



PRODUCT CATALOG 2012

GREAT LAKES 
CASE & CABINET

Invest in Solid Engineering







GREAT LAKES
CASE & CABINET



Invest in Solid Engineering

For more than 25 years, Great Lakes Case & Cabinet has supported the data, telecommunications, electrical, broadcast, sound and security industries with the highest quality racks, wall mount and free standing enclosures, technical furniture and console systems.

These products are delivered with world class customer service from our Eastern Distribution Center in Edinboro, Pennsylvania and our recently expanded Western Distribution Center in Reno, Nevada. Live customer service and technical support personnel are available to assist you Monday through Friday, from 8 AM to 8 PM (Eastern).

We'll install accessories, mounting rails and power strips, where you specify, prior to shipping, at no additional cost. Our freight managers will then ensure that your standard product order is complete and on its way within 24-48 hours from the time we receive it.

We ship truly custom engineered and manufactured products in just six weeks or as little as ten days from signatory approval of drawings (as part of our "Fast Track" Design and Production Service). Our state-of-the-art engineering and manufacturing capabilities allow us to design and build a myriad of variations on our standard products and endless possibilities for custom applications.

We've been providing data center solutions for successful companies since 1985. Whether your needs are as simple as a single wall mount, as technical as a state-of-the-art tier 4 data center or as complex as an international "roll-out" to thousands of branch locations, you will get the same quality, attention to detail and commitment to world class customer service, which are some of the things which make Great Lakes "Great".

To learn more, please visit us on the web at werackyourworld.com or call us at 1.866.TRY.GLCC (1.866.879.4522).



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

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NO WORRIES WITH GREAT LAKES

**Our "Pre-pay and Add" shipping policy
is designed to make your life easier.**

If you find damage after shipping, simply call us within 72 hours,
inform us of your claim and we will replace any and all damaged parts.

No new purchase order is necessary. We'll call you, issue an RMA,
coordinate a pick-up and you're done. Just "sit back and relax"

...we've got you covered!





At Great Lakes we know that no two data centers are the same. Our goal is to provide you with the data center solution you want and the best solution to meet your needs. Based on your cooling resources, power availability, and infrastructure, we'll work with you to develop the right solution. On the following pages, you'll find examples of some of the solutions and products that we've recently provided to customers, including:

- A Closed-Loop Water-Cooled Enclosure
- Localized Containment Options
- Hot Aisle Containment Options
- Cold Aisle Containment Options
- Enhanced Networking Enclosure
- Cable Management Accessories
- Cooling Accessories



DATA CENTER

S • O • L • U • T • I • O • N • S

DATA CENTER SOLUTIONS



The enclosure is a crucial data center component, beyond the protection and security of the equipment mounted within. The right enclosure can handle server loads of varying densities. The right enclosure can support ladder rack, saving thousands of dollars in installation and cable costs. The right enclosure can facilitate networking and cable management, while supporting a wide variety of power and cooling strategies, in either a "green" or "brownfield" design.

Whether you are working with "hot aisle/ cold aisle" configurations, ducted exhaust, slab floor or any variation of containment, the Great Lakes ES (Enhanced Server) enclosure is the right enclosure for your data center needs. The ES and its wide variety of accessories have been engineered to make it easy to mount, connect and network both data and electrical equipment from any manufacturer within and between the enclosures installed in a data center.

In quantities from one to thousands, Great Lakes has the expertise, experience, products, accessories, engineering support and manufacturing capabilities to meet your specific need.

Cold aisle containment is localized to the enclosure through data center wide deployment of the Great Lakes Air Manager. No Cold Aisle. No perforated tiles required.

"FUTURE-PROOFING"

Great Lakes has a wide variety of accessories to support your current, planned and future needs. We want to help you "Future-Proof" your data center.

Future-Proofing can help you increase the cooling capacity of your data center while increasing your CRAC efficiency.



- ES Enclosure Frame
- 1. Exhaust Chimney
- 2. Chimney Fan Tray
- 3. Ladder Rack Bracket
- 4. Top Panel w/Brush Grommet
- 5. Top Cable Trough
- 6. Closed Loop Water Cooled Fan Door
- 7. Rear Door Heat Exchanger*
- 8. Split Solid Door
- 9. Split Fan Door
- 10. Solid Door
- 11. Split Mesh Door
- 12. Mesh Contour Door with Fan Assembly
- 13. Raised Floor Grommet
- 14. Closed Loop Water Cooled Heat Exchanger
- 15. Air Manager
- 16. Air Manager Fan Tray
- 17. Brush Grommet Kit
- 18. Mesh Contour Door
- 19. Closed Loop Water Cooled Door

DATA CENTER SOLUTIONS



CLOSED-LOOP WATER-COOLED ENCLOSURE

The Great Lakes Closed-Loop Water-Cooling System, developed in conjunction with Naissus Thermal Management Solutions, addresses the primary challenge faced by data center managers today. As smaller, more powerful servers are compacted into higher density configurations, data center and air conditioning systems must expand to provide sufficient cooling air.

Even with costly floor space and air conditioning additions, data centers still struggle with uneven cooling and hot air recirculation resulting from heat exhaust traveling from other enclosures. The Great Lakes Closed-Loop Water-Cooled Enclosure (CLWCE) provides an integrated closed-loop cooling system, saves on floor space, power consumption and maintenance. It also seals servers from re-circulated exhaust, becoming a versatile high-density solution to today's data center challenges.

This enclosure is designed to provide maximum, state-of-the-art data center cooling.

Great Lakes offers a fully configured enclosure (CLWCE) or a kit to convert any 42" or deeper ES Series Enclosure from an air cooled unit to a water-based, closed-loop liquid-cooled enclosure.

GL840ES-3048CLWCE SPECIFICATIONS

DIMENSIONS

- 84"H x 30"W x 54"D
- Rack Spaces: 44 RMU, 82.25"
- Usable height: 36 RMU, 63"

STRUCTURAL

- Empty weight: 850 lbs
- Shipping weight: 900 lbs
- Static load: 2000 lbs
- Four, 44 RMU, EIA vertical mounting rails, numbered from 1 to 44 spaces

FRONT DOOR

- Non-reversible aluminum assembly combined with a full View-Thru™ Lexan® panel
- Electrical, spring-loaded automatic door releases

REAR DOOR

- Non-reversible, aluminum door assembly
- Electrical, spring-loaded automatic door releases
- Integral fan door/plenum duct

TOP PANEL

- Standard top with brush cable entries

SIDE PANEL

- 16 gauge cold-rolled steel
- Two lift handles per panel; Removable

COOLING COMPONENTS

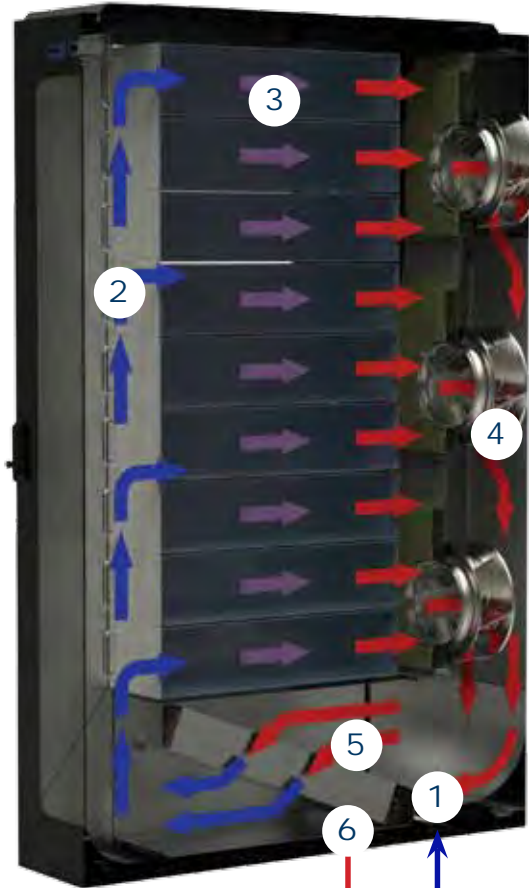
REAR-MOUNTED FAN TRAYS

- 3 Electronically Commutated (EC) Backward Curved Impellers/Fans
- Operating Point 0 % at 20 degrees C; 100% at 40 degrees C
- 230VAC (200 – 270) Nominal voltage, 2.9A current draw
- Individual fan thermal speed control sensors (one per fan)

HEAT EXCHANGER

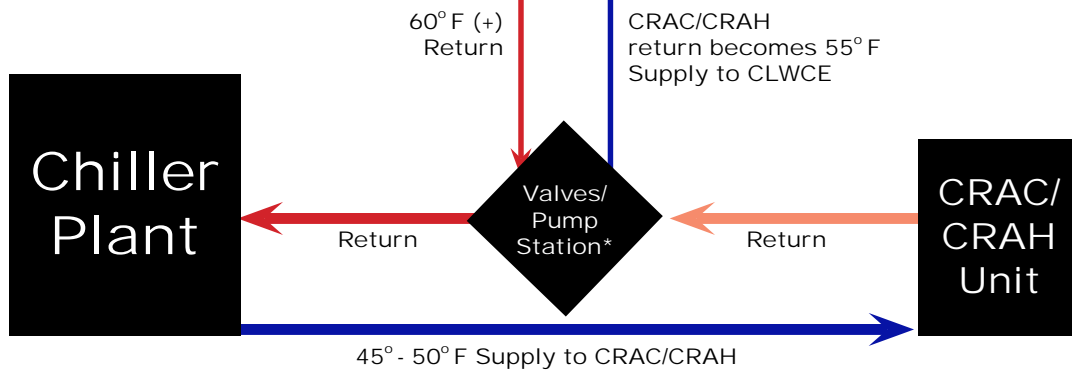
- 8-16 gpm heat-exchange cooling core supplied with ¾" high-pressure hose and optional ¾" flange NFP connections

CLOSED-LOOP WATER-COOLED ENCLOSURE



1. Chilled water at a consistent temperature and flow rate directly from a viable source or via a coolant distribution unit (CDU) enters the heat exchanger coil, cooling air as it passes over it.
2. Conditioned air at consistent pressure is directed through a plenum chamber.
3. Conditioned air passes through rack mounted equipment.
4. Quiet (65 dB) high efficiency variable speed exhaust fans remove hot air.
5. Hot air passes across the heat exchanger.
6. Water then leaves the heat exchanger coil to begin a return trip to the chiller.

The Closed-Loop Water-Cooled Enclosure improves PUE (power usage effectiveness) by cooling the equipment, not the room, thereby significantly reducing Data Center cooling costs. The CLWCE allows high concentration of servers and other active computing devices. In most cases, the CLWCE will require (in excess of 50%) less floor space than plenum cooling.



These photos show a customer installation in a 40 year old facility, with a 9" raised floor where 80 leased, 2 RMU servers in five enclosures were consolidated into a single Great Lakes Closed-Loop Water-Cooled Enclosure with 3 high density blades at 9.3kW each or 28kW total.

The enclosure has been in operation for more than 18 months, tapping into the 2" copper return line, branched from the main return line running from the CRAC at a temperature of 55 degrees. A pumping station was created to maintain adequate flow to the enclosure, created from "off-the-shelf" components, to deliver a sustained flow rate of 10 gallons per minute. After passing through the CLWCE's heat exchanger, the water flows out of the enclosure and continues its return path to the chiller.

*Every data center is different. A pump station may be necessary, based on system pressure, distances to be traveled and the number of CLWCEs to be supported.

DATA CENTER SOLUTIONS



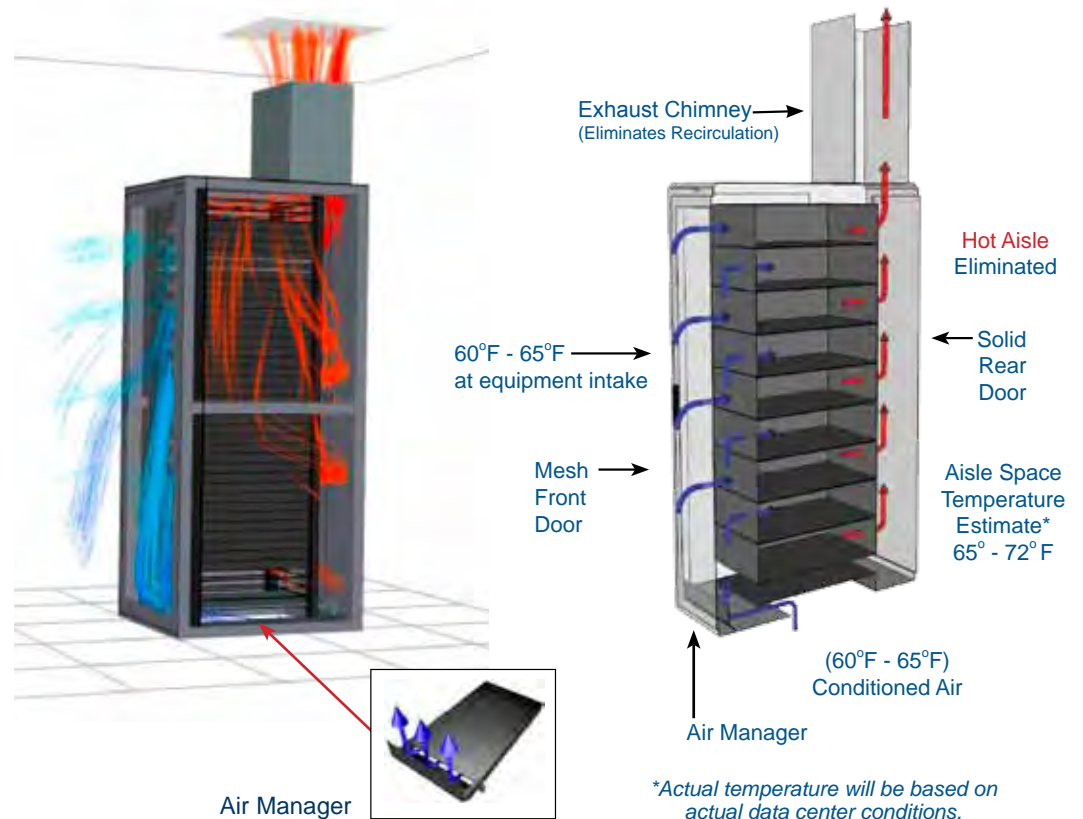
LOCALIZED CONTAINMENT

Together, the Adjustable Air Manager (AM-ES), the Exhaust Chimney (GL-EC) and the Brush Grommet Kit (BGRK) work to contain conditioned air and remove heated exhaust from the enclosure, while virtually eliminating bypass airflow and hot air recirculation. We call this solution "Localized Containment" (completely eliminating the "hot aisle" and reducing the need for perforated tiles in the "cold aisle").

The Adjustable Air Manager (AM-ES) mounts in the bottom of a Great Lakes ES enclosure (on a raised floor) to bring data center conditioned air inside the enclosure closer to the equipment to be cooled. A simple slide on the Air Manager allows you to control the flow of conditioned air coming into the bottom of the cabinet. This increases air flow, lowering temperatures in the front of the equipment while maintaining air pressure.

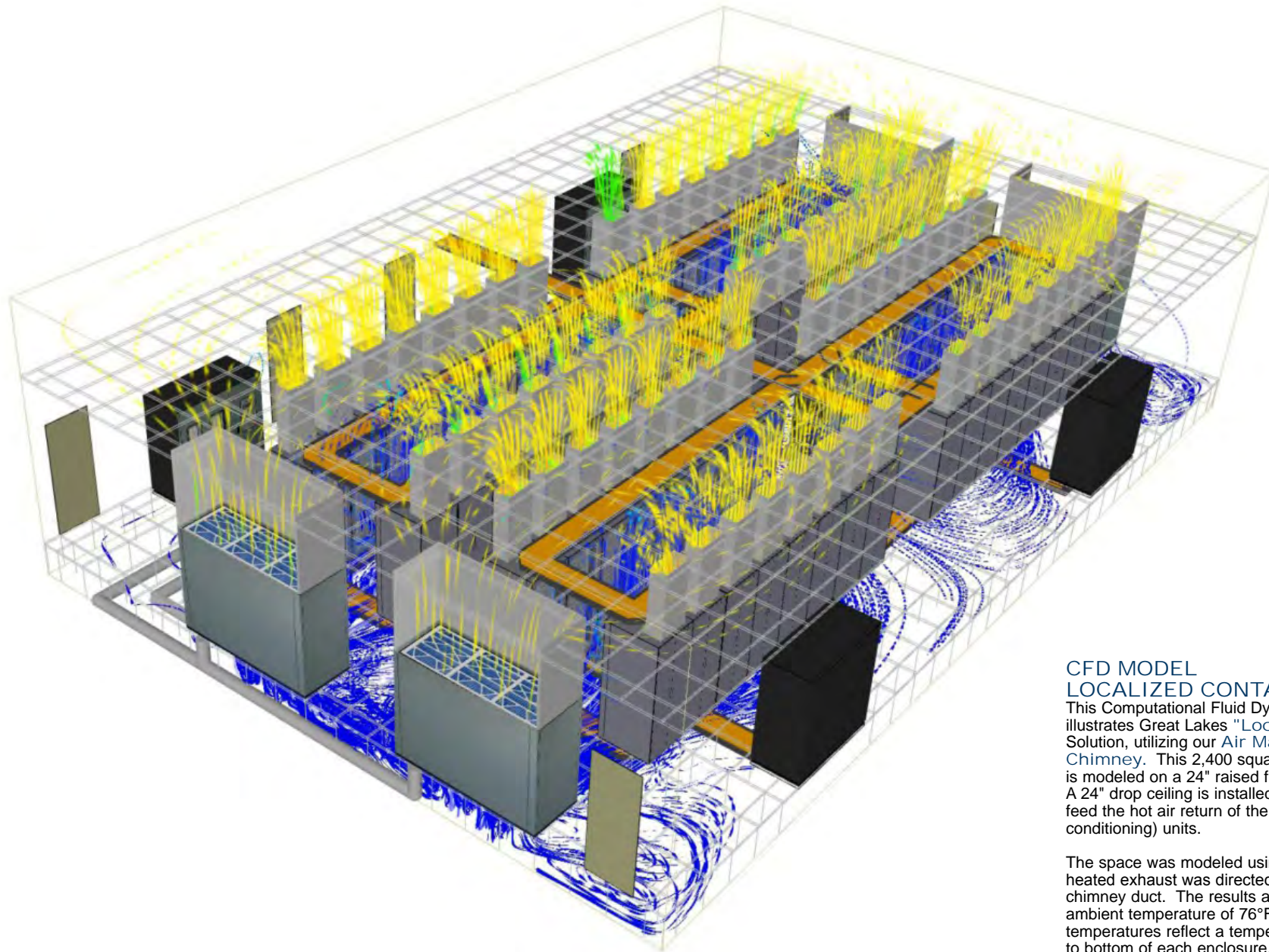
The Exhaust Chimney helps to remove heated exhaust far from the enclosure or, more efficiently, to collect heated exhaust into ducting or a ceiling plenum to return it to the CRAC unit.

The Brush Grommet Kit installs between the rail and the side panel to allow cable pass-through while at the same time eliminating bypass air flow and hot air recirculation.



This customer is utilizing Great Lakes' Air Manager and Exhaust Chimney as a "localized containment" solution in their data center. As a result, the only "vents" found in the raised floor tiles are those to provide personal comfort for those working in the data center space.

LOCALIZED CONTAINMENT



CFD MODEL LOCALIZED CONTAINMENT

This Computational Fluid Dynamics (CFD) model illustrates Great Lakes "Localized Containment" Solution, utilizing our Air Manager and Exhaust Chimney. This 2,400 square-foot data center space is modeled on a 24" raised floor with a 16.3' ceiling. A 24" drop ceiling is installed as an open plenum to feed the hot air return of the CRAC (computer room air conditioning) units.

The space was modeled using 75°F supply air and heated exhaust was directed into the drop ceiling via chimney duct. The results are a room with a consistent ambient temperature of 76°F. Equipment intake temperatures reflect a temperature of 75°F from top to bottom of each enclosure. Great Lakes Brush Grommet Kits were installed in each enclosure, which eliminated any risk of hot air recirculation.

DATA CENTER SOLUTIONS



COLD AISLE CONTAINMENT

Many times cooling challenges cannot be met simply by expanding infrastructure or adding additional CRAC units.

The strategy behind "containment" is to either capture as much conditioned air as possible or to isolate and remove as much heated exhaust air as possible within the data center space. In this concept, the goal is to create a contained pool of conditioned air in the cold aisle. Containment doors are then designed to isolate the cold aisle in this grouping of enclosures. The goal for this strategy is to saturate the area in front of the enclosures with this contained conditioned air and to focus it where it is most needed; in front of the equipment mounted within the enclosures.

Once the conditioned air passes through the equipment, the heated exhaust is then removed from the rear of the enclosures via [Exhaust Chimneys](#).



HOT AISLE CONTAINMENT

In this example, the customer chose to employ a data center solution designed to contain the hot aisle. Perforated tiles were installed in the cold aisle. The conditioned air then passed through mesh doors to cool the equipment mounted within the enclosures.

The customer chose not to use any rear doors, so heated exhaust was simply vented into the hot aisle which was contained by aisle doors. Vertical thermoplastic containment panels were attached to and installed above the enclosures to continue the containment process as the heated air naturally rose and was channeled to a drop-ceiling plenum which then directed the heated exhaust to the hot air return of the data center's CRAC units.

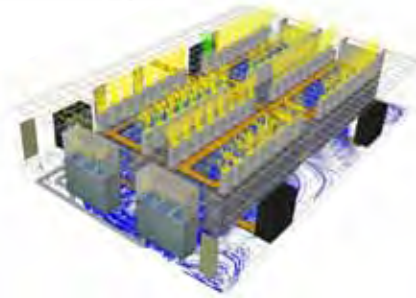
Every data center space is different and many data center managers have their own ideas as to what solution will work best for them. Great Lakes has the technology and flexibility to make any planned solution a data center reality. Our engineering team uses more than 25 years of experience to help you evaluate your data center infrastructure and ambient conditions to recommend a solution which will prove to be your best and most cost effective solution.

CONTAINMENT STRATEGIES

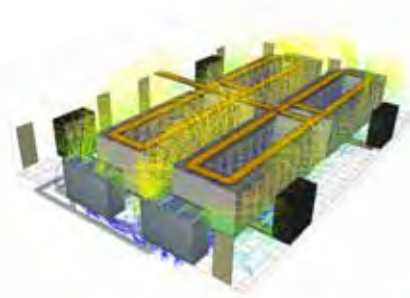
In addition to "end of aisle" containment doors which attach easily to existing enclosures, there are a number of containment products which can be deployed in a variety of strategies, either across or above the aisle.

For those situations which require the installation of containment panels across the aisle or containment products mounted above the enclosures themselves, we have developed a strategic alliance with Polargy, Inc., for the installation of the company's line of PolarPlex™ containment systems*, which consist of structural aluminum framing and either vinyl curtains or thermoplastic panels, to create the desired environmental solution.

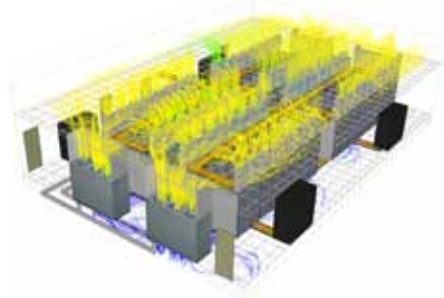
It is important to be familiar (and compliant) with the building and fire code standards in your municipality before closing off a grouping of enclosures, either for hot or cold aisle containment.



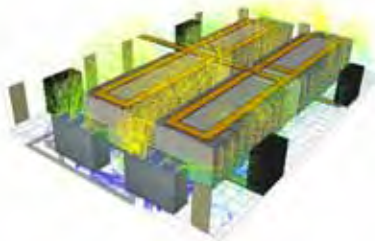
**Localized Containment
With Air Managers and Chimneys**



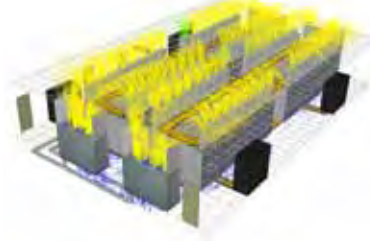
Standard Cold Aisle Containment



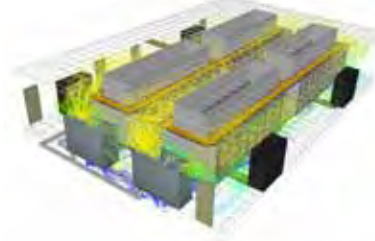
**Standard Cold Aisle Containment
with Chimney**



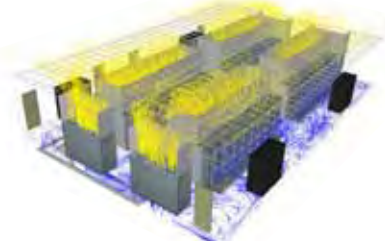
**Cold Aisle Containment with Horizontal
Polargy Panels**



**Cold Aisle Containment with Horizontal
Polargy Panels & Chimneys**



**Cold Aisle Containment with Vertical
Polargy Panels**



**Hot Aisle Containment with
Vertical Polargy Panels**

DATA CENTER SOLUTIONS



Great Lakes' Enhanced Networking (EN) Enclosures provide cable management and cooling support for networking and switch applications.

Large amounts of open area outside of the rails, repositionable sections of plastic cable fingers and strategically positioned knockouts can easily accommodate the needs of switches and patch panels. Additional cable and cooling accessories for the EN series can improve cable pathways and enhance equipment airflow. (See page 34)



Opengate Chimney Adapter



The Opengate Intelligent Chimney System is promoted to have the ability to extract up to a 30kW heat load from cabinets to a plenum return, automatically scaling to meet demand. The unit has fans and control modules which are "hot-swappable" for redundancy & ease of maintenance.

Great Lakes E and ES Series enclosures are compatible with the OpenGate System, through the use of a "collar adaptor" (OGE). Great Lakes manufactures two sizes of adaptors for the E series (24" & 29" wide) and four sizes for its ES Series of enclosures. (found on page 120)



Quick Connect Couplings



Coolcentric's rear door heat exchanger* uses liquid cooling technology.

The RD18WXS-07 includes a rear door heat exchanger and an adapter frame which is designed to fit the enclosure (GL840ES-3042), this product has no fans or moving parts. The rear door holds 1.5 gallons of cooled water in a closed loop system and is designed to offset up to a 20kW heat generated by a high density environment.

DATA CENTER ACCESSORIES



DIGITUS BIOMETRICS HANDLE SYSTEMS

Great Lakes is proud to offer the Digitus Biometrics line of networked biometric room and enclosure access solutions* to include the db Nexus room controller and the dbServer-Rack intelligent handle, which includes a fingerprint reader integrated into the cabinet handle and a lock controller placed inside the cabinet.

Found on page 104



EXTERNAL CABLE MANAGER

The Great Lakes External Cable Manager or "Side Car" (SC128442) is designed to serve as a 12" wide facilitator of your cabling needs, either between two 84"H ES Enclosures or at the end of a row as part of a "home run" networking solution.

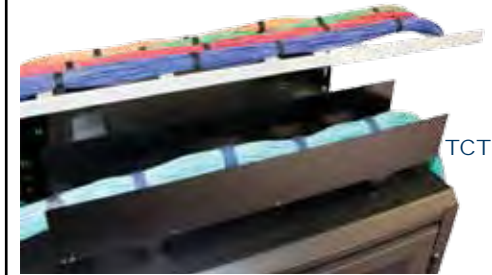
Found on page 129



LADDER RACK BRACKETS

The strength of the ES Enclosure frame is unmatched in the industry. Ladder Rack Brackets (LRB) allow ladder rack to be mounted to the top of the enclosure, eliminating the need and additional costs associated with ladder rack which must be suspended from the data center ceiling.

Found on page 126



TOP CABLE TROUGH

The Top Cable Trough (TCT) helps to facilitate the flow of cable in and out of the enclosure, without any infrastructure changes. The strength of the trough design, combined with the durability of the Great Lakes enclosure, can easily handle multiple bundles of cable.

Found on page 126



BRUSH GROMMET KIT

The Brush Grommet Kit (BGRK) fills the open area between the mounting rails and the side panels to prevent by-pass air flow, hot air recirculation and to keep conditioned air where it is needed most; in front of rack mounted equipment within the enclosure.

Found on page 122



EXHAUST CHIMNEY

Heated exhaust can be easily removed from the enclosure via an Exhaust Chimney (GL-EC) to channel the natural upward movement of hot air. Custom versions are available to meet specific height or infrastructure requirements.

Found on page 120



CHIMNEY FAN TRAY

Optional Chimney Fan Trays (GL-ECFT) further accelerate the removal of exhaust from the enclosure.

Found on page 120



RACSENSE® VARIABLE SPEED FAN CONTROLLER

The RacSense Fan Controller* (FT102) takes real-time temperature measurements and automatically adjusts fan speed to protect equipment mounted within the enclosure.

Found on page 119

We can do eggplant!



No matter what your company sells or what color
your new age data center needs, we can help!
Visit our website for more details!

WeRackYourWorld.com





From construction to accessories offered, Great Lake's series of enclosures offer flexibility to nearly any user in any environment.

- The **ES Series** is ideal for data centers that require cooling, power, and cable management solutions.
- The **EN** is a specific platform for switch and large cable applications.
- The **E Series** protects and stores telecommunications, computer, and other electronic equipment.
- The **EZ Seismic** is designed to withstand seismic activity while still accepting a number of accessories.
- The **NEMA 12** protects equipment in industrial/high dust areas.
- The **Co-Lo Series** (available in 2 or 3 compartment) provides one unit for multiple applications/customers.



ENCLOSURES

ES • EN • E • EZ • NEMA • COLO



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6

8

4

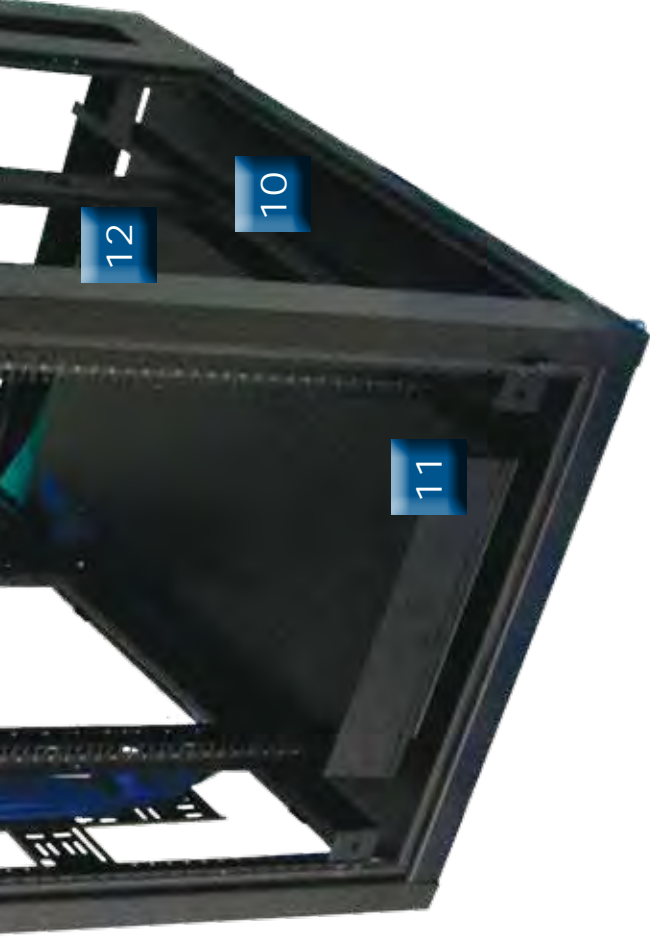
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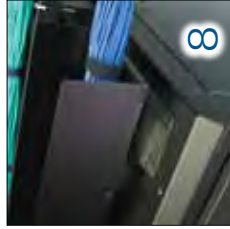
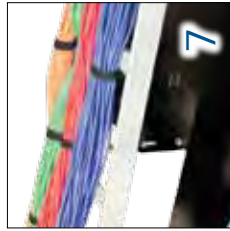
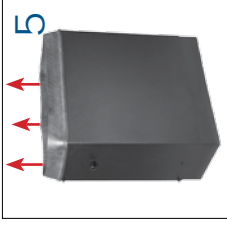
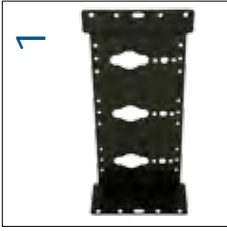
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2

1



ES ENCLOSURE FEATURES & ACCESSORIES



ES Server Enclosures are designed with integrated features to accommodate servers and the conditions associated with them: high density cable management, power options, and cooling capabilities. When the situation to manage these conditions becomes more challenging, additional accessories can be added to the enclosure. Enclosure rails are folded three times (to produce a channel effect), creating a more rigid rail which in turn will support any equipment and accessories necessary.

The featured enclosure, GL840ES-3042, demonstrates these standard and optional features.

