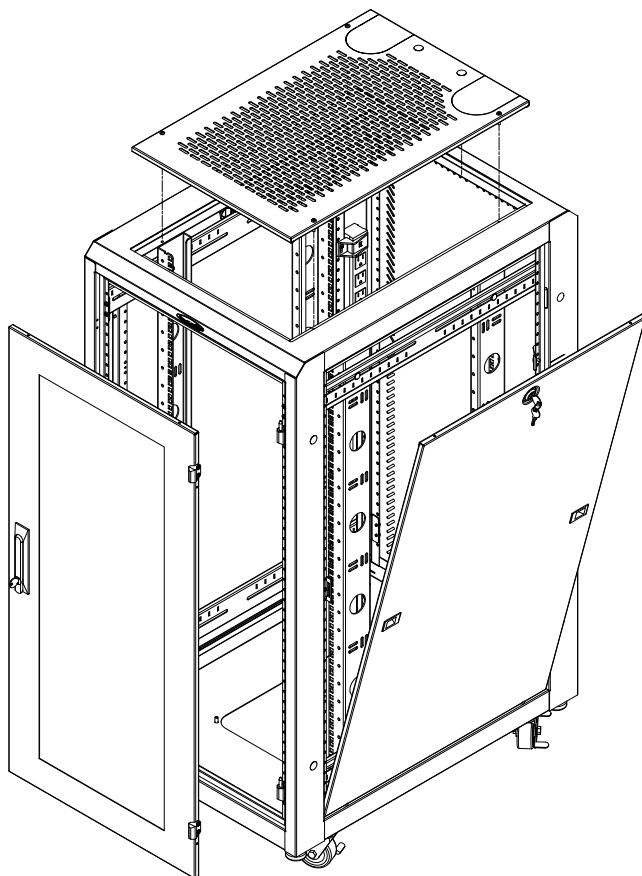


# GL300E, GL480E and GL600E E Series Installation Instructions



[WeRackYourWorld.com](http://WeRackYourWorld.com)

**1-866-TRY-GLCC (879-4522)**

Instructions for the following Great Lakes Enclosures:  
GL300E • GL480E • GL600E

## **PREFACE**

This manual is provided to prevent service personnel from committing an act that results in the risk of fire, electric shock, or injury to persons. Only trained service personnel should receive, unpack, and assemble the E Series Enclosures. In addition, only trained service personnel should install equipment in enclosures.

### **SAFETY SYMBOLS USED IN THIS MANUAL**

This manual provides general safety guidelines to be observed during installation, operation, and maintenance of the E Series Enclosure.



**WARNING:** Failure to follow directions in the warning could result in injury to persons or loss of life.



**CAUTION:** Failure to follow directions in the caution could result in damage to equipment or storage data.

### **SAFETY CONSIDERATIONS**



**WARNING:** Improper handling and use of the E Series Enclosure could result in equipment damage, serious injury, or possible death.

Only trained service personnel should be used to remove the enclosure from the pallet. Also, be sure you have a sufficient number of service personnel. Do not attempt to move enclosures by yourself.

Only UL® Listed ITE (Information Technology Equipment) units should be installed inside the E Series Enclosure.

Be sure to read and follow all individual manufacturer equipment manuals for safety and installation instructions.

Proper spacing is required when installing electrical equipment to avoid electrical shock. Maintain minimum spacing between the accessories and components and the computer enclosure assembly for safe operation of the equipment when installed in accordance with the National Electric Code ANSI/NFPA 70-1999.

The ambient temperature operating range for the E Series Enclosure and accessories is +50 to +95° F (+10 to +35° C).

The non-operating temperature is -4 to +140° F (-20 to +60° C).

