

AP MINIFORT[®]

Telecommunications Enclosure

Owner's Manual



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Contacting Us

American Products can be contacted for any issues that arise with the supplied product.

Technical assistance is available 9am to 4pm central standard time.

- Toll Free: (855) 736-2135
- Phone: (417) 736-2135
- Fax: (417) 736-9535
- Email: Sales@amprod.us
- Web: www.amprod.us

When calling, please have available, or if faxing or emailing, be sure to provide:

- Part Number
- Serial Number
- Date of Purchase
- Date of Installation




Safety First

This publication provides a description of the American Products AP MINIFORT® enclosure. The mechanical descriptions, typical applications, installation instructions, safety guidelines, grounding and bonding are included.

Four types of messages may appear throughout this manual, identified by the following icons and signal words:

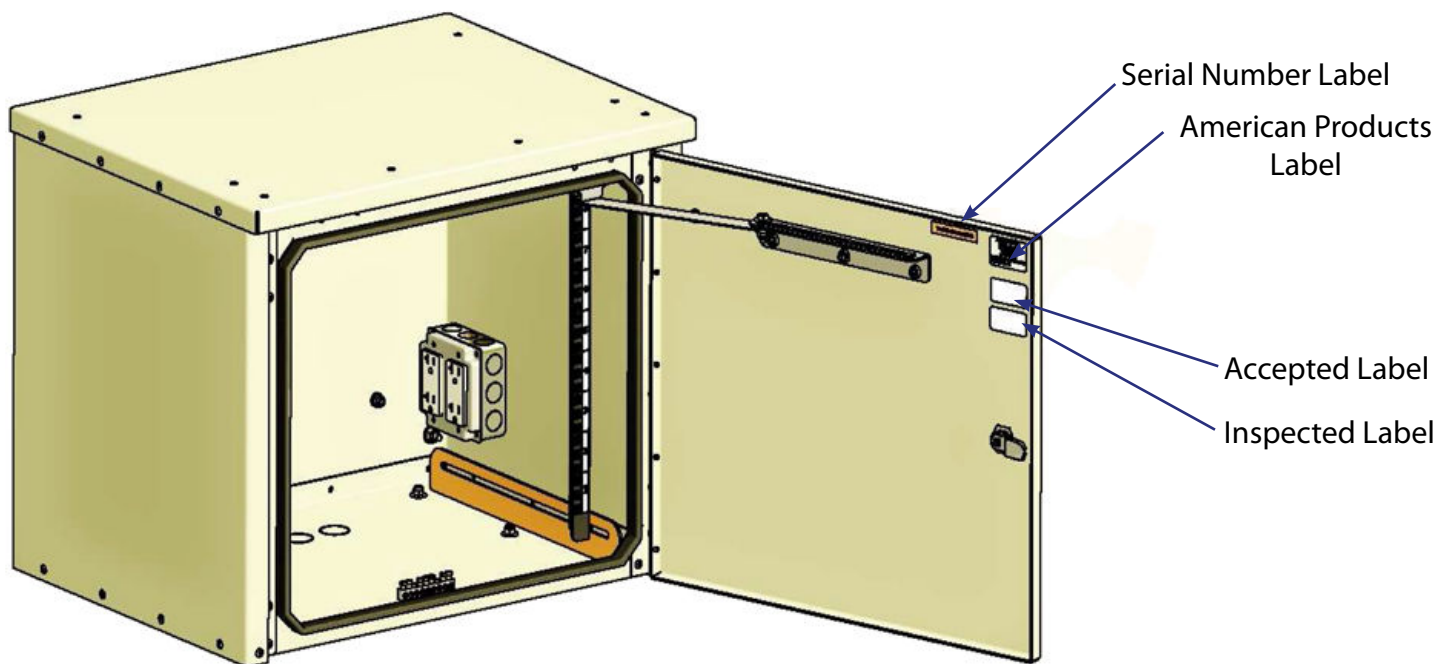


Read equipment manufacturer's manual and this material before using this product. Failure to do so can result in serious injury or death.

 DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.
 WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE:	Indicates information considered important, but not hazard-related (e.g. messages relating to property damage). The safety alert symbol shall not be used with this signal word. When a signal word is used for messages relating to property damage, NOTICE is the choice of signal word.



Important Labeling Information



AP MINIFORT® Enclosure for Type 3R

Tested to Standards:

UL 50, UL 50E, CSA C22.2 No. 94.1, C22.2 No.94.2

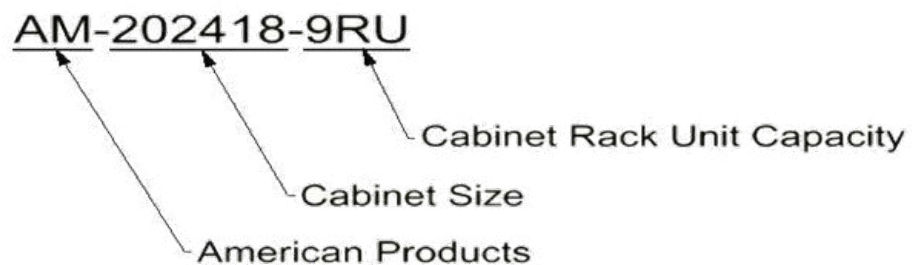
Certification Testing performed at Intertek, Plano TX.

