



'16

UNIQUE DATA CENTER?
UNIQUE SOLUTIONS

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GREAT LAKES 
CASE & CABINET
Invest in Solid Engineering

1



CUSTOM COLD AISLE CONTAINMENT

Incomplete data center aisles and open rack spaces within enclosures led one customer to realize that their data center space and cooling was not efficient. With the help of Great Lakes, a cold aisle cooling strategy would be implemented. Great Lakes enclosures were installed along different sizes of enclosures from other manufacturers. In order to properly install horizontal panels across the top of the enclosures, unique structural beams were designed to place on top of the pre-existing enclosures. Space limitations within the data center required a custom end of aisle door with only one sliding door.

2



CUSTOM INDUSTRIAL ENCLOSURE

Increased security measures for an outdoor parking garage required new cameras and associated equipment to be installed in the garage. Custom 24"H x 24"W x 30"D boxes were designed with mounting rails and a mounting back panel; a UPS, network switch, patch panel, multiple fiber patch panels, and horizontal cable managers all needed to be supported. Conduit knockouts were placed in specific locations to accommodate pipes into and out of the box. The box was tested and certified to NEMA 3R standards: for indoor or outdoor use and able to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (dirt) and water (rain, sleet, snow); the box will be undamaged by the external formation of ice on the enclosure.

3



CUSTOM CHIMNEYS

Great Lakes enclosures were introduced into a data center that had extensive runs of overhead cable baskets. In order to protect the high density equipment installed in the Great Lakes Enclosures, the customer requested exhaust chimneys be installed, but the existing basket trays made the task challenging. A chimney with a 90 degree bend was designed to fit around basket trays. Enclosures did not evenly align with ceiling tiles, so a flexible duct attached to the chimney and stretched to the nearest ceiling tile.

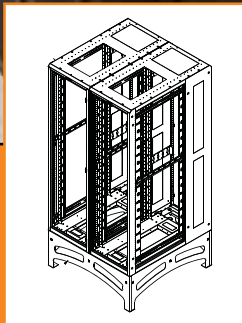
4



CUSTOM GOVERNMENT ENCLOSURE

This enclosure for a government agency was required to meet specific guidelines to support cable management, power, and protection of equipment. Some of those unique features include: adjustable depth, stainless steel horizontal cable troughs that adjust with the mounting rails; junction boxes installed to support intelligent PDUs; color coded doors to designate the equipment installed within the enclosure; and adjustable aluminum rails that act as a faraday cage to protect equipment from EMI/RFI transmissions.

5



STRUCTURAL RISERS FOR SEISMIC SUPPORT

These enclosures are installed on top of structural risers within a data center located in California. The customer wished to maintain the flexibility of Great Lakes' ES enclosures, while adding seismic protection. During construction of the data center, fully welded 11 gauge structural risers were bolted to the concrete floor. After the raised floor was complete, the exposed risers allowed ES enclosures to be bolted directly to the risers.

6



PON ENCLOSURE

As tenants of large facilities (i.e. office building or college campus) search for ways to reduce costs in network infrastructure, many of them are turning to the use of Passive Optical Networks (PON). A college campus that was upgrading a number of its buildings chose to move to a PON solution. Great Lakes designed an enclosure to fit within a 24" x 24" ceiling tile; the enclosure would be installed in the existing ceiling grid in multiple buildings across campus. With the use of fans and special brackets, the enclosure could support the cooling and fiber management of PON equipment. PON enclosures allowed the campus to eliminate several telco closets, Ethernet and rack mount equipment, and cable management infrastructure.

7



DATA CENTER PRIVACY PANEL SYSTEM

A Fortune 500 insurance company found it necessary to add additional security measures to several enclosures within its data center: the enclosures needed to be separated from the traditional server and networking equipment and only certain personnel could have access to them. Due to limited space, the enclosures could not be moved to a separate location; Great Lakes developed steel support beams and rigid mesh panels to separate the enclosures from the rest of the data center. A sliding door features an electromagnetic lock system, as well as a panic button for easy opening in the event of an emergency.

8



ENHANCED CLOSED-LOOP ENCLOSURE

ScaleMatrix, a revolutionary company in San Diego, California, has developed an innovative Dynamic Density Control™ (DDC) platform that supports 45kW of power and cooling load per enclosure. These capabilities have enabled ScaleMatrix to offer revolutionary solutions spanning high-density colocation and scalable, hyper-efficient cloud services. Great Lakes is proud to have been asked to work with ScaleMatrix in the manufacture of the DDC platform—and we are now able to introduce our new Enhanced Closed-Loop Enclosure. The Enhanced Closed-Loop Enclosure is scalable and offers a variety of deployment options for individual locations, private data centers and colocation facilities.

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Products marked with an asterisk throughout the catalog are not manufactured by Great Lakes Case & Cabinet Co. Inc. Please see page 158 for third party warranty information.



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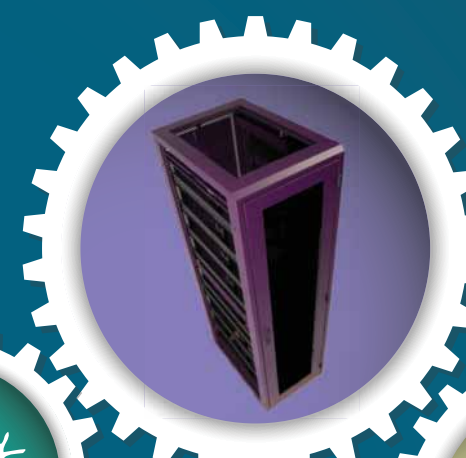
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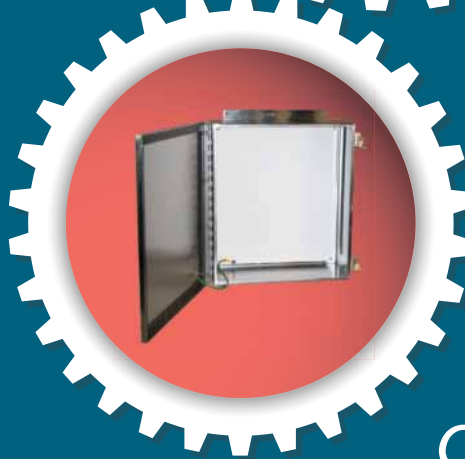
The Wheels

never stop turning as

Great Lakes...



weRack
your
world!



...our innovative engineers are diligently working to invent new solutions to make your data center more efficient than ever! Visit us on the web at werackyourworld.com

GREAT LAKES
CASE & CABINET



Invest in Solid Engineering

DATA CENTER SOLUTIONS



Each data center is characterized by its own infrastructure, cooling resources, power availability, cable management, and security needs; Great Lakes' goal is to provide unique solutions to customers to meet these needs. Through a variety of services and products, Great Lakes is able to work with customers to develop the most functional and cost-effective solution to support their data center. Learn more about these solutions...

D DATA CENTER SOLUTIONS

CFD MODELING

When working with a brown field site or designing a new data center, Great Lakes is able to use Computational Fluid Dynamics (CFD) software to help customers determine the best and most efficient products for their data center.

CFD modeling uses computer calculations to simulate the interactions of fluids and gases with various surfaces in a defined space. GLCC CFD modeling is able to provide a “steady state”, or view of the data center under specific operating conditions that does not change in time.

CFD modeling is able to provide reports to help evaluate:

- **Current data center performance:**
 - Power Usage Effectiveness (PUE)
 - Return on investment for upgrades
- **Determining inefficiencies in a data center:**
 - Over-cooling
 - Recirculation
 - Obstruction in air delivery
- **Performance of new design ideas:**
 - Containment
 - Aisle layouts
 - IT hardware deployment
 - Room expansion
 - Floor tile migration/movement
- **Possible data center scenarios:**
 - CRAC unit failures
 - Increasing IT load capacity
 - Increasing temperatures in the data center

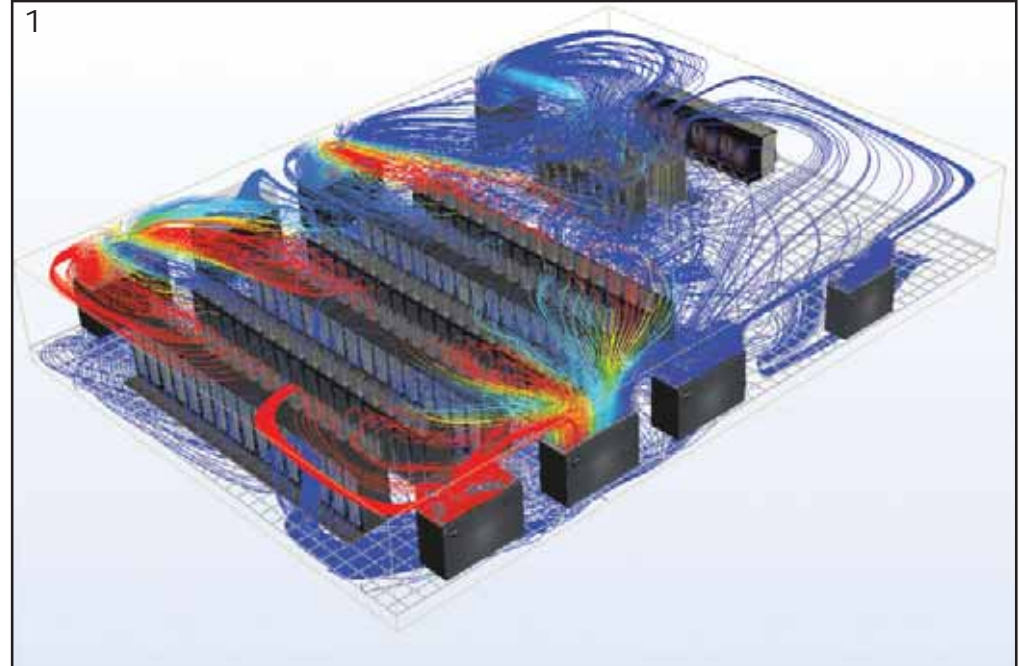
Four modeling types can be created with CFD software:

Concept Model: Create a small room with pre-defined criteria to test how a particular layout will perform on a larger scale

Virtual Model: Using customer supplied information (IT assets, CAD model room layouts, electrical schematics, etc.); from this information, a room model is created. This model reduces model creation time by eliminating site surveys and calibration

Baseline Model: A model is created by using customer supplied information as well as site surveys provide by Great Lakes to measure real-world room performance and to calibrate the model for accurate room performance; the baseline model provides the most accurate information about a data center

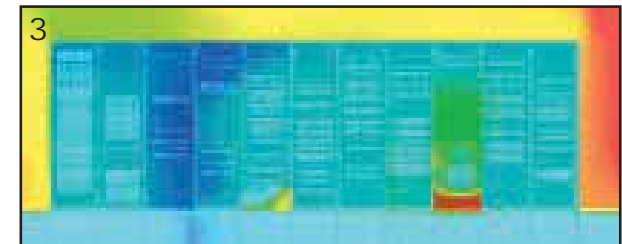
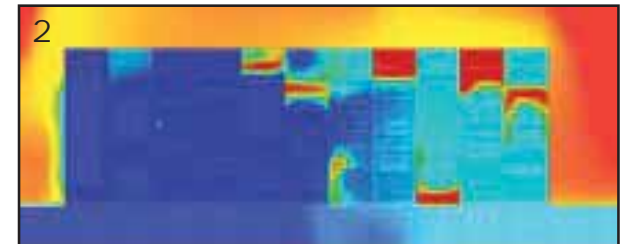
Future Model: Uses a virtual or baseline model with planned physical changes to determine how data center performance after upgrades



CFD model displaying airflow across the entire data center (Figure 1)

CFD model displaying a data center row in its current state (Figure 2)

CFD model portraying data center row after possible equipment changes (movement from one rack to another), creating a more even distribution of inlet temperatures across the row (Figure 3)



DATA CENTER SOLUTIONS **D**



The enclosure is a crucial component of the infrastructure of any data center and its functions go far beyond the protection and security of the equipment mounted within. The right enclosure can facilitate cooling and heat exhaust for 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 enable a variety of networking and cable management requirements, while supporting a myriad of power and cooling strategies, in either a “green” or “brown field” design.

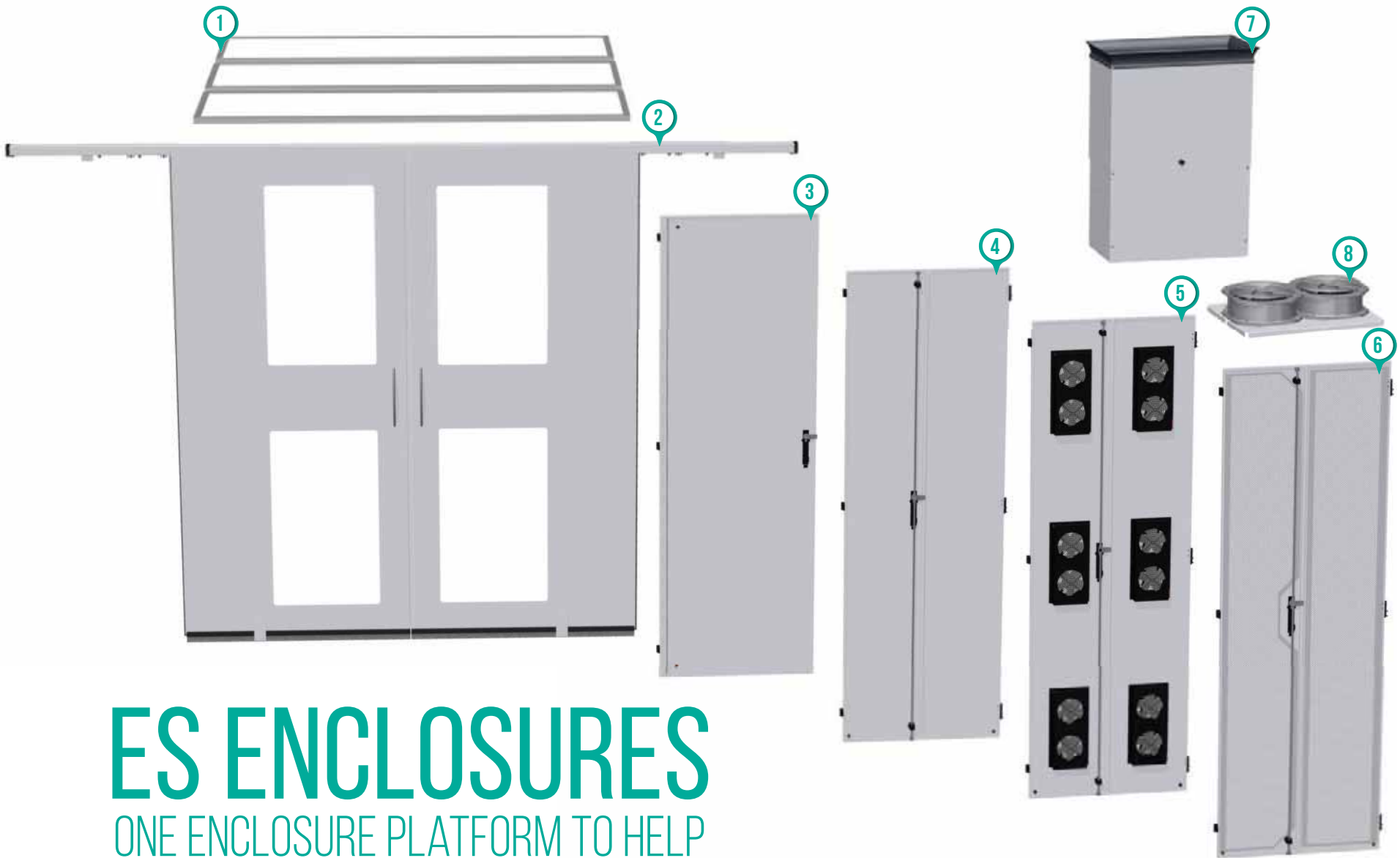
Whether you are working with “hot aisle/cold aisle” configurations, ducted cooling/exhaust, slab floor or any variation of containment, the Great Lakes ES Server enclosure is the right enclosure for your data center needs. The ES and its wide variety of accessories have been engineered to make it easy 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.

GL840ES-2448 enclosures are installed in this data center. Enclosures are cooled with under floor air; chimneys installed on each enclosure allow heated exhaust to be returned to the CRAC unit. An overhead cabling solution needed to be used; however, the chimneys provided multiple obstructions. To support overhead cabling within the data center, large threaded rods were installed in pre-existing thru holes on top of the enclosure. Ladder rack baskets and supporting brackets were attached to the rods and ran the length of the data center. The ES enclosure is fully welded and is able to fully support the weight of cables and baskets; this solution eliminated the need for infrastructure changes and provided significant cost savings.



D DATA CENTER SOLUTIONS

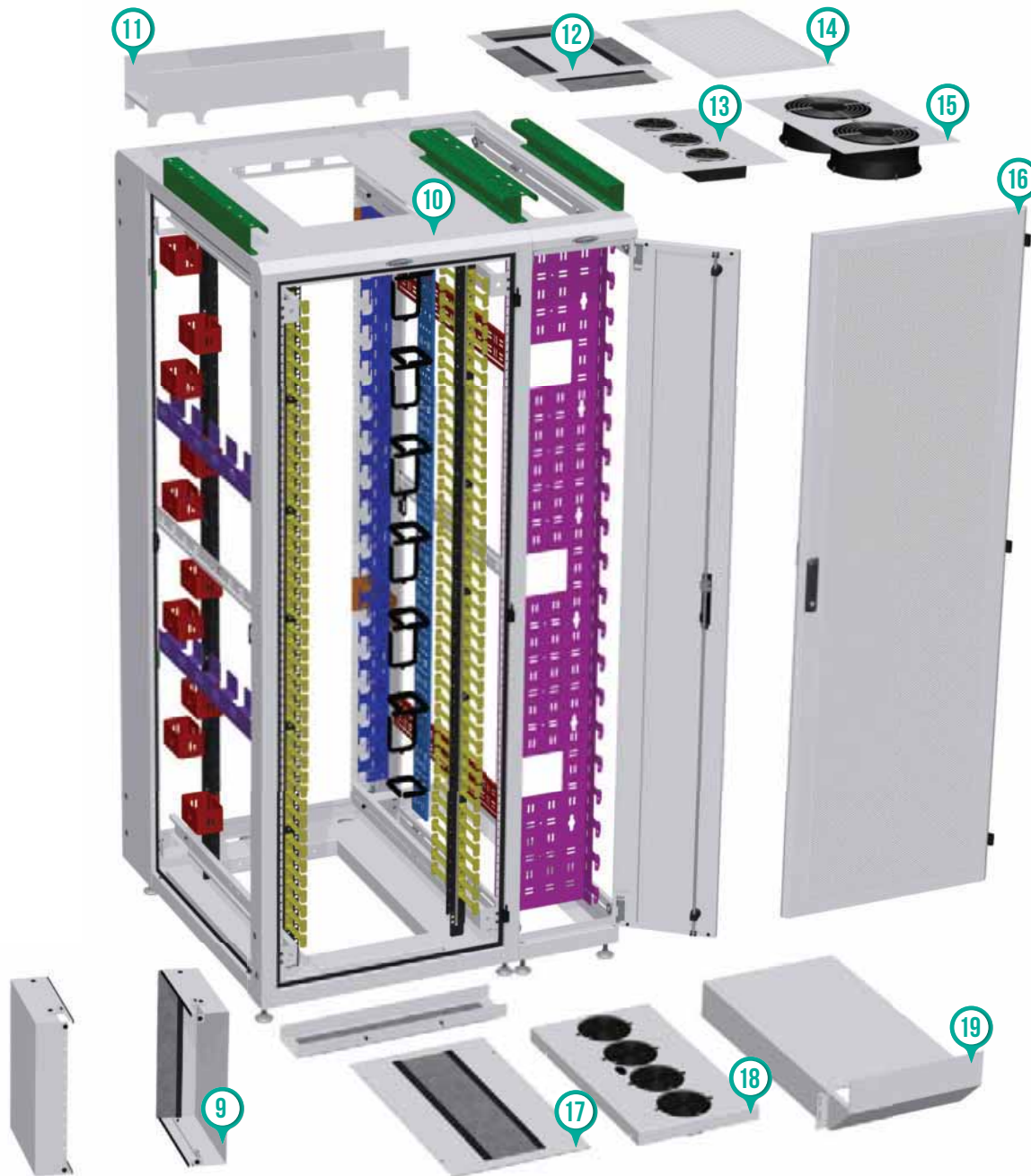


ES ENCLOSURES

ONE ENCLOSURE PLATFORM TO HELP
"FUTURE-PROOF" ANY DATA CENTER

Cooling and Cable Management Accessories can be added to support current and future needs.

SOLUTIONS FROM THE INSIDE, OUT



Side Car
Cable Management "Fingers"
Vertical Cable Bar with 1/4 turn "D" Rings
Horizontal Cable Bar
Vertical Cable Trough
Fixed Ladder Rack Bracket
Cable Management Ring
Horizontal Cable Manager

1. Overhead Containment Panels
2. Aisle Containment Doors
3. Solid Door
4. Split Solid Doors
5. Split Fan Doors
6. Split Mesh Doors
7. Exhaust Chimney
8. Exhaust Chimney Fan Tray
9. Baffle Kit for Side-to-Side Airflow Equipment
10. ES ENCLOSURE
11. Top Cable Trough
12. Top Panel with Brush Grommet
13. Top Panel with 3 Fan (75 CFM each) Assembly
14. Perforated Top Panel
15. Top Panel with 2 Fan (550 CFM each) Assembly
16. Mesh Contour Door
17. Brush Grommet Bottom Panel
18. High Flow Air Manager Fan Tray
19. High Flow Air Manager

D LOCALIZED CONTAINMENT



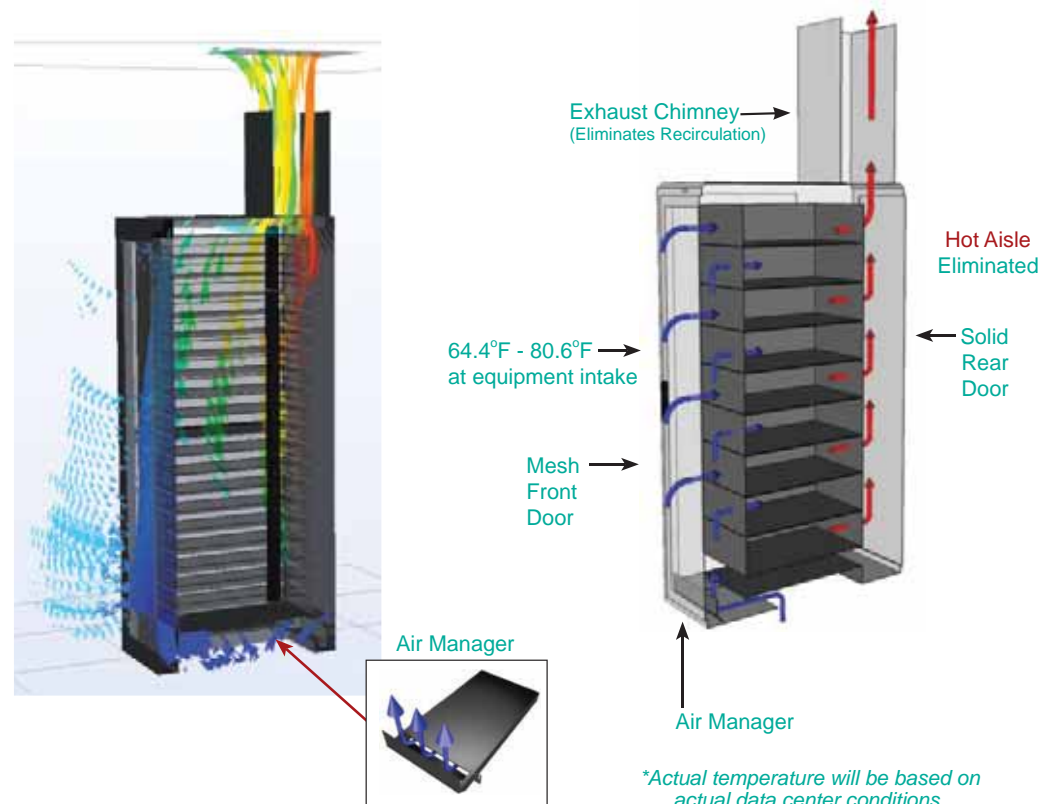
LOCALIZED CONTAINMENT

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.

CONTAINMENT STRATEGIES **D**



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 exhaust air as possible within the data center space.

In this example, a cold aisle strategy is being utilized. Two rows of enclosures, end of aisle containment doors, and thermoplastic panels installed across the top of the enclosures create a contained area. Two, in-row cooling units (one installed in each row) provide cool air to this contained area. The goal for this strategy is to saturate the area in front of the enclosures with this conditioned air and to focus it where it is needed the most: in front of the equipment mounted within the enclosures.



HOT AISLE CONTAINMENT

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

Mesh doors on the rear of the enclosure allow exhaust to escape into the hot aisle, which is contained by aisle doors and vertical thermoplastic containment panels. The hot air naturally rises and is channeled to a drop-ceiling plenum which then directs the exhaust to the hot air return of the data center's CRAC units.

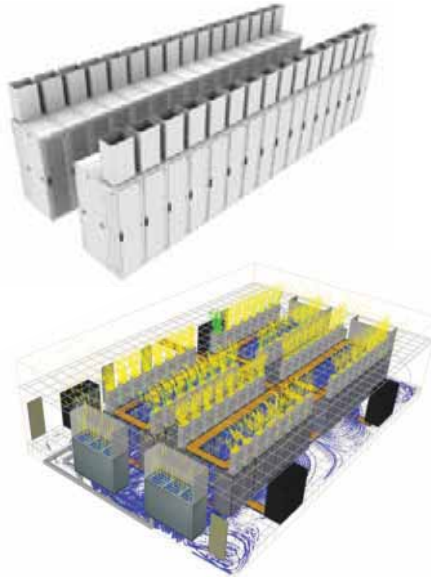
Every data center space is different and many data center managers have their own ideas as to what solution will work best for them. Great Lakes has the technology and flexibility to make any planned solution a data center reality. Our engineering team uses more than 25 years of experience to help you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

D CONTAINMENT STRATEGIES

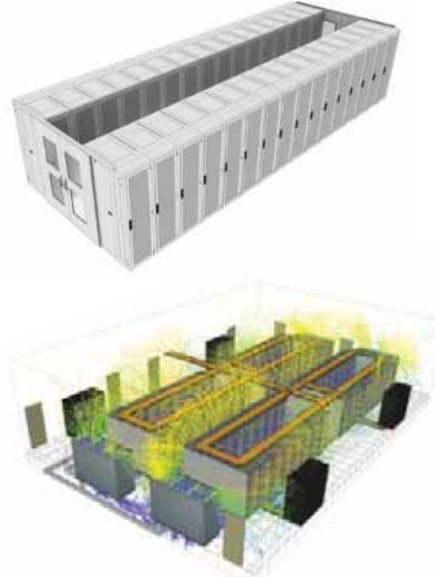
In addition to "end of aisle" containment doors which attach easily to existing enclosures, there are a number of containment products which can be deployed in a variety of strategies, either across or above the aisle.

For those situations which require the installation of containment panels across the aisle or containment products mounted above the enclosures themselves, we have developed strategic alliances with many suppliers that offer containment systems, which consist of structural aluminum framing and either vinyl curtains or thermoplastic panels, to create the desired environmental solution.

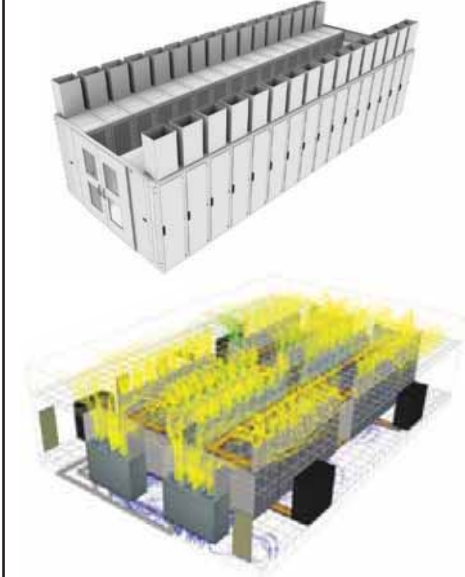
It is important to be familiar (and compliant) with the building and fire code standards in your municipality before closing off a grouping of enclosures, either for hot or cold aisle containment.