# SERVICE

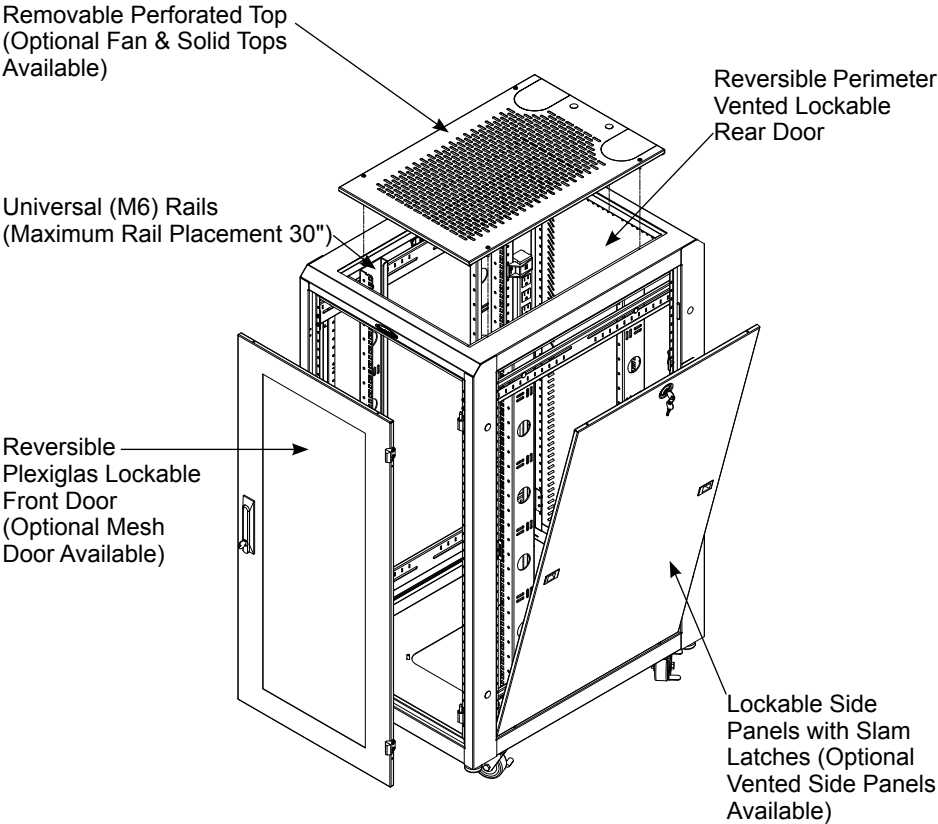
The E Series Enclosures should be repaired by personnel trained by Great Lakes, or returned to Great Lakes for repair or replacement. Contact Great Lakes Technical Support at 814.734.7303 or at [werackyourworld.com](http://werackyourworld.com)

# WHAT'S INCLUDED

- E unit (assembled)
- Keys as needed (depending on configuration)
- (30) M6 cage nuts (3/8" square) and M6 screws
- This user's manual

**This user's manual applies to the following Great Lakes enclosures:**

Part No.	H	W	D	RMU	Weight Cap.
GL300E-2432	30	24	32	13	300 lbs.
GL480E-2432	48	24	32	24	600 lbs.
GL600E-2432	60	24	32	31	600 lbs.



# INSTALLATION

## Receiving, Unpacking, and Removing the E Series Enclosure from the Pallet

Inspect and report any damage before receiving. Unpack the enclosure by carefully removing the corrugated carton and corners. Avoid damaging the enclosure when removing packaging.



**WARNING:** Only trained service personnel should be used to remove the enclosure from the pallet. Also, be sure you have a sufficient number of service personnel. Do not attempt to move enclosures by yourself.



**WARNING:** Be careful when moving enclosures before installation. Sudden stops and starts, excessive force, obstructed routes, and uneven floor surfaces may cause the enclosure to topple over.

## Loading Equipment



**WARNING:** Only install equipment after the E Series Enclosure has been properly secured. Do not move the E Series Enclosure assembly while loaded.