1. Power strip mounting brackets allow the mounting of all major brands of PDUs, as well as Great Lakes' Vertical Cable Troughs
2. Vertical cable troughs can be installed in each rear corner to handle large cable bundles (up to three, when no PDU is mounted)
3. Contour mesh doors allow more cool air into the enclosure, and exhaust to escape; fan kits mount to the door to aid in horizontal ventilation and the elimination of hot spots
4. Brush grommet top panels create easier overhead cable access while keeping air flow disruption to a minimum
5. Exhaust chimneys serve as a duct that assists in the removal of hot air from the enclosure. The process of removing exhaust air can be accelerated through the use of a chimney fan tray.
6. Top cable troughs can be mounted over top cable access knockouts so that cables are supported along the bend radius
7. Ladder rack brackets eliminate the need to suspend ladder rack from the ceiling, thus reducing overhead cable infrastructure
8. Cable access knockouts found along the top of the enclosure (30"W only) allow overhead cabling (optional brush grommet seals gaps around cables to prevent air recirculation)
9. Vertical cable pass throughs on the corner post are designed for side networking cable access (optional brush grommet seals gaps around cables to prevent air recirculation)
10. Horizontals of the frame do not extend the entire length of the enclosure, leaving empty space in the rear of the enclosure; this large cavity creates space for tall PDUs and additional cable organizers
11. Air managers mount to the bottom RMU of the enclosure to "manage" the flow of conditioned air into the enclosure. An adjustable slide allows the amount of air to be adjusted as necessary, while maintaining raised floor pressure throughout a data center
12. Bottom cable access knockouts allow under floor cabling and are ideal to pass large PDU plugs through (optional brush grommet bottom panel seals gaps around cables)

ES GL840ES-3048 SERIES



DIMENSIONS: 84"H x 30"W x 48"D

Maximum rail placement: 35"; Usable inside depth: 46"
13" of dedicated cable management/PDU depth in rear

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:

525 lbs./90"H x 32"W x 52"D

**GL840ES-3048MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401ES-3048	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with six holes each
7209-N	One Set of 4 Adjustable Levelers
TPES-S	Solid Top Panel
8402E-MC29	Front Contour Mesh Door with locking handle
8402E-MC29	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-3048MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-3048LC	Localized Containment Kit: Complete enclosure with Contour Mesh Front Door, Solid Rear Door, Air Manager, Air Manager Fan Tray (600 CFM), Exhaust Chimney with an 18" to 32" adjustable range, Chimney Fan Tray (1200 CFM), and Brush Grommet Kit
GL840ES-3048LCHF	Localized Containment Kit: Same as above except with 940 CFM Air Manager Fan Tray and 2260 CFM Chimney Fan Tray

Shown with optional accessories,
drawings can be found on page 136



GL840ES-3048 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-29SM	Split Mesh Steel Door Set
8403E-SF29	Split Fan Door Set
8403E-29	Solid Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-48-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-48-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT48	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES30	Air Manager Fan Tray, 600 CFM
BGRK30	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation
ESSAB11	Side Air Baffle Kit for use with 11 RMU CISCO® and other side-to-side airflow equipment; please see chart on page 37 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-84-48	Brush Grommet for 84"H x 48"D enclosure; to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through knockouts
CMP	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
HCM-D36	Horizontal Cable Organizer; to mount from the front to the rear of the enclosure
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT30	Top Cable Trough and hardware
VCT-84	Vertical Cable Trough
VCT-84C	Cover for VCT-84
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.50"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL840ES-2448 SERIES



DIMENSIONS:

84"H x 24"W x 48"D

Maximum rail placement: 35"; Usable inside depth: 46"
13" of dedicated cable management/PDU depth in rear

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:

475 lbs./90"H x 32"W x 52"D

**GL840ES-2448MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401ES-2448	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with six holes each
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC24	Front Contour Mesh Door with locking handle
8402E-MC24	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-2448MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-2448MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door
GL840ES-2448LC	Localized Containment Kit: Complete enclosure with Contour Mesh Front Door, Solid Rear Door, Air Manager, Air Manager Fan Tray (600 CFM), Exhaust Chimney with an 18" to 32" adjustable range, Chimney Fan Tray (1200 CFM), and Brush Grommet Kit
GL840ES-2448LCHF	Localized Containment Kit: Same as above except with 940 CFM Air Manager Fan Tray and 2260 CFM Chimney Fan Tray

Shown with optional accessories,
drawings can be found on page 136



GL840ES-2448 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-24SM	Split Mesh Steel Door Set
8403E-SF24	Split Fan Door Set
8403E-24	Solid Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-48-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-48-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT48	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES24	Air Manager Fan Tray, 600 CFM
BGRK24	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-84-48	Brush Grommet for 84"H x 48"D enclosure; to cover rear vertical cable pass through
CMP	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT24	Top Cable Trough and hardware
VCT-84	Vertical Cable Trough
VCT-84C	Cover for VCT-84
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL840ES-3042 SERIES



DIMENSIONS:

84"H x 30"W x 42"D

Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:

475 lbs./90"H x 32"W x 45"D

GL840ES-3042MS COMPLETE ENCLOSURE INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
8401ES-3042	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with three holes each
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC29	Front Contour Mesh Door with locking handle
8402E-MC29	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-3042MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-3042LC	Localized Containment Kit: Complete enclosure with Contour Mesh Front Door, Solid Rear Door, Air Manager, Air Manager Fan Tray (600 CFM), Exhaust Chimney with an 18" to 32" adjustable range, Chimney Fan Tray (1200 CFM), and Brush Grommet Kit



Shown with optional accessories,
drawings can be found on page 136

GL840ES-3042 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-29SM	Split Mesh Steel Door Set
8403E-SF29	Split Fan Door Set
8403E-29	Solid Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-42-1832	Exhaust Chimney for 42"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 42"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES30	Air Manager Fan Tray, 600 CFM
BGRK30	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation
ESSAB11	Side Air Baffle Kit for use with 11 RMU CISCO® and other side-to-side airflow equipment; please see chart on page 37 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-84	Brush Grommet for 84"H x 42"D enclosure; to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through
CMF	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
HCM-D36	Horizontal Cable Organizer; to mount from the front to the rear of the enclosure
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT30	Top Cable Trough and hardware
VCT-84	Vertical Cable Trough
VCT-84C	Cover for VCT-84
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
ES23K-42	Conversion Kit to convert from 19" to 23" mounting
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL840ES-2442 SERIES



DIMENSIONS: 84"H x 24"W x 42"D

Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:

425 lbs./90"H x 32"W x 45"D

**GL840ES-2442MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401ES-2442	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with three holes each
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC24	Front Contour Mesh Door with locking handle
8402E-MC24	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-2442MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-2442MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door
GL840ES-2442LC	Localized Containment Kit: Complete enclosure with Contour Mesh Front Door, Solid Rear Door, Air Manager, Air Manager Fan Tray (600 CFM), Exhaust Chimney with an 18" to 32" adjustable range, Chimney Fan Tray (1200 CFM), and Brush Grommet Kit

Shown with optional accessories,
drawings can be found on page 136



GL840ES-2442 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-24SM	Split Mesh Steel Door Set
8403E-SF24	Split Fan Door Set
8403E-24	Solid Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, page 66-68

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-42-1832	Exhaust Chimney for 42"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 42"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES24	Air Manager Fan Tray, 600 CFM
BGRK24	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-84	Brush Grommet for 84"H x 42"D enclosure; to cover rear vertical cable pass through
CMP	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT24	Top Cable Trough and hardware
VCT-84	Vertical Cable Trough
VCT-84C	Cover for VCT-84
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL780ES-3042 SERIES



DIMENSIONS: 78"H x 30"W x 42"D

Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

RACK SPACES: 42 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:

375 lbs./84"H x 32"W x 45"D

**GL780ES-3042MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7801ES-3042	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with three holes each
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC29	Front Contour Mesh Door with locking handle
7802E-MC29	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL780ES-3042MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL780ES-3042MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Shown with optional accessories,
drawings can be found on page 136



GL780ES-3042 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7802E-29SM	Split Mesh Steel Door Set
7803E-SF29	Split Fan Door Set
7803E-29	Solid Steel Door
7811-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-42-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES30	Air Manager Fan Tray, 600 CFM
BGRK30	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation
ESSAB11	Side Air Baffle Kit for use with 11 RMU CISCO® and other side-to-side airflow equipment; please see chart on page 37 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-78	Brush Grommet for 78"H x 42"D enclosure; to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through
CMP	Cable Management Post, 3"
HCM-D36	Horizontal Cable Organizer; to mount from the front to the rear of the enclosure
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT30	Top Cable Trough and hardware
VCT-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
ES23K-42	Conversion Kit to convert from 19" to 23" mounting
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL780ES-2442 SERIES



DIMENSIONS: 78"H x 24"W x 42"D
Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

RACK SPACES: 42 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black or Advantage White

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor; 1800 lbs. on casters

SHIPPING WEIGHT AND PALLET SIZE:
375 lbs./84"H x 32"W x 45"D

**GL780ES-2442MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7801ES-2442	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with three holes each
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC24	Front Contour Mesh Door with locking handle
7802E-MC24	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL780ES-2442MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL780ES-2442MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Shown with optional accessories,
drawings can be found on page 136



GL780ES-2442 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7802E-24SM	Split Mesh Steel Door Set
7803E-SF24	Split Fan Door Set
7803E-24	Solid Steel Door
7811-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on 24"W contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU
GL-EC-42-1832	Exhaust Chimney for 42"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 42"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES24	Air Manager Fan Tray, 600 CFM
BGRK24	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

BGS-78	Brush Grommet for 78"H x 42"D enclosure; to cover rear vertical cable pass through
CMP	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT24	Top Cable Trough and hardware
VCT-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf

Additional Shelves, pages 110-111

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking (creates 1800 lb. weight capacity)

ES GL480ES-2442 SERIES



DIMENSIONS: 48"H x 24"W x 42"D
Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

RACK SPACES: 24 RMU • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY:

2000 lbs. on levelers, bolted to floor or on casters

SHIPPING WEIGHT AND PALLET SIZE:
300 lbs./54"H x 32"W x 45"D

GL480ES-2442MS

COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.
4801ES-2442

DESCRIPTION

Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU mounting brackets with three holes each

7209-N

One Set of 4 Adjustable Levelers (2.5"H)

TPES-S

Solid Top Panel

4802E-MC24

Front Contour Mesh Door
with locking handle

4802E-MC24

Rear Contour Mesh Door
with locking handle

4810-36ELS

Pair of Solid Lift-off Side Panels
with lock and finger release latches



Drawings can be found on page 136

GL480ES-2442 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

4803E-SF24	Split Fan Door Set
4804E-24	Perimeter Vented Steel Door
4803E-24	Solid Steel Door
4804E-24	Perimeter Vented Steel Door
4811-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

COOLING EQUIPMENT

3.50-FPTL19	Tool-less Filler Panel for M6 rails, 2 RMU
GLHL1031CP	Pack of 10 Universal plastic Filler Panels, 1 RMU
7217FT-3	Fan Tray (front/rear mount adjustable) with fan guards and three 75 CFM fans, 2 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on 24"W contour mesh door
7217ECS	Rack mount, 220 CFM enclosure blower, 2 RMU

Additional Cooling Equipment, pages 117-122

POWER STRIPS AND GROUNDING

7219	6 position, 15 amp Power Strip with circuit breaker and 15' cord for 19" mounting
7219-SR14	14 position, (6 front/8 back) Power Strip with circuit breaker and surge suppressor for 19" mounting
CBB-48	Copper Bus Bar 45.75" (isolated)

Additional Power Strips, pages 114-116

CABLE MANAGEMENT

CMP	Cable Management Post, 3"
VLB-4836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 123-130

SHELVES FOR 19" MOUNTING

7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity

Additional Shelves, pages 84-87

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

4805-E2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
AT1	One set of 2 anti-tip legs, to be used with casters and levelers
G101ES	Networking/Ganging Kit
7208-ES	One set of 4 casters, all non-locking



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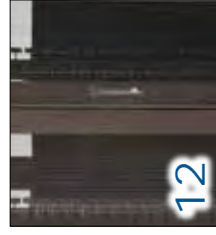
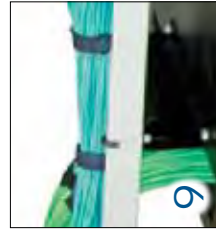
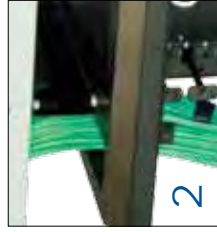
**GREAT LAKES
CASE & CABINET**
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11

12

ENHANCED NETWORKING (EN) ENCLOSURE FEATURES & ACCESSORIES



The EN enclosure is 84" tall and is available in two sizes: the GL840ENT-3242 (shown above at 32"W x 42"D) and the GL840ENT-4048 (40"W x 48"D). The EN Enclosure is shipped fully assembled and is capable of handling simple to complex data, switch, and server requirements. EN Configurations include a complete enclosure (frame, side panels, and doors), frame and doors, and simply a frame.

Features listed describe both sizes of EN enclosures, except where noted.

1. Frames are designed with no corner posts so that large cable bundles are easily routed up and down the enclosure.
2. Large knockouts allow for top cable access. Optional brush grommet is available to seal knock-outs and still allow cable pass through. Brush Grommet Top Panels also available.
3. Cable Management Fingers, made up of 7 RMU sections, are pre-installed on all rails (sections are able to be moved). Finger openings align with RMUs for easy cable pathways. Additional 7 RMU finger sections are available.
4. Two sets of 45 RMU, tapped #12-24 rails (M6 configurations also available); Front rails are fixed and recessed 6.5" from front of enclosure (8" on GL840ENT-4048) to accommodate equipment airflow requirements. Rear rails are fully adjustable.
5. Optional Baffle Kits (25 RMU baffle kit comes standard with GL840ENT-4048) direct cool air in and exhaust air out of side-to-side airflow equipment. Kits from 11 to 25 RMU are available to accommodate popular size switches.
6. A large, open bottom area creates easy under-floor access of cable bundles and large PDUs. Optional Koldlok raised floor grommets seal floor tile cutouts while allowing cables to pass through.
7. One pair of PDU brackets on each rear rail is pre-installed. Brackets can easily be moved to mount different size PDUs.
8. The "Flexible Mounting Profile" along the frame and rails allow accessories (e.g. cable management rings and mounting brackets) to be mounted without interfering with mounted equipment. Several series of holes can be found on each rail.
9. Ladder Rack Brackets easily support ladder rack and heavy cable bundles. Brackets eliminate the need of overhead cable baskets and infrastructure changes. Top Cable Troughs are also available to facilitate overhead cabling.
10. Grounding studs on the bottom of the frame, side panels, rear door, and front door are standard; optional copper bus bars and grounding kits easily install to prevent equipment damage.
11. Enclosures gang together at the top of the frame. Because there are no corner posts, the area between two ganged enclosures accommodates large cable bundles. Please see next page.
12. Front mesh door (split mesh doors on GL840ENT-4048) can open left or right-handed. Split rear doors minimize necessary clearance behind the enclosure. Please see next page.

EN ENHANCED NETWORKING



EN CONFIGURATIONS

Both sizes of EN Enclosures are available in three configurations: as a complete enclosure, with doors only, and just a frame. Rails can be either tapped #12-24 or M6.



The GL840ENT-4048SSSS (pictured) includes #12-24 rails with cable management fingers on all rails, solid sides, solid top split mesh front and rear doors, and a 25 RMU baffle kit.

The GL840ENT-3242MSS includes solid sides, mesh front door, and a split mesh rear door.



The GL840ENT-4048SSSS-NS (pictured) includes #12-24 rails with cable management fingers on all rails, solid top, split mesh front and rear doors, and a 25 RMU baffle kit.

The GL840ENT-3242MSS-NS includes a mesh front door and a split mesh rear door.



The GL840ENT-4048-FK (pictured) is an enclosure frame (#12-24 rails with cable management fingers on all rails) with a 25 RMU baffle kit.

The GL840ENT-3242-FK is a frame with cable management fingers.

GANGED ENCLOSURES

EN Enclosures are designed so that the front doors open to the left or right. When two enclosures are ganged together, the doors can open in opposite directions, giving users access to a large space between the enclosures. This space can be considered a virtual "side car," where cable is easily accessible and able to be routed up, down, or to the next enclosure.



Baffle Kits

Baffle Kits create proper airflow for switches, and side-to-side airflow equipment, as suggested by manufactures such as CISCO. Cool air is channeled into the equipment along the right side and exhaust air is directed out along the left side of the equipment. Kits are tool-less and easily attach to rails outside of the EIA mounting profile. Kits (available for 25, 19, 14, and 11 RMU equipment) are unique to EN and ES enclosures, creating the perfect fit between switch and enclosure!

Enclosures for Baffle Kits: EN and ES Enclosures

EN enclosures are designed specifically to support high-density cable management needs of switch and network application. ES Enclosures are ideal for servers where cable management, cooling, and power are a necessity.

Choosing your Baffle Kit and Enclosure

Based on your switch/equipment, choose the appropriate EN or ES enclosure. Take into consideration your cable management, cooling, and power needs; each enclosure addresses these needs in different ways. Baffle Kit part numbers are determined by whether an EN or ES enclosure is selected.

The chart below shows which kits accomodate various CISCO switches. Other brands of side-to-side airflow equipment can also be mounted. To determine the correct enclosure and baffle kit, compare physical equipment dimensions to what is listed.

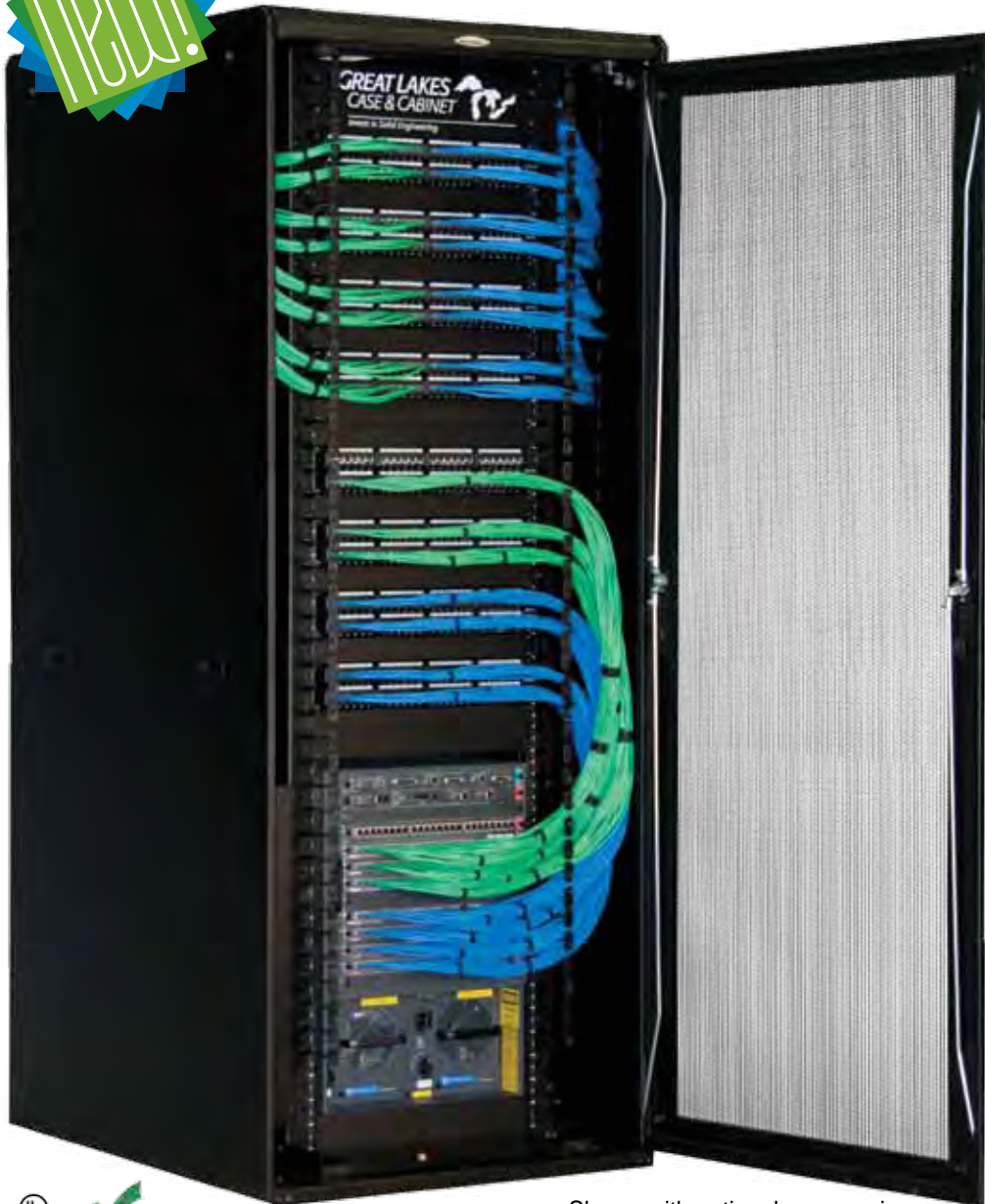
	Recommended Great Lakes Enclosure		Great Lakes Baffle Kit Part No.		Physical Equipment Dimensions			CISCO Recommended Clearances	
	EN Series Enclosure	ES Series Enclosure	EN Baffle Kit	ES Baffle Kit	RMU	Height	Depth	Equipment to Wall	Equipment to Equipment
7000 Series									
7018 ¹	8401EN-4048	N/A	ENSAB25	N/A	25 RMU	43.75"	32.00"	11.00"	22.00"
9000 Series									
9513	8401EN-3242	XX01ES-30XX	ENSAB14D	ESSAB14D	14 RMU	24.50"	28.00"	6.00"	12.00"
9509 ²	8401EN-3242	XX01ES-30XX	ENSAB14	ESSAB14	14 RMU	24.50"	18.40"	2.50"	6.00"
6000 Series									
6513(-E)	8401EN-3242	XX01ES-30XX	ENSAB19	ESSAB19	19 RMU	33.30"	18.10"	6.00"	12.00"
6509(-E)	8401EN-3242	XX01ES-30XX	ENSAB14	ESSAB14	14 RMU	25.20"	18.10"	6.00"	12.00"
6506(-E)	8401EN-3242	XX01ES-30XX	ENSAB11	ESSAB11	11 RMU	20.10"	18.10"	6.00"	12.00"

¹ Four post mounting is required with a rail placement of 24".

² An additional 0.75" of height is required for rail mount brackets; brackets can be removed after chassis is installed.

NOTE: It is important to read and understand CISCO installation guides that are associated with each switch.

EN GL840EN-3242 SERIES



DIMENSIONS: 84"H x 32"W x 42"D

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./ 90"H x 35"W x 45"D

PART NO.

GL840ENT-3242MSS

DESCRIPTION

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; includes solid top, mesh front door, split mesh rear door, and solid sides

GL840ENT-3242MSS-NS

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; includes solid top, mesh front door, split mesh rear door; sides not included

GL840ENT-3242-FK

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; doors and sides not included

For enclosure with M6 rails, remove 'T' from part number.

ACCESSORIES

PART NO.

ENT-S

DESCRIPTION

Solid Top Panel

ENC-K24

Cable Management Rail Kit; includes 24 sections of "fingers" (each section 7 RMU)

8402EN-M32

Mesh Door assembly for 32"W

EN Enclosure

8402EN-32SM

Split Mesh Door assembly for 32"W

EN Enclosure

8410421-ENLS

Solid side panel for 42"D EN Enclosure

CBB-72

Copper Bus Bar, 70" (isolated)

GR101

Grounding Kit

TCT32

Top Cable Trough

LRB-12

Ladder Rack Bracket for 12"W ladder rack; includes hardware

Shown with optional accessories,
drawings can be found on page 137



GL840EN-4048 SERIES EN



DIMENSIONS: 84"H x 40"W x 48"D

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY:

2000 lbs. on levelers or bolted to floor

SHIPPING WEIGHT AND PALLET SIZE:

450 lbs./ 90"H x 43"W x 51"D

PART NO.

GL840ENT-4048SSS

DESCRIPTION

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; includes solid top, split mesh front door, split mesh rear door, solid sides, and baffle kit (25 RMU) for CISCO® 7018 switch

GL840ENT-4048SSS-NS

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; includes solid top, split mesh front door, split mesh rear door, and baffle kit (25 RMU) for CISCO® 7018 switch; sides not included

GL840ENT-4048-FK

Enclosure with two pair of tapped #12-24 mounting rails with cable management fingers on all rails; includes baffle kit (25 RMU) for CISCO® 7018 switch; doors and sides not included

For enclosure with M6 rails, remove 'T' from part number.

ACCESSORIES

PART NO.

ENT-S

DESCRIPTION

Solid Top Panel

ENC-K24

Cable Management Rail Kit; includes 24 sections of "fingers" (each section 7 RMU)

8402EN-40SM

Split Mesh Door assembly for 40"W EN Enclosure

8410481-ENLS

Solid side panel for 48"D EN Enclosure

CBB-72

Copper Bus Bar, 70" (isolated)

GR101

Grounding Kit

TCT40

Top Cable Trough

LRB-12

Ladder Rack Bracket for 12"W ladder rack; includes hardware



Drawings can be found on page 137



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Small Network

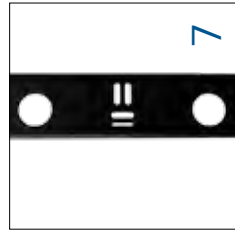
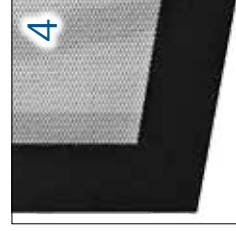
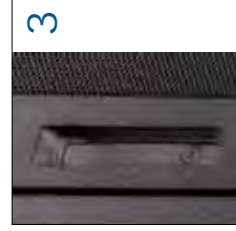
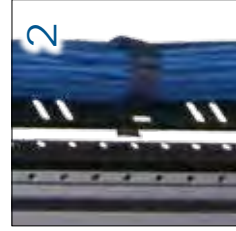
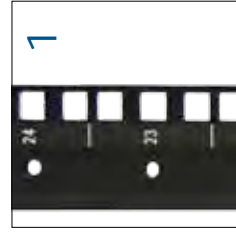
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E ENCLOSURE FEATURES & ACCESSORIES



E Series Enclosures range from 13 RMU to 44 RMU, ideal for applications in a small office/home office, or a large data center. Standard features on each enclosure as well as optional accessories address cooling, power, cable management, and overall convenience.

- 29"W enclosures are designed for networking, while 24"W enclosures are ideal for server applications
- 19" EIA 310-D compliant rails have infinite front to rear adjustability; rails are folded three times to produce a channel effect, creating a more rigid rail
- Split rear doors (either mesh or fan) aid in enclosure ventilation while also minimizing the amount of floor space needed to maintain the rear of equipment

The featured enclosure, GL840E-2936, demonstrates these standard and optional features.

1. RMU markings on all rails allow quick installation of equipment; Great Lakes' cable management posts and cinch straps mount to "extra" holes along rails, not rack spaces
2. Vertical lacing bars move independently from enclosure rails to route cable up and down where needed; horizontal lacing bars route cable from the front to rear
3. Locking swing handles come standard, but additional handles offer varying degrees of security
4. Mesh doors feature a 68% open area, maximizing air flow into the enclosure
5. Choice of solid, perforated, and fan tops; these tops feature horseshoe knockouts that allow interchanging of top panels without interfering with cables
6. All side panels are locking and easy lift-off; gasketing along the enclosure frame creates a close fit between the frame and panel
7. #12 GA rails are formed three times for strength and support cable management with round cable pass through holes as well as vertical and horizontal tie down slots
8. Three removable hinges allow doors to be easily removed and reversed, while creating 180° open swing
9. PDU1 mounting brackets allow the vertical mounting of any 1 RMU equipment (such as power strips) without occupying any RMU space within the enclosure (29"W enclosures only)
10. Casters and levelers can be installed together, making moving and placing the enclosure quick; anti-tip legs add extra safety as the enclosure becomes more populated
11. Grounding studs on the top and bottom of the enclosure are standard; optional copper bus bars and grounding kits easily install to prevent equipment damage
12. Brush grommet bottom panels allow cable pass through while maintaining raised floor air pressure

E GL840E-2936 SERIES



DIMENSIONS: 84"H x 29"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

400 lbs./90"H x 32"W x 38"D

**GL840E-2936P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401E-2936	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-29	Plexiglas Front Door with locking swing handle
8404E-29	Perimeter Vented Steel Rear Door with locking swing handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL840E-2936F	Enclosure with TPE-29F (top panel with three 75 CFM fans)
GL840E-2936F10	Enclosure with TPE-29F10 (top panel with one 10", 550 CFM fan)
GL840E-2936MP	Server Configuration: Enclosure with mesh front & rear doors and TPE-29P vented top
GL840E-2936MCP	Enclosure with mesh front door, mesh contour rear door and TPE-29P vented top
GL840E-2936MSP	Enclosure with mesh front door, split mesh rear door and TPE-29P vented top (available in black only)

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-29PV	Perimeter Vented Plexiglas Door
8403E-29	Solid Door
8402E-M29	Mesh Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-29F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-29F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF29	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS29	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-36	Horizontal Lacing Bar for 36"D enclosure
VLB-84	Vertical Lacing Bar for 84"H enclosure (includes 6 cinch straps)
HCM-D36	Front to rear horizontal cable manager
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A32HD	Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-FRSLA300	Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-72	Copper bus bar 70" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
E23K-36	Conversion Kit to convert from 19" to 23" mounting
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL840E-2932 SERIES



DIMENSIONS: 84"H x 29"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

400 lbs./90"H x 32"W x 38"D

**GL840E-2932P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401E-2932	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-29	Plexiglas Front Door with locking swing handle
8404E-29	Perimeter Vented Steel Rear Door with locking swing handle
8410-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL840E-2932F	Complete enclosure with TPE-29F (top panel with three 75 CFM fans)
GL840E-2932F10	Complete enclosure with TPE-29F10 (top panel with one 10", 550 CFM fan)
GL840E-2932S	Complete enclosure with TPE-29S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-29PV	Perimeter Vented Plexiglas Door
8403E-29	Solid Door
8402E-M29	Mesh Steel Door
8411-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-29F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-29F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF29	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS29	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-8432	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-32	Horizontal Lacing Bar for 32"D enclosure
VLB-84	Vertical Lacing Bar for 84"H enclosure (includes 6 cinch straps)
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-72	Copper bus bar 70" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
E23K-32	Conversion Kit to convert from 19" to 23" mounting
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL840E-2436 SERIES



DIMENSIONS: 84"H x 24"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./90"H x 32"W x 38"D

GL840E-2436P COMPLETE ENCLOSURE INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
8401E-2436	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-24	Plexiglas Front Door with locking swing handle
8404E-24	Perimeter Vented Steel Rear Door with locking swing handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL840E-2436F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL840E-2436F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL840E-2436MP	Complete enclosure with mesh front & rear doors and TPE-24P vented top
GL840E-2436MCP	Complete enclosure with mesh front door, mesh contour rear door and TPE-24P vented top
GL840E-2436MSP	Complete enclosure with mesh front door, split mesh rear door and TPE-24P vented top (available in black only)

Shown with optional accessories,
drawings can be found on page 138

PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-24PV	Perimeter Vented Plexiglas Door
8403E-24	Solid Door
8402E-M24	Mesh Steel Door
8411-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF24	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS24	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-36	Horizontal Lacing Bar for 36"D enclosure
VLB-84	Vertical Lacing Bar for 84"H enclosure (includes 6 cinch straps)
HCM-D36	Front to rear horizontal cable manager
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A32HD	Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-FRSLA300	Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-72	Copper bus bar 70" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL840E-2432 SERIES



DIMENSIONS: 84"H x 24"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 44 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./90"H x 32"W x 38"D

**GL840E-2432P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401E-2432	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-24	Plexiglas Front Door with locking swing handle
8404E-24	Perimeter Vented Steel Rear Door with locking swing handle
8410-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL840E-2432F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL840E-2432F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL840E-2432S	Complete enclosure with TPE-24S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

8402E-24PV	Perimeter Vented Plexiglas Door
8403E-24	Solid Door
8402E-M24	Mesh Steel Door
8411-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF24	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS24	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-8432	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-32	Horizontal Lacing Bar for 32"D enclosure
VLB-84	Vertical Lacing Bar for 84"H enclosure (includes 6 cinch straps)
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-72	Copper bus bar 70" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
8405-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL720E-2936 SERIES



DIMENSIONS: 72"H x 29"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 37 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./78"H x 32"W x 38"D

**GL720E-2936P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7201E-2936	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-29	Plexiglas Front Door with locking swing handle
7204E-29	Perimeter Vented Steel Rear Door with locking swing handle
7210-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL720E-2936F	Complete enclosure with TPE-29F (top panel with three 75 CFM fans)
GL720E-2936F10	Complete enclosure with TPE-29F10 (top panel with one 10", 550 CFM fan)
GL720E-2936S	Complete enclosure with TPE-29S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

