



Owner's Manual



Form 36-0061-05 Ver. 07/07/2023



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Safety First

The mechanical descriptions, typical applications, installation instructions, safety guidelines, grounding and bonding are included in this publication.

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



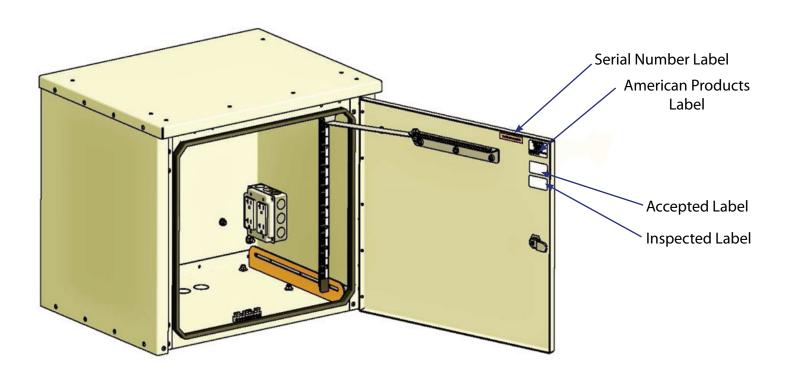
Read equipment manufacturer's manual and this material before using this product. Failure to do so can result in serious injury or death.

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.

NO JOB IS
SO IMPORTANT,
NO SERVICE
SO URGENT
THAT WE CANNOT
TAKE TIME
TO PERFORM
ALL WORK
SAFELY!



Important Labeling Information



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.

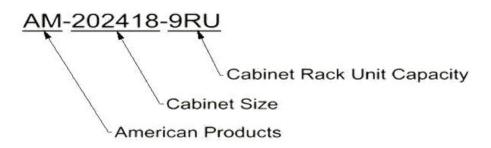


Product Overview

- 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



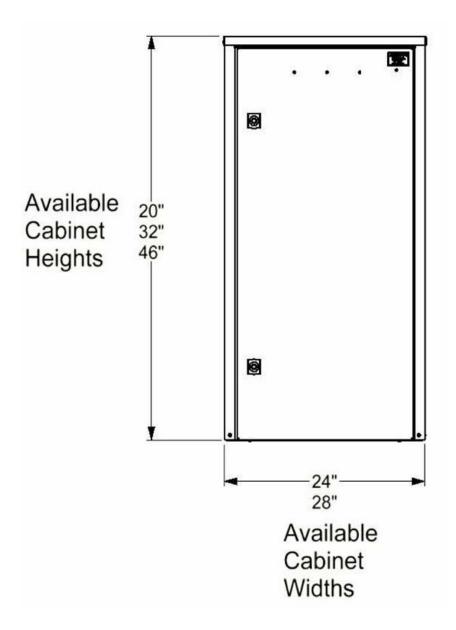


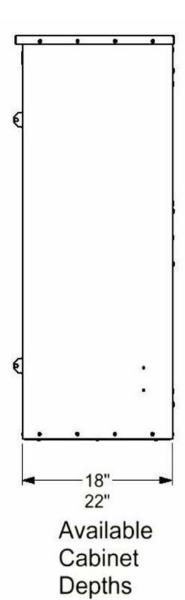
Accessories:



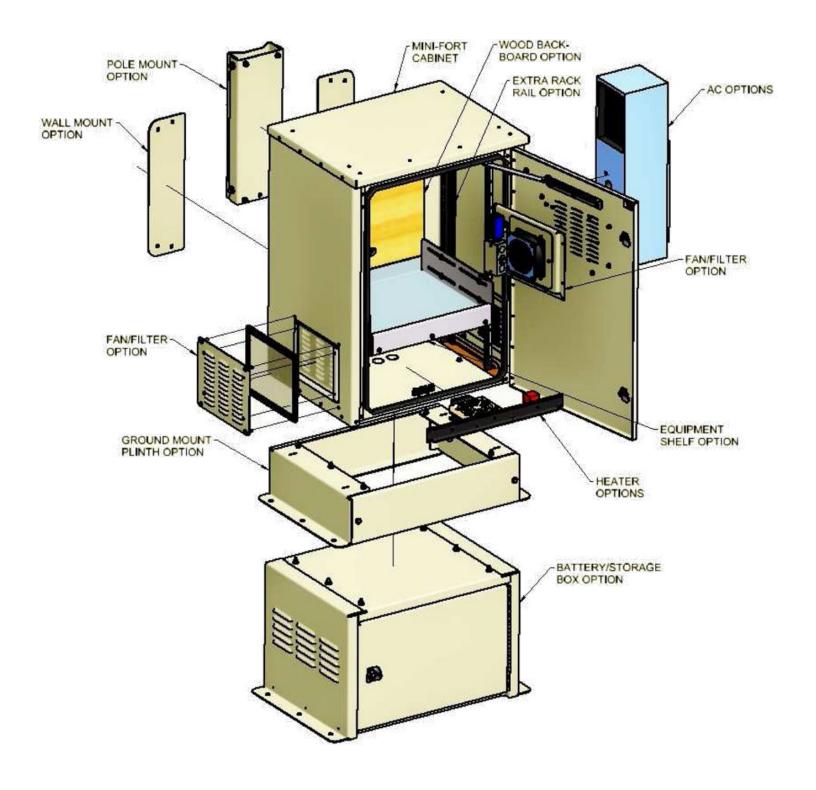


Product Specifications





Options





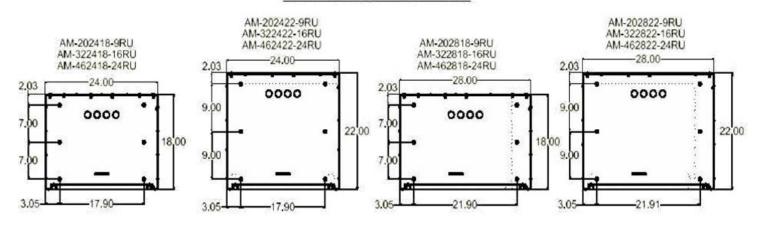
Installation

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

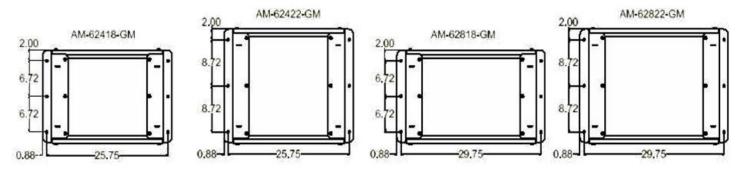


During cabinet mounting, fixture the cabinet securely to avoid personal injury or cabinet damage.

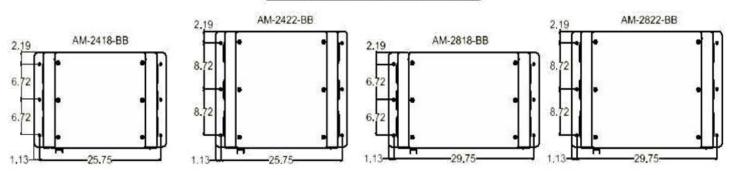
CABINET MOUNTING LAYOUT



MOUNTING PLINTH LAYOUT



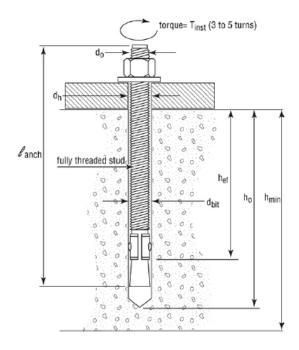
BATTERY/STORAGE BOX LAYOUT



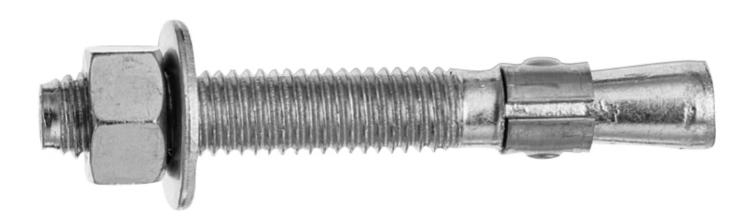


Mounting Hardware

When securing the 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 equivelant).

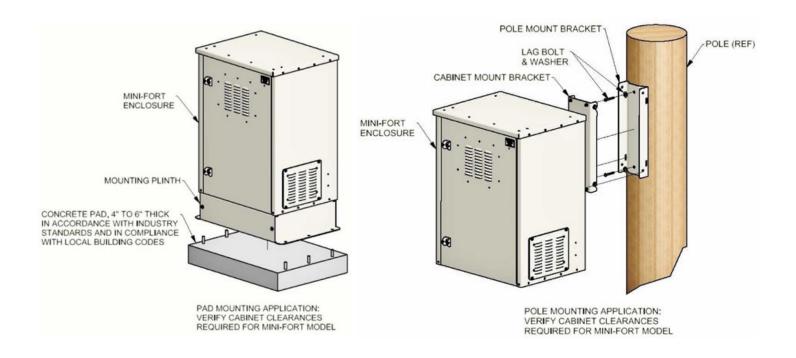


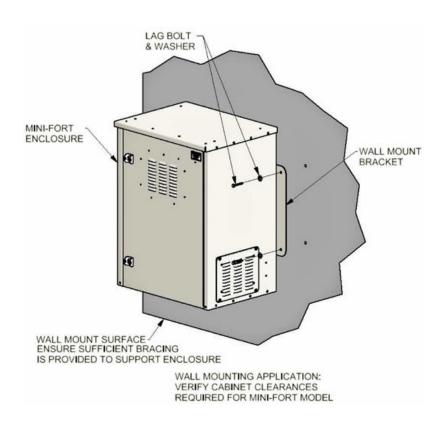
	Symbol	Units	Nominal Anchor Diameter (in)		
Anchor outer diameter	\mathbf{d}_0	in	.375		
Nominal carbide bit diameter	d _{bit}	in	3/8		
Effective embedment depth	h ef	in	1-3/4	2-5/8	
Min hole depth	h ₀	in	2-1/2	3-3/8	
Min slab thickness	h _{min}	in	4	5	
Installation torque	T inst	ft-lb	25		
Min hole diameter in fixture	d _h	in	7/16		





