

GREAT LAKES CASE & CABINET



'14

Invest in Solid Engineering

SOLUTIONS
FROM THE
GROUND
UP

PRODUCT CATALOG '14



WeRackYourWorld.com



Data Centers from the Ground, Up

Solar VPS (a hosting company headquartered in Clifton, NJ) and its mascot Cosmo provides custom cloud solutions to more than 10,000 clients. In 2012, Solar VPS made the strategic decision to move its NJ data center to a Digital Realty Trust (NYSE: DLR) facility. In preparing for this move, Solar had to take into account how DLR building codes would affect the infrastructure of power, cooling, and cable management within the data center. Enclosures in the data center not only had to accommodate as many RMUs as possible, but the new facility also needed to reflect the unique corporate culture of Solar VPS.

Together, Solar VPS and Great Lakes decided that blue ES Enclosures would outfit most of the data center. The 90"H x 24"W x 42"D, 48 RMU custom height enclosures feature a large open bottom to facilitate under floor power supplies; space in the rear of the enclosure is dedicated to PDU installation based on custom specifications. Universal mounting rails are able to support a variety of equipment, ranging from Juniper networking gear to SuperMicro, Dell and HP Servers. A hot aisle/cold aisle configuration cools the data center; contour mesh doors allow the maximum amount of cool air into the enclosure. Enclosures specifically designed for high density cloud applications also include orange 12"W x 90"H side cars. To accommodate overhead cable management, low profile brackets were designed that stayed within DLR's height restrictions. Brackets, once installed, will support fiber and copper drops to all enclosures.

Several of Solar's clients require only a few RMU of mounting space; Great Lakes standard 2 co-lo enclosure and custom 4 co-lo enclosures allow these customers to use only the space they need. All front and rears doors of ES and co-lo enclosures feature a combination and key handle for secure customer access to each enclosure.

To learn more about the Solar VPS data center, please visit werackyourworld.com/resources

To learn about Solar VPS and its cloud solutions, please visit solarvps.com



TABLE OF CONTENTS BY APPLICATION

DATA CENTER NETWORKING

• GL910ES-3048	22
• GL910ES-3042	26
• GL840ES-3048	30
• GL840ES-3042	34
• GL780ES-3048	38
• GL780ES-3042	42
• GL910EN-32	52
• GL910EN-40	53
• GL840EN-32	54
• GL840EN-40	55
• GL780EN-32	56
• GL780EN-40	57
• GL840E-2936	60
• GL840E-2932	62
• GL720E-2936	68
• GL720E-2932	70

DATA CENTER SERVERS

• GL910ES-2448	24
• GL910ES-2442	28
• GL840ES-2448	32
• GL840ES-2442	36
• GL780ES-2448	40
• GL780ES-2442	44
• GL480ES-2442	46
• GL840E-2436	64
• GL840E-2432	66
• GL720E-2436	72
• GL720E-2432	74
• WE WALL MOUNT	96

COLO ENCLOSURES

• 3 COLO ENCLOSURE	82
• 2 COLO ENCLOSURE	83

SEISMIC ENCLOSURES

• SEISMIC ENCLOSURE	84
• SEISMIC ANCHOR KIT	127

NEMA 12K ENCLOSURES/WALL MOUNTS

• NEMA 12K ENCLOSURES	86
• NEMA 12K WALL MOUNT	97

SMALL OFFICE/HOME OFFICE ENCLOSURES

• GL600E-2432	76
• GL480E-2432	78
• GL300E-2432	80

NETWORKING FOR SMALL APPLICATIONS

• WM SERIES	92
• WS SERIES	93
• WD SERIES	94
• 15 WM SERIES	95
• WR SERIES	96
• SWING RACKS: SR AND SRD SERIES	98
• WALL MOUNT RACK & TILT PANEL MOUNT	99
• OTHER WALL MOUNTS & ACCESSORIES	100

AV APPLICATIONS

• 15 WM SERIES	95
• WR SERIES	96
• SWING RACKS: SR AND SRD SERIES	98
• WALL MOUNT RACK & TILT PANEL MOUNT	99
• OTHER WALL MOUNTS & ACCESSORIES	100

*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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TABLE OF CONTENTS BY PRODUCT SERIES

D	DATA CENTER SOLUTIONS.....	PAGES 5-16	E	E SERIES AND SPECIALTY ENCLOSURES	PAGES 58-88
ES	ES SERVER ENCLOSURES.....	PAGES 22-47		• GL720E-2432.....	74
	• GL910ES-3048	22		• GL600E-2432.....	76
	• GL910ES-2448	24		• GL480E-2432.....	78
	• GL910ES-3042	26		• GL300E-2432.....	80
	• GL910ES-2442	28		• COLO ENCLOSURES	82
	• GL840ES-3048	30		• SEISMIC ENCLOSURE.....	84
	• GL840ES-2448	32		• NEMA 12K ENCLOSURE.....	86
	• GL840ES-2448	32	W	WALL MOUNTS	PAGES 89-102
	• GL840ES-3042	34		• WM SERIES	92
	• GL840ES-2442	36		• WS SERIES	93
	• GL780ES-3048	38		• WD SERIES.....	94
	• GL780ES-2448	40		• 15 WM SERIES	95
	• GL780ES-3042	42		• WE & WR SERIES	96
	• GL780ES-2442	44		• NEMA 12K.....	97
	• GL480ES-2442	46		• SWING RACKS: SR AND SRD SERIES.....	98
EN	EN ENCLOSURES	PAGES 48-57		• WALL MOUNT RACK & TILT PANEL MOUNT.....	99
	• GL910EN-32	52		• OTHER WALL MOUNTS & ACCESSORIES	100
	• GL910EN-40	53	R	RACKS	PAGES 103-114
	• GL840EN-32	54		• TWO POST RACKS	106
	• GL840EN-40	55		• FOUR POST RACKS.....	108
	• GL780EN-32	56		• CABLE MANAGEMENT RACKS.....	110
	• GL780EN-40	57		• HEAVY DUTY FOUR POST RACKS	111
E	E SERIES AND SPECIALTY ENCLOSURES	PAGES 58-88		• ENHANCED RACKS (VARIABLE DEPTH).....	112
	• GL840E-2936.....	60		• RACK ACCESSORIES	114
	• GL840E-2932.....	62	A	ACCESSORIES.....	PAGES 115-152
	• GL840E-2436.....	64	P	POLICIES	PAGES 153-156
	• GL840E-2432.....	66	T	TECHNICAL DRAWINGS.....	PAGES 157-167
	• GL720E-2936.....	68			
	• GL720E-2932.....	70			
	• GL720E-2436.....	72			



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DATA CENTER SOLUTIONS

No two data centers are the same. At Great Lakes, our goal is to provide you with the data center solution you want and the right solution for your specific needs. Based on your cooling resources, power availability, and infrastructure, we will work with you to develop the best and most cost-effective solution. On the following pages, you will find examples of some of the solutions and products that we have recently provided to customers, including:

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

D DATA CENTER SOLUTIONS



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 “brownfield” 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.

"FUTURE-PROOFING" D



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

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

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

Please note, the Closed-Loop Water-Cooled Fan Door (6) and front door (19), and heat exchanger (13) can only be used together. These doors can not be used with other Great Lakes doors.

D CLOSED-LOOP WATER-COOLED ENCLOSURE

CLOSED-LOOP WATER-COOLED ENCLOSURE

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

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

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

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

GL840ES-3048CLWCE SPECIFICATIONS

DIMENSIONS

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

STRUCTURAL

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

FRONT DOOR

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

REAR DOOR

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

TOP PANEL

- Standard top with brush cable entries

SIDE PANEL

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

COOLING COMPONENTS

REAR-MOUNTED FAN TRAYS

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

HEAT EXCHANGER

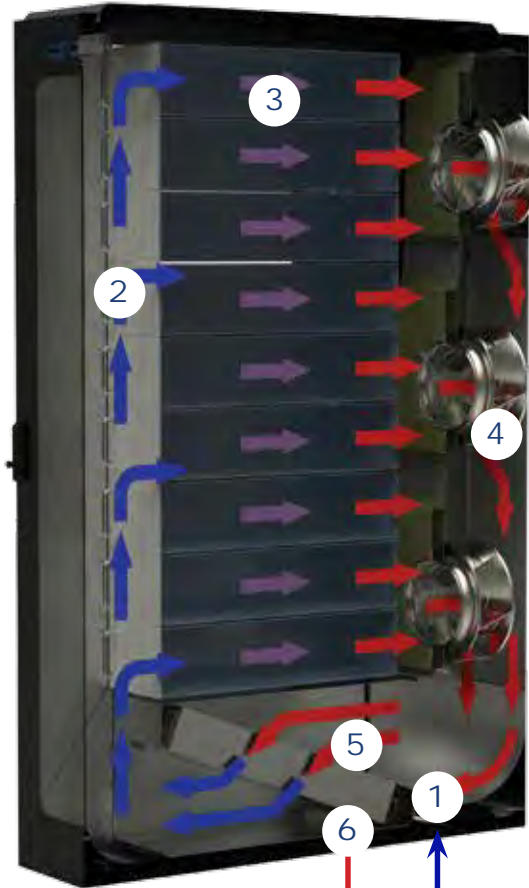
- 8-16 gpm heat-exchange cooling core supplied with ¾" high-pressure hose and optional ¾" flange NFP connections

REAL TIME MONITORING AND ALERTS

- Live data reporting the status of power, environmental and security systems available, with alerts, both on-board and remotely, via e-mail, SNMP or text message

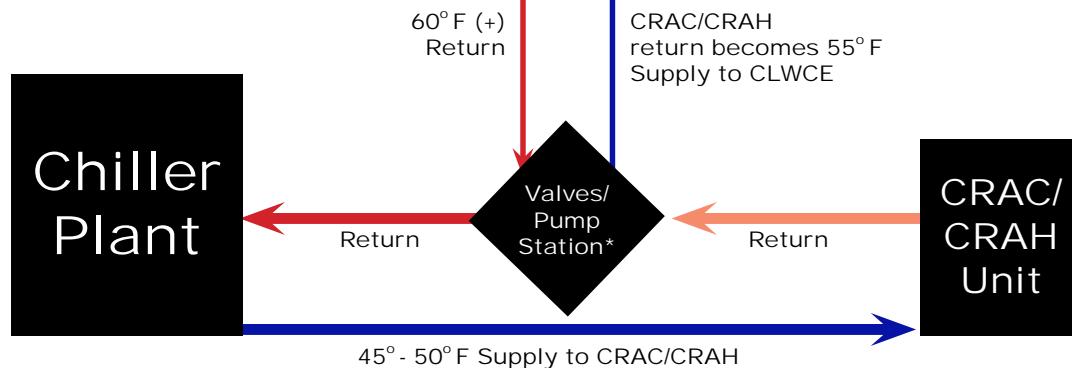


CLOSED-LOOP WATER-COOLED ENCLOSURE D



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

The Closed-Loop Water-Cooled Enclosure improves PUE (power usage effectiveness) by cooling the equipment, not the room, while significantly reducing data center cooling costs. At 30kW, the CLWCE accommodates higher concentrations of servers and active computing equipment in a single enclosure, requiring much less floor space (in excess of 50%) than traditional plenum cooling.



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

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

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

D LOCALIZED CONTAINMENT



This customer is utilizing Great Lakes' Air Manager and Exhaust Chimney as a "localized containment" solution in their data center.

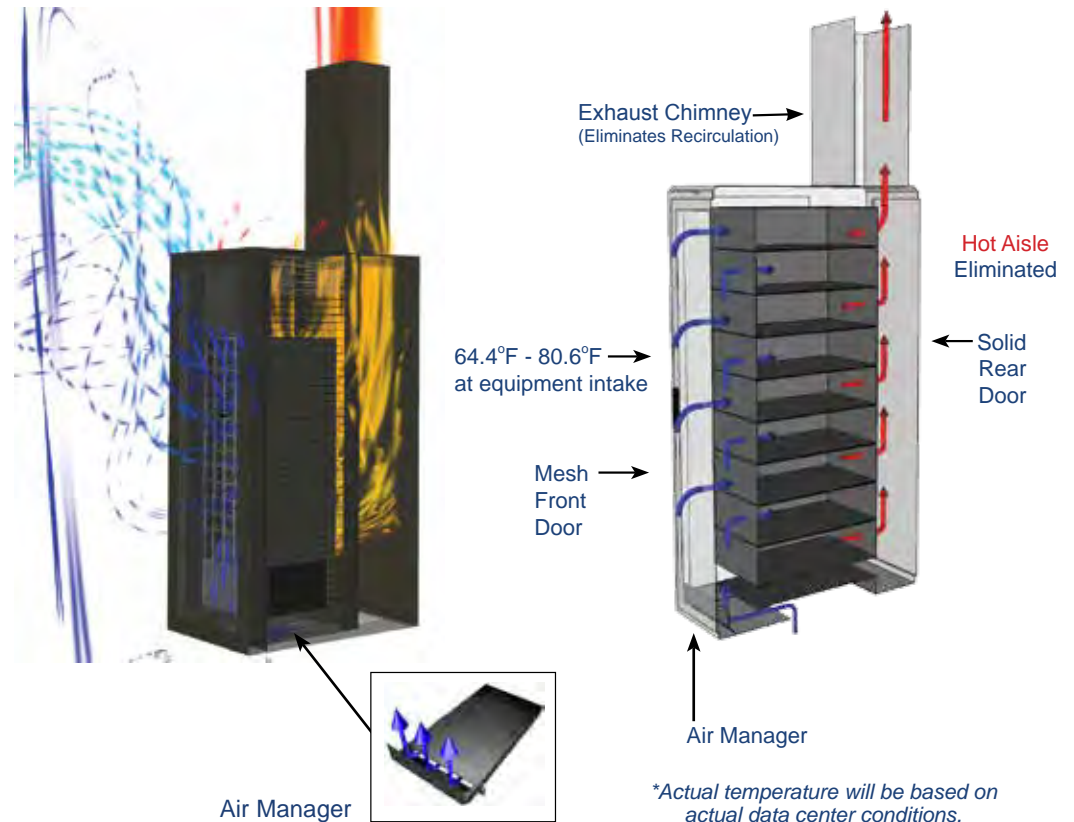
LOCALIZED CONTAINMENT

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.





LOCALIZED CONTAINMENT DOOR

Increased equipment densities and diversity in the design of equipment mounted in today's enclosures often require new and innovative responses from enclosure manufacturers. As part of Great Lakes commitment to "Future-Proofing" in our ES Server Enclosures, we have introduced a number of new accessories which expand our portfolio of Localized Containment Options.

Great Lakes [Localized Containment Door \(LCD\)](#) is designed to maximize the delivery of conditioned air from the air manager inside the front of the enclosure. The LCD utilizes a proprietary directional damper which is attached to the door to ensure that air manager airflow into the front of the enclosure does not bypass any equipment which may be mounted in the lower portion of the enclosure. An adjustable plexiglas panel helps to contain the conditioned air delivered within the front of the enclosure while still allowing access to the ambient conditions in the data center space should a system failure occur to the air manager or the data center HVAC system.



SIDE AIRFLOW AIR MANAGER

In response to a need for the support of switches or side airflow equipment in a localized containment configuration, Great Lakes has developed a [Side Airflow Air Manager \(SAFM\)](#). Like our traditional air manager, this product channels airflow from under the raised floor inside the front of the enclosure and to the front of rack mounted equipment. The difference is the Side Airflow Air Manager directs that conditioned air to the right of the front rail and into the intake side of the rack mounted side airflow equipment. The Side Airflow Air Manager is adjustable to vary the amount of airflow directed to the side and can split the flow between the front and the side, based on the configuration of equipment mounted in the enclosure, the amount of available airflow and the static pressure underneath the raised floor.