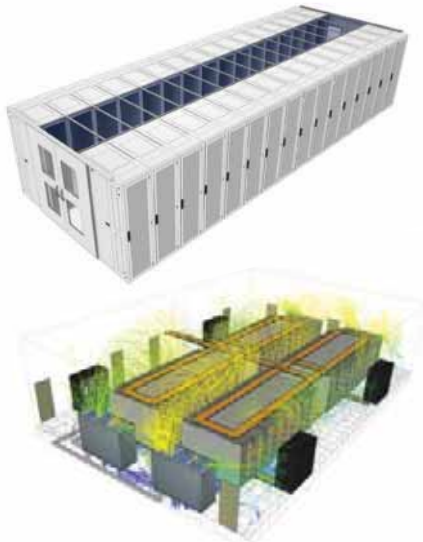
Localized Containment With Air Managers and Chimneys



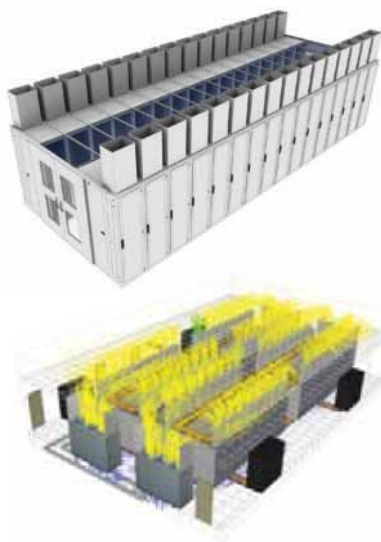
Standard Cold Aisle Containment



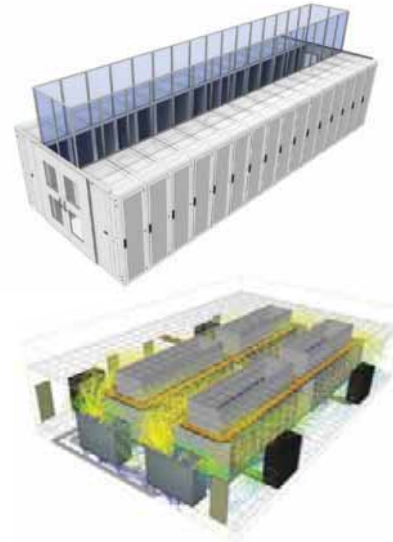
Standard Cold Aisle Containment with Chimney



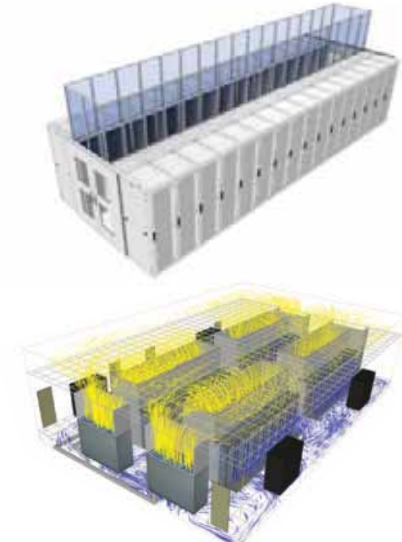
Cold Aisle Containment with Horizontal Panels



Cold Aisle Containment with Horizontal Panels & Chimneys



Cold Aisle Containment with Vertical Panels



Hot Aisle Containment with Vertical Panels

ENHANCED CLOSED-LOOP **D**



COOL 45kW PER RACK!

Ever increasing demands for computing performance have taxed traditional IT platforms and data centers alike.

For more than six years Great Lakes has offered a closed-loop water-cooled enclosure capable of supporting 30kW loads under real world operating conditions.

Great Lakes closed-loop water-cooled technology has allowed customers to consolidate legacy equipment into high density blade servers, to “buy-back” space in their existing data centers. The technology has also allowed for highly efficient and reliable back-up and disaster recovery systems, tapping into existing infrastructure such as the water line returning to the chiller component of the computer room air conditioning (CRAC) system.

In 2016, we have taken that technology a step further in the launch of an enhanced closed loop enclosure, working closely with ScaleMatrix, of San Diego, California.

ScaleMatrix is a revolutionary company which has taken closed-loop water cooling to a level never before seen in the United States. Scale Matrix founders Mark Ortenzi and Chris Orlando have built a state-of-art facility, exclusively utilizing their own design and realizing levels of cooling, security and energy efficiency never before seen in data center operations.

Their innovative Dynamic Density Control™ platform supports 45kW of power and cooling load per cabinet. These highly uncommon capabilities have enabled ScaleMatrix to offer revolutionary solutions spanning high-density colocation and scalable, hyper-efficient cloud services.

D ENHANCED CLOSED-LOOP



45kW rack shown with overhead heat exchanger, integral cable management, and rear DCIM enclosures (above)

CFD Model of Great Lakes' Enhanced Closed-Loop Enclosure containing 11 Dell R920's at 90% capacity for a total of 45kW heat load (at right)



The enclosure offers the highest level of security possible though biometric access handles on both the front and the rear of the enclosure. A tremendous amount of data is collected and processed continuously throughout the enclosure. Results are categorized and reported back to network operations as part of the data center infrastructure management (DCIM) system.

From design to reality, the ScaleMatrix enclosure was exclusively designed to support high-performance computing (HPC) deployments. Classified by industry analysts as something between a high efficiency enclosure and a "Micro-Modular Data Center," the Dynamic Density Control platform is the closest thing to a "data center in a box" ever seen in our industry.

Great Lakes is proud to have been asked to work with ScaleMatrix in the manufacture of the company's Dynamic Density Control platform and we are pleased to be able to introduce our new Enhanced Closed Loop Enclosure, which allows customers to bring ScaleMatrix enclosure cooling technology to their own facilities.

The Enhanced Closed Loop Enclosure is self-contained platform, with all the performance, functionality, monitoring and operational capabilities of the Dynamic Density Control platform one would find in a ScaleMatrix facility, to include fire suppression at the enclosure level. ScaleMatrix personnel will work with Great Lakes customers to install and configure the enclosure, to include proprietary software which controls operational parameters and reports a variety of conditions within the enclosure.

The Great Lakes Enhanced Closed Loop Enclosure is scalable and offers a variety of deployment options for individual locations, private data centers and colocation facilities.

For more information and to learn how you can bring state-of-the-art cooling capabilities to your own data center, talk with your Great Lakes representative or call us at 1-866-TRY-GLCC (1-866-879-4522).



SCALEMATRIX

DATA CENTER PRIVACY PANEL SYSTEM

D



Great Lakes Case & Cabinet has developed a Data Center Privacy Panel System in response to a growing demand for additional layers of privacy (and security) in a colocation facility. This modular system is designed using a variety of panels, posts, door and assembly components which are all designed for easy on-site construction.

System panels made from powder-coated aluminum are designed to utilize a 1.25" x 1.25" square hole pattern to create a private, contained area while still allowing for utilization of ambient conditions within the data center space. Solid panels are also available for greater privacy/security. All systems restrict unauthorized access to the privacy area. The system can only be assembled and maintained from the inside.

- Panels are designed in standard heights of 9.5' & 14'
- The System can be secured from the ceiling to the floor of the data center
- Panels and components are ready for production (Please call for lead times)
- Custom sizes and configurations are easily available to accommodate specific data center layouts and building infrastructure
- Sliding doors with keyed lock as standard, can be assembled right or left hand
- Custom designs are also possible to meet specific customer requirements

For more information on the Great Lakes Data Center Privacy Panel System, please call 1.866.TRY.GLCC (1-866-879-4522).

D ENCLOSURE SECURITY

HIGH SECURITY AT THE ENCLOSURE LEVEL

In the past, the enclosure was simply a place in which to store equipment. With the increased cost of equipment and the exponential increase in the value of data, the enclosure must often be the final layer of security protecting critical infrastructure. Great Lakes can offer a complete layer of security, monitoring all points of entry in real time and utilizing state of the art access control technologies.



BIOMETRIC ACCESS CONTROL

The Great Lakes biometric enclosure solution utilizes technology from Digitus Biometrics, the market leader in advanced access control. This state-of-the-art enclosure security handle serves a single purpose: To create the most secure access control solution possible.

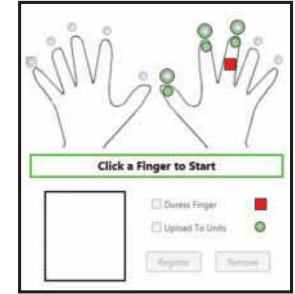
- Biometric access control ensures an indisputable audit trail
- A centralized software platform to monitor in real time, create reports, and manage users and equipment
- Assists in physical security compliance with PCI DSS, HIPAA, FISMA, GDPR, and more
- Mobile authentication options so administrators can grant access to cabinets via tablet or cell phone
- Fingerprints are not stored; instead an 8 point hash is created on user enrollment so no personal identifiable information is stored
- Proprietary protocol to ensure secure communication
- Can be implemented with individual communication nodes or a bus system to allow scalability from one to thousands of entry points



ACCESS CONTROL OFFERINGS

We offer multiple access control solutions that scale from the simple and cost effective solution to feature-rich, premium solutions.

- Electromechanical locks that tie directly into an existing building security system
- Wireless handles that eliminate wiring and simplify installation
- Handles that can communicate with a cell phone or tablet via Bluetooth allowing access at even remote locations
- Stand-alone handles that locally store RFID or PIN numbers for access
- A networked handle where access is granted remotely from a console
- Mechanical handle with three-digit combination lock and master key



SECURITY OFFERINGS AROUND THE CABINET

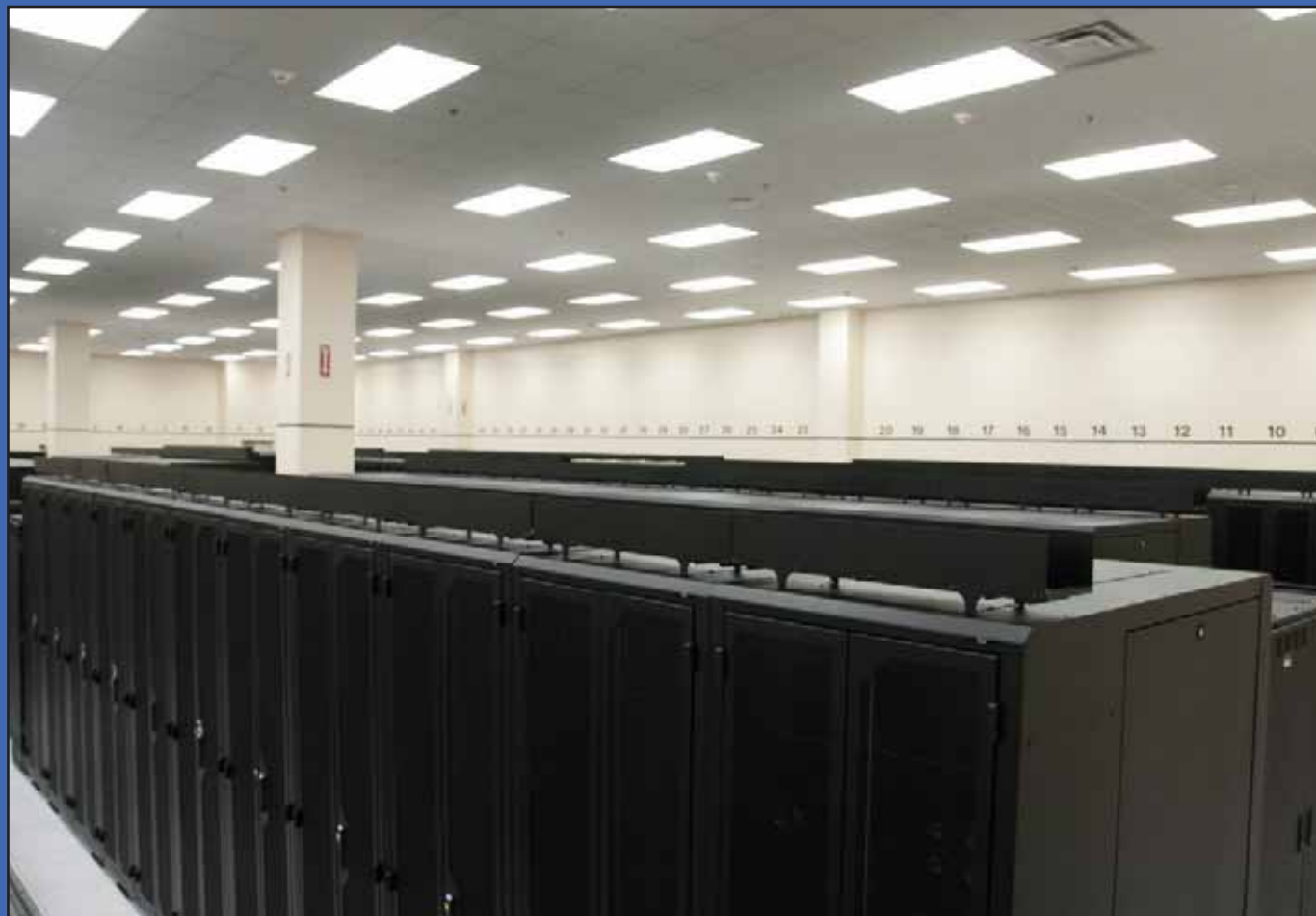
Great Lakes can also protect the multiple points of entry to the enclosure. Security offerings are not only compatible with Great Lakes enclosures, but existing cabinets can be retrofitted to work with these solutions.

- Great Lakes enclosures include a solid door frame in which three-point latching handles are securely mounted
- Tamper detection on any or all points of entry
- EMI/RFI shielding
- Component integration into the enclosure prior to shipping to lower cost and simplify deployment
- Variety of specialized features to address unique or specific mission requirements
- Tamper resistant side panels with single-point entry



ENCLOSURES

ES • EN • E • CO-LO • EZ • NEMA



**GREAT LAKES'
SERIES OF
ENCLOSURES
OFFER
FLEXIBILITY TO
NEARLY ANY
USER IN ANY
ENVIRONMENT**

•
The **ES** Series is ideal for data centers that require advanced cooling, power, and cable management solutions

•
The **EN** is a specific platform for switch and large cable applications

•
The **E** Series protects and stores computer, telecommunications, and other electronic equipment

•
The **CO-LO** Series (available with 2 or 3 compartments) provides one unit for multiple applications/customers

•
The **EZ** Seismic is designed to withstand seismic activity while still accepting a number of accessories

•
The **NEMA 12K** protects equipment in industrial/high dust areas

E CHOOSING THE RIGHT ENCLOSURE



	ES SERVER ENCLOSURES	ENHANCED NETWORKING (EN) ENCLOSURES	E SERIES ENCLOSURES	ZONE 4	NEMA 12K ENCLOSURES
WHY IT'S GREAT!	Ideal for server and data center applications; able to support cooling, cable management, and power needs	Ideal for switch and high density cable applications; no corner posts create an open frame for large cable bundles	Ideal for telecom and networking applications in nearly any environment (small offices to large data centers)	Tested and certified to Seismic Zone 4 NEBS GR-63-CORE testing standards	Provides protection against dust, dirt, water and non-corrosive liquids; Compliant with NEMA Type 12 standard
HEIGHT / RMU	91"H / 48 RMU 84"H / 44 RMU 79"H / 42 RMU 48"H / 24 RMU	91"H / 48 RMU 84"H / 45 RMU 78"H / 42 RMU	84"H / 44 RMU 72"H / 37 RMU 60"H / 31 RMU* 48"H / 24 RMU* 30"H / 13 RMU* <small>*only available with 24"W x 32"D and M6 rails</small>	84"H / 45 RMU	84"H / 45 RMU
WIDTH	24", 30"	32", 40"	24", 29"	30"	24", 30"
OVERALL DEPTH	42", 48"	42", 48"	32", 36"	42"	42"
USABLE DEPTH	48"D = 46" usable depth 42"D = 40" usable depth	48"D = 46" usable depth 42"D = 40" usable depth	36"D = 34" usable depth 32"D = 30" usable depth	40"	38"
MAX. RAIL PLACEMENT	35"	29.75"	30", 34"	35"	33"
EIA-310E MOUNTING RAILS	<ul style="list-style-type: none"> • 3/8" sq. (M6) Mounting (#10-32 available) • All rails fully adjustable, front to rear • RMU markings • Accessory holes (FMP) outside of EIA pattern • Lacing points 	<ul style="list-style-type: none"> • #10-32 Mounting (3/8" sq. (M6) available) • Front rails fixed; rear rails adjustable • RMU markings • Accessory holes (FMP) outside of EIA pattern 	<ul style="list-style-type: none"> • 3/8" sq. (M6) Mounting (#10-32 available) • All rails fully adjustable, front to rear • RMU markings • Accessory holes (FMP) outside of EIA pattern • Lacing points 	<ul style="list-style-type: none"> • 3/8" sq. (M6) Mounting • All rails adjustable • RMU markings • Accessory holes (FMP) outside of EIA pattern 	<ul style="list-style-type: none"> • 3/8" sq. (M6) Mounting • All rails fully adjustable, front to rear • RMU markings
STOCK COLORS	Black, Advantage White	Black	Black, Advantage White, Nitro Blue	Black	Black

CHOOSING THE RIGHT ENCLOSURE E

	ES SERVER ENCLOSURES	ENHANCED NETWORKING (EN) ENCLOSURES	E SERIES ENCLOSURES	ZONE 4 ENCLOSURE	NEMA 12K ENCLOSURES
SHIPPING METHOD	<ul style="list-style-type: none"> Fully assembled on a pallet Accessories installed and shipped in the enclosure where specified 	<ul style="list-style-type: none"> Fully assembled on a pallet Accessories installed and shipped in the enclosure where specified 	<ul style="list-style-type: none"> Fully assembled on a pallet Accessories installed and shipped in the enclosure where specified 	<ul style="list-style-type: none"> Fully assembled on a pallet Accessories installed and shipped in the enclosure where specified 	<ul style="list-style-type: none"> Fully assembled on a pallet Accessories installed and shipped in the enclosure where specified
DOOR OPTIONS	Solid Steel, Plexiglas, Mesh, Mesh Contour, Split Mesh, Split Fan, Split Solid	Mesh, Split Mesh	Solid Steel, Plexiglas, Mesh, Mesh Contour, Split Mesh, Split Fan, Split Solid (Please Note: not all doors will fit on smaller E enclosures)	Mesh	Solid
TOP PANELS	Solid, Perforated, One 10" 550 CFM Fan, Two 10" 550 CFM Fans, Three 75 CFM Fans, Brush Grommet	Solid, Perforated, One 10" 550 CFM Fan, Two 10" 550 CFM Fans, Three 75 CFM Fans, Brush Grommet	Solid, Perforated, One 10" 550 CFM Fan, Two 10" 550 CFM Fans, Three 75 CFM Fans	Solid, Perforated, One 10" 550 CFM Fan, Two 10" 550 CFM Fans, Three 75 CFM Fans, Brush Grommet	Solid
BOTTOM PANELS	Brush Grommet, Solid	N/A	Solid, Filtered, Brush Grommet	N/A	Bottom panel is an integrated part of enclosure
COOLING OPTIONS	<ul style="list-style-type: none"> Exhaust Chimney Air Manager Side Air Flow Baffle Kit Fan Assisted Doors Fan Assisted Top Panels 19" Fan Trays Brush Grommet Kit 	<ul style="list-style-type: none"> Side Air Flow Baffle Kits Fan Assisted Top Panels 19" Fan Trays Brush Grommet Kit 	<ul style="list-style-type: none"> Fan Assisted Doors Fan Assisted Top Panels 19" Fan Trays Brush Grommet Kit 	<ul style="list-style-type: none"> Exhaust Chimney Fan Assisted Top Panels 19" Fan Trays 	<ul style="list-style-type: none"> Single fan assembly for door Vertical mount AC units 19" Fan Trays AC side panels configured with an internal baffle kit
CABLE MANAGEMENT OPTIONS	<ul style="list-style-type: none"> Vertical Cable Troughs Side Car Top Cable Trough Horizontal Cable Trough Ladder Rack Brackets Lacing Bars "Finger" Rail Kits 19" Organizers 	<ul style="list-style-type: none"> Top Cable Trough Ladder Rack Brackets "Finger" Rail Kits 19" Organizers Horizontal Cable Trough 	<ul style="list-style-type: none"> Lacing Bars "Finger" Rail Kits 19" Organizers 	<ul style="list-style-type: none"> Vertical Cable Troughs Top Cable Trough Horizontal Cable Trough Ladder Rack Brackets Lacing Bars "Finger" Rail Kits 19" Organizers 	<ul style="list-style-type: none"> 19" Organizers Vertical Lacing Bars (one in each rear corner come standard)
OTHER KEY FEATURES	<ul style="list-style-type: none"> Durable powder coat finish Two pair of PDU mounting brackets are standard 	<ul style="list-style-type: none"> Durable powder coat finish Large open bottom creates easy under floor access of cable bundles Two pair of PDU mounting brackets are standard Ganged enclosures create a virtual "side car" Quick disconnect grounding kit is standard 	<ul style="list-style-type: none"> Durable powder coat finish 16 position power strip standard with 72" and taller enclosures (smaller power strip for smaller size enclosures) Horseshoe knockouts on top panels allow removal and interchanging of top panels without interfering with cable entry 	<ul style="list-style-type: none"> Durable powder coat finish 3000 lbs. weight capacity (non-seismic) 	<ul style="list-style-type: none"> Durable powder coat finish for industrial environment Removable side panels to accept various AC units
	 <p><small>Now: 91"H and 70"H enclosures are NOT OSHPD approved</small></p>				

Custom sizes and colors are available. Contact your regional manager for details.

ES FEATURES & FUNCTIONS

1. EXHAUST CHIMNEY

The exhaust chimney serves as a duct that assists in the removal of hot air from the enclosure. The process of removing exhaust can be accelerated with the use of optional fan trays.

2. LADDER RACK BRACKETS

Hole patterns on top of the enclosure allow ladder rack brackets (to be used with ladder rack or basket tray) to be installed. The fully welded enclosure frame is able to support heavy cable bundles—eliminating the need for any overhead infrastructure changes.

3. TOP CABLE KNOCKOUTS & TCT

30"W Enclosures feature knockouts on the top of the enclosure to allow overhead cable pass through. Each knockout can be covered with a piece of brush grommet to prevent air recirculation. As an overhead cable option, top cable troughs (TCT) can be installed.

4. AIR MANAGER

Air managers mount to the bottom RMU of the enclosure to “manage” the flow of underfloor conditioned air into the enclosure. Optional fan trays can be added to increase cooling to the front of equipment.

5. VERTICAL CABLE TROUGH

VCTs can be installed by mounting it to PDU brackets. An optional cover can be added to the trough to protect cables.

6. POWER STRIP BRACKETS

Power Strip Mounting Brackets (standard with each enclosure) allow mounting of most major brand PDUs, as well as Great Lakes' Vertical Cable Troughs; the combination of PDUs and VCTs will determine how many of each can be mounted. 42"D enclosures feature brackets with 3 mounting positions; 48"D enclosures feature brackets with 5 mounting positions.

7. BRUSH GROMMET RAIL KIT

The brush grommet rail kit (BGRK) installs along the FMP of the front rails to prevent bypass airflow and hot air recirculation, while still allowing cable pass through. Use the BGRK and filler panels to seal openings within the front of the enclosure.

8. SIDE CABLE KNOCKOUTS AND BRUSH

Vertical knockouts on the side of the frame allow cables to be routed from one enclosure to the next when enclosures are ganged together. After removal of knockouts, edge grommet can be placed around the metal edge to protect cables. Use brush grommet to cover knockouts and prevent air recirculation.

9. GROUNDING KIT

As part of new UL2416 requirements, enclosures are configured with grounding kits that feature quick disconnect wires. When doors and side panels need to be removed, simply pull the wires apart.

10. BUS BAR

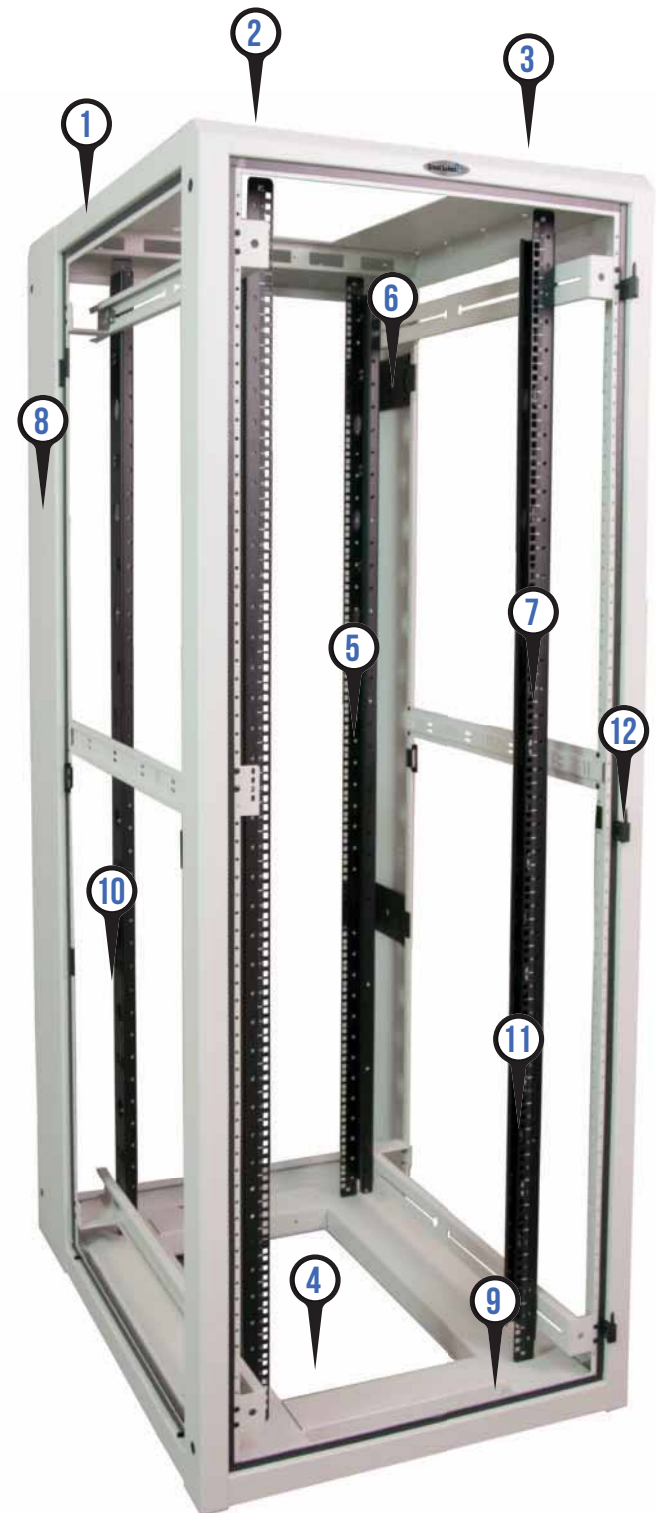
To safeguard equipment, it must be properly grounded with the use of a copper bus bar. Bus Bars install vertically on the back side of the rail utilizing the FMP. Once the bar is installed, each piece of equipment is independently connected to the bus bar.

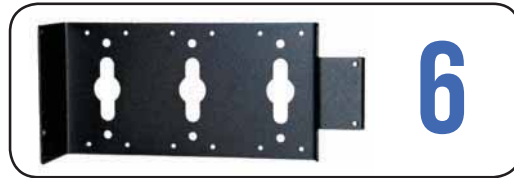
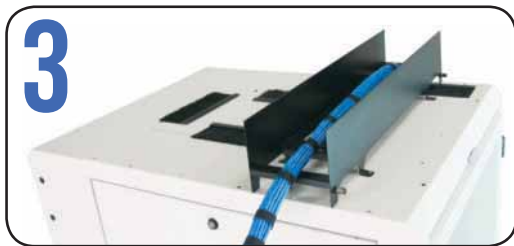
11. MOUNTING PROFILE

Each ES enclosure features four fully adjustable mounting rails, available in 3/8" sq. (M6) or #10-32 mounting. Each rail features a Flexible Mounting Profile (FMP), a series of holes along the rail but outside of the EIA pattern. The FMP allows a variety of accessories to be directly mounted to the rail without taking up RMU space.

12. CONTOUR MESH DOORS

Mesh pattern features 65% open area, allowing the optimal amount of cool air into the enclosure. Fan assemblies can mount to the mesh to eliminate hot spots within the enclosure.





ES GL910ES-3048 SERIES



DIMENSIONS: 91"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: 48 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
560 lbs./98"H x 32"W x 52"D

**GL910ES-3048MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
9101ES-3048	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers
TPES-S	Solid Top Panel
9102E-MC29	Front Contour Mesh Door with locking handle
9102E-MC29	Rear Contour Mesh Door with locking handle
9110-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL910ES-3048MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door

Please call for availability.

GL910ES-3048 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

9102E-29SM	Split Mesh Steel Door Set
9103E-29	Solid Steel Door
9111-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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
BGRK91-30	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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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-78	Copper Bus Bar 70" (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-91-48	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through knockouts
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-91	Vertical Cable Trough
VCT-91C	Cover for VCT-91
VCB-9136	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

9105-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL910ES-2448 SERIES



DIMENSIONS: 91"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: 48 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:
540 lbs./98"H x 32"W x 52"D

PART NO.	DESCRIPTION
GL910ES-2448MS	COMPLETE ENCLOSURE INCLUDES PARTS BELOW
9101ES-2448	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers
TPES-S	Solid Top Panel
9102E-MC24	Front Contour Mesh Door with locking handle
9102E-MC24	Rear Contour Mesh Door with locking handle
9110-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL910ES-2448MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

Please call for availability.

GL910ES-2448 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

9102E-24SM	Split Mesh Steel Door Set
9103E-24	Solid Steel Door
9111-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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
BGRK91-24	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation

Additional Cooling Equipment, pages 139-148

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-78	Copper Bus Bar (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-91-48	Brush Grommet to cover rear vertical cable pass through
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-91	Vertical Cable Trough
VCT-91C	Cover for VCT-91
VCB-9136	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

9105-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL910ES-3042 SERIES



DIMENSIONS: 91"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: 48 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
540 lbs./98"H x 32"W x 45"D

**GL910ES-3042MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
9101ES-3042	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers
TPES-S	Solid Top Panel
9102E-MC29	Front Contour Mesh Door with locking handle
9102E-MC29	Rear Contour Mesh Door with locking handle
9110-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL910ES-3042MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door

Please call for availability.

GL910ES-3042 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

9102E-29SM	Split Mesh Steel Door Set
9103E-29	Solid Steel Door
9111-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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-FTES30	Air Manager Fan Tray, 600 CFM
BGRK91-30	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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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-78	Copper Bus Bar (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-91	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through knockouts
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-91	Vertical Cable Trough
VCT-91C	Cover for VCT-91
VCB-9136	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

9105-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL910ES-2442 SERIES



DIMENSIONS: 91"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: 48 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:
520 lbs./98"H x 32"W x 45"D

**GL910ES-2442MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
9101ES-2442	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers
TPES-S	Solid Top Panel
9102E-MC24	Front Contour Mesh Door with locking handle
9102E-MC24	Rear Contour Mesh Door with locking handle
9110-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL910ES-2442MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

Please call for availability.