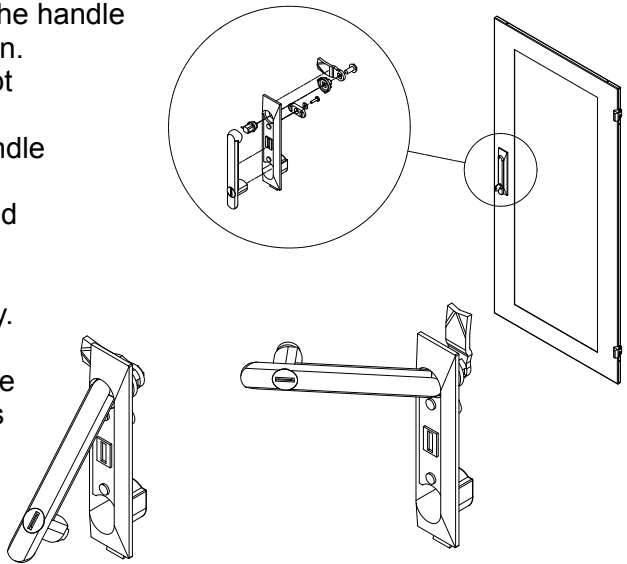
Once in place at the desired/intended location, deploy the leveling feet for maximum stability.

Rated or maximum load capacity for the GL300E is 300 lbs. and the GL480E and GL600E is 600 lbs.

To maintain a uniform distribution of the mechanical load in the E Series Enclosure, load the heaviest equipment first, at the bottom of the E Series Enclosure and load the lighter units at the top.

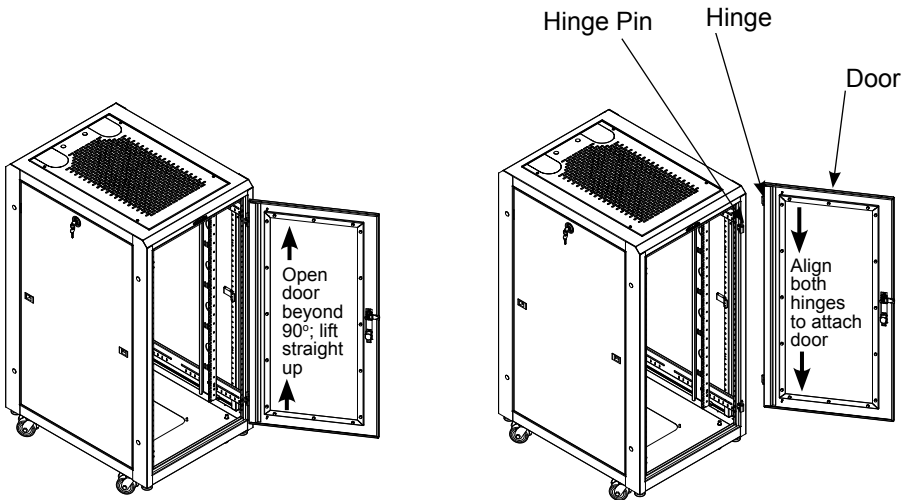
# OPERATING DOOR HANDLE

The door swing handles have been installed and no additional assembly is required. To operate the swing handle, lift up at the bottom of the handle to open. Swing the handle to the left or right to open. The handle must be kept in this position to close the door. Return the handle to the initial position and use the key provided to lock the handle. The lock on the side panels will accept the same key. The swing handles and doors are reversible. The exploded view shows its construction.