Product Overview

- The cabinet is constructed of Aluminum\Galvanized or Stainless Steel with optional powder coat painted finish for reduced weight and superior corrosion resistance. The front door is equipped with two quarter-turn latches.
- The equipment-mounting bay has a 9RU to 24RU of vertical 19"or 23" rack space in the front of the equipment bay. The 19" or 23" rack is also adjustable from front to rear. Two door options are also available for equipment accessibility.
- The cabinet utilizes stainless steel hardware, UL recognized EPDM edge gasketing (temp range of -40F to +212 F.
- When installing cabling or equipment that enters the cabinet, Type 3R entrances, fittings or equipment is to be used to maintain the integrity of the enclosure.
- No live equipment or components are to be installed below the lowest RU rack mounting provision or on the floor of the enclosure.
- The Cabinet is designed to allow various accessories to be mounted on the enclosure to meet customer requirements. For part number structure for Parent enclosure and accessories see diagram below:

PART NUMBERING EXAMPLE

Cabinets:

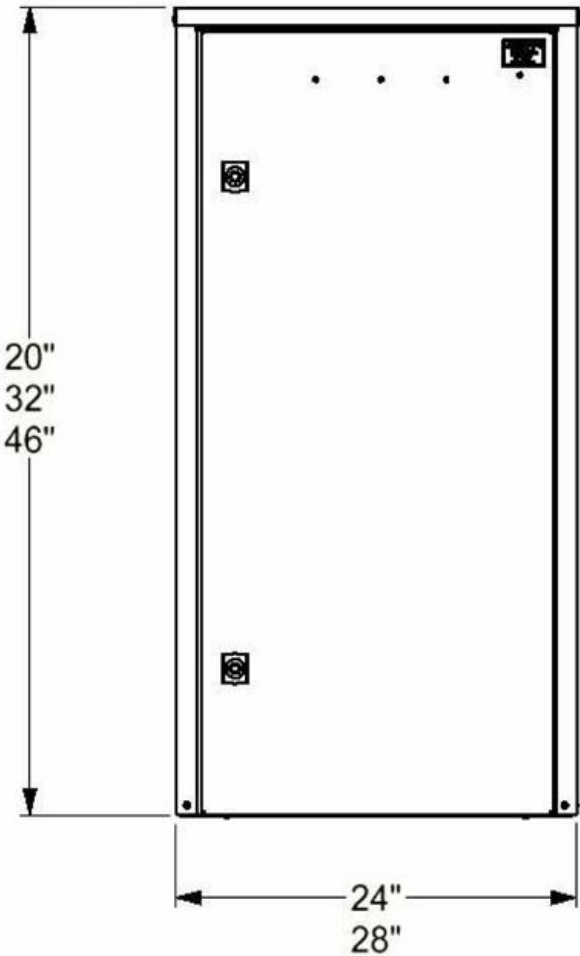


Accessories:

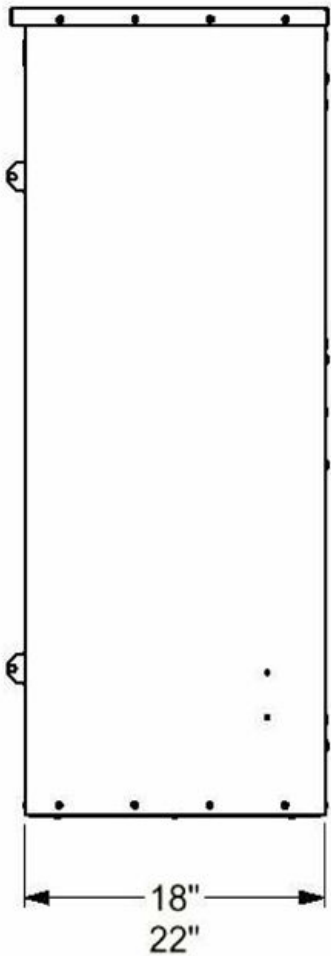


Product Specifications

Available
Cabinet
Heights

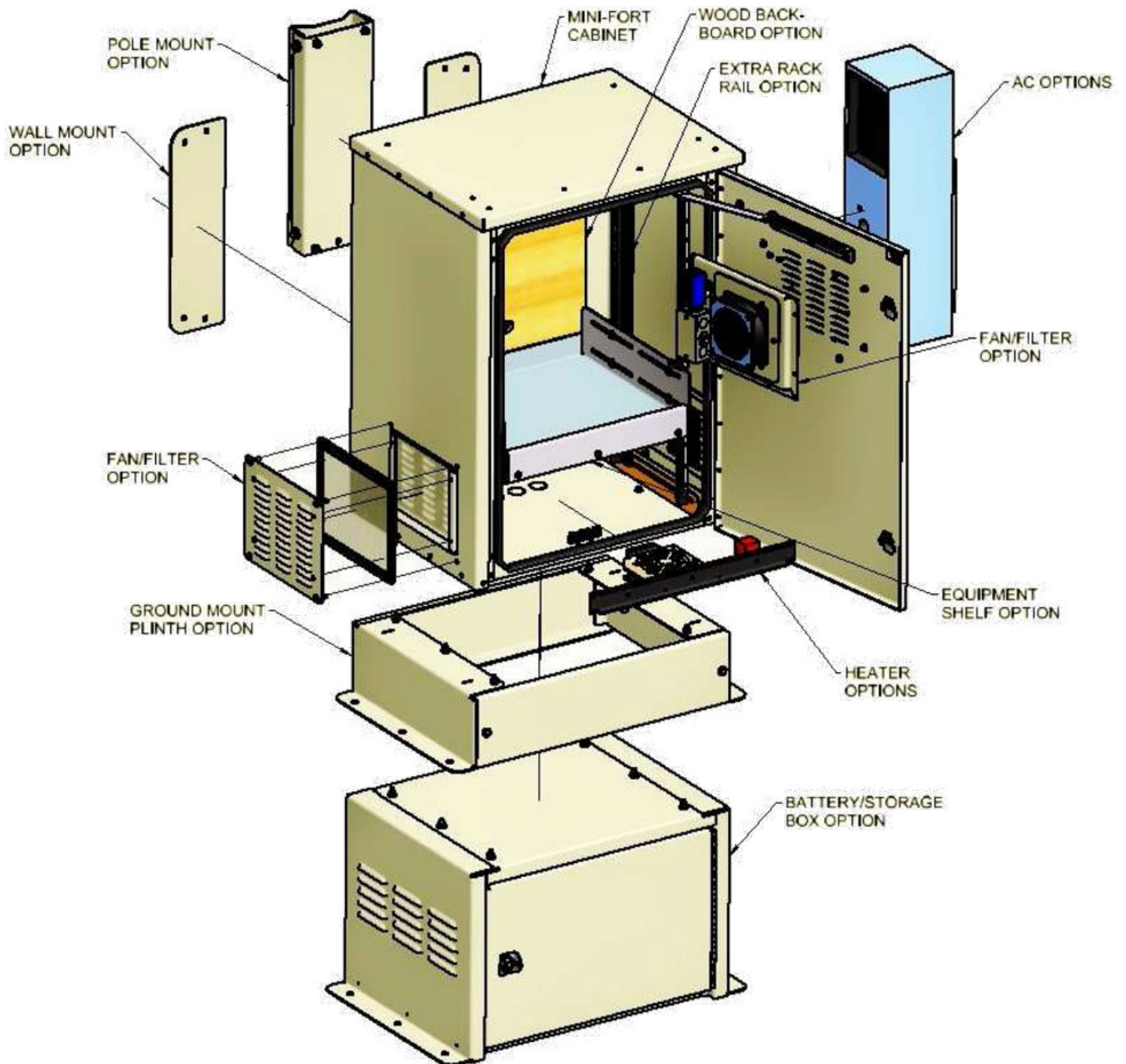


Available
Cabinet
Widths



Available
Cabinet
Depths

Options



Installation

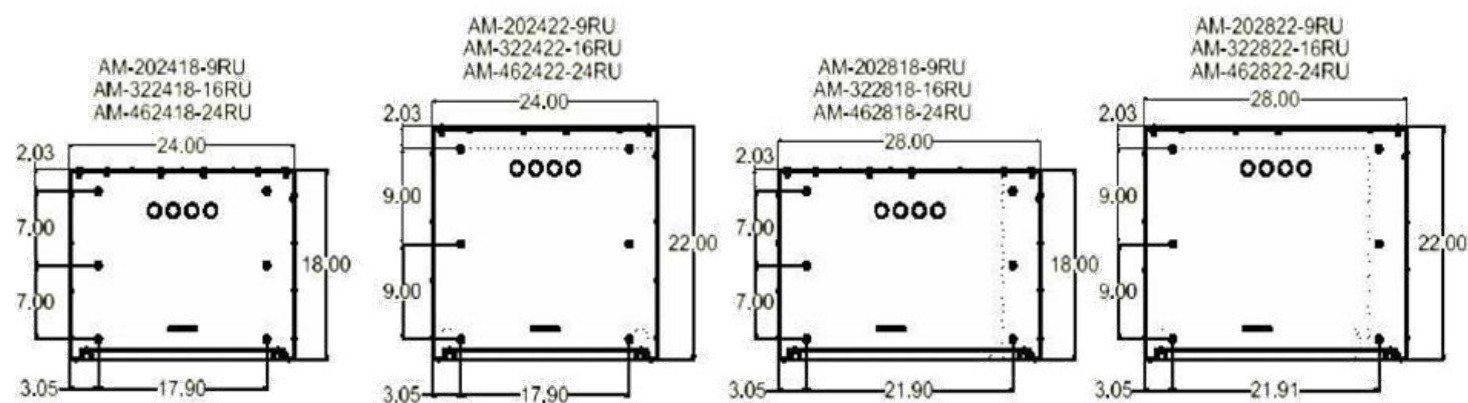
The AP MINIFORT® cabinet should be mounted on a concrete pad. See the figure below for pad mounting hole patterns.



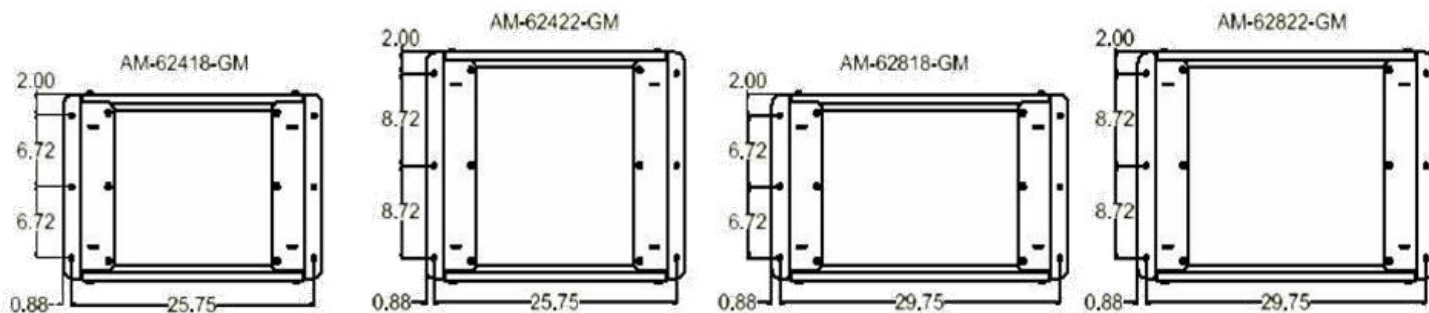
WARNING

During cabinet mounting, fixture the cabinet securely to avoid personal injury or cabinet damage.