CFD MODEL LOCALIZED CONTAINMENT

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

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

D CONTAINMENT STRATEGIES



COLD AISLE CONTAINMENT

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

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

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



HOT AISLE CONTAINMENT

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

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

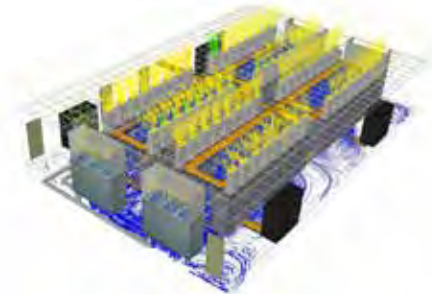
Every data center space is different and many data center managers have their own ideas as to what solution will work best for them. Great Lakes has the technology and flexibility to make any planned solution a data center reality. Our engineering team uses more than 25 years of experience to help you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

CONTAINMENT STRATEGIES D

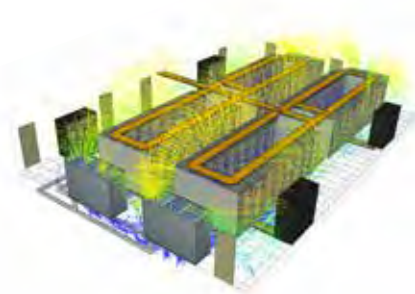
In addition to "end of aisle" containment doors which attach easily to existing enclosures, there are a number of containment products which can be deployed in a variety of strategies, either across or above the aisle.

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

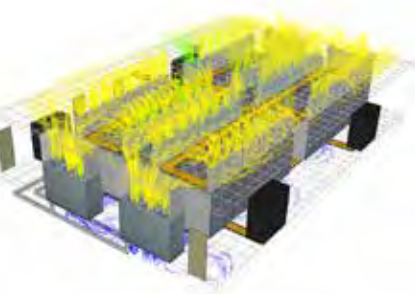
It is important to be familiar (and compliant) with the building and fire code standards in your municipality before closing off a grouping of enclosures, either for hot or cold aisle containment.



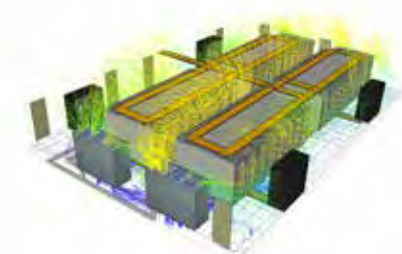
Localized Containment With Air Managers and Chimneys



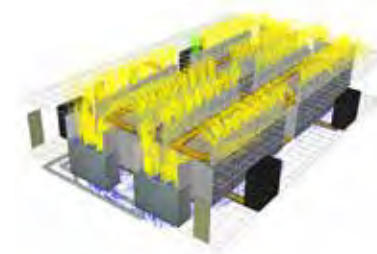
Standard Cold Aisle Containment



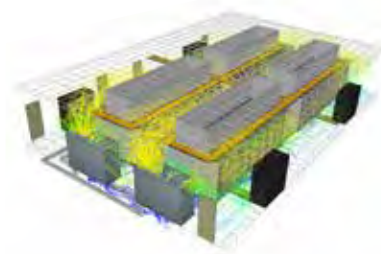
Standard Cold Aisle Containment with Chimney



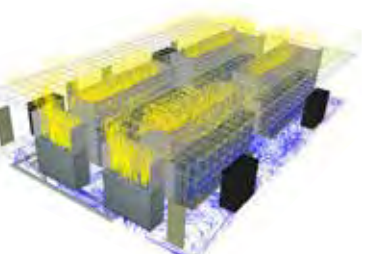
Cold Aisle Containment with Horizontal Polargy Panels



Cold Aisle Containment with Horizontal Polargy Panels & Chimneys



Cold Aisle Containment with Vertical Polargy Panels



Hot Aisle Containment with Vertical Polargy Panels

D DATA CENTER SOLUTIONS



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

Large amounts of open area outside of the rails, repositionable sections of plastic cable fingers and strategically positioned knockouts can easily accommodate the needs of switches and patch panels. Additional cable and cooling accessories for the EN series can improve cable pathways and enhance equipment airflow. (See page 48)



DATA AIRE INC. The Data Aire gForce IR 24" GICW-060* is shown with two, GL780ES-3042 enclosures

Great Lakes is pleased to offer the **gForce IR**, in-row cooling solution, by Data Aire. For more than 40 years, Data Aire has been a leading provider of precision air conditioning equipment for data processing centers. The gForce IR utilizes the coanda effect in close-coupled cooling, to deliver air precisely where it needs to be. Unlike many other in-row offerings, the gForce IR can handle humidity control issues within the unit itself, eliminating the need for the addition of traditional CRAC units in the data center space. The 24" unit offers 60kW in chilled water or DX versions and the 12" unit offers 30kW via chilled water. It is also available in the air cooled or water/glycol cooled DX versions. For more information, contact your Great Lakes representative or visit werackyourworld.com/gforceir.

DATA CENTER ACCESSORIES D



EXHAUST CHIMNEY

Heated exhaust can be easily removed from the enclosure via an Exhaust Chimney (GL-EC) that channels the natural upward movement of hot air. Standard metal, flexible duct chimneys (pictured) and custom versions are available to meet specific height or infrastructure requirements.

Found on page 138

CHIMNEY FAN TRAY

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

Found on page 138



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 as part of a "home run" networking solution.

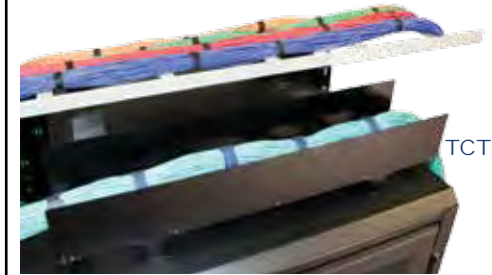
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LADDER RACK BRACKETS

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

Found on page 148



TOP CABLE TROUGH

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

Found on page 148



BRUSH GROMMET KIT

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

Found on page 139



DIGITUS BIOMETRICS HANDLE SYSTEMS

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

Found on page 120



GREAT LAKES VARIABLE SPEED FAN CONTROLLER

The Variable Speed Fan Controller (FTC103) is able to throttle fans to a speed as low as 60% and up to 100%, based on temperatures within the enclosure.

Found on page 142

SOMETIMES YOU NEED TO BE JUST A
Little bit different!



WITH GREAT LAKES, YOU NEVER HAVE TO FEEL “CHAINED” TO STANDARD PRODUCT CONFIGURATIONS OR COLORS. FROM A SMALL MODIFICATION TO AN EXISTING PRODUCT, A SIMPLE COLOR CHANGE, OR SOMETHING COMPLEX AND INTRICATE, GREAT LAKES IS ABLE TO HELP. WE CAN ENGINEER AND MANUFACTURE YOUR DESIGN CHANGES, WHILE PROVIDING A FASTER TURN-AROUND THAN MOST OTHERS IN THE INDUSTRY. FOR MORE DETAILS, TALK TO YOUR REGIONAL GREAT LAKES SALES REP, OR CALL 1.866.TRY. GLCC

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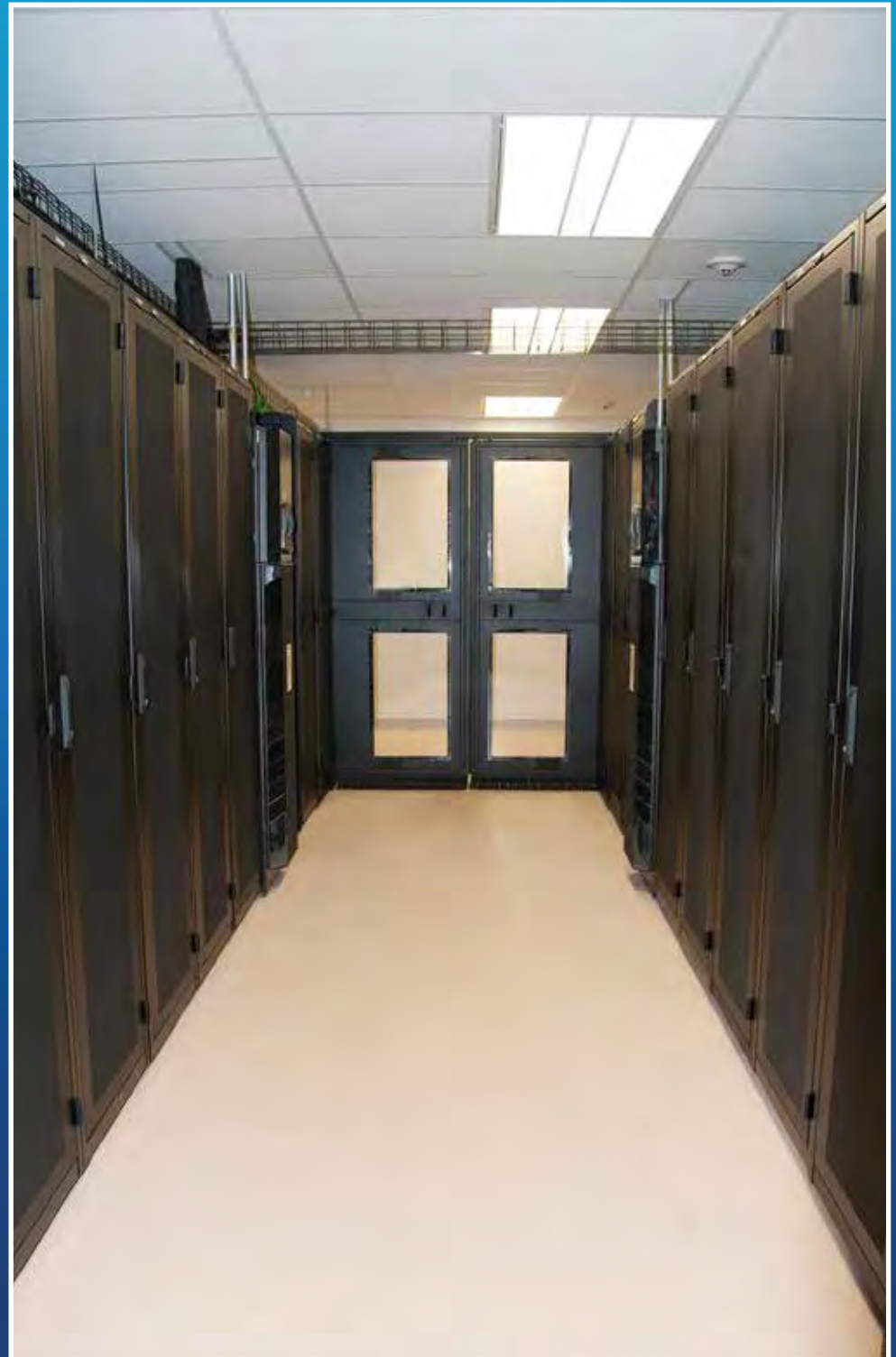


ENCLOSURES

es • en • e • co-lo • ez • nema

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

- The ES Series is ideal for data centers that require cooling, power, and cable management solutions.
- The EN is a specific platform for switch and large cable applications.
- The E Series protects and stores computer, telecommunications, and other electronic equipment.
- The CO-LO Series (available in configurations 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

*weRack
your
World!*



	ES SERVER ENCLOSURES	ENHANCED NETWORKING (EN) ENCLOSURES	E SERIES ENCLOSURES	SEISMIC ENCLOSURE	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 78"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	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	35"D = 34" usable depth 32"D = 30" usable depth	38"
MAX. RAIL PLACEMENT	35"	29.75"	30", 34"	35"	33"
EIA 310-E 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	SEISMIC 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	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 	<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 for industrial environment Two pair of PDU mounting brackets are standard 	<ul style="list-style-type: none"> Durable powder coat finish for industrial environment 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 for industrial environment 16 position powerstrip standard with 72" and taller enclosures (smaller powerstrip 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 for industrial environment 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>Note: 91"H enclosures are not OSHPD approved.</p>				

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



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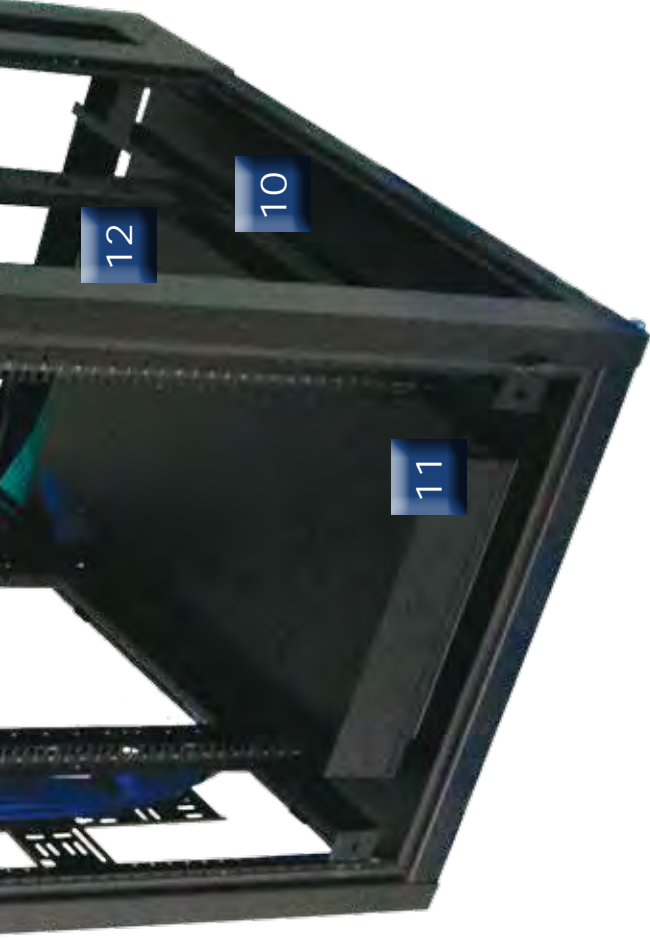
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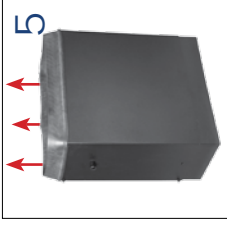
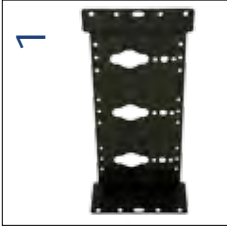
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ES ENCLOSURE FEATURES & ACCESSORIES



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

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

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

ES 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: 2000 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-N	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.