# DOOR REMOVAL AND ATTACHMENT

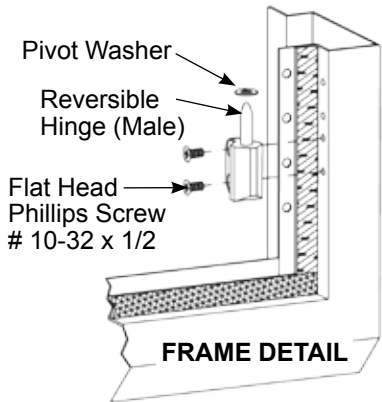
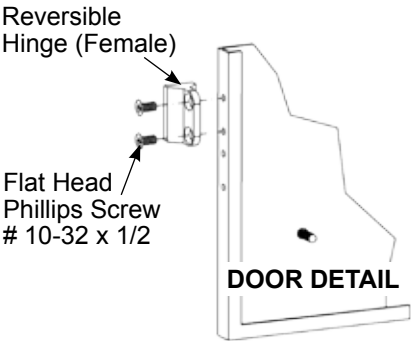
Open the door beyond 90°, grasp the door with both hands and carefully lift upward. When the door is free of both hinge pins, pull the door away from the enclosure. To attach the door, align both hinges of the door to their respective hinge pins on the enclosure and slowly slide the door down until seated.



# FIELD REVERSIBLE FRONT & REAR DOORS

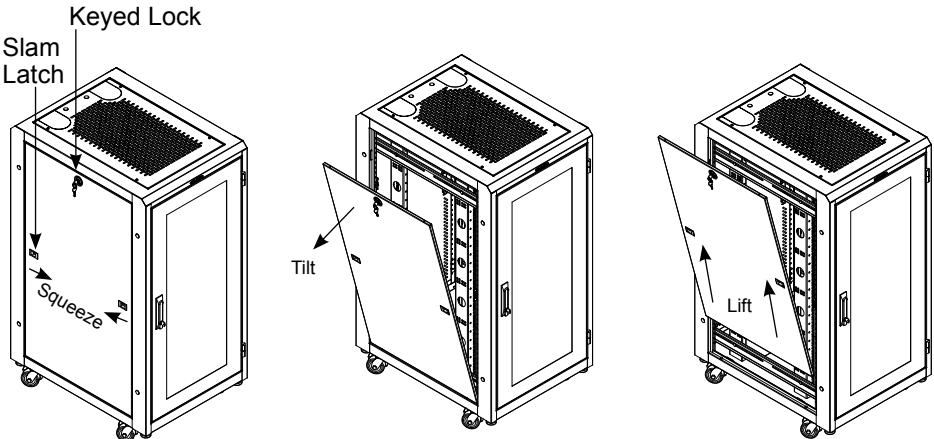
The front and rear doors are installed right hand hinge as standard from the manufacturer. Removing the hinges allows you to reverse the door by flipping them over and reinstalling the hinges using the universal mounting holes. Begin both screws, then tighten while maintaining perfect vertical alignment. See detail below. All enclosure frames and doors have provisions to be hinged right or left hand. The handle can be reversed along with the hinging. See Operating Handle.