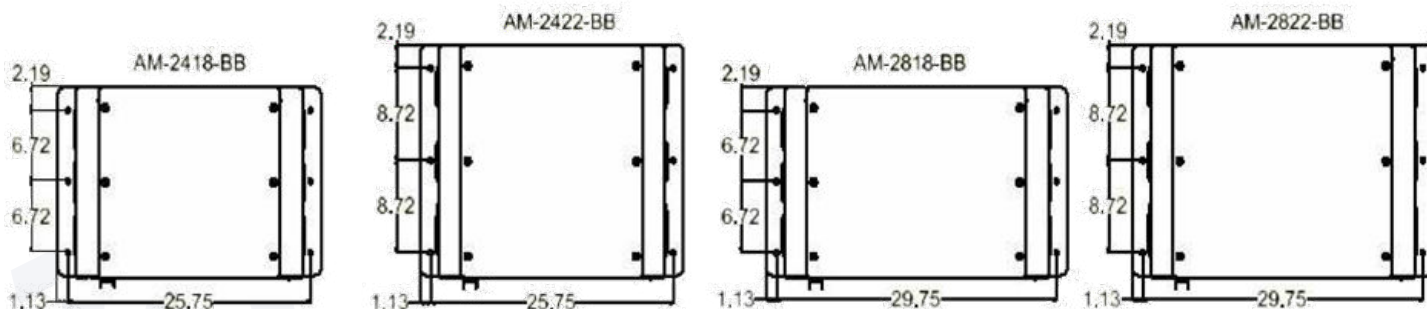
CABINET MOUNTING LAYOUT



MOUNTING PLINTH LAYOUT

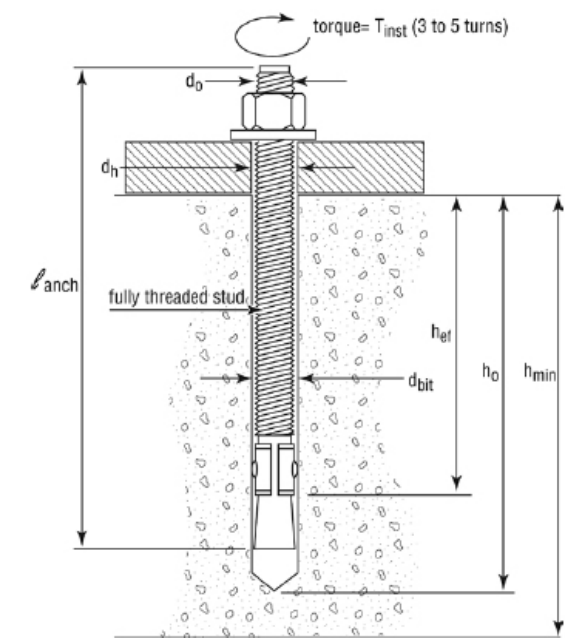


BATTERY/STORAGE BOX LAYOUT



Mounting Hardware

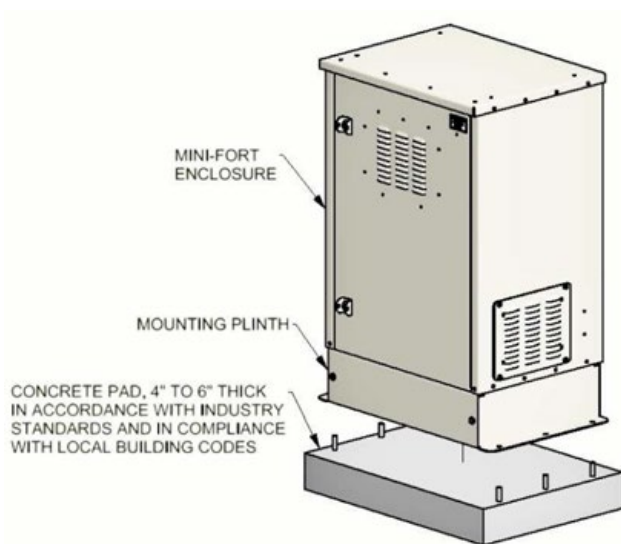
When securing the American Products AP MINIFORT® enclosure to a concrete pad, we recommend utilizing a minimum of a 3/8" nominal diameter expansion anchor for maximum stability. Specifications below are for the Truebolt brand wedge type expansion anchor (or equivalent).



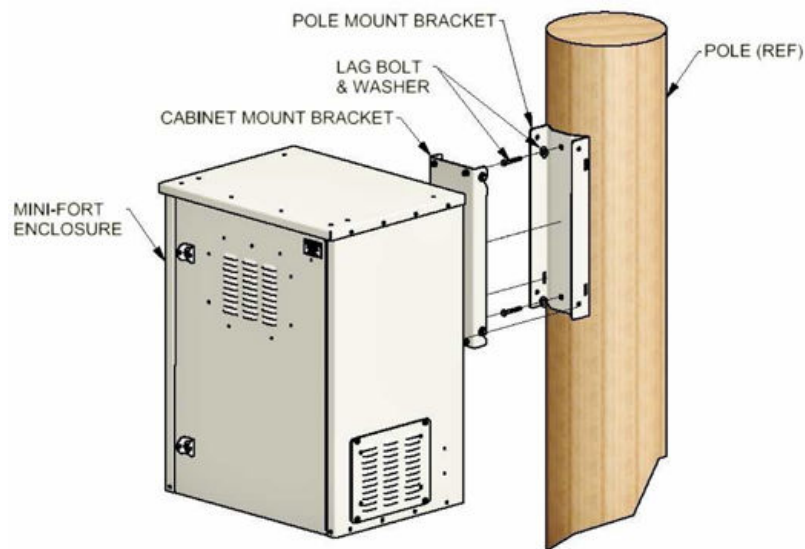
	Symbol	Units	Nominal Anchor Diameter (in)	
Anchor outer diameter	d_o	in	.375	
Nominal carbide bit diameter	d_{bit}	in	3/8	
Effective embedment depth	h_{ef}	in	1-3/4	2-5/8
Min hole depth	h_o	in	2-1/2	3-3/8
Min slab thickness	h_{min}	in	4	5
Installation torque	T_{inst}	ft-lb	25	
Min hole diameter in fixture	d_h	in	7/16	