GL910ES-2442 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

9102E-24SM	Split Mesh Steel Door Set
9103E-24	Solid Steel Door
9111-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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
BGRK91-24	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation

Additional Cooling Equipment, pages 139-148

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-78	Copper Bus Bar (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-91	Brush Grommet to cover rear vertical cable pass through
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-91	Vertical Cable Trough
VCT-91C	Cover for VCT-91
VCB-9136	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

9105-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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-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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	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-3048MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door

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 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-84-48	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through knockouts
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
VCB-8436	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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-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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:

500 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	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

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

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 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on contour mesh door
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 139-148

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 135-138

CABLE MANAGEMENT

BGS-84-48	Brush Grommet for 84"H x 48"D enclosure; to cover rear vertical cable pass through Cable Management Post, 3"
CMP	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"
ESC-K12	Ladder Rack Bracket for 12"W ladder rack; includes hardware
LRB-12	Ladder Rack Bracket for 18"W and 24"W ladder rack; includes hardware
LRB-24	Top Cable Trough and hardware
TCT24	Vertical Cable Trough
VCT-84	Cover for VCT-84
VCT-84C	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
VCB-8436	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-25	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
CM-26	

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
515 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	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-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 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-84	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through
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
VCB-8436	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:
490 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	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

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

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 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on contour mesh door
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 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-84	Brush Grommet to cover rear vertical cable pass through
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
VCB-8436	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

8405-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL790ES-3048 SERIES



DIMENSIONS: 79"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: 42 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

510 lbs./85"H x 32"W x 52"D

**GL790ES-3048MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7901ES-3048	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7902E-MC29	Front Contour Mesh Door with locking handle
7902E-MC29	Rear Contour Mesh Door with locking handle
7910-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL790ES-3048MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL790ES-3048MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Please call for availability.

GL790ES-3048 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7902E-29SM	Split Mesh Steel Door Set
7903E-SF29	Split Fan Door Set
7903E-29	Solid Steel Door
7911-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-79	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through
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-79	Vertical Cable Trough
VCT-79C	Cover for VCT-79
VCB-7936	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7905-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL790ES-2448 SERIES



DIMENSIONS: 79"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: 42 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:
480 lbs./85"H x 32"W x 52"D

**GL790ES-2448MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7901ES-2448	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to five mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7902E-MC24	Front Contour Mesh Door with locking handle
7902E-MC24	Rear Contour Mesh Door with locking handle
7910-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL790ES-2448MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL790ES-2448MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

Please call for availability.

Shown with optional accessories,
drawings can be found on page 162



GL790ES-2448 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7902E-24SM	Split Mesh Steel Door Set
7903E-SF24	Split Fan Door Set
7903E-24	Solid Steel Door
7911-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-79	Brush Grommet to cover rear vertical cable pass through
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-79	Vertical Cable Trough
VCT-79C	Cover for VCT-79
VCB-7936	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7905-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL790ES-3042 SERIES



DIMENSIONS: 79"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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 3300 lbs.

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

**GL790ES-3042MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7901ES-3042	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7902E-MC29	Front Contour Mesh Door with locking handle
7902E-MC29	Rear Contour Mesh Door with locking handle
7910-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL790ES-3042MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL790ES-3042MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Shown with optional accessories,
drawings can be found on page 162



GL790ES-3042 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7902E-29SM	Split Mesh Steel Door Set
7903E-SF29	Split Fan Door Set
7903E-29	Solid Steel Door
7911-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
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-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 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-79	Brush Grommet to cover rear vertical cable pass through
BGT	Brush Grommet to cover top cable pass through
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-79	Vertical Cable Trough
VCT-79C	Cover for VCT-79
VCB-7936	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7905-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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 GL790ES-2442 SERIES



DIMENSIONS: 79"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-E Compliant

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

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

**GL790ES-2442MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7901ES-2442	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7902E-MC24	Front Contour Mesh Door with locking handle
7902E-MC24	Rear Contour Mesh Door with locking handle
7910-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL790ES-2442MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL790ES-2442MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

*** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.**

Please call for availability.

GL790ES-2442 ACCESSORIES **ES**

PART NO. DESCRIPTION

DOORS & SIDE PANELS

7902E-24SM	Split Mesh Steel Door Set
7903E-SF24	Split Fan Door Set
7903E-24	Solid Steel Door
7911-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on 24"W contour mesh door
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 139-148

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 (isolated)

Additional Power Strips, pages 135-138

CABLE MANAGEMENT

BGS-79	Brush Grommet 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-79	Vertical Cable Trough
VCT-79C	Cover for VCT-79
VCB-7936	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7905-ES2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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-E Compliant

STOCK COLOR: Black

RAILS RATED AT: 2000 lbs.; with HD Kit, 3300 lbs.*

SHIPPING WEIGHT AND PALLET SIZE:

310 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware; includes two pairs of PDU button mount brackets with up to three mounting positions per side

7209-HD	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

** HD Kit can only be factory installed; it must be specified at the time the enclosure is ordered.*

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
4811-36ELL	Pair of Locking Lift-off Vented Side Panels

Additional Doors, pages 120-123

TOP PANELS

TPES-P	Perforated Top Panel
TPES-B	Top Panel with Brush Grommet
TPES-F10	Top Panel with fan guard and one 10", 550 CFM fan
TPES-2F10	Top Panel with fan guards and two 10", 550 CFM fans
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
GLHL10031CP	Pack of 10, one RMU universal plastic filler panels for 19" mounting
GLHL10033CP	Pack of 5, two RMU universal plastic filler panels for 19" mounting
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

Additional Cooling Equipment, pages 139-148

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 135-138

CABLE MANAGEMENT

CMP	Cable Management Post, 3"
VCB-4836	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"

Additional Cable Management, pages 149-155

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 132-133

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

4805-E2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (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

EN FEATURES & FUNCTIONS

1. OVERHEAD CABLING: TCT & LRB

Knockouts on the top of the enclosure allow overhead cable pass through. Top Cable Troughs (TCT) and Ladder Rack Brackets (LRB) facilitate overhead cabling while eliminating the need for any infrastructure changes. LRB are available in a 3" fixed height or adjustable heights (6.5-11.5" and 14-24") and can support 12-24" wide ladder rack. To prevent bypass airflow, knockouts can be covered with brush grommet.

2. BRUSH GROMMET RAIL KIT

The brush grommet rail kit (BGRK) installs along the front rails to prevent bypass airflow and hot air recirculation, while still allowing cable pass through. The BGRK features a perforated, thin metal strip that attaches to the FMP. When baffle kits or other accessories are installed along the rail, sections of the metal can be removed to allow installation of the BGRK.

3. POWER STRIP BRACKETS

One pair of PDU brackets is installed on each rear corner post. Brackets allow button mounting of up to two PDUs (mounting depends on width of the PDU) and can be repositioned vertically to accept various PDU sizes.

4. MOUNTING RAILS

EN enclosures feature fixed front rails, fixed rear corner posts, and adjustable rear rails (rear rails move independently of corner posts). Rails are available in 3/8" sq. (M6) or #10-32 mounting.

5. FLEXIBLE MOUNTING PROFILE

Each rail and post features Great Lakes' Flexible Mounting Profile (FMP), a series of holes along the rail but outside of the EIA pattern. The FMP allows a variety of accessories--including ZR brackets which allow installation of 19" equipment--to be directly mounted to the rail without taking up RMU space.

6. CABLE MANAGEMENT FINGERS

"Fingers" are standard on each EN configuration and are installed along the FMP of the front rails and rear corner posts. Each 7 RMU section of "fingers" can be moved and installed in any of the FMP holes.

7. MESH DOORS

Single mesh doors are dual hinged to allow left or right hand opening. When two enclosures are ganged together, doors can open in opposite directions, creating a large space where cables are easily accessible.

8. BAFFLE KITS

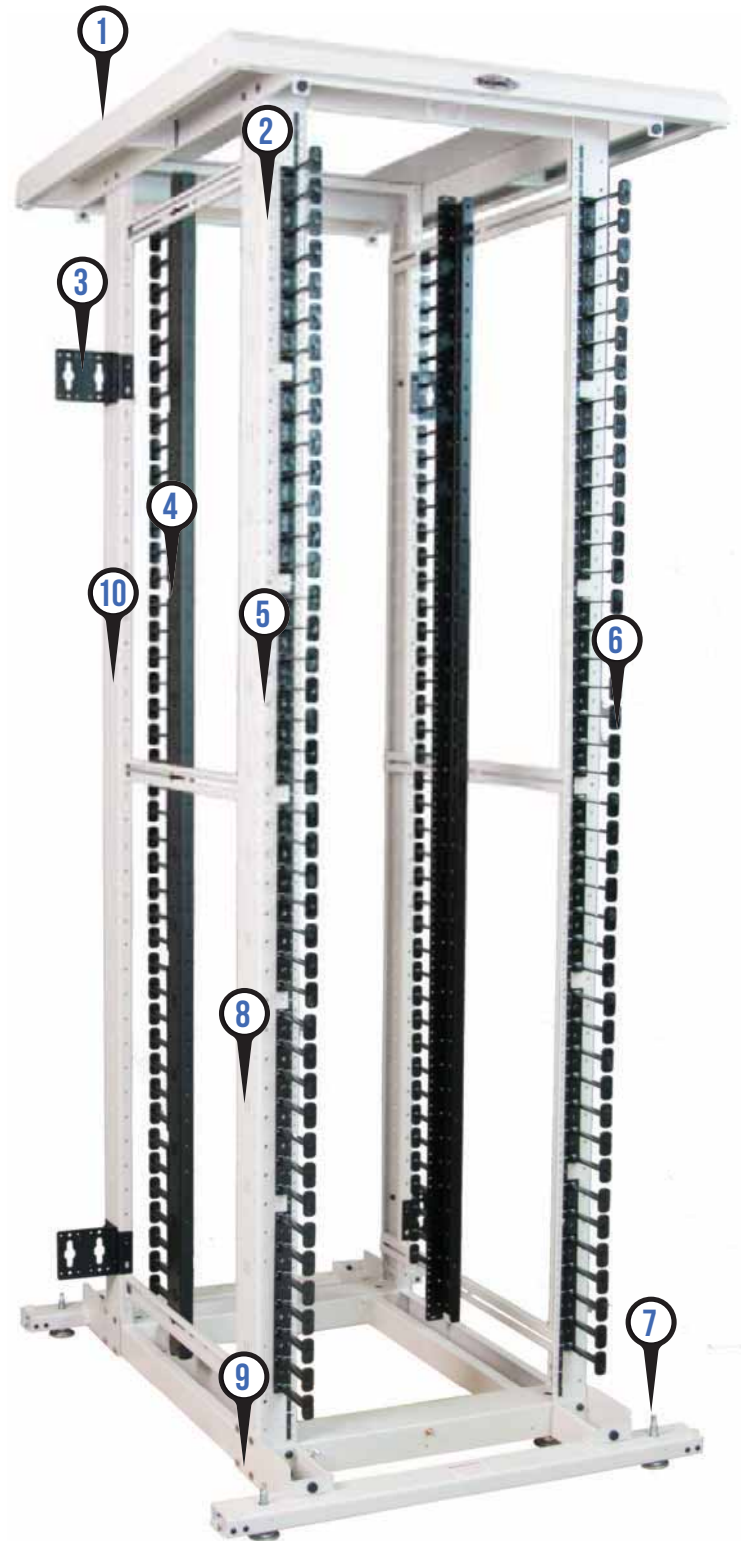
Optional baffle kits can be added to create proper airflow for side-to-side airflow equipment, such as Cisco switches. Baffles direct cool air into the right of equipment and exhaust is directed out the left of equipment where it is able to leave the rear of the enclosure. Baffle kits are available for popular size switches, ranging from 7 to 25 RMU.

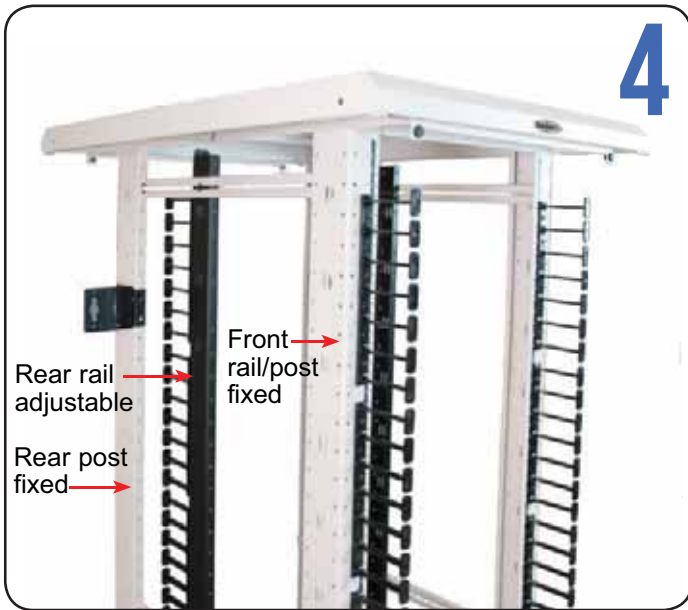
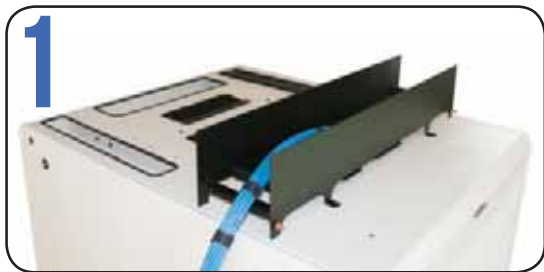
9. CASTERS

EN Caster Assemblies can be installed for easy movement of the enclosure. When casters are installed and equipment is mounted, all eight levelers (pre-installed at the factory) must be leveled.

10. HORIZONTAL CABLE MANAGER

The horizontal cable manager installs on the side of the rails (using the FMP) to support cables from the front to rear of the enclosure. Obrounds allow cables to be secured with cinch straps.





EN ENHANCED NETWORKING



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. EN enclosures are able to be ganged with or without side panels installed.

EN CONFIGURATIONS

EN Enclosures are available in three configurations: as a complete enclosure, with doors only, and just a frame. Rails can be either tapped #10-32 or 3/8" sq. (M6)



The GL910ENT-4048SSS (pictured) includes #10-32 rails with cable management fingers on all rails, 8 levelers, solid sides, solid top, split mesh front and rear doors



The GL910ENT-4048SSS-NS (pictured) includes #10-32 rails with cable management fingers on all rails, 8 levelers, solid top, split mesh front and rear doors

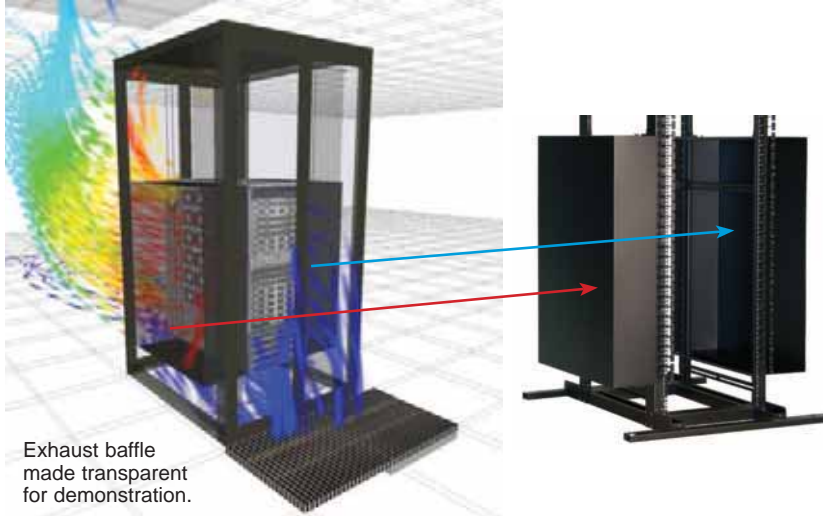
Configuration shown with optional baffle kit



The GL910ENT-4048-FK (pictured) is an Enclosure frame (#10-32 rails with cable management fingers on all rails), 8 levelers, and solid top

Configuration shown with optional baffle kit

ENHANCED NETWORKING EN



Exhaust baffle made transparent for demonstration.

BAFFLE KITS

Baffle Kits create proper airflow for switches, and side-to-side airflow equipment, as suggested by manufacturers 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!

CHOOSING YOUR BAFFLE KIT AND ENCLOSURE

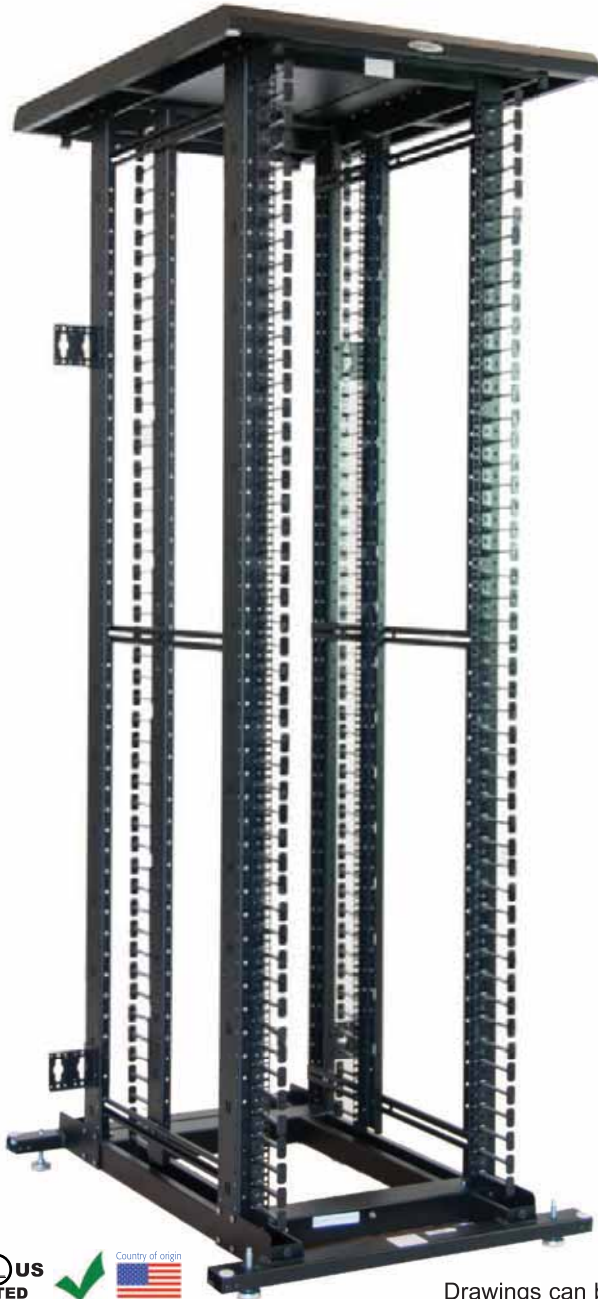
Based on your switch/equipment, choose the appropriate EN or ES enclosure. Take into consideration your cable management, cooling, and power needs; each enclosure addresses these needs in different ways. Baffle Kit part numbers are determined by whether an EN or ES enclosure is selected.

The chart below shows which kits accommodate various CISCO switches. Solutions for Juniper and Brocade equipment is also available. For more information, please call 1.866.TRY.GLCC.

	Recommended Great Lakes Enclosure		Great Lakes Baffle Kit Part No.		CISCO Equipment Dimensions		CISCO Recommended Clearances		
	EN Series Enclosure	ES Series Enclosure	EN Baffle Kit	ES Baffle Kit	RMU	Depth	Cabinet Installation Distance from chassis to inside of cabinet	Rack Installation (No Side Panels) Distance between racks	Distance from chassis to wall
7000 Series									
7018 ¹	40"W x 48"D	N/A	ENSAB25	N/A	25	33.1"	11.00"	6.00"	11.00"
7010 ²	32/40"W x 48"D	30"W x 48"D	N/A	N/A	21	33.1"	N/A	N/A	N/A
7009	40"W x 48"D	N/A	ENSAB14A	N/A	14	24.10"	11.00"	6.00"	11.00"
7004 ³	40"W x 48"D	N/A	ENSAB7A	N/A	7	24.00"	11.00"	6.00"	11.00"
9500 Series									
9513	32"W x 42/48"D	30"W x 42/48"D	ENSAB14D	ESSAB14D	14	28.00"	6.00"	12.00"	6.00"
9509 ⁴	32"W x 42/48"D	30"W x 42/48"D	ENSAB14	ESSAB14	14	18.40"	2.50"	6.00"	2.50"
6500 Series									
6513(-E)	32"W x 42/48"D	30"W x 42/48"D	ENSAB19	ESSAB19	19	18.10"	6.00"	12.00"	6.00"
6509(-E)	32"W x 42/48"D	30"W x 42/48"D	ENSAB14	ESSAB14	14	18.10"	6.00"	12.00"	6.00"
6506(-E)	32"W x 42/48"D	30"W x 42/48"D	ENSAB11	ESSAB11	11	18.10"	6.00"	12.00"	6.00"

¹ Four post mounting is required with a rail placement of 24". ² The 7010 has front to rear airflow; no left or right side clearance is required; when installed in a cabinet, 5.00" rear clearance is required. ³ The 7004 requires 11.00" clearance on the right side only; exhaust exits from the rear, no rear clearance required. ⁴ 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 GL910EN-32 ENCLOSURES



DIMENSIONS: 91"H x 32"W x (42" or 48")D
RACK SPACES: 48 RMU • 19" EIA 310-E Compliant
STOCK COLOR: Black
RAILS RATED AT: 2000 lbs.
SHIPPING WEIGHT AND PALLET SIZE:
 390 lbs./98"H x 35"W x 45"D, 410 lbs./98"H x 35"W x 52"D

91"H X 32"W X 42"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL910ENT-3242MSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides
GL910ENT-3242MSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included
GL910ENT-3242-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

91"H X 32"W X 48"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL910ENT-3248MSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides
GL910ENT-3248MSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included
GL910ENT-3248-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number. Please call for availability.

Drawings can be found on page 163

GL910EN-40 ENCLOSURES EN



DIMENSIONS: 91"H x 40"W x (42" or 48")D

RACK SPACES: 48 RMU • 19" EIA 310-E Compliant

STOCK COLOR: Black

RAILS RATED AT: 2000 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

480 lbs./98"H x 43"W x 45"D, 500 lbs./98"H x 43"W x 52"D

91"H X 40"W X 42"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL910ENT-4042SSSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides
GL910ENT-4042SSSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included
GL910ENT-4042-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

91"H X 40"W X 48"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL910ENT-4048SSSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides
GL910ENT-4048SSSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included
GL910ENT-4048-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number. Please call for availability.



Drawings can be found on page 163

EN GL840EN-32 ENCLOSURES



DIMENSIONS: 84"H x 32"W x (42" or 48")D

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

STOCK COLOR: Black

RAILS RATED AT: 2000 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

350 lbs./90"H x 35"W x 45"D, 370 lbs./90"H x 35"W x 52"D

84"H X 32"W X 42"D EN ENCLOSURES

PART NO.

GL840ENT-3242MSS

DESCRIPTION

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides

GL840ENT-3242MSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included

GL840ENT-3242-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

84"H X 32"W X 48"D EN ENCLOSURES

PART NO.

GL840ENT-3248MSS

DESCRIPTION

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides

GL840ENT-3248MSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included

GL840ENT-3248-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number.

Shown with optional accessories,
drawings can be found on page 163

GL840EN-40 ENCLOSURES EN



DIMENSIONS: 84"H x 40"W x (42" or 48")D

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

STOCK COLOR: Black

RAILS RATED AT: 2000 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

455 lbs./90"H x 43"W x 45"D, 475 lbs./90"H x 43"W x 52"D

84"H X 40"W X 42"D EN ENCLOSURES

PART NO.

DESCRIPTION

GL840ENT-4042SSS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides

GL840ENT-4042SSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included

GL840ENT-4042-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

84"H X 40"W X 48"D EN ENCLOSURES

PART NO.

DESCRIPTION

GL840ENT-4048SSS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides

GL840ENT-4048SSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included

GL840ENT-4048-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number.



Shown with optional accessories,
drawings can be found on page 163

EN GL780EN-32 ENCLOSURES



DIMENSIONS: 78"H x 32"W x (42" or 48")D

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

STOCK COLOR: Black

RAILS RATED AT: 2000 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

330 lbs./85"H x 35"W x 45"D, 350 lbs./85"H x 43"W x 52"D

78"H X 32"W X 42"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL780ENT-3242MSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides
GL780ENT-3242MSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included
GL780ENT-3242-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

78"H X 32"W X 48"D EN ENCLOSURES

PART NO.	DESCRIPTION
GL780ENT-3248MSS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides
GL780ENT-3248MSS-NS	Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included
GL780ENT-3248-FK	Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number. Please call for availability.

GL780EN-40 ENCLOSURES EN



DIMENSIONS: 78"H x 40"W x (42" or 48")D

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

STOCK COLOR: Black

WEIGHT CAPACITY: 2000 lbs. on levelers or bolted to floor

SHIPPING WEIGHT AND PALLET SIZE:

415 lbs./85"H x 43"W x 45"D, 435 lbs./85"H x 43"W x 52"D

78"H X 40"W X 42"D EN ENCLOSURES

PART NO.

GL780ENT-4042SSS

DESCRIPTION

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides

GL780ENT-4042SSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included

GL780ENT-4042-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

78"H X 40"W X 48"D EN ENCLOSURES

PART NO.

GL780ENT-4048SSS

DESCRIPTION

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides

GL780ENT-4048SSS-NS

Enclosure with two pairs of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included

GL780ENT-4048-FK

Frame with two pairs of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers and solid top; doors and sides not included

For enclosure with 3/8" sq. (M6) rails, remove 'T' from part number. Please call for availability.



Drawings can be found on page 163

E FEATURES & FUNCTIONS

1. TOP PANEL OPTIONS

A variety of fan top panels are available for the E Series, including panels with three, 75 CFM fans; one, 10", 550 CFM fan; and two, 10" CFM fans. Solid and perforated tops are also available.

2. HORSESHOE KNOCKOUTS ON TOP PANELS

All E Series top panels feature two, 4" horseshoe knockouts. Knockouts allow cables to be routed overhead; top panels can be removed and interchanged without interfering with equipment.

3. VERTICAL & HORIZONTAL CABLE BARS

To help secure cables inside the enclosure, Cable Management Bar Kits can be used to route cable from the front to rear, and from bottom to top. Kits include one vertical bar, two horizontal bars, and six, 12"L cinch straps. Each bar features a square hole pattern that accepts optional ¼ turn "D" rings.

4. 19" FAN TRAYS

Use optional fan trays to eliminate hot spots within the enclosure. Fan trays are front to rear mount adjustable and are available with three, six or nine, 75 CFM fan assemblies.

5. COLOR OPTIONS

All E series enclosures are stocked in three colors, including: Black, Advantage White, and Nitro Blue. Custom colors are available and require no minimum order quantity.

6. GROUNDING KIT

As part of new UL2416 requirements, enclosures are configured with grounding kits that feature quick disconnect wires. When doors and side panels need to be removed, simply pull the wire apart.

7. VARIETY OF SIZES

Great Lakes' most extensive line of enclosures is the E Series, with sizes ranging from 30 (13 RMU) to 84"H (44 RMU). The E Series serves as the foundation of Great Lakes enclosures, providing basic cable management, cooling, and power functions for a variety of applications.

8. DOOR HANDLE OPTIONS

Locking swing handles are standard on front and rear doors, but can easily be switched to provide increased security. Choose from a combination and key handle, padlock and key handle, or simply a padlock.

9. BOTTOM PANELS

A variety of bottom panels can be added to the enclosure, including brush grommet panels; cable is able to pass through while still maintaining raised floor air pressure.

10. PDU MOUNTING BRACKETS

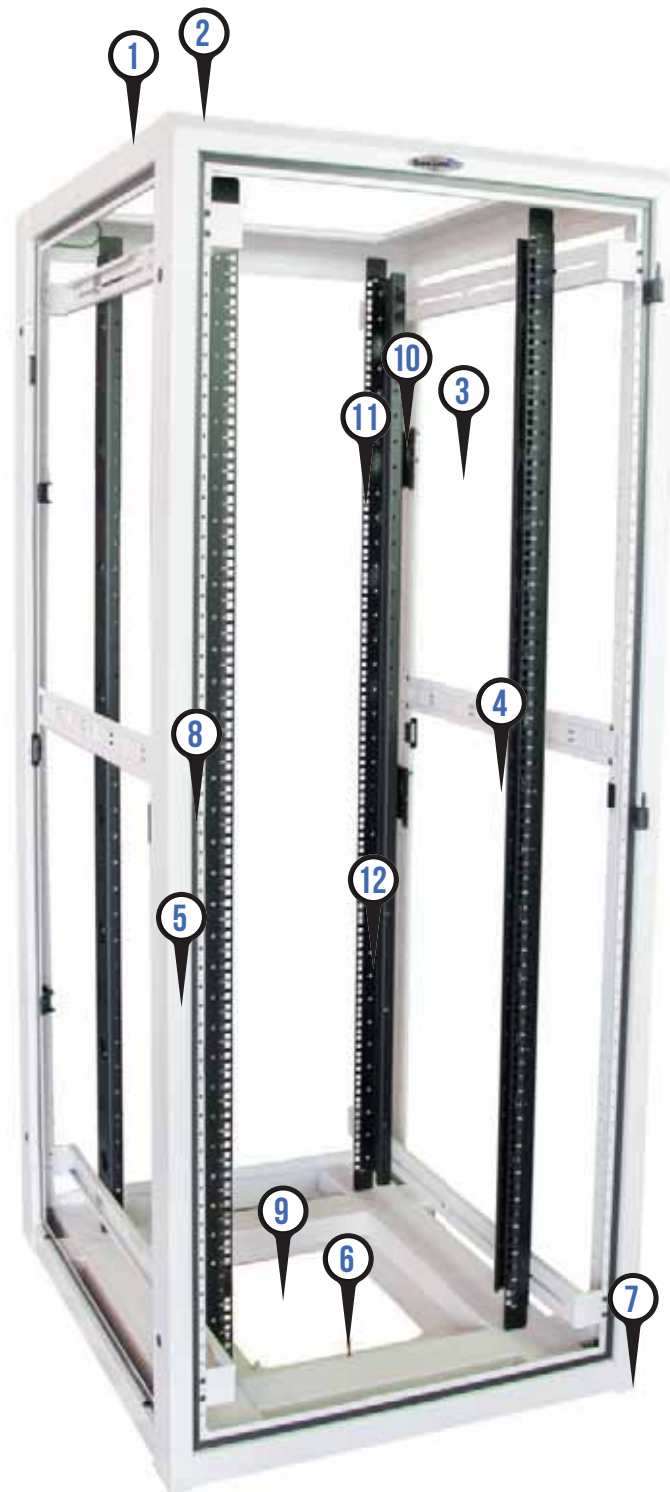
Optional Power Strip mounting Brackets can be installed in the rear corner of the enclosure to accommodate button mounting of PDUs from nearly any manufacturer.