## HINGE MOUNTING



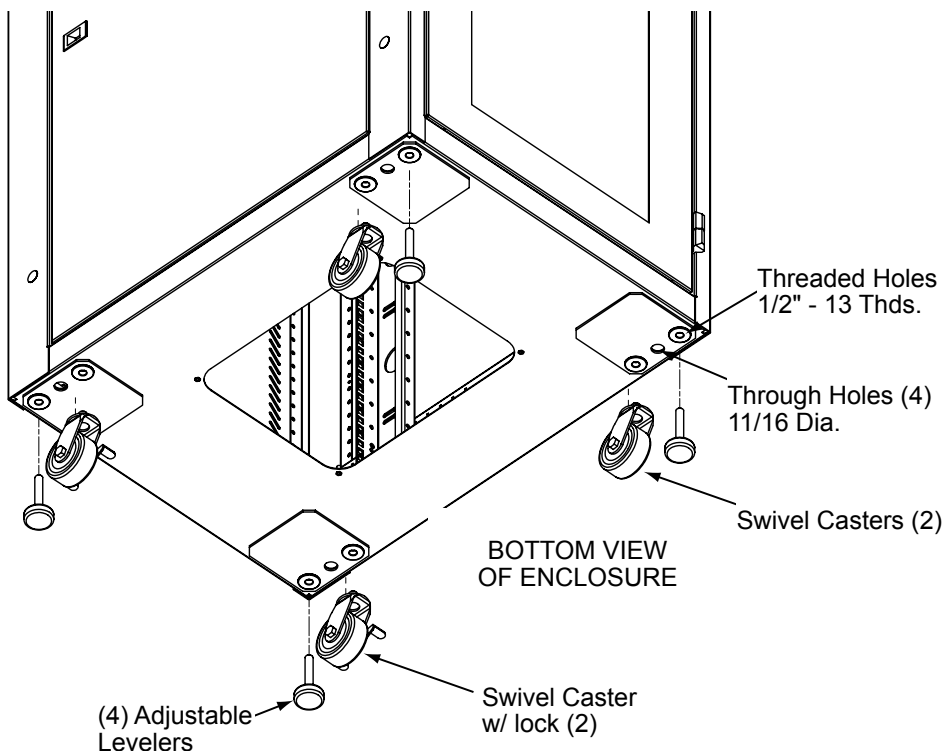
## SIDE PANEL REMOVAL

The side panels are secured to the enclosure frame with two quick release latches and a keyed lock. Be sure to unlock the side panel. To remove the side panel, squeeze the quick release latches towards each other. Then tilt the top of the side panel out slightly and lift the side panel up a couple of inches until it is free. To install the side panel, reverse the process. Make sure the slots on the side panel engage with the two tabs at the bottom of the frame.



## CASTER MOUNTING - E SERIES

On the bottom of the cabinet there are eight threaded holes, two in each corner. The holes are threaded 1/2"-13 thds. and will accept the levelers provided. Once the levelers are installed, the cabinet level can be adjusted with the use of a 3/4" open-end wrench. If ordered with casters, two will have brakes that can be actuated by turning the brake lever on the side of the wheel. The four inside holes in each corner are meant to accept the casters. *Be sure to thread the caster all the way into the bottom of the cabinet until it is firmly seated.*



Counter clockwise rotation will adjust the leveling glide up



Clockwise rotation will adjust the leveling glide down

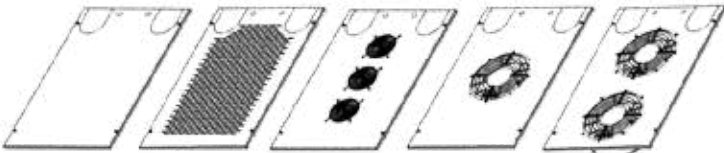
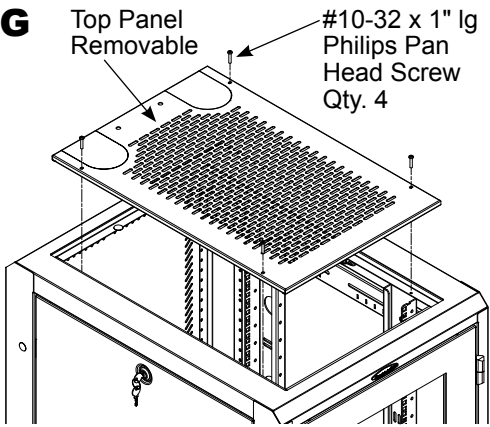
*Note: If you want to use casters AND leveling glides you will need 4" levelers.*

## ANCHOR MOUNTING THRU HOLE

The middle .687 dia. thru holes are for securing the enclosure to the floor. These holes will accept a standard concrete anchor if desired.

