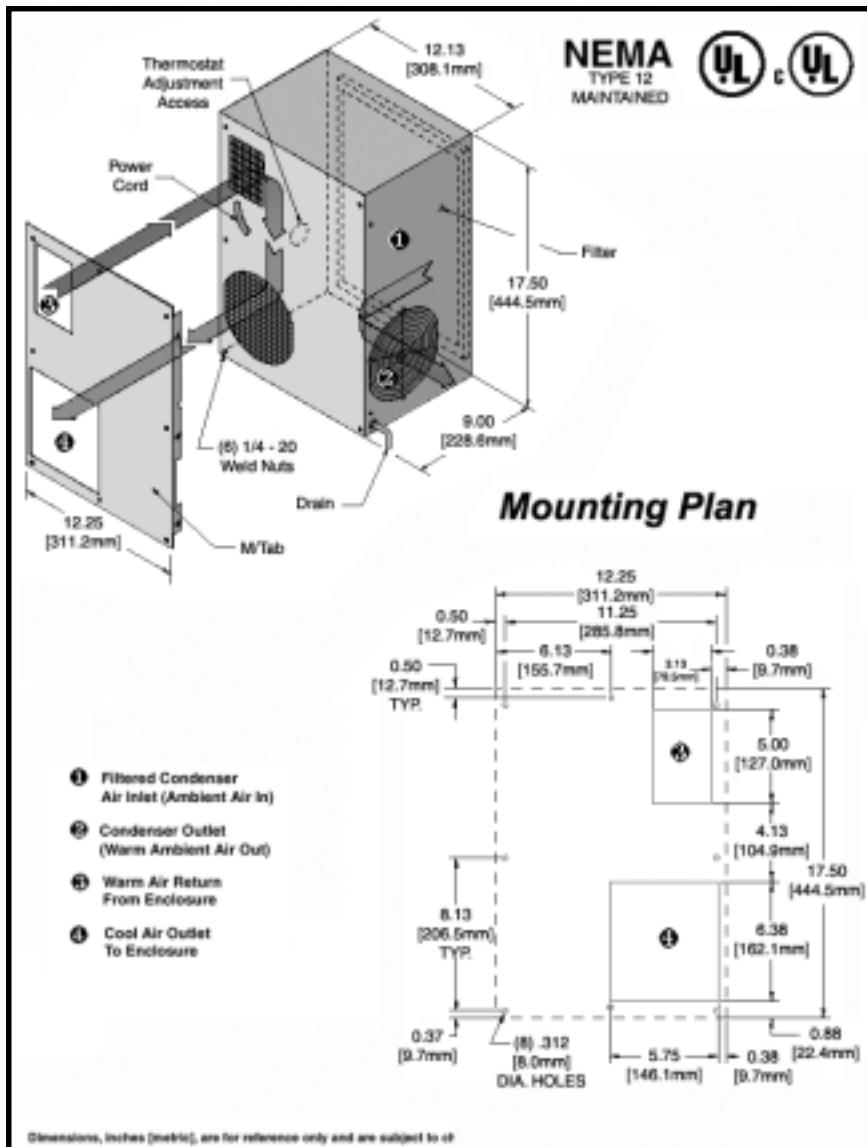
TrimLine 17 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- *Baked Powder Finish*
 - *Built-in Condensate Evaporator*
 - ***CFC-Free Refrigerant***
 - *Closed-Loop Cooling*
 - *EMI/RFI Suppressor*
 - *Heavy-duty Steel Enclosure*
 - *Low Temperature Control Thermostat*
 - *M/TAB Mounting System*
 - ***NEMA 12 Rating Maintained (UL50*)***
 - *Permanent Filters*
 - *Six Foot [1.8m](minimum) SJT 3-wire Cord*
 - *UL/CUL Listed*

**Weld-nut mounting method, without M/TAB*



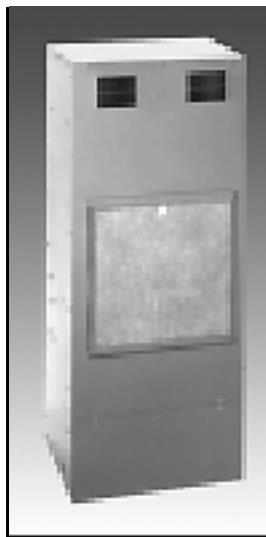
CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps.		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-2.0NP17L	2000	Listed	125/50	51.7/10.0	115/100	60/50	6.7/6.5	59LBS./26.8 KG

ACCESSORIES AND OPTIONS

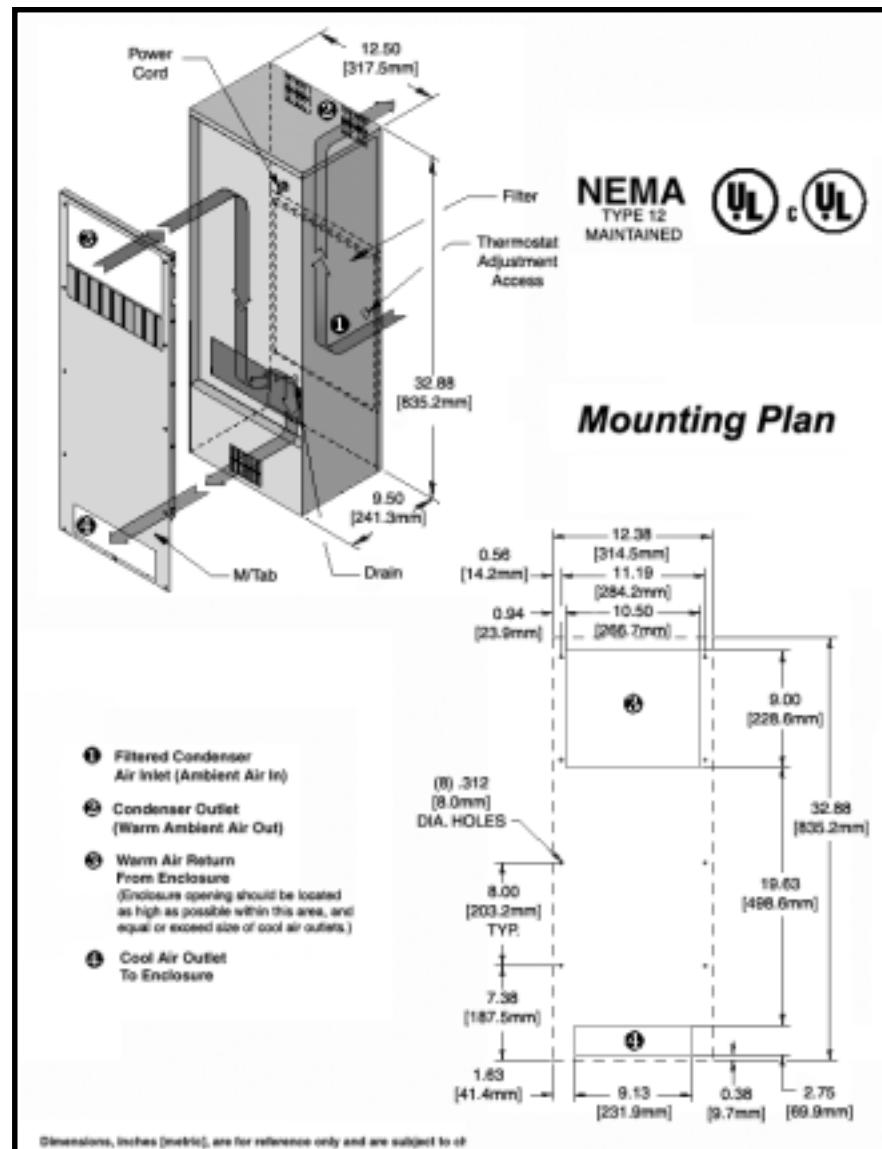
- **Compressor Heater**
 - **Cooling Effect Detector**
 - **Enclosure Heater**
 - **Filter Recoating Adhesive**
 - **Filters for Replacement**
 - **Internal Corrosion Protection**
 - **Lifting Eyes**
 - **Low Ambient Kit & Compressor Heater**
 - **Short Cycle Protector**
 - **Special Materials or Finishes**
 - **Special Motors, Line Cords or Connectors**
 - **Stainless or Aluminum Cabinet**
 - **Switchable 230V, 50/60 Hz**
 - **Weather Protection Kit**

TrimLine 33 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- Built-in Condensate Evaporator
- CFC-Free or Low ODP Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Reversible Condenser Outlet Blower
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-4NP33L	4000	Listed	125/50	51.7/10.0	115/100	60/50	12.8	90LBS./40.9 KG

ACCESSORIES AND OPTIONS

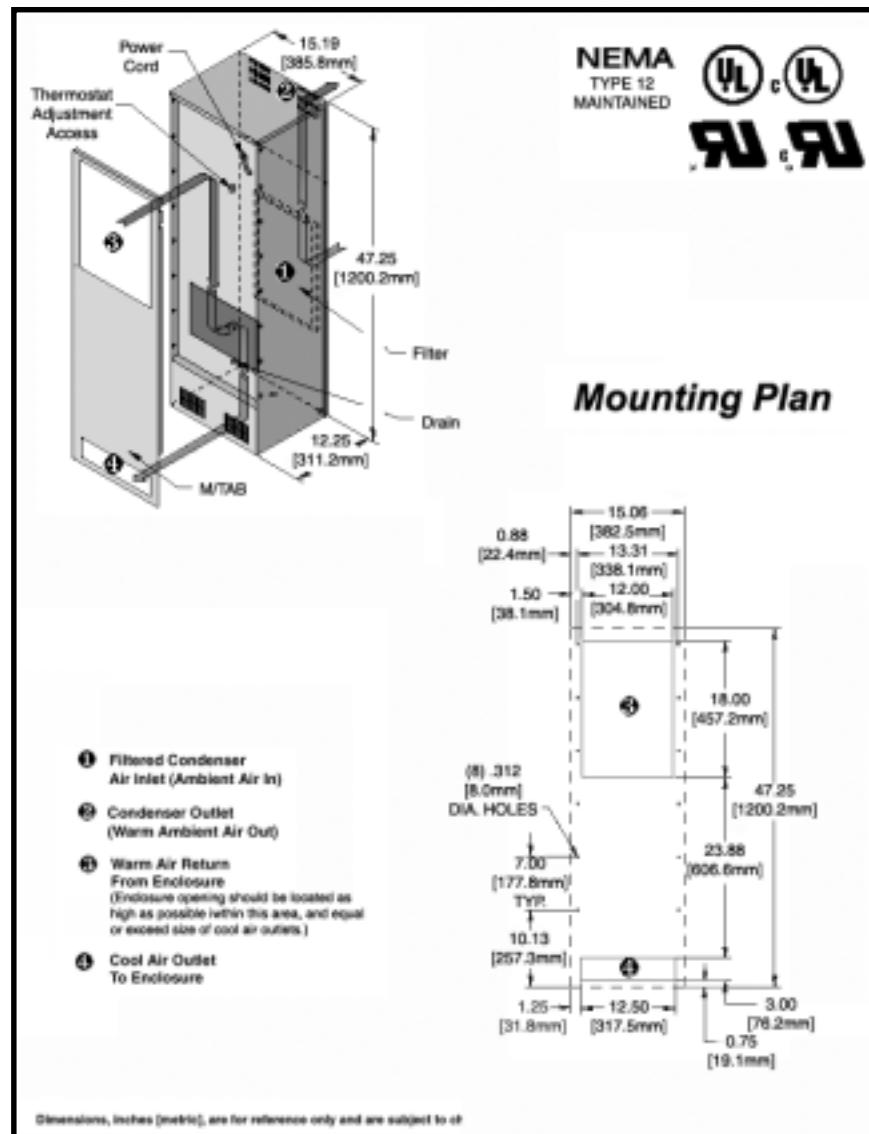
- Compressor Heater
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters for Replacement
- Internal Corrosion Protection
- Lifting Eyes
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors
- Stainless or Aluminum Cabinet
- Switchable 230V, 50/60 Hz
- Weather Protection Kit

TrimLine 47 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- Built-in Condensate Evaporator
- CFC-Free or Low ODP Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Reversible Condenser Outlet Blower
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed/Recognized



Mounting Plan

CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps.		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-6NP47L	6000	Recognized	125/50	51.7/10.0	115/100	60/50	16.5	160LBS/72.7 KG
AC-8NP47L	6000	Recognized	125/50	48.9/10.0	115/100	60/50	19.2/18.6	160LBS/72.7 KG
AC-10NP47L	10000	Recognized	120/50	48.9/10.0	115/100	60/50	19.2/18.6	160LBS/72.7 KG
AC-12NP47L	12000	Listed	125/50	51.7/10.0	230/200	60/50	11.8	160LBS/72.7 KG

ACCESSORIES AND OPTIONS

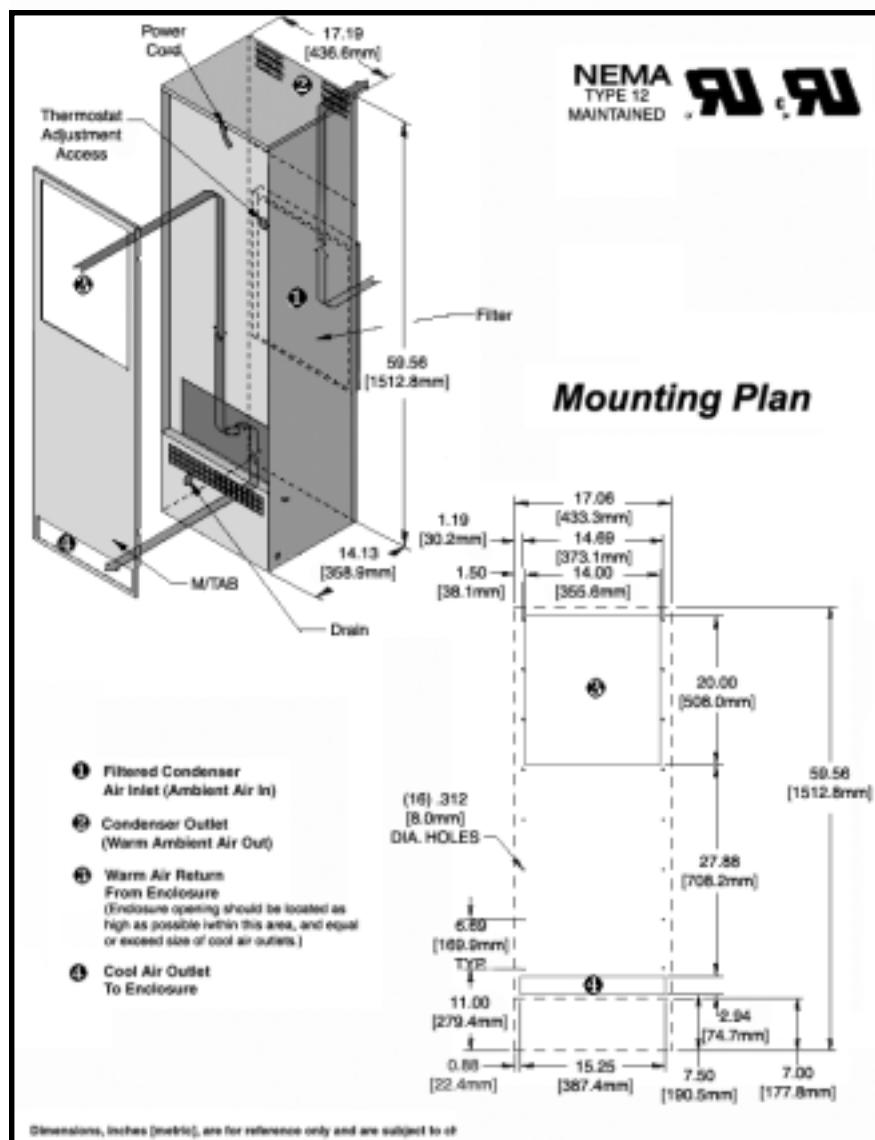
- Compressor Heater
- Cooling Effect Detector
- Deep Drain Pan Kit
- Enclosure Heater
- Filter Recoating Adhesive
- Filters for Replacement
- Internal Corrosion Protection
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors
- Stainless or Aluminum Cabinet
- Switchable 230V, 50/60 Hz
- Weather Protection Kit

TrimLine 59 Series Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- Built-in Condensate Evaporator
- Low ODP Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- M/TAB Mounting System
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Reversible Condenser Outlet Blower
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Recognized



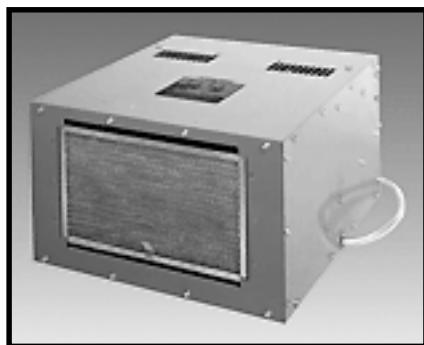
CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-14NP59L	14000	Recognized	125/50	51.7/10.0	230/200	60/50	22.0/22.3	250LBS/113.6 KG
AC-16NP59L	16000	Recognized	125/50	51.7/10.0	230/200	60/50	22.0/22.3	250LBS/113.6 KG
AC-18NP59L	18000	Recognized	125/50	51.7/10.0	230/200	60/50	22.0/22.3	250LBS/113.6 KG
AC-20NP59L	20000	Recognized	125/50	51.7/10.0	230/200	60/50	22.0/22.3	250LBS/113.6 KG