7202E-29PV	Perimeter Vented Plexiglas Door
7203E-29	Solid Door
7202E-M29	Mesh Steel Door
7211-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-29F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-29F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF29	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS29	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-7236	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-36	Horizontal Lacing Bar for 36"D enclosure
VLB-72	Vertical Lacing Bar for 72"H enclosure (includes 6 cinch straps)
HCM-D36	Front to rear horizontal cable manager

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A32HD	Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-FRSLA300	Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122
Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7205-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
7205-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
E23K-36	Conversion Kit to convert from 19" to 23" mounting
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL720E-2932 SERIES



DIMENSIONS: 72"H x 29"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 37 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./78"H x 32"W x 38"D

**GL720E-2932P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7201E-2932	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-29	Plexiglas Front Door with locking swing handle
7204E-29	Perimeter Vented Steel Rear Door with locking swing handle
7210-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL720E-2932F	Complete enclosure with TPE-29F (top panel with three 75 CFM fans)
GL720E-2932F10	Complete enclosure with TPE-29F10 (top panel with one 10", 550 CFM fan)
GL720E-2932S	Complete enclosure with TPE-29S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

7202E-29PV	Perimeter Vented Plexiglas Door
7203E-29	Solid Door
7202E-M29	Mesh Steel Door
7211-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-29F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-29F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF29	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS29	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-7232	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-32	Horizontal Lacing Bar for 32"D enclosure
VLB-72	Vertical Lacing Bar for 72"H enclosure (includes 6 cinch straps)

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7205-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
7205-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
E23K-32	Conversion Kit to convert from 19" to 23" mounting
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL720E-2436 SERIES



DIMENSIONS: 72"H x 24"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 37 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

325 lbs./78"H x 32"W x 38"D

GL720E-2436P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
7201E-2436	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-24	Plexiglas Front Door with locking swing handle
7204E-24	Perimeter Vented Steel Rear Door with locking swing handle
7210-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL720E-2436F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL720E-2436F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL720E-2436S	Complete enclosure with TPE-24S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO.	DESCRIPTION
DOORS & SIDE PANELS	
7202E-24PV	Perimeter Vented Plexiglas Door
7203E-24	Solid Door
7202E-M24	Mesh Steel Door
7211-36ELL	Pair of Locking Lift-off Vented Side Panels

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF24	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS24	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-7236	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-36	Horizontal Lacing Bar for 36"D enclosure
VLB-72	Vertical Lacing Bar for 72"H enclosure (includes 6 cinch straps)
HCM-D36	Front to rear horizontal cable manager

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A32HD	Front/Rear Mount adjustable, 17.5"W x 32"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-FRSLA300	Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122
Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7205-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
7205-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL720E-2432 SERIES



DIMENSIONS: 72"H x 24"W x 32"D

Max. rail placement and usable inside depth: 30"

RACK SPACES: 37 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY:

1500 lbs. on levelers, bolted to floor, or on heavy duty casters

SHIPPING WEIGHT AND PALLET SIZE:

325 lbs./78"H x 32"W x 38"D

**GL720E-2432P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7201E-2432	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
7202E-24	Plexiglas Front Door with locking swing handle
7204E-24	Perimeter Vented Steel Rear Door with locking swing handle
7210-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL720E-2432F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL720E-2432F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL720E-2432S	Complete enclosure with TPE-24S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

7202E-24PV	Perimeter Vented Plexiglas Door
7203E-24	Solid Door
7202E-M24	Mesh Steel Door
7211-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24F10	Top Panel and Fan Assembly with one 10", 550 CFM fan
BPF24	Bottom Panel (Filtered), 13"W x 16"D; includes rear solid panel
BPS24	Bottom Panel (Solid), 13"W x 16"D; includes rear solid panel

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-7232	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-32	Horizontal Lacing Bar for 32"D enclosure
VLB-72	Vertical Lacing Bar for 72"H enclosure (includes 6 cinch straps)

19" RACK MOUNT CABLE MANAGEMENT

CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122

Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7205-ES1P	Pair of 19" EIA Mounting Rails with #10-32 tapped holes; includes hardware
7205-ES2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
AK101	Seismic Anchor Kit
AT2	Anti-tip Legs
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL600E-2432 SERIES



DIMENSIONS: 60"H x 24"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 31 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY: 600 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

250 lbs./66"H x 32"W x 38"D

**GL600E-2432P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
6001E-2432	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
6002E-24	Plexiglas Front Door with locking swing handle
6004E-24	Perimeter Vented Steel Rear Door with locking swing handle
6010-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7218-24	8 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL600E-2432F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL600E-2432F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL600E-2432S	Complete enclosure with TPE-24S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

6003E-24	Solid Door
6002E-M24	Mesh Steel Door
6011-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)

Additional Top and Bottom Panels, pages 107-108

19" RACK MOUNT CABLE MANAGEMENT

CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
7219-20AR	6 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122
Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

6005-E2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

E GL480E-2432 SERIES



DIMENSIONS: 48"H x 24"W x 32"D
Maximum rail placement and usable inside depth: 30"

RACK SPACES: 24 RMU • 19" EIA 310-D Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

WEIGHT CAPACITY: 600 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
210 lbs./54"H x 32"W x 38"D

GL480E-2432P COMPLETE ENCLOSURE INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
4801E-2432	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
4802E-24	Plexiglas Front Door with locking swing handle
4804E-24	Perimeter Vented Steel Rear Door with locking swing handle
4810-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7218-24	8 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL480E-2432F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL480E-2432F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL480E-2432S	Complete enclosure with TPE-24S solid top

Shown with optional accessories,
drawings can be found on page 138



PART NO. DESCRIPTION

DOORS & SIDE PANELS

4803E-24	Solid Door
4802E-M24	Mesh Steel Door
4811-32ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 100-103

TOP & BOTTOM PANELS

TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)

Additional Top and Bottom Panels, pages 107-108

CABLE MANAGEMENT

VLB-4832	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
CBB-48	Copper bus bar 45.75" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Cooling Equipment, pages 117-122
Additional Power Strips, pages 114-116

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

4805-E2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

E GL300E-2432 SERIES



Drawings can be found on page 138



DIMENSIONS: 30"H x 24"W x 32"D
 Maximum rail placement and usable inside depth: 30"
RACK SPACES: 13 RMU • 19" EIA 310-D Compliant
STOCK COLORS: Black, Advantage White, or Nitro Blue
WEIGHT CAPACITY: 300 lbs
SHIPPING WEIGHT AND PALLET SIZE:
 160 lbs./36"H x 32"W x 38"D

**GL300E-2432P COMPLETE ENCLOSURE
 INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
3001E-2432	Frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
3002E-24	Plexiglas Front Door with locking swing handle
3004E-24	Perimeter Vented Steel Rear Door with locking swing handle
3010-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7219	6 position, Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL300E-2432F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL300E-2432F10	Complete enclosure with TPE-24F10 (top panel with one 10", 550 CFM fan)
GL300E-2432S	Complete enclosure with TPE-24FS solid top

PART NO.	DESCRIPTION
DOORS & SIDE PANELS	
3003E-24	Solid Door
3002E-M24	Mesh Steel Door
3011-32ELL	Pair of Locking Lift-off Vented Side Panels
<i>Additional Doors, pages 100-103</i>	
TOP & BOTTOM PANELS	
TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)
<i>Additional Top and Bottom Panels, pages 107-108</i>	
19" RACK MOUNT CABLE MANAGEMENT	
CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W
<i>Additional Cable Management, pages 123-130</i>	
STATIONARY SHELVES FOR 19" MOUNTING	
7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING	
7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
<i>Additional Shelves, pages 110-111</i>	

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT	
7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
7219-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-30	Copper bus bar 25.5" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans
<i>Additional Cooling Equipment, pages 117-122</i>	
<i>Additional Power Strips, pages 114-116</i>	

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES	
3005-E2P	Pair of 19" EIA Mounting Rails to accept M6 cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

CL CO-LO ENCLOSURE



The Co-Lo provides separate entry for each compartment; approved personnel are able to access the necessary equipment, while the remaining equipment is protected from unauthorized use.

- Pre-assembled to your equipment configuration
- Secure vertical cable management raceways
- Cable access provisions located on top and bottom
- Grounding studs on doors, side panels, and base unit
- Fan assembly located on each rear door optional

DIMENSIONS: 84"H x 28"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 14 RMU per compartment • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY: 1500 lbs. on levelers or bolted to floor

SHIPPING WEIGHT AND PALLET SIZE:

500 lbs./90"H x 32"W x 38"D

PART NO.	DESCRIPTION
GL84CL3MM	Complete 3 compartment Co-Lo Cabinet (14 RMU per compartment) with mesh front and rear doors; secure vertical cable management raceways (rear raceway, 54.5"H x 5.75"W x 2.75"D; front raceway 28.5"H x 5.75"W x 2.75"D)
GL84CL3PF	Same as GL84CL3MM except with perimeter vented plexi front doors and solid rear doors with built in exhaust fans

ACCESSORIES

PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-20AR	6 position, 20 amp Power Strip for 19" mounting; 5-20R receptacle and 5-20P plug
7206-FR-AHD	Stationary Shelf, front/rear mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
CM-04	Interbay Cable Organizer with 4 front horizontal rings, 3.25"W x 2.8"D
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR101	Grounding Kit
AK101	Seismic Anchor Kit (includes 4 torque controlled expansion anchors)
7208-E	One Set of 4 Casters, 2 locking and 2 non-locking
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
CH-02	Door Handle with three digit combination and key

Shown with optional accessories



CO-LO ENCLOSURE CL



The Co-Lo provides separate entry for each compartment; approved personnel are able to access the necessary equipment, while the remaining equipment is protected from unauthorized use.

- Pre-assembled to your equipment configuration
- Secure vertical cable management raceways
- Cable access provisions located on top and bottom
- Grounding studs on doors, side panels, and base unit
- Fan assembly located on each rear door optional

DIMENSIONS: 84"H x 28"W x 36"D

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 21 RMU per compartment • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY: 1500 lbs. on levelers or bolted to floor

SHIPPING WEIGHT AND PALLET SIZE:

500 lbs./90"H x 32"W x 38"D

PART NO.

DESCRIPTION

GL84CL2MM

Complete 2 compartment Co-Lo Cabinet (21 RMU per compartment) with mesh front and rear doors; secure vertical cable management raceways (44.38"H x 5.75"W x 2.75"D)

GL84CL2PF

Same as GL84CL2MM except with perimeter vented plexi front doors and solid rear doors with built in exhaust fans

ACCESSORIES

PART NO.

DESCRIPTION

7219

6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug

7219-20AR

6 position, 20 amp Power Strip for 19" mounting; 5-20R receptacle and 5-20P plug

7206-FR-AHD

Stationary Shelf, front/rear mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity

CM-04

Interbay Cable Organizer with 4 front horizontal rings, 3.25"W x 2.8"D

CBB-19

Copper Bus Bar for 19" mounting (isolated)

GR101

Grounding Kit

AK101

Seismic Anchor Kit (includes 4 torque controlled expansion anchors)

7208-E

One Set of 4 Casters, 2 locking and 2 non-locking

7209-N

One Set of 4 Adjustable Levelers (2.5"H)

CH-02

Door Handle with three digit combination and key



Shown with optional accessories

EZ SEISMIC ENCLOSURE



The Seismic Server Enclosure (EZ) was independently tested and certified to exceed established Seismic Zone 4 NEBS GR-63-CORE testing standards. The EZ accepts standard ES Enclosure accessories, including power strip brackets and cable management. Additional accessory options such as the Great Lakes Air Manager can be customized for the EZ. The Seismic Enclosure is not a stock product and requires a longer lead time. Additional sizes also available. Please call 1.866.TRY.GLCC for details.

DIMENSIONS: 84"H x 30"W x 42"D
Maximum rail placement and usable inside depth: 35"
RACK SPACES: 45 RMU • 19" EIA 310-D Compliant
COLOR: Black
WEIGHT CAPACITY:
1000 lbs.; non-seismic weight capacity of 3000 lbs.
SHIPPING WEIGHT AND PALLET SIZE:
500 lbs./90"H x 32"W x 45"D

GL840EZ-3042 COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
8401EZ-3042	Seismic frame with two pairs of black powder coated, universal 19" M6 mounting rails (with RMU markings) and package of M6 hardware
AK101	Seismic Anchor Kit
TPES-S	Solid Top Panel
8402EZ-M30	Seismic Mesh Front Door with locking swing handle
8402EZ-M30	Seismic Mesh Rear Door with locking swing handle
8410-36Ezs	Pair of Seismic Side Panels

It is important to note that if the construction of the building itself or that of the data center environment within the building are not seismic rated, the seismic rating of the enclosure can not alone be expected to completely protect equipment mounted within the enclosure during exposure to earthquake conditions.



Drawings can be found on page 139

PART NO. DESCRIPTION

TOP PANELS

TPES-P	Perforated Top Panel
TPES-S	Solid Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-F	Top Panel with fan guards and three, 75 CFM fans

CABLE MANAGEMENT

BGS-84-48	Brush Grommet for 84"H x 42"D enclosure; to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through knockouts
CMP	Cable Management Post, 3"
ESC-K12	Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section 7 RMU); rails will need to be recessed 4.5"
HCM-D36	Horizontal Cable Organizer; to mount from the front to the rear of the enclosure
LRB-12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-24	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
TCT30	Top Cable Trough and hardware; 6.5"W x 4"D x 30"L
VCT-84	Vertical Cable Trough
VCT-84C	Cover for VCT-84

Additional Cable Management, pages 123-130

STATIONARY SHELVES FOR 19" MOUNTING

7206-FR-ADHD	Front/Rear Mount adjustable, 17.50"W x 27.25"D, 150 lb. weight capacity
7206-FR-A32HD	Front/Rear Mount adjustable, 17.50"W x 32.00"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.50"W x 26.00"D, 100 lb. weight capacity
7206-FRSLA300	Front/Rear Mount adjustable, 14.33"W x 30.00"D, 300 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray

Additional Shelves, pages 110-111

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
7215-30A	24 position, 30 amp Power Strip; 5-20R receptacle and L5-30P plug
CBB-72	Copper Bus Bar 70" (isolated)
GL-EC-42-1832	Exhaust Chimney for 42"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 42"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for chimney, 1200 CFM

Additional Power Strips, pages 114-116

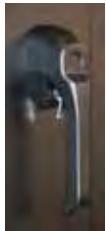
HARDWARE

HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101ES	Networking/Gangging Kit

N NEMA 12 ENCLOSURE



Hinge and Gasketing



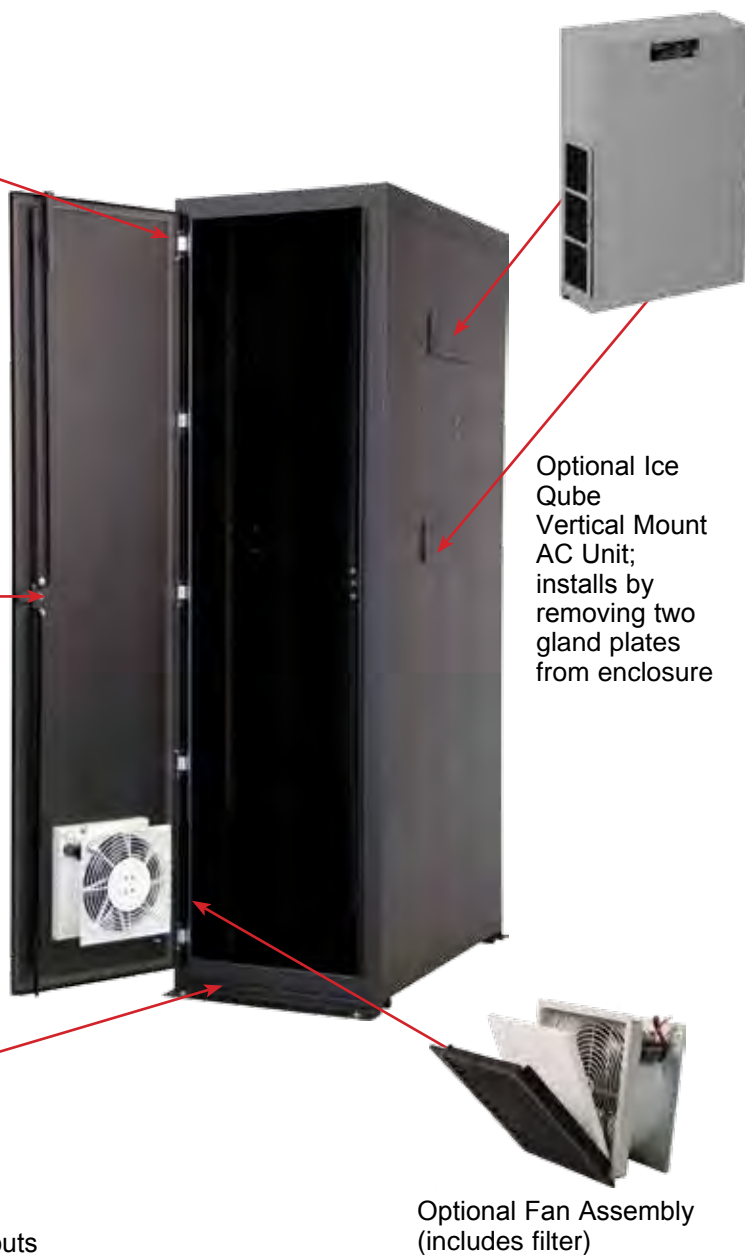
Heavy Duty Handle with 3 point latch



Cable Access Knockouts



Cable Access Knockouts



Optional Ice Qube Vertical Mount AC Unit; installs by removing two gland plates from enclosure

Optional Fan Assembly (includes filter)

NEMA 12 Free Standing Enclosures are constructed to be compliant with the National Electrical Manufacturers Association's Type 12 standard. NEMA 12 enclosures, intended for indoor use, protect equipment against dust, falling dirt, water and non-corrosive liquids.

DIMENSIONS: 84"H x 24"W x 42"D
Maximum rail placement and usable inside depth: 38"

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant

STOCK COLOR: Black

WEIGHT CAPACITY: 2000 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
500 lbs./90"H x 38"W x 45"D

PART NO.	DESCRIPTION
GL840N12-2442	NEMA Type 12 Enclosure

ACCESSORIES

PART NO.	DESCRIPTION
FFKN12-A1	Fan Assembly (includes filter) and exhaust filter, 230 CFM, 115V
FFKN12-A2	Fan Assembly (includes filter) and exhaust filter, 295 CFM, 115V
FFKN12-A3	Fan Assembly (includes filter) and exhaust filter, 368 CFM, 115V
FILTER-09	Package of five replacement filters for fan kits

Each Ice Qube AC Unit* is UL listed and has a digital temperature controller with alarm, built in condensate evaporator, and contains CFC-free refrigerant. Ice Qube AC Units are warranted by Ice Qube for a period of 1 year from invoice date.

GL2500V	Ice Qube AC Unit, 2500 BTU, 120V, 7.3 amps
GL3500V	Ice Qube AC Unit, 3500 BTU, 120V, 8.2 amps
GL4500V	Ice Qube AC Unit, 4500 BTU, 120V, 9.5 amps
GL6000V	Ice Qube AC Unit, 6000 BTU, 120V, 0.9 amps



Drawings can be found on page 140



Height, depth, and accessory options means there is a wall mount suitable for any application.

- **WM** wall mounts feature knockouts, fully adjustable rails, and accessory options; ideal for large wiring and network applications
- **WS and WD** wall mounts are similar to WM wall mounts; however, both series are able to be mounted on casters, allowing additional weight to be supported.
- **NEMA 12** wall mounts provide protection to equipment in industrial environments
- **Swing Racks**, available in 3 heights and 2 depths, are a quick and economical way to mount 19" EIA equipment
- A number of specialty wall mounts accommodate small spaces, unique applications, and frequently used equipment

The following pages compare all Great Lakes' wall mount features to help you choose the right wall mount for your specific application!



WALL MOUNTS

WM • WS • WD • 15 WM • WE • WR • SR • WMR • TPM

W CHOOSING THE RIGHT WALL MOUNT

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	WM Series	WS Series	WD Series	WE Series	NEMA 12
WHY IT'S GREAT	Horseshoe knockouts on the top and bottom of the enclosure allow already configured patch panels to be installed; Accessory options include power, cooling and shelves	A feature-rich wall mount, offering many of the same options as a full size enclosure; Accessory options include power, cooling and shelves	Similar to the WS, the WD provides additional depth for larger pieces of equipment; Accessory options include power, cooling and shelves	Side mounting reduces the open space required to mount equipment; mounting across 3 studs provides extra stability	Provides protection against dust, dirt, and non-corrosive liquids
HEIGHT	24", 36", 48"	24", 36", 48"	24", 36", 48"	24"	24, 36, 48"
WIDTH	21.25"	24"	24"	36.10"	24"
OVERALL DEPTH	24.5"	24"	32.13"	20.5"	24"
USABLE DEPTH	22"	21"	30"	Usable space 34"	22"
RMU	12, 19, 25	11, 18, 25	11, 18, 25	10	12, 19, 26
WT. CAP.	150, 250, 300 lbs.	250, 300, 350 lbs.	250, 300, 350 lbs.	350 lbs.	150, 250, 300 lbs.
EIA-310D COMPLIANT MOUNTING RAILS	2 pair of #12-24; fully adjustable	2 pair of #12-24; fully adjustable	2 pair of #12-24; fully adjustable	2 pair of M6; fully adjustable	2 pair of #12-24; fully adjustable
FRONT DOOR OPTION	Solid Steel or Plexiglas	Solid Steel or Plexiglas	Solid Steel or Plexiglas	Mesh	Solid Steel
HINGES	Full piano hinge provides added strength for rear section	Industrial grade hinges provide added strength for rear section	Pin hinges provide added strength for rear section	Standard hinges for easy door opening and removal	Industrial grade hinges provide added strength for rear section
CABLE MANAGEMENT	1, 2, and 3" conduit knockouts and horseshoe knockouts on top and bottom of rear section; 1, 2, and 3" on rear section	1, 2, 3, and 4" conduit knockouts on top and bottom of rear section; 1, 2, 3 and 4" on rear section	1, 2, 3, and 4" conduit knockouts on top and bottom of rear section; 1, 2, 3, and 4" on rear section	1, 2, and 3" conduit knockouts on top and bottom of the mounts; 1, 2, and 3" on rear	1, 2, and 3" conduit knockouts on side; 1, 2, and 3" conduit knockouts on top and bottom of rear section
GASKETING	Doors fully gasketed	Doors and sides fully gasketed	Doors fully gasketed	Doors fully gasketed	N/A
CASTER MOUNTING	N/A	Yes	Yes	N/A	N/A
DUST KIT	Optional to protect equipment in high dust/industrial areas	N/A	Optional to protect equipment in high dust/industrial areas	N/A	N/A
FAN ASSEMBLY	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional filtered fans
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	Center swing-out section provides front/rear access to cables Reversible cabinet for left or right hand swing Vented side panels for airflow Weight tested to ½" of deflection	Center swing-out section provides front/rear access to cables Solid and vented sides available Weight tested to ½" of deflection	Center swing-out section provides front/rear access to cables Vented side panels for airflow Weight tested to ½" of deflection	Lift-off, lockable front panel	Front door and rear section lock independently Gland plates can be removed to add fans/filters

CHOOSING THE RIGHT WALL MOUNT W

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	WR Series	15WM Series	SR/SRD Series	WMR Series	TPM Series
WHY IT'S GREAT	Ideal for small switch and patch panel applications	Ideal for classroom and small store applications where equipment (DVD players, switches, etc.) is used daily.	An economical solution to mounting equipment where space is limited	Design and features of a rack in the convenience of a wall mount.	Mounting rails tilt down 90° for easy maintenance and access to the back of patch panels, switches, and other small equipment
HEIGHT	4, 7.5"	15"	24, 36, 48"	48"	16.31"
WIDTH	19.75"	22.25"	20.75"	20.25"	19.88"
OVERALL DEPTH	21.63"	17.66"	18, 24"	12.18"	18"
USABLE DEPTH	21"	17"	16, 22"	12"	17"
RMU	2, 4	7	12, 19, 26	24	8
WT. CAP.	50, 75 lbs.	100 lbs.	100 lbs.	250 lbs.	50 lbs.
EIA-310D COMPLIANT MOUNTING RAILS	One pair of #10-32	One pair of #10-32	One pair of #12-24	One pair of #12-24	One pair of #12-24
FRONT DOOR OPTION	N/A	Solid Steel or Plexiglas	N/A	N/A	Solid steel cover available
HINGES	N/A	Standard hinges	Hinge Pins for easy opening and closing	N/A	N/A
CABLE MANAGEMENT	Provisions for cable cinch straps	½, ¾, 1, and 1 ½" conduit knockouts on top and bottom of back section; ½, ¾, 1, and 1 ½" on back section	Provisions for cable cinch straps	N/A	Open rear cutout for cable access
GASKETING	N/A	N/A	N/A	N/A	N/A
CASTER MOUNTING	N/A	N/A	N/A	N/A	N/A
DUST KIT	N/A	N/A	N/A	N/A	N/A
FAN ASSEMBLY	N/A	Optional one fan assembly	N/A	N/A	N/A
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	Bolt on cover panel for easy access to equipment Wall mount holes for horizontal or vertical mounting Side ventilation provides airflow	Main body separates from back panel allowing for easy, one person installation Unique security bit required to remove main body from back panel "Spare" 1 RMU tab on back panel allows power strip mounting	Easy assembly	Easy assembly	Optional solid steel front and top cover kit for added security Perforated pattern for airflow

WM SERIES



Shown with optional accessories

FEATURES

- 19" EIA 310-D Compliant
- Horseshoe knockouts on the top and bottom of the enclosure allow already configured patch panels to be installed
- 2 pair of #12-24 rails; fully adjustable
- Solid Steel or Plexiglas Doors
- 1, 2, and 3" conduit and horseshoe knockouts on top and bottom of rear section; 1, 2, and 3" on rear section
- Full piano hinge provides added strength for rear section
- Dust Kit available to protect equipment in high dust/industrial areas
- Center swing-out section provides front/rear access to cables
- Reversible cabinet for left or right hand swing-out
- Vented side panels for air flow
- Weight tested to 1/2" of deflection

WM SERIES

PART NO.	DESCRIPTION
GL2418WM	24"H x 21.25"W x 18"D, Usable depth 16", Maximum rail spacing 11.06", 12 RMU, Plexiglas door Weight capacity 150 lbs.*, Shipping wt. 85 lbs.
GL2418WMS	Same as GL2418WM except solid door
GL24WM	24"H x 21.25"W x 24.5"D, Usable depth 22", Maximum rail spacing 17.62", 12 RMU, Plexiglas door Weight capacity 150 lbs.*, Shipping wt. 95 lbs.
GL24WMS	Same as GL24WM except solid door
GL36WM	36"H x 21.25"W x 24.5"D, Usable depth 22", Maximum rail spacing 17.62", 19 RMU, Plexiglas door Weight capacity 250 lbs.*, Shipping wt. 125 lbs.
GL36WMS	Same as GL36WM except solid door
GL48WM	48"H x 21.25"W x 24.5"D, Usable depth 22", Maximum rail spacing 17.62", 25 RMU, Plexiglas door Weight capacity 300 lbs.*, Shipping wt. 160 lbs.
GL48WMS	Same as GL48WM except solid door

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES

PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7206-14	Stationary Shelf, 17.5"W x 14"D, 80 lb. weight capacity (for use with GL2418)
7206-EIA	Stationary Shelf, 17.468"W x 18"D, 80 lb. weight capacity
7206-FR-A18	Stationary Shelf (front/rear mount adjustable), 17.5"W x 18"D, 150 lb. weight capacity
7206-SL	Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR102	Grounding Kit for use with WM, WD, WS, and WE Wall Mounts
7217WS	Fan Assembly with Fan Guards and two 75 CFM fans
FFK1	Four Fan Filters
DK2	Dust Resistant Kit; includes 4 cover plates, 4 fan filters and hardware (not for use with GL2418)



Shown with optional accessories

FEATURES

- 19" EIA 310-D Compliant
- A feature-rich wall mount, offering many of the same options as a full-size enclosure
- 2 pair of #12-24 rails; fully adjustable
- Solid Steel or Plexiglas Doors
- 1, 2, 3, and 4" conduit knockouts on top and bottom of rear section; 1, 2, 3, and 4" on rear section
- Industrial grade hinges provide added strength for rear section
- Doors and sides fully gasketed
- Center swing-out section provides front/rear access to cables
- Solid and vented sides available
- Weight tested to 1/2" of deflection

WS SERIES

PART NO.

PART NO.	DESCRIPTION
GL24WS-SS	24"H x 24"W x 24"D, 11 RMU, Weight capacity 250 lbs.*, Shipping wt. 125 lbs., Solid Front Door & Solid Sides
GL24WS-SV	Same as GL24WS-SS except with Solid Front & Vented Sides
GL24WS-PS	Same as GL24WS-SS except with Plexi Front & Solid Sides
GL24WS-PV	Same as GL24WS-SS except with Plexi Front & Vented Sides
GL36WS-SS	36"H x 24"W x 24"D, 18 RMU, Weight capacity 300 lbs.*, Shipping wt. 150 lbs., Solid Front Door & Solid Sides
GL36WS-SV	Same as GL36WS-SS except with Solid Front & Vented Sides
GL36WS-PS	Same as GL36WS-SS except with Plexi Front & Solid Sides
GL36WS-PV	Same as GL36WS-SS except with Plexi Front & Vented Sides
GL48WS-SS	48"H x 24"W x 24"D, 25 RMU, Weight capacity 350 lbs.*, Shipping wt. 200 lbs., Solid Front Door & Solid Sides
GL48WS-SV	Same as GL48WS-SS except with Solid Front & Vented Sides
GL48WS-PS	Same as GL48WS-SS except with Plexi Front & Solid Sides
GL48WS-PV	Same as GL48WS-SS except with Plexi Front & Vented Sides

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES

PART NO.

PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7206-FR-A18	Stationary Shelf (front/rear mount adjustable), 17.5"W x 18"D, 150 lb. weight capacity
7206-SL	Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR102	Grounding Kit for use with WM, WD, WS, and WE Wall Mounts
7217WS	Fan Assembly with Fan Guards and two 75 CFM fans
FFK1	Four Fan Filters
WS-22	66/110 Block Mounting Panel
7208WS	One Set of 5 Casters, 2 locking and 3 non-locking

W WD SERIES



FEATURES

- 19" EIA 310-D Compliant
- 2 pair of #12-24 rails; fully adjustable
- The WD provides additional depth for larger pieces of equipment
- Solid Steel or Plexiglas Doors
- 1, 2, 3, and 4" conduit knockouts on top and bottom of rear section; 1, 2, 3, and 4" on rear section
- Pin hinges provide added strength for rear section
- Dust Kit available to protect equipment in high dust/industrial areas
- Weight tested to 1/2" of deflection

WD SERIES

PART NO.

DESCRIPTION

GL24WD	24"H x 24"W x 32.13"D, Usable depth 30", Maximum rail spacing 23", 11 RMU, Plexiglas door, Weight Capacity 250 lbs.*, Shipping wt. 125 lbs.
GL24WDS	Same as GL24WD except solid door
GL36WD	36"H x 24"W x 32.13"D, Usable depth 30", Maximum rail spacing 23", 18 RMU, Plexiglas door, Weight Capacity 300 lbs.*, Shipping wt. 150 lbs.
GL36WDS	Same as GL36WD except solid door
GL48WD	48"H x 24"W x 32.13"D, Usable depth 30", Maximum rail spacing 23", 25 RMU, Plexiglas door, Weight Capacity 350 lbs.*, Shipping wt. 200 lbs.
GL48WDS	Same as GL48WD except solid door

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES

PART NO.