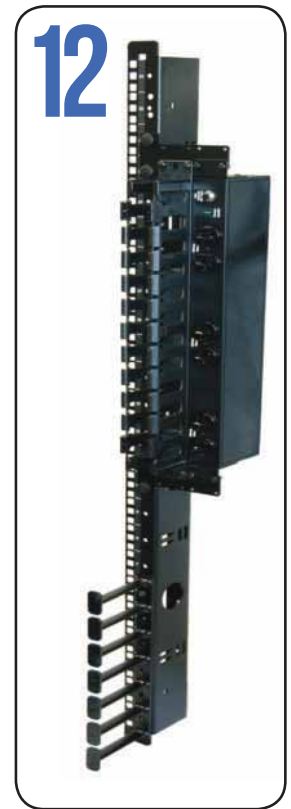
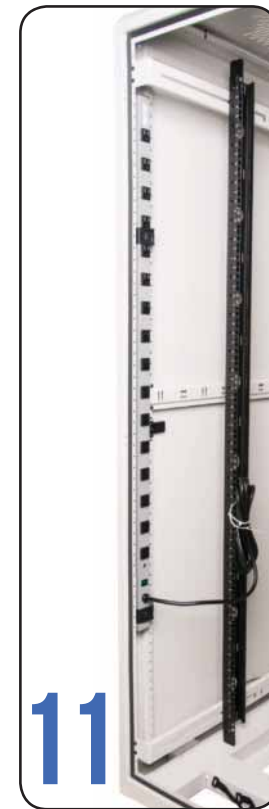
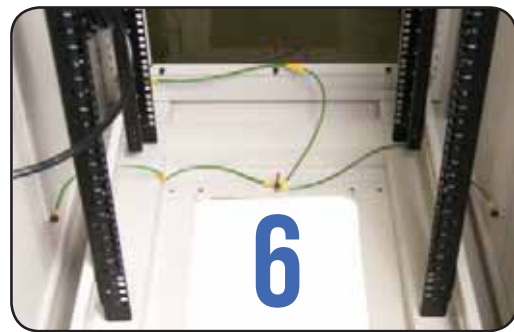
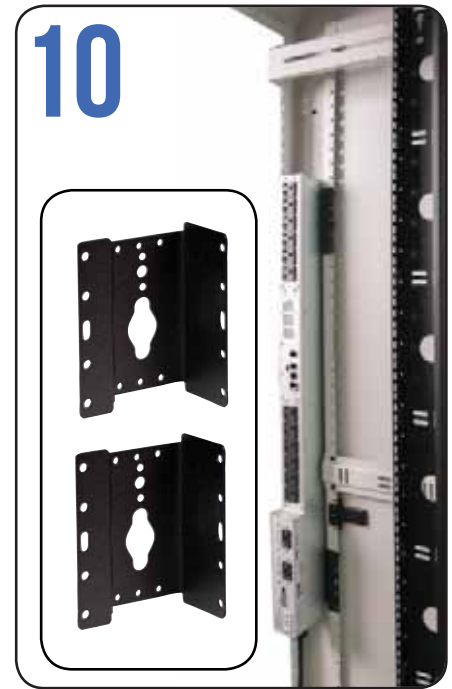
11. POWER STRIPS

A 16 position, 15 amp power strip is standard with 72"H and larger enclosures. Power strips are installed vertically in the rear of the enclosure using snap in clips. 48 and 60"H enclosures feature an 8 position power strip for vertical mounting, while a 6 position power strip for 19" mounting is standard in 30"H enclosures.

12. FLEXIBLE MOUNTING PROFILE

Each rail features Great Lakes' Flexible Mounting Profile (FMP), a series of holes along the rail but outside of the EIA pattern. The FMP allows a variety of Great Lakes accessories, including cable management "fingers" and ZR brackets, to be directly mounted to the rail without taking up RMU space. ZR Brackets can be installed in 29"W enclosures to accommodate mounting of 1 and 2 RMU, 19" EIA equipment.





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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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)

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

Shown with optional accessories,
drawings can be found on page 164

GL840E-2936 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-8432	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware

7209-HD One Set of 4 Adjustable Levelers (2.5"H)

TPE-29F 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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL840E-2932 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-8432	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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-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)

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

Shown with optional accessories,
drawings can be found on page 164

GL840E-2436 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-8436	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

Shown with optional accessories,
drawings can be found on page 164



GL840E-2432 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-8432	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware

7209-HD 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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL720E-2936 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-7236	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL720E-2932 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-7232	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware

7209-HD 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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL720E-2436 ACCESSORIES

E

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

Additional Doors, pages 120-123

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 128-129

CABLE MANAGEMENT

VCB-7236	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 1500 lbs.

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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL720E-2432 ACCESSORIES

E

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-7232	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 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 149-155

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 132-133

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 (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans

Additional Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

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 3/8" sq. (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-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware

7209-HD 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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL600E-2432 ACCESSORIES

E

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 120-123

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 128-129

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 149-155

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 132-133

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 (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 Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

6005-E2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (M6) cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-HD4	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-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL480E-2432 ACCESSORIES **E**

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 120-123

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 128-129

CABLE MANAGEMENT

VCB-8432	Vertical Cable Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps); use with optional 1/4 turn "D" rings
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"
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 149-155

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 132-133

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 (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 Power Strips, pages 135-138
Additional Cooling Equipment, pages 139-148

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

4805-E2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (M6) cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-HD4	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



DIMENSIONS: 30"H x 24"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 13 RMU • 19" EIA 310-E Compliant

STOCK COLORS: Black, Advantage White, or Nitro Blue

RAILS RATED AT: 600 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", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-HD	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

For enclosure without power strip, add 'NP' to part number; for enclosure without side panels, add 'NS' to part number.

GL300E-2432 ACCESSORIES

E

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

Additional Doors, pages 120-123

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 128-129

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 149-155

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

Additional Shelves, pages 132-133

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 (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 Power Strips, pages 135-138

Additional Cooling Equipment, pages 139-148

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

3005-E2P	Pair of 19" EIA Mounting Rails to accept 3/8" sq. (M6) cage nuts; includes hardware
HDW-105-50	Package of 50 M6 cage nuts with screws (12mm screw length)
G101	Networking/Ganging Kit
7209-HD4	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

EZ ZONE 4 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.

DIMENSIONS: 84"H x 30"W x 42"D
Maximum rail placement and usable inside depth: 35"

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

STOCK COLOR: Black

RAILS RATED AT: 1000 lbs. (Seismic Certified)

SHIPPING WEIGHT AND PALLET SIZE:
500 lbs./90"H x 32"W x 45"D

**GL840EZ-3042S COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
8401EZ-3042	Seismic frame with two pairs of black powder coated, universal 19", 3/8" sq. (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.

Please call for availability.



Drawings can be found on page 165

ZONE 4 ENCLOSURE EZ

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 149-155

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 132-133

POWER STRIPS & COPPER BUS BAR

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 135-138

HARDWARE

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

N NEMA 12K ENCLOSURE



Hinge and Gasketing



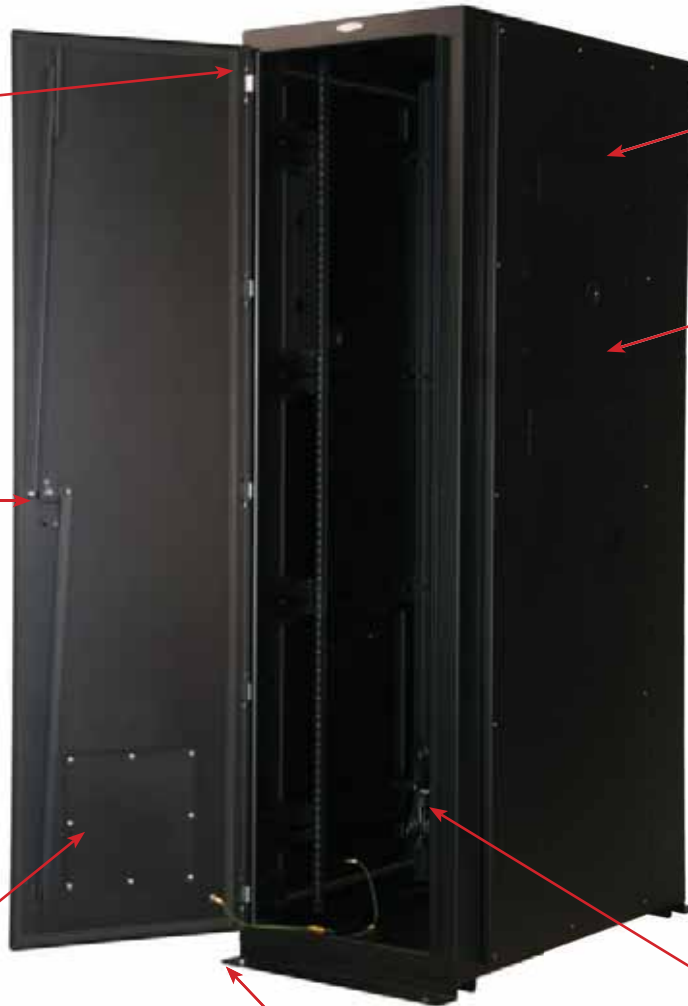
Heavy Duty Handle with 3 point latch



Cable Access Knockouts



Optional Fan Assembly (includes filter)



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



Vertical Lacing Bar in each rear corner; allows PDU mounting

NEMA 12 Free Standing Enclosures are constructed to be compliant with 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 noncorrosive liquids

FEATURES

- 19" EIA 310-E Compliant Mounting
- 3/8" SQ. (M6) 45 RMU mounting rails with RMU labels
- Rails rated at 2000 lbs.
- Removable side panels
- Solid side panels and three AC unit panels available
 - Side Panel "A" will accept the following AC units: GL2500V, GL3500V, GL4500V, and GL6000V
 - Side Panel "B" will accept the following AC units: GL8000VHA, GL10000V, and GL12000V
 - Side Panel "C" will accept the following AC units: GL14000V, GL17000V, and GL20000V
- AC Side panels are configured with an internal baffle kit to direct hot/cold air
- Optional Fan Assemblies and exhaust filters
- Two vertical lacing bars (one in each rear corner)
- Heavy duty hinges and handles
- Cable access knockouts on bottom inside of enclosure



Show with optional accessories, drawings can be found on page 166

NEMA 12K ENCLOSURE N

84"H x 24"W x 42"D NEMA 12K ENCLOSURE

PART NO.	DESCRIPTION
GL840N12-2442-SS	84"H x 24"W x 42"D, NEMA 12K Enclosure with two solid side panels (no AC openings)
GL840N12-2442-SA	84"H x 24"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "A" (will accept the following AC units: GL2500V, GL3500V, GL4500V, and GL6000V)
GL840N12-2442-SB	84"H x 24"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "B" (will accept the following AC units: GL8000VHA, GL10000V, and GL12000V)
GL840N12-2442-SC	84"H x 24"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "C" (will accept the following AC units: GL14000VHA, GL17000VHA, and GL20000VHA)

84"H x 30"W x 42"D NEMA 12K ENCLOSURE

PART NO.	DESCRIPTION
GL840N12-3042-SS	84"H x 30"W x 42"D, NEMA 12K Enclosure with two solid side panels (no AC openings)
GL840N12-3042-SA	84"H x 30"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "A" (will accept the following AC units: GL2500V, GL3500V, GL4500V, and GL6000V)
GL840N12-3042-SB	84"H x 30"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "B" (will accept the following AC units: GL8000HVA, GL10000V, and GL12000V)
GL840N12-3042-SC	84"H x 30"W x 42"D, NEMA 12K Enclosure with one solid side panel and AC side panel "C" (will accept the following AC units: GL14000VHA, GL17000VHA, and GL20000VHA)

ACCESSORIES

PART NO.	DESCRIPTION
GL2500V*	Ice Qube AC Unit, 120V, 2500 BTU, 7.3 amps
GL3500V*	Ice Qube AC Unit, 120V, 3500 BTU, 8.2 amps
GL4500V*	Ice Qube AC Unit, 120V, 4500 BTU, 9.5 amps
GL6000V*	Ice Qube AC Unit, 120V, 6000 BTU, 10.9 amps
GL8000VHA*	Ice Qube AC Unit designed for high ambient applications, 120V, 8000 BTU, 14.7 amps
GL10000V*	Ice Qube AC Unit, 120V, 10,000 BTU, 15.1 amps
GL12000V*	Ice Qube AC Unit, 120V, 12,000 BTU, 19.6 amps
GL14000V*	Ice Qube AC Unit, 230V, 14,000 BTU, 15.0/16.5 amps
GL17000V*	Ice Qube AC Unit, 230V, 17,000 BTU, 15.5/17.1 amps
GL20000V*	Ice Qube AC Unit, 230V, 20,000 BTU, 18.2/20 amps
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

*Please see page 158 for warranty information.



NEMA 12K Wall Mount also available. Please see page 97 for details.

CL CO-LO ENCLOSURE



FEATURES:

- Secure vertical cable management raceways to each compartment
- Cable access provisions located on top and bottom of the enclosure
- Choose mesh or perimeter vented plexiglas front doors
- Choose mesh rear door or solid rear door with built in exhaust fans
- Locking swing handle standard on all compartments; add additional security to each compartment with optional combination locks and biometric handles

DIMENSIONS: 84"H x 28"W x (36", 42", or 48")D

RACK SPACES: 21 RMU per compartment

STOCK COLOR: Black

RAILS RATED AT: 1500 lbs.

SHIPPING WEIGHT AND PALLET SIZE

350 lbs./85"H x 32"W x 38"D, 400 lbs./85"H x 32"W x 45"D, 450 lbs./ 85"H x 32"W x 52"D

2 COMPARTMENT CO-LO ENCLOSURES

21 RMU per compartment; two individual raceways with dimensions: 44.38"H x 5.75"W x 2.75"D (both raceways)

PART NO.

DESCRIPTION

GL84CL2MM	84"H x 28"W x 36"D; mesh front and rear doors
GL8442CL2MM	84"H x 28"W x 42"D; mesh front and rear doors
GL8448CL2MM	84"H x 28"W x 48"D; mesh front and rear doors
GL84CL2PF	84"H x 28"W x 36"D; plexiglas front door and solid rear door with built in fans
GL8442CL2PF	84"H x 28"W x 42"D; plexiglas front door and solid rear door with built in fans
GL8448CL2PF	84"H x 28"W x 48"D; plexiglas front door and solid rear door with built in fans

ACCESSORIES

PART NO.

DESCRIPTION

7208-E	One Set of 4 Casters, 2 locking and 2 non-locking
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
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-ADHD	Stationary Shelf, front/rear mount adjustable, 17.5"W x 27.25"D, 150 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)
AK101	Seismic Anchor Kit (includes 4 torque controlled expansion anchors)
CH-02	Door Handle with three digit combination and key

**Please call for availability. Custom co-lo enclosures available;
Please call 1.866.TRY.GLCC for details**

CO-LO ENCLOSURE CL



FEATURES:

- Secure vertical cable management raceways to each compartment
- Cable access provisions located on top and bottom of the enclosure
- Choose mesh or perimeter vented plexiglas front doors
- Choose mesh rear door or solid rear door with built in exhaust fans
- Locking swing handle standard on all compartments; add additional security to each compartment with optional combination locks and biometric handles

DIMENSIONS: 84"H x 28"W x (36", 42", or 48")D

RACK SPACES: 14 RMU per compartment

STOCK COLOR: Black

RAILS RATED AT: 1500 lbs.

SHIPPING WEIGHT AND PALLET SIZE

350 lbs./85"H x 32"W x 38"D, 400 lbs./85"H x 32"W x 45"D, 450 lbs./ 85"H x 32"W x 52"D

3 COMPARTMENT CO-LO ENCLOSURES

14 RMU per compartment; two individual raceways with dimensions: 28.50"H x 5.75"W x 2.75"D (front raceway); 54.50"H x 5.75"W x 2.75"D (rear raceway)

PART NO.

DESCRIPTION

GL84CL3MM	84"H x 28"W x 36"D; mesh front and rear doors
GL8442CL3MM	84"H x 28"W x 42"D; mesh front and rear doors
GL8448CL3MM	84"H x 28"W x 48"D; mesh front and rear doors
GL84CL3PF	84"H x 28"W x 36"D; plexiglas front door and solid rear door with built in fans
GL8442CL3PF	84"H x 28"W x 42"D; plexiglas front door and solid rear door with built in fans
GL8448CL3PF	84"H x 28"W x 48"D; plexiglas front door and solid rear door with built in fans

ACCESSORIES

PART NO.

DESCRIPTION

7208-E	One Set of 4 Casters, 2 locking and 2 non-locking
7209-HD	One Set of 4 Adjustable Levelers (2.5"H)
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-ADHD	Stationary Shelf, front/rear mount adjustable, 17.5"W x 27.25"D, 150 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)
AK101	Seismic Anchor Kit (includes 4 torque controlled expansion anchors)
CH-02	Door Handle with three digit combination and key

**Please call for availability. Custom co-lo enclosures available;
Please call 1.866.TRY.GLCC for details**



streamline your setup!

Streamline your data center setup with configured enclosures from Great Lakes.

Choose a standard enclosure and we will install any Great Lakes purchased accessories—where specified by the customer—free of charge. Accessories which cannot be installed prior to shipping (e.g. overhead cable troughs or chimneys) will be packaged and placed inside the enclosure.

Please Note: side car assembly available upon request; will require special lead time.

THE ENCLOSURE ARRIVES SETUP AND READY TO GO!



WALL MOUNT

WM • WS • WD • 15WM • WE • N12 • WLP • WR • SR • SRD



GREAT LAKES' WALL MOUNT ENCLOSURES OFFER A SOLUTION SUITABLE FOR ANY APPLICATION

• **WM** wall mounts feature knockouts, fully adjustable rails, and accessory options; ideal for large wiring and network applications

• **WS & 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 and unique applications

W CHOOSING THE RIGHT WALL MOUNT



	WM Series	WS Series	WD Series	WE Series	NEMA 12K
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; wall mount configurations available with AC units
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" (GL2418WM: 15.5")	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-310E 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 3/8" sq. (M6); fully adjustable	2 pair of #12-24; fully adjustable
FRONT DOOR OPTION	Solid Steel, Plexiglas, or Mesh	Solid Steel, Plexiglas, or Mesh	Solid Steel, Plexiglas, or Mesh	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	Sealing gasket
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
COOLING	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional filtered fans or AC units
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	<ul style="list-style-type: none"> Center swing-out section provides front/rear access to cables Reversible cabinet for left or right hand swing Vented sides for airflow Weight tested to 1/2" of deflection 	<ul style="list-style-type: none"> Center swing-out section provides front/rear access to cables Solid and vented side panels available Weight tested to 1/2" of deflection 	<ul style="list-style-type: none"> Center swing-out section provides front/rear access to cables Vented sides for airflow Weight tested to 1/2" of deflection 	<ul style="list-style-type: none"> Lift-off, lockable front panel 	<ul style="list-style-type: none"> Front door and rear section lock independently Fan cover plates can be removed to add fans/filters* <p><small>*N12A wall mounts that accept AC units do not feature removable cover plates; fans cannot be used in conjunction with AC units</small></p>

CHOOSING THE RIGHT WALL MOUNT W

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	WLP Series	WR Series	15WM Series	SR Series	SRD Series
WHY IT'S GREAT	A low profile wall mount to mount patch panels and other 19 or 23" equipment when space is limited; two sets of mounting profile lances give the WLP tremendous flexibility	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.
HEIGHT	24, 36, 48"	4, 7.5"	15"	24, 36, 48"	24", 36", 48"
WIDTH	27"	19.75"	22.25"	20.75"	20.75"
OVERALL DEPTH	10"	21.63"	17.66"	18"	24"
USABLE DEPTH	Varies	21"	17"	16"	22"
RMU	Max. of 10 RMU along brackets	2, 4	7	12, 19, 26	12, 19, 16
WT. CAP.	250, 300, 350	50, 75 lbs.	100 lbs.	50 lbs.	100 lbs.
EIA-310E COMPLIANT MOUNTING RAILS	2 Sets of #12-24 brackets	One pair of #12-24	One pair of #10-32	One pair of #12-24, tapped front and rear	One pair of #10-32
FRONT DOOR OPTION	Perforated Steel Door	N/A	Solid Steel or Plexiglas	N/A	N/A
HINGES	Standard hinges	N/A	Standard hinges	Hinge Pins	N/A
CABLE MANAGEMENT	1, 2, 3, and 4" conduit knockouts on top; multiple knockouts on bottom and sides; slots along sides to accept multiple cable mngt. accessories	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	Provisions for cable cinch straps
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	Accepts up to 3, single fan assemblies	N/A	Optional single fan assembly	N/A	N/A
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	<ul style="list-style-type: none"> • Mounting pattern for 19 or 23" • Tilt-out and fixed brackets are standard; additional brackets can be added for more RMU • Brackets can be vertically adjusted to accept a variety of equipment depths • Optional cable rings and fiber spools 	<ul style="list-style-type: none"> • Bolt on cover panel for easy access to equipment • Wall mount holes for horizontal or vertical mounting • Side ventilation provides airflow 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Easy assembly 	<ul style="list-style-type: none"> • Easy assembly

W WM SERIES



Shown with optional accessories

FEATURES

- 19" EIA 310-E 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; includes rack mtg. hardware
- Solid Steel, Plexiglas, or Mesh 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 sides for airflow
- Weight tested to 1/2" of deflection

WM SERIES

PART NO.	DESCRIPTION
GL2418WM	24"H x 21.25"W x 18"D, Usable depth 15.5", Maximum rail spacing 11.06", 12 RMU, Plexiglas door Weight capacity 150 lbs.*, Shipping wt. 85 lbs.
GL2418WMS	Same as GL2418WM except solid door
GL2418WMM	Same as GL2418WM except mesh 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
GL24WMM	Same as GL24WM except mesh 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
GL36WMM	Same as GL36WM except mesh 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
GL48WMM	Same as GL48WM except mesh door

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES (ADDITIONAL ACCESSORIES ON PAGE 100)

PART NO.	DESCRIPTION
WMPK	Wall Mount Pole Kit for mounting WM to indoor poles
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
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-E 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; includes rack mtg. hardware
- Solid Steel, Plexiglas, or Mesh 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 side panels available
- Weight tested to ½" of deflection

WS SERIES

PART NO.

GL24WS-SS

DESCRIPTION

24"H x 24"W x 24"D, 11 RMU, Weight capacity 250 lbs.*, Solid Front Door & Solid Sides, Shipping wt. 125 lbs.

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

GL24WS-MS

Same as GL24WS-SS except with Mesh Front & Solid Sides

GL24WS-MV

Same as GL24WS-SS except with Mesh Front & Vented Sides

GL36WS-SS

36"H x 24"W x 24"D, 18 RMU, Weight capacity 300 lbs*., Solid Front Door & Solid Sides, Shipping wt. 150 lbs.

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

GL36WS-MS

Same as GL36WS-SS except with Mesh Front & Solid Sides

GL36WS-MV

Same as GL36WS-SS except with Mesh Front & Vented Sides

GL48WS-SS

48"H x 24"W x 24"D, 25 RMU, Weight capacity 350 lbs.*, Solid Front Door & Solid Sides, Shipping wt. 200 lbs.

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

GL48WS-MS

Same as GL48WS-SS except with Mesh Front & Solid Sides

GL48WS-MV

Same as GL48WS-SS except with Mesh Front & Vented Sides

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES (ADDITIONAL ACCESSORIES ON PAGE 100)

PART NO.

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

7217WS

Fan Assembly with Fan Guards and two 75 CFM fans

FFK1

Four Fan Filters

7208WS

One Set of 5 Casters, 2 locking and 3 non-locking

W WD SERIES



FEATURES

- 19" EIA 310-E Compliant
- 2 pair of #12-24 rails, fully adjustable; includes rack mtg. hardware
- The WD provides additional depth for larger pieces of equipment
- Solid Steel, Plexiglas, or Mesh 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
GL24WDM	Same as GL24WD except mesh 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
GL36WDM	Same as GL36WD except mesh 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
GL48WDM	Same as GL48WD except mesh door

*All maximum weight capacities determined at minimal deflection.

ACCESSORIES (ADDITIONAL ACCESSORIES ON PAGE 100)

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)
HDW-102-50	Package of 50 Pan Head Phillips #10-32 x 1/2" screws
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

15WM SERIES W



Shown with optional accessories

FEATURES

- 19" EIA 310-E Compliant
- Ideal size for areas where space is limited (e.g. classrooms and convenience stores)
- One pair of #10-32 rails; includes rack mtg. hardware
- 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 SERIES

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)
7217-04	Fan Kit (includes single 75 CFM fan with fan guards and power cord)





FEATURES

- Includes one pair of #12-24 stagger brackets (WLPSB) and one pair of #12-24 tilt-out brackets (WLPTOB); includes rack mtg. hardware; additional bracket sets can be added
- 2 sets of mounting profile lances along the back panel to allow for 19 or 23" mounting; stagger and tilt-out brackets can be vertically adjusted to accept a variety of equipment depths
- 1, 2, 3, and 4" nominal concentric conduit knockouts on top of WLP
- 1 and 2" conduit knockouts on bottom of WLP
- 1" conduit knockouts on each side of WLP
- Cable management lances along both sides of WLP to accept optional accessories (cable rings and fiber spools)
- Reversible front door
- Optional fan and filter assembly; accepts up to three, single fan assemblies

WLP SERIES

PART NO.

GL24WLP

DESCRIPTION

24"H x 27"W x 10"D, Weight capacity 105 lbs., Shipping wt. 45 lbs.

GL36WLP

36"H x 27"W x 10"D, Weight capacity 105 lbs., Shipping wt. 68 lbs.

GL48WLP

48"H x 27"W x 10"D, Weight capacity 150 lbs., Shipping wt. 81 lbs.

ACCESSORIES

PART NO.

WLPSB

DESCRIPTION

Stagger Bracket Set, (top of bracket, 2 RMU; bottom of bracket, 4 RMU) for installation along mounting profile lances

WLPTOB

Tilt-out Bracket Set, 4 RMU, for installation along mounting profile lances

WLPHMB

Hook Mounted Bracket Set, 1 RMU, for installation along mounting profile lances

WLPCR

Cable Management Ring Kit, includes 6 rings; for installation along mounting profile or cable management lances

WLPLHFB

Hook-mounted Fiber Box Assembly for left hand use; for installation along mounting profile or cable management lances

WLPRHFB

Hook-mounted Fiber Box Assembly for right hand use; for installation along mounting profile or cable management lances

CM-06

Cinch Strap with buckle and grommet, 6"L, black

7217-04

Single fan assembly, 75 CFM





Shown with optional accessories

FEATURES

- 19" EIA 310-E Compliant
- Side mounting reduces the open space required to mount equipment; mounting across 3 studs provides extra stability
- 2 pair of 3/8" sq. (M6) rails, fully adjustable; includes rack mtg. hardware
- 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, Weight Capacity 350 lbs., Mesh side doors and solid front panel; Shipping wt.100 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
7217WS	Fan Assembly with fan guards and two 75 CFM fans



Shown with optional accessories

FEATURES

- 19" EIA 310-E Compliant
- Ideal for switches and sound equipment when space is limited
- #12-24 mounting holes and three position adjustable rails; includes rack mtg. hardware
- 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", 2 RMU, Weight Capacity 50 lbs., Shipping wt. 17 lbs.
WR4	7.5"H x 19.75"W x 21.63"D, Usable space 21", 4 RMU, Weight Capacity 75 lbs., Shipping wt. 20 lbs.

W NEMA 12K



NEMA 12K Wall Mount Enclosures have been independently tested and certified to meet the National Electrical Manufacturers Association's Type 12 standard. NEMA 12K 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-E Compliant
- 2 pair of #12-24 rails, fully adjustable; includes rack mtg. hardware
- Reversible mounting (N12A wall mounts are not reversible)
- Keyed locks with dust covers
- Front and rear sections lock independently
- 2" conduit knock-outs on back panel
- Removable cover plates for fan assembly kit (N12A wall mounts do not feature removable cover plates; fans cannot be used in conjunction with AC units)
- 14 gauge main body and rear section

NEMA 12K WALL MOUNT

PART NO.	DESCRIPTION
GL240N12	24"H x 24"W x 24"D, Usable depth 22", Maximum rail spacing 16", 12 RMU, Weight Capacity 150 lbs., Shipping wt. 105 lbs.; can accept one FFKN12-A4
GL240N12A	Same as GL240N12 except able to accept GL1000MMR or GL1300MMR AC Unit
GL360N12	36"H x 24"W x 24"D, Usable depth 22", Maximum rail spacing 16", 19 RMU, Weight Capacity 250 lbs., Shipping wt. 140 lbs.; can accept two FFKN12-A4
GL360N12A	Same as GL360N12 except able to accept GL1000MMR or GL1300MMR AC Unit
GL480N12	48"H x 24"W x 24"D, Usable depth 22", Maximum rail spacing 16", 26 RMU, Weight Capacity 300 lbs., Shipping wt. 175 lbs.; can accept three FFKN12-A4
GL480N12A	Same as GL480N12 except able to accept GL2200MMR AC Unit

ACCESSORIES

PART NO.	DESCRIPTION
GL1000MMR	1000 BTU AC Unit, 120V/60Hz, 3.1 amps; for use with GL240N12A and GL360N12A
GL1300MMR	1300 BTU AC Unit, 120V/60Hz, 3.1 amps; for use with GL240N12A and GL360N12A
GL2200MMR	2200 BTU AC Unit, 120V/60Hz, 3.1 amps; for use with GL480N12A
FFKN12-A4	Fan Assembly (includes filter) and exhaust filter, 38 CFM, 115V
FILTER-10	Package of five replacement filters for FFKN12-A4
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
WMPK	Wall Mount Pole Kit for mounting NEMA 12 to indoor poles



FEATURES

- 19" EIA 310-E Compliant
- #10-32 mounting holes; includes rack mtg. hardware
- 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, Weight Capacity 100 lbs., Shipping wt. 34 lbs.
GL36SRD	36.25"H x 20.75"W x 24"D, Usable depth 22", 19 RMU, Weight Capacity 100 lbs., Shipping wt. 44 lbs.
GL48SRD	48.5"H x 20.75"W x 24"D, Usable depth 22", 26 RMU, Weight Capacity 100 lbs., Shipping wt. 54 lbs.