ACCESSORIES AND OPTIONS

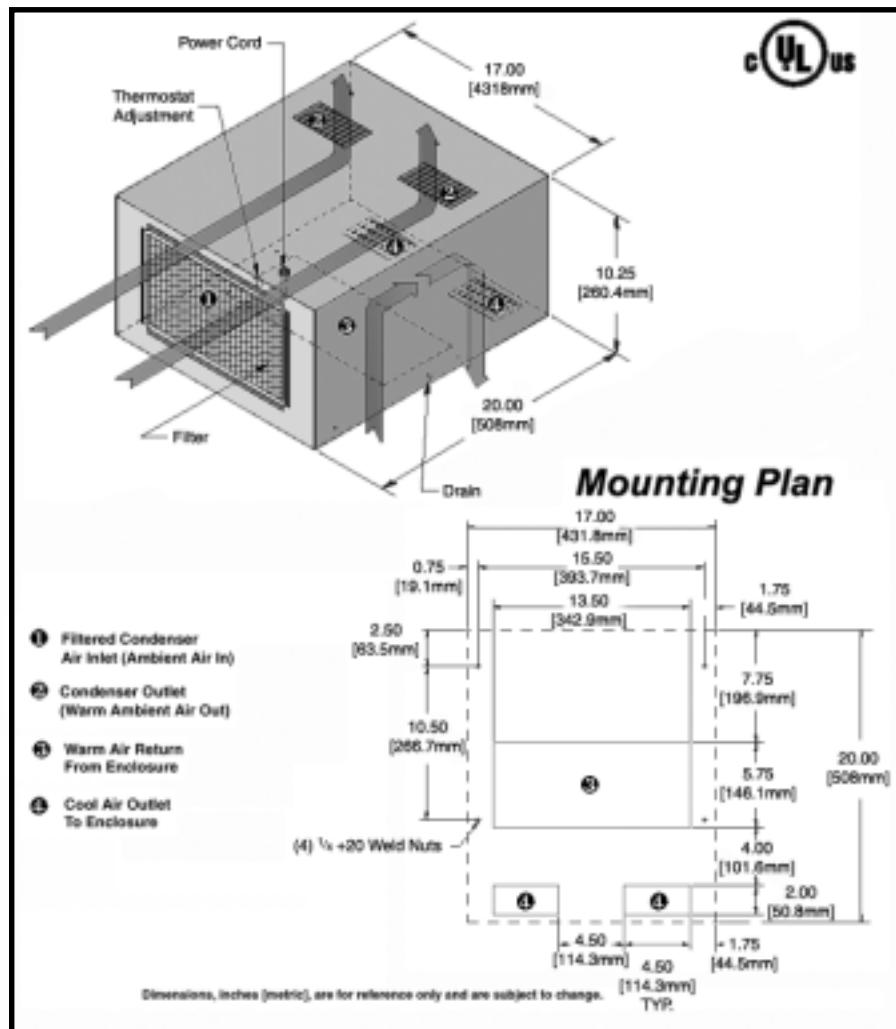
- | | | |
|-----------------------------|---------------------------------------|--|
| • Compressor Heater | • Internal Corrosion Protection | • Special Materials or Finishes |
| • Cooling Effect Detector | • Lifting Eyes | • Special Motors, Line Cords or Connectors |
| • Deep Drain Pan Kit | • Low Airflow Detector | • Stainless or Aluminum Cabinet |
| • Enclosure Heater | • Low Ambient Kit & Compressor Heater | • Switchable 230V, 50/60 Hz |
| • Filter Recoating Adhesive | • Short Cycle Protector | • Weather Protection Kit |
| • Filters for Replacement | | |

Horizontal Air-Cooled Top-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



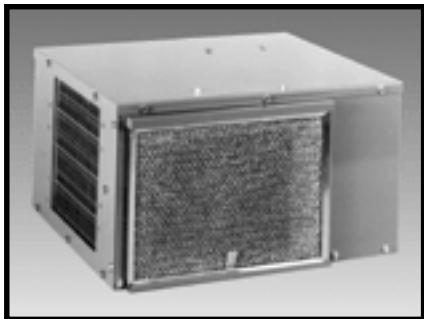
CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-4HTL	4000	Listed	125/50	51.7/10.0	115/100	60/50	13.1	85LBS./38.6 KG

ACCESSORIES AND OPTIONS

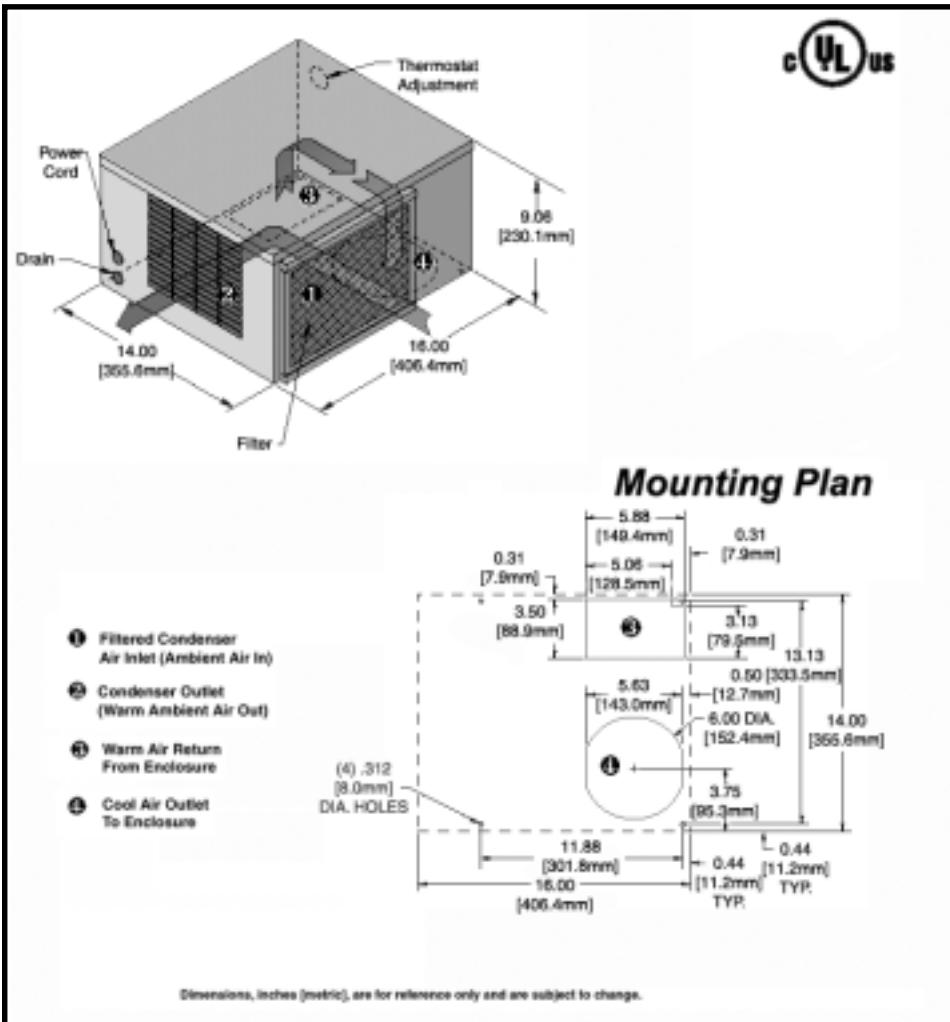
- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters for Replacement
- Internal Corrosion Protection
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit
- Special Motors, Line Cords or Connectors
- Short Cycle Protector
- Special Materials or Finishes
- Stainless or Aluminum Cabinet

Horizontal Super-Mini Air-Cooled Top-Mounted Air Conditioners



STANDARD FEATURES

- Baked Powder Finish
- Ball-bearing Motors
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Heavy-duty Steel Enclosure
- Low Temperature Control Thermostat
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

MODEL	BTU/H	UL STATUS	AMBIENT TEMPS.		VOLTS.	Hz.	AMPS	WEIGHT
			F°	C°				
AC-1HSL	1000	LISTED	125/50	51.7/10.0	115/100	60/50	6.7	58LBS./26.4 KG
AC-2HSL	2000	LISTED	125/50	51.7/10.0	115/100	60/50	6.7	58LBS./26.4 KG

ACCESSORIES AND OPTIONS

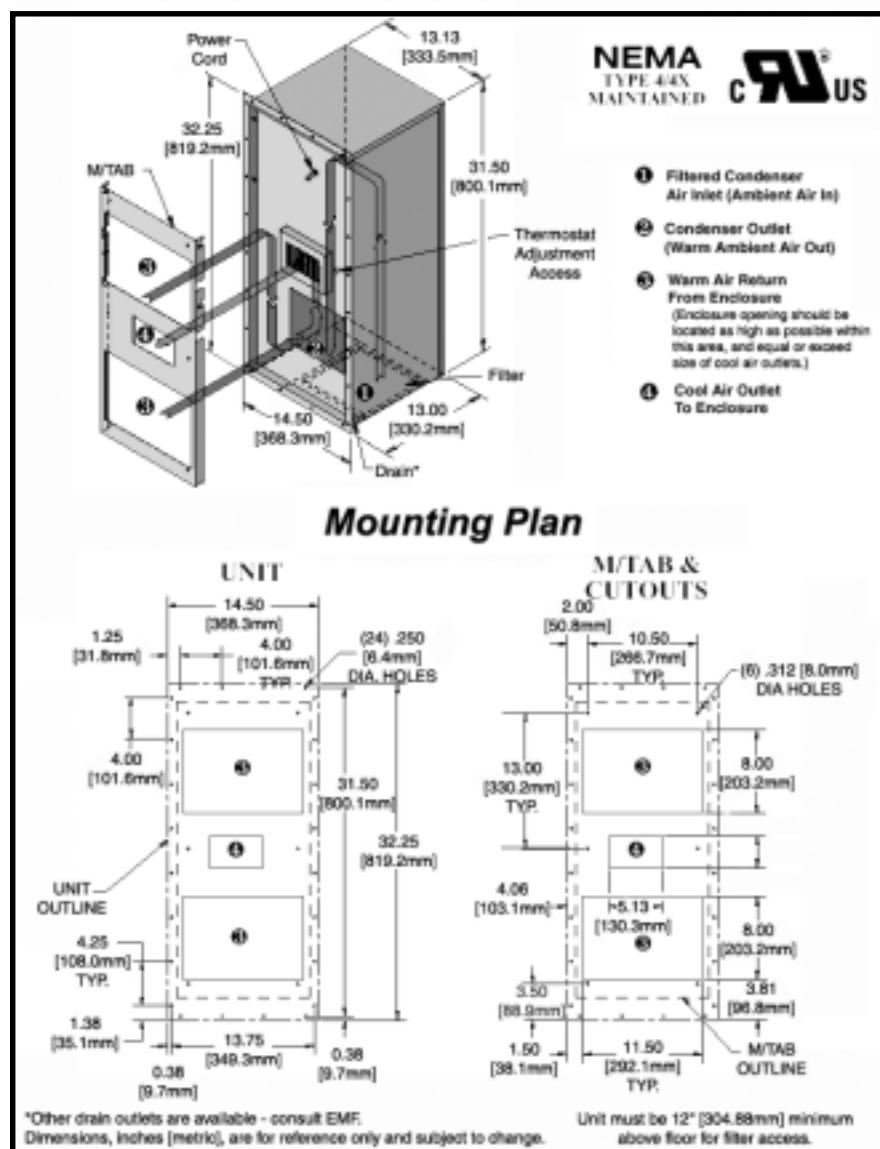
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Internal Corrosion Protection
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Special Motors, Line Cords or Connectors
- Short Cycle Protector
- Special Materials or Finishes
- Stainless or Aluminum Cabinet

Integrity Series 32 Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Ball-bearing Motors
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Internal Corrosion Protection
- Low Temperature Control Thermostat
- M/TAB Mounting System (modified)
- NEMA 4/4X Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- Stainless Steel (304-2B) Cabinet
- UL/CUL Recognized



CATALOG NUMBERS

MODEL	BTU/H	UL STATUS	AMBIENT TEMPS.		VOLTS.	Hz.	AMPS	WEIGHT
			F°	C°				
AC-N4XK321P	1000	Recognized	125/50	51.7/10.0	115/100	60/50	13.0/12.0	105LBS/47.7 KG
AC-N4XK322P	2000	Recognized	125/50	51.7/10.0	115/100	60/50	13.0/12.0	105LBS/47.7 KG
AC-N4XK324P	4000	Recognized	125/50	51.7/10.0	115/100	60/50	13.0/12.0	105LBS/47.7 KG

ACCESSORIES AND OPTIONS

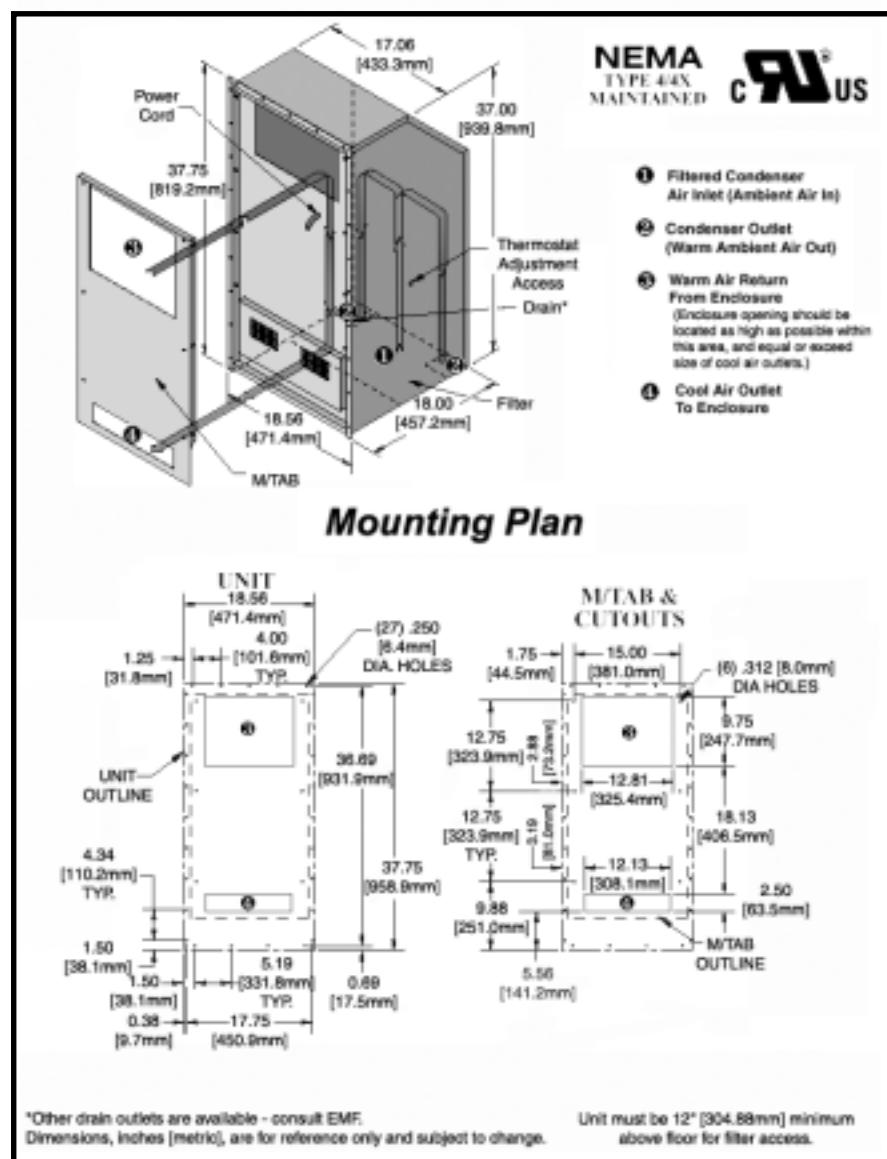
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

Integrity Series 38 Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Ball-bearing Motors
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Internal Corrosion Protection
- Low Temperature Control Thermostat
- M/TAB Mounting System (modified)
- NEMA 4/4X Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- Stainless Steel (304-2B) Cabinet
- UL/CUL Recognized



CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps.		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-N4XK384P	4000	Recognized	131/50	55.0/10.0	115/100	60/50	20	180LBS/81.8 KG
AC-N4XK386P	6000	Recognized	131/50	55.0/10.0	115/100	60/50	20	180LBS/81.8 KG
AC-N4XK388P	8000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	180LBS/81.8 KG
AC-N4XK3810P	10000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	180LBS/81.8 KG