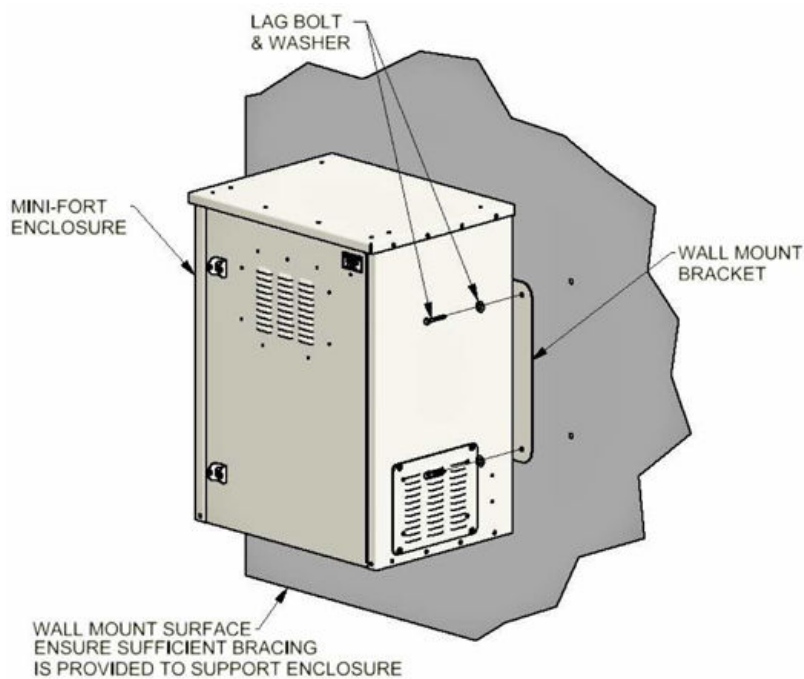
Mounting Provisions



PAD MOUNTING APPLICATION:
VERIFY CABINET CLEARANCES
REQUIRED FOR MINI-FORT MODEL



POLE MOUNTING APPLICATION:
VERIFY CABINET CLEARANCES
REQUIRED FOR MINI-FORT MODEL

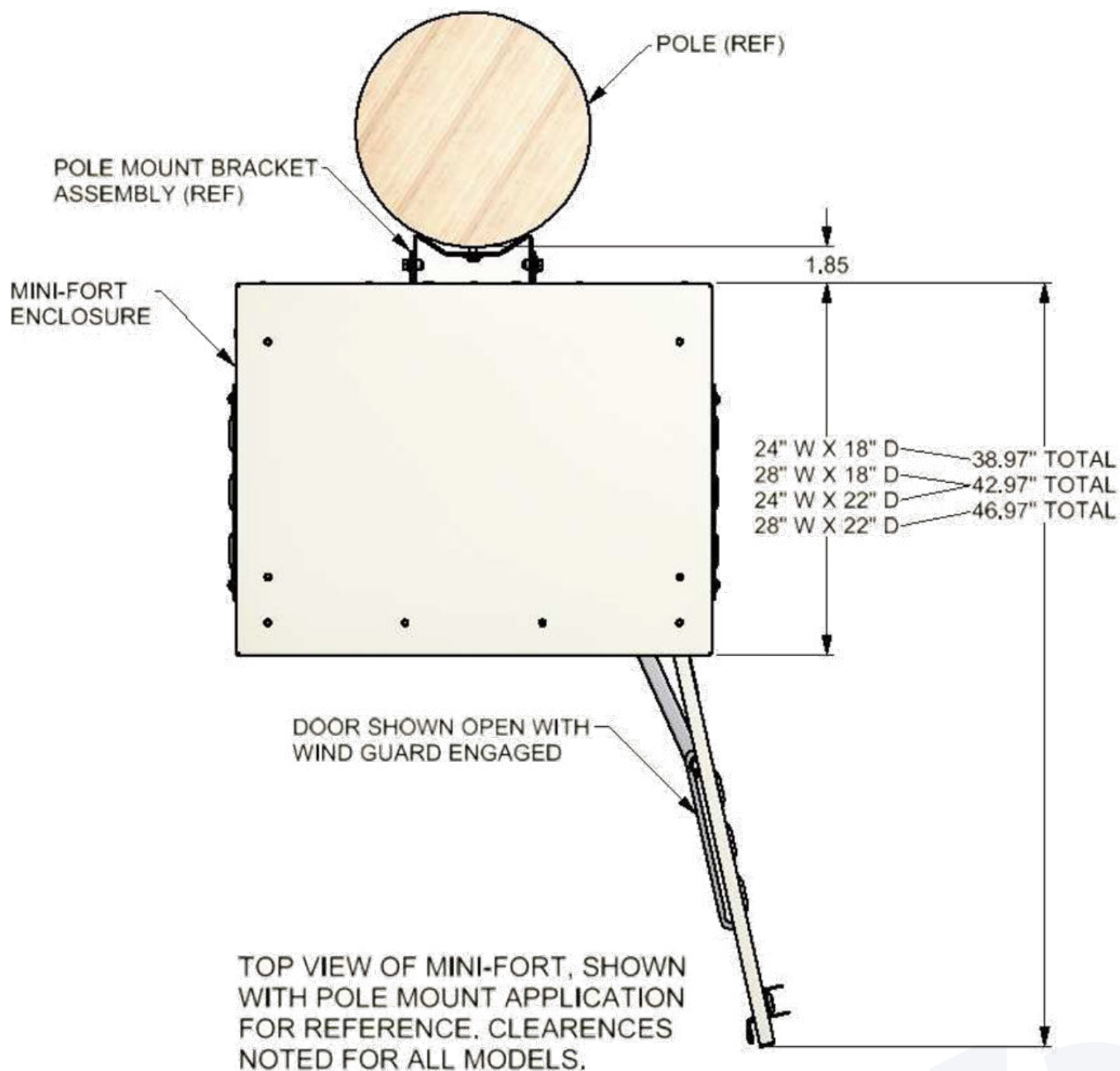


WALL MOUNTING APPLICATION:
VERIFY CABINET CLEARANCES
REQUIRED FOR MINI-FORT MODEL

Clearance Requirements

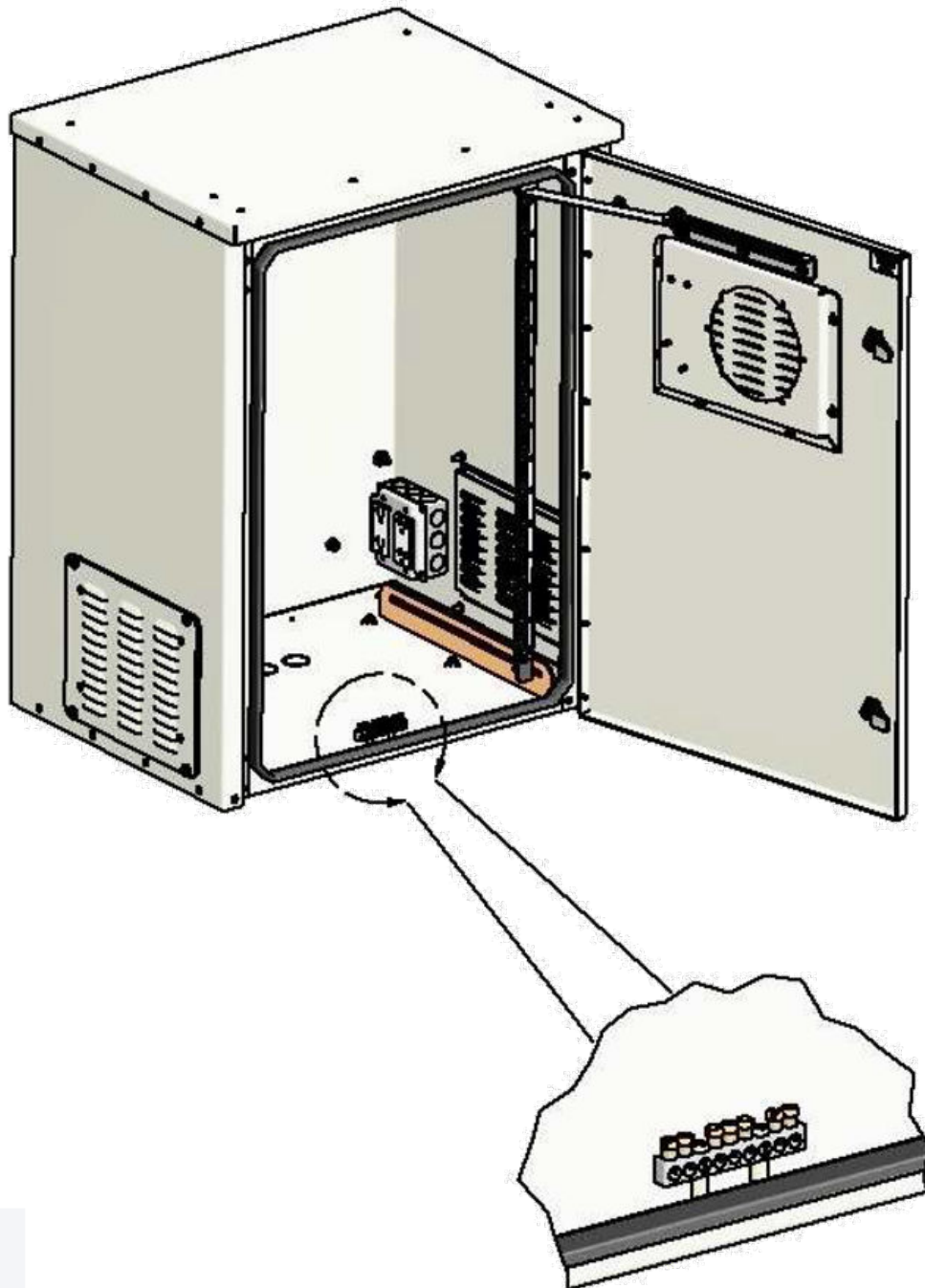
When selecting a location to mount the cabinet, ensure that proper clearance is available to allow the cabinet door to open fully.

See Figure below for top view of cabinet footprint.



Grounding Information

Bonding and grounding should be done in accordance with industry standard procedures and comply with local electrical codes. The main cabinet ground bar is located in the rear of the cabinet as shown below.