FEATURES

- 19" EIA 310-E Compliant
- #12-24 mounting holes on front and rear of swing frame
- Includes rack mtg. hardware
- 180° positive stop with stay open hinge pins
- Easy to assemble, install and mount

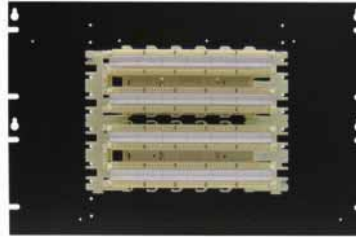
SR SERIES SWING RACK

PART NO.	DESCRIPTION
GL24SR	23.75"H x 20.75"W x 18"D, Usable depth 16", 12 RMU, Weight Capacity 50 lbs., Shipping wt. 30 lbs.
GL36SR	36"H x 20.75"W x 18"D, Usable depth 16", 19 RMU, Weight Capacity 50 lbs., Shipping wt. 36 lbs.
GL48SR	48.75"H x 20.75"W x 18"D, Usable depth 16", 26 RMU, Weight Capacity 50 lbs., Shipping wt. 48 lbs.

W WALL MOUNT ACCESSORIES



- | 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 and DVR Lock Box |



- | 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 |



- | PART NO. | DESCRIPTION |
|----------|--|
| CBB-19 | Copper Bus Bar for 19" mounting |
| GR102 | Grounding Kit for use with WM, WS, WD and WE wall mounts |

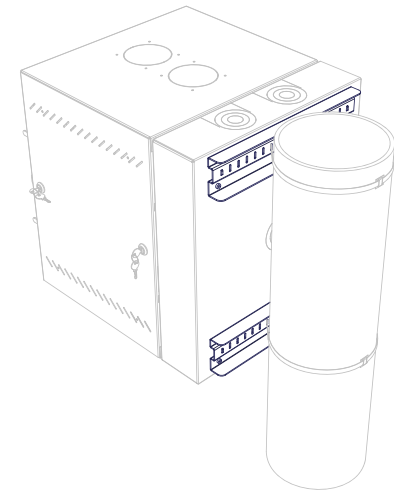
All Bus Bars are isolated.



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



- | PART NO. | DESCRIPTION |
|------------|--|
| BS2-CPUBKT | Weight Capacity 100 lbs., Shipping wt. 18 lbs. |



- | PART NO. | DESCRIPTION |
|----------|---|
| WMPK | Wall Mount Pole Kit to mount WM, N12K, SR and SRD wall mount products to indoor poles |

OPEN FRAME RACKS

2 POST • 4 POST • HEAVY DUTY • CABLE MANAGEMENT • ENHANCED



Constructed and built to be more durable than other industry racks, Great Lakes' racks are compatible with a number of vertical cable managers and accessories to support 19 and 23" EIA equipment

- **2 POST RACKS**
feature double sided aluminum and 1/2" assembly bolts that easily hold 1500 lbs.

- **4 POST RACKS**
are available in multiple heights and depths; choose from two types of mounting

- **HEAVY DUTY 4 POST RACKS**
can hold a "ton" of equipment, or can accept casters for easy movement

- **CABLE MANAGEMENT RACKS**
are designed for quick and easy maintenance of cable applications

- **ENHANCED RACKS**
feature variable depth racks from 24-36"; can be combined with full height baffles to create proper airflow for side-to-side airflow equipment








R CHOOSING THE RIGHT RACK

We Rack
your
World!



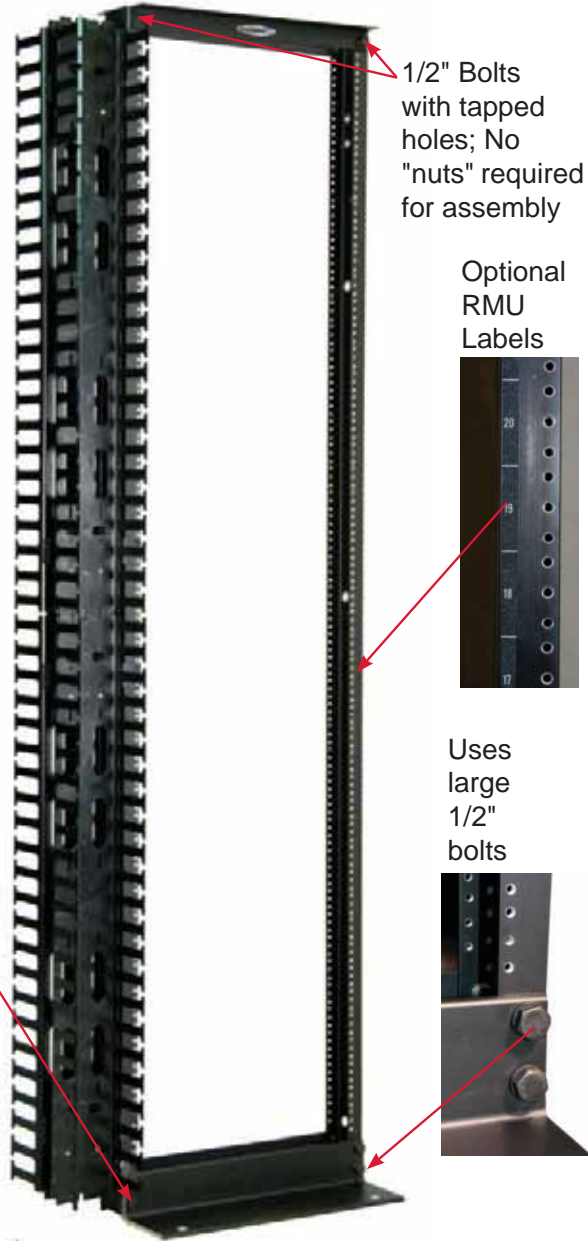
	2 Post Racks	4 Post Racks	Heavy Duty 4 Post Rack	Variable Depth Heavy Duty 4 Post Rack	Variable Depth 4 Post Rack	Cable Management Rack, CMR-45U16	Cable Management Rack, CMR-45U
WHY IT'S GREAT!	An anodized finish is applied to racks prior to the mounting profile being drilled. Many competitors racks receive a powder coat finish which can clog the mounting profile, making it difficult to install equipment. A clean mounting profile makes installation quick, and because there is no powder coat, grounding equipment is made easy with bus bars	Choose M6 mounting when installing servers or #12-24 when installing patch panels; the appropriate mounting profile for specific applications makes installation quick and easy	2000 lb. weight capacity allows heavier equipment and additional accessories to safely be mounted	The rack features a variable depth of 24-36" while still maintaining a 2000 lb. weight capacity	As part of the ER series, racks can be combined with full height baffles to create proper airflow for side-to-side airflow equipment; vertical cable managers and ladder rack brackets can be added to facilitate cabling needs	Designed for heavy switch equipment (such as Cisco) with 16.25" brackets; a 2000 lb. capacity is easily able to support switches while standard cable "fingers" provide a quick cable solution	Rotating cable rings and slots for cinch straps are ideal for supporting patch panels and organizing cables
HEIGHT / RMU	36"/ 18, 48"/ 24, 60"/ 31, 66"/ 35, 72"/ 38, 84"/ 45, 96"/ 52, 108"/ 59	36"/ 18*, 48"/ 24*, 60"/ 31*, 66"/ 35*, 72"/ 38*, 84"/ 45, 96"/ 52*, 108"/ 59* <small>*Only available with #12-24 mounting</small>	80.5" / 42	84" / 45	84" / 45	84" / 45	84" / 45
WIDTH	20.31"	20.6"	20.5"	20.5"	20.5"	24"	24"
DEPTH	3" channels; 14" footprint	24", 29", 32", 36"	29"	24-36", variable in 1" increments	24-36", variable in 1" increments	16.25" channels; 16.25" footprint	10" channels; 21" footprint
WEIGHT CAP.	1500 lbs.	1500 lbs.	2000 lbs.	2000 lbs.	1500 lbs.	1500 lbs.	1500 lbs.

CHOOSING THE RIGHT RACK R

	2 Post Racks	4 Post Racks	Heavy Duty 4 Post Rack	Variable Depth Heavy Duty 4 Post Rack	Variable Depth 4 Post Rack	Cable Management Rack, CMR-45U16	Cable Management Rack, CMR-45U
EIA-310E MOUNTING RAILS	Tapped front and rear, #12-24	3/8" sq. (M6) of #12-24	3/8" sq. (M6)	3/8" sq. (M6) or #12-24	3/8" sq. (M6) or #12-24	#12-24, tapped front and rear	#12-24, tapped front and rear
RACK HARDWARE	Included	Included	Included	Included	Included	Included	Included
RMU LABELS	Optional	Optional	Optional	Included	Included	Included	Included
STOCK COLOR	Black anodized or Silver mill finish	Black	Black	Black	Black	Black	Black
AVAILABILITY	84"H rack, ships within 24-48 hrs.; please call for other sizes	84"H rack, ships within 24-48 hrs.; please call for other sizes	Ships within 24-48 hrs.	Ships within 24-48 hrs.	Ships within 24-48 hrs.	Ships within 24-48 hrs.	Ships within 24-48 hrs.
CABLE MANAGEMENT OPTIONS	<ul style="list-style-type: none"> 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 7 RMU sections of "Fingers"; 12 sections included Top front and rear waterfall brackets with a 3" bend radius for CAT6 cable included 5" VCM 8" VCM 12" VCM 19" cable organizers 	<ul style="list-style-type: none"> 8 rotating cable rings on front and rear rails included 5" VCM 8" VCM 12" VCM
OTHER FEATURES	<ul style="list-style-type: none"> Anodized finish allows for easy grounding 	<ul style="list-style-type: none"> Assembled with toe-in or toe-out footprint 	<ul style="list-style-type: none"> Assembled with toe-in or toe-out footprint Optional caster mounting 	<ul style="list-style-type: none"> Includes Flexible Mounting Profile (FMP) Assembled with toe-in or toe-out footprint 	<ul style="list-style-type: none"> Includes Flexible Mounting Profile (FMP) Assembled with toe-in or toe-out footprint 	<ul style="list-style-type: none"> Includes Flexible Mounting Profile (FMP) Adjustable to 23" mounting 	Adjustable to 23" mounting
							

we Rack your World!™

R 2 POST RACKS



1/2" Bolts with tapped holes; No "nuts" required for assembly

Optional RMU Labels



Uses large 1/2" bolts



Tapped holes No "nuts" required for assembly

DIMENSIONS: 84"H x 20.31"W x 3" channels (14"D footprint)

RACK SPACES: 45 RMU • 19" EIA 310-E Compliant; includes rack mounting hardware

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

19" MOUNTING

PART NO.

DESCRIPTION

GLRR-1984BA-8FR	Includes 8" Vertical Front and Rear Cable Manager with 4 spools, 12 wire retainers and hinge cover; black anodized finish
GLRR-1984BA-2-8FR	Same as GLRR-1984BA-8FR except with 2 cable managers
GLRR-1984BA-8FO	Includes 8" Vertical Front Only Cable Manager with 2 spools, 6 wire retainers and hinge cover; black anodized finish
GLRR-1984BA-2-8FO	Same as GLRR-1984BA-8FO except with 2 cable managers
GLRR-1984BA-5FR	Includes 5" Vertical Front and Rear Cable Manager with snap-on cover; black anodized finish
GLRR-1984BA-2-5FR	Same as GLRR-1984BA-5FR except with 2 cable managers
GLRR-1984BA-5FO	Includes 5" Vertical Front Only Cable Manager with snap-on cover; black anodized finish
GLRR-1984BA-2-5FO	Same as GLRR-1984BA-5FO except with 2 cable managers

GLRR-1984	2 Post Rack with mounting hardware; mill finish
GLRR-1984BA	2 Post Rack with mounting hardware; black anodized finish

23" MOUNTING

PART NO.

DESCRIPTION

GLRR-2384	2 Post Rack with mounting hardware; mill finish
GLRR-2384BA	2 Post Rack with mounting hardware; black anodized finish

NOTE: 2 post racks with 23" mounting are not stocked product. Please call 1.866.TRY.GLCC for details and our best lead time.



Shown with optional accessories

2 POST RACKS R



In addition to standard, 84"H 2 post racks, Great Lakes also offers racks 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.

19" MOUNTING PART NO.

PART NO.	DESCRIPTION
GLRR-1936	36"H x 20.31"W x 14"D, 17 RMU, mill finish
GLRR-1936BA	36"H x 20.31"W x 14"D, 17 RMU, black anodized finish
GLRR-1948	48"H x 20.31"W x 14"D, 24 RMU, mill finish
GLRR-1948BA	48"H x 20.31"W x 14"D, 24 RMU, black anodized finish
GLRR-1960	60"H x 20.31"W x 14"D, 31 RMU, mill finish
GLRR-1960BA	60"H x 20.31"W x 14"D, 31 RMU, black anodized finish
GLRR-1966	66"H x 20.31"W x 14"D, 35 RMU, mill finish
GLRR-1966BA	66"H x 20.31"W x 14"D, 35 RMU, black anodized finish
GLRR-1972	72"H x 20.31"W x 14"D, 38 RMU, mill finish
GLRR-1972BA	72"H x 20.31"W x 14"D, 38 RMU, black anodized finish
GLRR-1984	84"H x 20.31"W x 14"D, 45 RMU, mill finish (in-stock)
GLRR-1984BA	84"H x 20.31"W x 14"D, 45 RMU, black anodized finish (in-stock)
GLRR-1996	96"H x 20.31"W x 14"D, 52 RMU, mill finish
GLRR-1996BA	96"H x 20.31"W x 14"D, 52 RMU, black anodized finish
GLRR-19108	108"H x 20.31"W x 14"D, 59 RMU, mill finish
GLRR-19108BA	108"H x 20.31"W x 14"D, 59 RMU, black anodized finish

NOTE: The above 2 post racks (except 84"H) are not stocked product. Please call 1.866.TRY.GLCC for details and our best lead time.

ACCESSORIES PART NO.

PART NO.	DESCRIPTION
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug; requires PSBGLRR
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
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)



Shown with optional accessories

R 4 POST RACKS



DIMENSIONS: 84"H x 20.6"W x (24, 29, 32 or 36)"D

RACK SPACES: 45 RMU • 19" EIA 310-E Compliant; includes rack mounting hardware

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

4 POST RACKS WITH 3/8" SQ. (M6) MOUNTING

PART NO.	DESCRIPTION
4PM6-29-8FR	29"D Rack; Includes 8" Vertical Front and Rear Cable Manager with 4 spools, 12 wire retainers and hinge cover
4PM6-29-5FR	29"D Rack; Includes 5" Vertical Front and Rear Cable Manager with snap-on cover
4PM6-24	24"D Rack; cold rolled steel construction; 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.

4 POST RACKS WITH #12-24 MOUNTING

PART NO.	DESCRIPTION
4P1224-24	24"D Rack with #12-24 Mounting; aluminum upright construction and steel bracket set; 3 cartons totalling 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.

Shown with optional accessories

4 POST RACKS R

In addition to standard, 84" high 4 post racks, Great Lakes also offers racks 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.



4 POST RACKS WITH #12-24 MOUNTING

PART NO.	DESCRIPTION
4P36-1224-29	36"H x 20.6"W x 29"D, 18 RMU
4P48-1224-29	48"H x 20.6"W x 29"D, 24 RMU
4P60-1224-29	60"H x 20.6"W x 29"D, 31 RMU
4P66-1224-29	66"H x 20.6"W x 29"D, 35 RMU
4P72-1224-29	72"H x 20.6"W x 29"D, 38 RMU
4P1224-29	84"H x 20.6"W x 29"D, 45 RMU (in-stock)
4P96-1224-29	96"H x 20.6"W x 29"D, 52 RMU
4P108-1224-29	108"H x 20.6"W x 29"D, 59 RMU

NOTE: The above 4 post racks (except 84"H) are not stocked product. Please call 1.866.TRY.GLCC for details and our best lead time.

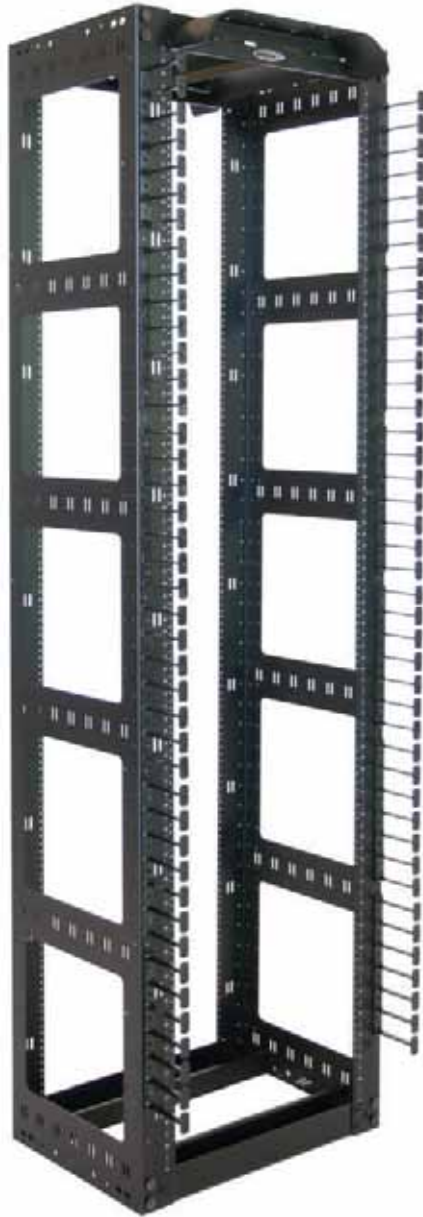
ACCESSORIES

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)
GL-RMUTD	Package of 4 RMU Labels in decending order (45 on the bottom, 1 on the top)

Shown with optional accessories



R CABLE MANAGEMENT RACKS



FEATURES

- Designed for 16.25" mounting brackets (as provided by switch manufacturers such as Cisco)
- 84"H, 45 RMU
- #12-24 mounting rails with RMU labels
- 19" mounting, adjustable to 23"
- 2000 lb. weight capacity
- Includes 12 sections of "fingers" for installation on any 2 rails
- Top front and rear waterfall brackets with a 3" bend radius for CAT6 cable

PART NO.
CMR-45U16

DESCRIPTION

Cable Management Rack, 84"H x 24"W x 16.25"D channels (16.25" footprint), #12-24 mounting; 45 RMU; 2000 lb. weight capacity; constructed of 12 gauge cold rolled steel; features cable management "fingers" on front rails; includes rack mtg. hardware; adjustable to 23" mtg.

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-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-FR-AHD

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

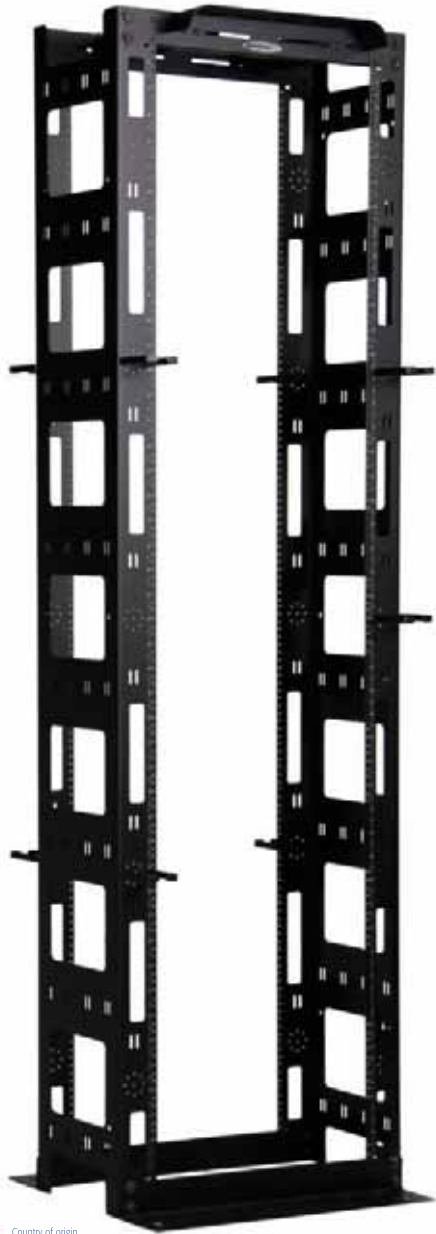
7206-SL

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

AK101

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

CABLE MANAGEMENT RACKS R



FEATURES

- 84"H, 45 RMU
- #12-24 mounting rails with RMU labels
- 19" mounting, adjustable to 23"
- 1500 lb. weight capacity
- Rotating Cable Rings on front and rear rails
- Top front and rear waterfall brackets with a 3" bend radius for CAT6 cable

PART NO. CMR-45U

DESCRIPTION

Cable Management Rack, 84"H x 24"W x 12"D channels (21"D footprint), #12-24 mounting; 45 RMU; 1000 lb. weight capacity; constructed of 12 gauge cold rolled steel; includes rack mtg. hardware; adjustable to 23" mtg.

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

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-FR-AHD

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

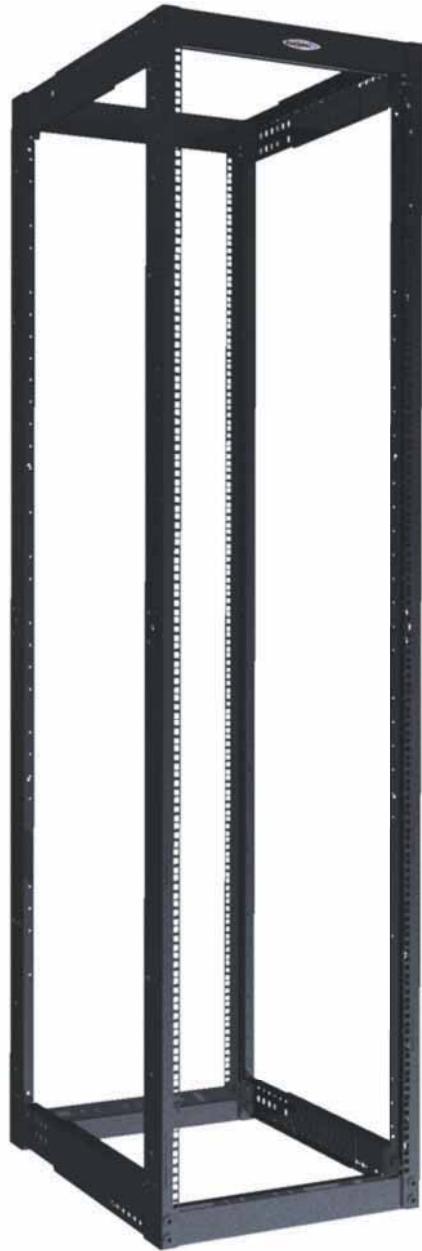
7206-SL

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

AK101

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

R VARIABLE DEPTH HD 4 POST RACK



FEATURES

- Variable depth from 24-36", in one inch increments
- 84"H, 45 RMU
- 3/8" sq. (M6) mounting
- RMU labels included
- 2000 lb. weight capacity

PART NO.
VD4PHD-2436

DESCRIPTION

84"H x 20.5"W, Variable Depth Heavy Duty 4 Post Rack, side rail offers variable depth of 24-36" (in 1" increments); 3/8" sq. (M6) mounting 45 RMU; 2000 lb. weight capacity; constructed of 12 gauge cold rolled steel; includes rack mtg. hardware

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-01

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

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)

HD 4 POST RACK R



FEATURES

- 84"H, 45 RMU
- 3/8" sq. (M6) mounting
- 2000 lb. weight capacity
- Optional caster mounting

PART NO. 4PHD29

DESCRIPTION

Heavy Duty 4 Post Rack, 80.5"H x 20.5"W x 29"D; 3/8" sq. (M6) mounting; 42 RMU; 2000 lb. weight capacity when bolted to floor; constructed of 12 gauge cold rolled steel; includes rack mtg. hardware; designed for optional 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

CM-01

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

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.); for use with 4PHD29 only

Shown with optional accessories

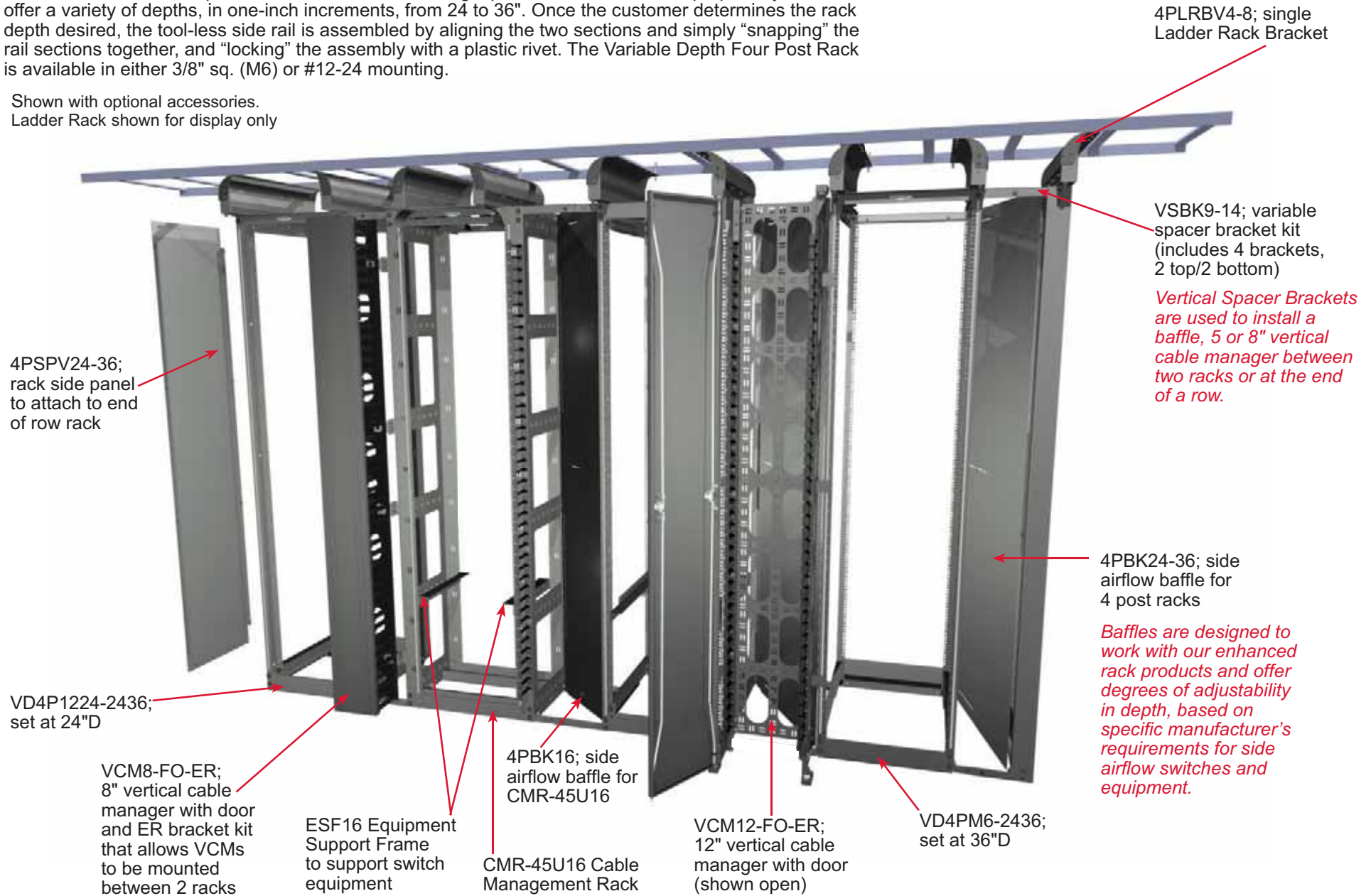


R ENHANCED RACKS

ENHANCED RACK (VARIABLE DEPTH)

Great Lakes Variable Depth Four Post Rack offers a single platform which utilizes a proprietary side rail to offer a variety of depths, in one-inch increments, from 24 to 36". Once the customer determines the rack depth desired, the tool-less side rail is assembled by aligning the two sections and simply "snapping" the rail sections together, and "locking" the assembly with a plastic rivet. The Variable Depth Four Post Rack is available in either 3/8" sq. (M6) or #12-24 mounting.

Shown with optional accessories.
Ladder Rack shown for display only



4PLRBV4-8; single Ladder Rack Bracket

VSBK9-14; variable spacer bracket kit (includes 4 brackets, 2 top/2 bottom)

Vertical Spacer Brackets are used to install a baffle, 5 or 8" vertical cable manager between two racks or at the end of a row.

4PSPV24-36; rack side panel to attach to end of row rack

4PBK24-36; side airflow baffle for 4 post racks

Baffles are designed to work with our enhanced rack products and offer degrees of adjustability in depth, based on specific manufacturer's requirements for side airflow switches and equipment.