# TOP PANEL MOUNTING

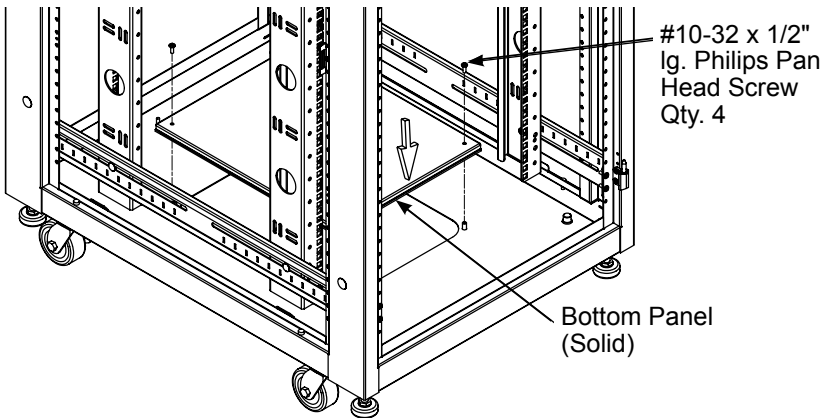
The top panel of the enclosure is installed at the manufacturer. Removing the top panel can be done by removing the four #10-32 x 1" lg. Phillips Pan Head Screws. Then simply lift the top panel out. There are five versions of top panels (perforated is shown). All top panels have two cable access horseshoe knockouts at one end.



TPE-24S	TPE-24P	TPE-24F	TPE-24F10	TPE-242F10
Solid	Perforated	Three 75 CFM Fans	One 10" CFM Fan	Two 10" 550 CFM Fan

# BOTTOM PANELS

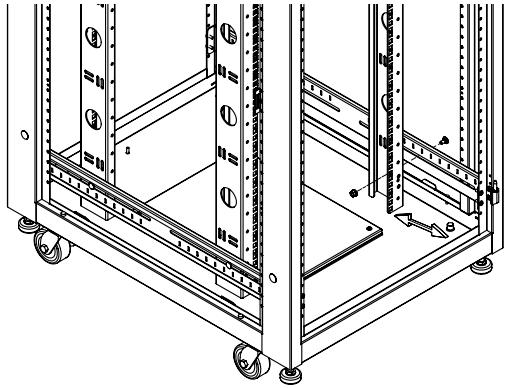
There are several styles of bottom panels available, solid is shown. Styles must be ordered separately. All styles mount to all enclosures. The bottom panels have a foam gasket to ensure a positive seal. The panels mount to four internally threaded studs in the bottom of the enclosure with four #10-32 x 1/2" lg. Phillips Pan Head Screws. See detail.





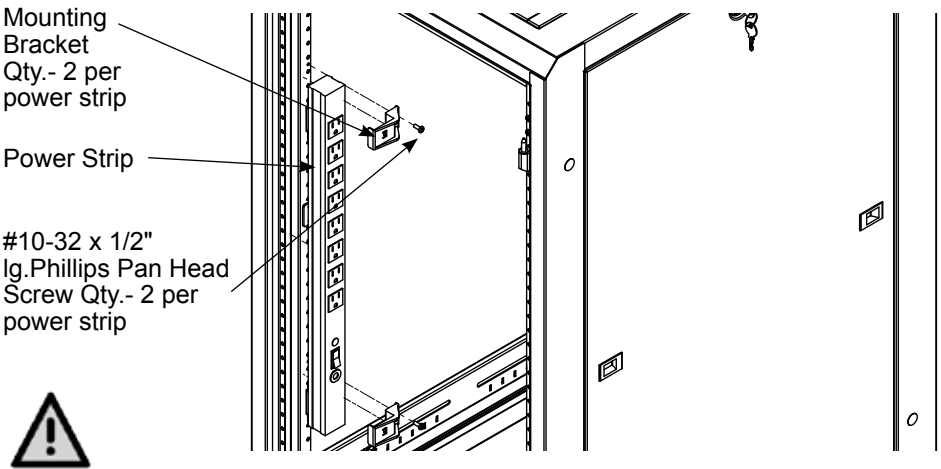
## MOUNTING RAILS

The vertical mounting rails (2 pair - 12 Ga. steel) come installed with all standard Great Lakes Case & Cabinet enclosures at 19" EIA spacing; universal mounting (3/8" sq. hole); 310-D compliant. The rails can be adjusted front to rear by loosening the 1/4"-20 hex nut and sliding to desired location then retighten the hex nut (7/16" wrench or socket).