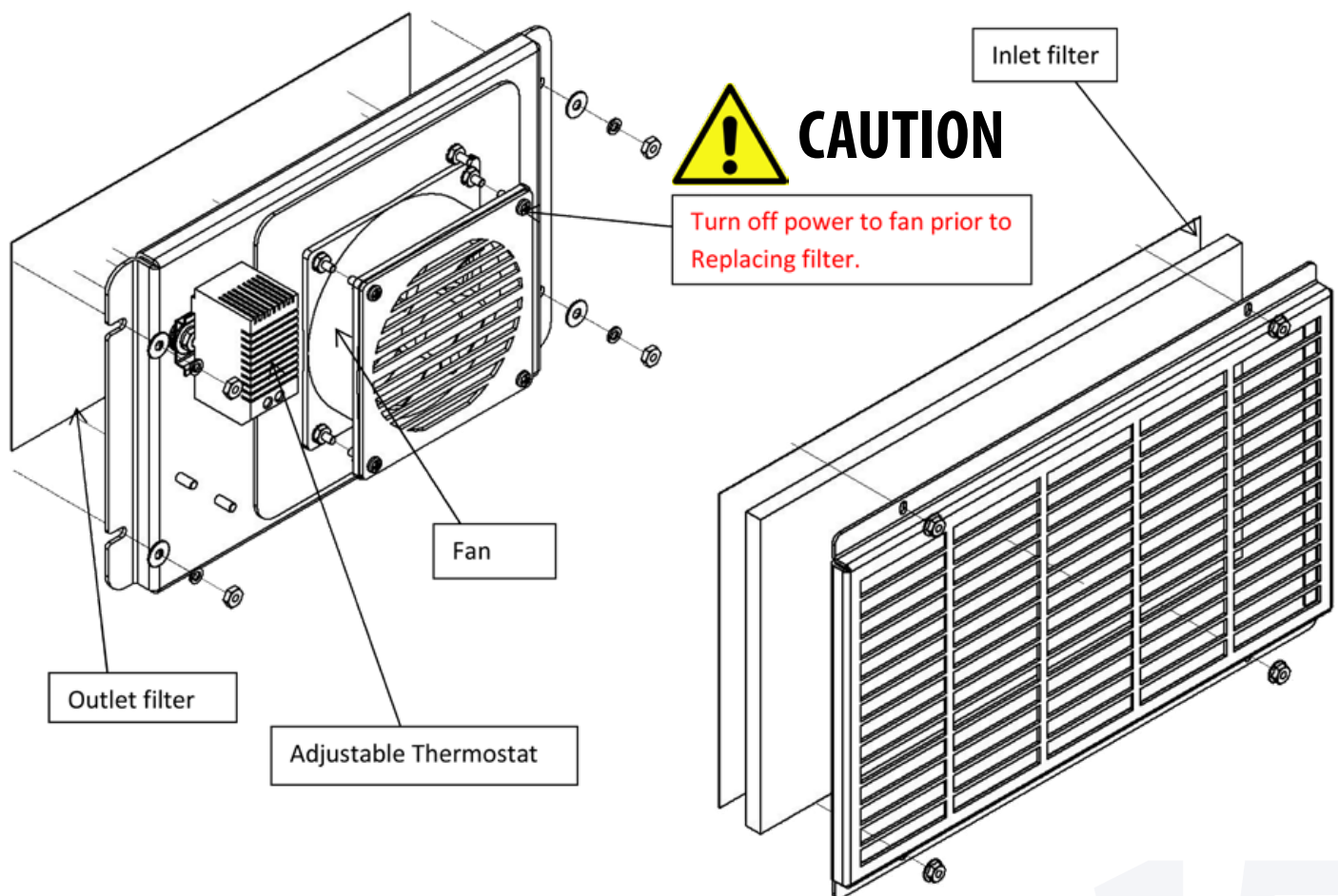


FAN VENTILATION SYSTEM (OPTIONAL)

The AP MINIFORT® can be equipped with a fan ventilation system and thermostat control.

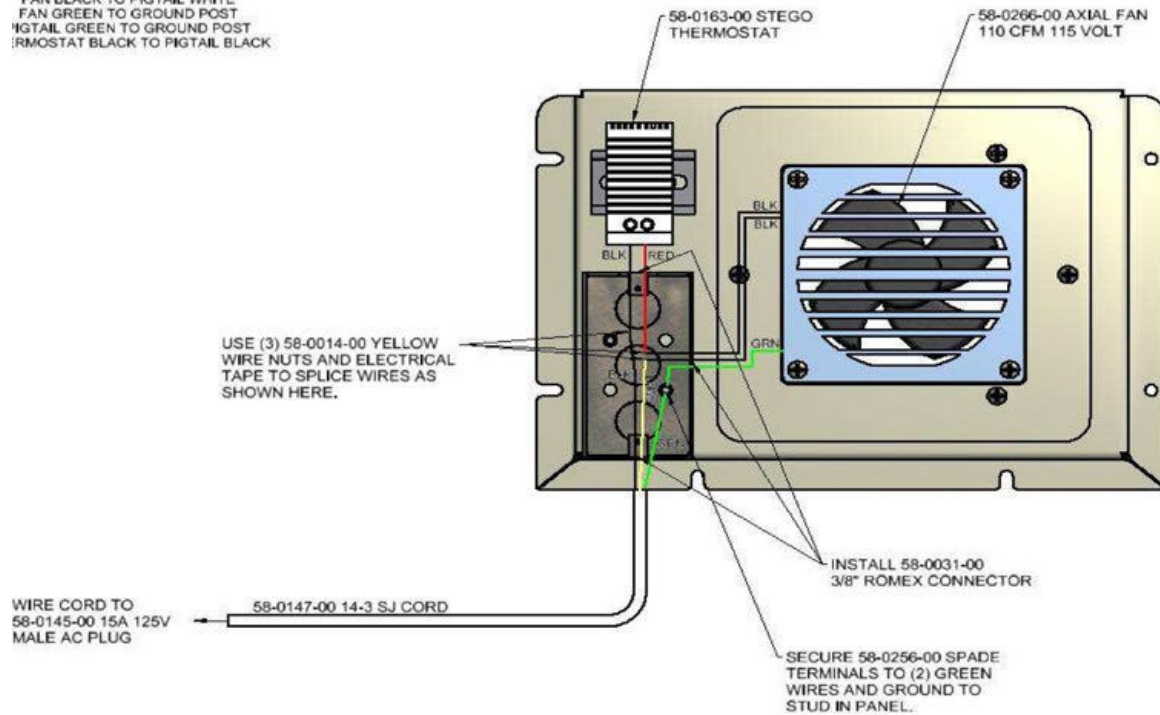
The cabinet has two filters. The inlet filters are on the inside of the cabinet. To replace the filter remove the four nuts that secure the filter frame, remove old filter media and replace with new media and reinstall the filter frame. The outlet filter, which primarily protects the cabinet from dust and debris flowing to the cabinet when the fan is not active, is located between the fan panel and the exterior louvers on the cabinet.