VD4P1224-2436; set at 24"D

VCM8-FO-ER; 8" vertical cable manager with door and ER bracket kit that allows VCMs to be mounted between 2 racks

ESF16 Equipment Support Frame to support switch equipment

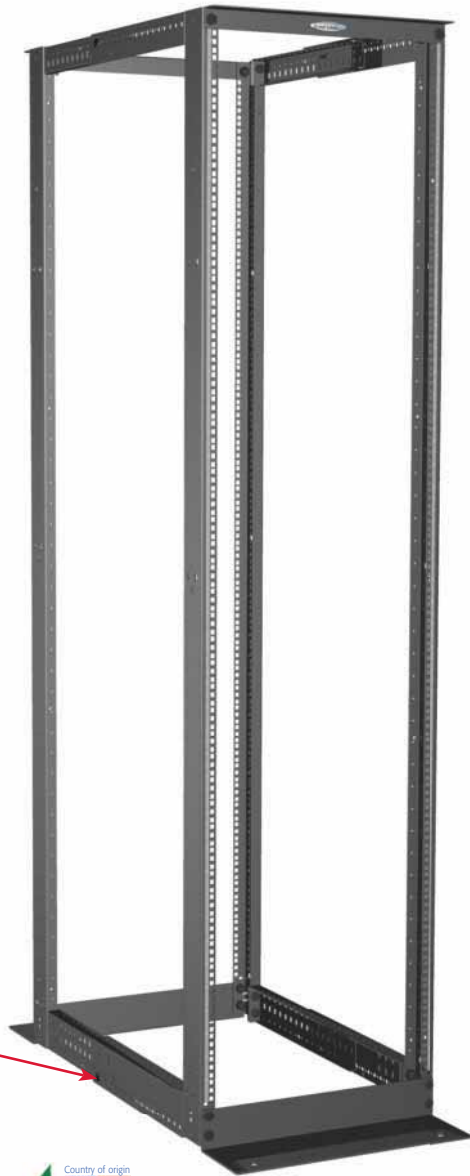
4PBK16; side airflow baffle for CMR-45U16

CMR-45U16 Cable Management Rack

VCM12-FO-ER; 12" vertical cable manager with door (shown open)

VD4PM6-2436; set at 36"D

ENHANCED RACKS R



Tool-less side rail snaps into place and is "locked" with a plastic rivet

VARIABLE DEPTH 4 POST RACKS

PART NO.	DESCRIPTION
VD4PM6-2436	84"H, Variable Depth 4 Post Rack, side rail offers variable depth from 24-36" (in 1" increments); 3/8" sq. (M6) mounting; 45 RMU; *
VD4P1224-2436	84"H, Variable Depth 4 Post Rack, side rail offers variable depth from 24-36" (in 1" increments); #12-24 mounting; 45 RMU; *

*1500 lb. weight capacity when networked; 1000 lbs. free standing

4PSPV24-36	Rack Side Panel for 4 Post Rack, variable depth of 24-36"; helps eliminate end-of-row hot/cold air recirculation and creates a "clean" look
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SPACER BRACKETS

PART NO.	DESCRIPTION
VSBK6-8	Variable Spacer Bracket Kit, includes 4 brackets adjustable from 6-8" (in 1" increments); brackets are for use when installing a baffle and/or any 5 or 8" vertical cable manager between 2 racks
VSBK9-14	Variable Spacer Bracket Kit, includes 4 brackets adjustable from 9-14" (in 1" increments); brackets are for use when installing a baffle and/or any 5 or 8" vertical cable manager between 2 racks

SIDE AIRFLOW BAFFLES AND SUPPORT FRAMES

PART NO.	DESCRIPTION
4PBK24-36	84"H baffle kit for 4 Post Racks, variable depth of 24-36"; for use when racks are set from 24-36"; must be used with variable spacer bracket kit
4PBK12	84"H baffle kit for CMR-45U, set at 12" deep; must be used with variable spacer bracket kit
4PBK16	84"H baffle kit for CMR-45U16, set at 16.25" deep; must be used with variable spacer bracket kit
4PBSF24-36	Baffle Support Frame for 4 Post Racks, variable depth of 24-36"; must be used when a baffle is needed at the end of a row

LADDER RACK BRACKETS

PART NO.	DESCRIPTION
4PLRBV4-8	Single Ladder Rack Bracket, variable height from 4-8" (in 1" increments); supports 12-24" ladder rack

VERTICAL CABLE MANAGERS

PART NO.	DESCRIPTION
VCM5-FO	Vertical 5" Front Only Cable Manager; includes Enhanced Rack (ER) bracket kit
VCM8-FO	Vertical 8" Front Only Cable Manager; includes ER bracket kit
VCM12-FO	Vertical 12" Front Only Cable Manager

EQUIPMENT SUPPORT FRAME

PART NO.	DESCRIPTION
ESF24-29	Equipment Support Frame to support switches installed in any 4 Post Rack; variable depth of 24-29"
ESF16	Equipment Support Frame to support switches installed in CMR-45U16



R CABLE MANAGEMENT FOR RACKS



PART NO.
VCM5-FR

DESCRIPTION
Vertical Front & Rear Cable Management, 5" Channel x 80"L; includes black snap-on covers

VCM5-FO

Vertical Front Cable Management, 5" Channel x 80"L; includes black snap-on covers; not compatible with 4PHD-2436 and 4PM6 racks



PART NO.
VCM8-FR

DESCRIPTION
Vertical Front & Rear Cable Management, 8" Channel and 80"L; includes 4 cable spools, 12 wire retainers, and black hinge covers

VCM8-FO

Vertical Front Cable Management, 8" Channel and 80"L; includes 2 cable spools, 6 wire retainers, and black hinge covers; not compatible with 4PHD-2436 and 4PM6 racks



PART NO.
VCM12-FO

Vertical Front Cable Management, 12" Channel x 80"L; includes black hinge cover

INDUSTRIAL

1 • 2 • 3 • 3R • 3S • 4 • 4X • 5 • 12 • 13



For more than 30 years, Great Lakes has manufactured a variety of industrial enclosures, from the UL® Type 12 wall mount and free standing enclosures offered in our catalog, to customized products specifically designed for a number of OEM customers. We have created a full-scale, on-site lab where our enclosures are tested for compliance with the UL508A standard and we have significantly expanded our capabilities for the production of industrial enclosures to meet growing customer demands.

I INDUSTRIAL



AN MTO BUSINESS UNIT

Great Lakes Industrial Enclosures is now a made-to-order" business unit based on our core competencies and designed to support all Great Lakes customers who may have:

- Requirements for an industrial enclosure to support recurring business.
- Unique configuration or custom requirements which are not met by off-the-shelf products.
- Specific custom industrial enclosure other manufacturers will not make.

SOLVING A REAL-WORLD NEED

Customers often purchase standard industrial enclosures which are not exactly what they would like. They must then spend hours modifying those enclosures to meet their specific needs. For a large scale project, that can be expensive and time consuming.

Great Lakes can design and manufacture a product which meets the customer's exact requirements in a highly competitive and cost-effective manner.

Each enclosure is subjected to a comprehensive engineering review. Throughout the design and manufacturing process, each product is evaluated

for compliance with the specific UL508A standard and a NEMA rating category. Engineering drawings are created with all specific design requirements. The product is then engineered, manufactured and tested for shipment within eight weeks of signatory approval* of those drawings.

*(*That lead time may increase if there is a need for highly specific accessories which must also be designed or in the case of a complex design requiring unique materials, coatings or finishes.)*



AN “UMBRELLA” PRODUCT STRATEGY

Great Lakes has created an “umbrella” product management strategy, developing several families of products manufactured and independently tested to be NEMA rated and properly listed within our UL files.

We currently offer a variety of designs and NEMA ratings (from 1 and 12 to 3, 3R, 4, and 4X, for interior, exterior and corrosive environments:

- Designs range from standard wall mounts and double door enclosures (with or without center mullion) to pagoda styles, vented top and bottom, (with or without air conditioners/heaters), pad and pedestal mounts, to NEMA 4 and 4x style enclosures with an observation window.
- Panels, rails and accessories can be designed with specific mounting patterns so the enclosure arrives ready for configuration, integration and deployment. Instead of buying a standard product and having to modify it on-site, you can save time and money getting the right product for your project, exactly the way you want it.
- We utilize a variety of materials, coatings, finishes and treatments, as well as a number of hinge, latch, lock and hardware configurations.

GREAT LAKES CAN PROVIDE THE RIGHT PRODUCT FOR YOUR SPECIFIC INDUSTRIAL NEED

Talk to your Great Lakes representative about your industrial enclosure projects

- We will work with you to develop the right product, manufactured to your exact specifications, with a common part number, to be produced and inventoried in the most economical manner possible; your enclosure will arrive ready for integration and deployment.
- We will work from our portfolio of high quality enclosure designs which have been tested and certified to serve as a basis for your specific need.
- We will work with you to find the optimum production numbers, stocking levels and delivery methods to meet your project timeline.

we Rack your World!



I INDUSTRIAL

EXAMPLES OF INDUSTRIAL ENCLOSURES



TYPE 4X

This Type 4, 4X powder coated aluminum enclosure has double doors with formed hinges, quarter turn locks and a removable center mullion.



TYPE 4

This Type 4 enclosure is made from powder-coated cold rolled steel with formed hinge and quarter-turn lock. It is shown with an observation window, available on all enclosures.



TYPE 3R

This 3R "pagoda style" enclosure is designed for integrated ventilation fans, to accommodate heat management in an industrial enclosure. It is made from powder coated cold rolled steel with a single removable door and quarter turn latches. It is vented top and bottom.



Shown with optional accessories

TYPE 4X

This Type 4X aluminum, clamp cover junction box is for indoor or outdoor applications requiring protection of terminal wiring, electrical and instrumentation controls. It can be installed in various corrosive environments.



Shown with optional accessories

TYPE 4

This Type 4, powder coated, cold rolled steel, quarter-turn latching enclosure is for indoor or outdoor applications requiring protection of terminal wiring, electrical components, and electronic hardware requiring 19" EIA mounting.



TYPE 3R

This Type 3, powder coated, cold rolled steel, screw cover junction box is used for indoor or outdoor applications requiring protection of terminal wiring and its connection hardware.

ACCESSORY O.P.T.I.O.N.S

Create custom configured enclosures based on unique needs. Accessories can be ordered with an enclosure and Great Lakes will install these items at no charge, prior to shipping; accessories can also be ordered 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
- Cable Bars
- Vertical Cable Troughs

POWER OPTIONS:

- Standard Power Strips
- Intelligent PDUs
- Grounding Equipment
- Mounting Brackets

Product marked with * are not manufactured by Great Lakes. Please see page 158 for warranty information.



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
7903E-24	Solid Steel Door, 79"H x 24"W Frame
7903E-29	Solid Steel Door, 79"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
9103E-24	Solid Steel Door, 91"H x 24"W Frame
9103E-29	Solid Steel Door, 91"H x 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
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
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
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

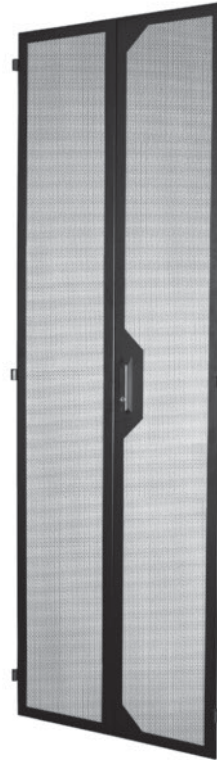
PART NO.	DESCRIPTION
8402E-24PVM	Perimeter Vented Mesh Door, 84"H x 24"W Frame
8402E-29PVM	Perimeter Vented Mesh Door, 84"H x 29" and 30"W Frame

A DOORS



MESH CONTOUR DOORS

PART NO.	DESCRIPTION
4802E-MC24	Mesh Contour Door, 48"H x 24"W Frame
7902E-MC24	Mesh Contour Door, 79"H x 24"W Frame
7902E-MC29	Mesh Contour Door, 79"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
9102E-MC24	Mesh Contour Door, 91"H x 24"W Frame
9102E-MC29	Mesh Contour Door, 91"H x 30"W Frame



SPLIT MESH DOORS

PART NO.	DESCRIPTION
7902E-24SM	Split Mesh Steel Door, 79"H x 24"W Frame
7902E-29SM	Split Mesh Steel Door, 79"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
9102E-24SM	Split Mesh Steel Door, 91"H x 24"W Frame
9102E-29SM	Split Mesh Steel Door, 91"H x 30"W Frame



SPLIT FAN DOORS

PART NO.	DESCRIPTION
4803E-SF24	Split Fan Door set, 48"H x 24"W Frame
7903E-SF24	Split Fan Door set, 79"H x 24"W Frame
7903E-SF29	Split Fan Door set, 79"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
9103E-SF24	Split Fan Door set, 91"H x 24"W Frame
9103E-SF29	Split Fan Door set, 91"H x 30"W Frame



SPLIT SOLID DOORS

PART NO.	DESCRIPTION
7903E-SS24	Split Solid Door set, 79"H x 24"W Frame
7903E-SS29	Split Solid Door set, 79"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
9103E-SS24	Split Solid Door set, 91"H x 24"W Frame
9103E-SS29	Split Solid Door set, 91"H x 30"W Frame



MESH INSERTS FOR PLEXIGLAS DOORS

PART NO.	DESCRIPTION
MESH300E-24	Mesh Insert for 300E Door
MESH480E-24	Mesh Insert for 480E Door
MESH600E-24	Mesh Insert for 600E Door
MESH720E-24	Mesh Insert for 720E-24 Door
MESH720E-29	Mesh Insert for 720E-29 Door
MESH840E-24	Mesh Insert for 840E-24 Door
MESH840E-29	Mesh Insert for 840E-29 Door



DOORS FOR EN ENCLOSURES

PART NO.	DESCRIPTION
7802EN-M32	Mesh Door for 78"H x 32"W EN
7802EN-32SM	Split Mesh Door for 78"H x 32"W EN
7802EN-40SM	Split Mesh Door for 78"H x 40"W EN
8402EN-M32	Mesh Door for 84"H x 32"W EN
8402EN-32SM	Split Mesh Door for 84"H x 32"W EN
8402EN-40SM	Split Mesh Door for 84"H x 40"W EN
9102EN-M32	Mesh Door for 91"H x 32"W EN
9102EN-32SM	Split Mesh Door for 91"H x 32"W EN
9102EN-40SM	Split Mesh Door for 91"H x 40"W EN

A DOOR HANDLES



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 a padlock (Padlock not included).



PART NO.
GL-KEYS

DESCRIPTION
Set of 2 Keys

Great Lakes Enclosures have a wide variety of handles that can be integrated into the enclosure. Traditional keyed mechanical handles are standard, but other mechanical handles can include 3 or 4 pin combination or hasp locks. Electromechanical handles can range from stand-alone RFID or PIN, security system integrated, or even biometric handles. For more information about intelligent handles, please call 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
7910-36ELS	Pair Locking Lift-off Solid Side Panels for 79"H x 42" and 48"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
9110-36ELS	Pair Locking Lift-off Solid Side Panels for 91"H x 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
7911-36ELL	Pair Locking Lift-off Vented Side Panels for 79"H x 42" and 48"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
9111-36ELL	Pair Locking Lift-off Vented Side Panels for 91"H x 42" and 48"D Frame

A TOP PANELS FOR ES/EN ENCLOSURES



PART NO.
TPES-S

DESCRIPTION
Solid Top Panel for ES Enclosures

TPEN-S



PART NO.
TPES-P

DESCRIPTION
Perforated Top Panel for ES Enclosures

TPEN-P



PART NO.
TPES-B

DESCRIPTION
Top Panel with brush grommet for ES Enclosures

TPEN-B



PART NO.
TPES-F10

DESCRIPTION
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for ES Enclosures

TPES-F10-230

TPEN-F10



PART NO.
TPES-2F10

DESCRIPTION
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for ES Enclosures

TPES-2F10-230

TPEN-2F10



PART NO.
TPES-F

DESCRIPTION
Top Panel and Fan Assembly with three, 75 CFM fans (115V) for ES Enclosures

TPES-F-230

TPEN-F

DC Fans are also available, visit werackyourworld.com

DC Fans are also available, visit werackyourworld.com

BOTTOM PANELS FOR ES ENCLOSURES

A



BRUSH GROMMET BOTTOM PANELS

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



SOLID BOTTOM PANELS

PART NO.	DESCRIPTION
BPSES2442	Solid Bottom Panel assembly for 24"W x 42"D ES Enclosures
BPSES3042	Solid Bottom Panel assembly for 30"W x 42"D ES Enclosures
BPSES2448	Solid Bottom Panel assembly for 24"W x 48"D ES Enclosures
BPSES3048	Solid Bottom Panel assembly for 30"W x 48"D ES Enclosures



CABINET EXTENSIONS

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	Power strip Mounting Bracket for cabinet extension; allows mounting of a single button mounted PDU

A TOP PANELS FOR E ENCLOSURES



PART NO.
TPE-24S

DESCRIPTION
Solid Top Panel for 24"W enclosure

TPE-29S
Solid Top Panel for 29"W enclosure



PART NO.
TPE-24P

DESCRIPTION
Perforated Top Panel for 24"W enclosure

TPE-29P
Perforated Top Panel for 29"W enclosure



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



PART NO.
TPE-24F10

DESCRIPTION
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for 24"W enclosure

TPE-29F10
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for 29"W enclosure

TPE-24F10-230
Top Panel and Fan Assembly with one 10", 550 CFM fan (230V) for 24"W enclosure

TPE-29F10-230
Top Panel and Fan Assembly with one 10", 550 CFM fan (230V) for 29"W enclosure



PART NO.
TPE-242F10

DESCRIPTION
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for 24"W enclosure

TPE-292F10
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for 29"W enclosure

TPE-242F10-230
Top Panel and Fan Assembly with two 10", 550 CFM fans (230V) for 24"W enclosure

TPE-292F10-230
Top Panel and Fan Assembly with two 10", 550 CFM fans (230V) for 29"W enclosure



PART NO.
TPE-24F

DESCRIPTION
Top Panel and Fan Assembly with three, 75 CFM fans for 24"W enclosure (115V)

TPE-29F
Top Panel and Fan Assembly with three, 75 CFM fans for 29"W enclosure (115V)

TPE-24F-230
Top Panel and Fan Assembly with three, 75 CFM fans for 24"W enclosure (230V)

TPE-29F-230
Top Panel and Fan Assembly with three, 75 CFM fans for 29"W enclosure (230V)

FFK2
Three Fan Filters for use with TPE-24F, TPE-29F and TPES-F

DC Fans are also available, visit werackyourworld.com

DC Fans are also available, visit werackyourworld.com

BOTTOM PANELS FOR E ENCLOSURES

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



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



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



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



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



A MOUNTING RAILS



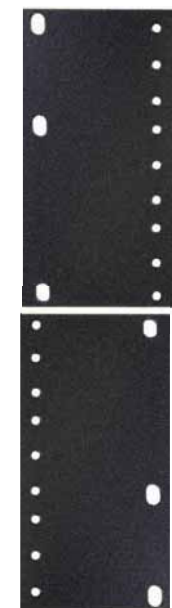
PAIR OF EIA 3/8" SQ. (M6) MOUNTING RAILS

PART NO.	DESCRIPTION
3005-E2P	19" Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 30"H enclosure
4805-E2P	19" Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 48"H enclosure
6005-E2P	19" Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 60"H enclosure
7205-ES2P	19" (or 23") Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 72"H enclosure
7905-ES2P	19" Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 78"H enclosure
8405-ES2P	19" (or 23") Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 84"H enclosure
9105-ES2P	19" (or 23") Mounting Rails to accept 3/8" sq. (M6) Cage Nuts for 91"H enclosure



PAIR OF EIA #10-32 MOUNTING RAILS

PART NO.	DESCRIPTION
7205-ES1P	19" (or 23") tapped #10-32 Mounting Rails for 72"H enclosure
7905-ES1P	19" tapped #10-32 Mounting Rails for 78"H enclosure
8405-ES1P	19"(or 23") tapped #10-32 Mounting Rails for 84"H enclosure
9105-ES1P	19"(or 23") tapped #10-32 Mounting Rails for 91"H enclosure



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

CONVERSION KITS

PART NO.	DESCRIPTION
ES23K-42	Conversion Kit to convert from 19" to 23" mounting for 30"W x 42" and 48"D ES Enclosures (pictured)
E23K-32	Conversion Kit to convert from 19" to 23" mounting for 29"W x 32"D E Enclosures
E23K-36	Conversion Kit to convert from 19" to 23" mounting for 29"W x 36"D E Enclosures





MOUNTING HARDWARE

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
HDW-107-25	Package of 50 Cage Nuts with #12-24 x 1/2" screws
HDW-107-50	Package of 50 Cage Nuts with #12-24 x 1/2" screws
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 KITS

PART NO.	DESCRIPTION
G101	Kit for E Enclosures
G101ES	Kit for ES Enclosures
G101EN	Kit for EN Enclosures
G101EN2ES	Kit to gang EN to ES Enclosures



RACKSTUDS

PART NO.	DESCRIPTION
HDW-108RS-24	Package of 24 RackStuds®; includes stud, washer, and mounting cap



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

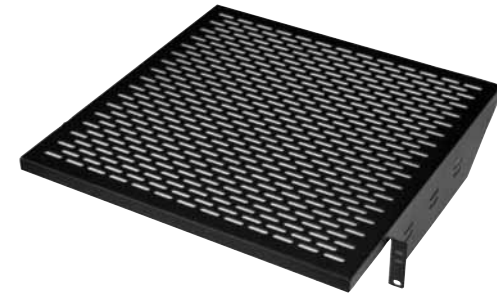
A STATIONARY SHELVES



PART NO. 7206-BT
DESCRIPTION Dimensions 17" x 20.75";
 Weight Capacity 300 lbs.; 3 RMU
 Maximum Tab Placement 25.25"



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



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



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

* Fits in 36"D Enclosure



PART NO. 1984ST09
DESCRIPTION 19"W x 9"D; Weight Capacity
 75 lbs.; 3 RMU
 1984ST15 19"W x 15"D; Weight Capacity
 75 lbs.; 3 RMU

Shelves are for use with 2 Post Racks; a
 combination of any 2 shelves can be mounted
 back to back for extra depth

SLIDING SHELVES

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

7206-FRSL-ADHD 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 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 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 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



Accessories shown for demonstration only.

MONITOR/KEYBOARD/MOUSE SHELF

PART NO. 7206-MKM
DESCRIPTION 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 CASTERS AND LEVELERS



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



HEAVY DUTY E CASTERS

PART NO.	DESCRIPTION
7208-EHD	One set of four Heavy Duty Casters, all locking



NON-LOCKING ES CASTERS

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



NON-LOCKING EN CASTERS

PART NO.	DESCRIPTION
7208-EN	One set of four caster assemblies



CASTERS FOR RACKS & WALL MOUNTS

PART NO.	DESCRIPTION
7208-4PHD	One set of 4 Casters; for Heavy Duty 4 Post Rack
7208-WS	One set of 5 Casters; 2 locking and 3 non-locking; for WS Wall Mounts
7208-WD	One set of 5 Casters; 2 locking and 3 non-locking; for WD Wall Mounts

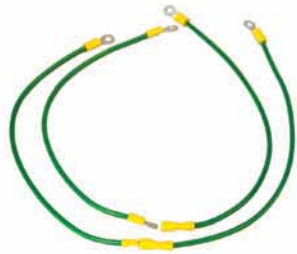


LEVELERS

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

GROUNDING & MOUNTING BRACKETS

A



GROUNDING KITS

PART NO.	DESCRIPTION
GR101	Grounding Kit for enclosures; includes quick disconnect grounding wires and hardware
GR102	Grounding Kit for use with WM, WS, WD and WE wall mounts

Please note: grounding kits are included with enclosures, wall mounts and racks that are UL2416 Listed.



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, 30"W ES, and all EN Enclosures
ZR2	Same as above except allows vertical mounting of any 2 RMU equipment



PDU MOUNTING BRACKETS

PART NO.	DESCRIPTION
PSBKES-R-30	Set of two PDU brackets to allow vertical mounting of single PDU; attaches to back side of rail; for 30"W ES enclosure



COPPER BUS BARS

PART NO.	DESCRIPTION
CBB-19	Bus Bar for 19" mounting
CBB-30	Bus Bar for the 30"H 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 79"H and 84"H enclosures
CBB-78	Bus Bar for 91"H enclosures

All Bus Bars are isolated.



PDU MOUNTING BRACKETS

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



PDU MOUNTING BRACKETS

PART NO.	DESCRIPTION
PSBKES-A-3042	Set of two PDU brackets (with 2 mounting positions) to allow angled, vertical mounting of PDUs; for 3042ES
PSBKES-A-3048	Set of two PDU brackets (with 4 mounting positions) to allow angled, vertical mounting of PDUs; for 3048ES

A POWER

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

All standard power strips are UL Listed. Please note the following:

- 15 amp (derated 12 amp)
- 20 amp (derated 16 amp)
- 30 amp (derated 24 amp)

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 phase)
- 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 134 will help you find the right PDU for your needs. Visit werackyourworld.com to download an Electrical Configuration Order Form (as seen on page 138).

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	Receptacle Type	Receptacle Diagram	Plug Type	Plug Diagram	Surge
7219	6	5-15R		5-15P		
7219-SR14	6 front/8 back	5-15R		5-15P		✓
7219-20AR	6	5-20R		5-20P		
7219-20ARTLP	6	5-20R		L5-20P		



15 AMP, 125 VOLT POWER STRIPS FOR VERTICAL MOUNTING

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

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

Part Number	Number of Receptacles	Receptacle Type	Receptacle Diagram	Plug Type	Plug Diagram	Surge
7215-20ARTLP	16	5-20R		L5-20P		
7215-20AR	16	5-20R		5-20P		
7215-30A	24	5-20R		L5-30P		



































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

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

IEC

*Rating for CE products

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/4Wire	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

AIRFLOW ACCESSORIES

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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.

"KL" products are part of Upsite Technologies' KoldLok® product line.



PART NO.
GLKL1010CP

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

GLKL3030CP

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



PART NO.
GLKL2020CP

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

GLKL2030CP

Split Surface Mount Floor Grommet to seal openings 10" x 9.75"; pack of 10

GLKL2040CP

Split Surface Mount Floor Grommet to seal openings 10" x 13"; pack of 10



PART NO.
GLKL10077CP

DESCRIPTION
Split Mini 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

GLKL20101CP

Cover for Wave Split Integral Floor Grommet; pack of 10



PART NO.
GLKL10012CP

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

GLKL10013CP

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



PART NO.
GLKL40001CP

DESCRIPTION
4" Split Round Floor Grommet; pack of 10

GLKL40003CP

6" Split Round Floor Grommet; pack of 10

A AIRFLOW ACCESSORIES



RACK TOP BAFFLES*

Rack top baffles provide a quick, out-of-the box containment solution. Baffles attach directly to the top of the rack magnetically; adjustable magnetic mounting tails can be positioned to fit the top of most enclosures. Angle baffles (30°) are recommended for use in cold aisle installations, and vertical baffle (90°) are recommended for use in hot aisle installations.

PART NO.	DESCRIPTION
GLAL10160-24	Angle Baffle for 24"W enclosure; designed for cold aisle applications
GLAL10160-30	Angle Baffle for 30"W enclosure; designed for cold aisle applications
GLAL10160-31.5	Angle Baffle for 31.5"W enclosure; designed for cold aisle applications
GLAL10161-24	Vertical Baffle for 24"W enclosure; designed for hot aisle applications
GLAL10161-30	Vertical Baffle for 30"W enclosure; designed for hot aisle applications
GLAL10161-31.5	Vertical Baffle for 31.5"W enclosure; designed for hot aisle applications

"AL" products are part of Upsite Technologies' AisleLok® product line.



BI-DIRECTIONAL DOORS*

Bi-Directional Doors for containment applications install in a matter of minutes. Each door attaches directly to the side of the enclosure using twist-locking magnets. Bi-directional swinging hinges allow easy open and closing; door stops can be used to hold the door open. Doors support aisle widths of 48". Doors will require a minimum of 6" clearance from the front edge of the cabinet along its entire height for the hinges to attach.

PART NO.	DESCRIPTION
GLAL10163-42	Set of doors for 42 RMU enclosures
GLAL10163-45	Set of doors for 45 RMU enclosures
GLAL10163-48	Set of doors for 48 RMU enclosures

"AL" products are part of Upsite Technologies' AisleLok® product line.



ADJUSTABLE RACK GAP PANELS*

Use the Adjustable Rack Gap Panel to close off gaps between racks, such as gaps created by building support columns or missing IT enclosures. The panel easily attaches directly to the rack side panel magnetically. Panels adjust to close gaps between 10 to 60"W. Panels are reversible: one side is black and one white.

PART NO.	DESCRIPTION
GLAL10164-42	Panel for 42 RMU enclosures
GLAL10164-45	Panel for 45 RMU enclosures
GLAL10164-48	Panel for 48 RMU enclosures
GLAL10164-50	Panel for 50 RMU enclosures

"AL" products are part of Upsite Technologies' AisleLok® product line.

AIRFLOW ACCESSORIES

A



PASS THROUGH FILLER PANEL BY UPSITE TECHNOLOGIES*

PART NO. DESCRIPTION

- GLHL10112CP 1 RMU Pass Through Filler Panel for 19" mounting, pack of 10
- GLHL10113CP 2 RMU Pass Through Filler Panel for 19" mounting, pack of 10

"HL" products are part of Upsite Technologies' HotLok® product line.



PLASTIC FILLER PANELS BY UPSITE TECHNOLOGIES*

PART NO. DESCRIPTION

- GLHL10031CP 1 RMU snap-in panels, 19" mounting for use with 3/8" sq. (M6) and #12-24 rails; pack of 10; black
- GLHL10114CP 1 RMU snap-in panels, pack of 10; white
- GLHL10035CP 1 RMU snap-in panels with temperature strip, 19" mounting for use with 3/8" sq. (M6) and #12-24 rails; pack of 10; black
- GLHL10033CP 2 RMU snap-in panels, 19" mounting for use with 3/8" sq. (M6) and #12-24 rails; pack of 5; black
- GLHL10115CP 2 RMU snap-in panels, pack of 10; white
- GLHL10038CP 2 RMU snap-in panels with temperature strip, 19" mounting for use with 3/8" sq. (M6) and #12-24 rails; pack of 5; black
- GLHL10009CP Pack of 10 temperature strips

"HL" products are part of Upsite Technologies' HotLok® product line.



UNDER RACK PANELS BY UPSITE TECHNOLOGIES*

Under Rack Panels are used to seal openings below enclosures to block bypass air flow and maximize cooling.