ACCESSORIES AND OPTIONS

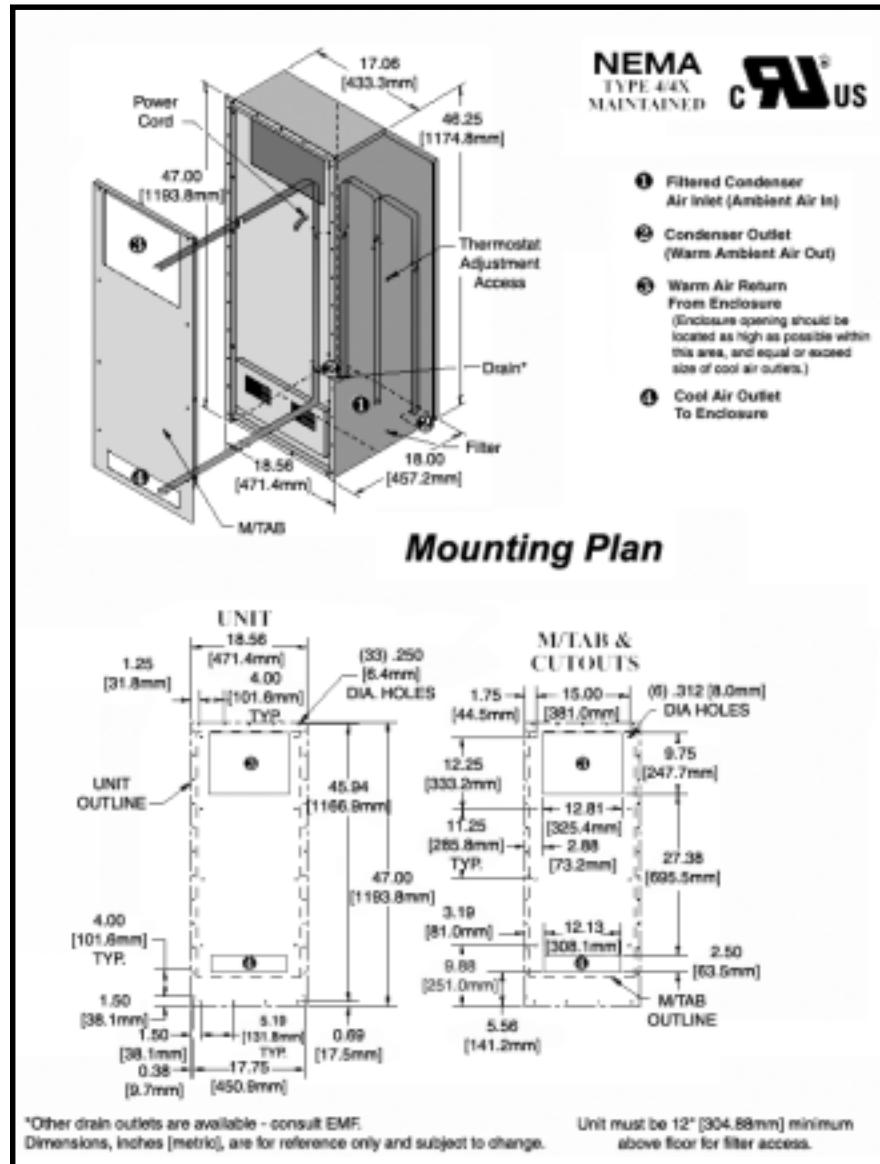
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

Integrity Series 47 Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Ball-bearing Motors
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Internal Corrosion Protection
- Low Temperature Control Thermostat
- M/TAB Mounting System (modified)
- NEMA 4/4X Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- Stainless Steel (304-2B) Cabinet
- UL/CUL Recognized



CATALOG NUMBERS

MODEL	BTU/H	UL STATUS	AMBIENT TEMPS.		VOLTS.	Hz.	AMPS	WEIGHT
			F°	C°				
AC-N4XK474P	4000	Recognized	131/50	55.0/10.0	115/100	60/50	20	205 LBS./93.2 KG
AC-N4XK476P	6000	Recognized	131/50	55.0/10.0	115/100	60/50	20	205 LBS./93.2 KG
AC-N4XK478P	8000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	205 LBS./93.2 KG
AC-N4XK4710P	10000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	205 LBS./93.2 KG

ACCESSORIES AND OPTIONS

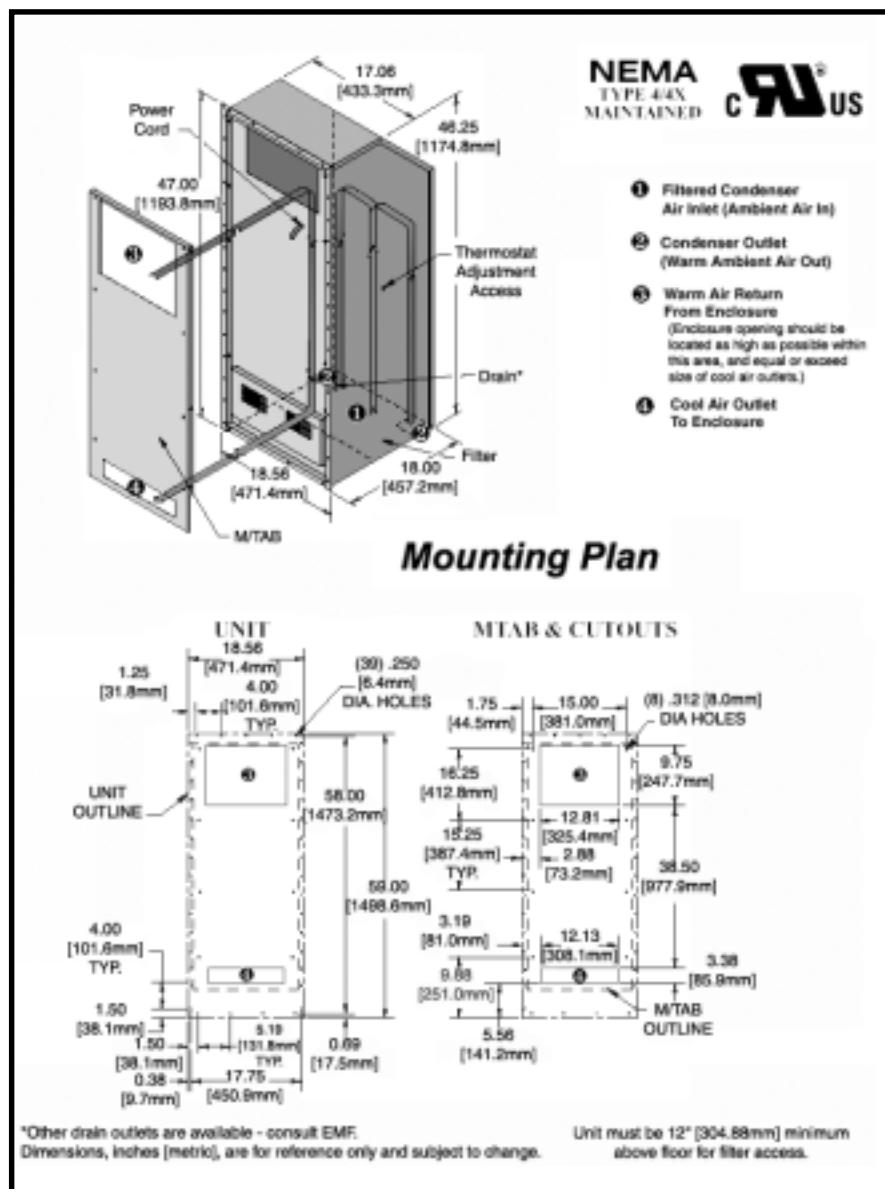
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Ambient Kit
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

Integrity Series 59 Air-Cooled Panel-Mounted Air Conditioners



STANDARD FEATURES

- Ball-bearing Motors
- CFC-Free Refrigerant
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Internal Corrosion Protection
- Low Temperature Control Thermostat
- M/TAB Mounting System (modified)
- NEMA 4/4X Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- Stainless Steel (304-2B) Cabinet
- UL/CUL Recognized



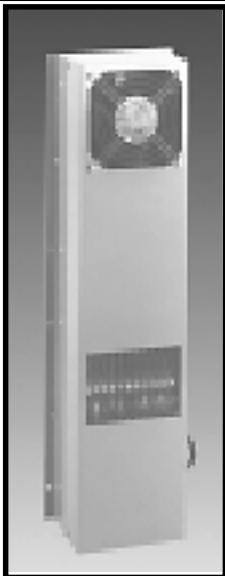
CATALOG NUMBERS

Model	BTU/H	UL Status	Ambient Temps.		Volts.	Hz.	AMPS	Weight
			F°	C°				
AC-N4XK594P	4000	Recognized	131/50	55.0/10.0	115/100	60/50	20	235 LBS./106.8 KG
AC-N4XK596P	6000	Recognized	131/50	55.0/10.0	115/100	60/50	20	235 LBS./106.8 KG
AC-N4XK598P	8000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	235 LBS./106.8 KG
AC-N4XK5910P	10000	Recognized	131/50	55.0/10.0	230/200	60/50	10.9/12.5	235 LBS./106.8 KG

ACCESSORIES AND OPTIONS

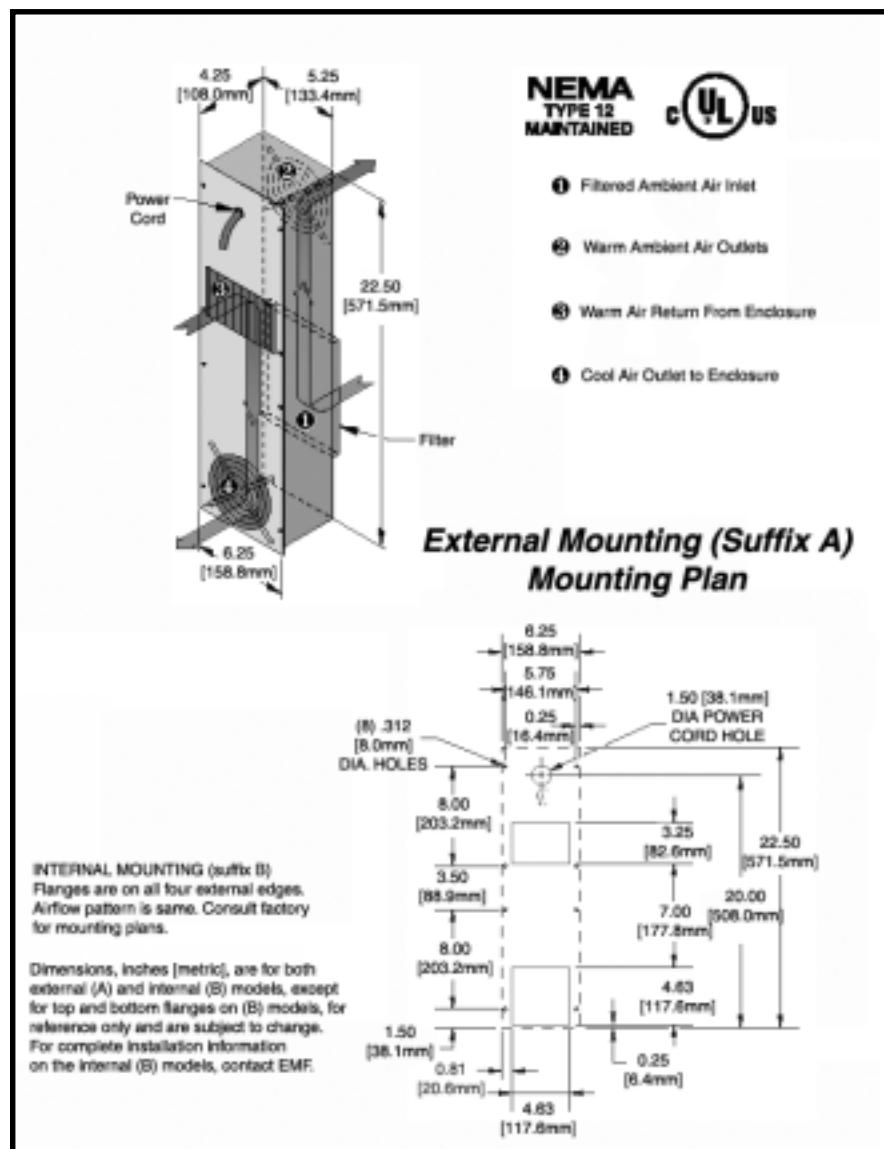
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Ambient Kit
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

HE-60A Air-to-Air Panel-Mounted Heat Exchangers



STANDARD FEATURES

- Baked Powder Finish
- Precision Ball-bearing Motors
- Closed-Loop Near-Ambient Cooling
- Convoluted Aluminum Exchanger Element
- Heavy-duty Steel Enclosure
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Refrigerant-free
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	UL Status	Element Depth	Max. Allowable Temp. °F / °C		Volts.	Hz.	AMPS	Performance Watts °F / °C		Weight
			Enclosure	Ambient				Air In	Air Out	
HE-60A	Listed	4.0/[102MM]	125/50	51.7/10.0	115	60	0.4	8/-13	11/-12	11LBS/5 KG

ACCESSORIES AND OPTIONS

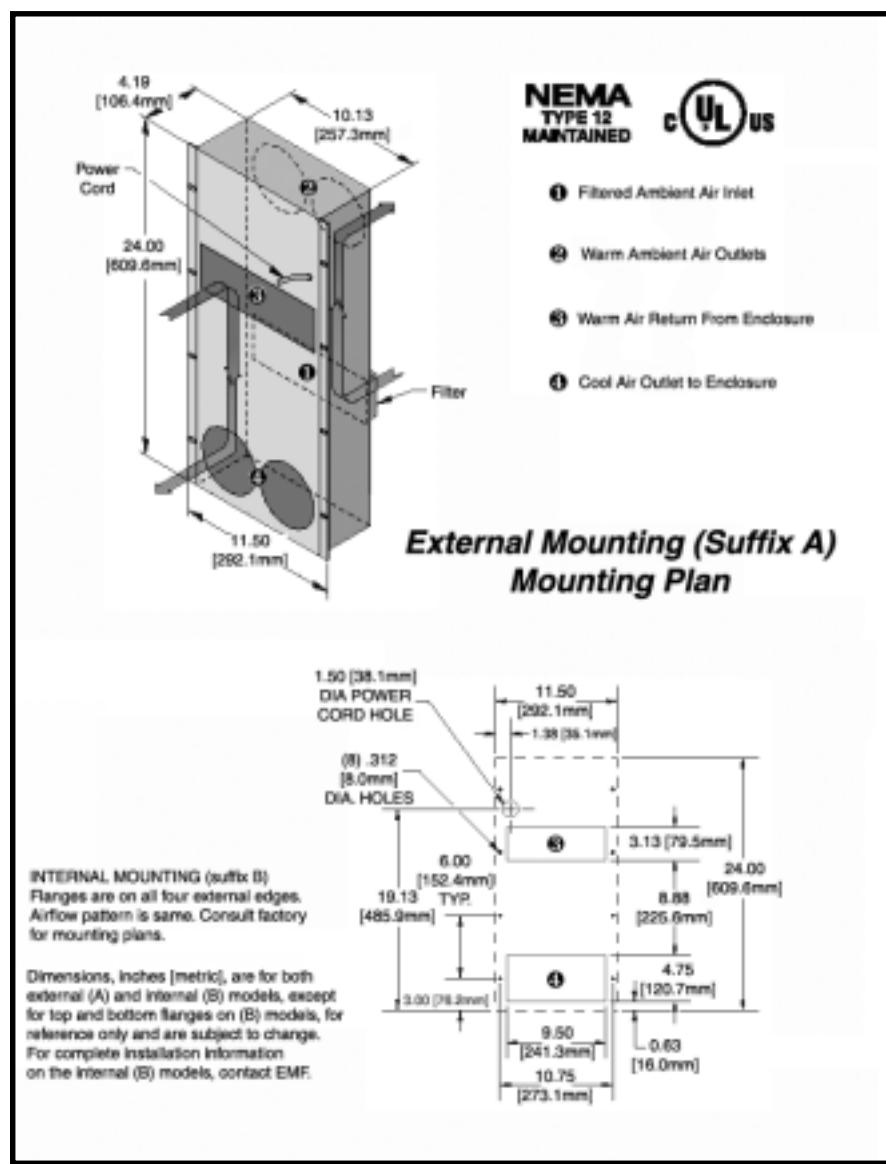
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

HE-120A Air-to-Air Panel-Mounted Heat Exchangers



STANDARD FEATURES

- Baked Powder Finish
- Precision Ball-bearing Motors
- Closed-Loop Near-Ambient Cooling
- Convoluted Aluminum Exchanger Element
- Heavy-duty Steel Enclosure
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Refrigerant-free
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	UL Status	Element Depth	Max. Allowable Temp. °F / °C		Volts.	Hz.	AMPS	Performance Watts °F / °C		Weight
			Enclosure	Ambient				Air In	Air Out	
HE-120A	Listed	4.0/[102MM]	160/71	115/46	115	60	0.8	16/-9	30/-1	20LBS./ 9.1 KG