Shown with optional accessories,
drawings can be found on page 158

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 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

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
VLB-9136	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

SHELVES FOR 19" MOUNTING

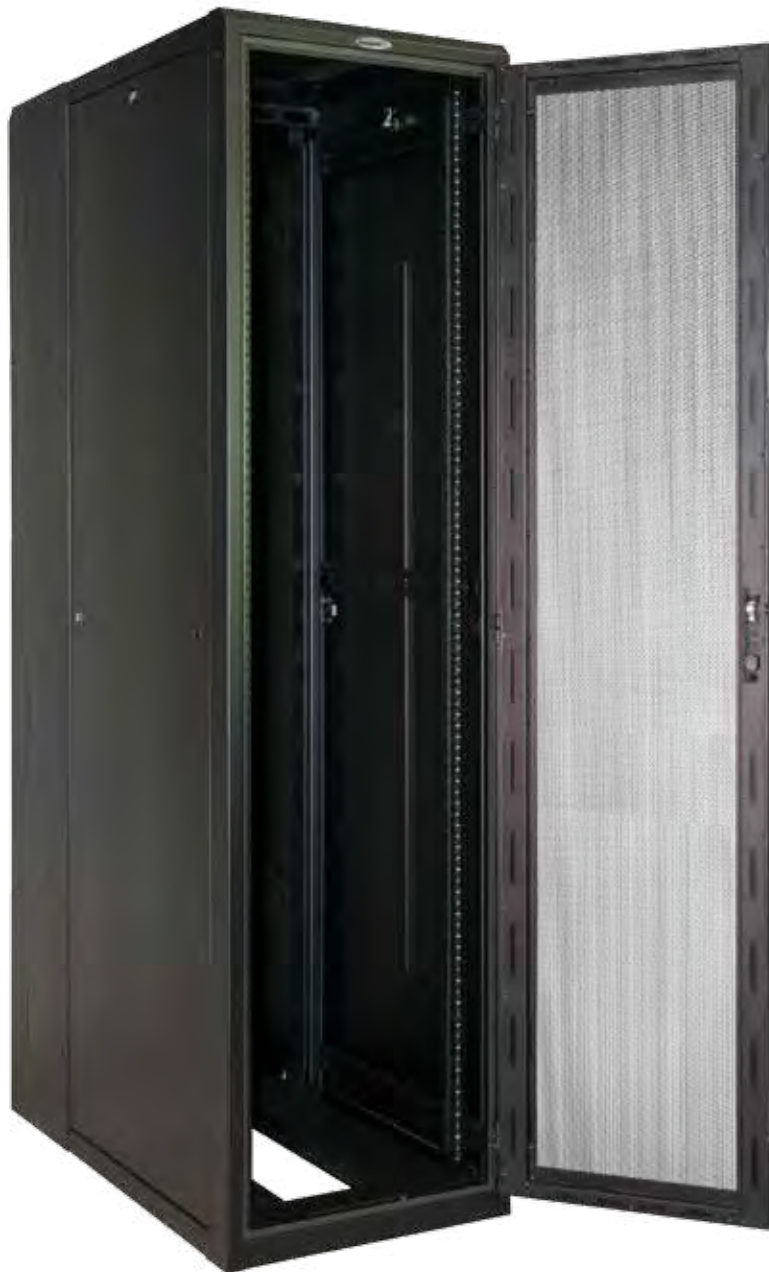
7206-FR-A32HD	Stationary Shelf, Front/Rear Mount adjustable, 17.50"W x 32"D, 300 lb. weight capacity
7206-FRSL-ADHD	Sliding Shelf, Front/Rear Mount adjustable, 17.5"W x 26"D, 100 lb. weight capacity
7206-FRSLA300	Sliding Shelf, Front/Rear Mount adjustable, 14.33"W x 30"D, 300 lb. weight capacity
7206-MKM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

Additional Shelves, pages 128-129

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-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.

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

GL910ES-2448MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
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-N	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

Please call for availability.

Shown with optional accessories,
drawings can be found on page 158

GL910ES-2448 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 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

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
VLB-9136	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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: 2000 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-N	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.

Shown with optional accessories,
drawings can be found on page 158



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 116-119

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 Universal plastic Filler Panels, 1 RMU
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
GL-EC-42-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES30	Air Manager Fan Tray, 600 CFM
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 135-142

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 132-134

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
VLB-9136	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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-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.

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

Please call for availability.

Shown with optional accessories,
drawings can be found on page 158

GL910ES-2442 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 116-119

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 Universal plastic Filler Panels, 1 RMU
7217LE2	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
GL-EC-42-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-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 135-142

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 132-134

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
VLB-9136	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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: 2000 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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC29	Front Contour Mesh Door with locking handle
8402E-MC29	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-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 116-119

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 7217LE3	Pack of 10 Universal plastic Filler Panels, 1 RMU 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 135-142

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 132-134

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
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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-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.

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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC24	Front Contour Mesh Door with locking handle
8402E-MC24	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-2448MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-2448MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door



Shown with optional accessories,
drawings can be found on page 158

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 116-119

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

Additional Cooling Equipment, pages 135-142

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 132-134

CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

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: 2000 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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC29	Front Contour Mesh Door with locking handle
8402E-MC29	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-3042MSS Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door



Shown with optional accessories,
drawings can be found on page 158

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 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

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
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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.

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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
8402E-MC24	Front Contour Mesh Door with locking handle
8402E-MC24	Rear Contour Mesh Door with locking handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL840ES-2442MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL840ES-2442MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

GL840ES-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 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

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
VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

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 GL780ES-3048 SERIES



DIMENSIONS: 78"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: 2000 lbs.

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

**GL780ES-3048MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
7801ES-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC29	Front Contour Mesh Door with locking handle
7802E-MC29	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL780ES-3048MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL780ES-3048MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Please call for availability.



Shown with optional accessories,
drawings can be found on page 158

GL780ES-3048 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

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

Additional Doors, pages 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

CABLE MANAGEMENT

BGS-78	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-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-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 GL780ES-2448 SERIES



DIMENSIONS: 78"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.

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

GL780ES-2448MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
7801ES-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC24	Front Contour Mesh Door with locking handle
7802E-MC24	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

GL780ES-2448MSS	Complete enclosure with Contour Mesh Front Door and Split Mesh Rear Door
GL780ES-2448MSFS	Complete enclosure with Contour Mesh Front Door and Split Fan Rear Door

Please call for availability.

Shown with optional accessories,
drawings can be found on page 158

GL780ES-2448 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

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

Additional Doors, pages 116-119

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 Universal plastic Filler Panels, 1 RMU
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 135-142

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 132-134

CABLE MANAGEMENT

BGS-78	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-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-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 GL780ES-3042 SERIES



DIMENSIONS: 78"H x 30"W x 42"D
Maximum rail placement: 35"; Usable inside depth: 40"
9" of dedicated cable management/PDU depth in rear

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

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.

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

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

PART NO.	DESCRIPTION
7801ES-3042	Frame with two pairs of black powder coated, universal 19", 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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC29	Front Contour Mesh Door with locking handle
7802E-MC29	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

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

GL780ES-3042 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

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

Additional Doors, pages 116-119

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 Universal plastic Filler Panels, 1 RMU
7217LE3	Fan Assembly with fan guards and three, 75 CFM fans; to mount on contour mesh door
GL-EC-42-1832	Exhaust Chimney for 48"D enclosure with an adjustable range of 18" to 32"
GL-EC-42-3246	Exhaust Chimney for 48"D enclosure with an adjustable range of 32" to 46"
GL-ECFT42	Optional Fan Tray for exhaust chimney, 1200 CFM
AM-ES	Air Manager Assembly
AM-FTES30	Air Manager Fan Tray, 600 CFM
BGRK30	Brush Grommet Kit, to mount to enclosure rails to prevent air recirculation
ESSAB11	Side Air Baffle Kit for use with 11 RMU CISCO and other side-to-side airflow equipment; please see chart on page 51 to ensure baffle kit and equipment are compatible

Additional Cooling Equipment, pages 135-142

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 132-134

CABLE MANAGEMENT

BGS-78	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-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-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 GL780ES-2442 SERIES



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

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

STOCK COLORS: Black or Advantage White

RAILS RATED AT: 2000 lbs.

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

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

PART NO.	DESCRIPTION
7801ES-2442	Frame with two pairs of black powder coated, universal 19", 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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
7802E-MC24	Front Contour Mesh Door with locking handle
7802E-MC24	Rear Contour Mesh Door with locking handle
7810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

ADDITIONAL CONFIGURATIONS

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



Shown with optional accessories,
drawings can be found on page 158

GL780ES-2442 ACCESSORIES ES

PART NO. DESCRIPTION

DOORS & SIDE PANELS

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

Additional Doors, pages 116-119

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 Universal plastic Filler Panels, 1 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on 24"W contour mesh door
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 135-142

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 132-134

CABLE MANAGEMENT

BGS-78	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-78	Vertical Cable Trough
VCT-78C	Cover for VCT-78
VLB-7836	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)

Additional Cable Management, pages 143-151

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 128-129

MOUNTING RAILS, CASTERS & OTHER ACCESSORIES

7805-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.

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

**GL480ES-2442MS COMPLETE ENCLOSURE
INCLUDES PARTS BELOW**

PART NO.	DESCRIPTION
4801ES-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPES-S	Solid Top Panel
4802E-MC24	Front Contour Mesh Door with locking handle
4802E-MC24	Rear Contour Mesh Door with locking handle
4810-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches

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 116-119

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 Universal plastic Filler Panels, 1 RMU
7217FT-3	Fan Tray (front/rear mount adjustable) with fan guards and three 75 CFM fans, 2 RMU
7217LE2	Fan Assembly with fan guards and two, 75 CFM fans; to mount on 24"W contour mesh door

Additional Cooling Equipment, pages 135-142

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 132-134

CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

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



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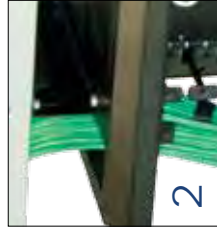
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ENHANCED NETWORKING (EN) ENCLOSURE FEATURES & ACCESSORIES



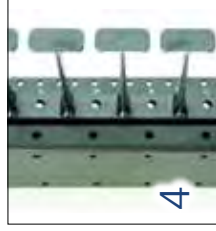
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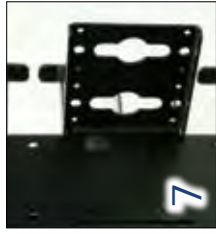
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The EN Enclosure is shipped fully assembled and is capable of handling simple to complex data, switch, and server requirements. EN Configurations include a complete enclosure (frame, side panels, and doors), frame and doors, and simply a frame.

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

1. Frames are designed with no corner posts so that large cable bundles are easily routed up and down the enclosure.
2. Large knockouts allow for top cable access. Optional brush grommet is available to seal knock-outs and still allow cable pass through. Brush Grommet Top Panels also available.
3. Cable Management Fingers, made up of 7 RMU sections, are pre-installed on all rails (sections are able to be moved). Finger openings align with RMUs for easy cable pathways. Additional 7 RMU finger sections are available.
4. Two sets of 45 RMU, tapped #10-32 rails (M6 configurations also available); Front rails are fixed and recessed 6.5" from front of enclosure (8" on GL840ENT-4048) to accommodate equipment airflow requirements. Rear rails are fully adjustable.
5. Optional Baffle Kits direct cool air in and exhaust air out of side-to-side airflow equipment. Kits from 11 to 25 RMU are available to accommodate popular size switches.
6. A large, open bottom area creates easy under-floor access of cable bundles and large PDUs. Optional Koldlok raised floor grommets seal floor tile cutouts while allowing cables to pass through.
7. One pair of PDU brackets on each rear rail is pre-installed. Brackets can easily be moved to mount different size PDUs.
8. The "Flexible Mounting Profile" along the frame and rails allow accessories (e.g. cable management rings and mounting brackets) to be mounted without interfering with mounted equipment. Several series of holes can be found on each rail.
9. Ladder Rack Brackets easily support ladder rack and heavy cable bundles. Brackets eliminate the need of overhead cable baskets and infrastructure changes. Top Cable Troughs are also available to facilitate overhead cabling.
10. Grounding studs can be found on the bottom of the frame, side panels, rear door, and front door; quick-disconnect grounding kit is standard; optional copper bus bars easily install to prevent equipment damage.
11. Enclosures gang together at the top of the frame. Because there are no corner posts, the area between two ganged enclosures accommodates large cable bundles. Please see next page.
12. Front mesh door (split mesh doors on GL840ENT-4048) can open left or right-handed. Split rear doors minimize necessary clearance behind the enclosure. Please see next page.

EN ENHANCED NETWORKING



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 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 GL840ENT-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, and grounding kit.*

* Configuration shown with optional baffle kit



The GL840ENT-4048SSS-NS (pictured) includes #10-32 rails with cable management fingers on all rails, 8 levelers, solid top, split mesh front and rear doors, and grounding kit.*

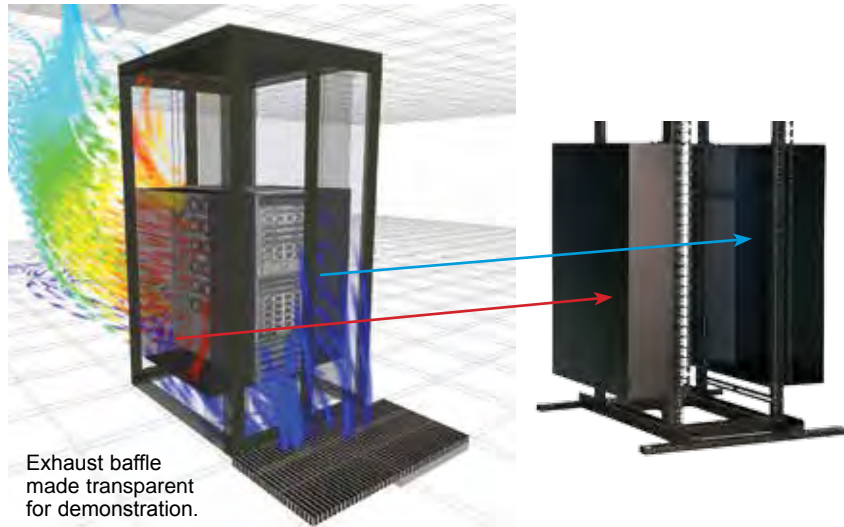
* Configuration shown with optional baffle kit



The GL840ENT-4048-FK (pictured) is an Enclosure frame (#10-32 rails with cable management fingers on all rails), 8 levelers, and grounding kit.*

* 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.

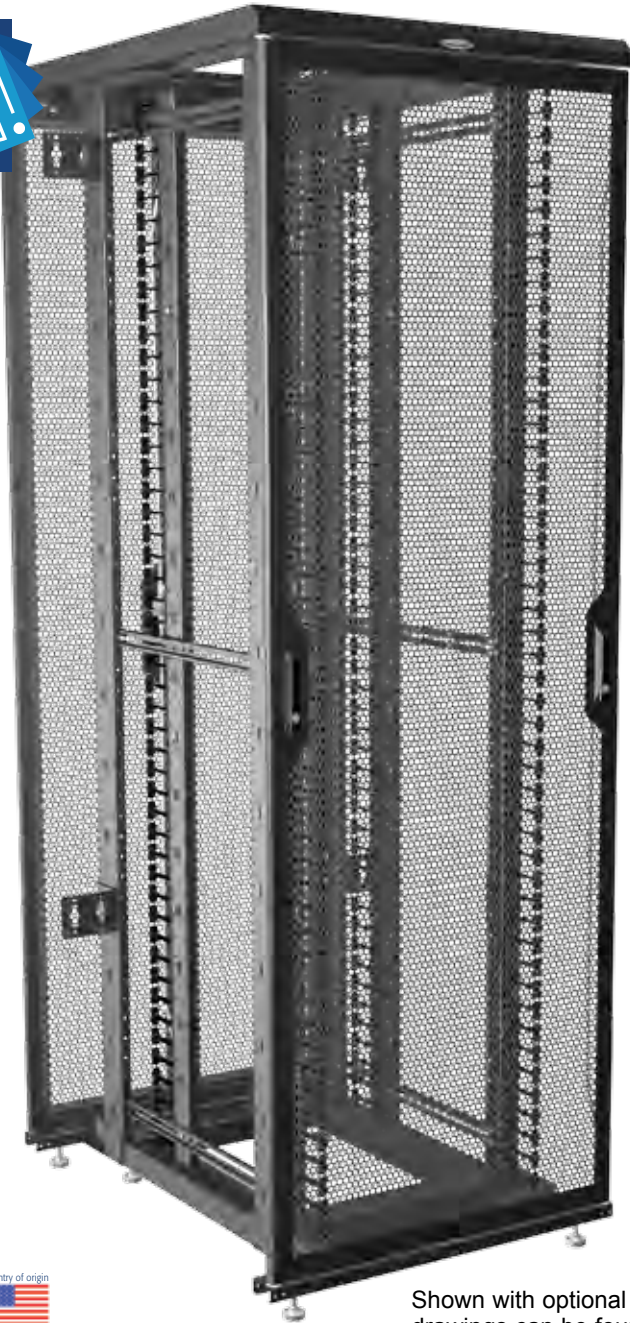
The chart below shows which kits accommodate various CISCO switches. Solutions for Juniper and Brocade equipment is also available. For more information, please call 1.866.TRY.GLCC.