DESCRIPTION

7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7206-EIA	Stationary Shelf, 17.468"W x 18"D, 80 lb. weight capacity
7206-FR-AHD	Stationary Shelf (front/rear mount adjustable) 17.5"W x 22.25"D, 200 lb. weight capacity
7206-SL	Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity
7206-FRSL-AHD	Sliding Shelf (front/rear mount adjustable) 17.5"W x 22"D, 110 lb. weight capacity
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR102	Grounding Kit for WM, WD, WS, and WE Wall Mounts
HDW-104-50	Package of 50 Pan Head Phillips #12-24 x 1/2" screws (Type 23, black)
7217WS	Fan Assembly with fan guards and two 75 CFM fans
FFK1	Four Fan Filters
DK1	Dust Resistant Kit (includes 4 cover plates, 4 fan filters and hardware)
7208WD	One Set of 5 Casters, 2 locking and 3 non-locking



Shown with optional accessories

FEATURES

- 19" EIA 310-D Compliant
- Ideal size for areas where space is limited (e.g. classrooms and convenience stores)
- One pair of #10-32 rails
- Main body separates from back panel allowing for easy, one person installation
- Unique security bit required to remove main body from back panel
- "Spare" 1 RMU tab on back panel allows power strip mounting
- Solid Steel or Plexiglas Doors

15WM PART NO.	DESCRIPTION
GL15WM	15.38"H x 22.25"W x 17.66"D, Usable depth 17", 7 RMU, Plexiglas Front Door, Weight Capacity 100 lbs., Shipping wt. 50 lbs.,
GL15WMS	15.38"H x 22.25"W x 17.66"D, Usable depth 17", 7 RMU, Solid Front Door, Weight Capacity 100 lbs., Shipping wt. 50 lbs.,
ACCESSORIES PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7219-20AR	6 position, 20 amp Power Strip for 19" mounting; 5-20R receptacle and 5-20P plug
7206-14	Stationary Shelf, 17.5"W x 14"D, 80 lb. weight capacity
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR102	Grounding Kit for use with WM, WS, WD and WE Wall Mounts
7217-04	Fan Kit (includes single 75 CFM fan with fan guards and power cord)



Shown with optional accessories

FEATURES

- 19" EIA 310-D Compliant
- Side mounting reduces the open space required to mount equipment; mounting across 3 studs provides extra stability
- 2 pair of M6 rails; fully adjustable
- 1, 2, and 3" conduit knockouts on top and bottom
- 1, 2, and 3" conduit knockouts on rear of wall mount

WE SERIES

PART NO.	DESCRIPTION
GL24WE	24"H x 36.1"W x 20.5"D, Usable space 34", Maximum rail spacing 29", 10 RMU, Wt. cap. 350 lbs., Shipping wt. 100 lbs., Mesh side doors and solid front panel; includes M6 cage nuts

ACCESSORIES

PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7217WS	Fan Assembly with fan guards and two 75 CFM fans



Shown with optional accessories

FEATURES

- 19" EIA 310-D Compliant
- Ideal for switches and sound equipment when space is limited
- #10-32 mounting holes and three position adjustable rails
- Removable cover allows for left, right, or vertical equipment orientation

WR SERIES

PART NO.	DESCRIPTION
WR2	4"H x 19.75"W x 21.63"D, Usable space 21", Rack spaces: 2 RMU, Wt. cap. 50 lbs., Shipping wt. 17 lbs.
WR4	7.5"H x 19.75"W x 21.63"D, Usable space 21", Rack spaces: 4 RMU, Wt. cap. 75 lbs., Shipping wt. 20 lbs.



NEMA 12 Wall Mount Enclosures have been independently tested and certified to meet the National Electrical Manufacturers Association's Type 12 standard. NEMA 12 enclosures are intended for indoor use to provide a degree of protection to the equipment inside the enclosure against dust, falling dirt, water and non-corrosive liquids.

FEATURES

- 19" EIA 310-D Compliant
- 2 pair of #12-24 rails; fully adjustable
- Reversible mounting
- Keyed locks with dust covers
- Front and rear sections lock independently
- Provisions for cable access for 1", 2", and 3" conduit knock-outs
- Provisions for fan assembly kit
- 14 gauge main body and rear section

NEMA 12 WALL MOUNT

PART NO.	DESCRIPTION
GL240N12	24"H x 24"W x 24"D, Rack Space 12 RMU, Wt. cap. 150 lbs., Shipping wt. 105 lbs.; can accept one FFKN12-A4
GL360N12	36"H x 24"W x 24"D, Rack Space 19 RMU, Wt. cap. 250 lbs., Shipping wt. 140 lbs.; can accept two FFKN12-A4
GL480N12	48"H x 24"W x 24"D, Rack Space 26 RMU, Wt. cap. 300 lbs., Shipping wt. 175 lbs.; can accept three FFKN12-A4

ACCESSORIES

PART NO.	DESCRIPTION
FFKN12-A4	Fan Assembly (includes filter) and exhaust filter, 38 CFM, 115V
FILTER-10	Package of five replacement filters for FFKN12-A4





FEATURES

- 19" EIA 310-D Compliant
- #12-24 mounting holes
- Deeper than traditional swing racks
- Easy to assemble, install and mount

SRD SERIES SWING RACK (DEEP)

PART NO.	DESCRIPTION
GL24SRD	24"H x 20.75"W x 24"D, Usable depth 22", 12 RMU, Wt. cap. 100 lbs., Shipping wt. 34 lbs., includes #12-24 screws
GL36SRD	36.25"H x 20.75"W x 24"D, Usable depth 22", 19 RMU, Wt. cap. 100 lbs., Shipping wt. 44 lbs., includes #12-24 screws
GL48SRD	48.5"H x 20.75"W x 24"D, Usable depth 22", 26 RMU, Wt. cap. 100 lbs., Shipping wt. 54 lbs., includes #12-24 screws

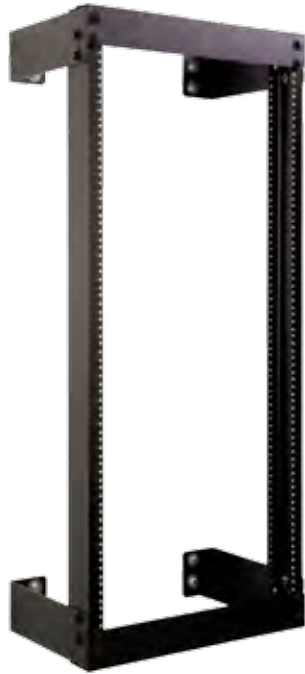


FEATURES

- 19" EIA 310-D Compliant
- #12-24 mounting holes
- 180° positive stop with stay open hinge pins
- Easy to assemble, install and mount

SR SERIES SWING RACK

PART NO.	DESCRIPTION
GL24SR	23.75"H x 20.75"W x 18"D, Usable depth 16", 12 RMU, Wt. cap. 100 lbs., Shipping wt. 30 lbs., includes #12-24 screws
GL36SR	36"H x 20.75"W x 18"D, Usable depth 16", 19 RMU, Wt. cap. 100 lbs., Shipping wt. 36 lbs., includes #12-24 screws
GL48SR	48.75"H x 20.75"W x 18"D, Usable depth 16", 26 RMU, Wt. cap. 100 lbs., Shipping wt. 48 lbs., includes #12-24 screws



FEATURES

- 19" EIA 310-D Compliant
- Design and features of a 2 post rack in the convenience of a wall mount
- 12 gauge steel mounting brackets are strong and durable
- #12-24 mounting rails

WALL MOUNT RACK

PART NO.	DESCRIPTION
BS2-WMR-24	48"H x 20.52"W x 12.18"D, Usable depth 12", 24 RMU, Wt. cap. 250 lbs., Shipping wt. 20 lbs.



FEATURES

- 19" EIA 310-D Compliant
- Ideal for patch panels and network panels
- Mounting rails tilt down 90°; provides easy access to back of equipment
- Security cover kit available; consists of lift-off front panel and top cover
- #12-24 mounting holes

TILT PANEL MOUNT

PART NO.	DESCRIPTION
BS2-TPM-818	16.31"H x 19.88"W x 18"D, 8 RMU, Wt. cap. 50 lbs., Shipping wt. 22 lbs.
BS2-TPMC-818	Tilt Panel Mount Cover Kit (includes top cover and front panel)

W OTHER WALL MOUNTS



FEATURES

- Protect DVD, Blue-ray players and other small AV equipment
- Mounts under counter, vertically or to a wall or with optional shelf bracket
- Optional fan for proper ventilation
- #10-32 mounting holes

DVR LOCK BOX

PART NO.	DESCRIPTION
BS2-UCB3	6.3"H x 21"W x 21"D, 3 RMU, Wt. cap. 100 lbs., Shipping wt. 24 lbs.
BS2-UCB5	9.8"H x 21"W x 21"D, 5 RMU, Wt. cap. 100 lbs., Shipping wt. 29 lbs.

ACCESSORIES

PART NO.	DESCRIPTION
BS2-UCBBKT	Shelf bracket for DVR Lock Box
7217-04	Single Fan Assembly with fan guard and 75 CFM fan



FEATURES

- Provides mounting and access to AV equipment
- 3 position tilt-out rack for operation and maintenance
- External knockouts to mount low voltage devices

TM3 SERIES

PART NO.	DESCRIPTION
BS2-TM3S	34.5"H x 23"W x 6"D, 3 RMU, Wt. cap. 75 lbs., Shipping wt. 50 lbs.; surface mount
BS2-TM3R	34.5"H x 23"W x 5.5"D, 3 RMU, Wt. cap. 75 lbs., Shipping wt. 50 lbs.; recessed mount



FEATURES

- Mounts CPU towers to the wall to save desk space
- Adjustable slide (6.21" to 11.08") accepts nearly any size tower

CPUBKT

PART NO.	DESCRIPTION
BS2-CPUBKT	Wt. cap. 100 lbs., Shipping wt. 18 lbs.



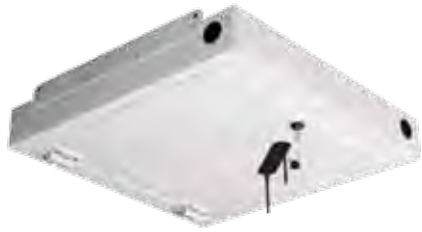
FEATURES

- Easily fits under counters and desks
- Optional doors available
- Ships flat

MR11

PART NO.	DESCRIPTION
BS2-MR11	23.4"H x 23"W x 26"D, 11 RMU Wt. cap. 150 lbs., Shipping wt. 60 lbs.

OTHER WALL MOUNTS / ACCESSORIES W



FEATURES

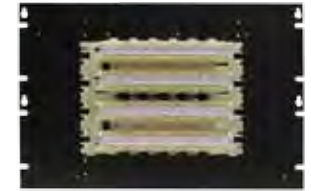
- Mounts wireless routers in standard ceiling tiles
- Rotating center section allows antenna to be repositioned
- Locks for restricted access

WI-FI BOX

PART NO.	DESCRIPTION
BS2-2424WFB	24"H x 24"W x 3.5"D, Shipping wt. 18 lbs.



PART NO.	DESCRIPTION
7217WS	Fan Assembly with fan guards and two 75 CFM fans; for use with WS, WM, WD and WE Wall Mounts
7217-04	Fan Assembly with fan guard and one 75 CFM fan; for use with 15WM only



PART NO.	DESCRIPTION
WS-22	66/110 Block Mounting Panel for use with WS, WM, WD and WE Wall Mounts; panel is 19" rack mount and can be installed in any rack mount enclosure



FEATURES

- 10 RMU ceiling box that fits into a standard ceiling grid
- Provides four separate RMU sections in 2 tiers
- Optional fan available for proper airflow

RMU CEILING BOX

PART NO.	DESCRIPTION
BS2-CB10	48"H x 24"W x 24"D, Rack spaces 10 RMU, Wt. cap. 75 lbs., Shipping wt. 50 lbs.
BS2-CB10FT	Single fan with shroud, 75 CFM, 110 VAC



PART NO.	DESCRIPTION
FFK1	Set of four fan filters, for use with WS, WM and WD Wall Mounts



PART NO.	DESCRIPTION
7208WS	One set of five Casters, two locking and three non-locking; for WS Wall Mounts
7208WD	One set of five Casters, two locking and three non-locking; for WD Wall Mounts



PART NO.	DESCRIPTION
DK1	Dust Resistant Kit (includes 4 cover plates, 4 fan filters and hardware); for use with WD Wall Mounts
DK2	Dust Resistant Kit (includes 4 cover plates, 4 fan filters and hardware); for use with WM Wall Mounts



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Constructed and built to be more durable than other industry racks, 2 and 4 post racks by Great Lakes can easily withstand a full load of equipment. Pair racks with vertical cable channels and accessories to create a complete rack solution.

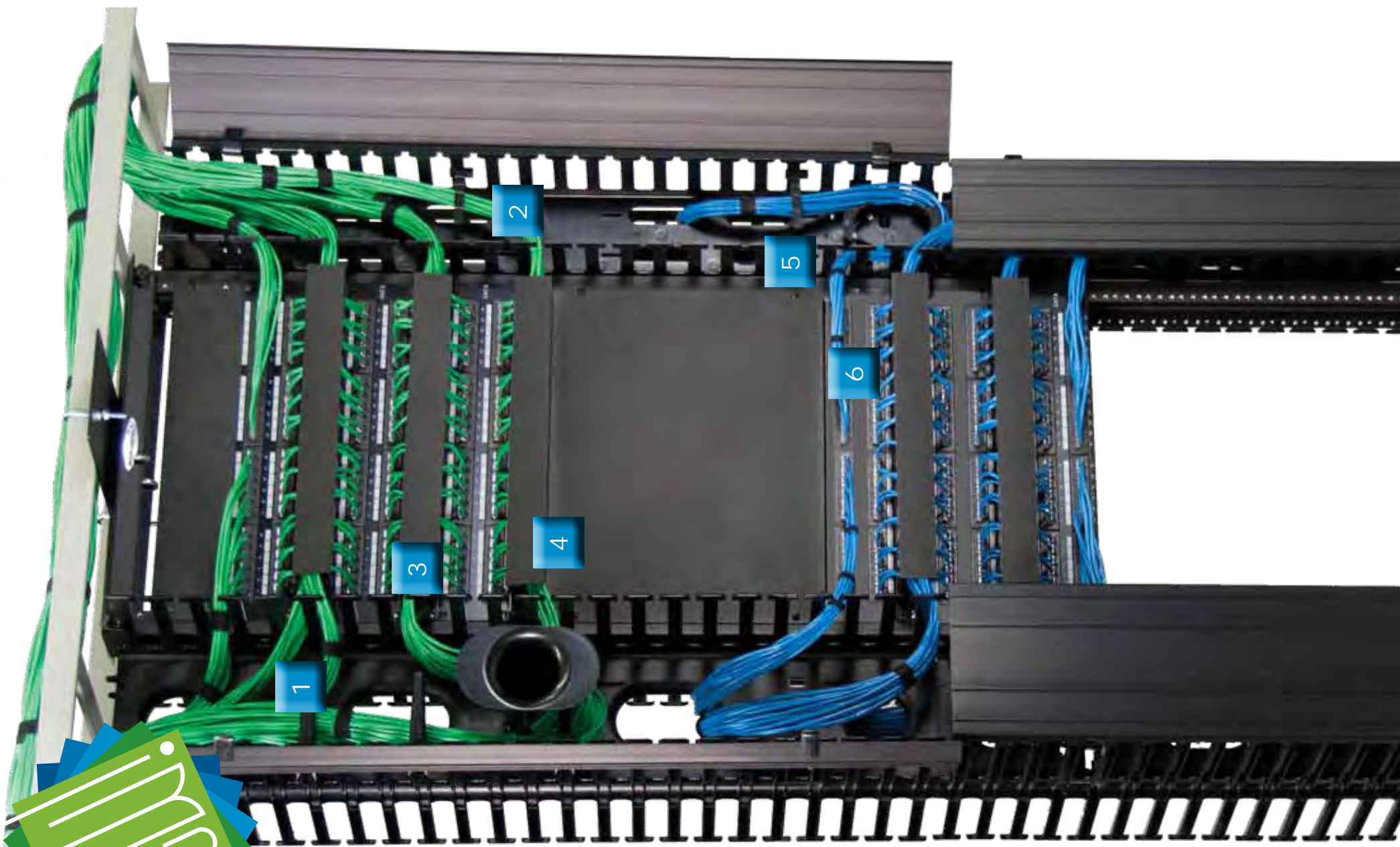
- [Vertical Cable Organizers](#) and accessories easily attach to 2 and 4 post racks to manage small to large cable applications
- [2 Post Racks](#) feature double sided aluminum and 1/2" assembly bolts that easily hold 1500 lbs.; available in multiple heights (15-59 RMU) and two finishes
- [4 Post Racks](#) are available in multiple heights and depths; choose from two types of mounting
- [Configured 2 and 4 Post Racks with Vertical Cable Organizers](#); packaged together with one part number for quick ordering
- [Heavy Duty 4 Post Racks](#) can hold a "ton" of equipment, or can accept casters for easy movement (lowers weight capacity)
- [Cable Management Racks](#) feature built-in cable accessories for quick and easy maintenance of cable applications

Choose your rack and add rack-specific accessories (shelves, power strip brackets, cable organizers) to achieve a flexible, user-friendly product.



RACKS

2 POST • 4 POST • CABLE MANAGEMENT





CABLE MANAGEMENT RACK ACCESSORIES

Many customers prefer the flexibility offered by plastic cable management. Great Lakes has responded to this need by working with leading manufacturers and establishing a comprehensive portfolio of plastic cable management products. When used with Great Lakes 2 and 4 Post Racks, plastic cable management creates a complete solution for patch panels and telecommunications equipment.

1. **8" VERTICAL CABLE ORGANIZER**
 - VCM8-FR (2 slack spools, 2 retainers, front/rear channel)
 - VCM8-FO (1 slack spool, 1 retainer, single channel)
 - 8" x 80"L vertical channel
 - Each channel holds up to 384 CAT6 cables or 738 CAT5e cables
 - Large fingers align with RMUs
 - Contains large cable pass throughs (4.8" x 2.6")
 - Contains small cable pass throughs (2.6" x 2.6")
 - Hinged cover included
2. **5" VERTICAL CABLE ORGANIZER**
 - VCM5-FR (Front/Rear channel as shown in photo)
 - VCM5-FO (Single channel)
 - 5" x 80"L vertical channel
 - Each channel holds up to 126 CAT6 cables or 246 CAT5e cables
 - Large fingers align with RMUs
 - Contains cable pass throughs
 - Cover included; hinge kit available

3. CABLE RETAINERS

- VCM8-WR for 8"; (package of 6)
- VCM5-CR for 5"; (package of 10)
- Attaches anywhere along fingers to secure cable bundles
- Available for 8" and 5" channels



4. CABLE SPOOL; VCM8-SL (package of 2)

- Helps create proper bend radius
- Stores cable slack
- Easily repositionable
- Able to be mounted in 6 locations
- For 8" channels only



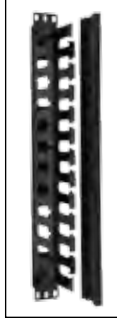
5. SLACK LOOP ORGANIZER; VCM5-SL (package of 2)

- Stores slack cables
- Adjustable to accommodate needed cable slack
- For 5" channels only



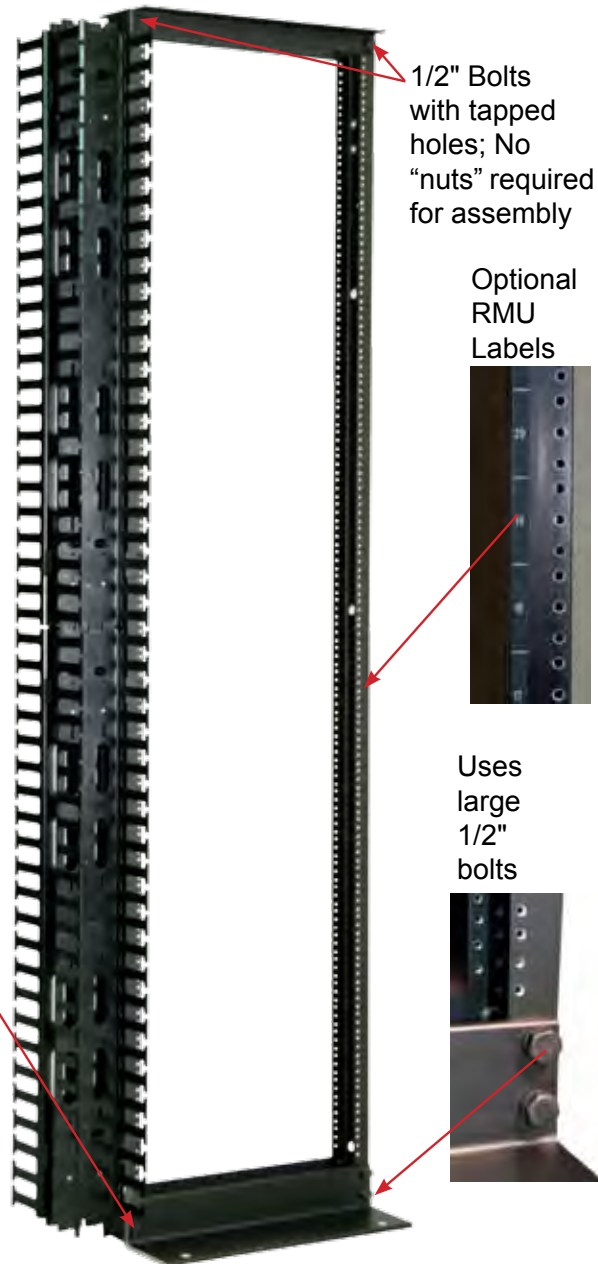
6. 19" CABLE ORGANIZERS

- CM-16 (1 RMU) and CM-17 (2 RMU)
- Helps organize and direct cables
- Large finger spacing
- Includes clips to create proper bend radius
- Cover included



PLASTIC CABLE MANAGEMENT PART NO.	DESCRIPTION
VCM8-FR	Vertical Front & Rear Cable Management, 8" Channel x 80"L; includes 2 spools, 2 wire retainers, and black hinge cover
VCM8-FO	Vertical Front Cable Management, 8" Channel x 80"L; includes 1 spool, 1 wire retainer, and black hinge cover
VCM8-SL	Pack of two, Duct Slack Loop Cable Spools, for 8" channel only
VCM8-WR	Pack of six Wire Retainers, for 8" channel only
VCM5-FR	Vertical Front & Rear Cable Management, 5" Channel x 80"L, and black snap-on cover
VCM5-FO	Vertical Front Cable Management, 5" Channel x 80"L, and black snap-on cover
VCM5-SL	Pack of two Duct Slack Loop Storage Organizers, for 5" channel only
VCM5-CR	Pack of ten Cable Retainers, for 5" channel only
VCM5-HNG	Duct Cover Hinge Kit; eliminates need to Completely remove cover; for 5" channel only
CM-16	Plastic 19" Cable Organizer, 1 RMU, 1.5" x 3"; includes cover
CM-17	Plastic 19" Cable Organizer, 2 RMU, 3" x 3"; includes cover

R 2 POST RACKS



DIMENSIONS: 84"H x 20.31"W x 14"D

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant; 23" mounting is available; contact Great Lakes for more information

WEIGHT CAPACITY: 1500 lbs.

CONSTRUCTION: Double sided extruded aluminum with #12-24 tapped holes

SHIPPING WEIGHT AND CARTON SIZE: 30 lbs./86"L x 6"W x 4"H

PART NO.	DESCRIPTION
GLRR-1984BA-5FO	2 Post Rack with 5" Vertical Front Cable Management; includes mounting hardware; black anodized finish
GLRR-1984BA-5FR	Same as above except with 5" Vertical Front and Rear Cable Management
GLRR-1984BA-8FO	Same as above except with 8" Vertical Front Cable Management (includes cover)
GLRR-1984BA-8FR	Same as above except with 8" Vertical Front and Rear Cable Management (includes cover)
GLRR-1984	2 Post Rack with mounting hardware; mill finish
GLRR-1984BA	2 Post Rack with mounting hardware; black anodized finish

ACCESSORIES

PART NO.	DESCRIPTION
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug; requires PSBGLRR
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
PSBGLRR	Vertical Power Strip Mounting Bracket
1984-VCM10	7"H x 10"D Double-sided Vertical Cable Manager with 6"W x 5"D cable runs
CM-07	Waterfall Cable Management Trough
7206-EIA	Stationary Shelf, 17.468"W x 18"D, 80 lb. weight capacity
7206-14	Stationary Shelf, 17.50"W x 14"D, 80 lb. weight capacity
7206-SL	Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity
GL-RMUTA	Package of 4 RMU Labels in ascending order (1 on the bottom, 45 on the top)
GL-RMUTD	Package of 4 RMU Labels in descending order (1 on the top, 45 on the bottom)

Tapped holes
No "nuts"
required
for assembly

Uses
large
1/2"
bolts



Shown with optional accessories

2 POST RACKS R



In addition to standard, 84" high 2 post racks (GLRR-1984), Great Lakes also offers sizes ranging from 36"H to 108"H. Racks are still able to accept horizontal cable management and shelves, making them ideal for any amount of equipment. The following racks are not standard product. Please call [1.866.TRY.GLCC](tel:1.866.TRY.GLCC) for details and our best lead time.

PART NO.	DESCRIPTION
GLRR-1936	2 Post Rack, 36"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 18 RMU, mill finish
GLRR-1936BA	2 Post Rack, 36"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 18 RMU, black anodized finish
GLRR-1948	2 Post Rack, 48"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 24 RMU, mill finish
GLRR-1948BA	2 Post Rack, 48"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 24 RMU, black anodized finish
GLRR-1960	2 Post Rack, 60"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 31 RMU, mill finish
GLRR-1960BA	2 Post Rack, 60"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 31 RMU, black anodized finish
GLRR-1966	2 Post Rack, 66"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 35 RMU, mill finish
GLRR-1966BA	2 Post Rack, 66"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 35 RMU, black anodized finish
GLRR-1972	2 Post Rack, 72"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 38 RMU, mill finish
GLRR-1972BA	2 Post Rack, 72"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 38 RMU, black anodized finish
GLRR-1996	2 Post Rack, 96"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 52 RMU, mill finish
GLRR-1996BA	2 Post Rack, 96"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 52 RMU, black anodized finish
GLRR-19108	2 Post Rack, 108"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 59 RMU, mill finish
GLRR-19108BA	2 Post Rack, 108"H x 20.31"W x 14"D, wt. cap. 1500 lbs, 59 RMU, black anodized finish

R 4 POST RACKS



DIMENSIONS: 84"H x 20.6"W, Rail Depth Ranges from 24" to 36"

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant

WEIGHT CAPACITY: 1500 lbs. when networked; 1000 lbs. free standing

CONSTRUCTION: 12 Gauge Cold Rolled Steel and Extruded Aluminum

SHIPPING WEIGHT: Please see Part No. Description

PART NO.	DESCRIPTION
4PM6-29-5FO	29"D Rack with M6 Mounting and 5" Vertical Front Cable Management; cold rolled steel construction; includes mounting hardware
4PM6-29-5FR	Same as above except with 5" Vertical Front and Rear Cable Management
4PM6-29-8FO	Same as above except with 8" Vertical Front Cable Management (includes cover)
4PM6-29-8FR	Same as above except with 8" Vertical Front and Rear Cable Management (includes cover)
4PM6-24	24"D Rack with M6 Mounting; cold rolled steel construction includes mounting hardware; 3 cartons totaling 82 lbs.
4PM6-29	Same as above except with 29"D; 3 cartons totaling 83 lbs.
4PM6-32	Same as above except with 32"D; 3 cartons totaling 86 lbs.
4PM6-36	Same as above except with 36"D; 3 cartons totaling 87 lbs.
4P1224-24	24"D Rack with #12-24 Mounting; aluminum upright construction and steel bracket set; includes mounting hardware; 3 cartons/64 lbs.
4P1224-29	Same as above except with 29"D; 3 cartons totaling 65 lbs.
4P1224-32	Same as above except with 32"D; 3 cartons totaling 68 lbs.
4P1224-36	Same as above except with 36"D; 3 cartons totaling 69 lbs.

ACCESSORIES

PART NO.	DESCRIPTION
7215-20ARTLP	16 position Power Strip; 5-20R receptacle and L5-20P plug; requires PSBGLRR
PSBGLRR	Vertical Power Strip Mounting Brackets
7206-FR-A32HD	Stationary Shelf (front/rear mount adjustable) 17.5"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf (front/rear mount adjustable) 17.5"W x 26"D, 110 lb. weight capacity
GL-RMUTA	Package of 4 RMU Labels in ascending order (1 on the bottom, 45 on the top)



Shown with optional accessories

HD 4 POST RACK R



DIMENSIONS: 80.5"H x 20.6"W x 29"D

RACK SPACES: 42 RMU • 19" EIA 310-D Compliant

WEIGHT CAPACITY: 2000 lbs. bolted to floor

CONSTRUCTION: 12 Gauge Cold Rolled Steel with M6 Mounting

SHIPPING WEIGHT AND CARTON SIZE: 85 lbs./84"L x 9"W x 4"H

PART NO.
4PHD29

DESCRIPTION

Heavy Duty 4 Post Rack with mounting hardware; designed for caster mounting

ACCESSORIES

PART NO.
7219

DESCRIPTION

6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug

7219-SR14

14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector

1984-VCM10

7.00'H x 10.00"D Double-sided Vertical Cable Manager with 6"W x 5"D cable runs

CM-01

Cable Management Cinch Strap, 12"L x .75"W

7206-FR-ADHD

Stationary Shelf (with adjustable tabs for 29" mounting) 17.5"W x 27.25"D, 150 lb. weight capacity

7206-FRA32HD

Stationary Shelf (front/rear mount adjustable) 17.5"W x 32"D, 300 lb. weight capacity

7206-FRSL-ADHD

Sliding Shelf (with adjustable tabs for 29" mounting) 17.5"W x 26"D, 110 lb. weight capacity

7206-FRSLA300

Sliding Shelf (front/rear mount adjustable) 14.33"W x 30"D, 300 lb. weight capacity

AK101

Seismic Anchor Kit (includes 4 torque-controlled expansion anchors)

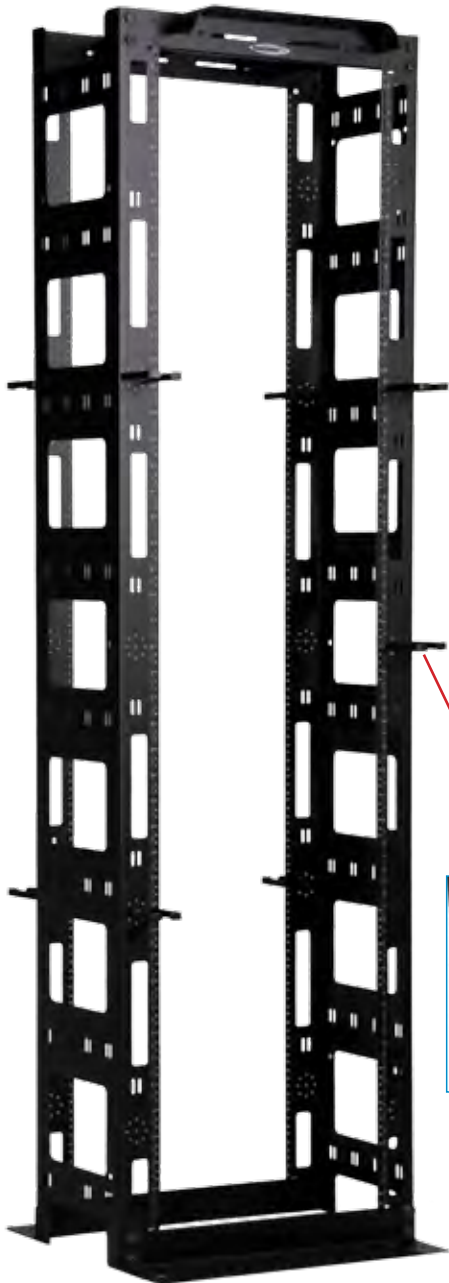
7208-4PHD

One Set of 4 Casters (when used, weight capacity of rack becomes 750 lbs.)



Shown with optional accessories

R CABLE MANAGEMENT RACK



DIMENSIONS: 84"H x 24"W x 21"D

RACK SPACES: 45 RMU • 19" EIA 310-D Compliant
(Adjustable to 23" mounting)

WEIGHT CAPACITY: 1000 lbs.