## VERTICAL POWER STRIP MOUNTING

For your convenience, we have provided mounting brackets in the left rear and right rear corners of the GL480E and GL600E enclosures for mounting the 7218-24 power strips vertically. Typically any power strip shipped with an enclosure will be installed at the manufacturer. To install a power strip in the field, remove the top power strip bracket by loosening the #10-32 x 1/2" lg. screw that secures the bracket to the frame. Slide the power strip into the lower power strip bracket. Re-attach the top power strip bracket to secure the power strip.  
*Note: GL300E Enclosure comes with 7219 powerstrip for 19" mounting.*



## POWER

When using power distribution units (PDUs), each PDU should be connected to a committed branch circuit that is rated for the continuous load of all the equipment connected. When not using a PDU, each piece of equipment should be connected to a dedicated branch circuit.

## **ACCESSORIES**

### **Part No. Description**

#### **Doors & Side Panels for GL300E-2432**

3002E-24	Plexiglas door
3004E-24	Perimeter vented steel door
3003E-24	Solid door
3002E-M24	Mesh door
3010-32ELS	Pair of solid lift-off side panels
3011-32ELL	Pair of vented lift-off side panels

#### **Doors & Side Panels for GL480E-2432**

4802E-24	Plexiglas door
4804E-24	Perimeter vented steel door
4803E-24	Solid door
4802E-M24	Mesh door
4810-32ELS	Pair of solid lift-off side panels
4811-32ELL	Pair of vented lift-off side panels

#### **Doors & Side Panels for GL600E-2432**

6002E-24	Plexiglas door
6004E-24	Perimeter vented steel door
6003E-24	Solid door
6002E-M24	Mesh door
6010-32ELS	Pair of solid lift-off side panels
6011-32ELL	Pair of vented lift-off side panels

#### **Removable Top Panels**

TPE-24F	Top panel and fan assembly
TPE-24F10	Top panel & fan assembly w/550 CFM 10" fan
TPE-24S	Solid top panel with (2) 4" horseshoe knockouts
TPE-24P	Perforated top panel with (2) 4" horseshoe knockouts

#### **Stationary Shelves for 19" Mounting**

7206-FR-AHD	Front & rear mount, adjustable - 17.50"W x 22.25"D
7206-FR-ADHD	Front & rear mount, adjustable - 17.50"W x 27.25"D
7206-FR-A28HD	Front & rear mount, adjustable - 17.50"W x 28.00"D

#### **Sliding Shelf for 19" Mounting**

7206-FRSL-AHD	Front & rear mount sliding adjustable - 17.50"W x 22.00"D
7206-FRSL-ADHD	Front & rear mount sliding adjustable - 17.50"W x 26.00"D

#### **Cooling Equipment & Networking Hardware**

7217FT	Fan tray with three 75 CFM fans
7217FT-3	Front & rear mount, adjustable fan tray w/3, 75 CFM fans
7217FT-6	Front & rear mount, adjustable fan tray w/6, 75 CFM fans
7217FT-9	Front & rear mount, adjustable fan tray w/9, 75 CFM fans
G101	Networking hardware

Visit our web site at [www.werackyourworld.com](http://www.werackyourworld.com) for a complete list of available accessories.

NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS



**READY**



**SET**



**GO!**

**CONFIGURED ENCLOSURES:  
ANY WAY YOU WANT,  
SHIPPED WITHIN 24-48 HOURS!**

**READY** - CHOOSE A STANDARD ENCLOSURE  
PICK THE GREAT LAKES ACCESSORIES YOU NEED

**SET** - WE'LL CONFIGURE THE ENCLOSURE EXACTLY HOW  
YOU SPECIFY. EVERYTHING IS WRAPPED IN ONE ENCLOSURE

**GO** - CONFIGURED ENCLOSURE WILL SHIP  
WITHIN 24-48 HOURS OF RECEIPT OF ORDER

**GREAT LAKES**  
**CASE & CABINET**



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