	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 45"D

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

PART NO.	DESCRIPTION
GL910ENT-3242MSS	Enclosure with two pair 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 pair 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 pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included

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

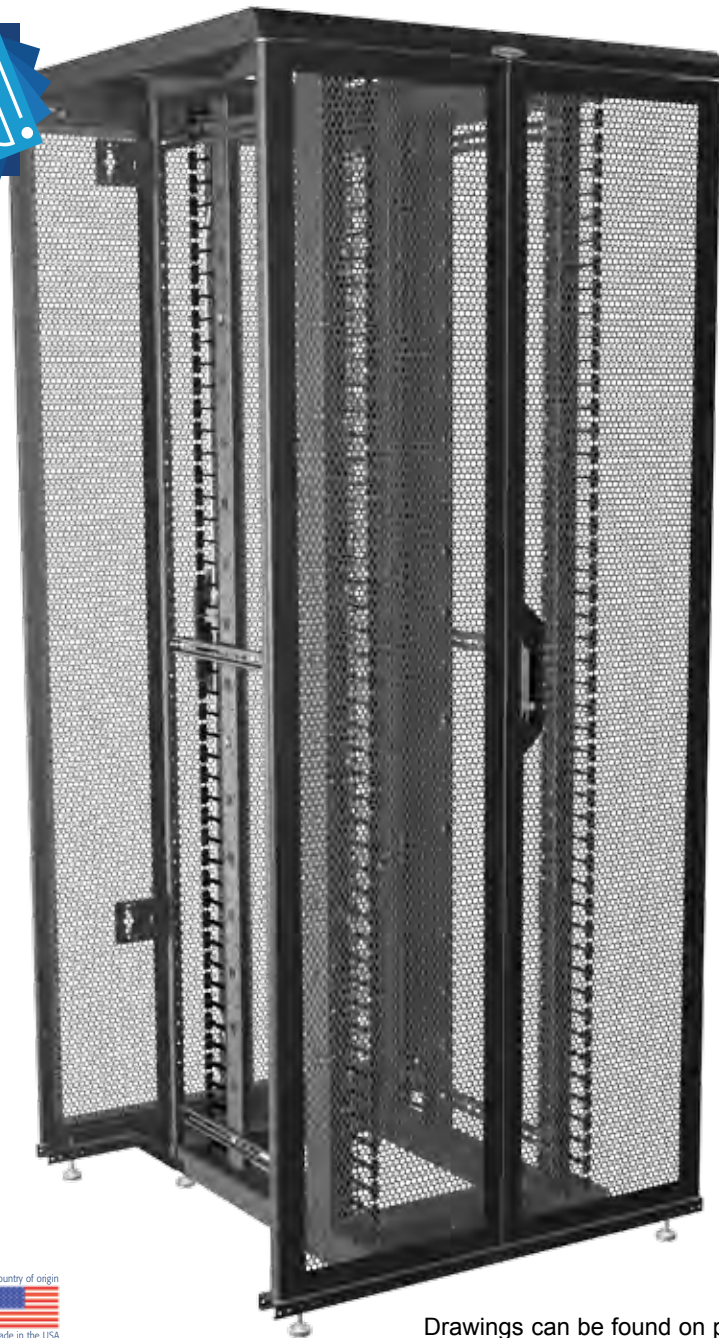
PART NO.	DESCRIPTION
GL910ENT-3248MSS	Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides
GL910ENT-3248MSS-NS	Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers,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

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

Shown with optional accessories, drawings can be found on page 159



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 35"W x 45"D, 500 lbs./98"H x 35"W x 45"D

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

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

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

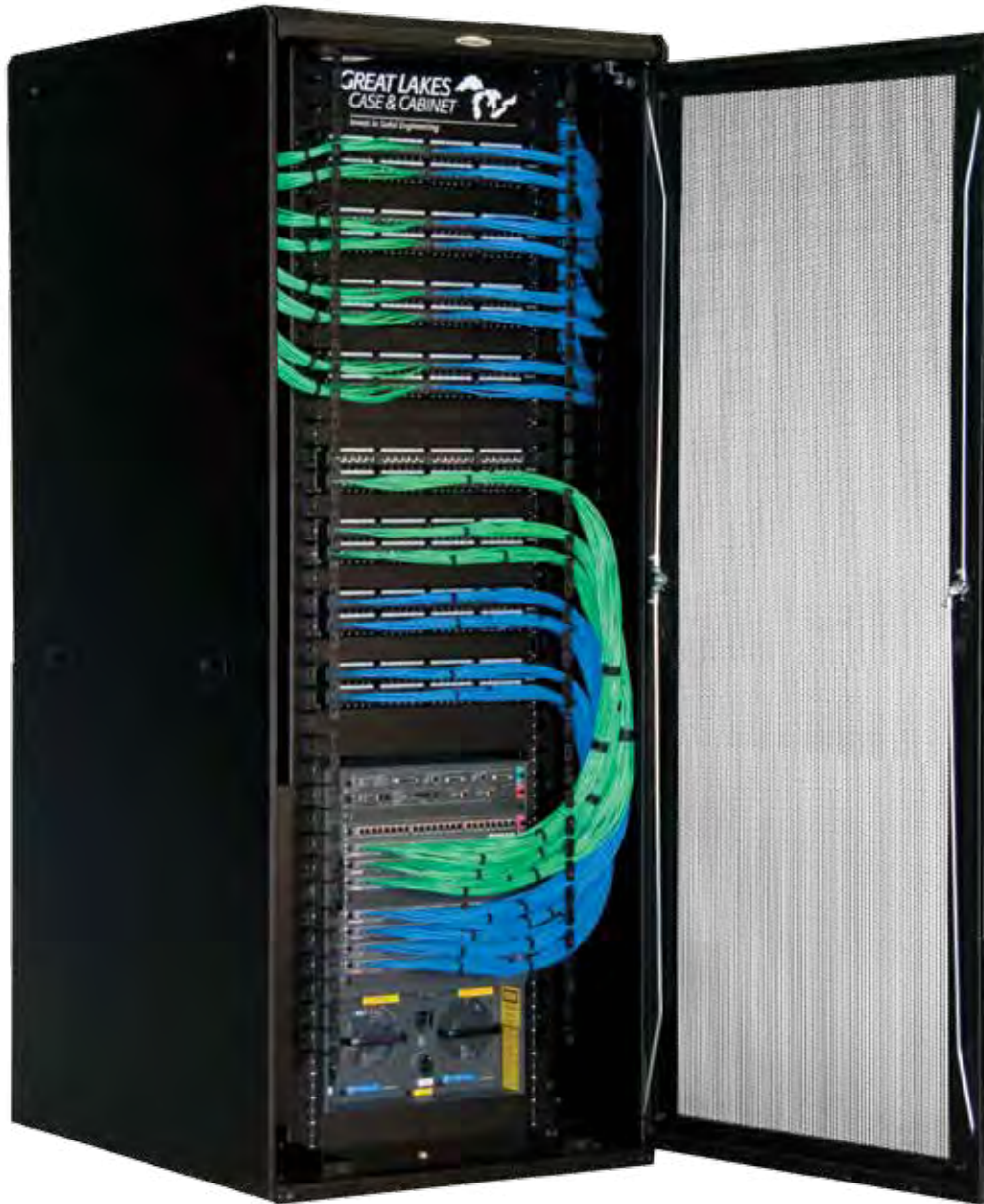
PART NO.	DESCRIPTION
GL910ENT-4048SSS	Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides
GL910ENT-4048SSS-NS	Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included
GL910ENT-4048-FK	Frame with two pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; 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 159

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 45"D

84"H X 32"W X 42"D EN ENCLOSURES PART NO. DESCRIPTION

- | | |
|---------------------|---|
| GL840ENT-3242MSS | Enclosure with two pair 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 pair 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 pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included |

84"H X 32"W X 48"D EN ENCLOSURES PART NO. DESCRIPTION

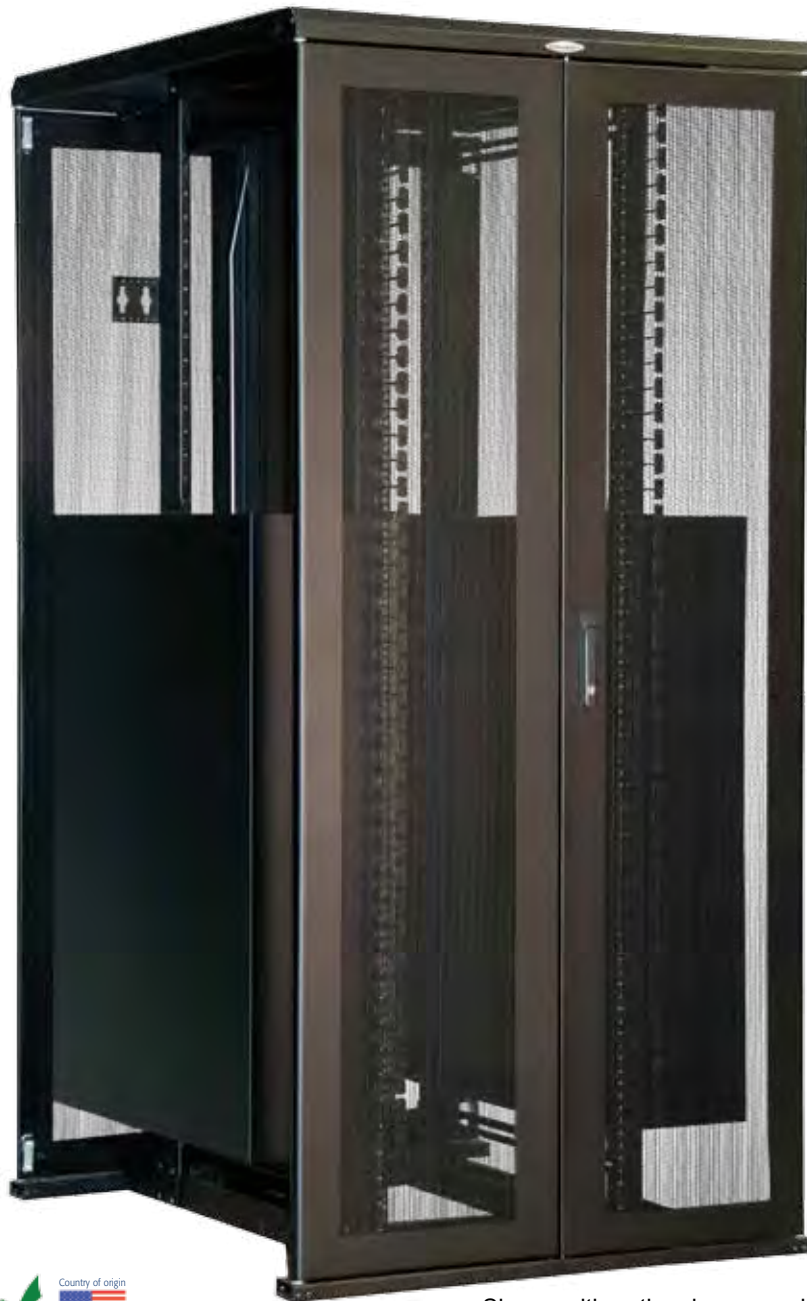
- | | |
|---------------------|---|
| GL840ENT-3248MSS | NEW! Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides |
| GL840ENT-3248MSS-NS | NEW! Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included |
| GL840ENT-3248-FK | NEW! Frame with two pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; 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 159

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 35"W x 45"D, 475 lbs./90"H x 35"W x 45"D

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

PART NO.

DESCRIPTION

- | | |
|---------------------|---|
| GL840ENT-4042SSS | NEW! Enclosure with two pair 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 | NEW! Enclosure with two pair 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 | NEW! Frame with two pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included |

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

PART NO.

DESCRIPTION

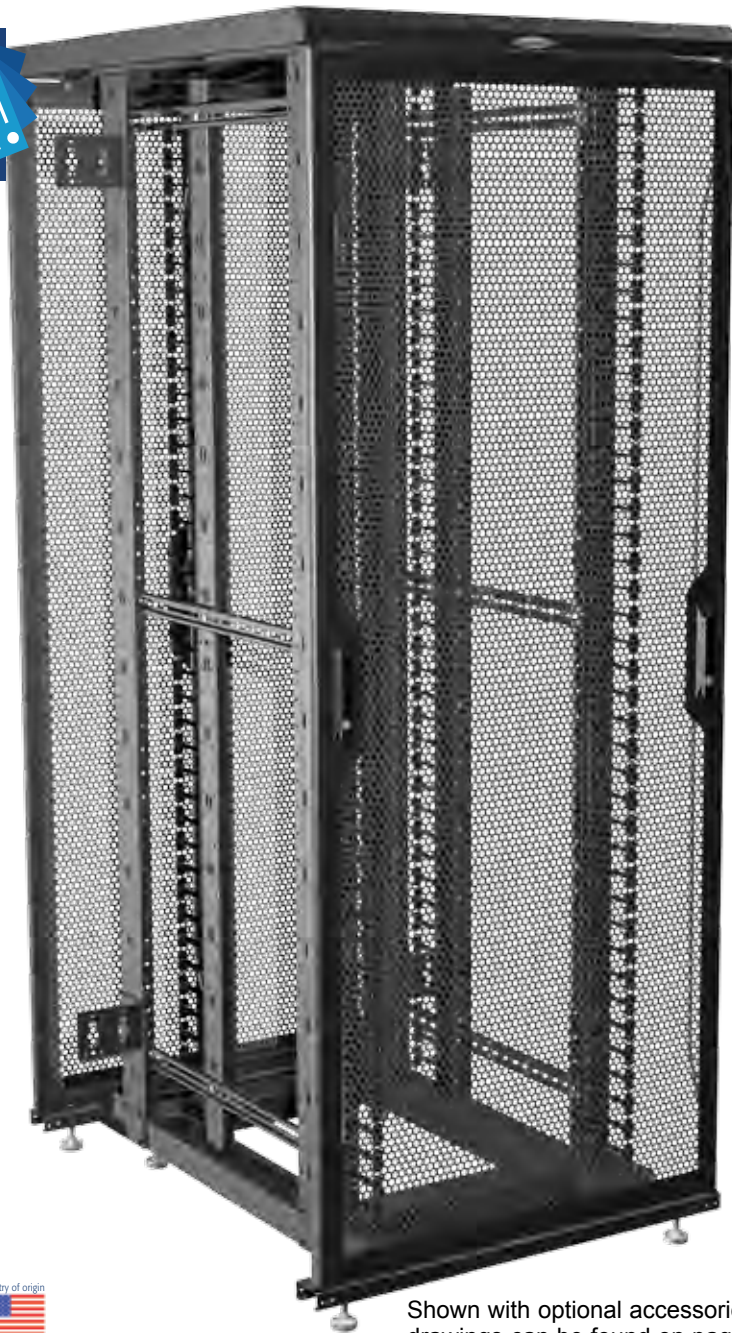
- | | |
|---------------------|---|
| GL840ENT-4048SSS | Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, and solid sides |
| GL840ENT-4048SSS-NS | Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, split mesh front and rear doors, sides not included |
| GL840ENT-4048-FK | Frame with two pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; 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 159

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 35"W x 52"D

78"H X 32"W X 42"D EN ENCLOSURES PART NO. DESCRIPTION

- | | |
|---------------------|---|
| GL780ENT-3242MSS | Enclosure with two pair 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 pair 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 pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included |