CONSTRUCTION: 12 Gauge Cold Rolled Steel with #12-24 tapped holes

SHIPPING WEIGHT AND CARTON SIZE: 85 lbs./87"L x 14"W x 4"H

PART NO.
CMR-45U

DESCRIPTION

Cable Management Rack that includes: front top and rear top waterfall cable trays, two middle adjustable waterfall brackets, 8 rotating cable rings (2.5" x 4"), 88 cable tie slots, vertical channels (3.06" W x 12"D)

ACCESSORIES

PART NO.
7219

DESCRIPTION

6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug

7219-SR14

14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector

CM-07

Waterfall Cable Management Trough

CM-01

Cable Management Cinch Strap, 12"L x .75"W

CM-04

Interbay Cable Organizer with 4 front horizontal rings, 3.25"W x 2.8"D

7206-EIA

Stationary Shelf, 17.468"W x 18"D, 80 lb. weight capacity

7206-FM

Stationary Shelf, 17.25"W x 18"D, 60 lb. weight capacity

7206-FR-AHD

Stationary Shelf (front/rear mount adjustable)

17.5"W x 22.25"D, 200 lb. weight capacity

7206-FR-A18

Stationary Shelf (front/rear mount adjustable)

17.5"W x 18"D, 150 lb. weight capacity

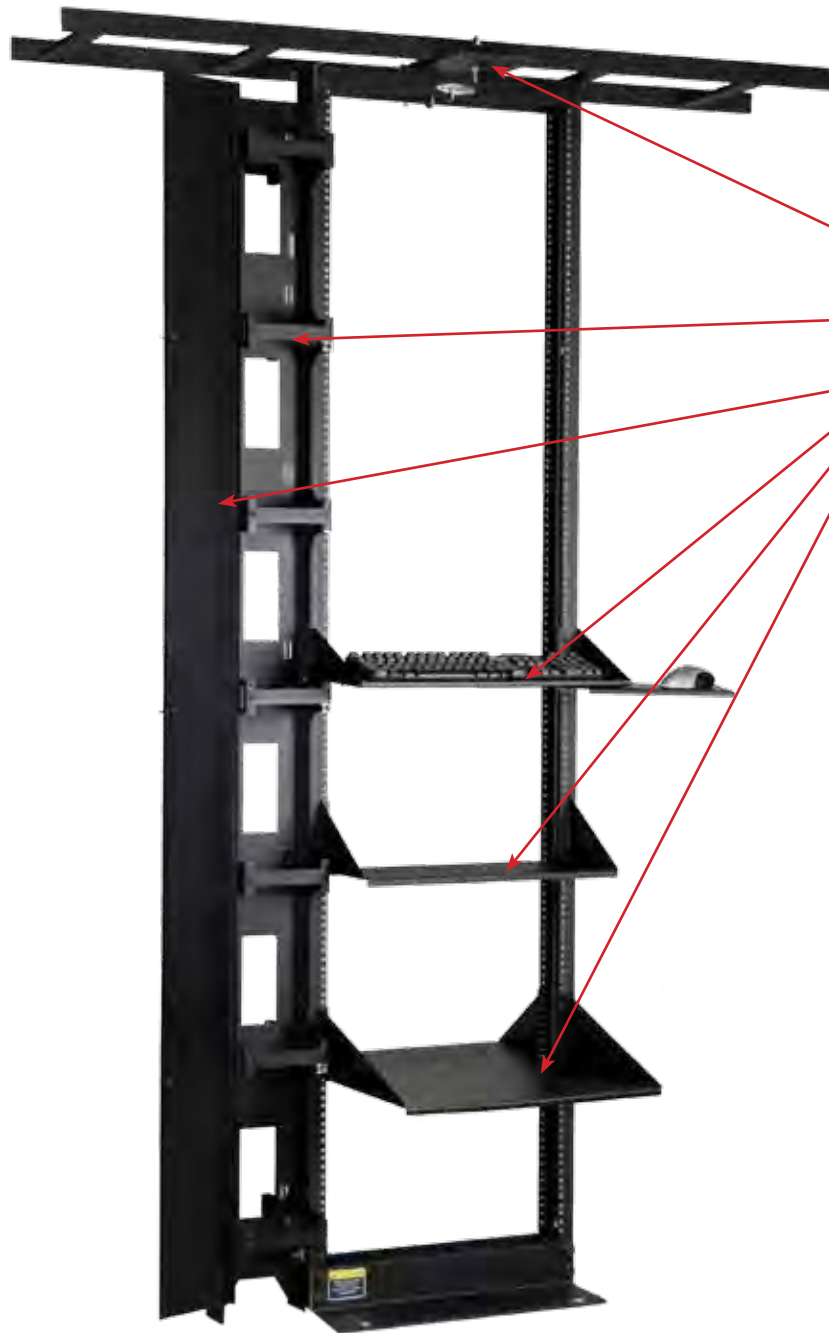
7206-SL

Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity

AK101

Seismic Anchor Kit (includes 4 torque-controlled expansion anchors)





ACCESSORIES FOR 2 AND 4 POST RACKS

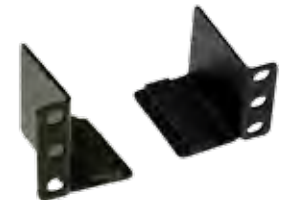
PART NO.	DESCRIPTION
1984LR	Ladder Rack Support Bracket, mounts either parallel or perpendicular to rack <i>Works with 12", 15", and 18" wide ladder racks.</i>
1984-VCM10	7'H x 10"D Double-sided Vertical Cable Manager with 6"W x 5"D cable runs
1984-VCM10C	Single Hinged Cover for 1984-VCM10
1984-KM	Keyboard Shelf with Pivoting Mouse Tray, 19"W x 8"D
1984ST09	Stationary Shelf, 19"W x 9"D, 75 lb. weight capacity
1984ST15	Stationary Shelf, 19"W x 15"D, 75 lb. weight capacity

A combination of any two of these shelves can be placed together for extra depth and weight capacity.

AK101 Seismic Anchor Kit (includes 4 torque-controlled expansion anchors)
*Seismic qualifications tested in accordance with ACI 355.2 and ICC-ES AC 193;
Meets ductility requirements of 318 D.3.3*



FMSBKT Front Mount Support Bracket Kit (Hardware Included)
For use with Cable Management and 4 Post Racks



Triple Plays aren't as rare as you'd think!

Great Lakes Triple Play racks are making their appearance in the broadcast, sound, and security industries! Whether you need your equipment under lock and key, or need quick access to it, there is a rack configuration for you. Please call 1.866.TRY.GLCC for more details.



Versatility and flexibility are what make Great Lakes furniture lines “great”!

SENTRY™ Console Systems are designed by the Great Lakes engineering team on a case-by-case basis. Each console is custom, but many configurations include similar components; sheet metal bases and supports, laminate work surfaces, options for rack mount equipment, and monitor mounts. A simple and sleek design equals low maintenance and cost savings.

ADVANTAGE® Technical Furniture Systems can serve as a one person workstation or furniture can be expanded to create an organized IT environment. Steel frames, storage compartments, shelves, and drawers allow users to create the system that is most convenient for them.



FURNITURE

SENTRY™ • ADVANTAGE®



Sentry Console Systems are designed to meet the unique specifications of individual applications. From simple desks in a classroom to mission critical platforms, Sentry Consoles can be configured for use in nearly any industry.

- Each console is custom designed based on customer needs
- Manufactured using North American cold-rolled steel
- Bases are comprised of two pair of rails to mount 19" EIA equipment
- Bases and components available in a variety of powder coat finishes
- Durable laminate tops available in a variety of colors
- Single, dual, and multiple flat screen monitor mounts offered

Sentry Console Systems are custom designed by the Great Lakes design team at no additional charge. We will meet the same six-week production schedule for custom products as other manufacturers do for standard product.



This system was designed to mount classroom AV equipment while also serving as a podium. It features:

- A GL300E Series Enclosure serves as the base
- Locking sides
- Locking doors
- Cutout for an electrical switch
- Conduit knockouts for wires
- Slide-out work surface
- Drop down control panel door
- Thick laminate tops
- Caster Mounting



Several versions of a broadcast edit suite were manufactured for a TV station. Components include:

- Four rack mount areas
- Cutouts for cable pass through
- Dual-monitor mount
- Cutout in the laminate for control installation
- Thick laminate top
- Modesty panels



A double workstation with video wall was created for security purposes. A separate unit for mounting additional screens was created for the same facility. This more complex console system features:

- Two workstations with a shared peninsula
- Two, dual-horizontal monitor mounting arms
- Two, dual-vertical monitor mounting arms
- Dual-vertical monitor mounts for larger screens
- Articulating keyboard trays
- Laminate work surface
- Side and center shelves for PC towers
- A separate, lockable unit for additional screens (similar to the configuration pictured below)





ADVANTAGE® Technical Furniture Systems are designed with an open frame, modular concept that allows users to create a layout specifically tailored to employees and equipment. The clean look, durable build, and accessory options of ADVANTAGE® makes it versatile enough to serve as a complex repair station or simple enough to organize your front office.

ADVANTAGE® features include:

- Ability to be reconfigured and easily assembled to accommodate group work, or single workstations
- Steel construction of base frames, storage compartments and shelves (with weight capacities up to 775 lbs.) to ensure strength and longevity of the workstation, as well as protection for equipment
- Storage drawers and lockable, overhead compartments organize files, tools, and supplies
- Varying workstation widths and heights as well as vertical adjustability of overhead components allow for the creation of a comfortable user space
- User-specific accessories, including PDUs, peninsulas, cable management solutions, and LCD mounts personalize any work environment



ADVANTAGE® PROFESSIONAL

The ADVANTAGE® Professional Configuration provides a complete technical furniture system which could easily fit in any environment from the newsroom to the trading or executive floor. This configuration also includes a peninsula work surface for additional work space and an under-counter drawer unit.

79"H x 77.5"W x 77.2"D



ADVANTAGE® CORNER

The ADVANTAGE® Corner Configuration provides the same strength and features of the technical furniture system which can be installed in a very small (4'X4') space. The corner configuration can also be connected to another unit to create additional work space for applications like the broadcast edit suite.

48"SQ



ADVANTAGE® STANDARD

The ADVANTAGE® Standard Configuration provides the basic “building block” for any technical furniture system. This configuration includes frames and supports, a 72" X 31.5" work surface, shelving, cable management, 16" overhead storage bin and a double screen monitor mount. (The Standard Configuration is also available with a 50" wide work surface, shelving and storage bin.)

79"H x 76"W x 35.2"D




MOBILE WORKSTATION

The mobile workstation allows users to take their work with them! A locking frame (with interior space of 20"W x 13"D) provides security for a CPU tower, laptop, and other materials. A six position powerstrip is pre-installed in the bottom of the workstation. The monitor mount is able to be adjusted for comfortable use. Large casters means moving the workstation doesn't have to be a hassle. A hammertone gray finish and wrist rest complete the look.

70"H x 24"W x 21"D





Great Lakes Accessory Options allow you to create custom configured enclosures based on your needs. Accessories can be ordered with an enclosure and Great Lakes will install these items at no charge, prior to shipping. You can also order product separately. Accessories include:

BASIC ENCLOSURE PARTS:

Doors & Handles • Side Panels • Shelves
Top & Bottom Panels • Hardware

COOLING EQUIPMENT:

Exhaust Chimneys • Air Managers
Raised Floor Grommets • Filler Panels
Fan Trays • Baffle Kits

CABLE MANAGEMENT:

Cable Rings • 19" Cable Organizers
External Cable Manager • Lacing Bars
Vertical Cable Troughs

POWER OPTIONS:

Standard Power Strips • Intelligent PDUs
Grounding Equipment • Mounting Brackets



ACCESSORY

O • P • T • I • O • N • S

A DOORS



SOLID STEEL DOORS

PART NO.	DESCRIPTION
3003E-24	Solid Steel Door, 30"H x 24"W Frame
4803E-24	Solid Steel Door, 48"H x 24"W Frame
6003E-24	Solid Steel Door, 60"H x 24"W Frame
7203E-24	Solid Steel Door, 72"H x 24"W Frame
7203E-29	Solid Steel Door, 72"H x 29"W Frame
7803E-24	Solid Steel Door, 78"H x 24"W Frame
7803E-29	Solid Steel Door, 78"H x 30"W Frame
8403E-24	Solid Steel Door, 84"H x 24"W Frame
8403E-29	Solid Steel Door, 84"H x 29" and 30"W Frame



PLEXIGLAS DOORS

PART NO.	DESCRIPTION
3002E-24	Plexiglas Door, 30"H x 24"W Frame
4802E-24	Plexiglas Door, 48"H x 24"W Frame
6002E-24	Plexiglas Door, 60"H x 24"W Frame
7202E-24	Plexiglas Door, 72"H x 24"W Frame
7202E-29	Plexiglas Door, 72"H x 29"W Frame
8402E-24	Plexiglas Door, 84"H x 24"W Frame
8402E-29	Plexiglas Door for 84"H x 29" and 30"W Frame



MESH DOORS

PART NO.	DESCRIPTION
3002E-M24	Mesh Steel Door, 30"H x 24"W Frame
4802E-M24	Mesh Steel Door, 48"H x 24"W Frame
6002E-M24	Mesh Steel Door, 60"H x 24"W Frame
7202E-M24	Mesh Steel Door, 72"H x 24"W Frame
7202E-M29	Mesh Steel Door, 72"H x 29"W Frame
7802E-M24	Mesh Steel Door, 78"H x 24"W Frame
8402E-M24	Mesh Steel Door, 84"H x 24"W Frame
8402E-M29	Mesh Steel Door, 84"H x 29" and 30"W Frame



PERIMETER VENTED STEEL DOORS

PART NO.	DESCRIPTION
3004E-24	Perimeter Vented Steel Door, 30"H x 24"W Frame
4804E-24	Perimeter Vented Steel Door, 48"H x 24"W Frame
6004E-24	Perimeter Vented Steel Door, 60"H x 24"W Frame
7204E-24	Perimeter Vented Steel Door, 72"H x 24"W Frame
7204E-29	Perimeter Vented Steel Door, 72"H x 29"W Frame
8404E-24	Perimeter Vented Steel Door, 84"H x 24"W Frame
8404E-29	Perimeter Vented Steel Door, 84"H x 29" and 30"W Frame



PERIMETER VENTED PLEXIGLAS DOORS

PART NO.	DESCRIPTION
7202E-24PV	Perimeter Vented Plexiglas Door, 72"H x 24"W Frame
7202E-29PV	Perimeter Vented Plexiglas Door, 72"H x 29"W Frame
8402E-24PV	Perimeter Vented Plexiglas Door, 84"H x 24"W Frame
8402E-29PV	Perimeter Vented Plexiglas Door, 84"H x 29" and 30"W Frame



PERIMETER VENTED MESH DOORS

PART NO.	DESCRIPTION
7202E-24PVM	Perimeter Vented Mesh Door, 72"H x 24"W Frame
7202E-29PVM	Perimeter Vented Mesh Door, 72"H x 29"W Frame
8402E-24PVM	Perimeter Vented Mesh Door, 84"H x 24"W Frame
8402E-29PVM	Perimeter Vented Mesh Door, 84"H x 29" and 30"W Frame

A DOORS



MESH CONTOUR DOORS

PART NO.	DESCRIPTION
4802E-MC24	Mesh Contour Door, 48"H x 24"W Frame
7802E-MC24	Mesh Contour Door, 78"H x 24"W Frame
7802E-MC29	Mesh Contour Door, 78"H x 30"W Frame
8402E-MC24	Mesh Contour Door, 84"H x 24"W Frame
8402E-MC29	Mesh Contour Door, 84"H x 29" and 30"W Frame



SPLIT MESH DOORS

PART NO.	DESCRIPTION
7802E-24SM	Split Mesh Steel Door, 78"H x 24"W Frame
7802E-29SM	Split Mesh Steel Door, 78"H x 30"W Frame
8402E-24SM	Split Mesh Steel Door, 84"H x 24"W Frame
8402E-29SM	Split Mesh Steel Door, 84"H x 29" and 30"W Frame

Split Mesh Doors are available in black only.



SPLIT FAN DOORS

PART NO.	DESCRIPTION
4803E-SF24	Split Fan Door set, 48"H x 24"W Frame
7803E-SF24	Split Fan Door set, 78"H x 24"W Frame
7803E-SF29	Split Fan Door set, 78"H x 30"W Frame
8403E-SF24	Split Fan Door set, 84"H x 24"W Frame
8403E-SF29	Split Fan Door set, 84"H x 29" and 30"W Frame

Split Fan Doors are available in black only.



SPLIT SOLID DOORS

PART NO.	DESCRIPTION
7803E-SS24	Split Solid Door set, 78"H x 24"W Frame
7803E-SS29	Split Solid Door set, 78"H x 30"W Frame
8403E-SS24	Split Solid Door set, 84"H x 24"W Frame
8403E-SS29	Split Solid Door set, 84"H x 29" and 30"W Frame

Split Solid Doors are available in black only.



PART NO.
CH-01

DESCRIPTION
The CH-01 Door Handle features a grip handle with a combination lock which includes a four-digit tumbler, along with a master key (Handle may be opened individually via either method).



PART NO.
CH-02

DESCRIPTION
The CH-02 Door Handle features a low-profile, nested handle which contains a three-digit combination lock and master key (Handle may be opened individually via either method).



PART NO.
CH-03

DESCRIPTION
The CH-03 Door Handle features a nested padlock handle with a secondary key lock for additional security (Padlock not included).



PART NO.
CH-04

DESCRIPTION
The CH-04 is a nested Door Handle which may be secured by padlock.

A BIOMETRIC ACCESS CONTROL



Digitus Biometrics fingerprint access control systems can secure any area of your data center, from the front door to the cabinet doors. There are no proximity cards to be lost, stolen, or shared with unauthorized personnel, and gaining access is as simple as the touch of a fingertip. Digitus' proprietary biometric technology, IP networking, and advanced control software combine to deliver centralized administration, real-time monitoring and alerts, and an indisputable audit trail for every door and cabinet you choose to secure.

db ServerRack, 1U*



The db ServerRack, 1U solution utilizes Digitus Biometrics' proprietary software and hardware in a system that creates an algorithmic template associated with the individual's fingerprint, while verifying that the print belongs to a real living and breathing person, all without having to worry about the collection of private personal information. db ServerRack, 1U solution also includes 16 hours of battery backup.

db BioLock Handle*

The db BioLock handle is designed to exactly fit the standard opening for all Great Lakes enclosures, making installation easy, seamless and "custom" for the end-user. The db BioLock handle allows each authorized user to register a second finger for use "under duress." When this alternate finger is used to gain access to the enclosure, a silent alarm is triggered to let security know the enclosure is open and something is wrong.

db ServerRack, Zero-U*

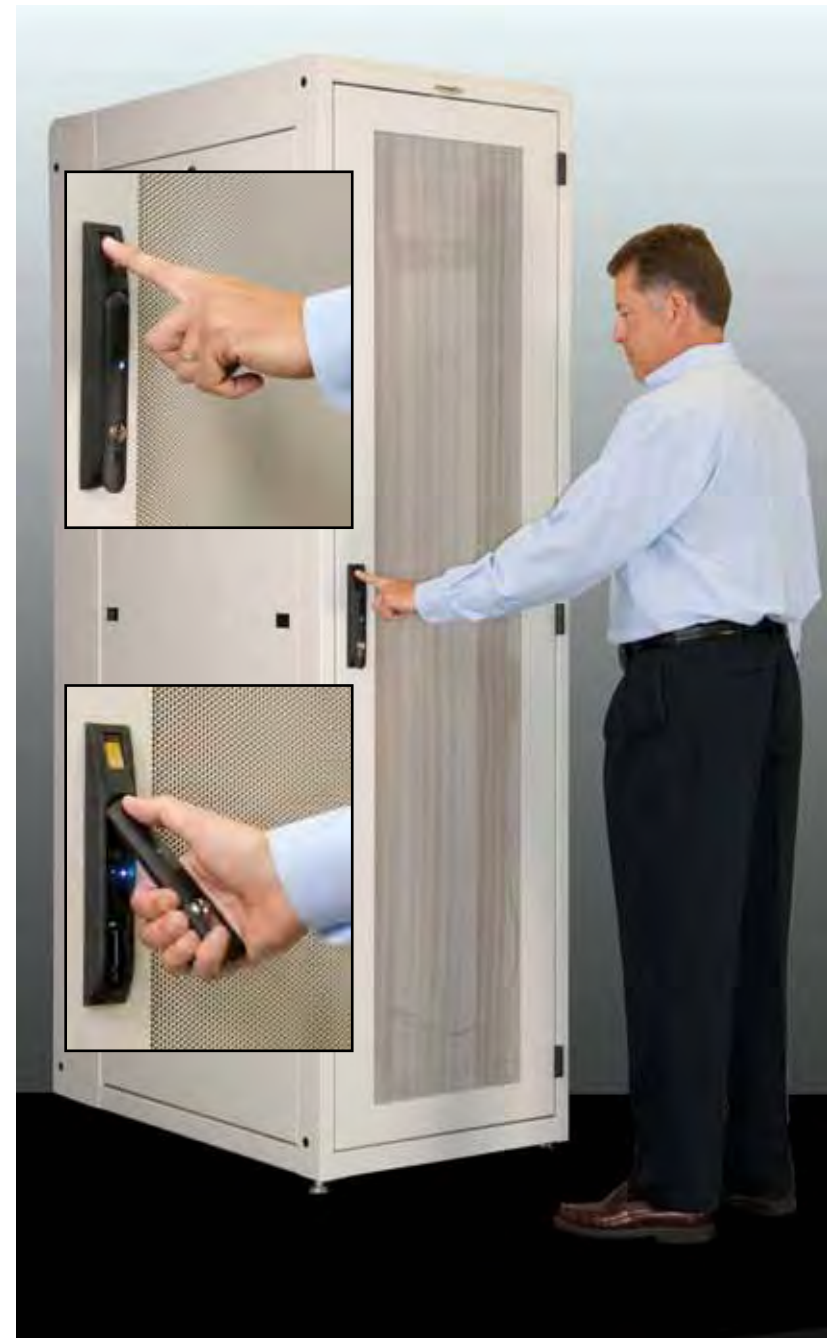
The db ServerRack Zero-U offers all the same features, functions and benefits (except battery back-up) as the db ServerRack 1U, but in a more compact footprint. The control unit mounts to the inside of the cabinet wall with magnets.



db Nexus*

db Nexus delivers biometric access control to building and room doors on the same network platform as db ServerRack. Combine db Nexus and db ServerRack solutions for unified security covering every access point in the data center, from the front door to the cabinet doors.

For more information about the Digitus Biometrics access control solutions, please visit us on the web at WeRackYourWorld.com or call us at 1.866.TRY.GLCC.





SOLID SIDE PANELS

PART NO.	DESCRIPTION
3010-32ELS	Pair Locking Lift-off Solid Side Panels for 30"H x 32"D Frame
4810-32ELS	Pair Locking Lift-off Solid Side Panels for 48"H x 32"D Frame
4810-36ELS	Pair Locking Lift-off Solid Side Panels for 48"H x 42"D Frame
6010-32ELS	Pair Locking Lift-off Solid Side Panels for 60"H x 32"D Frame
7210-32ELS	Pair Locking Lift-off Solid Side Panels for 72"H x 32"D Frame
7210-36ELS	Pair Locking Lift-off Solid Side Panels for 72"H x 36"D Frame
7810-36ELS	Pair Locking Lift-off Solid Side Panels for 78"H x 42"D Frame
8410-32ELS	Pair Locking Lift-off Solid Side Panels for 84"H x 32"D Frame
8410-36ELS	Pair Locking Lift-off Solid Side Panels for 84"H x 36", 42" and 48"D Frame



VENTED SIDE PANELS

PART NO.	DESCRIPTION
3011-32ELL	Pair Locking Lift-off Vented Side Panels for 30"H x 32"D Frame
4811-32ELL	Pair Locking Lift-off Vented Side Panels for 48"H x 32"D Frame
4811-36ELL	Pair Locking Lift-off Vented Side Panels for 48"H x 36"D Frame
6011-32ELL	Pair Locking Lift-off Vented Side Panels for 60"H x 32"D Frame
7211-32ELL	Pair Locking Lift-off Vented Side Panels for 72"H x 32"D Frame
7211-36ELL	Pair Locking Lift-off Vented Side Panels for 72"H x 36"D Frame
7811-36ELL	Pair Locking Lift-off Vented Side Panels for 78"H x 42"D Frame
8411-32ELL	Pair Locking Lift-off Vented Side Panels for 84"H x 32"D Frame
8411-36ELL	Pair Locking Lift-off Vented Side Panels for 84"H x 36", 42", and 48"D Frame



CABINET EXTENTIONS

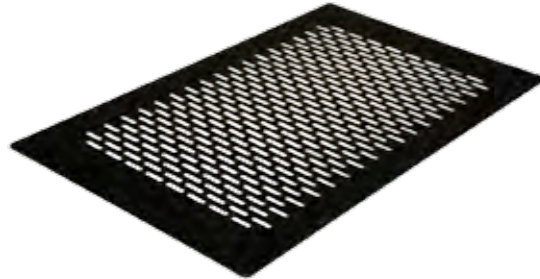
At some point you may decide you need your enclosure to be deeper. We have a solution, our 4" cabinet extensions are available for Great Lakes' E Series enclosures. Easy to install kits come in 4" increments and are stackable to get up to 8" of additional equipment depth on the front, the rear or both, allowing for up to 16" of additional depth.

PART NO.	DESCRIPTION
72E24EXT4	4" Cabinet Extension for GL720E-24 enclosures
72E29EXT4	4" Cabinet Extension for GL720E-29 enclosures
84E24EXT4	4" Cabinet Extension for GL840E-24 enclosures
84E29EXT4	4" Cabinet Extension for GL840E-29 enclosures
PSBKEXT	Powerstrip Mounting Bracket for cabinet extension; allows mounting of a single third party power strip



PART NO.
TPES-S

DESCRIPTION
Solid Top Panel



PART NO.
TPES-P

DESCRIPTION
Perforated Top Panel



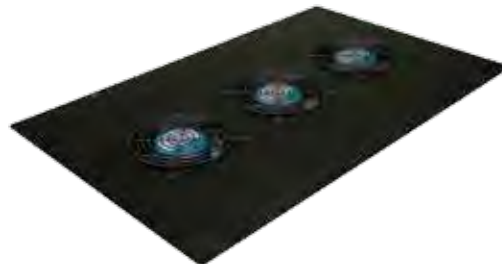
PART NO.
TPES-F10

DESCRIPTION
Top Panel with fan guard and one 10", 550 CFM fan



PART NO.
TPES-2F10

DESCRIPTION
Top Panel with fan guards and two 10", 550 CFM fans



PART NO.
TPES-F

DESCRIPTION
Top Panel with fan guards and three, 75 CFM fans



PART NO.
TPES-B

DESCRIPTION
Top Panel with brush grommet

TOP PANELS FOR E ENCLOSURES

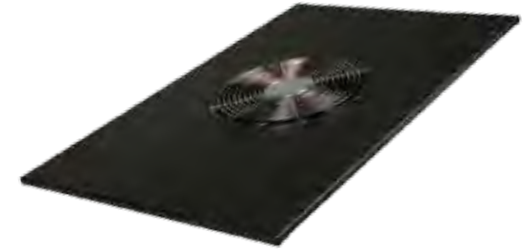
A



- PART NO.**
TPE-24S
- DESCRIPTION**
Solid Top Panel with two 4" horseshoe knockouts for 24"W enclosure
- TPE-29S
- Solid Top Panel with two 4" horseshoe knockouts for 29"W enclosure



- PART NO.**
TPE-24P
- DESCRIPTION**
Perforated Top Panel with two 4" horseshoe knockouts for 24"W enclosure
- TPE-29P
- Perforated Top Panel with two 4" horseshoe knockouts for 29"W enclosure



- PART NO.**
TPE-24F10
- DESCRIPTION**
Top Panel and Fan Assembly with one 10", 550 CFM fan for 24"W enclosure; with two 4" horseshoe knockouts
- TPE-29F10
- Top Panel and Fan Assembly with one 10", 550 CFM fan for 29"W enclosure; with two 4" horseshoe knockouts



- PART NO.**
TPE-242F10
- DESCRIPTION**
Top Panel and Fan Assembly with two 10", 550 CFM fans for 24"W enclosure; with two 4" horseshoe knockouts
- TPE-292F10
- Top Panel and Fan Assembly with two 10", 550 CFM fans for 29"W enclosure; with two 4" horseshoe knockouts



- PART NO.**
TPE-24F
- DESCRIPTION**
Top Panel and Fan Assembly with three, 75 CFM fans for 24"W enclosure; with two 4" horseshoe knockouts
- TPE-29F
- Top Panel and Fan Assembly with three, 75 CFM fans for 29"W enclosure; with two 4" horseshoe knockouts
- FFK2
- Three Fan Filters for use with TPE-24F, TPE-29F and TPES-F



Horseshoe knockouts (available on all tops) allow the removal and interchanging of top panels without interfering with top cable entry.

For Thermostat Controllers, please see page 80 and 81

A BOTTOM PANELS



- PART NO.** BPS24 **DESCRIPTION** Solid Bottom Panel (13"W x 16"D) with Rear Solid Panel for 24"W E Enclosures
- PART NO.** BPS29 **DESCRIPTION** Solid Bottom Panel (13"W x 16"D) with Rear Solid Panel for 29"W E Enclosures
- PART NO.** BP-ES **DESCRIPTION** Solid Bottom Panel only; for use with GL300E, GL480E and GL600E



- PART NO.** BPF24 **DESCRIPTION** Filtered Bottom Panel (13"W x 16"D) with Rear Solid Panel for 24"W E Enclosures
- PART NO.** BPF29 **DESCRIPTION** Filtered Bottom Panel (13"W x 16"D) with Rear Solid Panel for 29"W E Enclosures
- PART NO.** BP-EF **DESCRIPTION** Filtered Bottom Panel only; for use with GL300E, GL480E and GL600E



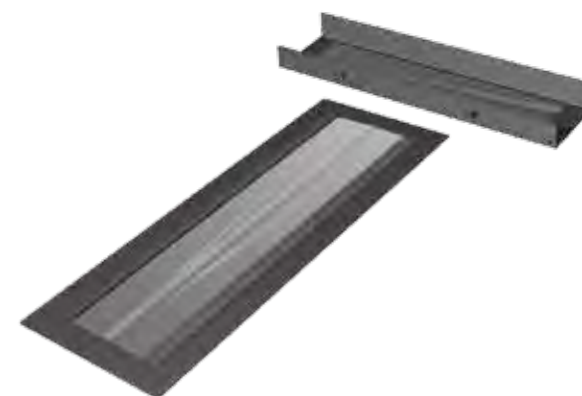
- PART NO.** FILTERE **DESCRIPTION** Replacement Filter, 1"H x 10.5"W x 13.5"D



- PART NO.** BP-ES24B **DESCRIPTION** Rear Solid Bottom Panel for 24"W E Enclosures
- PART NO.** BP-ES29B **DESCRIPTION** Rear Solid Bottom Panel for 29"W E Enclosures



- PART NO.** BPB24 **DESCRIPTION** Brush Grommet with Rear Solid Panel for 24"W E Enclosures
- PART NO.** BPB29 **DESCRIPTION** Brush Grommet with Rear Solid Panel for 29"W E enclosures
- PART NO.** BP-EB **DESCRIPTION** Brush Grommet only; for use with GL300E, GL480E and GL600E



- PART NO.** BPBES2442 **DESCRIPTION** Brush Grommet Bottom Panel assembly for 24"W x 42"D ES Enclosures
- PART NO.** BPBES3042 **DESCRIPTION** Brush Grommet Bottom Panel assembly for 30"W x 42"D ES Enclosures
- PART NO.** BPBES2448 **DESCRIPTION** Brush Grommet Bottom Panel assembly for 24"W x 48"D ES Enclosures
- PART NO.** BPBES3048 **DESCRIPTION** Brush Grommet Bottom Panel assembly for 30"W x 48"D ES Enclosures



M6 MOUNTING RAILS

PART NO.	DESCRIPTION
3005-E2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 30"H enclosure; for 19" mounting
4805-E2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 48"H enclosure; for 19" mounting
6005-E2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 60"H enclosure; for 19" mounting
7205-ES2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 72"H enclosure; for 19" or 23" mounting
7805-ES2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 78"H enclosure; for 19" mounting
8405-ES2P	Pair of EIA Mounting Rails to accept M6 Cage Nuts for 84"H enclosure; for 19" or 23" mounting



#10-32 MOUNTING RAILS

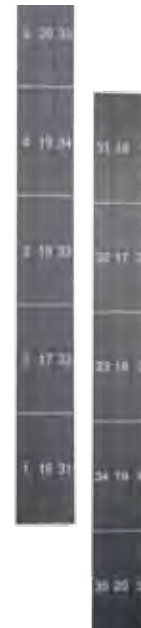
PART NO.	DESCRIPTION
7205-ES1P	Pair of EIA tapped #10-32 Mounting Rails for 72"H enclosure; 19" or 23" mounting
7805-ES1P	Pair of EIA tapped #10-32 Mounting Rails for 78"H enclosure; 19" mounting
8405-ES1P	Pair of EIA tapped #10-32 Mounting Rails for 84"H enclosure; 19" or 23" mounting



REDUCER BRACKETS

PART NO.	DESCRIPTION
2319	Pair of recessed Reducer Brackets, 23" to 19" (8.625"H)
2319-F	Pair of flush Reducer Brackets, 23" to 19" (5.25"H)
2319F1.75	Pair of flush Reducer Brackets, 23" to 19" (1.75"H)

All Reducer Brackets are tapped #10-32



RMU LABELS

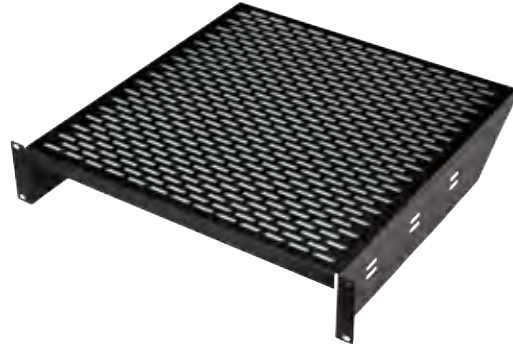
All enclosure mounting rails (whether in an enclosure or purchased separately) are numbered with rack mount units (RMU) for easy installation of equipment. If you have a pair of rails that aren't marked, RMU Labels make any rail as easy as a Great Lakes Rail! Each set of labels has a black powdercoat look and are easy to "peel and stick".