ACCESSORIES AND OPTIONS

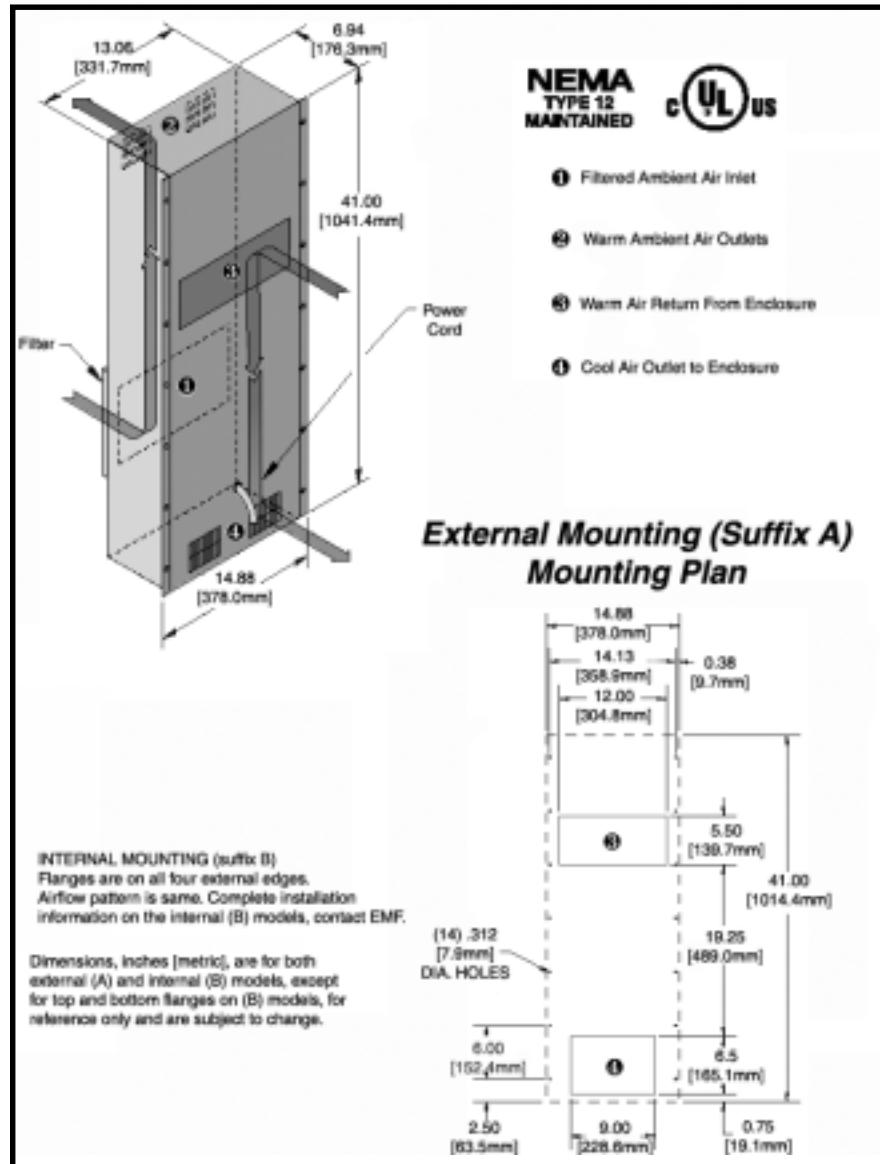
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

HE-240A Air-to-Air Panel-Mounted Heat Exchangers



STANDARD FEATURES

- Baked Powder Finish
- Precision Ball-bearing Motors
- Closed-Loop Near-Ambient Cooling
- Convoluted Aluminum Exchanger Element
- Heavy-duty Steel Enclosure
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Refrigerant-free
- Six Foot [1.8m](minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	UL Status	Element Depth	Max. Allowable Temp. °F / °C		Volts	Hz.	AMPS	Performance Watts °F / °C		Weight
			Enclosure	Ambient				Air In	Air Out	
HE-240A	Listed	4.0/[102MM]	160/71	131/55	115	60	2.4	27/-3	56/13	60LBS/ 27.3 KG

ACCESSORIES AND OPTIONS

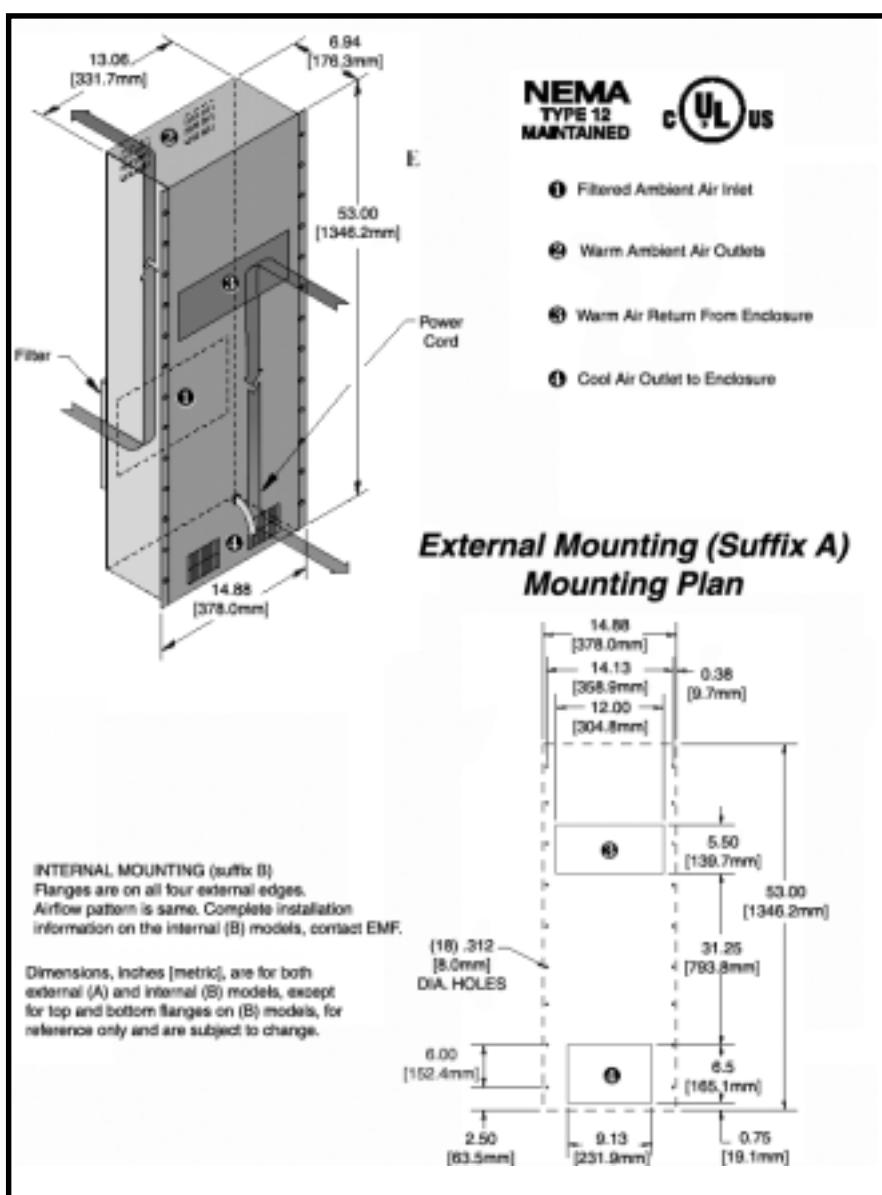
- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors

HE-360A Air-to-Air Panel-Mounted Heat Exchangers



STANDARD FEATURES

- Baked Powder Finish
- Precision Ball-bearing Motors
- Closed-Loop Near-Ambient Cooling
- Convoluted Aluminum Exchanger Element
- Heavy-duty Steel Enclosure
- NEMA 12 Rating Maintained (UL50)
- Permanent Filters
- Refrigerant-free
- Six Foot [1.8m] (minimum) SJT 3-wire Cord
- UL/CUL Listed



CATALOG NUMBERS

Model	UL Status	Element Depth	Max. Allowable Temp. °F / °C		Volts.	Hz.	AMPS	Performance Watts °F / °C		Weight
			Enclosure	Ambient				Air In	Air Out	
			160/71	131/55	115	60	2.4	55/13	90/32	80LBS./ 36.4 KG
HE-360A	Listed	4.0/[102MM]								

ACCESSORIES AND OPTIONS

- Cooling Effect Detector
- Filter Recoating Adhesive
- Filters for Replacement
- Lifting Eyes
- Low Airflow Detector
- Low Ambient Kit & Compressor Heater
- Short Cycle Protector
- Special Materials or Finishes
- Special Motors, Line Cords or Connectors



FF40 Filter Box Fans



Application

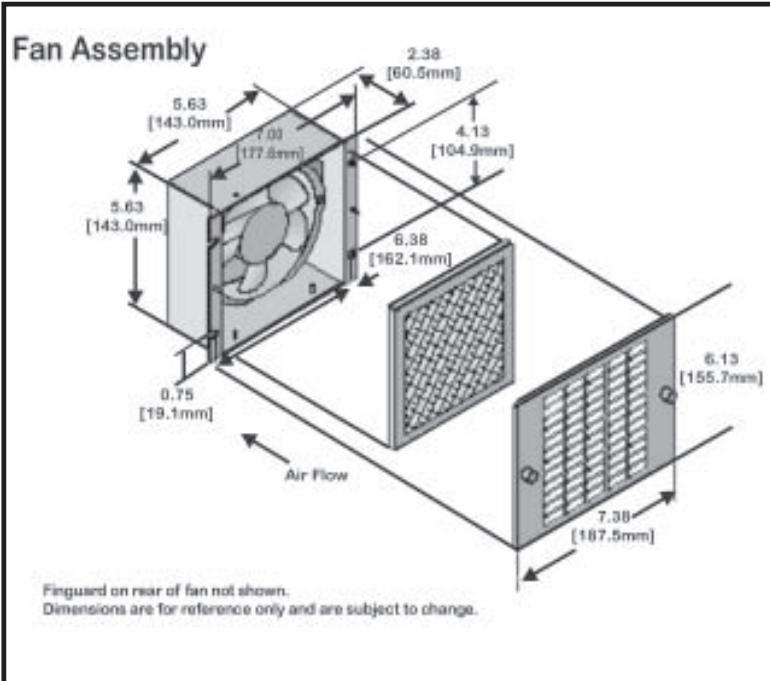
These units were developed to provide reliable quiet cooling and venting for enclosures using filtered ambient air to remove excess heat.

High air flow, 105-550 CFM performance and smaller size and air filtration capabilities make these versatile cooling fans very popular in a wide range of applications.

The filter fans and grilles are easy to install and can be used to either pressurize or exhaust the enclosure. Two units can be used in a push=pull arrangement.

The exhaust filter-grilles are perfect for guarding the hot air exit and keeping dust and dirt from migrating into the enclosure.

The filter-grilles and fan kits are UL Rated and come with sturdy long life washable aluminum filters.



STANDARD FEATURES

- Low cost cooling with filtered ambient air
- High performance UL/CSA ball bearing motors
- Exceptional low-noise operation
- Adhesive-coated aluminum filter providing high arrestance; easily removed for cleaning
- Attractive stainless grilles
- Reversible fan mounting for easily changed air-flow direction
- Rugged heavy duty steel construction with baked powder finish
- Available in 115 or 230 VAC, 50/60 Hz or 12,24, or 48 volts brushless DC

CATALOG NUMBERS

Model	CFM	RPM	Running Amps	Watts	Weight (lbs)	Power Volts (V)	Hertz (Hz)
FF-40	105	3000	0.18	15	3	115	50/60
FF-240	105	3000	0.09	15	3	230	50/60

ACCESSORIES AND OPTIONS

- Filter recoating adhesive
- Filters for replacement
- Other voltages and frequencies
- Special materials or external finishes
- Special line cords or connectors
- Variable speed control

FF60 Filter Box Fans



Application

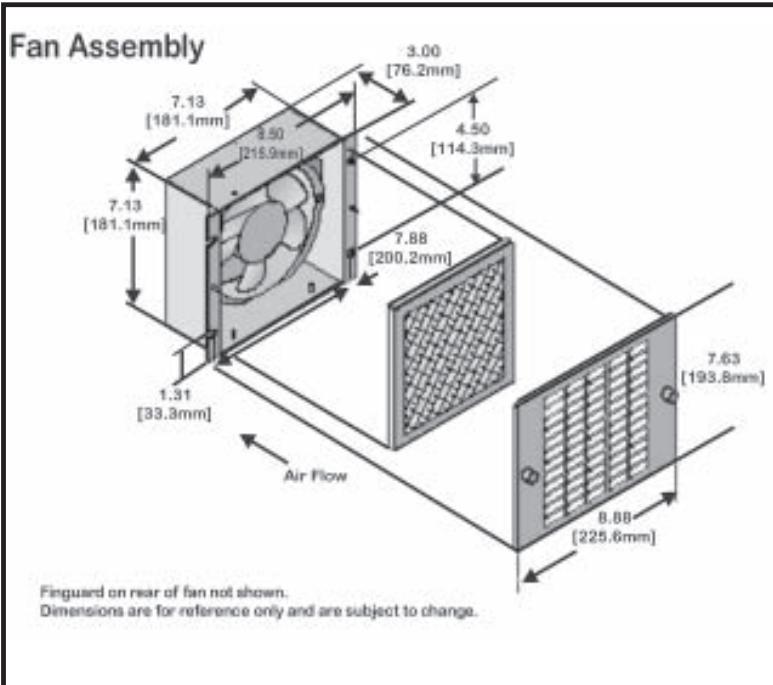
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- Exceptional low-noise operation
- Adhesive-coated aluminum filter providing high arrestance; easily removed for cleaning
- Attractive stainless grilles
- Reversible fan mounting for easily changed air-flow direction
- Rugged heavy duty steel construction with baked powder finish
- Available in 115 or 230 VAC, 50/60 Hz or 12,24, or 48 volts brushless DC

CATALOG NUMBERS

Model	CFM	RPM	Running Amps	Watts	Weight (lbs)	Power Volts (V)	Hertz (Hz)
FF-60	220	3300	0.29	33	4	115	50/60
FF-260	220	3300	0.15	33	4	230	50/60

ACCESSORIES AND OPTIONS

- Filter recoating adhesive
- Filters for replacement
- Other voltages and frequencies
- Special materials or external finishes
- Special line cord or connectors
- Variable speed control



FF100 Filter Box Fans



Application

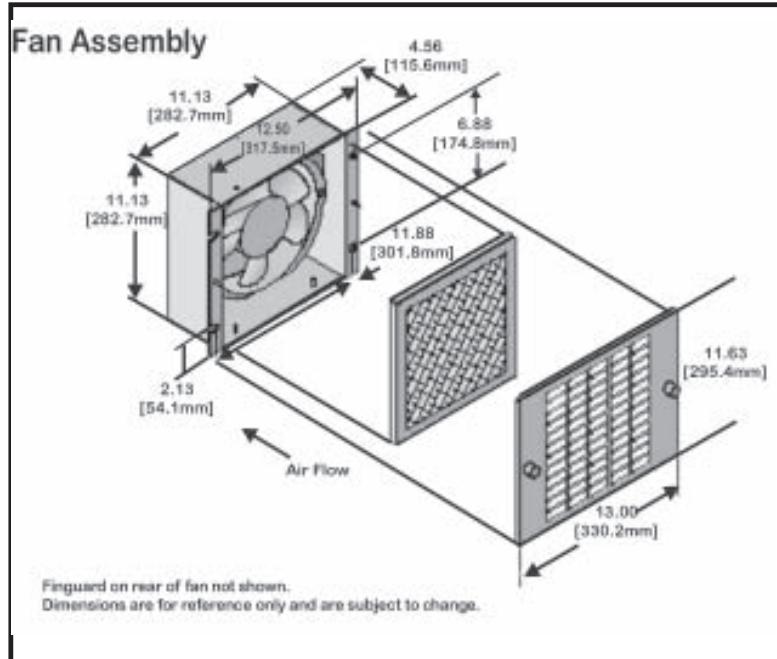
These units were developed to provide reliable quiet cooling and venting for enclosures using filtered ambient air to remove excess heat.

High air flow, 105-550 CFM performance and smaller size and air filtration capabilities make these versatile cooling fans very popular in a wide range of applications.

The filter fans and grilles are easy to install and can be used to either pressurize or exhaust the enclosure. Two units can be used in a push=pull arrangement.