The fan forces air out of the top exterior louvers. This action draws outside air into the cabinet through the bottom set of filtered louvers on the exterior of the cabinet.

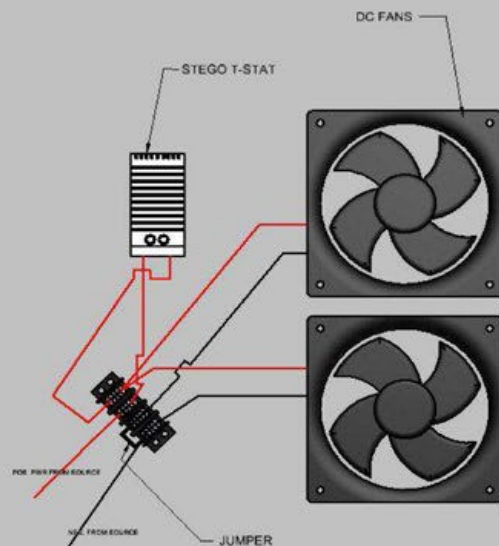


100 CFM Fan Wiring Diagram

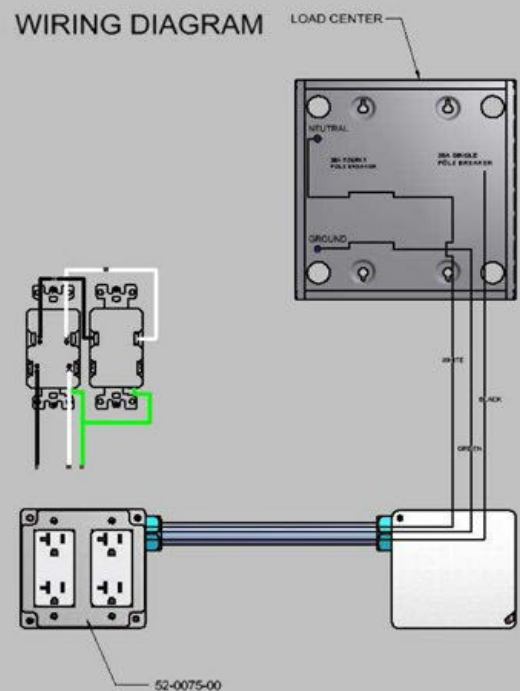
WIRING CONNECTIONS
 FAN BLACK TO THERMOSTAT RED
 FAN BLACK TO PIGTAIL WHITE
 FAN GREEN TO GROUND POST
 THERMOSTAT GREEN TO GROUND POST
 THERMOSTAT BLACK TO PIGTAIL BLACK



12,24,48 VOLT DC FAN WIRING DIAGRAM



WIRING DIAGRAM



Appendix A

Technical Support

American Products can be contacted for any issues that arise with the supplied product.

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When calling, please have available, or if faxing or emailing, be sure to provide:

- Part Number _____
- Serial Number _____
- Date of Purchase _____
- Date of Installation _____

Warranty Policy

Enclosures designed and manufactured by American Products shall be warranted to be free of defects in material or workmanship for a period of 5 years (U.S. & Canada) and 3 years for International deployments from the date of shipment. Should the product be proven to be defective, American Products will have the option to repair or replace the product. Items included with the enclosures, not manufactured by American Products, will carry the original manufacturer's warranty.

It is the responsibility of the buyer to communicate any special environmental concerns in which the enclosures will be utilized. Special materials may be required to allow for proper corrosion resistance for harsh environments. The warranty does not cover enclosures used in applications and environments for which they were not designed. Warranty does not cover abuse, modifications by others or reimbursement for unauthorized rework. At no time will American Products reimburse purchaser for unauthorized rework on any product.

Under no circumstances is American Products liable for any consequential damages, liquidated damages, loss in profits or revenues, costs of capital, downtime costs or damages related to our product performance.

Warranty Claims

Enclosures found to be defective will be repaired or replaced with the same or comparable product. All warranty claims must be communicated to our customer service (855) 736-2135 department to obtain an RMA number. For warranty claims in the USA and Canada, freight will be managed and paid by American Products. For warranty claims outside of the USA and Canada, the customer will be responsible for managing the freight and freight expenses. Products being returned from other than US or Canada are to be returned to the factory in Strafford, MO to receive warranty resolution, once approved with an RMA.

Except for the express warranty stated above, American Products makes no other warranties with respect to the product, expressed or implied, including but not limited to merchantability or fitness for a particular purpose.



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