78"H X 32"W X 48"D EN ENCLOSURES PART NO. DESCRIPTION

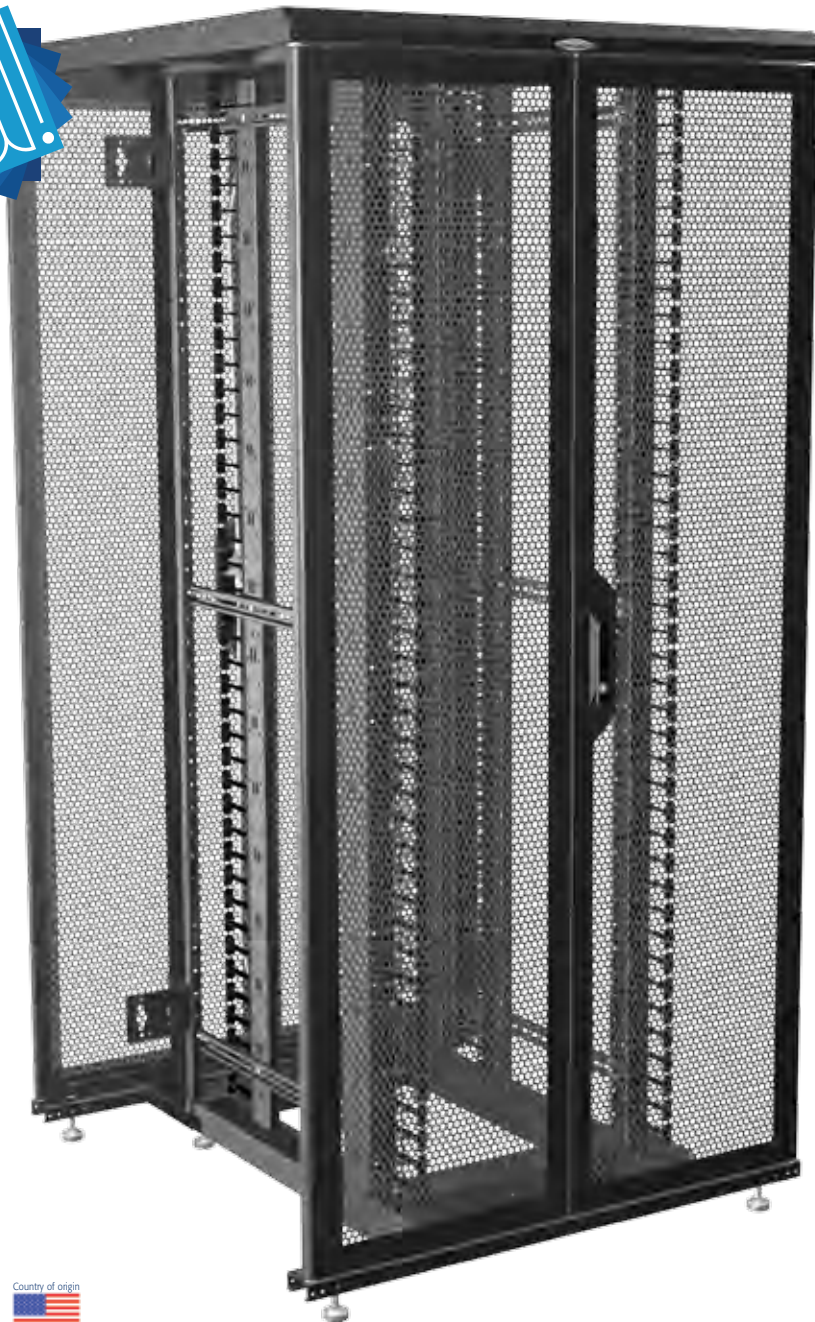
- | | |
|---------------------|---|
| GL780ENT-3248MSS | Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, split mesh rear door, and solid sides |
| GL780ENT-3248MSS-NS | Enclosure with two pair of tapped #10-32 mounting rails with "fingers"; includes 8 levelers, solid top, mesh front door, and split mesh rear door; sides not included |
| GL780ENT-3248-FK | Frame with two pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included |

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

Shown with optional accessories,
drawings can be found on page 159



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 35"W x 52"D

78"H X 40"W X 42"D EN ENCLOSURES PART NO. DESCRIPTION

GL780ENT-4042SSS Enclosure with two pair 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 pair 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 pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; doors and sides not included

78"H X 40"W X 48"D EN ENCLOSURES PART NO. DESCRIPTION

GL780ENT-4048SSS Enclosure with two pair 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 pair 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 pair of tapped #10-32 mounting rails with "fingers" on all rails; includes 8 levelers; 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 159



1

2

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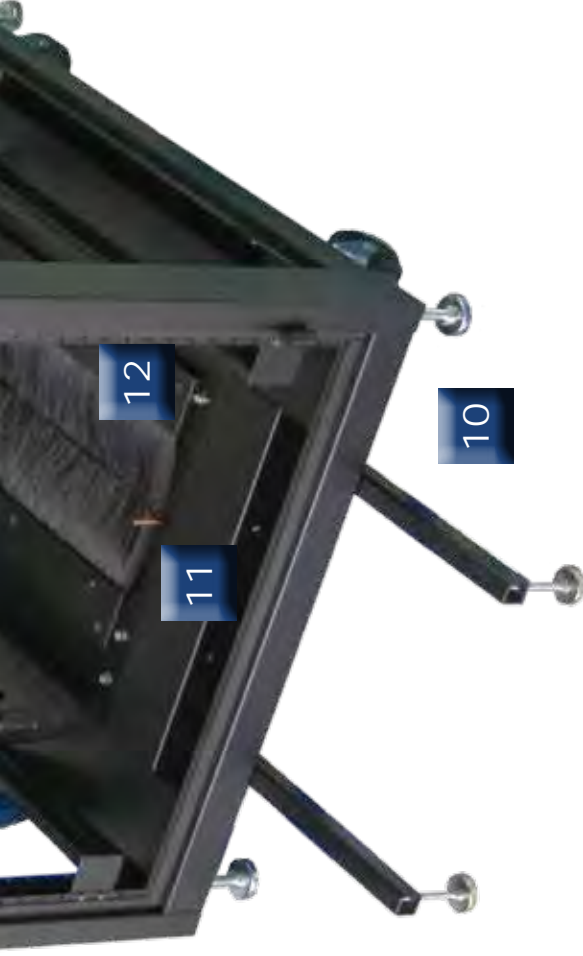
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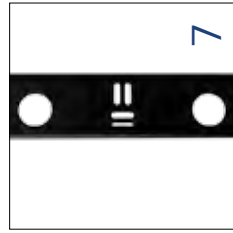
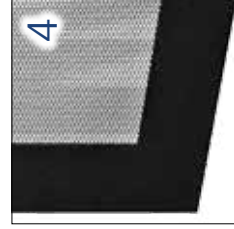
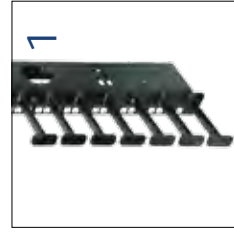
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E ENCLOSURE FEATURES & ACCESSORIES



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

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

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

1. RMU markings on all rails allow quick installation of equipment; The flexible mounting profile (FMP), a series of holes outside the EIA pattern, allows cable management and other accessories to be mounted without taking up RMU space
2. Vertical lacing bars move independently from enclosure rails to route cable up and down where needed; horizontal lacing bars route cable from the front to rear
3. Locking swing handles come standard, but additional handles offer varying degrees of security
4. Mesh doors feature a 68% open area, maximizing air flow into the enclosure
5. Choice of solid, perforated, and fan tops; these tops feature horseshoe knockouts that allow interchanging of top panels without interfering with cables
6. All side panels are locking and easy lift-off; gasketing along the enclosure frame creates a close fit between the frame and panel
7. #12 GA rails are formed three times for strength and support cable management with round cable pass through holes as well as vertical and horizontal tie down slots
8. Three removable hinges allow doors to be easily removed and reversed, while creating 180° open swing
9. PDU1 mounting brackets allow the vertical mounting of any 1 RMU equipment (such as power strips) without occupying any RMU space within the enclosure (29"W enclosures only)
10. Casters and levelers can be installed together, making moving and placing the enclosure quick; anti-tip legs add extra safety as the enclosure becomes more populated
11. Grounding studs on the top and bottom of the enclosure are standard; optional copper bus bars and grounding kits easily install to prevent equipment damage
12. Brush grommet bottom panels allow cable pass through while maintaining raised floor air pressure

E GL840E-2936 SERIES



DIMENSIONS: 84"H x 29"W x 36"D
Maximum rail placement and usable inside depth: 34"
RACK SPACES: 44 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-29	Plexiglas Front Door with locking swing handle
8404E-29	Perimeter Vented Steel Rear Door with locking swing handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

Shown with optional accessories,
drawings can be found on page 160

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



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 116-119

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 124-125

CABLE MANAGEMENT

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

19" RACK MOUNT CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL840E-2932 SERIES



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

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 44 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-29	Plexiglas Front Door with locking swing handle
8404E-29	Perimeter Vented Steel Rear Door with locking swing handle
8410-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160

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 116-119

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 124-125

CABLE MANAGEMENT

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

19" RACK MOUNT CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL840E-2436 SERIES



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

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 44 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-24	Plexiglas Front Door with locking swing handle
8404E-24	Perimeter Vented Steel Rear Door with locking swing handle
8410-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

GL840E-2436F	Complete enclosure with TPE-24F (top panel with three 75 CFM fans)
GL840E-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 160



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 116-119

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 124-125

CABLE MANAGEMENT

VLB-8436	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-36	Horizontal Lacing Bar for 36"D enclosure
VLB-84	Vertical Lacing Bar for 84"H enclosure (includes 6 cinch straps)
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 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

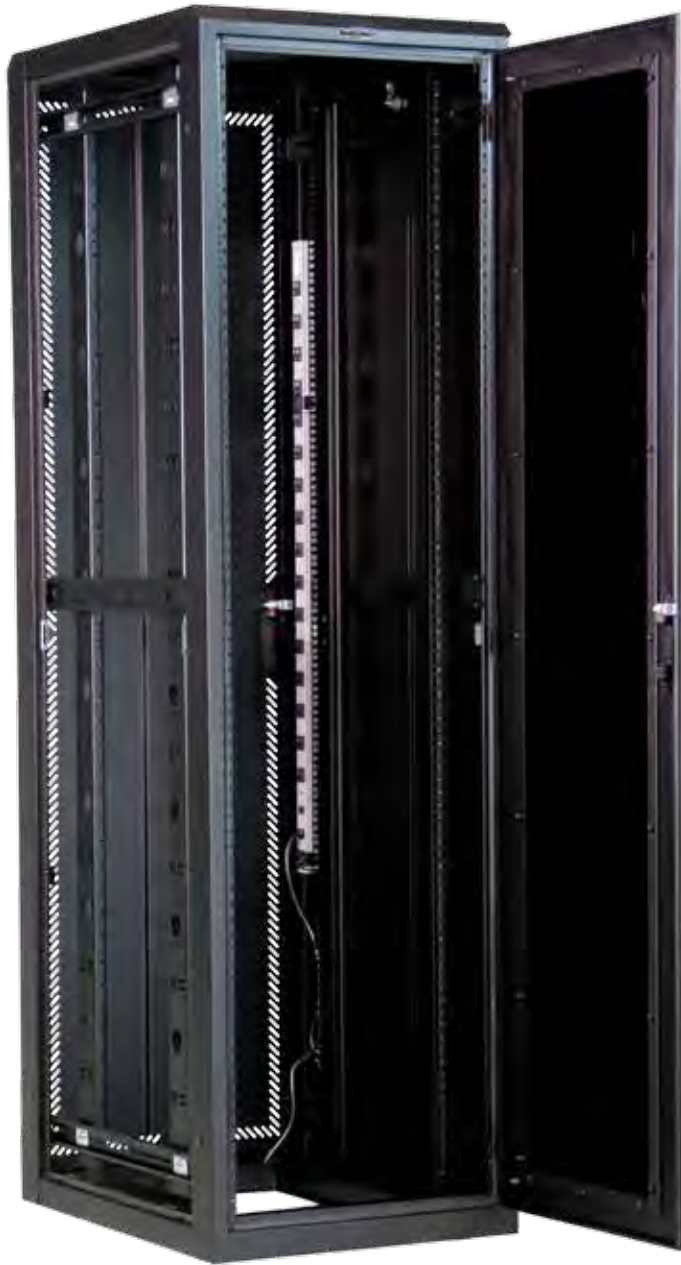
Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL840E-2432 SERIES



DIMENSIONS: 84"H x 24"W x 32"D
Maximum rail placement and usable inside depth: 30"
RACK SPACES: 44 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
8402E-24	Plexiglas Front Door with locking swing handle
8404E-24	Perimeter Vented Steel Rear Door with locking swing handle
8410-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160



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 116-119

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 124-125

CABLE MANAGEMENT

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

19" RACK MOUNT CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL720E-2936 SERIES



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

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 37 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-29	Plexiglas Front Door with locking swing handle
7204E-29	Perimeter Vented Steel Rear Door with locking swing handle
7210-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 116-119

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 124-125

CABLE MANAGEMENT

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

19" RACK MOUNT CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL720E-2932 SERIES



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

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 37 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-29P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-29	Plexiglas Front Door with locking swing handle
7204E-29	Perimeter Vented Steel Rear Door with locking swing handle
7210-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160

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 116-119

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 124-125

CABLE MANAGEMENT

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

19" RACK MOUNT CABLE MANAGEMENT

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

Additional Cable Management, pages 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)
ZR2	Set of two mounting brackets to allow the vertical mounting of any 2 RMU equipment (such as cable organizers) without occupying any RMU space

E GL720E-2436 SERIES



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

Maximum rail placement and usable inside depth: 34"

RACK SPACES: 37 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel With two 4" horseshoe knockouts
7202E-24	Plexiglas Front Door with locking swing handle
7204E-24	Perimeter Vented Steel Rear Door with locking swing handle
7210-36ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160



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 116-119

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 124-125

CABLE MANAGEMENT

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

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 143-151

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 128-129

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT

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

Additional Cooling Equipment, pages 135-142

Additional Power Strips, pages 132-134

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL720E-2432 SERIES



DIMENSIONS: 72"H x 24"W x 32"D
Max. rail placement and usable inside depth: 30"
RACK SPACES: 37 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
7202E-24	Plexiglas Front Door with locking swing handle
7204E-24	Perimeter Vented Steel Rear Door with locking swing handle
7210-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7215	16 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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
<i>Additional Doors, pages 116-119</i>	
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
<i>Additional Top and Bottom Panels, pages 124-125</i>	
CABLE MANAGEMENT	
VLB-7232	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
HLB-32	Horizontal Lacing Bar for 32"D enclosure
VLB-72	Vertical Lacing Bar for 72"H enclosure (includes 6 cinch straps)
19" RACK MOUNT CABLE MANAGEMENT	
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
<i>Additional Cable Management, pages 143-151</i>	
STATIONARY SHELVES FOR 19" MOUNTING	
7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING	
7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-MKM	Monitor/Keyboard/Mouse Shelf
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray
<i>Additional Shelves, pages 128-129</i>	
POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT	
7215-S	16 position, 15 amp Power Strip (with surge suppressor); 5-15R receptacle and 5-15P plug
7215-20ARTLP	16 position, 20 amp Power Strip; 5-20R receptacle and L5-20P plug
7215-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans
<i>Additional Cooling Equipment, pages 135-142</i>	
<i>Additional Power Strips, pages 132-134</i>	

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking
7208-EHD	One set of 4 Heavy Duty Casters, all locking (required for 1500 lb. weight capacity)

E GL600E-2432 SERIES



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

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 31 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
6002E-24	Plexiglas Front Door with locking swing handle
6004E-24	Perimeter Vented Steel Rear Door with locking swing handle
6010-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7218-24	8 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160



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
<i>Additional Doors, pages 116-119</i>	
TOP & BOTTOM PANELS	
TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)
<i>Additional Top and Bottom Panels, pages 124-125</i>	
19" RACK MOUNT CABLE MANAGEMENT	
CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W
<i>Additional Cable Management, pages 143-151</i>	
STATIONARY SHELVES FOR 19" MOUNTING	
7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING	
7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray
<i>Additional Shelves, pages 128-129</i>	
POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT	
7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
7219-20AR	6 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-60	Copper bus bar 58" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans
<i>Additional Cooling Equipment, pages 135-142</i>	
<i>Additional Power Strips, pages 132-134</i>	
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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

E GL480E-2432 SERIES



DIMENSIONS: 48"H x 24"W x 32"D

Maximum rail placement and usable inside depth: 30"

RACK SPACES: 24 RMU • 19" EIA 310-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-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
4802E-24	Plexiglas Front Door with locking swing handle
4804E-24	Perimeter Vented Steel Rear Door with locking swing handle
4810-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7218-24	8 position, 15 amp Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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 160

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
<i>Additional Doors, pages 116-119</i>	

TOP & BOTTOM PANELS	
TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)
<i>Additional Top and Bottom Panels, pages 124-125</i>	

CABLE MANAGEMENT	
VLB-4832	Vertical Lacing Bar Kit (includes 1 vertical bar, 2 horizontal bars and 6 cinch straps)
CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W
<i>Additional Cable Management, pages 143-151</i>	

STATIONARY SHELVES FOR 19" MOUNTING	
7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING	
7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
7206-PKB-MT	Pivoting Keyboard Tray with Mouse Tray
<i>Additional Shelves, pages 128-129</i>	

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT	
7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
CBB-48	Copper bus bar 45.75" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans
<i>Additional Cooling Equipment, pages 135-142</i>	
<i>Additional Power Strips, pages 132-134</i>	

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

E GL300E-2432 SERIES



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: 300 lbs.