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STANDARD FEATURES

- Low cost cooling with filtered ambient air
- High performance UL/CSA ball bearing motors
- Exceptional low-noise operation
- Adhesive-coated aluminum filter providing high arrestance; easily removed for cleaning
- Attractive stainless grilles
- Reversible fan mounting for easily changed air-flow direction
- Rugged heavy duty steel construction with baked powder finish
- Available in 115 or 230 VAC, 50/60 Hz or 12.24, or 48 volts brushless DC

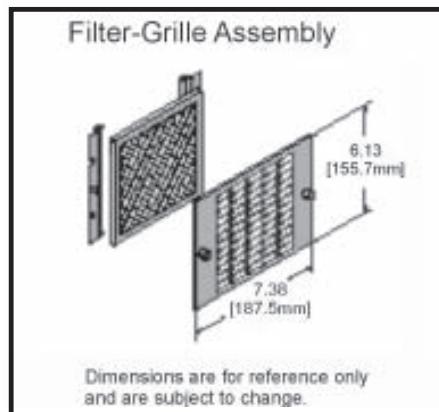
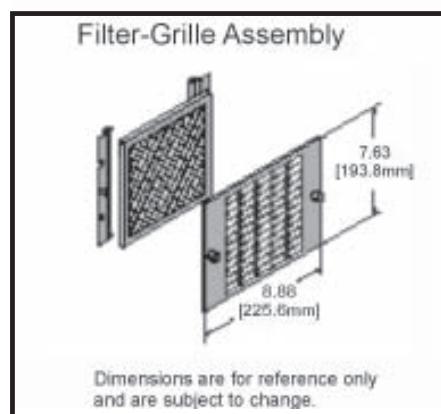
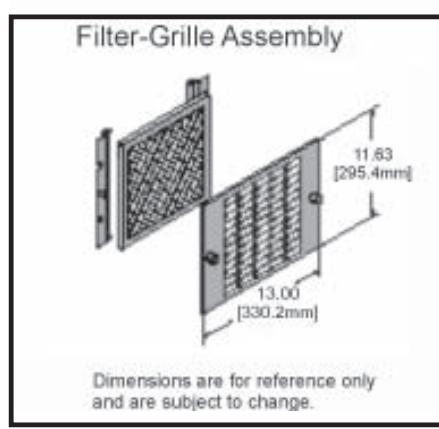
CATALOG NUMBERS

Model	CFM	RPM	Running Amps	Watts	Weight (lbs)	Power Volts (V)	Hertz (Hz)
FF-100	550	1600	0.87	60	10	115	50/60
FF-2100	550	1600	0.45	60	10	230	50/60

ACCESSORIES AND OPTIONS

- Filter recoating adhesive
- Filters for replacement
- Other voltages and frequencies
- Special materials or external finishes
- Special line cord or connectors
- Variable speed control

Filter Grille Assemblies

FG40**FG60****FG100**



Sunshields

Sunshields

Applications Heat gain caused from excessive solar radiation can decrease the life expectancy of your electrical equipment considerably. Sunshields are a low cost, passive, alternative in reducing the damaging effects of solar heat gain in your outdoor electrical enclosures. These shields are an effective way to cut internal temperatures between 25% (on single surface coverage) and 46% (on multiple surface coverage).

The shields work by deflecting both direct sunlight and ambient solar energy reflected from surrounding surfaces. Thermal absorption is minimized by use of reflective coating and is further dispersed by the open air gap between the sunshield and the enclosure.

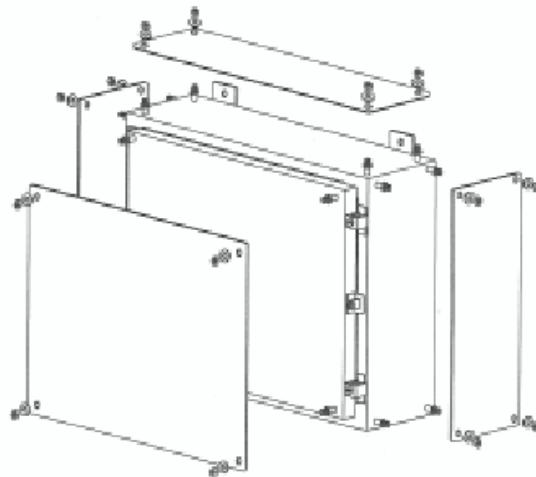
Features

Sunshields are custom made to your specifications, from your choice of the following high quality materials:

- 14 ga. Mild Steel (painted with a white powder coat)
- 14 ga. 304 Stainless Steel
- .080 Aluminum (stainless and aluminum mill are standard coating unless otherwise requested)
- Shields are mounted using standard 3/8-16 hardware on 3/8-16 collar studs for steel, or female threaded tap pads for aluminum.



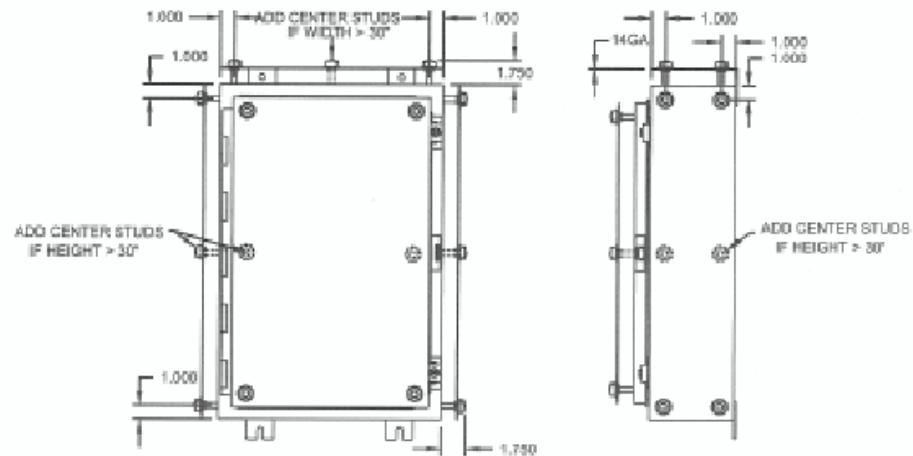
Sunshields



NOTES

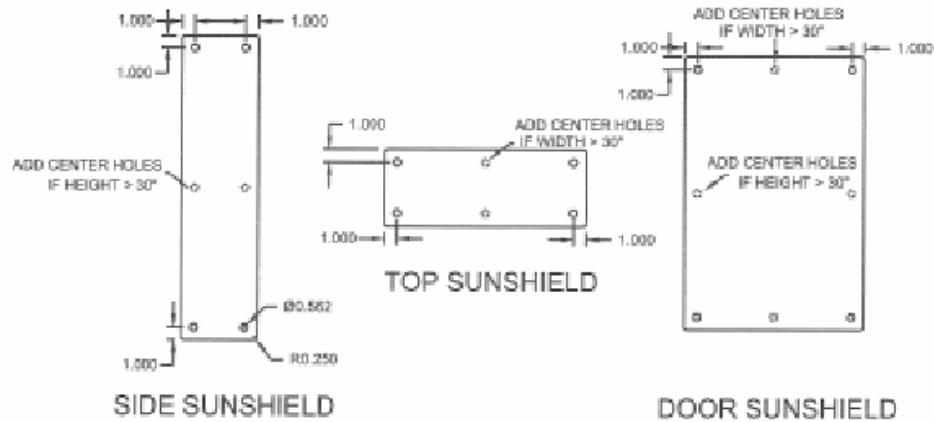
- 1) 14GA MILD STEEL , 14GA 304 STAINLESS STEEL, OR .060 ALUMINUM
- 2) USE ENCLOSURE AMB^{1/2}" FOR TOP AND SIDE SUNSHIELD SIZE
- 3) USE ENCLOSURE A-2" x B-2" FOR DOOR SUNSHIELD SIZE
- 4) MILD STEEL PAINTED ANSI-B1 GREY POWDER COAT, STAINLESS AND ALUMINUM MIL FINISH UNLESS REQUESTED OTHERWISE
- 5) SUNSHIELDS MOUNTED TO ENCLOSURE USING 3/8-16 HARDWARE ON 3/8-16 COLLAR STUDS

Enclosure with all four Sunshields



FRONT

SIDE





Model 1001A-WPS-CI
Type Z



Model 2001A-STD-CI
Type X



Model 1001A-LPS-CI
Type Y

General Terms and Conditions of Warranty

General Terms & Conditions of Warranty

EMF warrants that, for a time period of one (1) year from the date of shipment from EMF's facility, the Bebco Product shall meet the performance criteria stated in the Installation, Operation & Maintenance Manual provided with said product and shall be free from defects in materials and workmanship of the Product must be brought to manufacturer's attention within ten (10) working days of receipt.

EMF reserves the right to ship replacement parts to the customer or to request return of the product for defect cause evaluation. Return of any defective Product must be preceded by an Authorized Mate-

rial Return (AMR) Number issued by EMF and may be shipped freight collect. Upon authorized return to EMF's facility, EMF reserves the right to replace or repair defective components of the Product, or to substitute a new Product upon its determination that noted defects were not caused by neglect, abuse or misuse by the customer. If damage occurs in transit, customer must pursue normal claims against carrier and notify EMF within ten (10) working days of receipt of said damaged Product.

Except for the warranties expressly set forth in writing above, EMF makes no warranties, ex-

pressed or implied, including those of merchantability or fitness for a particular purpose, with respect to the products. In no event shall EMF, its representatives, or other agents acting under EMF's directive be liable for special incidental, or consequential damages for the breach of any warranties or for breach of any other term or condition herein.

Limitations of Liability

EMF herein states a portion of the limitations of liability incurred due to any sale or use of a Bebco System or EMF produced variations or modifications of a Bebco System.

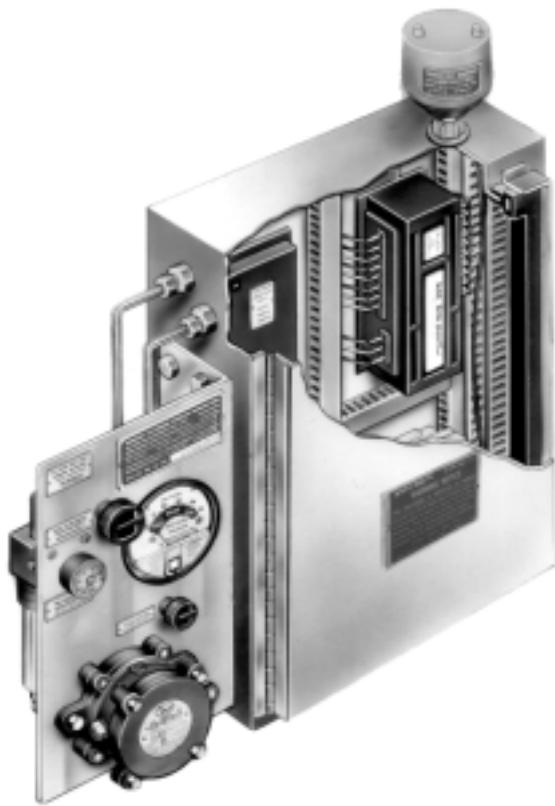
EMF accepts no liability for any affects or damages incurred by the installation or operation of any System which is used to purge any devices, components or enclosures, or combinations thereof which contain barriers or obstructions to inert gas flow, or which are not constructed in complete accordance with the National Fire Protection Association Code 496, or which are not rated and certified for use within the constraints of oiltight, NEMA 4 or NEMA 12

design standard specifications, or which are not specified as acceptable for use within the constraints of Protected Enclosure and Device Design Considerations information contained within the Manufacturer's Installation, Operation & Maintenance Manual.

EMF and/or its agents, representatives, or subcontractors accept no liability for personal injury, dismemberment or death or for any affects or damages incurred to any device, component, enclosure, equipment or area caused by the use of any Bebco System, unless the system is installed, operated and maintained on a regularly scheduled and documented basis as directed by and in complete accordance with the

applicable Manual and all Attachments and Addendum included with said Manual.

These Limitations of Liability supersede any and all claims of liability responsibilities claimed by the User and/or its Agents or subcontractors against EMF and/or its agents, representatives, or subcontractors regardless of their terms of purchase, surrendered hereto, and shall survive from the



Class Ratings

Classes are used to define the explosive or ignitable substances which are present in the atmosphere.

- Class I** - Flammable gases or liquid vapors
- Class II** - Ignitable metal, carbon or organic dusts
- Class III** - Ignitable fibrous materials

Group Ratings

Groups are used to define substances by rating their explosive or ignitable nature, in relation to other known substances.

Typical Class I Substances

- Group A** - Acetylene
- Group B** - Hydrogen or >30% Hydrogen by Volume
- Group C** - Ethyl Ether & Ethylene
- Group D** - Acetone, Ammonia, Benzene & Gasoline

Typical Class II Substances

- Group E** - Aluminum, Magnesium, & Alloys
Note: *Class II GRP E Must Be Rated "Division I"*
- Group F** - Carbon, Coke, & Coal
- Group G** - Flour, Grain, Wood, Plastic & Chemicals

Division Ratings

Divisions are used to define the degree of hazard by determining the explosive or ignitable substance's expected concentration in the atmosphere.

Note: NFPA states that *Division I areas must be surrounded by Division II areas*.

- Division 1** - Contains substances under normal conditions
- Division 2** - Contains substances under abnormal conditions

About Purging

EMF has chosen Bebco EPS Division Products® as our prime supplier for purging technology. The Bebco® enclosure protection system is designed to supply one or more protected enclosures with clean instrument air or inert gas. This process removes flammable gases or prevents the accumulation of ignitable dusts within the protected enclosure(s). This method of protection is not limited by the quantity, configuration, power requirements, or location of the protected equipment. These systems are commonly used for all applications involving basic electronics, electrical equipment, motors and switchgear. In addition these systems can also meet the demands of rackmounted instrumentation, video displays, programmable controllers, computers, printers, recorders, measurement and calibration equipment.

One of the best benefits is the slow but continuous flow of protective gas, which can be specifically used to eliminate problems like heat, moisture, dust, and corrosion. And unlike explosion proof enclosures and intrinsic safety barriers, failure of a Bebco Enclosure Protection System® does not create an immediate danger.

Purging Systems

Pressurization “Types”

The NFPA and ISA define “Types” of pressurization based on the Division rating of a hazardous location and electrical ratings of the protected equipment. This is because general purpose and Division 2 rated electrical equipment require different means of protection, depending on their location.

Type "X"

PROTECTS GENERAL PURPOSE EQUIPMENT IN DIVISION I AREAS

This system reduces the classification within protected enclosures from Division 1 to nonclassified. It is required to automatically control electrical power to all protected equipment.

Type "Y"

PROTECTS DIVISION 2 RATED EQUIPMENT IN DIVISION I AREAS

This system reduces the classification within protected enclosures from Division 1 to Division 2. All protected equipment must be rated for Division 2, or be hermetically sealed. Automatic power control is not required.

Type "Z"

PROTECTS GENERAL PURPOSE RATED EQUIPMENT IN DIVISION 2 AREAS

This system reduces the classification within protected enclosures from Division 2 to nonclassified. Automatic power control is not a requirement.

Pressurization and Purging Methods

The NFPA and ISA have defined several techniques for protecting equipment. Most equipment requires only basic pressurization in Class II areas or purging in Class I areas. Methods of ventilation and dilution are advanced protection methods, for heat producing or flammable gas analyzing equipment.

Pressurization

COMMON EQUIPMENT IN CLASS I & II AREAS

This method prevents the entrance of flammable gas or combustible dust into protected enclosures. In Class II areas, this is accomplished by manually removing any dust and then applying a protective gas supply to maintain a positive enclosure pressure of 0.10 or 0.50 inches of water, dependent on particle density. In Class I areas, this is accomplished by “purging” as defined below, and by then maintaining a minimum positive enclosure pressure of 0.10 inches of water. Power can then be applied to the protected equipment under conditions established by the Division rating.

Purging

COMMON EQUIPMENT IN CLASS I AREAS

As strictly defined by NFPA 496, this method is a start-up process of Class I area pressurizing which removes flammable vapors from a protected enclosure. This is accomplished by exchanging a known volume of protective gas, while maintaining a minimum positive enclosure pressure of 0.10 inches of water. The 1993 edition of NFPA 496 recommends 4 volume exchanges for all enclosures and 10 volume exchanges for all motors.

NOTE: The word “purging” is commonly used as a term to define the complete process of pressurizing protected enclosure in Class I areas.

Questions and Answers

What is Purging?

The word “purging” is commonly used to describe the basic process of supplying sealed electrical enclosures or devices with a protective gas. This basic process is performed to remove flammable gasses or prevent accumulation of ignitable dust, while maintaining a positive enclosure pressure.

NOTE: To align their definitions with International Electrical Codes, American organizations now define this basic process as “pressurization”. In addition, “purging” now only defines the subroutine of expelling gases in Class I locations.

What is used to purge an enclosure?

The most common and practical protective gas is compressed instrument quality air that contains no more than trace amounts of combustible vapor. Inert gases, such as nitrogen or argon are acceptable; however, they are usually expensive and impractical.

What is the pressure requirement?

Most purging applications require a minimum enclosure pressure of 0.10 inches of water. This pressure is equivalent to 1/270 of 1 PSI. In some circumstances, a minimum enclosure pressure of 0.50 inches of water is required to protect against ignitable dust. But in all cases, a higher enclosure pressure should be maintained to create a reasonable safety factor. In rare circumstances, enclosure pressures as high as 2.5 inches of water may be required to offset sudden

atmospheric pressure fluctuations, such as those created near missile launching or offshore drilling platforms.

How much purging gas is used?

Average protective gas consumption at a 0.10 inch enclosure pressure should fall somewhere between 0.1 to 3.5 scfh per cubic foot of enclosure volume. However, use will depend on the protected enclosure's integrity and normal pressure setting. Use is also dependent on the quantity and size of covers and doors as well as devices which penetrate the surface. Advanced forms of protection such as cooling or dilution may require continuous flow rates of 30 to 100 scfm.

What kinds of enclosures can be purged?

Any enclosure can be purged, but enclosures featuring gasketing and multiple door fasteners are ideal. Therefore, in the absence of official construction requirements for purged enclosures, we recommend enclosures which meet or exceed the NEMA 4 or NEMA 12 rating.

What kinds of devices can be purged?

Virtually any basic electrical device can be purged, provided that all “live” or energized components can be isolated from the surrounding environment. Devices such as push buttons, relays, timers and programmable controllers only need to be installed in a sealed enclosure. Motors require a totally enclosed housing.

How can the equipment be accessed?