PART NO. DESCRIPTION

- GLAL10126CP Under Rack Panel, overall dimensions 27.5" x 4.53" x 1"; pack of 10
- GLAL10127CP Under Rack Panel, overall dimensions 31.5" x 4.53" x 1"; pack of 10

"AL" products are part of Upsite Technologies' AisleLok® product line.



ACRYCELL™ SEALING TAPE BY UPSITE TECHNOLOGIES*

Sealing Tape is used to seal openings between enclosures in a row to block bypass air flow and maximize cooling.

PART NO. DESCRIPTION

- GLAL10108-001CP .5" Sealing Tape, 10m roll
- GLAL10108-002CP 1" Sealing Tape, 5.6m roll
- GLAL10108-003CP 2" Sealing Tape, 2.6m roll

"AL" products are part of Upsite Technologies' AisleLok® product line.

A AIRFLOW ACCESSORIES



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



TOOL-LESS FILLER PANELS FOR 19" MOUNTING

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

Additional sizes as well as filler panels for 23" mounting; please call for availability.



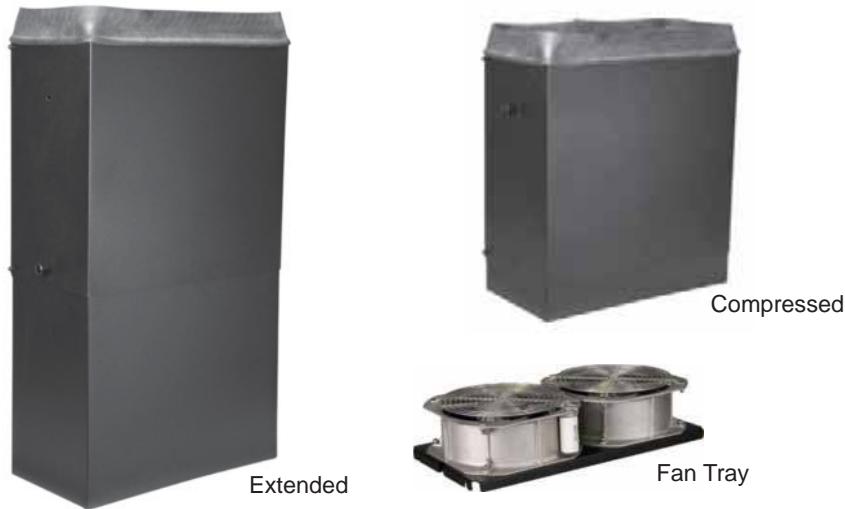
FILLER PANELS FOR 19" MOUNTING

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



BRAND YOUR ENCLOSURES

Filler panels, name plates for mesh doors, and additional items (id tags, side panels, plexiglas doors, etc.) can be branded with your company logo or other graphics.



ADJUSTABLE EXHAUST CHIMNEYS

Great Lakes Exhaust Chimney serves as a duct that assists in the removal of hot air from ES 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

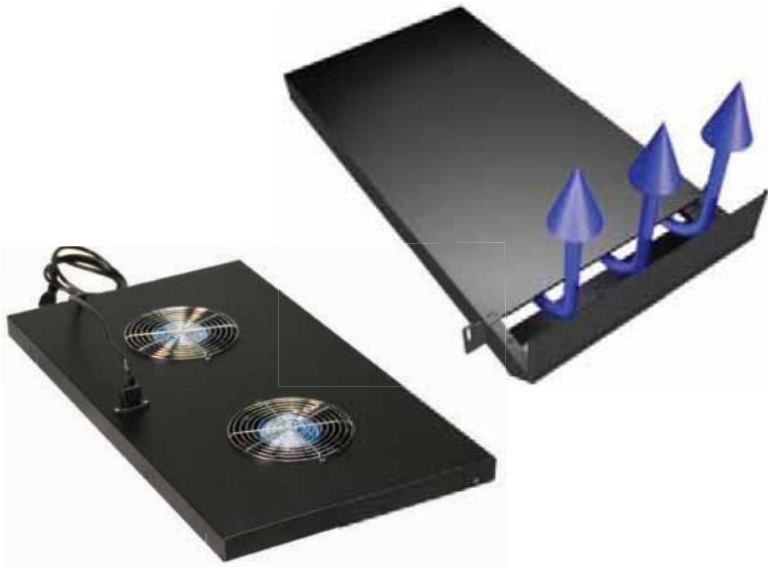


FLEXIBLE DUCT CHIMNEYS

In a data center, enclosures in a row may not align with ceiling tiles and the overhead duct system. The Flexible Duct Chimney Kit comes with a 24" x 24" ceiling panel to be installed in a drop ceiling (near the enclosure to be ducted). A 5 foot section of double ply black polyester hose is attached to the ceiling panel with a collar; the second end of the hose is attached to an enclosure adapter which fits over the large rear knockout on the top of 48"D ES Server Enclosures.

PART NO.	DESCRIPTION
ECDHF48	High Flow Flexible Chimney Kit for 48"D Enclosure; kit includes 24" x 24" ceiling panel, high flow enclosure adapter, two 5' sections of double ply black polyester fabric hoses, four duct collars
ECD48	Flexible Chimney Kit for 48"D Enclosure; kit includes 24" x 24" ceiling panel, enclosure adapter, two 5' sections of double ply black polyester fabric hoses, four duct collars
GL-ECHFFT48	High Flow Fan tray for 48"D enclosure, 2260 CFM
GL-ECFT48	Fan tray for 48"D enclosure, 1200 CFM

A AIRFLOW ACCESSORIES



AIR MANAGER

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

PART NO.	DESCRIPTION
AM-HFES	High Flow Air Manager Assembly, 19" EIA, 2 RMU
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, 1 RMU
AM-FTES24	Air Manager Fan Tray, for 24"W Enclosure, 600 CFM
AM-FTES30	Air Manager Fan Tray, for 30"W Enclosure, 600 CFM



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 enclosure rails.

PART NO.	DESCRIPTION
BGRK24	Kit for 24"W x 79" and 84"H ES enclosures
BGRK30	Kit for 30"W x 79" and 84"H ES enclosures
BGRK91-24	Kit for 24"W x 91"H ES enclosures
BGRK91-30	Kit for 30"W x 91"H ES enclosures
BGRK-32EN	Kit for 32"W x 78" and 84"H EN enclosures
BGRK-40EN	Kit for 40"W x 78" and 84"H EN enclosures
BGRK91-32EN	Kit for 32"W x 91"H EN enclosures
BGRK91-40EN	Kit for 40"W x 91"H EN enclosures

AIRFLOW ACCESSORIES A



BRUSH GROMMET AND EDGE GROMMET

PART NO.	DESCRIPTION
TP42ESBB	Brush Grommet Kit to cover top chimney knockout; for 42"D ES Enclosure
TP48ESBB	Brush Grommet Kit to cover top chimney knockout; for 48"D ES Enclosure
BGT	Brush Grommet Kit to cover top cable pass through knockouts on 30"W ES Enclosures
BGS-79	Brush Grommet Kit to cover rear vertical cable pass through; for 79"H ES Enclosures
BGS-84	Brush Grommet Kit to cover rear vertical cable pass through; for 84"H x 42"D ES Enclosures
BGS-84-48	Brush Grommet Kit to cover rear vertical cable pass through; for 84"H x 48"D ES Enclosures
BGS-91	Brush Grommet Kit to cover rear vertical cable pass through; for 91"H x 42"D ES Enclosures
BGS-91-48	Brush Grommet Kit to cover rear vertical cable pass through; for 91"H x 48"D ES Enclosures
GL-EG	Edge Grommet for use around metal edge after removal of knockouts; 1/16" edge thickness, 5/16" edge length, available by the foot



FOAMBLOCK™

FoamBlock is a trademark of Great Lakes Case & Cabinet Co., Inc.

PART NO.	DESCRIPTION
FoamBlock	6 Sheets of 24" x 24" high density foam, perforated 1" x 1"

FOAM PROPERTIES:	English Units*	Test Standard
Density: (lb/ft ³ -kg/m ³):	2.0	Test A
Tensile Strength: (psi - KPa)	19±3	Test E
Elongation %:	100	Test E
Tear Resistance lb/in - N/M:	1.5	Test F
IFD (psi - KN/M ²):	45	
Compression Set (50%):	10	Test D
Pore Size (ppi):	65±	MVSS-302
Air Permeability: (SCFM-M ³ /min)	.6 to 2.2	ASTM C522
Thermal Conductivity: (BTU/hr. ft ² , °F/in.) (K. Cal/hr. m ² , °C/m)	.25	ASTM C-177 ASTM C-177
Flame Resistance:	HF-1 PASS PASS PASS	UL 94 FAR.853 (b) SAEJ-369 (b) MVSS-302

A BAFFLE KITS



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 are unique to EN and ES enclosures, creating the perfect fit between switch and enclosure!

Please see chart on page 51 to ensure baffle kit and equipment are compatible.

BAFFLE KITS FOR EN ENCLOSURES

PART NO.	DESCRIPTION
ENSAB25	Baffle Kit for use with 28.5"D to 32"D, 14 RMU Cisco and other side-to-side airflow equipment; for proper airflow, this size switch and baffle should only be used in 40"W enclosures
ENSAB19	Baffle Kit for use with 15.8"D to 18.5"D, 19 RMU CISCO and other side-to-side airflow equipment; for use with 32"W x 42"D Enclosures
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; for use with 32"W x 42"D Enclosures
ENSAB14A	Baffle Kit for use with 21.9"D to 24.1"D, 14 RMU Cisco and other side-to-side airflow equipment; for proper airflow, this size switch and baffle should only be used in 40"W enclosures
ENSAB14D	Baffle Kit for use with 25.7"D to 28"D, 14 RMU, CISCO and other side-to-side airflow equipment; for use with 32"W x 42"D Enclosures
ENSAB11	Baffle Kit for use with 15.8"D to 18.1"D, 11 RMU CISCO and other side-to-side airflow equipment; for use with 32"W x 42"D Enclosures
ENSAB7A	Baffle Kit for use with 21.8"D to 24"D, 7 RMU CISCO and other side-to-side airflow equipment; for use with 40"W Enclosures

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

weRack your World!

CONTAINMENT AND AISLE DOORS

A



HORIZONTAL PANELS

Please call 1.866.TRY.GLCC for details



VERTICAL PANELS

Please call 1.866.TRY.GLCC for details



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 91, 84 and 79"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. Please call for availability.

PART NO. DESCRIPTION

ACD910ES	Aisle Containment Doors for 91"H ES Enclosure; supports aisle width of 48-72"
ACD840ES	Aisle Containment Doors for 84"H ES Enclosure; supports aisle width of 48-72"
ACD790ES	Aisle Containment Doors for 79"H ES Enclosure; supports aisle width of 48-72"



CONTAINMENT PANELS AND DOORS

Please call 1.866.TRY.GLCC for details

A FAN ASSEMBLIES



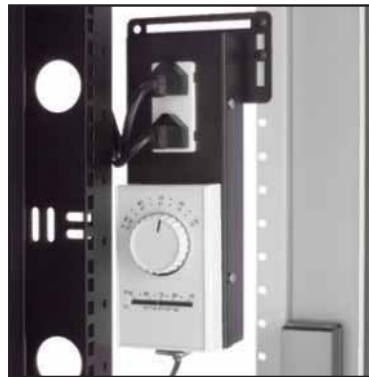
PART NO.	DESCRIPTION
7217FT-3	Fan Tray (front/rear mount adjustable) with Fan Guards and three 75 CFM Fans (115V), 2 RMU
7217FT-6	Fan Tray (front/rear mount adjustable) with Fan Guards and six 75 CFM Fans (115V), 2 RMU
7217FT-9	Fan Tray (front/rear mount adjustable) with Fan Guards and nine 75 CFM Fans (115V), 2 RMU
7217FT-3-230	Fan Tray (front/rear mount adjustable) with Fan Guards and three 75 CFM Fans (230V), 2 RMU
7217FT-6-230	Fan Tray (front/rear mount adjustable) with Fan Guards and six 75 CFM Fans (230V), 2 RMU
7217FT-9-230	Fan Tray (front/rear mount adjustable) with Fan Guards and nine 75 CFM Fans (230V), 2 RMU



PART NO.	DESCRIPTION
7217FT	Fan Assembly with Fan Guards and three 75 CFM Fans, 2 RMU (115V)
7217FT-220	Fan Assembly with Fan Guards and three 75 CFM Fans, 2 RMU (220V)
FTBKT90	Fan Bracket to mount 7217FT at 90° angle



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



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



FAN THERMOSTAT CONTROLLER	
PART NO.	DESCRIPTION
FTC103	Variable Speed Fan Controller to throttle fans from 60 - 100% speed; Includes temperature probe with 10' cord and 3' outlet cord (C13 to C14); 95-250V, 2.0 amp load

CABLE MANAGEMENT FOR RACKS A



VERTICAL CABLE ORGANIZERS

PART NO.	DESCRIPTION
VCM12-FO	Vertical Front Cable Management, 12" Channel x 80"L; includes black hinge cover
VCM8-FR	Vertical Front & Rear Cable Management, 8" Channel x 80"L; includes 4 spools, 12 wire retainers, and black hinge cover
VCM8-FO	Vertical Front Cable Management, 8" Channel x 80"L; includes 2 spools, 6 wire retainers, and black hinge cover; Note: Not compatible with 4PHD-2436 and 4PM6 racks
VCM5-FR	Vertical Front & Rear Cable Management, 5" Channel x 80"L; includes black snap-on cover
VCM5-FO	Vertical Front Cable Management, 5" Channel x 80"L; includes black snap-on cover; Note: Not compatible with 4PHD-2436 and 4PM6 racks

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
VCM5-BKT	Pack of two brackets to secure 5" channel to a second rack (when channel is between two racks)



VCM8-SL



VCM8-WR



VCM8-BKT



VCM5-SL



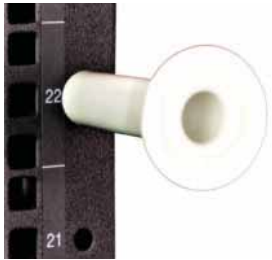
VCM5-HNG

19" CABLE ORGANIZERS

PART NO.	DESCRIPTION
CM-15	Double-sided Cable Organizer with plastic fingers and covers, front, 2 RMU, 3" x 3"; rear, 1 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 RINGS



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



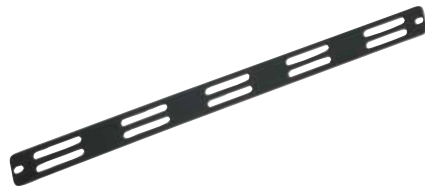
CABLE RING

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, 30"W ES, and all EN Enclosures



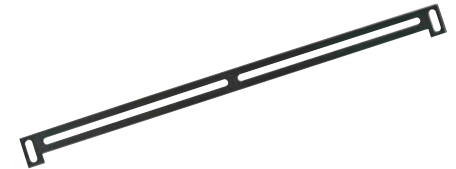
CABLE MANAGEMENT PANEL

PART NO.	DESCRIPTION
CM-10	Horizontal Panel for 19" mounting, .25" x 2" opening, 1 RMU, Ideal for use with CM-01 cinch straps



STRAIN RELIEF BAR

PART NO.	DESCRIPTION
CM-03	Back Side Cable Management Bar, for 19" mounting, 1 RMU



STRAIN RELIEF BAR

PART NO.	DESCRIPTION
CM-19	Utility Strain Relief Bar for 19" mounting, 1 RMU

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



SIDE VIEW

PART NO.
CM-15

DESCRIPTION
Double-sided Cable Organizer with plastic fingers and covers, front, 2 RMU, 3" x 3"; rear, 1 RMU, 1.5" x 3"



PART NO.
CM-07

DESCRIPTION
Waterfall Cable Organizer, 1 RMU



PART NO.
CM-04

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



PART NO.
CM-05

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



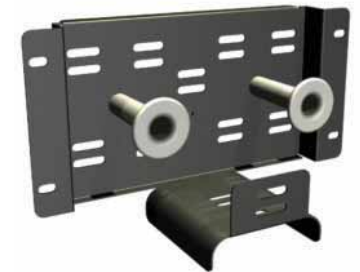
PART NO.
CM-08

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



PART NO.
CM-09

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



PART NO.
CM-14

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

A CABLE MANAGEMENT



CABLE ORGANIZER

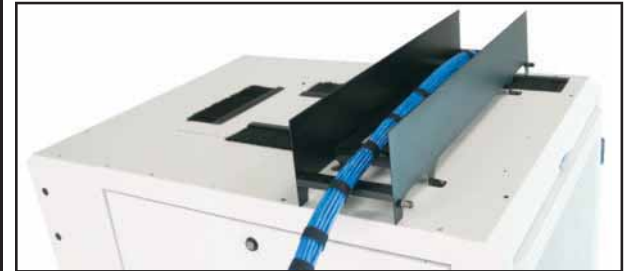
NEW! Cable Bars for 19" mounting include five, 1/4 turn "D" Rings. Square tabs on two sides of every ring allow for positioning in horizontal or vertical orientations.

PART NO.	DESCRIPTION
CM-23	1 RMU organizer with five, 1.5" x 3.5", 1/4 turn "D" rings
CM-24	2 RMU organizer with five, 3.5" x 5", 1/4 turn "D" rings



LADDER RACK BRACKETS

PART NO.	DESCRIPTION
LRB-12A1	One Height Adjustable Bracket (6.5-11.5") with hardware, supports 12"W ladder rack; load rating of 100 lbs. on EN and ES enclosures
LRB-12A2	One Height Adjustable Bracket (14-24") with hardware, supports 12"W ladder rack; load rating of 100 lbs. on EN and ES enclosures
LRB-24A1	One Height Adjustable Bracket (6.5-11.5") with hardware, supports 12, 18, & 24"W ladder rack; load rating of 100 lbs. on EN and ES enclosures
LRB-24A2	One Height Adjustable Bracket (14-24") with hardware, supports 12, 18, & 24"W ladder rack; load rating of 100 lbs. on EN and ES enclosures
LRB-12	One Fixed Height Bracket (3") with hardware, supports 12"W ladder rack
LRB-24	One Fixed Height Bracket (3") with hardware, supports 12, 18, & 24"W ladder rack



TOP CABLE TROUGHS

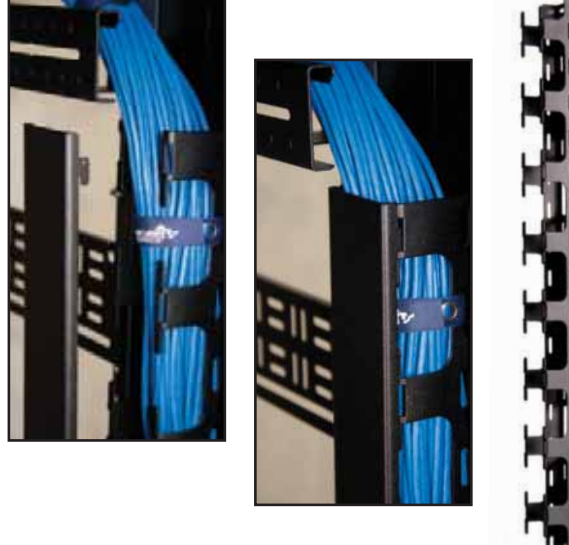
PART NO.	DESCRIPTION
TCT24	Top Cable Trough with hardware for 24"W ES Enclosures; 6.5"W x 4"D x 24"L
TCT30	Top Cable Trough with hardware for 30"W ES Enclosures; 6.5"W x 4"D x 30"L
TCT32	Top Cable Trough with hardware for 32"W EN Enclosures; 6.5"W x 4"D x 32"L
TCT40	Top Cable Trough with hardware for 40"W EN Enclosures; 6.5"W x 4"D x 40"L



CABLE MANAGEMENT RAIL KIT

Cable Management Rail Kits are made of multiple pieces of 7 RMU sections of “fingers.” When used with ES and E 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.

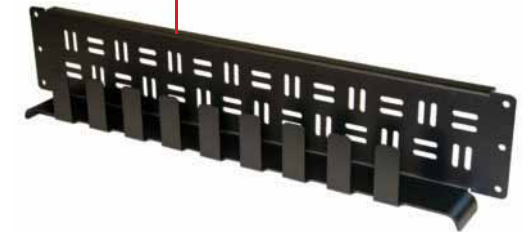
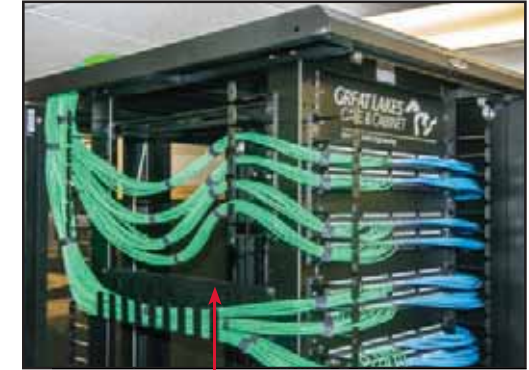
PART NO.	DESCRIPTION
ESC-K12	Rail Kit; includes 12 sections of “fingers” (each section, 7 RMU); if used with E and ES enclosures, rails will need to be recessed 4.5”
ENC-K24	Rail Kit; includes 24 sections of “fingers” (each section, 7 RMU); if used with E and ES enclosures, rails will need to be recessed 4.5”
CM-47	Single section of 7 RMU “fingers”; if used with E and ES enclosures, rails will need to be recessed 4.5”



VERTICAL 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-91	Vertical Cable Trough for 91”H ES Enclosure; 76”H x 3”W x 2.5”D
VCT-91C	Cover for VCT-91
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-79	Vertical Cable Trough for 79”H ES Enclosure; 62”H x 3”W x 2.5”D
VCT-79C	Cover for VCT-79



HORIZONTAL CABLE TROUGHS

Use Horizontal Cable Troughs to route cables from the front to the rear of ES and EN Enclosures.

PART NO.	DESCRIPTION
HCM-D36	Horizontal Cable Manager for any 30”W ES Enclosure
HCM-EN48	Horizontal Cable Manager for 48”D EN Enclosures
HCM-EN42	Horizontal Cable Manager for 42”D EN Enclosures

A CABLE MANAGEMENT



EXTERNAL CABLE MANAGER

The Great Lakes External Cable Manager or “Side Car” is designed to serve as a facilitator of your cabling needs, either between two 84”H ES Enclosures or at the end of a row. 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, a cover panel creates a clean appearance. Additional side cars available. Please visit WeRackYourWorld.com

PART NO.	DESCRIPTION
SC68442	External Cable Manager, 84”H x 6”W x 42”D, for use with 84”H x 42”D ES Enclosures
SC68448	External Cable Manager, 84”H x 6”W x 48”D, for use with 84”H x 48”D ES Enclosures
SC128442	External Cable Manager, 84”H x 12”W x 42”D; for use with 84”H x 42”D ES Enclosures
SC128448	External Cable Manager, 84”H x 12”W x 48”D; for use with 84”H x 48”D ES Enclosures
SCP8442	End Panel for External Cable Manager; for use with an 84”H x 42”D end-of-row enclosure
SCP8448	End Panel for External Cable Manager; for use with an 84”H x 48”D end-of-row enclosure



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

VISIT US ON



Facebook

or



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CABLE BAR KITS

All Cable Bar Kits include one vertical cable bar, two horizontal cable bars, and six 12" long cinch straps. Vertical bars are fully adjustable, moving independently of enclosure rails to route cable up and down where needed. Each bar features a square hole pattern for optional 1/4 turn "D" rings.

PART NO.	DESCRIPTION
VCB-4832	Vertical Cable Bar Kit for 480E-2432 Enclosure
VCB-4836	Vertical Cable Bar Kit for 480ES-2442 Enclosure
VCB-7232	Vertical Cable Bar Kit for 720E-32 Enclosure
VCB-7236	Vertical Cable Bar Kit for 720E-36 Enclosure
VCB-7936	Vertical Cable Bar Kit for 790ES Enclosure
VCB-8432	Vertical Cable Bar Kit for 840E-32 Enclosure
VCB-8436	Vertical Cable Bar Kit for 840E-36 and 840ES Enclosures
VCB-9136	Vertical Cable Bar Kit for 910ES Enclosure



HORIZONTAL & VERTICAL CABLE BARS

PART NO.	DESCRIPTION
HCB-32	Horizontal Cable Bar for 32"D Enclosure
HCB-36	Horizontal Cable Bar for 36", 42" and 48"D Enclosures
VCB-48	Vertical Cable Bar for 48"H Enclosure; 32"H x 4"W
VCB-72	Vertical Cable Bar for 72"H Enclosure; 56"H x 4"W
VCB-79	Vertical Cable Bar for 79"H Enclosure; 62"H x 4"W
VCB-84	Vertical Cable Bar for 84"H Enclosure; 68"H x 4"W
VCB-91	Vertical Cable Bar for 91"H Enclosure; 75"H x 4"W

All Vertical Cable Bars include six 12" long cinch straps



3.5" x 5" "D" Rings



1.5" x 3.5" "D" Rings

1/4 TURN "D" RINGS

Square tabs on two sides of every ring allow for positioning in horizontal or vertical orientations

PART NO.	DESCRIPTION
CM-25	Kit of 10, 1/4 turn "D" rings, 1.5" x 3.5"; recommended for use with horizontal cable bars
CM-26	Kit of 10, 1/4 turn "D" rings, 3.5" x 5"; recommended for use with vertical cable bars

WHERE EVER YOU GO, GO WITH GREAT LAKES!!!

Great Lakes is able to provide a number of shipping options TO GET YOUR ORDER EXACTLY WHERE IT NEEDS TO GO. BY CHOOSING "PRE-PAY AND ADD", YOUR PRODUCT WILL ARRIVE SAFELY!

WeRackYourWorld.com

When using "Pre-pay and Add", 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 will call you, issue an RMA and coordinate a pick-up. It is just that simple!

POLICIES

WARRANTY • PAYMENT • FREIGHT

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 will 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.



P POLICIES

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.



LISTED
UL2416

UL Logos in the catalog mean Great Lakes product is listed to UL60950-1 and UL2416 Standard for Information Technology and Communications Equipment, Wall Mounts, Enclosures and Rack Systems



LISTED
UL60950-1



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 Office of Statewide Health Planning and Development (OSHPD) Pre-approval (OPA) numbers are now available for Great Lakes most popular racks, enclosures, and wall mounts. Products were independently reviewed and submitted to OSHPD and are now certified to be in compliance with the seismic anchorage requirement outlined in Section 1708A.1.3 and Section 1708.4.2 of the 2010 California Building Code.



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.

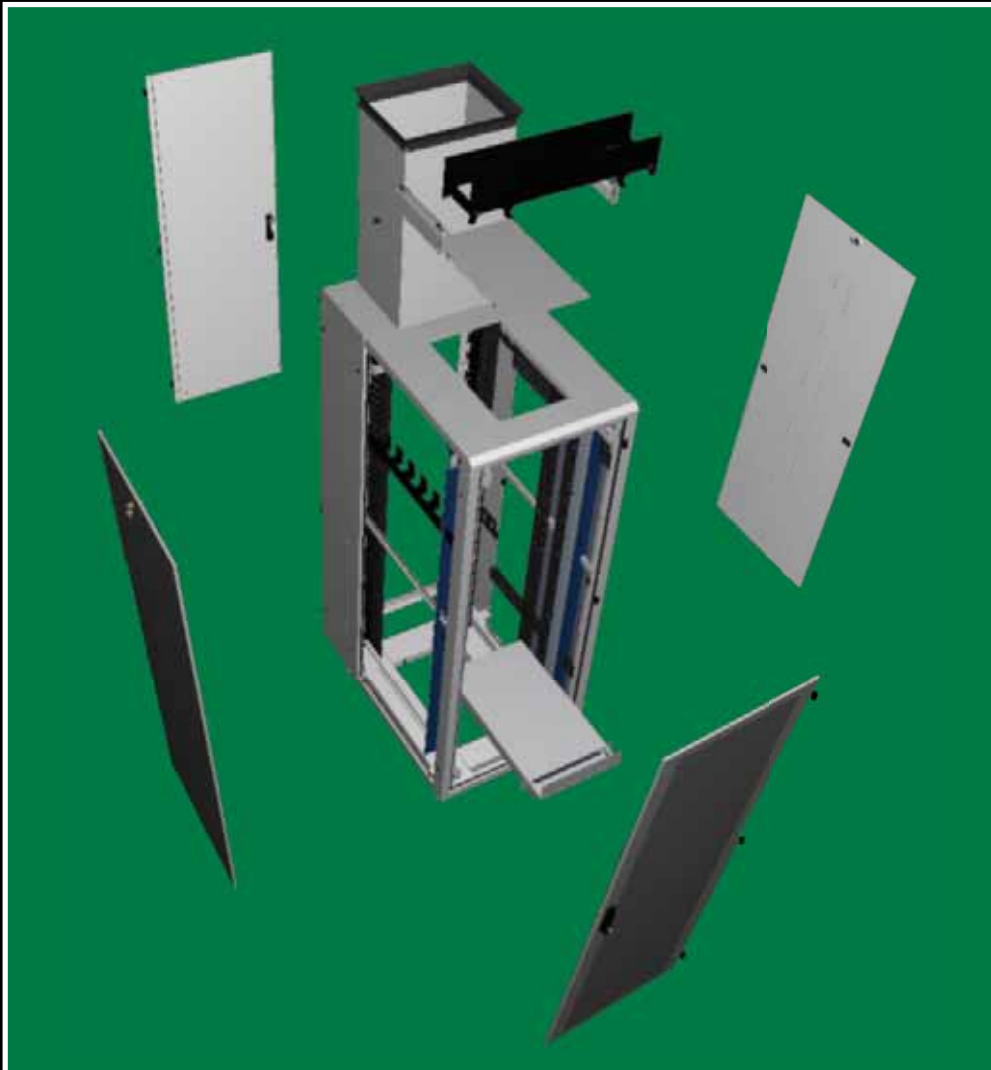


The Armed Forces Communications and Electronics Association (AFCEA) International, established in 1946, is a non-profit membership association serving the military, government, industry, and academia as an ethical forum for advancing professional knowledge and relationships in the fields of communications, 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 D · R · A · W · I · N · G · S



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.