SHIPPING WEIGHT AND PALLET SIZE:
160 lbs./36"H x 32"W x 38"D

GL300E-2432P COMPLETE ENCLOSURE
INCLUDES PARTS BELOW

PART NO.	DESCRIPTION
3001E-2432	Frame with two pairs of black powder coated, universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
7209-N	One Set of 4 Adjustable Levelers (2.5"H)
TPE-24P	Removable Vented Top Panel with two 4" horseshoe knockouts
3002E-24	Plexiglas Front Door with locking swing handle
3004E-24	Perimeter Vented Steel Rear Door with locking swing handle
3010-32ELS	Pair of Solid Lift-off Side Panels with lock and finger release latches
7219	6 position, Power Strip; 5-15R receptacle and 5-15P plug

ADDITIONAL CONFIGURATIONS

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

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
<i>Additional Doors, pages 116-119</i>	
TOP & BOTTOM PANELS	
TPE-24F	Top Panel and Fan Assembly with two 4" horseshoe knockouts
TPE-24S	Solid Top Panel
BP-EF	Bottom Panel (Filtered)
BP-ES	Bottom Panel (Solid)
<i>Additional Top and Bottom Panels, pages 124-125</i>	
19" RACK MOUNT CABLE MANAGEMENT	
CM-05	Single-sided Cable Organizer, 5 horizontal rings (2.8"W x 1.3"D)
CM-09	Double-sided Cable Organizer, 4 front horizontal and 5 rear horizontal rings (2.8"W x 1.3"D)
CM-15	Double-sided Cable Organizer with plastic fingers and covers, 2 RMU
CM-16	Single-sided Cable Organizer with plastic fingers and covers, 1 RMU
CM-01	Cable Management Cinch Strap, 12"L x 3/4"W
CM-06	Cable Management Cinch Strap, 6"L x 3/4"W
<i>Additional Cable Management, pages 143-151</i>	
STATIONARY SHELVES FOR 19" MOUNTING	
7206-FR-AHD	Front/Rear Mount adjustable, 17.5"W x 22.25"D, 200 lb. weight capacity
7206-FR-ADHD	Front/Rear Mount adjustable, 17.5"W x 27.25"D, 150 lb. weight capacity
7206-FR-A28HD	Front/Rear Mount adjustable, 17.5"W x 28"D, 300 lb. weight capacity

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING	
7206-FRSL-AHD	Front/Rear Mount adjustable, 17.5"W x 22"D, 110 lb. weight capacity
7206-FRSL-ADHD	Front/Rear Mount adjustable, 17.5"W x 26"D, 110 lb. weight capacity
<i>Additional Shelves, pages 128-129</i>	

POWER STRIPS, COPPER BUS BAR, & COOLING EQUIPMENT	
7219-SR14	14 position (6 front/8 back) Power Strip; 5-15R receptacle and 5-15P plug with surge protector
7219-20AR	16 position, 20 amp Power Strip; 5-20R receptacle and 5-20P plug
CBB-30	Copper bus bar 25.5" (isolated)
7217FT	Fan Tray with fan guards and three 75 CFM fans
7217FT-3	Fan Tray (Front/Rear Mount adjustable) with fan guards and three 75 CFM fans
<i>Additional Cooling Equipment, pages 135-142</i>	
<i>Additional Power Strips, pages 132-134</i>	

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-N4	One set of 4 Adjustable Levelers (4"H); (When using casters and levelers together, 4"H levelers are required)
7208-E	One set of 4 Casters, 2 locking and 2 non-locking

CL CO-LO ENCLOSURE



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

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

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

Maximum rail placement: 34"; usable inside depth: 33"

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

STOCK COLOR: Black

RAILS RATED AT: 1500 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

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

PART NO.	DESCRIPTION
GL84CL3MM	Complete 3 compartment Co-Lo Cabinet (14 RMU per compartment) with mesh front and rear doors; secure vertical cable management raceways (rear raceway, 54.5"H x 5.75"W x 2.75"D; front raceway 28.5"H x 5.75"W x 2.75"D); two pairs of powder coated universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
GL84CL3PF	Same as GL84CL3MM except with perimeter vented plexi front doors and solid rear doors with built in exhaust fans

ACCESSORIES

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

Additional sizes are available. Please call 1.866.TRY.GLCC



Shown with optional accessories

CO-LO ENCLOSURE CL



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

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

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

Maximum rail placement: 34"; usable inside depth: 33"

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

STOCK COLOR: Black

RAILS RATED AT: 1500 lbs.

SHIPPING WEIGHT AND PALLET SIZE:

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

PART NO.	DESCRIPTION
GL84CL2MM	Complete 2 compartment Co-Lo Cabinet (21 RMU per compartment) with mesh front and rear doors; secure vertical cable management raceways (44.38"H x 5.75"W x 2.75"D); two pairs of powder coated universal 19", 3/8" sq. (M6) mounting rails (with RMU markings) and package of M6 hardware
GL84CL2PF	Same as GL84CL2MM except with perimeter vented plexi front doors and solid rear doors with built in exhaust fans

ACCESSORIES

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

Additional sizes are available. Please call 1.866.TRY.GLCC



Shown with optional accessories

EZ SEISMIC ENCLOSURE



The Seismic Server Enclosure (EZ) was independently tested and certified to exceed established Seismic Zone 4 NEBS GR-63-CORE testing standards. The EZ accepts standard ES Enclosure accessories, including power strip brackets and cable management. Additional accessory options such as the Great Lakes Air Manager can be customized for the EZ.

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.
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 161

SEISMIC 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 123-130

STATIONARY SHELVES FOR 19" MOUNTING

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

SLIDING & SPECIALTY SHELVES FOR 19" MOUNTING

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

Additional Shelves, pages 110-111

POWER STRIPS & COPPER BUS BAR

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

Additional Power Strips, pages 114-116

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



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



Cable Access Knockouts

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 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 162

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



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

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Anyway you want it,
thats the way we'll ship it,

take the journey with us and we will make your life easy!



Pick the standard enclosure you want, we will install any purchased Great Lakes accessories you need (free of charge) and the configured enclosure you want will ship within 24-48 hours of receipt of order!

WALL MOUNT ENCLOSURES

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



With a wide variety of height, depth, and accessory options there is a wall mount enclosure suitable for any application.

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

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

W CHOOSING THE RIGHT WALL MOUNT

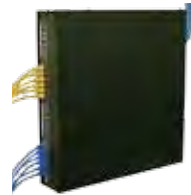
*We Rack
your
World!*



	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
HEIGHT	24", 36", 48"	24", 36", 48"	24", 36", 48"	24"	24, 36, 48"
WIDTH	21.25"	24"	24"	36.10"	24"
OVERALL DEPTH	24.5"	24"	32.13"	20.5"	24"
USABLE DEPTH	22"	21"	30"	Usable space 34"	22"
RMU	12, 19, 25	11, 18, 25	11, 18, 25	10	12, 19, 26
WT. CAP.	150, 250, 300 lbs.	250, 300, 350 lbs.	250, 300, 350 lbs.	350 lbs.	150, 250, 300 lbs.
EIA 310-E 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
FAN ASSEMBLY	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional 2 fan assembly	Optional filtered fans
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	<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 sides 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 side panels 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 Gland plates can be removed to add fans/filters

CHOOSING THE RIGHT WALL MOUNT W

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	WR Series	15WM Series	SR/SRD Series	WMR Series	TPM Series
WHY IT'S GREAT	Ideal for small switch and patch panel applications	Ideal for classroom and small store applications where equipment (DVD players, switches, etc.) is used daily.	An economical solution to mounting equipment where space is limited	Design and features of a rack in the convenience of a wall mount.	Mounting rails tilt down 90° for easy maintenance and access to the back of patch panels, switches, and other small equipment
HEIGHT	4, 7.5"	15"	24, 36, 48"	48"	16.31"
WIDTH	19.75"	22.25"	20.75"	20.25"	19.88"
OVERALL DEPTH	21.63"	17.66"	18, 24"	12.18"	18"
USABLE DEPTH	21"	17"	16, 22"	12"	17"
RMU	2, 4	7	12, 19, 26	24	8
WT. CAP.	50, 75 lbs.	100 lbs.	100 lbs.	250 lbs.	50 lbs.
EIA 310-E COMPLIANT MOUNTING RAILS	One pair of #12-24	One pair of #10-32	One pair of #12-24	One pair of #12-24	One pair of #12-24
FRONT DOOR OPTION	N/A	Solid Steel or Plexiglas	N/A	N/A	Solid steel cover available
HINGES	N/A	Standard hinges	Hinge Pins for easy opening and closing	N/A	N/A
CABLE MANAGEMENT	Provisions for cable cinch straps	½, ¾, 1, and 1 ½" conduit knockouts on top and bottom of back section; ½, ¾, 1, and 1 ½" on back section	Provisions for cable cinch straps	N/A	Open rear cutout for cable access
GASKETING	N/A	N/A	N/A	N/A	N/A
CASTER MOUNTING	N/A	N/A	N/A	N/A	N/A
DUST KIT	N/A	N/A	N/A	N/A	N/A
FAN ASSEMBLY	N/A	Optional one fan assembly	N/A	N/A	N/A
STOCK COLOR	Black	Black	Black	Black	Black
OTHER KEY FEATURES	<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 	<ul style="list-style-type: none"> Optional solid steel front and top cover kit for added security Perforated pattern for airflow

WM SERIES



Shown with optional accessories



FEATURES

- 19" EIA 310-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 101)

PART NO.	DESCRIPTION
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 sides available
- Weight tested to 1/2" 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 101)

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 101)

PART NO.	DESCRIPTION
7219	6 position Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector
7206-EIA	Stationary Shelf, 17.468"W x 18"D, 80 lb. weight capacity
7206-FR-AHD	Stationary Shelf (front/rear mount adjustable) 17.5"W x 22.25"D, 200 lb. weight capacity
7206-SL	Sliding Shelf, 16.343"W x 17.5"D, 40 lb. weight capacity
7206-FRSL-AHD	Sliding Shelf (front/rear mount adjustable) 17.5"W x 22"D, 110 lb. weight capacity
CBB-19	Copper Bus Bar for 19" mounting (isolated)
GR102	Grounding Kit for WM, WD, WS, and WE Wall Mounts
HDW-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



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)
GR102	Grounding Kit for use with WM, WS, WD and WE Wall Mounts
7217-04	Fan Kit (includes single 75 CFM fan with fan guards and power cord)

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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.



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
- Keyed locks with dust covers
- Front and rear sections lock independently
- 2" conduit knock-outs on back panel
- Provisions for fan assembly kit
- 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
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
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

ACCESSORIES

PART NO.	DESCRIPTION
FFKN12-A4	Fan Assembly (includes filter) and exhaust filter, 38 CFM, 115V
FILTER-10	Package of five replacement filters for FFKN12-A4
7219-SR14	14 position (6 front/8 back) Power Strip for 19" mounting; 5-15R receptacle and 5-15P plug with surge protector



NEMA 12K free-standing enclosure also available. Please see page 86 for details.

W SRD, SR



FEATURES

- 19" EIA 310-E Compliant
- #12-24 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., includes #10-32 screws
GL36SRD	36.25"H x 20.75"W x 24"D, Usable depth 22", 19 RMU, Weight Capacity 100 lbs., Shipping wt. 44 lbs., includes #10-32 screws
GL48SRD	48.5"H x 20.75"W x 24"D, Usable depth 22", 26 RMU, Weight Capacity 100 lbs., Shipping wt. 54 lbs., includes #10-32 screws

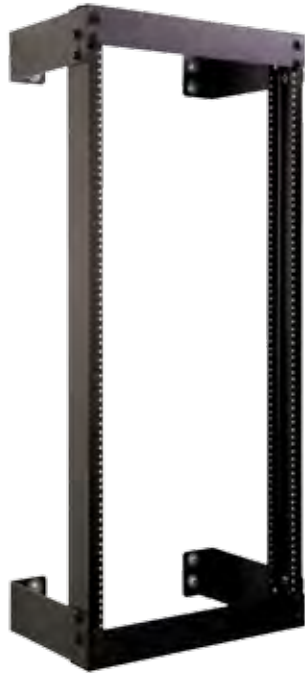


FEATURES

- 19" EIA 310-E Compliant
- #12-24 mounting holes; 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 100 lbs., Shipping wt. 30 lbs., includes #10-32 screws
GL36SR	36"H x 20.75"W x 18"D, Usable depth 16", 19 RMU, Weight Capacity 100 lbs., Shipping wt. 36 lbs., includes #10-32 screws
GL48SR	48.75"H x 20.75"W x 18"D, Usable depth 16", 26 RMU, Weight Capacity 100 lbs., Shipping wt. 48 lbs., includes #10-32 screws



FEATURES

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

WALL MOUNT RACK

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



FEATURES

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

TILT PANEL MOUNT

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

W OTHER WALL MOUNTS



FEATURES

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

DVR LOCK BOX

PART NO.	DESCRIPTION
BS2-UCB3	6.3"H x 21"W x 21"D, 3 RMU, Weight Capacity 100 lbs., Shipping wt. 24 lbs.