Equipment mounted in the protected enclosure can be accessed if the area is known to be nonhazardous, or if all power to the protected equipment has been de-energized.

What are the advantages to purging?

Purging has these advantages: Reduces heat build up, inhibits metal corrosion, requires low maintenance, increases equipment longevity, allows fast access to equipment, reduces moisture and dust buildup, reduces classification within enclosure, continuous system status indication, protects enclosures up to 450 Cu Ft, allows use of any enclosure shape, cost of protection per cubic foot decreases with enclosure size.

What are the disadvantages to purging?

Purging has these disadvantages: Contains moving parts, requires instrument air supply, some systems contain electronics, some systems require electrical power.

Type Y and Z Systems

Ordering Format

The model numbers of the purging systems are representative of the size of the system and the classification. Type "X" systems can be "SA"-semi-automatic, or "FA"- fully automatic. The purging systems come with the mounting plate included but you must specify where you want it mounted as each side has a different configuration.



Y Model 1001A shown



Z Model 1002A shown

Type Y and Z Systems

Model 1001A Pressurization /Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
1001A-LPS-Cl-Y	Purging System	2 Cubic Feet Max	Cl. I, DIV. 1, Grp A-D	LH,RH,TM,BM,WM,FM,PM,
1001A-LPS-Cl-Y	Pressurization System	10 Cubic Feet Max	Cl. II, DIV. 1, Grp F & G	LH,RH,TM,BM,WM,FM,PM,
1001A-WPS-Cl-Y	Purging System	2 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*
1001A-WPS-Cl-Y	Pressurization System	10 Cubic Feet Max	Cl. II, DIV. 1, Grp F & G	LH,RH,TM,BM,WM,FM*
1001A-LPS-Cl-Z	Purging System	2 Cubic Feet Max	Cl. I, DIV. 2, Grp A-D	LH,RH,TM,BM,WM,FM,PM,
1001A-LPS-Cl-Z	Pressurization System	10 Cubic Feet Max	Cl. II, DIV. 2, Grp F & G	LH,RH,TM,BM,WM,FM,PM,
1001A-WPS-Cl-Z	Purging System	2 Cubic Feet Max	Cl. I, DIV. 2, Grp C & D	LH,RH,TM,BM,WM,FM*
1001A-WPS-Cl-Z	Pressurization System	10 Cubic Feet Max	Cl. II, DIV. 2, Grp F & G	LH,RH,TM,BM,WM,FM*

Model 1002 Rapid Exchange® Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
1002-LPS-Cl-Y	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp A-D	LH,RH,TM,BM,WM,FM,PM,
1002-WPS-Cl-Y	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*
1002-LPS-Cl-Z	Purging System	15 Cubic Feet Max	Cl. I, DIV. 2, Grp A-D	LH,RH,TM,BM,WM,FM,PM
1002-WPS-Cl-Z	Purging System	15 Cubic Feet Max	Cl. I, DIV. 2, Grp C & D	LH,RH,TM,BM,WM,FM*

Model 1003 Rapid Exchange® Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
1003-LPS-Cl-Y	Purging System	75 Cubic Feet Max	Cl. I, DIV. 1, Grp A-D	LH,RH,TM,BM,WM,FM,PM,
1003-WPS-Cl-Y	Purging System	75 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*
1003-LPS-Cl-Z	Purging System	75 Cubic Feet Max	Cl. I, DIV. 2, Grp A-D	LH,RH,TM,BM,WM,FM,PM
1003-WPS-Cl-Z	Purging System	75 Cubic Feet Max	Cl. I, DIV. 2, Grp C & D	LH,RH,TM,BM,WM,FM*

LH-Left Hand, RH-Right Hand, TM-Top Mount, BM-Bottom Mount, WM-Wall Mount, FM-Frame Mount, *PM-Panel Mount. Panel Mount not available in WPS Style.

Type X Systems

Type X Systems



X Model 2001A shown

Model 2001A Pressurization /Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
2001A-CI-X	Purging System	2 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*
2001A-CII-X	Pressurization System	10 Cubic Feet Max	Cl. II, DIV. 1, Grp E-G	LH,RH,TM,BM,WM,FM*,PM*

Model 2002 STD(Standard)-SA(Semi-Automatic)-FA(Fully Automatic) Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
2002-STD-CI	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*
2002-STD-IB	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp B	LH,RH,TM,BM,WM,FM*,PM*
2002-SA-CI	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*
2002-FA-CI	Purging System	15 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*

Model 2003 STD(Standard)-SA(Semi-Automatic)-FA(Fully Automatic) Purging System

Model Number	Designation	Enclosure Volume	U.L. & FM Approvals	Mounting Configuration
2003-STD-CI	Purging System	75 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*
2003-SA-CI	Purging System	75 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*
2003-FA-CI	Purging System	75 Cubic Feet Max	Cl. I, DIV. 1, Grp C & D	LH,RH,TM,BM,WM,FM*,PM*

LH-Left Hand, RH-Right Hand, TM-Top Mount, BM-Bottom Mount, WM-Wall Mount, *FM-Frame Mount, *PM-Panel Mount. FM & PM configurations feature flush mount EPCU. Flush Mount EPCU not suitable for group B areas.

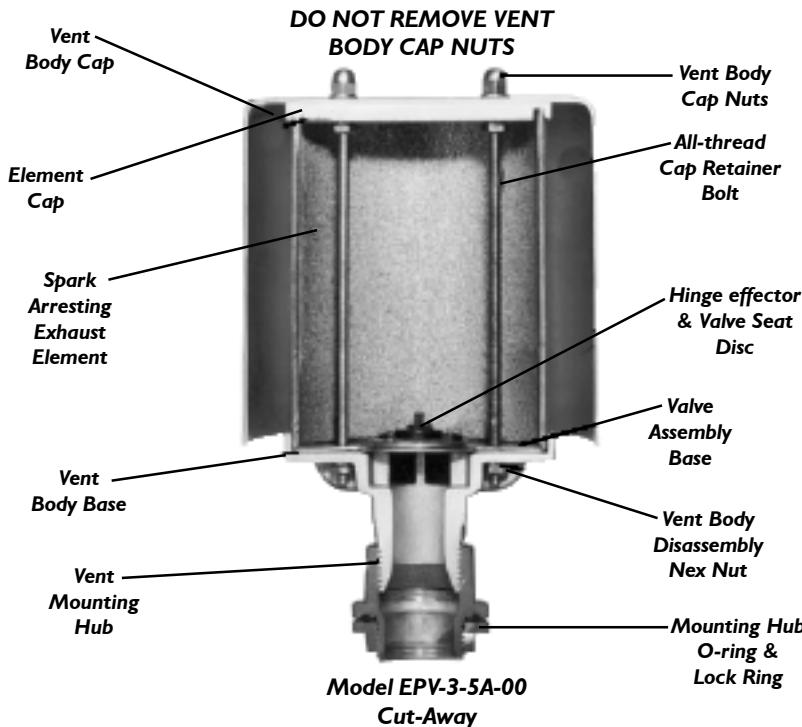
Enclosure Protection Vents



Model EPV-1-SA-00



Model EPV-3-SA-90

Model EPV-3-SA-90
Cut-Away

Enclosure Protection Vents

Description - Model EPV Enclosure Protection Vents are self-seating gravity controlled, low pressure relief valves which are designed to ventilate excessive enclosure pressures that are created by the Rapid Exchange® process, or the failure of enclosure pressure control devices. Enclosure protection vents designated "SA" are "spark arresting" type. The vents designated "PG" are perforated and non-spark arresting. Vents must be ordered separately as is the case with all of the optional items

Operation - The enclosure protection vents operate in a manner which is similar to a self closing swing-check valve, and must therefore be installed in true vertical position. They begin operation when pressure within the enclosure exceeds 0.65 inches water. When the valve seat cracks, pressure is immediately released, and the effects of gravity begin yielding to the forces of enclosure back-pressure.

Enclosure Protection Vents

Model Number	Vent Size	Element Style	Mounting Configuration
EPV-2-PG00	3/4"	Perforated Guard	Top Mount
EPV-2-PG-90	3/4 "	Perforated Guard	Side Mount
EPV-2-SA-00	3/4"	Spark Arrestor	Top Mount
EPV-2-SA-90	3/4"	Spark Arrestor	Side Mount
EPV-3-PG-00	1"	Perforated Guard	Top Mount
EPV-3-PG-90	1"	Perforated Guard	Side Mount
EPV-3-SA-00	1"	Spark Arrestor	Top Mount
EPV-3-SA-90	1	Spark Arrestor	Side Mount

*Other Sizes Available

Enclosure Design Considerations

Protected Enclosures

- All windows should be shatter-proof and sized as small as possible
- All NFPA 496 required markings should be placed on or near all doors and covers.
- The enclosure should withstand an internal pressure of five inches of water without sustaining permanent deformation and resist all corrosive elements in the surrounding atmosphere.
- All lightweight objects in the enclosure, such as paper or insulation, should be firmly secured.
- The enclosure should be constructed from materials such as metal to meet NEMA 4 or 12 performance requirements.
- The installation of obstructions or other barriers which block or impede the flow of protective gas should be avoided.
- The enclosure should be located in an area where impact hazards are minimal.
- A pressure relief device should be used if it is required to protect the enclosure against pressurization system control failure or to allow proper pressurization system operation.
- The enclosure should have no surface area which exceeds 80% of the flammable or ignitable substance's auto-ignition temperature.
- If the enclosure is protected by a Type X System and can be opened without the use of a tool or key, the door should be equipped with a Division I rated power interlock system to de-energize all the equipment that is not suitable for Division I areas.

Calculation of Enclosure & Device Volumes

- The total volume of all pressurized enclosures, devices and wireways should be considered.
- All enclosure, device and wireway volumes should be calculated without consideration of internally consumed space.
- Cubical device volumes should be calculated as follows:

$$\text{Height} \times \text{Width} \times \text{Depth} \text{ [in inches]} \div 1728 = \text{Cubic Feet}$$

$$\text{[in feet]} = \text{Cubic Feet}$$
- Cylindrical device volumes may be calculated as follows:

$$\pi R^2 \times \text{Cylinder Length} \text{ [in inches]} \div 1728 = \text{Cubic Feet}$$

$$\text{[in feet]} = \text{Cubic Feet}$$

Adjacent & Internal Enclosures

All internal enclosures [within the protected enclosure] should be protected by one of the following means, if the free volume of the internal enclosure exceeds 1.22 cubic inches:

1. Internal enclosures should be ventilated on the top and bottom sides with at least one square inch of opening for each 400 cubic inches of volume within the internal protected enclosure, with a minimum size of quarter inch diameter; or...
2. Adjacent and internal enclosures should be purged in series with the protected enclosure or be purged separately; or...
3. Equipment within adjacent and internal enclosures should be protected by other means; e.g. explosion proof enclosures, hermetically sealed housings or intrinsic safety barriers.

Pressure Relief Devices

All pressure relief devices should be designed to minimize air leakage, unless intended for dilution or ventilation. All pressure relief devices should be constructed from flame, shatter, and ignition proof substances. In addition, they should be designed to prevent the escape of sparks and burning materials, if located in a Division I hazardous location.

General Accessories

Back Panels

Back Panels

EMF back panels are constructed of high strength steel. They are then phosphatized and powder coated with a hybrid coating that resists chipping, and won't yellow after time. Stainless steel and aluminum panels are mill finished.



J-1212P



F-6036PN4-AL

Panels for Small NEMA 1 Enclosures

Catalog Number	Panel Size	Shipping Wt.
A-6P6N	Fits 6 x 6 Boxes	0.5
A-8P6N	Fits 8 x 6 Boxes	1
A-8P8N	Fits 8 x 8 Boxes	1
A-10P8N	Fits 10 x 8 Boxes	1
A-10P10N	Fits 10 x 10 Boxes	2
A-12P10N	Fits 12 x 10 Boxes	2
A-12P12N	Fits 12 x 12 Boxes	2
A-14P12N	Fits 14 x 12 Boxes	3

Panels for JIC Boxes**

Catalog Number	Panel Size	Shipping Wt.
J-64P	Fits 6 x 4 Boxes	0.5
J-66P	Fits 6 x 6 Boxes	0.5
J-86P	Fits 8 x 6 Boxes	1
J-88P	Fits 8 x 8 Boxes	1
J-108P	Fits 10 x 8 Boxes	1
J-1010P	Fits 10 x 10 Boxes	2
J-1210P	Fits 12 x 10 Boxes	2
J-1212P	Fits 12 x 12 Boxes	2
J-1412P	Fits 14 x 12 Boxes	3
J-1614P	Fits 16 x 14 Boxes	4

**For Stainless Steel add -SS to part number

**For Aluminum add -AL to part number

Aluminum Panels for Wallmounted NEMA Enclosures

Catalog Number	Panel Size	Shipping Wt.
F-1612PN4-AL	13 x 9	1
F-2016PN4-AL	17 x 13	3
F-2020PN4-AL	17 x 17	4
F-2420PN4-AL	21 x 17	5
F-2424PN4-AL	21 x 21	6
F-3024PN4-AL	27 x 21	7
F-3624PN4-AL	33 x 21	9
F-3630PN4-AL	33 x 27	11
F-4836PN4-AL	45 x 33	19
F-6036PN4-AL	57 x 33	24

**Note: All Aluminum Panels are mill finished and are NOT painted.

**For Aluminum add -AL to part number



General Accessories

Back Panels

Painted and Stainless Steel Panels for Wallmounted NEMA Enclosures



E-3630P

Steel Catalog Number	Stainless Steel Catalog Number	Panel Size	Use This Size Box	Shipping Wt.
E-1224P	E-1224PSS	9x12	12x24	7
E-1612P	E-1612PSS	13x9	16x12	4
E-1616P	E-1616PSS	13x13	16x16	6
E-2012P	E-2012PSS	17x9	20x12	5
E-2016P	E-2016PSS	17x13	20x16	7
E-2020P	E-2020PSS	17x17	20x20	9
E-2412P	E-2412PSS	21x9	24x12	8
E-2416P	E-2416PSS	21x13	24x16	9
E-2420P	E-2420PSS	21x17	24x20	13
E-2424P	E-2424PSS	21x21	24x24	15
E-3016P	E-3016PSS	27x13	30x16	12
E-3020P	E-3020PSS	27x17	30x20	16
E-3024P	E-3024PSS	27x21	30x24	19
E-3030P	E-3030PSS	27x27	30x30	24
E-3616P	E-3616PSS	33x13	36x16	16
E-3620P	E-3620PSS	33x17	36x20	21
E-3624P	E-3624PSS	33x21	36x24	24
E-3630P	E-3630PSS	33x27	36x30	30
E-3636P	E-3636PSS	33x33	36x36	37
E-4216P	E-4216PSS	39x13	42x16	23
E-4220P	E-4220PSS	39x17	42x20	26
E-4224P	E-4224PSS	39x21	42x24	28
E-4230P	E-4230PSS	39x27	42x30	35
E-4236P	E-4236PSS	39x33	42x36	43
E-4242P	E-4242PSS	39x39	42x42	51
E-4816P	E-4816PSS	45x13	48x16	24
E-4820P	E-4820PSS	45x17	48x20	25
E-4824P	E-4824PSS	45x21	48x24	27
E-4830P	E-4830PSS	45x27	48x30	40
E-4836P	E-4836PSS	45x33	48x36	50
E-4842P	E-4842PSS	45x39	48x42	60
E-4848P	E-4848PSS	45x45	48x48	74
E-6024P	E-6024PSS	57x21	60x24	47
E-6030P	E-6030PSS	57x27	60x30	51
E-6036P	E-6036PSS	57x33	60x36	60
E-6042P	E-6042PSS	57x39	60x42	74
E-7224P	E-7224PSS	69x21	72x24	57
E-7230P	E-7230PSS	69x27	72x30	62
E-7236P	E-7236PSS	69x33	72x36	72

General Accessories

Back Panels

Panels for Two Door Freestanding Enclosures

Catalog Number	Panel Size	Shipping Wt.
E5-72P48F	60x44	112
E5-72P48H	30-7/8x44	60
E5-72P60F	60x56	141
E5-72P60H	30-7/8x56	75
E5-72P72F	60x68	169
E5-72P72H	30-7/8x68	91
E5-72P78F	60x74	182
E5-72P78H	30-7/8x74	96
E5-78P48F	66x44	120
E5-78P48H	33-7/8x44	63
E5-78P60F	66x56	152
E5-78P60H	33-7/8x56	80
E5-78P72F	66x68	184
E5-78P72H	33-7/8x68	97
E5-84P48F	72x44	131
E5-84P48H	36-7/8x44	69
E5-84P60F	72x56	166
E5-84P60H	36-7/8x56	87
E5-84P72F	72x68	200
E5-84P72H	36-7/8x68	105
E5-90P48F	78x44	142
E5-90P48H	39-7/8x44	74
E5-90P60F	78x56	179
E5-90P60H	39-7/8x56	94
E5-90P72F	78x68	218
E5-90P72H	39-7/8x68	114

**Panels for Two Door
Floormounted Enclosures**

Catalog Number	Panel Size	Shipping Wt.
E-5442P	50x38	82
E-6042P	56x38	89
E-6048P	56x44	103
E-6060P	56x56	130
E-7242P	68x38	108
E-7248P	68x44	124
E-7260P	68x56	158
E-7272P	68x68	191
E-7842P	74x38	117
E-7848P	74x44	135
E-7860P	74x56	170
E-7872P	74x68	206
E-8448P	80x44	145
E-8460P	80x56	184
E-8472P	80x68	221
E-9048P	86x44	156
E-9060P	86x56	197
E-9072P	86x68	238