PART NO.	DESCRIPTION
GL-RMUTA	Package of 4 RMU Labels in ascending order (1 on the bottom, 45 on the top)
GL-RMUTD	Package of 4 RMU Labels in descending order (1 on the top, 45 on the bottom)

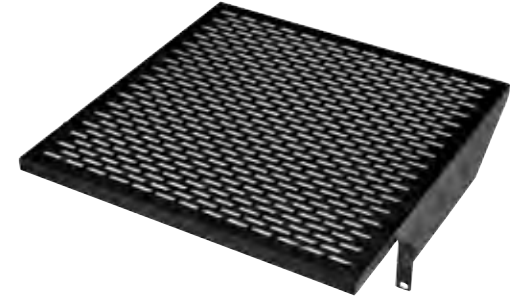
A STATIONARY SHELVES



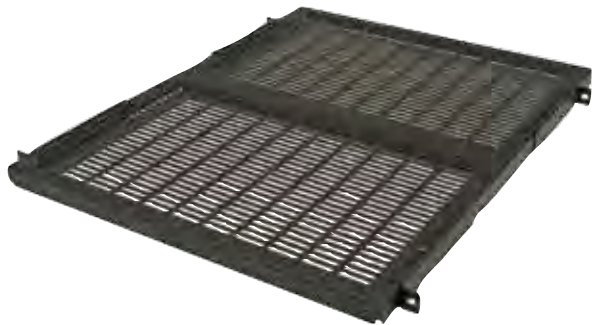
PART NO. 7206-BT
DESCRIPTION Dimensions 17" x 20.75";
 Weight Capacity 300 lbs.; 3 RMU
 Maximum Tab Placement 25.250"



PART NO. 7206-FM
DESCRIPTION Dimensions 17.25"W X 18"D;
 Weight Capacity 60 lbs. ; 2 RMU



PART NO. 7206-EIA
DESCRIPTION Dimensions 17.468"W x 18"D;
 Weight Capacity 80 lbs. ; 2 RMU
 7206-14 Dimensions 17.5"W x 14"D;
 Weight Capacity 80 lbs.; 2 RMU



PART NO. 7206-FR-A18
DESCRIPTION Dimensions 17.5"W x 18"D;
 Weight Capacity 150 lbs.; 1 RMU
 Maximum Tab Placement 21.5"
 7206-FR-AHD Dimensions 17.5"W x 22.25"D;
 Weight Capacity 200 lbs.; 1 RMU
 Maximum Tab Placement 26.125"
 7206-FR-ADHD Dimensions 17.5"W x 27.25"D;
 Weight Capacity 150 lbs.; 1 RMU
 Maximum Tab Placement 32.25"
 7206-FR-A28HD Dimensions 17.5"W x 28"D;
 Weight Capacity 300 lbs.; 1 RMU
 Maximum Tab Placement 30.18"
 7206-FR-A32HD* Dimensions 17.5"W x 32"D;
 Weight Capacity 300 lbs.; 1 RMU
 Maximum Tab Placement 36"

* Fits in 36"D Enclosure



SLIDING SHELVES A



PART NO. 7206-FRSL-AHD **DESCRIPTION** Dimensions 17.5"W x 22"D;
Weight Capacity 110 lbs.; 2 RMU
Maximum Tab Placement 26.125"

7206-FRSL-ADHD Dimensions 17.5"W x 26"D;
Weight Capacity 110 lbs.; 2 RMU
Maximum Tab Placement 32.125"

All weight capacities are determined with shelf pulled out and weight extended



PART NO. 7206-FRSLA300 **DESCRIPTION** Dimensions 14.33"W x 30"D;
Weight Capacity 300 lbs.; 2 RMU
Maximum Tab Placement 36.12"

All weight capacities are determined with shelf pulled out and weight extended



PIVOTING KEYBOARD/MOUSE TRAY

PART NO. 7206-PKB-MT **DESCRIPTION** 20.625"W x 9.5"D;
Weight Capacity 110 lbs.; 3 RMU
Maximum Tab Placement 36.12"

All weight capacities are determined with shelf pulled out and weight extended



PART NO. 7206-SL **DESCRIPTION** Dimensions 16.343"W x 17.5"D;
Weight Capacity 40 lbs.; 3 RMU

**7206-SL sliding shelf use 14" slides rated at 60 lbs.
All weight capacities are determined with shelf pulled out and weight extended*



PART NO. 7206-DR **DESCRIPTION** Dimensions 16"W x 18.875"D;
Weight Capacity 100 lbs.; 4 RMU
Maximum Tab Placement 25.500"

**7206-DR sliding shelf use 16" slides rated at 120 lbs.; drawer is 7"H All weight capacities are determined with shelf pulled out and weight extended*



Shown with optional accessories.

MONITOR/KEYBOARD/MOUSE SHELF

PART NO. 7206-MKM **DESCRIPTION** Dimensions 17"W x 24"D;
Weight Capacity 200 lbs.; 2 RMU
Maximum Tab Placement 36.12"

All weight capacities are determined with shelf pulled out and weight extended

A HARDWARE, CASTERS, & LEVELERS



CAGE NUTS AND SCREWS

PART NO.	DESCRIPTION
HDW-105-25	Package of 25 M6 Cage Nuts with 12mm, M6 screws
HDW-105-50	Package of 50 M6 Cage Nuts with 12mm, M6 screws
HDW-106-25	Package of 25 Cage Nuts with #10-32 x 1/2" screws
HDW-106-50	Package of 50 Cage Nuts with #10-32 x 1/2" screws



#10-32 AND #12-24 SCREWS

PART NO.	DESCRIPTION
HDW-102-50	Package of 50 Pan Head Phillips #10-32 x 1/2" screws
HDW-104-50	Package of 50 Pan Head Phillips #12-24 x 1/2" screws



GANGING KIT

PART NO.	DESCRIPTION
G101	Ganging/Networking Kit for E Enclosures; no tools required
G101ES	Ganging/Networking Kit for E Enclosures; no tools required



SEISMIC ANCHOR KIT

PART NO.	DESCRIPTION
AK101	Seismic Anchor Kit (includes 4 torque controlled expansion anchors)

Seismic qualifications tested in accordance with ACI 355.2 and ICC-ES AC 193; Meets ductility requirements of 318 D.3.3



Non-locking

Locking

E CASTERS

PART NO.	DESCRIPTION
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EALL	One set of 4 Casters, all locking
7208-EHD	One set of four Heavy Duty Casters, all locking



Non-locking

NON-LOCKING ES CASTERS

PART NO.	DESCRIPTION
7208-ES	One set of 4 Casters, all non-locking



LEVELERS

PART NO.	DESCRIPTION
7209-N	One set of 4 adjustable levelers, 2.5"H
7209-N4	One set of 4 adjustable levelers, 4"H



ANTI-TIP LEGS

PART NO.	DESCRIPTION
AT1	Anti-tip Legs for ES enclosures
AT2	Anti-tip Legs for E enclosures



GROUNDING KITS

PART NO.	DESCRIPTION
GR101	Grounding Kit for enclosures; includes six flat tinned braided copper ground straps, 53 amp capacity
GR102	Grounding Kit for use with WM, WS, WD and WE wall mounts



COPPER BUS BARS

PART NO.	DESCRIPTION
CBB-19	Bus Bar for 19" mounting
CBB-30	Bus Bar for the GL300E enclosure
CBB-48	Bus Bar for 48"H enclosures
CBB-60	Bus Bar for 60"H and 72"H enclosures
CBB-72	Bus Bar for 78"H and 84"H enclosures

All Bus Bars are isolated.



TINNED COPPER BUS BAR

PART NO.	DESCRIPTION
RGB-78	Tinned Copper Ground Bus Bar, 78"H; to be installed prior to any equipment; fits over existing EIA holes; recommended for use with two and four post racks



PDU MOUNTING BRACKET

PART NO.	DESCRIPTION
PSBKE	Set of two Power Strip Mounting Brackets to allow vertical mounting of single PDU; for E Series Enclosures



MOUNTING BRACKETS

PART NO.	DESCRIPTION
PDU1	Set of two Mounting Brackets to allow vertical mounting of any 1 RMU equipment (such as power strips) without occupying any RMU space; for 30" W ES and 29"W E Series Enclosures

Please see fold-out after page 22 for demonstration of this product



MOUNTING BRACKETS

PART NO.	DESCRIPTION
ZR1	Set of two mounting brackets to allow the vertical mounting of any 1 RMU equipment (such as cable organizers) without occupying any RMU space; brackets mount to the Flexible Mounting Profile of Great Lakes rails; for 29"W E and 30"W ES Enclosures
ZR2	Same as above except allows vertical mounting of any 2 RMU equipment

A POWER

Great Lakes standard power strips (listed to the right) are in stock and available for immediate delivery. Power Strips can be purchased with an enclosure and installed, or shipped separately.

Great Lakes also offers the widest selection of custom, intelligent Power Distribution Units (PDUs) in the enclosure industry. PDUs can be ordered and installed inside of your enclosure or shipped individually. Lead-time on custom PDUs is 7-10 working days.

When ordering a custom PDU, the following information is required:













- Amperage
- Voltage (120, 240, 3~)
- Receptacle Type and Quantity
- Plug Type
- Cord Length

Additional information may include digital display (metered), remote monitoring, remote control of outlets and environmental monitoring.










Page 116-117 will help you find the right PDU for your needs. Visit www.werackyourworld.com to download an Electrical Configuration Order Form (as seen on page 116).

All standard power strips are UL Listed and are supplied with a circuit breaker and 15' cord (unless otherwise noted).










15 & 20 AMP, 125 VOLT POWER STRIPS FOR 19" MOUNTING

Part Number	Number of Receptacles	Number of Type	Receptacle Diagram	Receptacle Type	Plug Diagram	Plug	Surge
7219		6		5-15R			
7219-SR14		6 front/8 back		5-15R			✓
7219-20AR		6		5-20R			
7219-20ARTLP		6		5-20R			


15 AMP, 125 VOLT POWER STRIPS FOR VERTICAL MOUNTING

Part Number	Number of Receptacles	Number of Type	Receptacle Diagram	Receptacle Type	Plug Diagram	Plug	Surge
7215		16		5-15R			
7215-S		16		5-15R			✓
7218-24		8		5-15R			

20 & 30 AMP, 125 VOLT POWER STRIPS FOR VERTICAL MOUNTING

Part Number	Number of Receptacles	Number of Type	Receptacle Diagram	Receptacle Type	Plug Diagram	Plug	Surge
7215-20ARTLP		16		5-20R			
7215-20AR		16		5-20R			
7215-30A		24		5-20R			



































EURO, 250 VOLT POWER STRIP *(Power strip comes with a 9' 10" cord; please call for availability)*

Part Number	Number of Receptacles	Number of Type	Receptacle Diagram	Receptacle Type	Plug Diagram	Plug	Surge
7215-EURO		12		Schuko			

POWER - ELECTRICAL CONFIGURATION





















A

NEMA

AMP	VOLT	STRAIGHT-BLADE PLUG	STRAIGHT-BLADE RECEPTACLE	AMP	VOLT	STRAIGHT-BLADE PLUG	STRAIGHT-BLADE RECEPTACLE
15	125	5-15P 	5-15R 	20	250	6-20P 	6-20R 
20	125	5-20P 	5-20R 				
AMP	VOLT	TWIST-LOCK PLUG	TWIST-LOCK RECEPTACLE	AMP	VOLT	TWIST-LOCK PLUG	TWIST-LOCK RECEPTACLE
15	125	L5-15P 	L5-15R 	20	120/208 x 3~ WYE	L21-20P 	L21-20R 
20	125	L5-20P 	L5-20R 	20	230/400 x 3~ WYE	L22-20P 	L22-20R 
30	125	L5-30P 	L5-30R 	30	120/208 x 3~ WYE	L21-30P 	L21-30R 
20	250	L6-20P 	L6-20R 	30	230/400 x 3~ WYE	L22-30P 	L22-30R 
30	250	L6-30P 	L6-30R 	30	250 x 3~ DELTA	L15-30P 	L15-30R 
20	125/250	L14-20P 	L14-20R 	AMP	VOLT	CALIFORNIA STYLE	
30	125/250	L14-30P 	L14-30R 	50	250	2P, 3W 	2P, 3W 
				50	250 x 3~ DELTA	3P, 4W 	3P, 4W 

NEMA

IEC

AMP	VOLT	POWER INLET	POWER RECEPTACLE	AMP	VOLT	POWER INLET	POWER RECEPTACLE
15/10*	125 or 250	C-14 	C-13 	20/16*	125 or 250	C-20 	C-19 
AMP	VOLT	PIN & SLEEVE		AMP	VOLT	PIN & SLEEVE	
20/16*	250/230*	2P, 3W 	2P, 3W 	60/63*	250/230*	2P, 3W 	2P, 3W 
20	250	3P, 4W 	3P, 4W 	60	250	3P, 4W 	3P, 4W 
30/32*	250/320*	2P, 3W 	2P, 3W 	20/16*	230/400* x 3~ WYE	4P, 5W 	4P, 5W 
30	250	3P, 4W 	3P, 4W 	30/32*	230/400* x 3~ WYE	4P, 5W 	4P, 5W 

*Rating for CE products

IEC

A POWER - ELECTRICAL CONFIGURATION

POWER INPUT			
QTY.**	PLUG TYPE	INPUT AMPS	INPUT VOLTS
	5-15P	15	120
	L5-15P	15	120
	5-20P	20	120
	L5-20P	20	120
	6-20P	20	208
	L6-20P	20	208
	L14-20P	20	120/208
	L21-20P	20x3~	120/208 WYE
	L22-20P	20x3~	230/400 WYE
	L5-30P	30	120
	L6-30P	30	208
	L14-30P	30	120/208
	L15-30P	30x3~	208 DELTA
	L21-30P	30x3~	120/208 WYE
	L22-30P	30x3~	230/400 WYE
	Cal. Style 2 Pole/3 Wire	50	208
	Cal. Style 3 Pole/4 Wire	50x3~	2508 DELTA
	IEC C-14 Inlet (no cord)	15/10*	120 or 208/230*
	IEC C-20 Inlet (no cord)	20/16*	120 or 208/230*
	IEC Pin & Sleeve 2 Pole/3 Wire	20/16*	208/230*
	IEC Pin & Sleeve 3 Pole/4 Wire	20x3~	208 DELTA
	IEC Pin & Sleeve 2 Pole/3 Wire	30/32*	208/230*
	IEC Pin & Sleeve 4 Pole/5 Wire	20/16*x3~	230/400 WYE*
	IEC Pin & Sleeve 4 Pole/5 Wire	30/32*x3~	230/400 WYE*
	IEC Pin & Sleeve 3 Pole/4 Wire	30x3~	208 DELTA
	IEC Pin & Sleeve 2 Pole/3 Wire	60/63*	208/230*
	IEC Pin & Sleeve 3 Pole/4 Wire	60x3~	208 DELTA

POWER OUTPUT			
QTY.	RECEPTACLE TYPE	INPUT AMPS	INPUT VOLTS
	5-15R Duplex	15	120
	5-15R Individual	15	120
	L5-15R Duplex	15	120
	5-20R Duplex	20	120
	5-20R Individual	20	120
	L5-20R	20	120
	6-20R Duplex	20	208
	L6-20R	20	208
	L5-30R	30	120
	L6-30R	30	208
	IEC C-13	15/10*	120 or 208
	IEC C-19	20/16*	120 or 208
	Other - Please Specify		
PHYSICAL CONFIGURATION			
DIMENSIONAL LIMITS		MOUNTING ORIENTATION	
	Length		Horizontal
	Width		Vertical
	Height		
CORD LENGTH			
	Length in feet		
ADDITIONAL INFORMATION (NOTES)			

POWER SWITCH	
	No
	Yes
	Yes - With Cover
SURGE SUPPRESSION	
	No
	Yes
LOCAL CURRENT MONITORING	
	No
	Yes - Current (Amps) Only
REMOTE CURRENT MONITORING	
	No
	Yes, Circuit Level
	Yes, Outlet Level
CIRCUIT BREAKERS	
	No (required by NEC in some units)
	Yes
ENVIRONMENTAL MONITORING	
	No
	Yes
REMOTE SWITCHING	
	No
	Yes
3RD PARTY TESTING COMPLIANCE	
	UL Listed
	FCC Part 15 Class A
	CE
	Other - Please Specify
	None Required

This worksheet is available to help you find the appropriate PDU for your needs. It can be downloaded from WeRackYourWorld.com. Please call 1.866.TRY.GLCC for assistance.

*Rating for CE products
**Quantity = # of circuits

KOLDLOK® RAISED FLOOR GROMMETS

A



KOLDLOK® RAISED FLOOR GROMMETS*

Floor Grommets are designed to seal a variety of existing or new raised floor tile cutouts allowing the flexibility to remove tiles without capturing cables. Grommets increase static pressure and improve cool air delivery through perforated tiles and floor grates.



PART NO.
GLKL3030CP

DESCRIPTION
Split Integral Raised Floor Grommet to seal openings 9.25" x 6.75"; pack of 10



PART NO.
GLKL2020CP

DESCRIPTION
Split Surface Mount Raised Floor Grommet to seal openings 10" x 7.25" or less; pack of 10



PART NO.
GLKL10077CP

DESCRIPTION
Split Mini Raised Floor Grommet to seal openings 4" x 6"; pack of 10



PART NO.
GLKL20100CP

DESCRIPTION
Wave Split Integral Floor Grommet to seal 7 3/4" x 5 7/8" openings; pack of 10



PART NO.
GLKL20101CP

DESCRIPTION
Cover for Wave Split Integral Floor Grommet; pack of 10



PART NO.
GLKL10012CP

DESCRIPTION
Extended Raise Floor Grommet for sealing perimeter openings, 3 in.; pack of 10

GLKL10013CP

DESCRIPTION
Extended Raise Floor Grommet for sealing perimeter openings, 6"; pack of 10

A FILLER PANELS



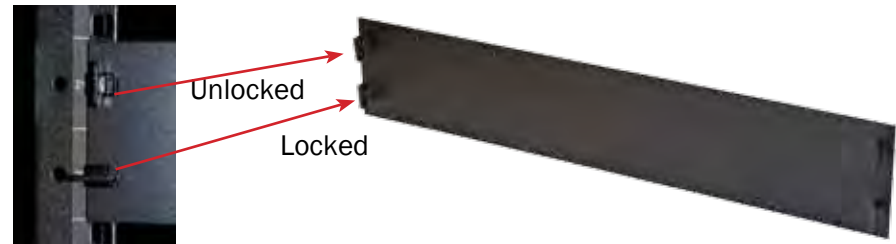
PLASTIC FILLER PANELS BY UPSITE TECHNOLOGIES*

PART NO.	DESCRIPTION
GLHL10031CP	Pack of ten, 1 RMU snap-in panels, 19" mounting for use with M6 and #12-24 rails
GLHL10035CP	Pack of ten, 1 RMU snap-in panels with temperature strip, 19" mounting for use with M6 and #12-24 rails
GLHL0033CP	Pack of five, 2 RMU snap-in panels, 19" mounting for use with M6 and #12-24 rails
GLHL0038CP	Pack of five, 2 RMU snap-in panels with temperature strip, 19" mounting for use with M6 and #12-24 rails
GLHL10009CP	Pack of ten temperature strips



FILLER PANELS WITH BRUSH GROMMET

PART NO.	DESCRIPTION
1.75FP19BG	1 RMU Filler Panel with brush grommet to allow cable pass through
3.50FP19BG	2 RMU Filler Panel with brush grommet



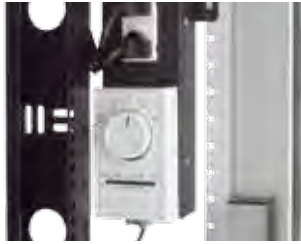
FILLER PANELS FOR 19" MOUNTING

PART NO.	DESCRIPTION
1.75-FP19	1.75"H, 1 RMU
3.50-FP19	3.50"H, 2 RMU
5.25-FP19	5.25"H, 3 RMU
7.00-FP19	7.00"H, 4 RMU
8.75-FP19	8.75"H, 5 RMU
14.00-FP19	14.00"H, 8 RMU

TOOL-LESS FILLER PANELS FOR 19" MOUNTING

PART NO.	DESCRIPTION
1.75-FPTL19	1.75"H, 1 RMU, for use with M6 rails
3.50-FPTL19	3.50"H, 2 RMU, for use with M6 rails
5.25-FPTL19	5.25"H, 3 RMU, for use with M6 rails
7.00-FPTL19	7.00"H, 4 RMU, for use with M6 rails
8.75-FPTL19	8.75"H, 5 RMU, for use with M6 rails
14.00-FPTL19	14.00"H, 8 RMU, for use with M6 rails

Additional sizes as well as filler panels for 23" mounting are available. Please call 1.866.TRY.GLCC for details.



FAN THERMOSTAT CONTROLLER

PART NO.	DESCRIPTION
FTC101	Fan Thermostat Controller with 6' cord; consists of 15 amp duplex outlets, 50° to 90°F/10° to 30°C temperature range, UL Listed and CSA Certified



RACSENSE® VARIABLE SPEED FAN CONTROLLER*

The RacSense® Variable Speed Fan Controller takes real-time temperature measurements and automatically adjusts the fan speed accordingly to protect your equipment. The 1 RMU controller features web accessible remote monitoring and maintenance with instant notification alarms; dual A/C input; ability to connect up to four temperature probes. For complete specifications please visit WeRackYourWorld.com

PART NO.	DESCRIPTION
FTC102	RacSense® variable speed fan controller
PC13-515P	Power cord for fan controller (125V)
PC13-C14	Power cord for fan controller (125/250V)
GLST-12	Temperature Sensor with 12' cord



PART NO.	DESCRIPTION
7217FT	Fan Assembly with Fan Guards and three 75 CFM Fans, 2 RMU
FTBKT90	Fan Bracket to mount 7217FT at 90° angle



PART NO.	DESCRIPTION
7217FT-3	Fan Tray (front/rear mount adjustable) with Fan Guards and three 75 CFM Fans, 2 RMU
7217FT-6	Fan Tray (front/rear mount adjustable) with Fan Guards and six 75 CFM Fans, 2 RMU
7217FT-9	Fan Tray (front/rear mount adjustable) with Fan Guards and nine 75 CFM Fans, 2 RMU

Standard fan trays are 120V and available in black only. For custom fan trays or 220V trays, please call 1.866.TRY.GLCC for details.

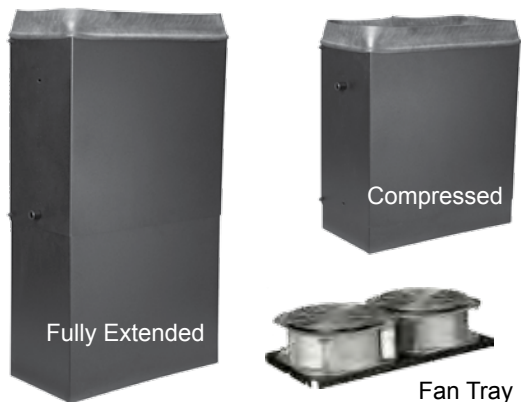


PART NO.	DESCRIPTION
7217ECS	Rack mount, 250 CFM enclosure blower, 2 RMU, UL Listed; Visit werackyourworld.com for complete specifications
7217ECS-F12	Package of 12 filters for 7217ECS
7217ECS-FA	Filter Assembly for 7217ECS



PART NO.	DESCRIPTION
7217LE2	Fan Assembly with fan guards and two 75 CFM fans; to be mounted to a 24"W mesh contour door
7217LE3	Fan Assembly with fan guards and three 75 CFM fans; to be mounted to a 29"W mesh contour door

A EXHAUST CHIMNEY & AIR MANAGER



ADJUSTABLE EXHAUST CHIMNEYS

Great Lakes Exhaust Chimney, serves as a duct that assists in the removal of hot air from ES Series enclosures. This process of directing and removing exhaust air can be accelerated through the use of a chimney fan tray.

PART NO.	DESCRIPTION
GL-ECHF-48-1832	High Flow Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-ECHF-48-3246	High Flow Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECHFFT48	High Flow Fan tray for 48"D enclosure, 2260 CFM
GL-EC-48-1832	Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-48-3246	Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT48	Fan tray for 48"D enclosure, 1200 CFM
GL-EC-42-1832	Chimney for 42"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Chimney for 42"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Fan tray for 42"D enclosure, 1200 CFM



OPENGATE CHIMNEY ADAPTER

Opengate Chimney Duct Systems have the ability to extract up to 30kW of heat from a single cabinet or a group of cabinets. The unit, which makes adjustments for varying heat demands, is comprised of fans and control modules that are "hot-swappable" for redundancy and ease of maintenance. The system also provides: monitoring, historical trending, capacity, temperature and system status.

A Chimney Adapter allows the Opengate Chimney to be used with Great Lakes E and ES Series enclosures. The adapter creates a secure attachment from chimney to enclosure.

For more information on the Opengate product, please visit opengatedata.com

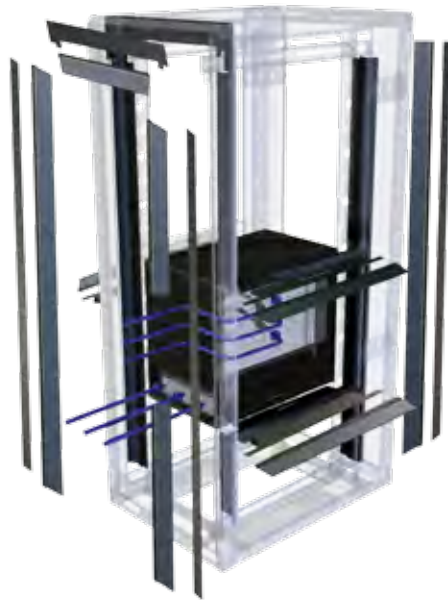
PART NO.	DESCRIPTION
OGE24	Adapter for 24"W E Series
OGE29	Adapter for 29"W E Series
OGES2442	Adapter for 24"W x 42"D ES Series
OGES3042	Adapter for 30"W x 42"D ES Series
OGES2448	Adapter for 24"W x 48"D ES Series
OGES3048	Adapter for 30"W x 48"D ES Series



AIR MANAGER

The Adjustable Air Manager mounts to the bottom of an ES Series enclosure, "managing" the flow of conditioned air into the enclosure. An adjustable slide allows the amount of air to be adjusted as necessary, while maintaining raised floor pressure throughout the data center. This process can be further enhanced with use of a fan tray. The Air Manager mounts to the bottom unit of rack space.

PART NO.	DESCRIPTION
AM-HFES	High Flow Air Manager Assembly, 19" EIA, for 78"H and 84"H ES Enclosures
AM-HFFTES24	High Flow Air Manager Fan Tray, for 24"W Enclosure, 940 CFM
AM-HFFTES30	High Flow Air Manager Fan Tray, for 30"W Enclosure, 940 CFM
AM-ES	Air Manager Assembly, 19" EIA, for 78"H and 84"H ES Enclosures
AM-FTES24	Air Manager Fan Tray, for 24"W Enclosure, 600 CFM
AM-FTES30	Air Manager Fan Tray, for 30"W Enclosure, 600 CFM



SIDE AIR FLOW PLENUM KITS

The design of many types of rack mounted equipment requires the flow of cooled air and heated exhaust to move from side to side, instead of (or in addition to) the traditional "front-to-back". The Side Air Flow Plenum Kit utilizes brush grommet to create multiple air dams to direct cool air into the equipment and assist in the removal of heat exhaust. For 30"W ES Enclosures.

PART NO.	DESCRIPTION
SAFPL	Side Air Flow Plenum Kit; two full length vertical air-dams with brackets, two sectional vertical air dams with brackets, three horizontal air dams (for air channels), and assembly hardware
SAFPLM	To be used with SAFPL for one additional CISCO® Switch



weRack your World!

BAFFLE KITS FOR SIDE-TO-SIDE AIRFLOW EQUIPMENT

Baffle Kits create proper airflow for switches, and side-to-side airflow equipment, as suggested by manufactures such as CISCO. Cool air is channeled into the equipment along the right side and exhaust air is directed out along the left side of the equipment. Kits are tool-less and easily attach to rails outside of the EIA mounting profile. Kits (available for 19, 14, and 11 RMU equipment) are unique to EN and ES enclosures, creating the perfect fit between switch and enclosure!
 Please see chart on page 37 to ensure baffle kit and equipment are compatible.

BAFFLE KITS FOR EN-3242 ENCLOSURE

PART NO.	DESCRIPTION
ENSAB19	Baffle Kit for use with 15.8"D to 18.5"D, 19 RMU CISCO and other side-to-side airflow equipment
ENSAB14	Baffle Kit for use with 15.8"D to 18.1"D or 18.4"D, 14 RMU CISCO and other side-to-side airflow equipment
ENSAB14D	Baffle Kit for use with 25.7"D to 28"D, 14 RMU, CISCO and other side-to-side airflow equipment
ENSAB11	Baffle Kit for use with 15.8"D to 18.1"D, 11 RMU CISCO and other side-to-side airflow equipment

BAFFLE KITS FOR 30"W ES ENCLOSURES

ESSAB19	Baffle Kit for use with 15.8"D to 18.5"D, 19 RMU CISCO and other side-to-side airflow equipment
ESSAB14	Baffle Kit for use with 15.8"D to 18.1"D or 18.4"D, 14 RMU CISCO and other side-to-side airflow equipment
ESSAB14D	Baffle Kit for use with 25.7"D to 28"D, 14 RMU, CISCO and other side-to-side airflow equipment
ESSAB11	Baffle Kit for use with 15.8"D to 18.1"D, 11 RMU CISCO and other side-to-side airflow equipment

A BRUSH GROMMET & AISLE DOORS



BRUSH GROMMET KITS

Brush Grommet Kits help to direct conditioned air and restrict hot air from recirculating throughout an enclosure. The grommet is quickly installed with tool-less hardware and mounts directly to the rails of Great Lakes enclosures.

PART NO.	DESCRIPTION
BGRK24	Kit for 24"W x 78" and 84"H enclosures
BGRK30	Kit for 30"W x 78" and 84"H enclosures

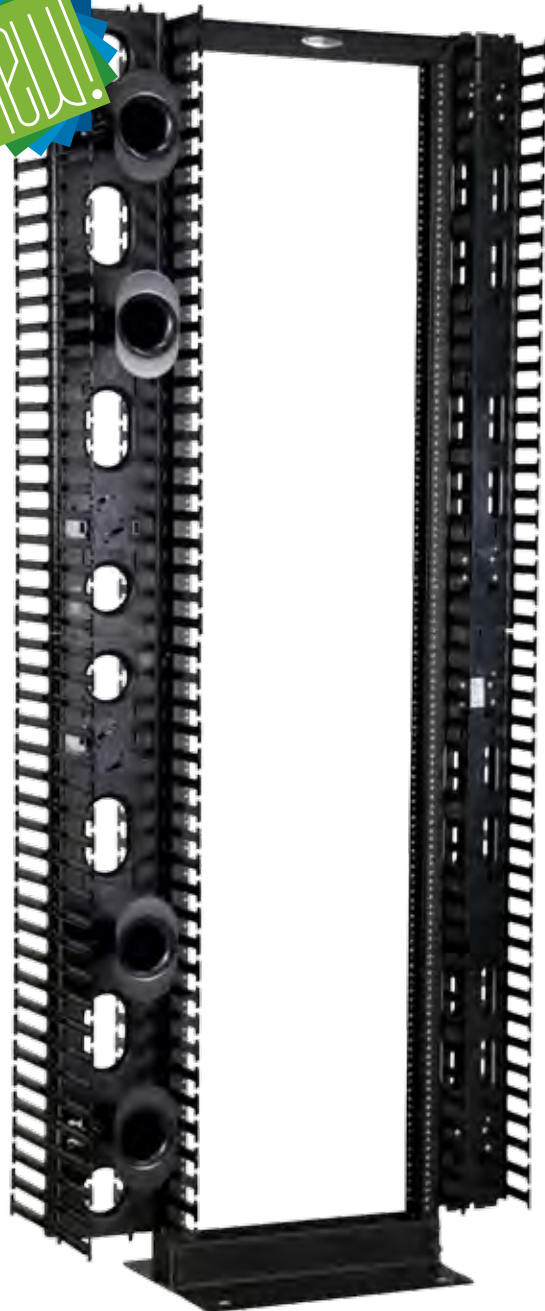


AISLE CONTAINMENT DOORS

Today's data center manager must often find new ways to grow the facility in its existing "footprint." Using a "containment" strategy to capture as much conditioned air or to isolate and exhaust as much hot air as possible within the data center space; containment can be achieved with Aisle Containment Doors.

Great Lakes Aisle Containment doors are designed to accommodate standard 84" and 78"H ES enclosures in aisle widths from 48"-72". The doors are mounted with a trolley assembly to rail which spans the aisle and attaches to the enclosure at the end of the row. The doors do not require a bottom track, so there are no obstructions in the aisle way.