BS2-UCB5	9.8"H x 21"W x 21"D, 5 RMU, Weight Capacity 100 lbs., Shipping wt. 29 lbs.
----------	--

ACCESSORIES

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



FEATURES

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

TM3 SERIES

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



FEATURES

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

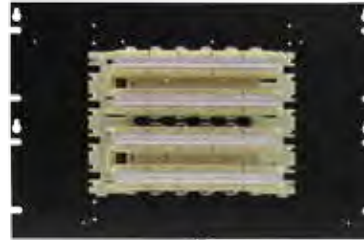
CPUBKT

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

WALL MOUNT ACCESSORIES W



- | 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 |
|----------|--|
| 7208WS | One set of five Casters, two locking and three non-locking; for WS Wall Mounts |
| 7208WD | One set of five Casters, two locking and three non-locking; for WD Wall Mounts |



- | PART NO. | DESCRIPTION |
|-----------|---|
| 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 |

We will definitely need
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Great Lakes has its own line of console and technical furniture systems. Our SENTRY™ and ADVANTAGE® lines can be custom designed with an array of configurations and colors. Contact your Great Lakes Sales Representative for more details. 1.866.TRY.GLCC



This custom SENTRY™ console desk is installed at WQLN Public Media, the PBS affiliate in Erie, PA

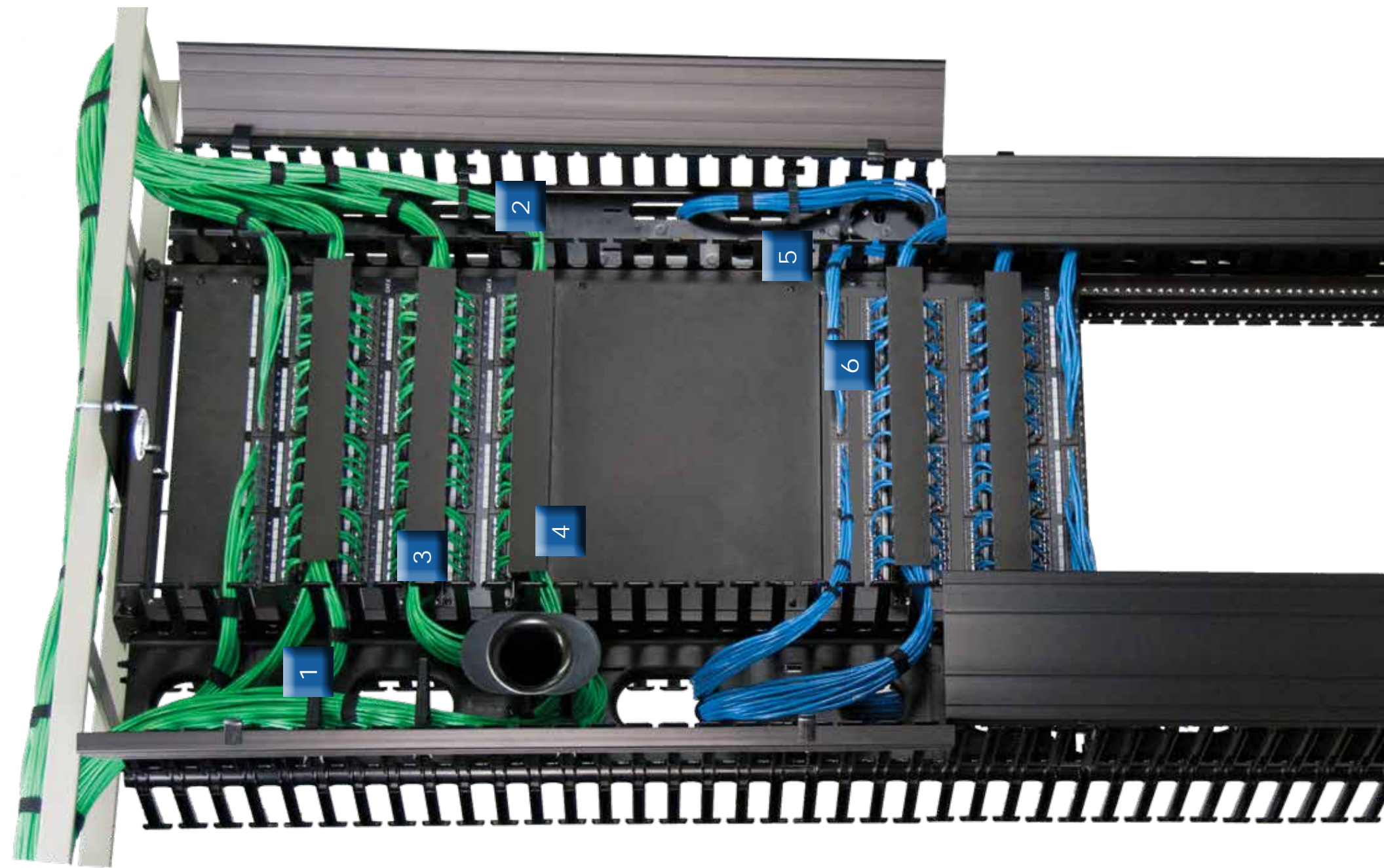


RACKS

2 post • 4 post • cable management

Constructed and built to be more durable than other industry racks, 2 and 4 post racks by Great Lakes can easily withstand a full load of equipment.





- Vertical Cable Managers and accessories easily attach to racks to manage dense cable applications
- 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
- New Enhanced Racks feature a variable depth





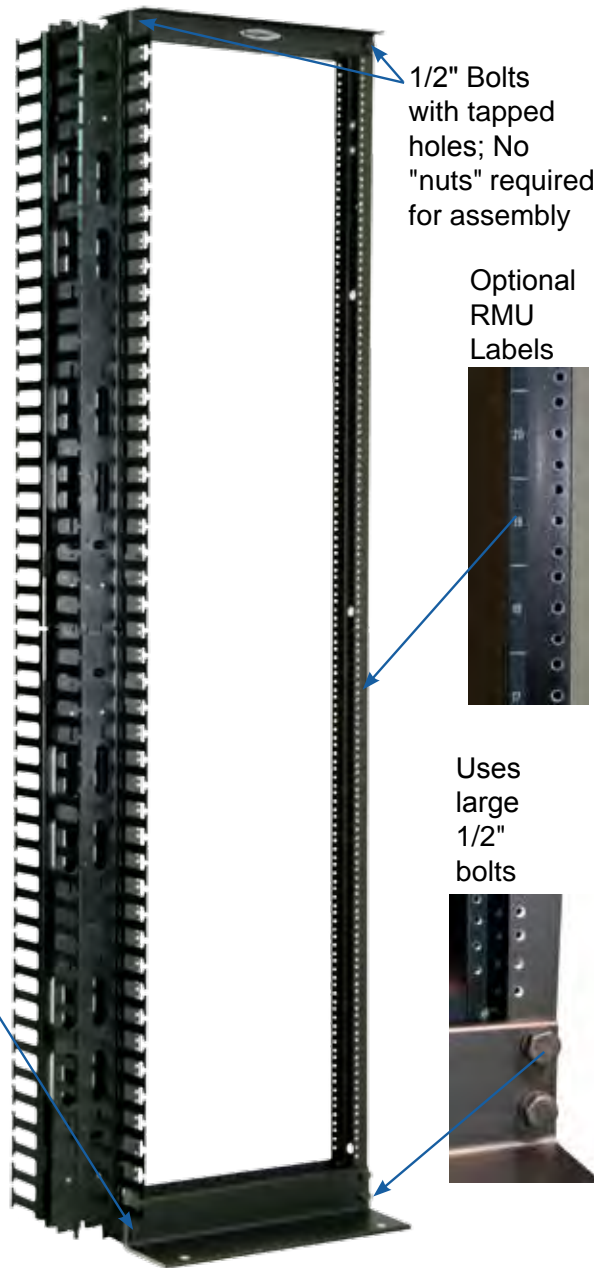
CABLE MANAGEMENT RACK ACCESSORIES

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

1. **8" VERTICAL CABLE ORGANIZER**
 - VCM8-FR (4 slack spools, 12 retainers, front/rear channel)
 - VCM8-FO (2 slack spools, 6 retainers, single channel)
 - 8" x 80"L vertical channel
 - Each channel holds up to 384 CAT6 cables or 738 CAT5e cables
 - Large fingers align with RMUs
 - Contains large cable pass throughs (4.8" x 2.6")
 - Contains small cable pass throughs (2.6" x 2.6")
 - Hinged cover included
2. **5" VERTICAL CABLE ORGANIZER**
 - VCM5-FR (Front/Rear channel as shown in photo)
 - VCM5-FO (Single channel)
 - 5" x 80"L vertical channel
 - Each channel holds up to 126 CAT6 cables or 246 CAT5e cables
 - Large fingers align with RMUs
 - Contains cable pass throughs
 - Cover included; hinge kit available
3. **CABLE RETAINERS**
 - VCM8-WR for 8"; (package of 6)
 - VCM5-CR for 5"; (package of 10)
 - Attaches anywhere along fingers to secure cable bundles
 - Available for 8" and 5" channels
4. **CABLE SPOOL; VCM8-SL (package of 2)**
 - Helps create proper bend radius
 - Stores cable slack
 - Easily repositionable
 - Able to be mounted in 6 locations
 - For 8" channels only
5. **SLACK LOOP ORGANIZER; VCM5-SL (package of 2)**
 - Stores slack cables
 - Adjustable to accommodate needed cable slack
 - For 5" channels only
6. **19" CABLE ORGANIZERS**
 - CM-16 (1 RMU) and CM-17 (2 RMU)
 - Helps organize and direct cables
 - Large finger spacing
 - Includes clips to create proper bend radius
 - Cover included

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

R 2 POST RACKS



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 mtg. 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, 18 RMU, mill finish
GLRR-1936BA	36"H x 20.31"W x 14"D, 18 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 mtg. 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
4PM6-29-8FO	29"D Rack; Includes 8" Vertical Front Only Cable Manager with 2 spools, 6 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.

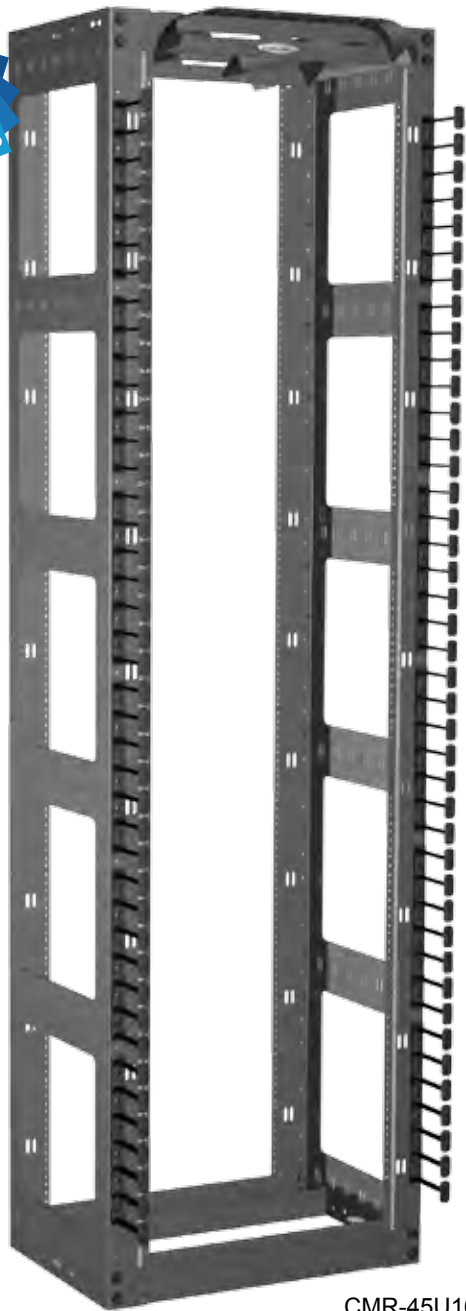
ACCESSORIES

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)

Shown with optional accessories



R CABLE MANAGEMENT RACKS



CMR-45U16

PART NO.
CMR-45U16

DESCRIPTION

NEW! 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.

CMR-45U

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-07

Waterfall Cable Management Trough

CM-01

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

CM-04

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

7206-EIA

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

7206-FM

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

7206-FR-AHD

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

7206-FR-A18

Stationary Shelf (front/rear mount adjustable) 17.5"W x 18"D, 150 lb. weight capacity

7206-SL

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

AK101

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



HD 4 POST RACKS R



PART NO.
VD4PHD-2436

DESCRIPTION

NEW! 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

4PHD29

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

1984-VCM10

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

CM-01

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

7206-FR-ADHD

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

7206-FRA32HD

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

7206-FRSL-ADHD

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

7206-FRSLA300

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

AK101

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

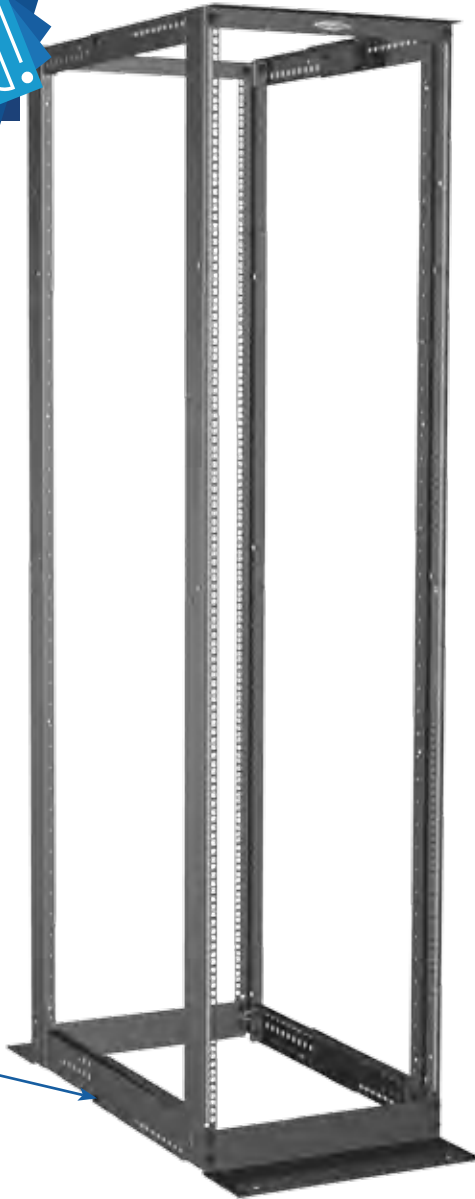
7208-4PHD

One Set of 4 Casters (when used, weight capacity of rack becomes 750 lbs.); for use with 4PHD29 only

4PHD29 shown with optional accessories



R ENHANCED RACKS



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

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-ER	Vertical 5" Front Only Cable Manager; includes Enhanced Rack (ER) bracket kit
VCM8-FO-ER	Vertical 8" Front Only Cable Manager; includes ER bracket kit
VCM12-FO-ER	Vertical 12" Front Only Cable Manager