E5-72P48F



E-6048P



General Accessories

Back Panels

Side Mounted Panels

Catalog Number	Panel Size	Use This Size Box	Shipping Wt.
E-6014SMP	56X14	18" Deep	35
E-6020SMP	56X20	24" Deep	49
E-6026SMP	56X26	30" Deep	71
E-6032SMP	56X32	36" Deep	76
E-7214SMP	68X14	18" Deep	39
E-7220SMP	68X20	24" Deep	53
E-7226SMP	68X26	30" Deep	86
E-7232SMP	68X32	36" Deep	92
E-8414SMP	80X14	18" Deep	50
E-8420SMP	80X20	24" Deep	69
E-8426SMP	80X26	30" Deep	101
E-8432SMP	80X32	36" Deep	107
E-9014SMP	86X14	18" Deep	54
E-9020SMP	86X20	24" Deep	68
E-9026SMP	86X26	30" Deep	108
E-9032SMP	86X32	36" Deep	115



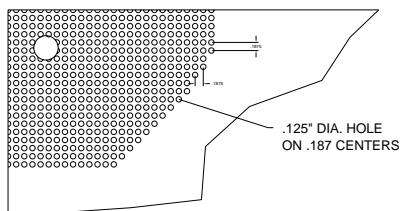
E-6026SMP

General Accessories

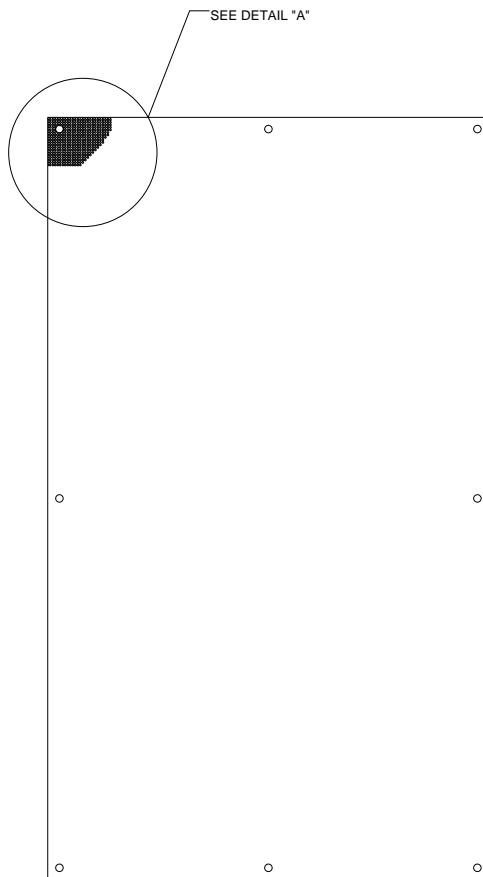
Back Panels

Perforated Steel Panels

Catalog Number	Panel Size	Use This Size Box	Shipping Wt.
E-1612PF	13x9	16x12	2
E-1616PF	13x13	16x16	2
E-2016PF	17x13	20x16	3
E-2020PF	17x17	20x20	3
E-2420PF	21x17	24x20	5
E-2424PF	21x21	24x24	5
E-3020PF	27x17	30x20	6
E-3024PF	27x21	30x24	7
E-3030PF	27x27	30x30	9
E-3624PF	33x21	36x24	8
E-3630PF	33x27	36x30	10
E-3636PF	33x33	36x36	13
E-4230PF	39x27	42x30	12
E-4236PF	39x33	42x36	15
E-4836PF	45x33	48x36	17
E-6030PF	57x27	60x30	28
E-6036PF	57x33	60x36	33
E-7230PF	69x27	72x30	33
E-7236PF	69x33	72x36	40



DETAIL "A"



E-6036PF SHOWN



General Accessories

Back Panels

Steel Panels for Single Door Freestanding

Full and Half Size

Painted White Powder Coat

Catalog Number	Panel Size	Shipping Wt.
E5-72P24F	60x20	54
E5-72P24H	30-7/8x20	32
E5-72P30F	60x26	68
E5-72P30H	30-7/8x26	37
E5-72P36F	60x32	83
E5-72P36H	30-7/8x32	43
E5-72P42F	60x38	95
E5-72P42H	30-7/8x38	50
E5-78P24F	66x20	57
E5-78P24H	33-7/8x20	30
E5-78P30F	66x26	73
E5-78P30H	33-7/8x26	38
E5-78P36F	66x32	89
E5-78P36H	33-7/8x32	47
E5-78P42F	66x38	104
E5-78P42H	33-7/8x38	55
E5-84P24F	72x20	62
E5-84P24H	36-7/8x20	33
E5-84P30F	72x26	80
E5-84P30H	36-7/8x26	42
E5-84P36F	72x32	97
E5-84P36H	36-7/8x32	51
E5-84P42F	72x38	114
E5-84P42H	36-7/8x38	60
E5-90P24F	78x20	67
E5-90P24H	39-7/8x20	35
E5-90P30F	78x26	86
E5-90P30H	39-7/8x26	45
E5-90P36F	78x32	108
E5-90P36H	39-7/8x32	56
E5-90P42F	78x38	123
E5-90P42H	39-7/8x38	64



E5-72P24F

General Accessories

Inner Swing Doors



Application

EMF/ACI Type Inner Doors are used for interior mounting of control devices where a dead front requirement is needed.

Construction

- 14 ga. construction
- White powder coat finish
- Continuously hinged door with slotted latching
- Heavy duty pre-tapped mounting rails
- Factory installed or available in kit form

Modifications

- Alternate latching
- Alternate sizing
- Aluminum construction

**Steel Inner Doors for Wallmount Type
Painted White Powder Coat**

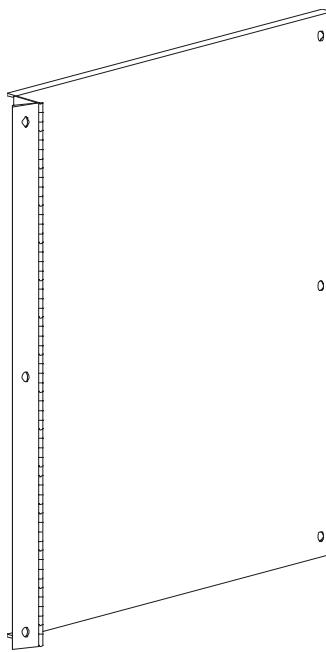
Catalog Number	Use This Size Box	Shipping Wt.
EID-1612AC	16x12	4
EID-1616AC	16x16	5
EID-1620AC	16x20	6
EID-2012AC	20x12	5
EID-2016AC	20x16	7
EID-2020AC	20x20	8
EID-2024AC	20x24	9
EID-2416AC	24x16	8
EID-2420AC	24x20	11
EID-2424AC	24x24	12
EID-3016AC	30x16	10
EID-3020AC	30x20	13
EID-3024AC	30x24	16
EID-3030AC	30x30	19
EID-3620AC	36x20	16
EID-3624AC	36x24	19
EID-3630AC	36x30	23
EID-3636AC	36x36	28
EID-4224AC	42x24	22
EID-4230AC	42x30	38
EID-4236AC	42x36	45
EID-4824AC	48x24	39
EID-4830AC	48x30	42
EID-4836AC	48x36	51
EID-6036AC	60x36	56

**Stainless Steel Inner Doors for Wallmount Type
Enclosures with No. 3 Polished Finish**

Catalog Number	Use This Size Box	Shipping Wt.
EID-1612ACSS	16x12	4
EID-1616ACSS	16x16	5
EID-1620ACSS	16x20	6
EID-2012ACSS	20x12	5
EID-2016ACSS	20x16	7
EID-2020ACSS	20x20	8
EID-2024ACSS	20x24	10
EID-2416ACSS	24x16	8
EID-2420ACSS	24x20	11
EID-2424ACSS	24x24	12
EID-3016ACSS	30x16	11
EID-3020ACSS	30x20	13
EID-3024ACSS	30x24	16
EID-3030ACSS	30x30	19
EID-3620ACSS	36x20	16
EID-3624ACSS	36x24	19
EID-3630ACSS	36x30	23
EID-3636ACSS	36x36	28
EID-4224ACSS	42x24	22
EID-4230ACSS	42x30	38
EID-4236ACSS	42x36	45
EID-4824ACSS	48x24	39
EID-4830ACSS	48x30	42
EID-4836ACSS	48x36	51
EID-6036ACSS	60x36	56

General Accessories

Swing Out Panels



Application

EMF swing out panels are also used for interior mounting of control devices, typically in freestanding or floor mount enclosure applications.

Modifications

- Alternate latching
- Alternate sizing
- Stainless steel or aluminum construction

Construction

- Full length or Half length panels available
- Heavy 10 ga. support frame
- 12 ga. steel panels
- Heavy duty continuous hinge
- Panel fully swings out if located within 10.50 inches of the door
- White powder coat finish
- Half sizes available

Swing Out Panels

Catalog Number	Panel Size	Shipping Wt.
E5-72SP24F	60x20	54
E5-72SP24H	30-7/8x20	29
E5-72SP30F	60x26	68
E5-72SP30H	30-7/8x26	37
E5-72SP36F	60x32	82
E5-72SP36H	30-7/8x32	44
E5-72SP42F	60x38	110
E5-72SP42H	30-7/8x38	58
E5-78SP24F	66x20	73
E5-78SP24H	33-7/8x20	8
E5-78SP30F	66x26	89
E5-78SP30H	33-7/8x26	46
E5-78SP36F	66x32	104
E5-78SP36H	33-7/8x32	55
E5-78SP42F	66x38	120
E5-78SP42H	33-7/8x38	63
E5-84SP24F	72x20	79
E5-84SP24H	36-7/8x20	41
E5-84SP30F	72x26	96
E5-84SP30H	36-7/8x26	50
E5-84SP36F	72x32	114
E5-84SP36H	36-7/8x32	59
E5-84SP42F	72x38	131
E5-84SP42H	36-7/8x38	68
E5-90SP24F	78x20	86
E5-90SP24H	39-7/8x20	45
E5-90SP30F	78x26	104
E5-90SP30H	39-7/8x26	54
E5-90SP36F	78x32	107
E5-90SP36H	39-7/8x32	56
E5-90SP42F	78x38	141
E5-90SP42H	39-7/8x38	74

General Accessories

Floor Stand Kits



Application

EMF Floor Stand Kits elevate your enclosure to a desired height. Floor stand kits may be used for wallmounted enclosures as well as for freestanding enclosures.

Features

- 10 ga. and 12 ga. steel construction or 304 SS
- Primer finish
- Each kit contains nuts, bolts, and washers for easy installation

Modifications

- Aluminum and galvanized steel
- Special finishes
- Odd sizes
- Factory installation and Kits

Painted Steel Floor Stand Kits for a Variety of Enclosure Types

Painted 61 Grey Powder Coat

Catalog Number	Use This Size Box	Shipping Wt.
E-FSK0608	8" Deep	21
E-FSK0610	10" Deep	24
E-FSK0612	12" Deep	26
E-FSK0618	18" Deep	34
E-FSK0624	24" Deep	41
E-FSK1008	8" Deep	30
E-FSK1010	10" Deep	33
E-FSK1012	12" Deep	44
E-FSK1018	18" Deep	45
E-FSK1024	24" Deep	54
E-FSK1208	8" Deep	33
E-FSK1210	10" Deep	37
E-FSK1212	12" Deep	40
E-FSK1216	16" Deep	47
E-FSK1218	18" Deep	51
E-FSK1220	20" Deep	42
E-FSK1224	24" Deep	54
E-FSK1808	8" Deep	46
E-FSK1810	10" Deep	50
E-FSK1812	12" Deep	54
E-FSK1816	16" Deep	63
E-FSK1818	18" Deep	68
E-FSK1820	20" Deep	72
E-FSK1824	24" Deep	81
E-FSK2408	8" Deep	58
E-FSK2410	10" Deep	63
E-FSK2412	12" Deep	68
E-FSK2416	16" Deep	79

Floor stand kits are packaged for field installation.

Stainless Steel Floor Stand Kits For a Variety of Enclosure Types With #3 Polished Finish

Catalog Number	Use This Size	Shipping Wt.
E-FSK0608SS	8" Deep	21
E-FSK0610SS	10" Deep	24
E-FSK0612SS	12" Deep	26
E-FSK0618SS	18" Deep	34
E-FSK0624SS	24" Deep	41
E-FSK1008SS	8" Deep	30
E-FSK1010SS	10" Deep	33
E-FSK1012SS	12" Deep	44
E-FSK1018SS	18" Deep	45
E-FSK1024SS	24" Deep	54
E-FSK1208SS	8" Deep	33
E-FSK1210SS	10" Deep	37
E-FSK1212SS	12" Deep	40
E-FSK1216SS	16" Deep	47
E-FSK1218SS	18" Deep	51
E-FSK1220SS	20" Deep	42
E-FSK1224SS	24" Deep	54
E-FSK1808SS	8" Deep	46
E-FSK1810SS	10" Deep	50
E-FSK1812SS	12" Deep	54
E-FSK1816SS	16" Deep	63
E-FSK1818SS	18" Deep	68
E-FSK1820SS	20" Deep	72
E-FSK1824SS	24" Deep	81
E-FSK2408SS	8" Deep	58
E-FSK2410SS	10" Deep	63
E-FSK2412SS	12" Deep	68
E-FSK2416SS	16" Deep	79

General Accessories

Louver Plate and Drip Shield Kits

Louver Plate Kits

Louver Plate Kits

Designed to provide ventilation in enclosures where excessive internal heat or excessive moisture is a problem. Although louvers cannot keep all moisture out of an enclosure, gasketing or sealing the perimeter of the louver plate

reduces problems associated with moisture intrusion. These kits may be easily installed in the field by making a cutout of the proper size and attaching the louver plate in place. Louver plates are made from heavy gauge steel and have a gray powder coat finish. Hardware is furnished for

mounting. Modifications available on special order include special sizes, materials, finishes, etc.

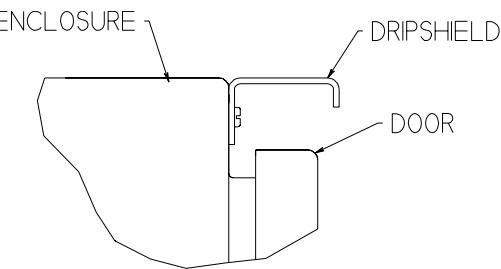
Stainless Steel Louver Plate Kits With #3 Polished Finish

Catalog Number	Size	No. of Louvers	Shipping Weight
A-33SSLPK	3-7/8x4-1/2	3	0.5
A-34SSLPK	4-3/4x4-1/2	4	0.5
A-43SSLPK	4-1/2x5-1/2	3	0.5
A-44SSLPK	5-5/8x5-1/2	4	1
A-84SSLPK	5-13/16x9-1/2	4	1
A-86SSLPK	8-3/16x9-1/2	6	2
A-88SSLPK	10-5/16x9-1/2	8	2

Steel Louver Plate Kits Painted 61 Grey Powder Coat

Catalog Number	Size	No. of Louvers	Shipping Weight
A-33LPK	3-7/8x4-1/2	3	0.5
A-34LPK	4-3/4x4-1/2	4	0.5
A-43LPK	4-1/2x5-1/2	3	0.5
A-44LPK	5-5/8x5-1/2	4	1
A-84LPK	5-13/16x9-1/2	4	1
A-86LPK	8-3/16x9-1/2	6	2
A-88LPK	10-5/16x9-1/2	8	2

Drip Shield Kits



Drip Shield Kits for NEMA Type 12 Enclosures

NEMA Type 3 enclosures can be made by installing a drip shield kit on standard NEMA 12 enclosures. A drip shield is installed over the

top of the door and stainless steel door hardware is installed in place of the standard plated hardware. Special sizes and materials may be fabricated as well.

Steel Drip Shield Kits Painted 61 Grey Powder Coat

Catalog Number	Use This Size Box	Shipping Weight
E-12DSK	12" Wide	1
E-16DSK	16" Wide	1
E-20DSK	20" Wide	2
E-24DSK	24" Wide	2
E-30DSK	30" Wide	3
E-36DSK	36" Wide	3
E-42DSK	42" Wide	3
E-48DSK	48" Wide	3
E-60DSK	60" Wide	5
E-72DSK	72" Wide	6

Stainless Steel Drip Shield Kits With #3 Polished Finish

Catalog Number	Use This Size Box	Shipping Weight
E-12SSDSK	12" Wide	1
E-16SSDSK	16" Wide	1
E-20SSDSK	20" Wide	2
E-24SSDSK	24" Wide	2
E-30SSDSK	30" Wide	3
E-36SSDSK	36" Wide	3
E-42SSDSK	42" Wide	3
E-48SSDSK	48" Wide	3
E-60SSDSK	60" Wide	5
E-72SSDSK	72" Wide	6

General Accessories

Window Kits

Framed Window Kits



Steel Window Kits are designed for use on NEMA Type 4 and Type 12 enclosures. Stainless Steel Window Kits are suitable for NEMA type 4, Type 4X, Type 12, and Type 13 enclosures in applications where corrosion is a problem. These kits are easily installed by making a cutout in the enclosure and attaching the window and frame in place. Frames are made from heavy gauge steel and have a gray powder coat finish OR heavy gauge Type 304 stainless steel with a

brushed finish. The window is .25 inch Lexan[®] material. Oil-resistant gasketing insures a watertight seal around the perimeter of the window and frame. All mounting hardware is furnished. Special sizes, material, and finishes can be provided on special order. Consult factory for information.