PART NO.	DESCRIPTION
ACD840ES	Aisle Containment Doors for 84"H ES Enclosure; supports aisle width of 48" to 72"
ACD780ES	Aisle Containment Doors for 78"H ES Enclosure; supports aisle width of 48" to 72"



VERTICAL CABLE ORGANIZERS

PART NO.	DESCRIPTION
VCM8-FR	Vertical Front & Rear Cable Management, 8" Channel x 80"L; includes 2 spools, 2 wire retainers, and black hinge cover
VCM8-FO	Vertical Front Cable Management, 8" Channel x 80"L; includes 1 spool, 1 wire retainer, and black hinge cover
VCM5-FR	Vertical Front & Rear Cable Management, 5" Channel x 80"L, and black snap-on cover
VCM5-FO	Vertical Front Cable Management, 5" Channel x 80"L, and black snap-on cover

ACCESSORIES FOR VERTICAL CABLE ORGANIZERS

PART NO.	DESCRIPTION
VCM8-SL	Pack of two, Duct Slack Loop Cable Spools, for 8" channel only
VCM8-WR	Pack of six Wire Retainers, for 8" channel only
VCM8-BKT	Pack of two brackets to secure 8" channel to a second rack (when channel is between two racks)
VCM5-SL	Pack of two Duct Slack Loop Storage Organizers, for 5" channel only
VCM5-CR	Pack of ten Cable Retainers, for 5" channel only
VCM5-HNG	Duct Cover Hinge Kit; eliminates need to completely remove cover; for 5" channel only



VCM8-SL



VCM8-WR



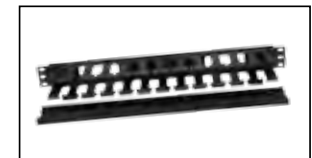
VCM5-SL



VCM5-HNG

19" CABLE ORGANIZERS

PART NO.	DESCRIPTION
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU, 1.5" x 3"
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU, 1.5" x 3"
CM-17	Single-sided Cable Organizer with plastic fingers and covers, 2 RMU, 3" x 3"



A CABLE MANAGEMENT MADE EASY



Great Lakes cable management accessories can be used alone or together to create a complete solution for the equipment in your enclosure. The specific accessories pictured can be used in any 30"W ES server enclosure; multiple patch panels and a CISCO® 6500 Series Switch are installed in the pictured enclosure. Each accessory "family" varies in its size, shape, material, or features...choose the one based on your needs! While most accessories are compatible with ES and E Series Enclosures, please note that some parts are intended for ES enclosure use only.

1. OVERHEAD CABLING - page 126

LRB, Ladder Rack Brackets & TCT, Top Cable Trough

- Facilitate the flow of cable in and out of the enclosure
- No overhead infrastructure changes needed
- Strength of enclosures can easily handle multiple bundles

2. CABLE RINGS - CM-11, Cable Ring Kit (5 rings) - page 126

- 3"W x 5"D rings support large bundles
- Mounts to rails without interfering with EIA pattern
- Rings can be used alone, or all 5 create a "virtual" cable trough

3. 19" CABLE ORGANIZERS - CM-16 - page 127

- 1 RMU Plastic Organizer
- Helps organize and direct cables between patch panels
- 1.5" x 3" channel
- Covers hide cables to provide protection

4. CABLE MANAGEMENT POST - page 126

CMP, Single Post or CMP-8, package of 8

- 3" post creates separate pathways for large bundles
- Mounts to rails without interfering with EIA pattern

5. TOOL-LESS FILLER PANELS - 3.50-FPTL19, - page 118

- Prevents by-pass airflow
- Used to "save" RMU space for future patch panels and equipment
- Quick to install and uninstall
- For M6 rails only
- For complete list of part numbers, visit werackyourworld.com

6. BAFFLE KIT - page 121

ESSAB14, Intake/Exhaust Kits for side-to-side airflow equipment

- Directs cool air in and exhaust air out of side-to-side air flow equipment
- Easily mounts to rails with no tools
- Kits available for 11, 14 and 19 RMU side-to-side airflow equipment

7. BRUSH GROMMET - BGT - page 129, Top Brush Grommet Kit

- Allows cables to pass overhead while "isolating" airflow

8. EXTERNAL CABLE MANAGER - SC128442 - page 129

- Complete dimensions 84"H x 12"W x 42"D
- Two adjustable, vertical troughs (front and rear)
- Fingers easily pass cables from enclosure to "side car"
- Repositionable cable management posts create separate pathways for large bundles
- Large openings to run cable front to rear
- Multiple attachment points for cable straps

9. BOTTOM CABLE ACCESS - page 117

Bottom Cable Opening and Floor Grommets

- Large cable bundles easily pass through bottom of enclosure
- Brush Grommet Bottom Panel (not pictured) available to "isolate" airflow
- Koldlok® raised floor grommets seal floor tile cutouts while allowing cables to pass through

10. WATERFALL CABLE MANAGER - CM-07 - page 127

- Routes cables horizontally across the enclosure
- 1 RMU
- Creates a safe bend radius

11. VERTICAL ORGANIZERS - VCT-84 - page 129

- Safely routes bundles vertically in the enclosure
- Up to 2 (in 42"D enclosure) or 3 (in 48"D enclosure) fit in each rear corner of enclosure
- Can also be installed in front of enclosure (with horizontal lacing bars)
- 3"W x 2.5"D trough
- Optional cover to protect cable

12. STRAIN RELIEF BARS - CM-10 - page 128,

- Provides support for cables across the enclosure
- Attachment points for cable straps

13. LACING BARS - VLB-8436 - page 130,

- Vertical bar fully adjustable front to rear
- Horizontal bars can be placed in any necessary location
- Horizontal & vertical slots as attachment point for cable straps
- Bars are 4" wide

14. HORIZONTAL TROUGH - HCM-D36 - page 129

- Route larger bundles from front to rear
- Can be placed in any vertical location (when not used with VLB-8436 on same side of enclosure)

15. MOUNTING BRACKETS - ZR1 or ZR2 - page 113

- Vertically mount 1 or 2 RMU wide equipment without taking up RMU space
- Up to an additional 6 RMU of equipment can be mounted on each rail

A CABLE RINGS & OVERHEAD CABLING



CABLE MANAGEMENT POST

PART NO.	DESCRIPTION
CMP	Single Cable Management Post, 3"H
CMP-8	Package of 8 Cable Management Posts



CABLE RING

PART NO.	DESCRIPTION
CM-13	Single Cable Ring, inner dimensions 1.06"W x 2.8"D



CABLE RING

PART NO.	DESCRIPTION
CM-44	Single Cable Ring, inner dimensions 3.8"W x 3.8"D



CABLE RING

PART NO.	DESCRIPTION
CM-425	Heavy Duty Cable Ring, inner dimensions 2.3"W x 3.8"D; for use with two and four post racks with aluminum uprights



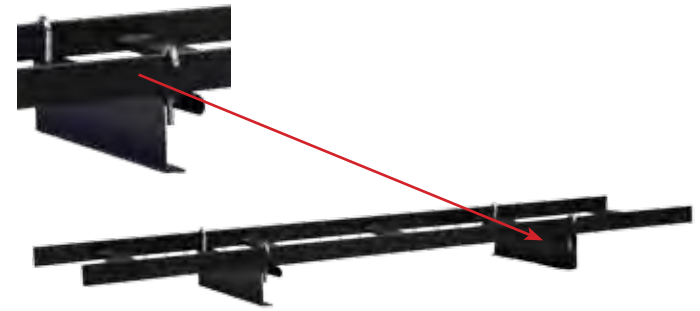
CABLE RING

PART NO.	DESCRIPTION
CM-11	Cable Management Ring Kit, includes five rings, inner dimensions 3"W x 5."D; for use with 29"W E and 30"W ES Enclosures



TOP CABLE TROUGHS

PART NO.	DESCRIPTION
TCT24	Top Cable Trough with hardware for 24"W ES Enclosures; 6.5"W x 4"D x 24"L
TCT30	Top Cable Trough with hardware for 30"W ES Enclosures; 6.5"W x 4"D x 30"L



LADDER RACK BRACKETS

PART NO.	DESCRIPTION
LRB-12	Single Ladder Rack Bracket with hardware; to support 12"W ladder rack; for ES Enclosures only
LRB-24	Single Ladder Rack Bracket with hardware; to support 18.00"W and 24"W ladder rack; for ES Enclosures only

CABLE ORGANIZERS A



PART NO.
CM-16

DESCRIPTION
Single-sided Cable Organizer with plastic fingers and cover, 1 RMU

CM-17

Single-sided Cable Organizer with plastic fingers and cover, 2 RMU



PART NO.
CM-15

DESCRIPTION
Double-sided Cable Organizer with plastic fingers and covers, 2 RMU



PART NO.
CM-07

DESCRIPTION
Waterfall Cable Organizer, 1 RMU



PART NO.
CM-04

DESCRIPTION
Interbay Cable Organizer, 4 front horizontal rings (3.25" x 2.8"D), 2 RMU



PART NO.
CM-05

DESCRIPTION
Single-sided Cable Organizer, 5 front horizontal rings (1.3" x 2.8"D), 1 RMU



PART NO.
CM-08

DESCRIPTION
Standard Front Cable Organizer, 4 horizontal and 4 vertical rings (1.4" x 3"D), 2 RMU



PART NO.
CM-09

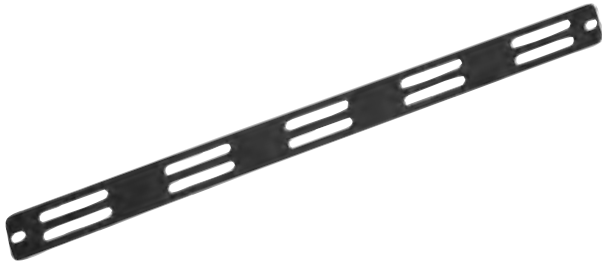
DESCRIPTION
Double-sided Cable Organizer, 4 front horizontal and 5 rear vertical rings (1.3" x 2.8"D), 1 RMU



PART NO.
CM-14

DESCRIPTION
Intra-cabinet Cable Management Trough; to be used when two 30" ES Enclosures are networked together without side panels

A CABLE ORGANIZERS

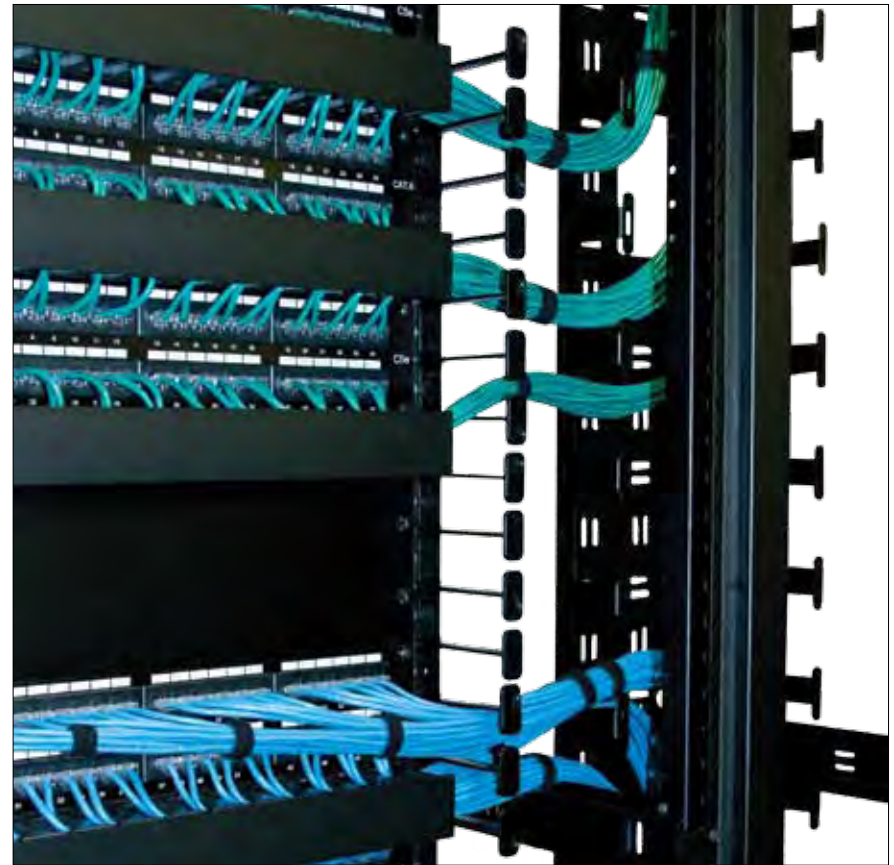


CABLE MANAGEMENT PANEL

PART NO.	DESCRIPTION
CM-10	Horizontal Panel for 19" mounting, .25" x 2" opening, 1 RMU, Ideal for use with CM-01 cinch straps
19SRB	Cable Strain Relief Bar for 19" mounting, 1 RMU (not pictured)



EN Enclosure



ES Enclosure with "sidecar"



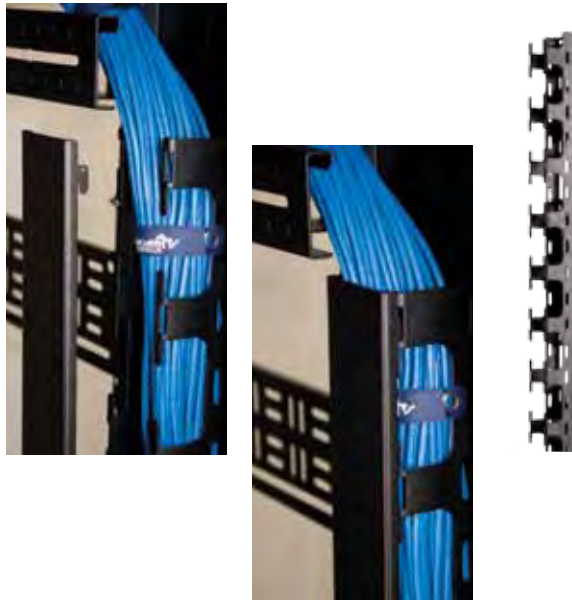
STRAIN RELIEF BAR

PART NO.	DESCRIPTION
CM-03	Back Side Cable Management Bar, 1 RMU
CM-19	Utility Strain Relief Bar for 19" mounting, 1 RMU (not pictured)

CABLE MANAGEMENT RAIL KIT

Cable Management Rail Kits are made of multiple pieces of 7 RMU sections of "fingers." When used with ES enclosures, fingers are installed on the front of the rail using Great Lakes flexible mounting profile, a series of holes outside of the EIA pattern (used for fingers and other accessories). EN rails have more than one series of holes (as pictured), so fingers can be installed on the front, side, or rear of rail. Fingers align with rack mount units on both enclosures, creating clean cable pathways.

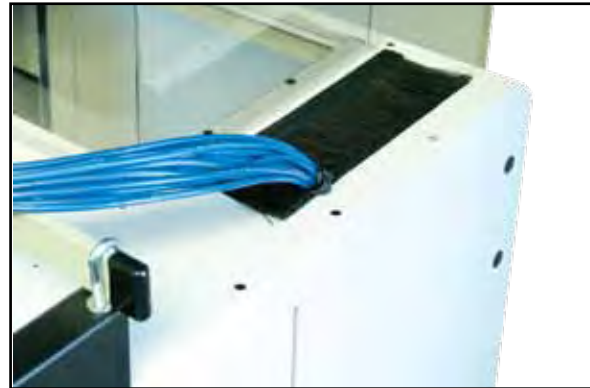
PART NO.	DESCRIPTION
ESC-K12	ES Cable Management Rail Kit for front or rear rails; includes 12 sections of "fingers" (each section, 7 RMU); rails will need to be recessed 4.5"
ENC-K24	EN Cable Management Rail Kit for front or rear rails; includes 24 sections of "fingers" (each section, 7 RMU)



CABLE TROUGHS

The increased rear capacity of ES Enclosures allows Vertical Cable Troughs to be mounted for added cable management. Up to three troughs can be mounted in each rear corner.

PART NO.	DESCRIPTION
VCT-84	Vertical Cable Trough for 84"H ES Enclosure; 68"H x 3"W x 2.5"D
VCT-84C	Cover for VCT-84
VCT-78	Vertical Cable Trough for 78"H ES Enclosure; 62"H x 3"W x 2.5"D
VCT-78C	Cover for VCT-78
HCM-D36	Horizontal Cable Trough for ES Enclosures (not pictured)



BRUSH GROMMET

PART NO.	DESCRIPTION
BGT	Brush Grommet Kit to cover top cable pass through knockouts on 30"W ES Enclosures
BGS-78	Brush Grommet Kit to cover rear vertical cable pass throughs; for 78"H ES Enclosures
BGS-84	Brush Grommet Kit to cover rear vertical cable pass throughs; for 84"H x 42"D ES Enclosures
BGS-84-48	Brush Grommet Kit to cover rear vertical cable pass throughs; for 84"H x 48"D ES Enclosures



EXTERNAL CABLE MANAGER

The Great Lakes External Cable Manager or "Side Car" is designed to serve as a 12" wide facilitator of your cabling needs, either between two 84"H ES Enclosures or at the end of a row as part of a "home run" networking solution. The side car has two adjustable vertical cable troughs, "fingers" and attachment points for a variety of cable management accessories. When attached to an end-cabinet, Great Lakes offers an easy to install cover panel to help "dress out" the row.

PART NO.	DESCRIPTION
SC128442	External Cable Manager, 84"H x 12"W x 42"D; for use with 84"H ES Enclosures
SCP8442	End Panel for External Cable Manager; for use as an end-of-row cover panel

A LACING BARS



HORIZONTAL & VERTICAL LACING BARS

PART NO.	DESCRIPTION
HLB-32	Horizontal Lacing Bar for 32"D Enclosure
HLB-36	Horizontal Lacing Bar for 36", 42" and 48"D Enclosures
VLB-48	Vertical Lacing Bar for 48"H Enclosure; 32"H x 4"W
VLB-72	Vertical Lacing Bar for 72"H Enclosure; 56"H x 4"W
VLB-78	Vertical Lacing Bar for 78"H Enclosure; 62"H x 4"W
VLB-84	Vertical Lacing Bar for 84"H Enclosure; 68"H x 4"W

All Vertical Lacing Bars include six 12" long cinch straps



Great Lakes offset rail kit allows one set of rails (on either side of the enclosure) in 30"W ES enclosures to be shifted inward, creating 6" of space (from the outside of the rail to the inside edge of the enclosure). This 6" of space is ideal for routing high density cable bundles along one side of an enclosure; either independently or by using vertical cable troughs.

PART NO.	DESCRIPTION
OSRK	Offset Rail Kit for 78"H and 84"H x 30"W ES Enclosures



LACING BAR KITS

All Lacing Bar Kits include one vertical lacing bar, two horizontal lacing bars, and six 12.00" long cinch straps. Vertical bars are fully adjustable, moving independently of enclosure rails to route cable up and down where needed. Combined with horizontal bars, the lacing bar kit creates a quick cable management solution for any Great Lakes enclosure.

PART NO.	DESCRIPTION
VLB-4832	Vertical Lacing Bar Kit for GL480E-2432 Enclosure Only
VLB-4836	Vertical Lacing Bar Kit for GL480ES-2442 Enclosure Only
VLB-7232	Vertical Lacing Bar Kit for 72"H x 32"D E/ES Series Enclosure
VLB-7236	Vertical Lacing Bar Kit for 72"H x 36"D E/ES Series Enclosure
VLB-7836	Vertical Lacing Bar Kit for 78"H x 42"D ES Series Enclosure
VLB-8432	Vertical Lacing Bar Kit for 84"H x 32"D E Series Enclosure
VLB-8436	Vertical Lacing Bar Kit for 84"H x 36", 42" and 48"D E/ES Series Enclosures



CINCH STRAPS

PART NO.	DESCRIPTION
CM-01	Cinch Strap with buckle and grommet 12"L x 3/4"W, color: blue
CM-06	Cinch Strap with buckle and grommet 6"L x 3/4"W, color: black



As an ISO 9001:2008 registered company, each product manufactured by Great Lakes is warranted free from defects in material and workmanship. Repairs or returns are easily completed by contacting one of our customer service representatives, available from 8 AM to 8 PM Eastern Standard Time, Monday through Friday.

Great Lakes freight policy continues to be the best in the industry; by choosing Prepay and Add, orders will arrive by a reliable carrier chosen by Great Lakes; if inspection of the order reveals damage, just call within 72 hours of receiving your order and we'll take care of everything!

Complete information about these policies as well as definitions of accessorial charges are outlined in the following pages. Should you have any questions at all, please call 1.866.TRY.GLCC or visit us on the web.



POLICIES

WARRANTY • PAYMENT • FREIGHT

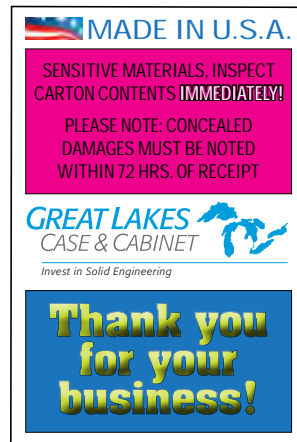
ENCLOSURE WARRANTY

Great Lakes Case & Cabinet Co., Inc. warrants that each of its standard products is free from defects in material and workmanship for a period of one year from date of shipment. If within that period of time, goods shall be determined defective, these goods should be replaced or repaired at Great Lakes' option. Under no circumstances, however, will Great Lakes be held responsible for any amount beyond the price of the product or any unauthorized "field" repair. Such correction or replacement of defective goods shall constitute a fulfillment of all liabilities in respect to such goods. Electrical components provided by Great Lakes are warranted for a period of one year from date of purchase. This applies to all power strips, fan assemblies and blower units. **THIS EXPRESS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

EXCLUDED PRODUCTS: Some products in this catalog are not manufactured by us and are not covered by our limited warranty. Products that are marked with this asterisk * are not covered by our limited warranty. Please contact our sales staff to obtain information about manufacturer warranties and terms (which may not be assignable).

CONDITIONS & EXCEPTIONS

Our products must be handled, installed and shipped according to industry standards for metal fabrication and solid state electronic equipment. Claims under this policy must be made by the original purchaser. All damages must be reported to Great Lakes within 72 hours after receipt of product. Claims beyond this time period will not be the responsibility of Great Lakes Case & Cabinet Co., Inc. Any indentations, punctures, or other damages to the shipping cartons should be noted by receiving personnel on the delivery report. This will help protect our customers from possible concealed damages (Applies only to Prepay and Add freight option with carrier specified by Great Lakes).



REPAIR AND RETURN PROCEDURES

Products being returned for repair or replacement must have prior approval and an assigned RMA (Return Merchandise Authorization) number. The RMA number must appear on all packages, which should be shipped collect to:

Great Lakes Case & Cabinet Co., Inc.
4193 Route 6N East
Edinboro, PA 16412
RMA No. _____

Products being returned due to reasons other than normal repair or replacement will be subject to a 20% restocking charge. This charge is based on invoice prices. The restocking charge does not release the customer from the responsibility of proper packaging and return of the product in reusable condition. Products held by customer in excess of 30 days may not be returned for credit. The return must have an RMA assigned and are the responsibility of the customer to return to Great Lakes Case & Cabinet Co., Inc.

Note: Any special customized cabinets or cases must first be approved in writing by the customer. Once the customer approves and receives the special unit, there will be no return of such product except for modifications or repair of damages.



PAYMENT TERMS

Net 30 day accounts will be opened only after approval of credit. On approved accounts: net 30 days from date of invoice. Past due accounts are subject to a 1.5% late charge for each 30 days period the outstanding balance remains unpaid beyond the 30th day after invoice date. Past due accounts beyond 60 days are subject to credit hold. Terms and conditions may not apply to delivery outside the United States and in the European Economic Community. Please contact your Great Lakes Representative for details.

FREIGHT HANDLING OPTIONS

1. Great Lakes Prepay & Add: (Carrier specified by Great Lakes) Great Lakes pays freight charges to the carrier and adds freight charge costs to the product invoice. Great Lakes offers this service without an additional handling charge; provided the customer agrees to the following conditions:

- A. Carrier is specified by Great Lakes. Great Lakes has contractual agreements with selected carriers to minimize shipping costs.
- B. Customer agrees to pay Great Lakes all freight charges appearing on product invoices without requiring additional freight cost documentation.
- C. Customer agrees to pay Great Lakes for freight costs associated with an order shipment, but not contained in the initial product invoice. (Great Lakes will provide a separate invoice for this cost.) Example: an additional cost from the carrier for inside delivery service required by the end user and not specified on the purchase order.
- D. Agreement to these conditions is implied when customer specifies prepaid freight when placing an order with Great Lakes.
- E. Great Lakes Case and Cabinet Co., Inc. reserves the right to withdraw the prepaid option at any time.

2. Third Party Billing: (Carrier specified by Customer) Freight is billed to a party other than Great Lakes or the Customer. A third party account number or third party billing address is supplied by the Customer.

3. Freight Collect: (Carrier specified by Customer) A freight account number is supplied or freight charges are paid by check at the destination site upon delivery.

DAMAGES

1. Prepay and Add Freight: (Carrier chosen by Great Lakes)
 - A. Great Lakes is responsible for adding freight charges to product invoice and freight claims.
 - B. Great Lakes has the option to supply replacement parts, if needed.
 - C. Great Lakes has the option to have damaged product returned to Great Lakes.
2. Third Party Billing: (Carrier chosen by Customer)
 - A. Third party customer is responsible for all freight charges and for filing all freight claims with the freight carrier.
 - B. All replacement parts must be ordered with a new purchase order.
3. Freight Collect: (Carrier chosen by Customer)
 - A. Collect customer is responsible for all freight charges.
 - B. All replacement parts must be ordered with a new purchase order.

FREIGHT ESTIMATES

If requested, Great Lakes will provide freight estimates. Great Lakes will not be liable for the accuracy of these estimates. Great Lakes does not guarantee transit times, either verbal or inferred. These are estimates and should be treated as such. Great Lakes reserves the right to discontinue its freight estimate program at any time. All weights shown are approximate and obtained from standard packaging procedures. Skid weight is not included.

Product specification, price and availability are subject to change without prior notice.

Please contact us at our Edinboro office to verify orders.

Great Lakes Case & Cabinet Co., Inc. is not responsible for typographical errors.

Terms and conditions may not apply to delivery outside the United States and in the European Economic Community. Please contact your Great Lakes Representative for details.

P POLICIES

INSIDE DELIVERY

A single driver taking a carton or skid from the receiving area to the desired room or office. The driver must be provided an adequate loading dock for off loading and an unobstructed path to the room or office to which the carton or skid is destined. The driver will provide any necessary equipment required for easier handling, such as a hand truck or pallet jack. If the final destination is not accessible from the loading dock, a freight elevator must be provided.

Note: Drivers are not permitted to unpack or remove cartons.

LIFTGATE SERVICE

A liftgate is a small platform installed at the rear of some delivery trucks used to lower heavy or bulky freight to ground level when no loading dock is available. Any customer that cannot provide an adequate loading dock should request a liftgate service when ordering. Liftgate service only delivers the carton or skid to ground level and does not provide delivery anywhere but inside the customer's door. Liftgate service is not included under the definition of inside delivery. It is a separate service charge which must be pre-arranged before delivery.

Note: Not all trucks are equipped with a liftgate.

NOTIFICATION

Most carriers will charge a fee anytime they are required to call and arrange an appointment before delivery.

Note: Great Lakes requires customers to provide a reliable contact name and phone number for someone at the destination site to eliminate any confusion about location, time of delivery, and services required beforehand.

RECONSIGNMENT

Any change from the original delivery destination after the product has left the shipper's loading dock results in a reconsignment fee. As a reconsignment fee can nearly match the original dock-to-dock freight charges, it is in the customer's best interest to be absolutely certain of the delivery destination.

REDELIVERY

Whenever a delivery is refused by a customer (for reasons that are not the fault of the carrier) and must subsequently be redelivered to the same site, the carrier will charge a redelivery fee.

Product specification, price and availability are subject to change without prior notice.

Please contact us at our Edinboro office to verify orders.

Great Lakes Case & Cabinet Co., Inc. is not responsible for typographical errors.

Terms and conditions may not apply to delivery outside the United States and in the European Economic Community. Please contact your Great Lakes Representative for details on these or any other Great Lakes policies.



UL Logo in the catalog means Great Lakes product is listed to UL60950-1 Standard for Information Technology and Communications Equipment, Wall Mounts, Enclosures and Rack Systems



Restriction of Hazardous Substances Directive, or RoHS, aims to restrict certain dangerous substances (that are harmful to people and the environment) commonly used in electronics and electronic associated equipment.



The Building Industry Consulting Service International, Inc. (BICSI) is a professional association supporting the information transport systems (ITS) industry with information, education and knowledge assessment for individuals and companies. BICSI serves more than 24,000 ITS professionals, including designers, installers and technicians.



The Women's Business Enterprise National Council (WBENC), founded in 1997, is the nation's leading advocate of women-owned businesses as suppliers to America's corporations. It also is the largest third-party certifier of businesses owned and operated by women in the United States. WBENC works to foster diversity in the world of commerce with programs and policies designed to expand opportunities and eliminate barriers in the marketplace for women business owners.



The Armed Forces Communications and Electronics Association (AFCEA) International, established in 1946, is a non-profit membership association serving the military, government, industry, and academia as an ethical forum for advancing professional knowledge and relationships in the fields of communications, IT, intelligence, and global security.



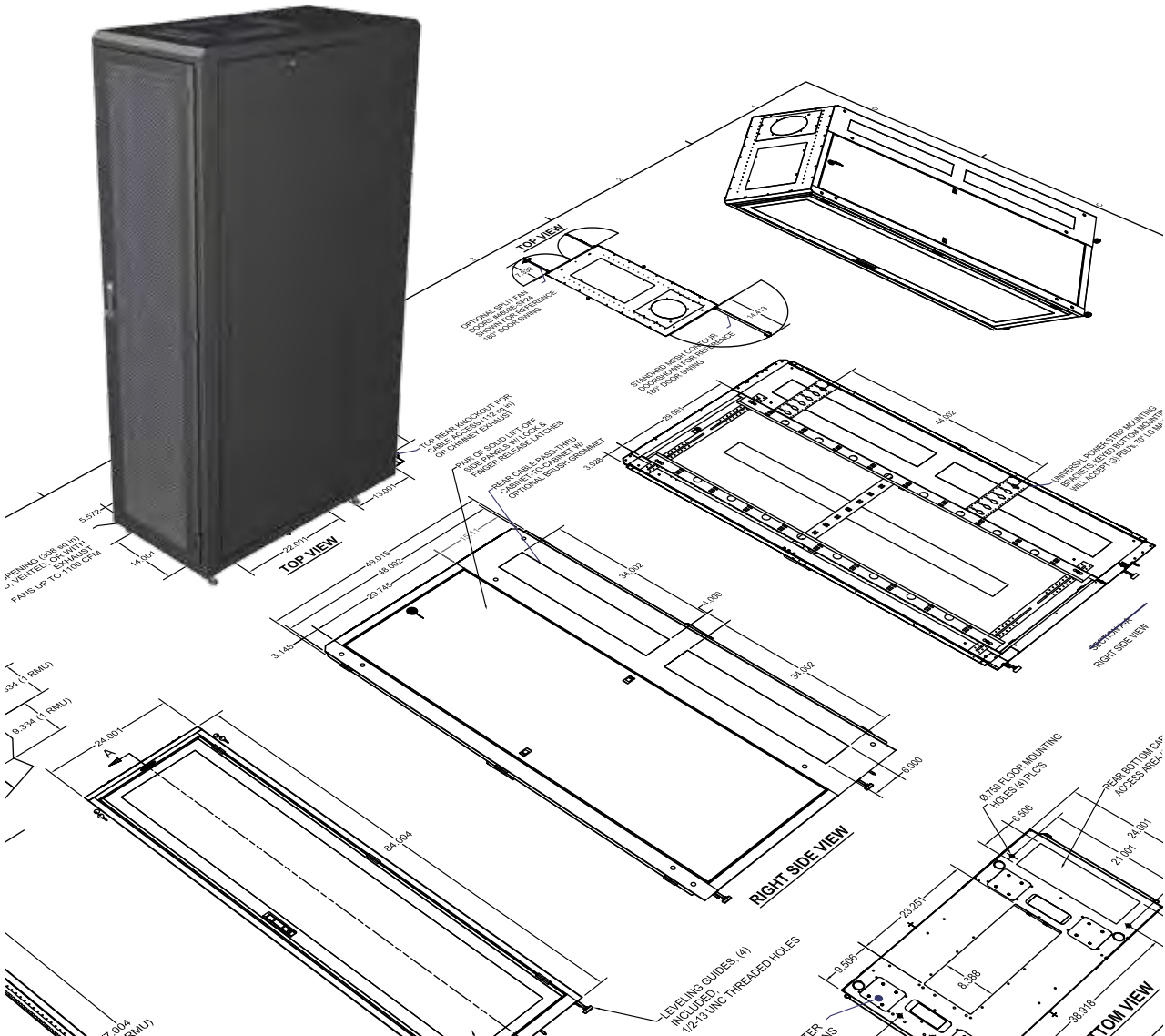
ISO 9001 are international, generic management standards related to quality. Any organization can implement these standards to bring about continual improvement in meeting customer expectations through management, manufacturing processes, etc.

Technical Drawings for Great Lakes Enclosures can be found on the following pages. Drawings point out the general features of all the enclosures in a series: dimensions, cable knock-outs, construction, weight capacity, and more. Detailed drawings for a specific enclosure can be found by visiting WeRackYourWorld.com.