Mounting Provisions



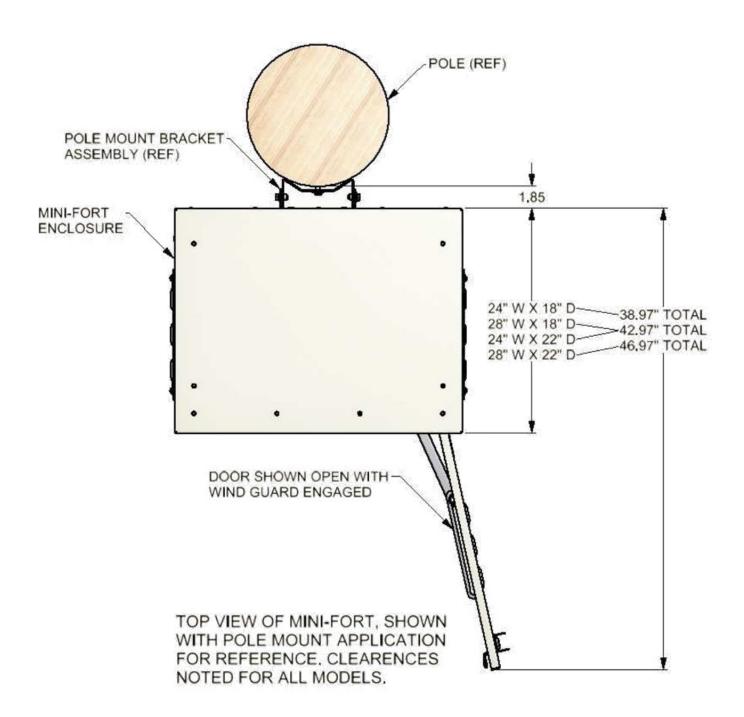




Clearance Requirements

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

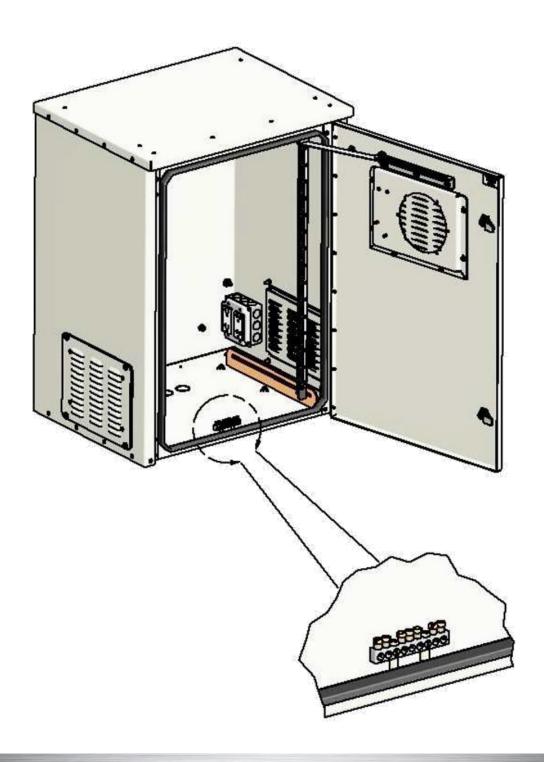
See Figure below for top view of cabinet footprint.





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.



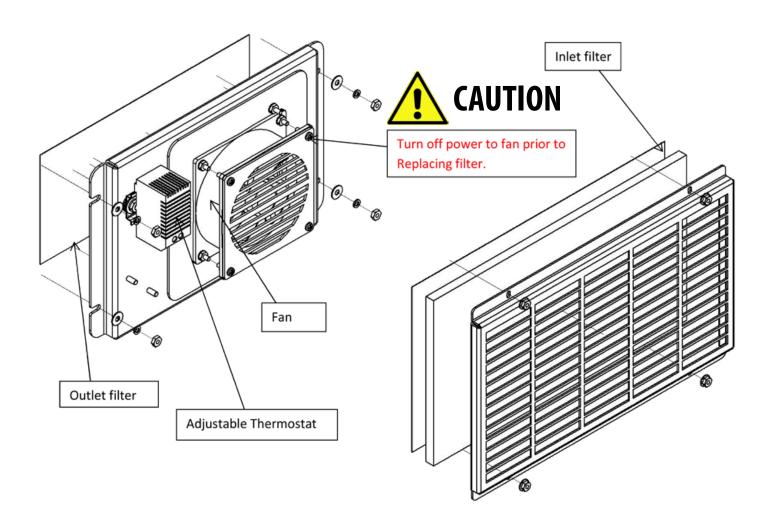


FAN VENTILATION SYSTEM (OPTIONAL)

The 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