Steel Window Kits

Catalog Number	Size & Description	Shipping Weight
E-SWK53	5x3 Viewing Area	2
E-SWK95	9x5.5 Viewing Area	3
E-SWK133	13x3 Viewing Area	4
E-SWK138	13x8 Viewing Area	4
E-SWK175	17x5.5 Viewing Area	5
E-SWK1711	17x11 Viewing Area	7
E-SWK2315	23x15 Viewing Area	9
E-SWK2919	29x19 Viewing Area	12
E-SWK3523	35x23 Viewing Area	14

Stainless Steel Window Kits

Catalog Number	Description Size	Shipping Weight
E-SSWK53	5x3 Viewing Area	2
E-SSWK95	9x5.5 Viewing Area	3
E-SSWK133	13x3 Viewing Area	4
E-SSWK138	13x8 Viewing Area	4
E-SSWK175	17x5.5 Viewing Area	5
E-SSWK1711	17x11 Viewing Area	7
E-SSWK2315	23x15 Viewing Area	9
E-SSWK2919	29x19 Viewing Area	12
E-SSWK3523	35x23 Viewing Area	14

Hinged Window Kits



These window kits are designed to cover panel devices that need to be accessed under a variety of situations. They are for mounting on Listed Industrial Control Panel Enclosures and have been evaluated for Type 3R and Type 12 ratings. These kits have been successfully installed and placed in purging applications. These windows

can be ordered for kit style installation or ordered and installed right along with your enclosure. The U.L. rating is for Type 3R and Type 12, as a Recognized Component, for the U.S. and also C-U.L. Canadian Recognized. At print time Type 4 and Type 4X evaluations were being pursued.

Steel Hinged Window Kit Sizes

Catalog Number	Window Size	Shipping Weight
E-HWK95	9x 5.5	4
E-HWK138	13 x 8	5
E-HWK1711	17x 11	8
E-HWK2315	23 x 15	10
E-HWK2919	29 x 19	13
E-HWK3623	36 x 23	16

Stainless Steel Hinged Window Kit Sizes

Catalog Number	Window Size	Shipping Weight
E-HWKSS95	9x 5.5	4
E-HWKSS138	13 x 8	5
E-HWKSS1711	17x 11	8
E-HWKSS2315	23 x 15	10
E-HWKSS2919	29 x 19	13
E-HWKSS3623	36 x 23	16

General Accessories

Door Stop Kits

Mechanical Adjustable Door Stop Kit

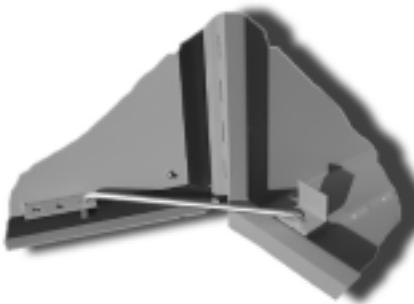


This mechanical adjustable door stop kit is designed for most standard Type 4 and 12 enclosures. It is designed for field installation, but you may order it to be installed in our shop. For proper operation, the door opening must be a minimum of 16 inches. A sliding arm with a tightening knob allows for an adjustable opening width. These kits are available in Plated Steel and 304 Stainless Steel.

Mechanical Adjustable Door Stop Kit

Catalog Number	Description	Shipping Wt.
MP-DPSTOP2	Plated Steel Door Stop Kit	3
MP-DPSTOP2A	Plated Steel Door Stop Kit Installed	3
MP-DPSTOP3	Stainless Steel Door Stop Kit	3
MP-DPSTOP3A	Stainless Steel Door Stop Kit Installed	3

Manual Heavy Duty Door Stop Kit



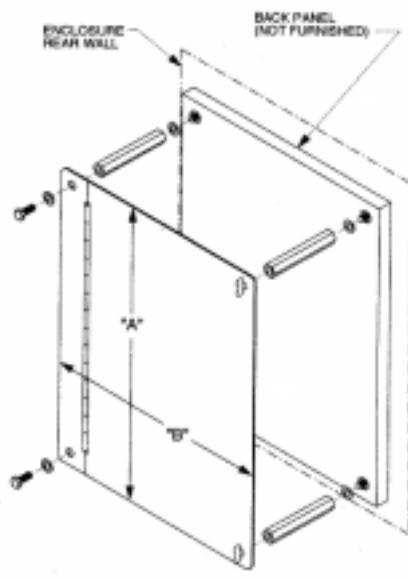
This alternative mechanical adjustable door stop is designed for most standard freestanding and floormount Type 4 and 12 enclosures. It is designed primarily for in house installation, but it can be adapted for field installation. The pivot arm is fabricated from 3/8" round plated steel rod and is capped on one end to create the pivot. The arm is placed into one of three open width options of the holding bracket. The arm is lifted out of the holding bracket and returned to the keeper when not in use. This door stop is offered in steel or stainless steel depending on the application.

Manual Heavy Duty Door Stop

Catalog Number	Description	Shipping Wt.
MP-DPSTOP	Painted Steel Door Stop Kit	3
MP-DPSTOPA	Painted Steel Door Stop Kit Installed	3
MP-DPSTOP1	Stainless Steel Door Stop Kit	3
MP-DPSTOP1A	Stainless Steel Door Stop Kit Installed	3

General Accessories

Hinged Deadfront Panels



A = ENCLOSURE HEIGHT MINUS 3 1/4 INCHES
B = ENCLOSURE WIDTH MINUS 3 1/4 INCHES

EMF offers a new solution for an old problem. Our hinged aluminum deadfront panels give you the flexibility in mounting your devices within the protected confines of the enclosure. This new accessory is best suited for NEMA 12/12SS and NEMA 4/4XSS wallmount enclosures. The hinged deadfront is attached directly to the panel mounting studs by use of threaded aluminum risers. Door opening and closing is actuated

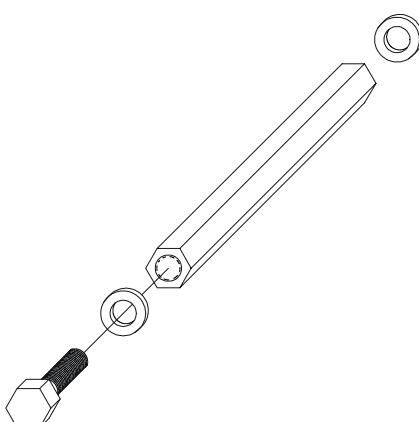
through the use of 1/4 turn fasteners which are included with your order of the riser kit. The deadfronts are fabricated from .080 marine grade aluminum with a brushed finish.

Note: Order riser kits separately.

EMF Aluminum Deadfront Panel Assemblies

Catalog Number	Fits Enclosure Sizes	Shipping Wt.
EDF-2020	For 20 x 20	3
EDF-2420	For 24 x 20	3
EDF-2424	For 24 x 24	4
EDF-3024	For 30 x 24	5
EDF-3030	For 30 x 30	6
EDF-3624	For 36 x 24	5
EDF-3630	For 36 x 30	7
EDF-3636	For 36 x 36	10
EDF-4230	For 42 x 30	9
EDF-4236	For 42 x 36	11
EDF-4830	For 48 x 30	10
EDF-4836	For 48 x 36	13

Riser Kits



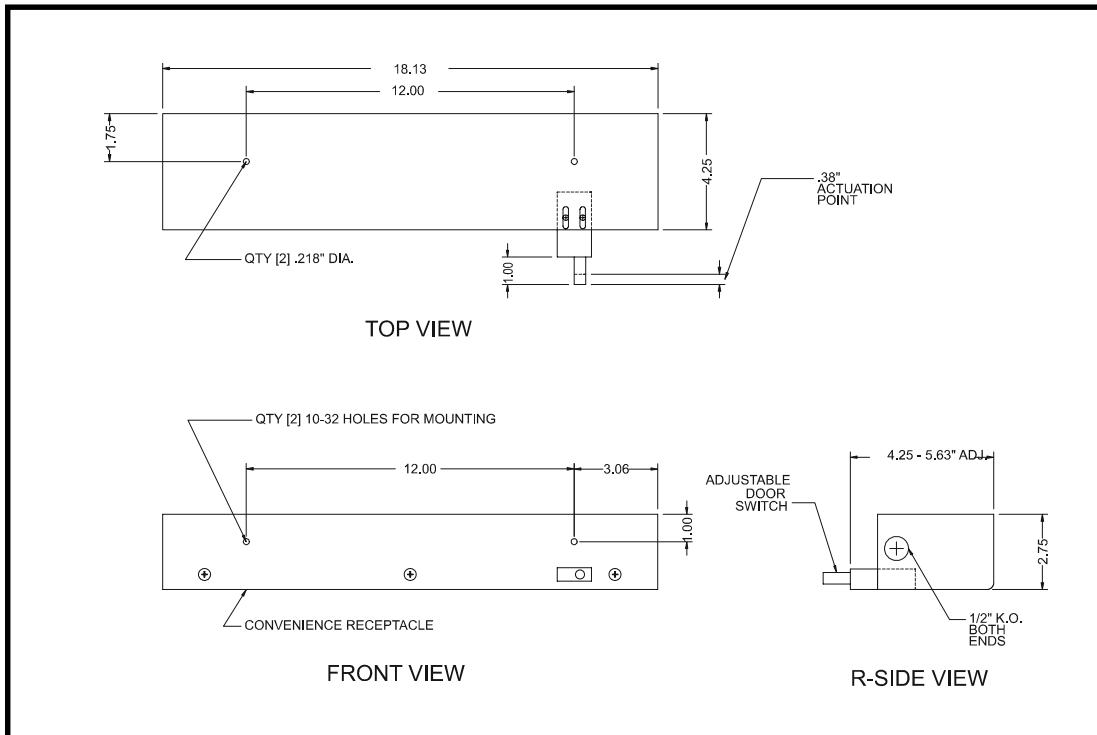
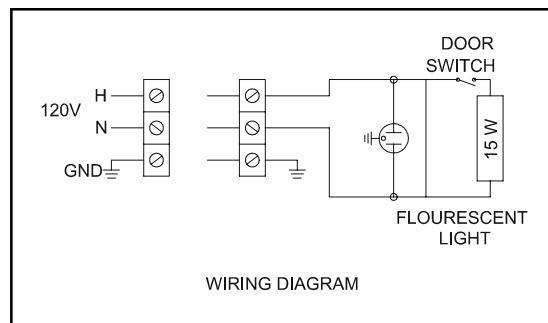
EMF Riser Kit Assemblies

Catalog Number	Stud Configuration	Enclosure Depth	Shipping Wt.
EDF-08RIS4	for 4 studs	for 8" deep	1
EDF-10RIS4	for 4 studs	for 10" deep	2
EDF-12RIS4	for 4 studs	for 12" deep	2
EDF-16RIS4	for 4 studs	for 16" deep	3
EDF-08RIS6	for 6 studs	for 8" deep	2
EDF-10RIS6	for 6 studs	for 10" deep	2
EDF-12RIS6	for 6 studs	for 12" deep	2
EDF-16RIS6	for 6 studs	for 16" deep	3
EDF-08RIS8	for 8 studs	for 8" deep	2
EDF-10RIS8	for 8 studs	for 10" deep	2
EDF-12RIS8	for 8 studs	for 12" deep	3
EDF-16RIS8	for 8 studs	for 16" deep	4

Light Kits



EMF Light kits are available for your interior lighting needs. The kits are designed for field installation, or you may order it to be installed in our shop as part of your order. Our kits include a 15 watt fluorescent lamp, which is protected by a sleeve guard, and features a 125V 15 AMP single receptacle. Mounting hardware is included.



Catalog Number	Description	VAC	Hz	AMPS	Shipping Weight
MP-18LIGHT	Flourescent Lighting Package	125	50/60	15	7LBS.

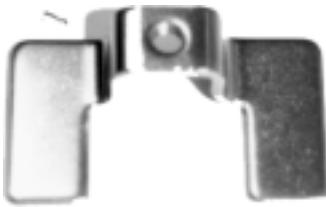
General Accessories

Clamping Systems

EMF has experience using a wide variety of latching and clamping hardware. Much of the hardware below has been tested for strength and applicability by UL and CSA. All of the hardware listed here has been used successfully

on EMF enclosures and continue to serve their users under a variety of environmental conditions. Although we can't dedicate the space to show all of the hardware possibilities, we have included here the most popular models available

for use on your standard or custom enclosure. Ask our sales team for an adder or a quote today. These items may be purchased separately.



CS-N12BKT Nema 12 Bracket
CS-N04BKT Nema 4 Bracket



CS-N04CLP Nema 4 Clamp Assembly



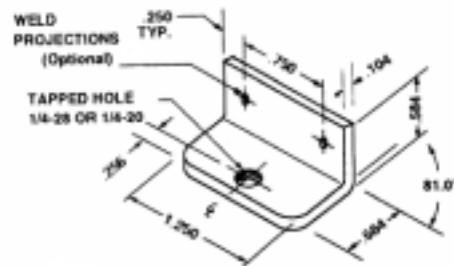
CS-N12CLP Nema 12 Clamp Assembly



CS-MSJCLP Mild Steel J-Clip



CS-SSJCLP Stainless J-Clip



CS-MSJBKT Mild Steel J-Bracket
CS-SSJBKT Stainless J-Bracket



CS-QSSCLP Stainless Quick Release
CS-QMSCLP Mild Steel Quick Release



CS-QRJCLP JIC Stainless Quick Release

Handle Systems

EMF has experience using a wide variety of latching and clamping hardware. Much of the hardware below has been tested for strength and applicability by UL and CSA. All of the hardware listed here has been used successfully on EMF enclosures and continue to serve their

users under a variety of environmental conditions. Although we can't dedicate the space to show all of the hardware possibilities, we have included here the most popular models available for use on your standard or custom enclosure.

Ask our sales team for an adder or a quote today. These items may be purchased separately also.



HS-EM3PLH 3 Point L-Handle With key*



HS-EM3PLH2 3 Point L-Handle With key*



HS-3PEMSH ... 3 Point Swing Handle With key*



HS-EM3PLH5 3 Point L-Handle



HS-1PFLSH 1 Point Flush Handle (Std. on N1 Panel encl.)
HS-KY1PFL 1 Point Flush Handle With key



HS-3PTHOL 3 Point Flush T-Handle With key*

***Please indicate enclosure size to obtain correct rod length.*

General Accessories

Latching Systems and Grounding Kits

Latching Systems



LS-25CHCL Chrome 1/4 Turn Latch



LS-25STPL Steel Padlocking 1/4 Turn Latch



LS-25PYCL Poly 1/4 Turn Latch

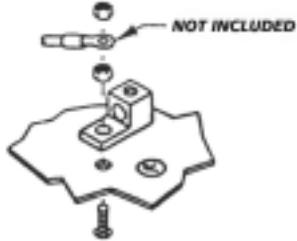


LS-BKLTWL Flush Black Lift and Turn with Lock

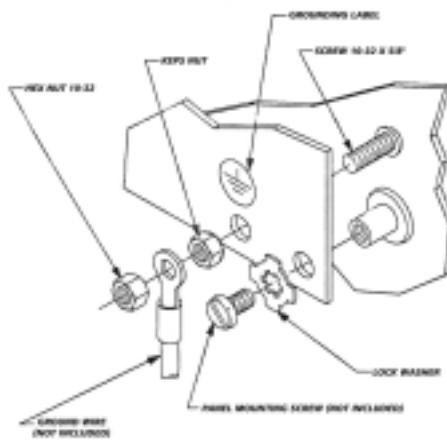


LS-BKLTFM Flush Black Lift and Turn

Grounding Kits



GROUNDKIT01 NEMA Ground Kit



GROUNDKIT02 JIC Box Ground Kit

General Accessories

Miscellaneous Parts

On occasion, maintenance may be required for your enclosure system. The products below can help with the repair or replacement of

gasket, paint, eyebolts, or print pockets. The gasketing is a UL recognized component and can be utilized for a variety of enclosure applications.



MP-58GSKT 50' Roll of 5/8"x1/4" Gasket



MP-01GSKT 50' Roll of 1" x 1/4" Gasket



MP-WTPNTO 12 oz. Can Spray White



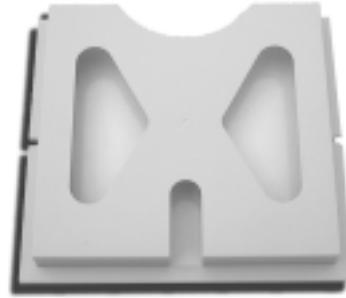
MP-GYPNTO 12 oz. Can Spray Grey



MP-34EYBT 3/4" Eye Bolt



MP-50EYBT 1/2" Eye Bolt



MP-PNTPKT Large Print Pocket



MP-SMPNTPKT Small Print Pocket

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