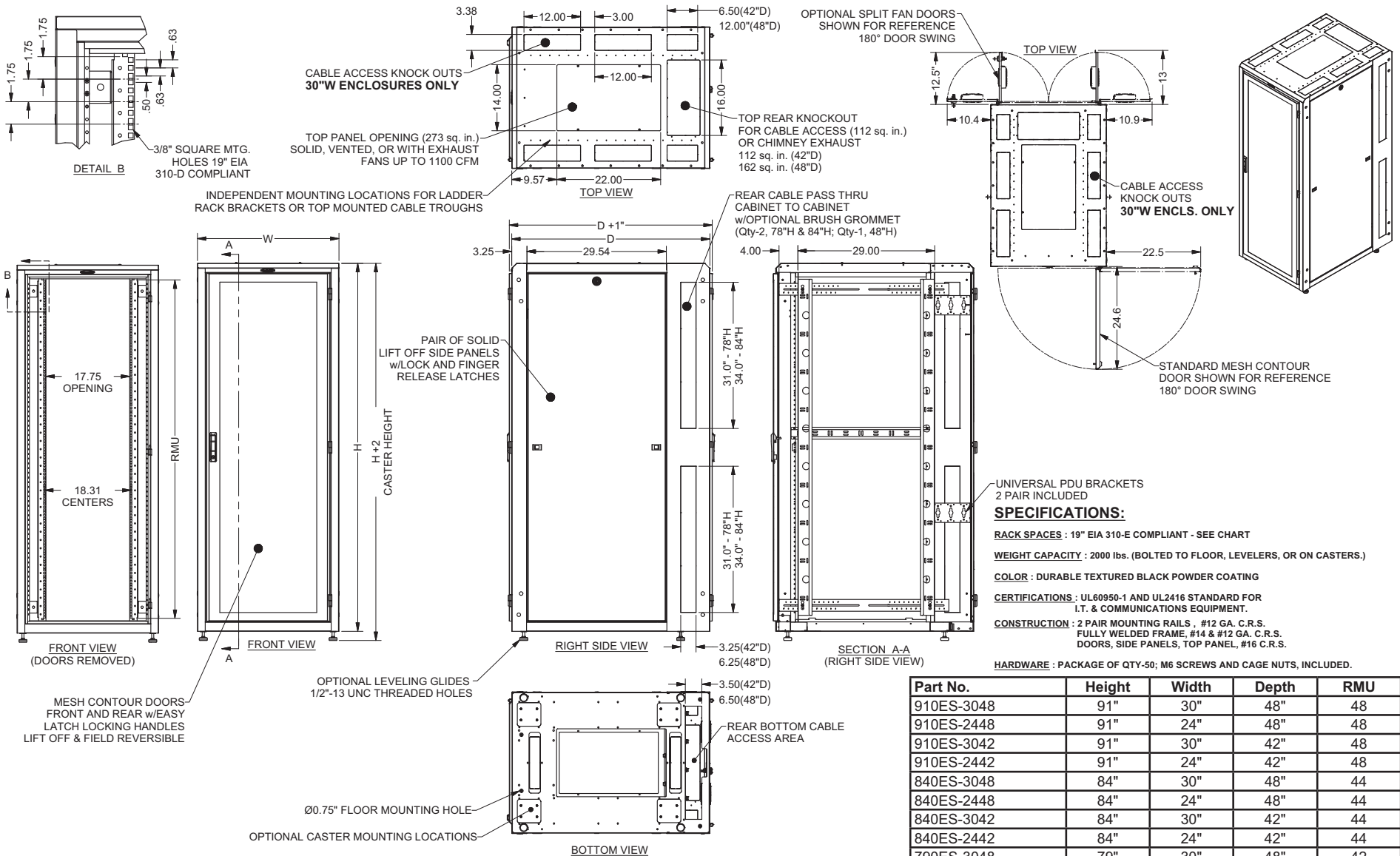
Technical drawings for Wall Mounts, Racks and most Accessories can be found on our web site, along with a number of design and engineering tools to help you find the right enclosure to meet your needs.

Those resources include:

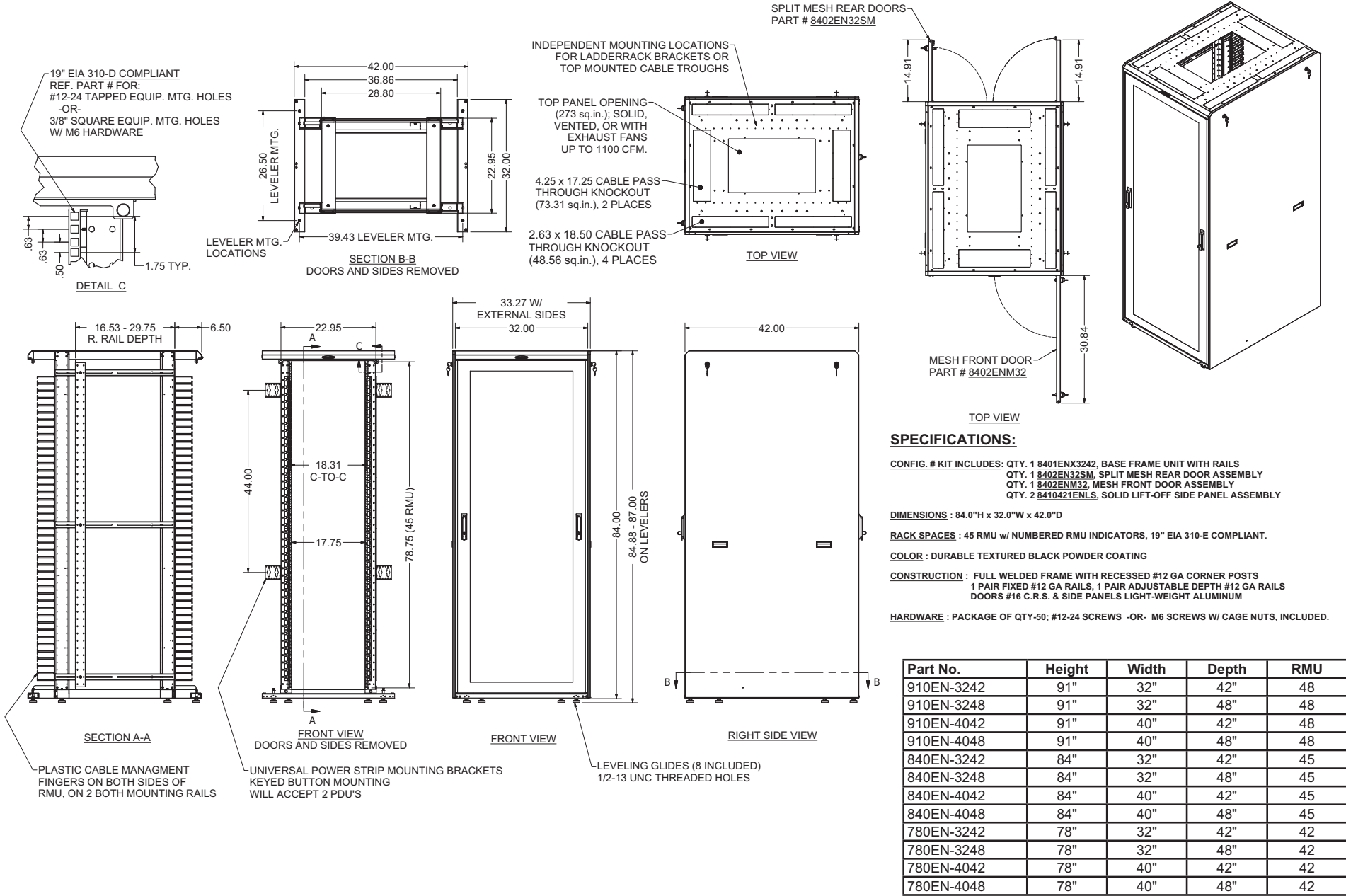
- A&E Specs
- Revit files for BIM

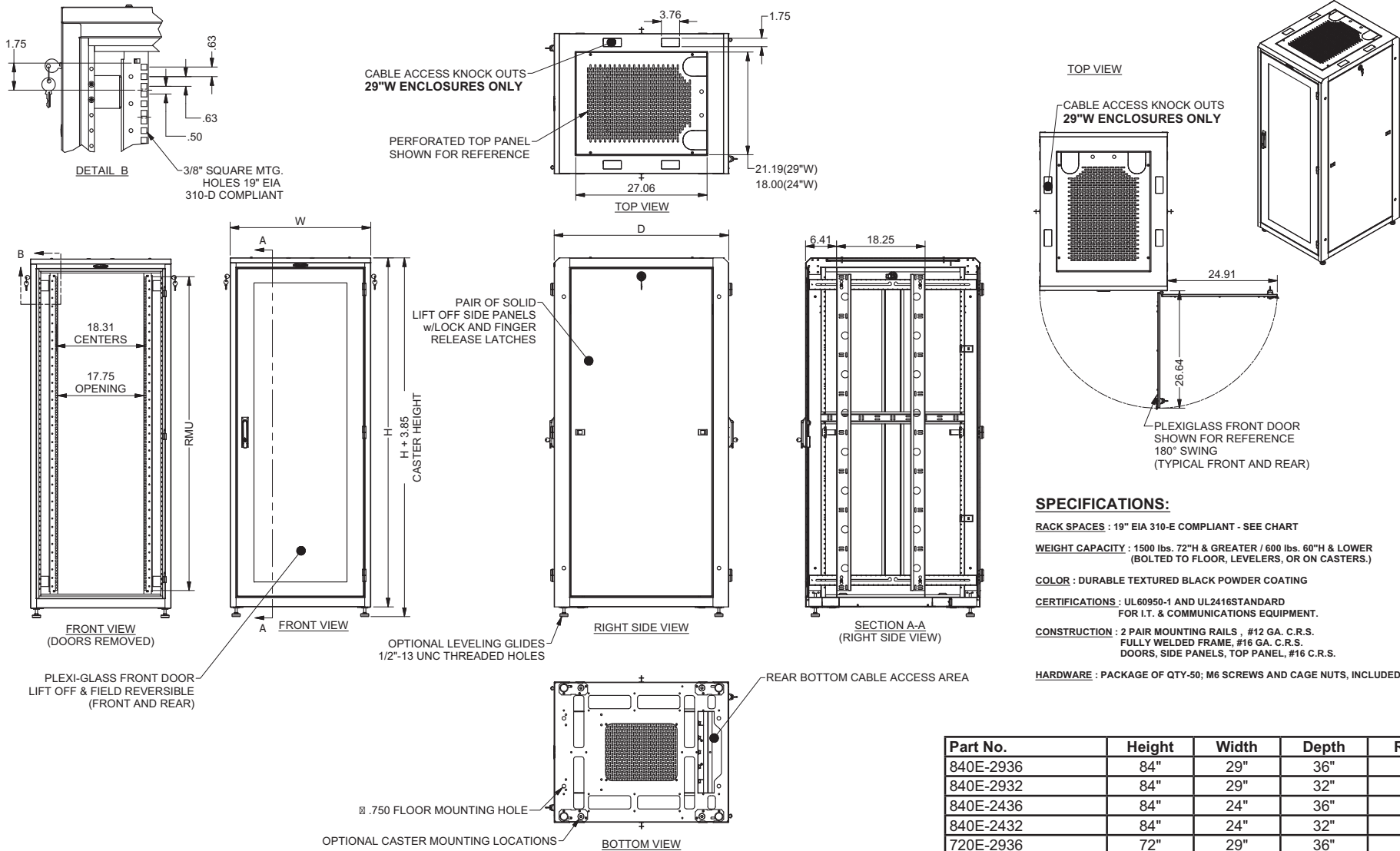
•
Visio Shapes

•
DWG, DXF, and STP Drawings



Part No.	Height	Width	Depth	RMU
910ES-3048	91"	30"	48"	48
910ES-2448	91"	24"	48"	48
910ES-3042	91"	30"	42"	48
910ES-2442	91"	24"	42"	48
840ES-3048	84"	30"	48"	44
840ES-2448	84"	24"	48"	44
840ES-3042	84"	30"	42"	44
840ES-2442	84"	24"	42"	44
790ES-3048	79"	30"	48"	42
790ES-2448	79"	24"	48"	42
790ES-3042	79"	30"	42"	42
790ES-2442	79"	24"	42"	42
480ES-2442	48"	24"	42"	24

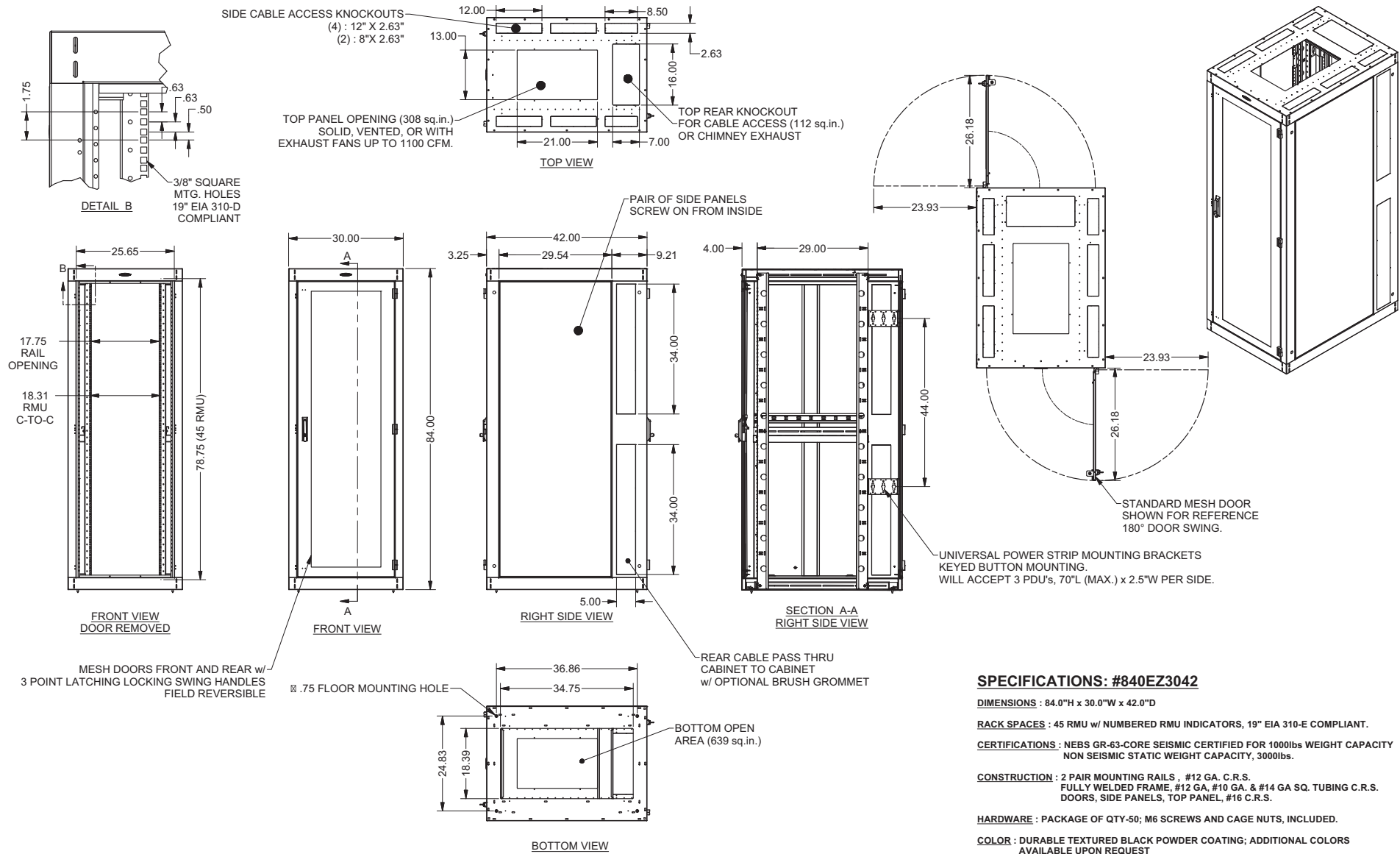




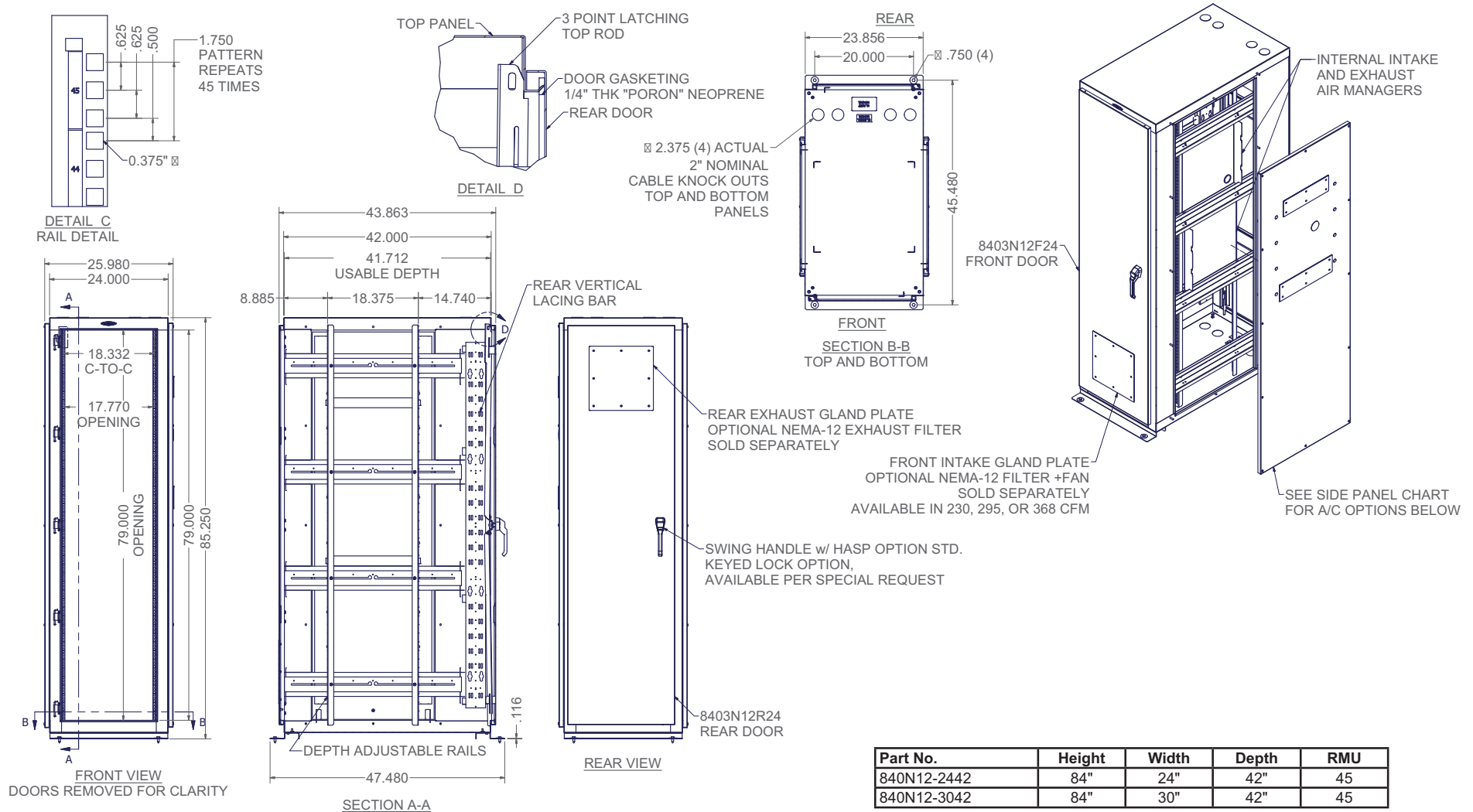
SPECIFICATIONS:

- RACK SPACES :** 19" EIA 310-E COMPLIANT - SEE CHART
- WEIGHT CAPACITY :** 1500 lbs. 72"H & GREATER / 600 lbs. 60"H & LOWER (BOLTED TO FLOOR, LEVELERS, OR ON CASTERS.)
- COLOR :** DURABLE TEXTURED BLACK POWDER COATING
- CERTIFICATIONS :** UL60950-1 AND UL2416 STANDARD FOR I.T. & COMMUNICATIONS EQUIPMENT.
- CONSTRUCTION :** 2 PAIR MOUNTING RAILS, #12 GA. C.R.S. FULLY WELDED FRAME, #18 GA. C.R.S. DOORS, SIDE PANELS, TOP PANEL, #16 C.R.S.
- HARDWARE :** PACKAGE OF QTY-50; M6 SCREWS AND CAGE NUTS, INCLUDED.

Part No.	Height	Width	Depth	RMU
840E-2936	84"	29"	36"	44
840E-2932	84"	29"	32"	44
840E-2436	84"	24"	36"	44
840E-2432	84"	24"	32"	44
720E-2936	72"	29"	36"	37
720E-2932	72"	29"	32"	37
720E-2436	72"	24"	36"	37
720E-2432	72"	24"	32"	37
600E-2432	60"	24"	32"	31
480E-2432	48"	24"	32"	24
300E-2432	30"	24"	32"	13



T NEMA 12K



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1.75-FP19	142	4804E-24	121	4PM6-32	106	7206-BT	132	7210-36ELS	125
1.75FP19BG	142	4805-E2P	130	4PM6-36	106	7206-DR	133	7215	136
1.75-FPTL19	142	4810-32ELL	125	4PSPV24-36	113	7206-EIA	132	7215-20AR	136
14.00-FP19	142	4810-32ELS	125	5.25-FP19	142	7206-FM	132	7215-20ARTLP	136
14.00-FPTL19	142	4810-36ELL	125	5.25-FPTL19	142	7206-FR-A18	132	7215-30A	136
1984ST09	132	4810-36ELS	125	6001E-2432	76	7206-FR-A28HD	132	7215-EURO	136
1984ST15	132	4P108-1224-29	107	6002E-24	120	7206-FR-A32HD	132	7215-S	136
2319	130	4P1224-24	106	6002E-M24	120	7206-FR-ADHD	132	7217-04	100
2319-F	130	4P1224-29	106	6003E-24	120	7206-FR-AHD	132	7217FT	148
2319F1.75	130	4P1224-29	107	6004E-24	121	7206-FRSLA300	133	7217FT-220	148
3.50-FP19	142	4P1224-32	106	6005-E2P	130	7206-FRSL-ADHD	133	7217FT-3	148
3.50FP19BG	142	4P1224-36	106	6010-32ELL	125	7206-FRSL-AHD	133	7217FT-3-230	148
3.50-FPTL19	142	4P36-1224-29	107	6010-32ELS	125	7206-MKM	133	7217FT-6	148
3001E-2432	80	4P48-1224-29	107	7.00-FP19	142	7206-PKB-MT	133	7217FT-6-230	148
3002E-24	120	4P60-1224-29	107	7.00-FPTL19	142	7206-SL	133	7217FT-9	148
3002E-M24	120	4P66-1224-29	107	7201E-2432	74	7208-4PHD	134	7217FT-9-230	148
3003E-24	120	4P72-1224-29	107	7201E-2436	72	7208-E	134	7217LE2	148
3004E-24	121	4P96-1224-29	107	7201E-2932	70	7208-EALL	134	7217LE3	148
3005-E2P	130	4PBK12	113	7201E-2936	68	7208-EHD	134	7217WS	100
3010-32ELL	125	4PBK16	113	7202E-24	120	7208-EN	134	7218-24	136
3010-32ELS	125	4PBK24-36	113	7202E-29	120	7208-ES	134	7219	136
4801E-2432	78	4PBSF24-36	113	7202E-M24	120	7208-WD	134	7219-20AR	136
4801ES-2442	46	4PHD29	111	7202E-M29	120	7208-WS	134	7219-20ARTLP	136
4802E-24	120	4PLRBV4-8	113	7203E-24	120	7209-4HD	134	7219-SR14	136
4802E-M24	120	4PM6-24	106	7203E-29	120	7209-HD	134	72E24EXT4	127
4802E-MC24	122	4PM6-29	106	7205-ES1P	130	7210-32ELL	125	72E29EXT4	127
4803E-24	120	4PM6-29-5FR	106	7205-ES2P	130	7210-32ELS	125	7802EN-32SM	123
4803E-SF24	122	4PM6-29-8FR	106	7206-14	132	7210-36ELL	125	7802EN-40SM	123

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7901ES-2448	40	8402E-24	120	8410-36ELL	125	ACD910ES	147	BP-EB	129
7901ES-3042	42	8402E-24PV	121	8410-36ELS	125	AK101	131	BP-EF	129
7901ES-3048	38	8402E-24PVM	121	8410-36EZS	82	AM-ES	144	BP-ES	129
7902E-24SM	122	8402E-24SM	122	84E24EXT4	127	AM-FTES24	144	BP-ES24B	129
7902E-29SM	122	8402E-29	120	84E29EXT4	127	AM-FTES30	144	BP-ES29B	129
7902E-MC24	122	8402E-29PV	121	9101ES-2442	28	AM-HFES	144	BPF24	129
7902E-MC29	122	8402E-29PVM	121	9101ES-2448	24	AM-HFFTES24	144	BPF29	129
7903E-24	120	8402E-29SM	122	9101ES-3042	26	AM-HFFTES30	144	BPS24	129
7903E-29	120	8402E-M24	120	9101ES-3048	22	BGRK24	144	BPS29	129
7903E-SF24	122	8402E-M29	120	9102E-24SM	122	BGRK30	144	BPSES2442	127
7903E-SF29	122	8402E-MC24	122	9102E-29SM	122	BGRK-32EN	144	BPSES2448	127
7903E-SS24	123	8402E-MC29	122	9102E-MC24	122	BGRK-40EN	144	BPSES3042	127
7903E-SS29	123	8402EN-32SM	123	9102E-MC29	122	BGRK91-24	144	BPSES3048	127
7905-ES1P	130	8402EN-40SM	123	9102EN-32SM	123	BGRK91-30	144	BS2-CPUBKT	100
7905-ES2P	130	8402EN-M32	123	9102EN-40SM	123	BGRK91-32EN	144	CBB-19	135
7910-36ELL	125	8402EZ-M30	82	9102EN-M32	123	BGRK91-40EN	144	CBB-30	135
7910-36ELS	125	8403E-24	120	9103E-24	120	BGS-79	145	CBB-48	135
8.75-FP19	142	8403E-29	120	9103E-29	120	BGS-84	145	CBB-60	135
8.75-FPTL19	142	8403E-SF24	122	9103E-SF24	122	BGS-84-48	145	CBB-72	135
8401E-2432	66	8403E-SF29	122	9103E-SF29	122	BGS-91	145	CBB-78	135
8401E-2436	64	8403E-SS24	123	9103E-SS24	123	BGS-91-48	145	CH-02	124
8401E-2932	62	8403E-SS29	123	9103E-SS29	123	BGT	145	CH-03	124
8401E-2936	60	8404E-24	121	9105-ES1P	130	BPB24	129	CH-04	124
8401ES-2442	36	8404E-29	121	9105-ES2P	130	BPB29	129	CM-01	154
8401ES-2448	32	8405-ES1P	130	9110-36ELL	125	BPBES2442	127	CM-03	150
8401ES-3042	34	8405-ES2P	130	9110-36ELS	125	BPBES2448	127	CM-04	151

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CM-05	155	ECDHF48	143	FTC103	148	GL24WS-MS	93	GL36WS-SV	93
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CM-07	151	ENSAB11	146	G101EN	131	GL24WS-PS	93	GL480E-2432F	78
CM-08	151	ENSAB14	146	G101EN2ES	131	GL24WS-PV	93	GL480E-2432F10	78
CM-09	151	ENSAB14A	146	G101ES	131	GL24WS-SS	93	GL480E-2432P	78
CM-10	150	ENSAB14D	146	GL10000V*	85	GL24WS-SV	93	GL480E-2432S	78
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CM-15	151	ES23K-42	130	GL14000V*	85	GL300E-2432P	80	GL48SR	99
CM-16	151	ESC-K12	153	GL15WM	95	GL300E-2432S	80	GL48SRD	99
CM-17	151	ESF24-29	113	GL15WMS	95	GL3500V*	85	GL48WD	94
CM-19	150	ESSAB11	146	GL17000V*	85	GL360N12	98	GL48WDM	94
CM-23	152	ESSAB14	146	GL20000V*	85	GL360N12A	98	GL48WDS	94
CM-24	152	ESSAB14D	146	GL240N12	98	GL36SR	99	GL48WLP	96
CM-26	155	ESSAB19	146	GL240N12A	98	GL36SRD	99	GL48WM	92
CM-425	150	FFK1	100	GL2418WM	92	GL36WD	94	GL48WMM	92
CM-44	150	FFK2	128	GL2418WMM	92	GL36WDM	94	GL48WMS	92
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*Products marked with an asterisk are not manufactured by Great Lakes Case & Cabinet Co. Inc. Please see page 154 for third party warranty information.

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GL720E-2936S	68	GL840E-2432P	66	GL840ENT-4048SSS-NS	55	GL84CL2MM	86	GLAL10127CP*	141
GL780ENT-3242-FK	56	GL840E-2432S	66	GL840ES-2442MS	36	GL84CL2PF	86	GLAL10160-24*	140
GL780ENT-3242MSS	56	GL840E-2436F	64	GL840ES-2442MSFS	36	GL84CL3MM	87	GLAL10160-30*	140
GL780ENT-3242MSS-NS	56	GL840E-2436MCP	64	GL840ES-2442MSS	36	GL84CL3PF	87	GLAL10160-31.5*	140
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GLKL20100CP*	139	GLRR-1984BA-5FO	104	LRB-24A1	152	TPE-24F	128	TPES-P	126

*Products marked with an asterisk are not manufactured by Great Lakes Case & Cabinet Co. Inc. Please see page 154 for third party warranty information.

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The advertisement features a white Great Lakes Case & Cabinet truck parked in front of a building. The truck's side panel displays the company logo and the slogan "Invest in Solid Engineering". To the right, a white sedan is elevated on a car lift. A large, colorful "NEW!" graphic is positioned in the upper left corner of the image.

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