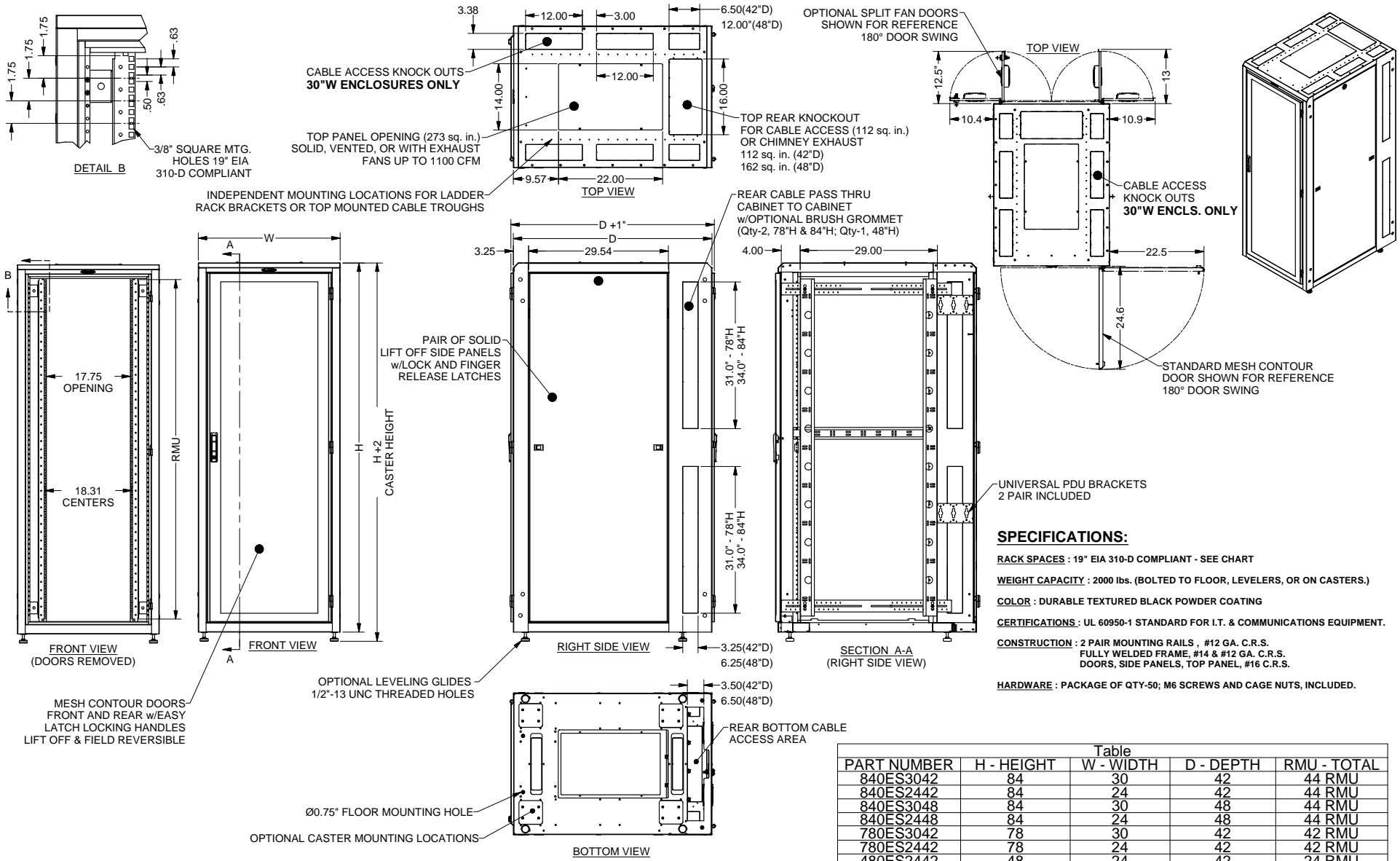
Technical drawings for Wall Mounts, Racks and most Accessories can be found on our web site, along with a number of design and engineering tools to help you find the right enclosure to meet your needs.

Those resources include:

- The Product Configurator
- BIM files for Revit
- Visio Shapes
- DWG and DXF Drawings



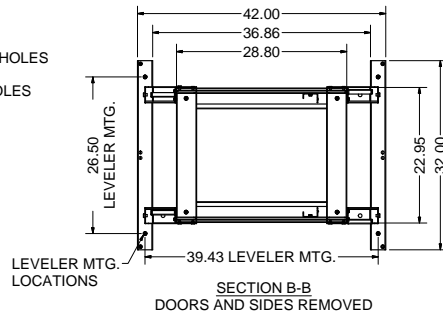
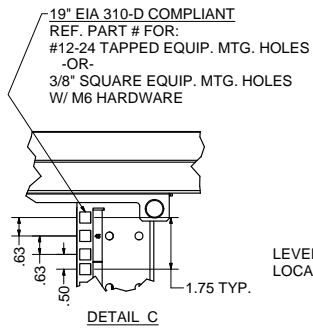
TECHNICAL D • R • A • W • I • N • G • S



- SPECIFICATIONS:**
- RACK SPACES:** 19" EIA 310-D COMPLIANT - SEE CHART
 - WEIGHT CAPACITY:** 2000 lbs. (BOLTED TO FLOOR, LEVELERS, OR ON CASTERS.)
 - COLOR:** DURABLE TEXTURED BLACK POWDER COATING
 - CERTIFICATIONS:** UL 60950-1 STANDARD FOR I.T. & COMMUNICATIONS EQUIPMENT.
 - CONSTRUCTION:** 2 PAIR MOUNTING RAILS, #12 GA. C.R.S. FULLY WELDED FRAME, #14 & #12 GA. C.R.S. DOORS, SIDE PANELS, TOP PANEL, #16 C.R.S.
 - HARDWARE:** PACKAGE OF QTY-50; M6 SCREWS AND CAGE NUTS, INCLUDED.

Table				
PART NUMBER	H - HEIGHT	W - WIDTH	D - DEPTH	RMU - TOTAL
840ES3042	84	30	42	44 RMU
840ES2442	84	24	42	44 RMU
840ES3048	84	30	48	44 RMU
840ES2448	84	24	48	44 RMU
780ES3042	78	30	42	42 RMU
780ES2442	78	24	42	42 RMU
480ES2442	48	24	42	24 RMU

CONFIG PART #	
840ENT3242MSS	840ENC3242MSS
EN FRAME 84"H x 32"W x 42"D WITH DUAL HINGE PERF FRONT DOOR, SPLIT PERF REAR DOOR, SOLID SIDES, 45 RMU W/ #12-24 TAPPED RAILS	EN FRAME 84"H x 32"W x 42"D WITH DUAL HINGE PERF FRONT DOOR, SPLIT PERF REAR DOOR, SOLID SIDES 45 RMU W/ M6 RAILS

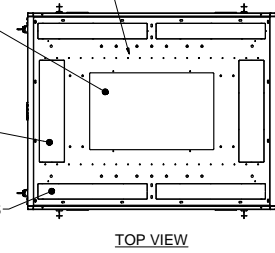


INDEPENDENT MOUNTING LOCATIONS FOR LADDERRACK BRACKETS OR TOP MOUNTED CABLE TROUGHS

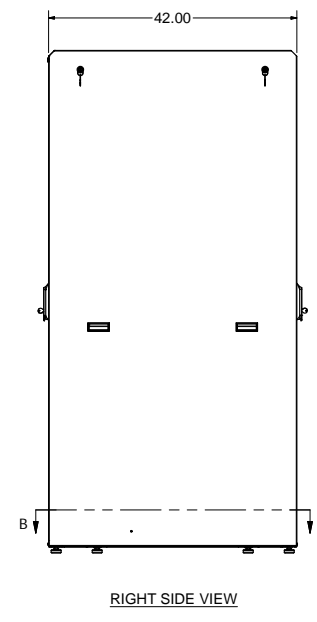
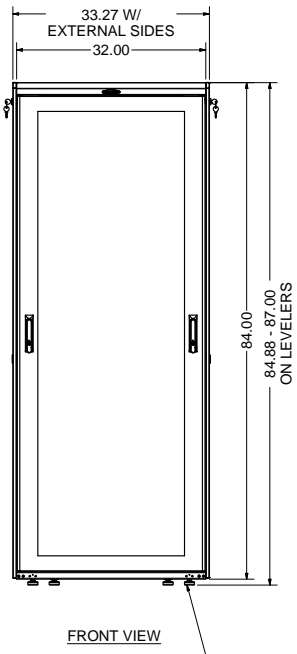
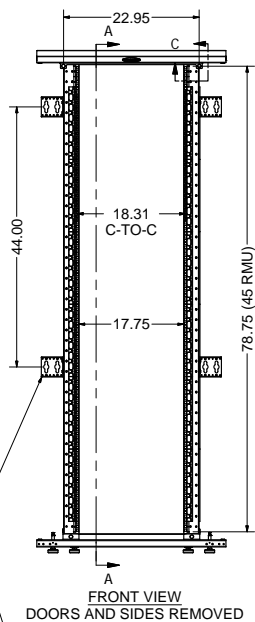
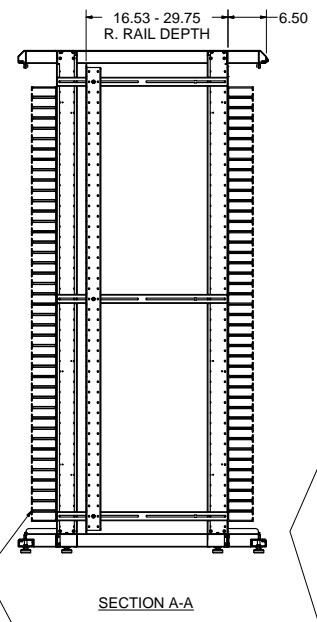
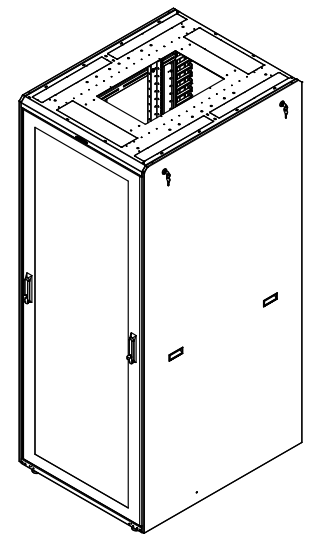
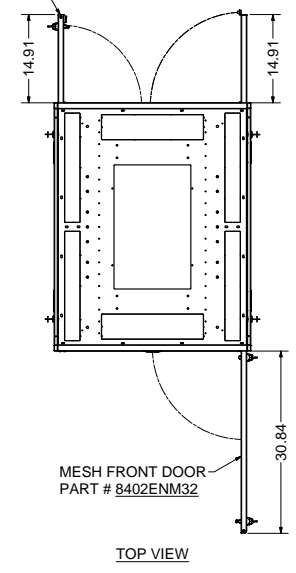
TOP PANEL OPENING (273 sq.in.); SOLID, VENTED, OR WITH EXHAUST FANS UP TO 1100 CFM.

4.25 x 17.25 CABLE PASS THROUGH KNOCKOUT (73.31 sq.in.), 2 PLACES

2.63 x 18.50 CABLE PASS THROUGH KNOCKOUT (48.56 sq.in.), 4 PLACES



SPLIT MESH REAR DOORS PART # 8402EN32SM



PLASTIC CABLE MANAGEMENT FINGERS ON BOTH SIDES OF RMU, ON 2 BOTH MOUNTING RAILS

UNIVERSAL POWER STRIP MOUNTING BRACKETS KEYED BUTTON MOUNTING WILL ACCEPT 2 PDU'S

LEVELING GLIDES (8 INCLUDED) 1/2-13 UNC THREADED HOLES

SPECIFICATIONS:

CONFIG. # KIT INCLUDES: QTY. 1 8401ENX3242, BASE FRAME UNIT WITH RAILS
QTY. 1 8402EN32SM, SPLIT MESH REAR DOOR ASSEMBLY
QTY. 1 8402ENM32, MESH FRONT DOOR ASSEMBLY
QTY. 2 8410421ENLS, SOLID LIFT-OFF SIDE PANEL ASSEMBLY

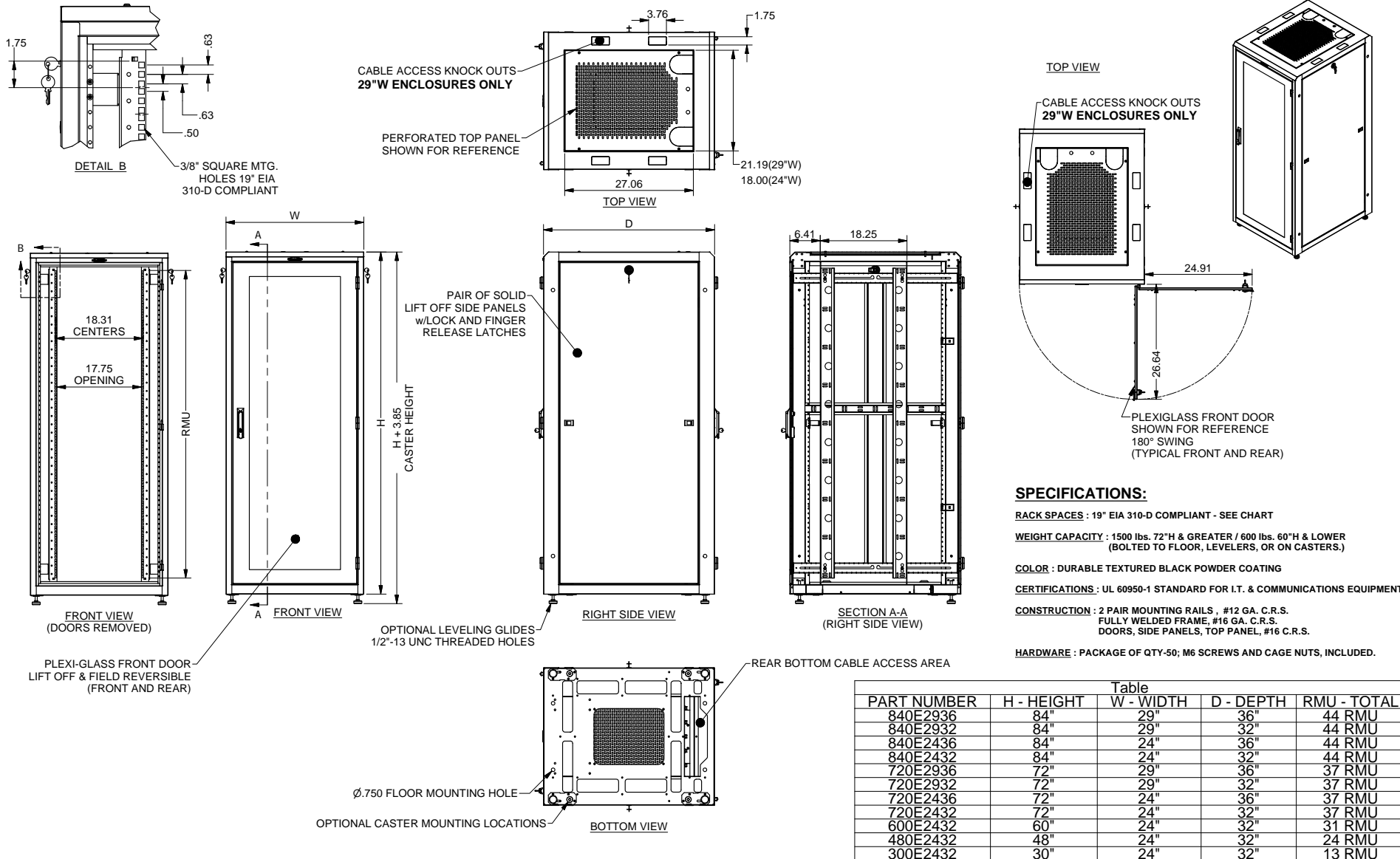
DIMENSIONS : 84.0"H x 32.0"W x 42.0"D

RACK SPACES : 45 RMU w/ NUMBERED RMU INDICATORS, 19" EIA 310-D COMPLIANT.

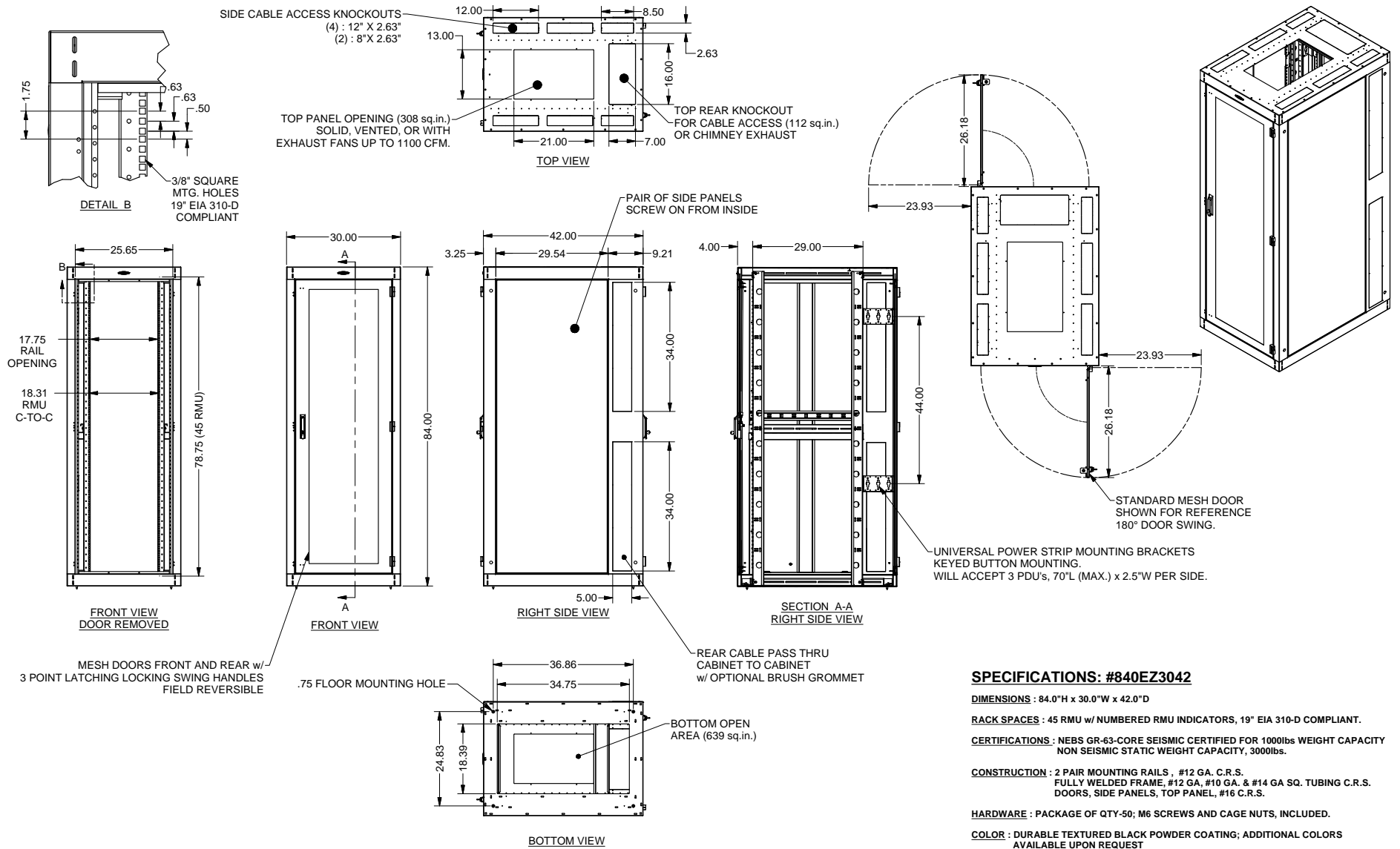
COLOR : DURABLE TEXTURED BLACK POWDER COATING

CONSTRUCTION : FULL WELDED FRAME WITH RECESSED #12 GA CORNER POSTS
1 PAIR FIXED #12 GA RAILS, 1 PAIR ADJUSTABLE DEPTH #12 GA RAILS
DOORS #16 C.R.S. & SIDE PANELS LIGHT-WEIGHT ALUMINUM

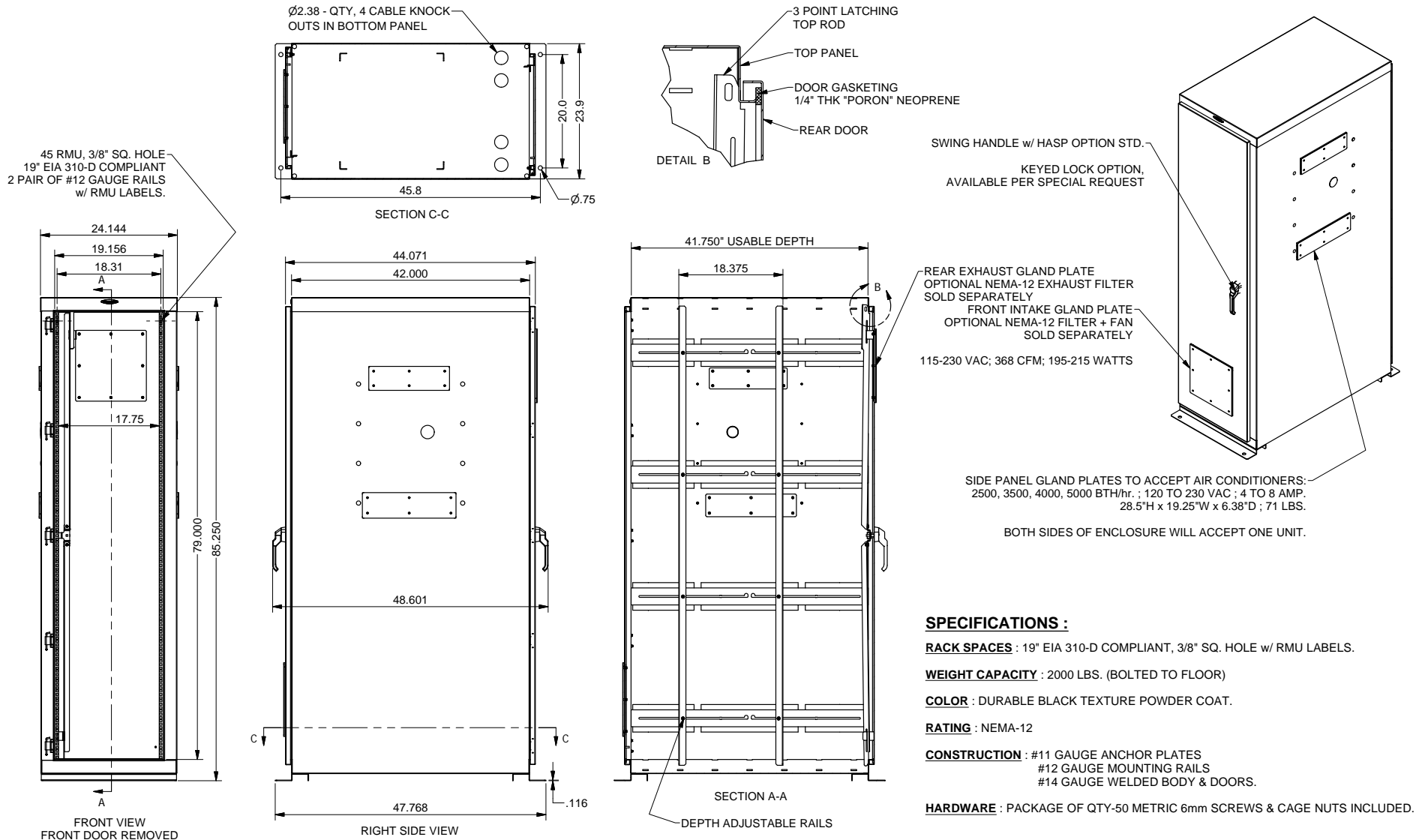
HARDWARE : PACKAGE OF QTY-50; #12-24 SCREWS -OR- M6 SCREWS W/ CAGE NUTS, INCLUDED.



PART NUMBER	H - HEIGHT	W - WIDTH	D - DEPTH	RMU - TOTAL
840E2936	84"	29"	36"	44 RMU
840E2932	84"	29"	32"	44 RMU
840E2436	84"	24"	36"	44 RMU
840E2432	84"	24"	32"	44 RMU
720E2936	72"	29"	36"	37 RMU
720E2932	72"	29"	32"	37 RMU
720E2436	72"	24"	36"	37 RMU
720E2432	72"	24"	32"	37 RMU
600E2432	60"	24"	32"	31 RMU
480E2432	48"	24"	32"	24 RMU
300E2432	30"	24"	32"	13 RMU



T NEMA 12



PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
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1.75-FPTL19	118	4P1224-29	88	7204E-24	101	7215-S	114	8.75-FPTL19	118
14.00-FP19	118	4P1224-32	88	7204E-29	101	7217-04	80	8401E-2432	48
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1984ST15	91	4PM6-29-5FO	88	7206-DR	111	7217FT	119	8401ES-2448	22
1984-VCM10	91	4PM6-29-5FR	88	7206-EIA	110	7217FT-3	119	8401ES-3042	24
1984-VCM10C	91	4PM6-29-8FO	88	7206-FM	110	7217FT-6	119	8401ES-3048	20
19SRB	128	4PM6-29-8FR	88	7206-FR-A18	110	7217FT-9	119	8401EZ-3042	66
2319	109	4PM6-32	88	7206-FR-A28HD	110	7217LE2	119	8402E-24	100
2319-F	109	4PM6-36	88	7206-FR-A32HD	110	7217LE3	119	8402E-24PV	101
2319F1.75	109	5.25-FP19	118	7206-FR-ADHD	110	7217WS	81	8402E-24PVM	101
3.50-FP19	118	5.25-FPTL19	118	7206-FR-AHD	110	7218-24	114	8402E-24SM	102
3.50FP19BG	118	6001E-2432	58	7206-FRSLA300	111	7219	114	8402E-29	100
3.50-FPTL19	118	6002E-24	100	7206-FRSL-ADHD	111	7219-20AR	114	8402E-29PV	101
3001E-2432	62	6002E-M24	100	7206-FRSL-ADHD	111	7219-20ARTLP	114	8402E-29PVM	101
3002E-24	100	6003E-24	100	7206-FRSL-AHD	111	7219-SR14	114	8402E-29SM	102
3002E-M24	100	6004E-24	101	7206-MKM	111	72E24EXT4	105	8402E-M24	100
3003E-24	100	6005-E2P	109	7206-PKB-MT	111	72E29EXT4	105	8402E-M29	100
3004E-24	101	6010-32ELS	105	7206-SL	111	7801ES-2442	30	8402E-MC24	102
3010-32ELS	105	6011-32ELL	105	7208-E	112	7801ES-3042	28	8402E-MC29	102
3011-32ELL	105	7.00-FP19	118	7208-EALL	112	7802E-24SM	102	8402EN-30SM	39
3105-E2P	109	7.00-FPTL19	118	7208-EHD	112	7802E-29SM	102	8402EN-32SM	38
4801E-2432	60	7201E-2432	56	7208-ES	112	7802E-M24	100	8402EN-M32	38
4801ES-2442	32	7201E-2436	54	7208WD	81	7802E-MC24	102	8402EZ-M30	66
4802E-24	100	7201E-2932	52	7208WS	81	7802E-MC29	102	8403E-24	100
4802E-M24	100	7201E-2936	50	7209-N	112	7803E-24	100	8403E-29	100
4802E-MC24	102	7202E-224	100	7209-N4	112	7803E-29	100	8403E-SF24	102
4803E-24	100	7202E-24PV	101	7210-32ELS	105	7803E-SF24	102	8403E-SF29	102
4803E-SF24	102	7202E-24PVM	101	7210-36ELS	105	7803E-SF29	102	8403E-SS24	103
4804E-24	101	7202E-29	100	7211-32ELL	105	7803E-SS24	103	8403E-SS29	103
4805-E2P	109	7202E-29PV	101	7211-36ELL	105	7803E-SS29	103	8404E-24	101
4810-32ELS	105	7202E-29PVM	101	7215	114	7805-ES1P	109	8404E-29	101
4810-36ELS	105	7202E-M24	100	7215-20AR	114	7805-ES2P	109	8405-ES1P	109
4811-32ELL	105	7202E-M29	100	7215-20ARTLP	114	7810-36ELS	105	8405-ES2P	109

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8410-36ELS	105	BP-ES29B	108	CM-14	127	G101ES	112	GL480E-2432S	60
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8410421-ENLS	38	BPF29	108	CM-16	127	GL15WMS	75	GL480N12	77
8410481-ENLS	39	BPS24	108	CM-17	127	GL240N12	77	GL480WS-PV	73
8411-32ELL	105	BPS29	108	CM-19	128	GL2418WM	72	GL48SR	78
8411-36ELL	105	BS2-2424WB	81	CM-425	126	GL2418WMS	72	GL48SRD	78
84E24EXT4	105	BS2-CB10	81	CM-44	126	GL24SR	78	GL48WD	74
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ACD840ES	122	BS2-MR11	80	CMR-45U	90	GL24WDS	74	GL48WMS	72
ADV. Corner	97	BS2-TM3R	80	DB Access Control	104	GL24WE	76	GL48WS-PS	73
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AK101	112	BS2-TPMC-818	79	ENC-K24	128	GL24WS-PS	73	GL6000V	68
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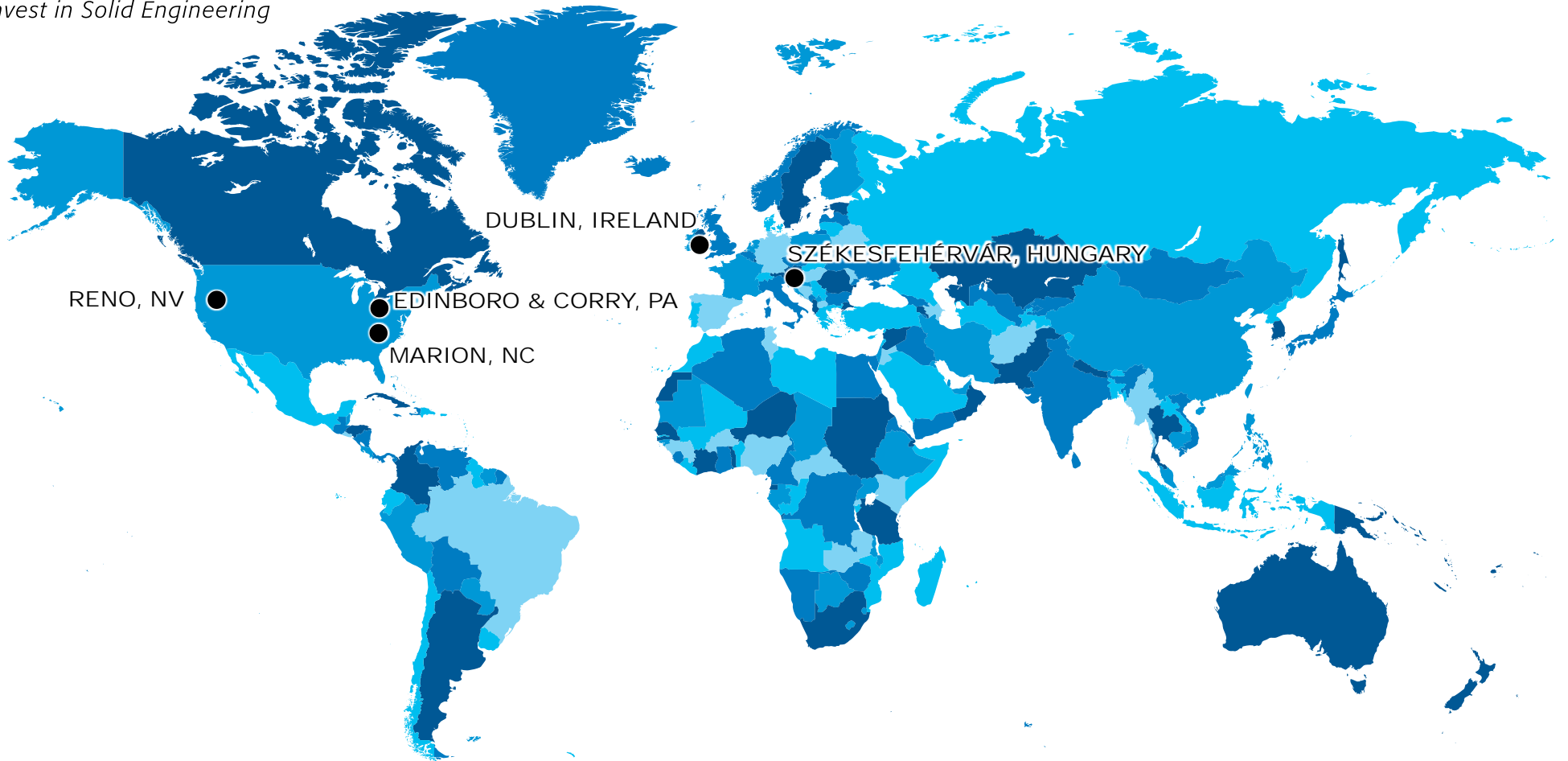
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