EQUIPMENT SUPPORT FRAME

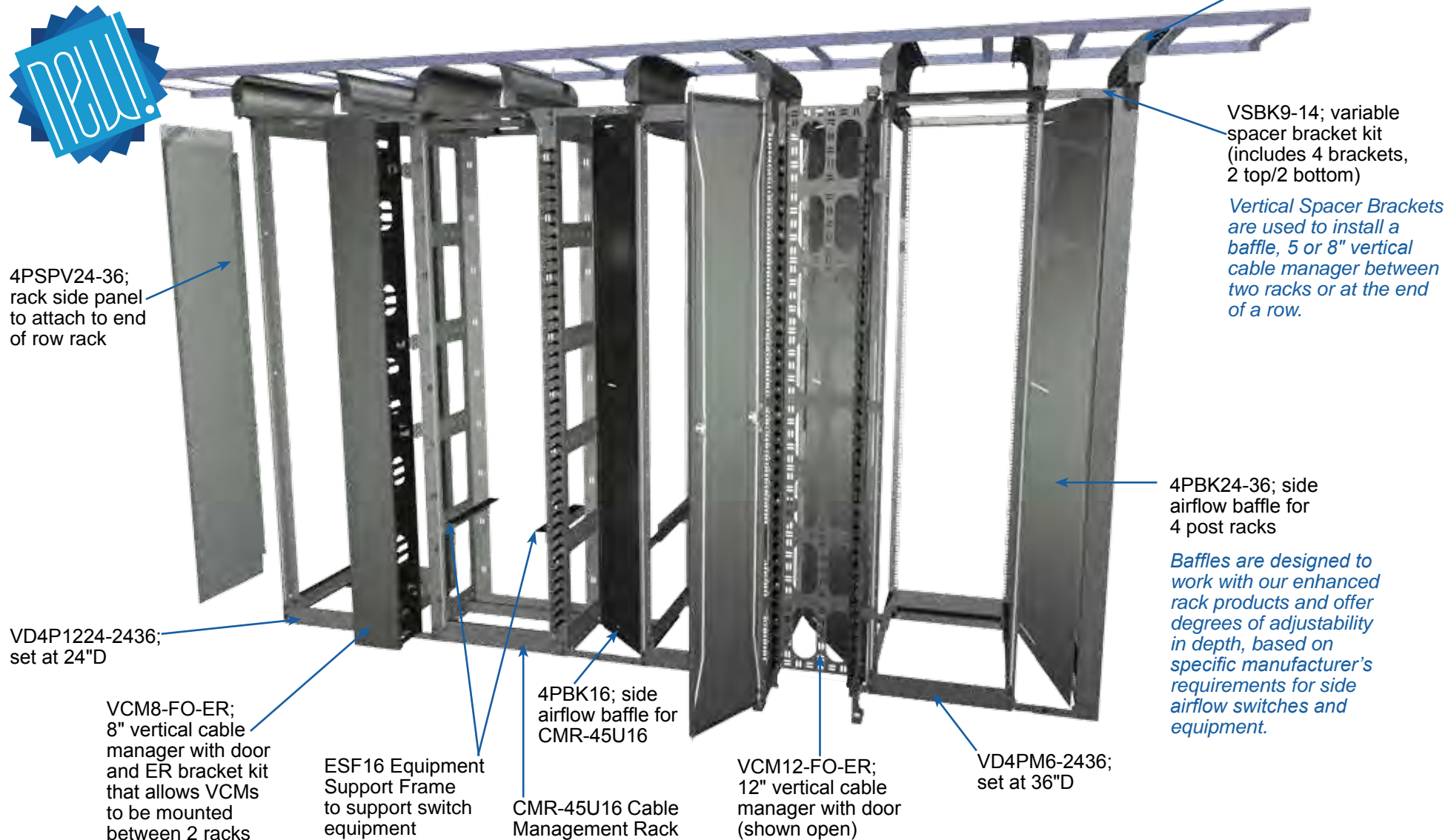
PART NO.	DESCRIPTION
ESF24-29	Equipment Support Frame to support switches installed in any 4 Post Rack; variable depth of 24-29"
ESF16	Equipment Support Frame to support switches installed in CMR-45U16



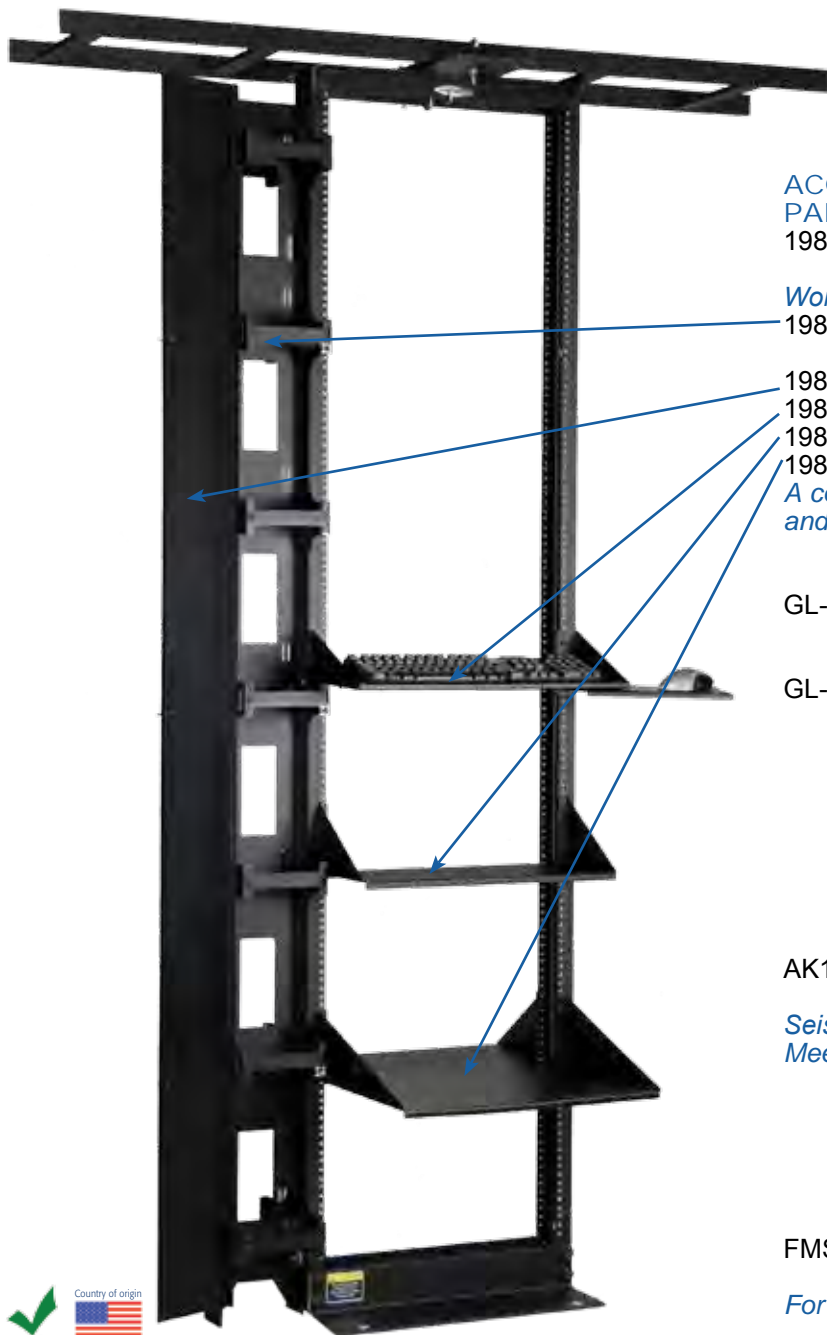
ENHANCED RACKS R

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.



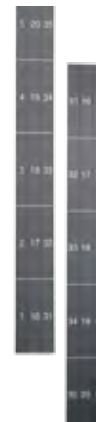
R RACK ACCESSORIES



ACCESSORIES FOR 2 AND 4 POST RACKS

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

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



AK101	Seismic Anchor Kit (includes 4 torque-controlled expansion anchors) <i>Seismic qualifications tested in accordance with ACI 355.2 and ICC-ES AC 193; Meets ductility requirements of 318 D.3.3</i>
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FMSBKT	Front Mount Support Bracket Kit (hardware included) <i>For use with Cable Management and 4 Post Racks</i>
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ACCESSORY options

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

BASIC ENCLOSURE PARTS:

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

COOLING EQUIPMENT:

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

CABLE MANAGEMENT:

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

POWER OPTIONS:

Standard Power Strips • Intelligent PDUs
Grounding Equipment • Mounting Brackets

A DOORS



SOLID STEEL DOORS

PART NO.	DESCRIPTION
3003E-24	Solid Steel Door, 30"H x 24"W Frame
4803E-24	Solid Steel Door, 48"H x 24"W Frame
6003E-24	Solid Steel Door, 60"H x 24"W Frame
7203E-24	Solid Steel Door, 72"H x 24"W Frame
7203E-29	Solid Steel Door, 72"H x 29"W Frame
7803E-24	Solid Steel Door, 78"H x 24"W Frame
7803E-29	Solid Steel Door, 78"H x 30"W Frame
8403E-24	Solid Steel Door, 84"H x 24"W Frame
8403E-29	Solid Steel Door, 84"H x 29" and 30"W Frame
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
7802E-M24	Mesh Steel Door, 78"H x 24"W Frame
8402E-M24	Mesh Steel Door, 84"H x 24"W Frame
8402E-M29	Mesh Steel Door, 84"H x 29" and 30"W Frame



PERIMETER VENTED STEEL DOORS

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



PERIMETER VENTED PLEXIGLAS DOORS

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



PERIMETER VENTED MESH DOORS

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

A DOORS



MESH CONTOUR DOORS

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

SPLIT MESH DOORS

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

SPLIT FAN DOORS

PART NO.	DESCRIPTION
4803E-SF24	Split Fan Door set, 48"H x 24"W Frame
7803E-SF24	Split Fan Door set, 78"H x 24"W Frame
7803E-SF29	Split Fan Door set, 78"H x 30"W Frame
8403E-SF24	Split Fan Door set, 84"H x 24"W Frame
8403E-SF29	Split Fan Door set, 84"H x 29" and 30"W Frame
9103E-SF24	Split Fan Door set, 91"H x 24"W Frame
9103E-SF29	Split Fan Door set, 91"H x 30"W Frame

DOORS AND DOOR HANDLES A



Split Solid Doors are available in black only.

SPLIT SOLID DOORS

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



PART NO.
CH-02

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



PART NO.
CH-03

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



PART NO.
CH-04

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



PART NO.
GL-KEYS

DESCRIPTION
Set of 2 Keys

A BIOMETRIC ACCESS CONTROL



Great Lakes is pleased to offer fingerprint access control systems from Digitus Biometrics Access Security Solutions. db fingerprint access control systems can secure any area of your data center from the front door to the enclosure door.

Ponemon Institute has reported the average cost of a data center break-in to be \$7.2 million. db products are so secure that Digitus Biometrics offers an Enhanced Warranty that reimburses customers, with Digitus biometric technology installed, for the costs associated with a physical security breach.

db's proprietary technology uses an eight-point algorithm to develop a unique fingerprint signature without requiring the storage of any detailed personal information on the individual. db technology also includes Live Finger Detection, LFD, and the technology has never recorded a false positive. Digitus has been installing product since 2005 with no known security breaches. dbServerRack Access Control Solutions Control access to server cabinets and boost regulatory compliance with indisputable audit trails

Digitus Biometrics is a pioneer in biometric access control delivering the industry's most complete set of solutions for physically securing your data and server rack cabinets.

Digitus Biometrics Offers Two System Architecture Choices:

- **db BUS*** - offers multiple options for authentication, either at the cabinet level or at the end of a row of cabinets
- **db ZERO-U*** - a networked solution for server cabinets with a reader/controller combination in each cabinet



db BUS*

The db Bus access control system saves cost by eliminating the need for a controller and dbBUSpower supply at each cabinet. A sophisticated bus-architecture distributes fail-safe signals and electrical power from a single controller to up to 64 cabinet door locks. The db Bus offers multiple options for authentication, either at the cabinet level or at the end of a row of cabinets.



db ZERO-U

a networked solution for server cabinets with a reader/controller combination in each cabinet, available in two configuration options:

1. A single fingerprint sensor can provide simultaneous access to front and rear door of the cabinet
2. Separate fingerprint sensors on the front and rear cabinet doors, providing independent access to each door

Digitus Biometrics also offers the db Nexis solution which delivers biometric access control to building and room doors on the same network platform as the db ServerRack. A customer can now have unified security covering every access point in the data center, from the front door to the enclosure door.



Originally developed for the U.S. Air Force, db ServerRack Access Control Solutions secure mission critical IT/telecom rack enclosures within data centers, colocation facilities, military, government, and educational, healthcare and industrial environments.

Stopping access control at the data center door provides no protection against insider theft. That's why every data privacy rule and regulation – PCI DSS, HIPAA, FISMA and more – considers the protection of physical assets to be as important as protecting the data stored or processed in those assets.

db ServerRack Access Control solutions deliver the highest level of compliance with an indisputable audit trail covering all server cabinet access. When paired with db Nexus, that audit trail covers the entire enterprise.

For more information about Digitus Biometric and/or other electronic access solutions, please ask your Great Lakes representative or call us at 1.866.TRY. GLCC

(the db guarantee against a data center break-in at the cabinet level is offered as part of db's Infinity Plus™ extended warranty programs. For more information, please contact your Great Lakes' representative.)*



SOLID SIDE PANELS

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

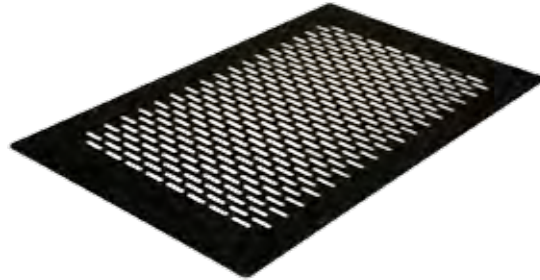
PART NO.	DESCRIPTION
3011-32ELL	Pair Locking Lift-off Vented Side Panels for 30"H x 32"D Frame
4811-32ELL	Pair Locking Lift-off Vented Side Panels for 48"H x 32"D Frame
4811-36ELL	Pair Locking Lift-off Vented Side Panels for 48"H x 36"D Frame
6011-32ELL	Pair Locking Lift-off Vented Side Panels for 60"H 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
7811-36ELL	Pair Locking Lift-off Vented Side Panels for 78"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
TPEN-S

DESCRIPTION
Solid Top Panel for ES Enclosures
Solid Top Panel for EN Enclosures



PART NO.
TPES-P
TPEN-P

DESCRIPTION
Perforated Top Panel for ES Enclosures
Perforated Top Panel for EN Enclosures



PART NO.
TPES-B
TPEN-B

DESCRIPTION
Top Panel with brush grommet for ES Enclosures
Top Panel with brush grommet for EN Enclosures



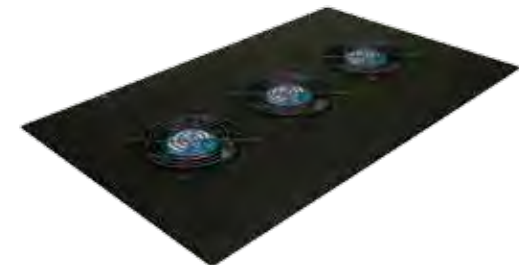
PART NO.
TPES-F10
TPES-F10-230
TPEN-F10

DESCRIPTION
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for ES Enclosures
Top Panel and Fan Assembly with one 10", 550 CFM fan (230V) for ES Enclosures
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for EN Enclosures



PART NO.
TPES-2F10
TPES-2F10-230
TPEN-2F10

DESCRIPTION
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for ES Enclosures
Top Panel and Fan Assembly with two 10", 550 CFM fans (230V) for ES Enclosures
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for EN Enclosures



PART NO.
TPES-F
TPES-F-230
TPEN-F

DESCRIPTION
Top Panel and Fan Assembly with three, 75 CFM fans (115V) for ES Enclosures
Top Panel and Fan Assembly with three, 75 CFM fans (230V) for ES Enclosures
Top Panel and Fan Assembly with three, 75 CFM fans (115V) for EN Enclosures

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

A TOP PANELS FOR E ENCLOSURES



PART NO.
TPE-24S
TPE-29S

DESCRIPTION
Solid Top Panel for 24"W enclosure
Solid Top Panel for 29"W enclosure



PART NO.
TPE-24P
TPE-29P

DESCRIPTION
Perforated Top Panel for 24"W enclosure
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.

For Thermostat Controllers, see page 142



PART NO.
TPE-24F10
TPE-29F10
TPE-24F10-230
TPE-29F10-230

DESCRIPTION
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for 24"W enclosure
Top Panel and Fan Assembly with one 10", 550 CFM fan (115V) for 29"W enclosure
Top Panel and Fan Assembly with one 10", 550 CFM fan (230V) for 24"W enclosure
Top Panel and Fan Assembly with one 10", 550 CFM fan (230V) for 29"W enclosure



PART NO.
TPE-242F10
TPE-292F10
TPE-242F10-230
TPE-292F10-230

DESCRIPTION
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for 24"W enclosure
Top Panel and Fan Assembly with two 10", 550 CFM fans (115V) for 29"W enclosure
Top Panel and Fan Assembly with two 10", 550 CFM fans (230V) for 24"W enclosure
Top Panel and Fan Assembly with two 10", 550 CFM fans (230V) for 29"W enclosure

DC Fans are also available, visit werackyourworld.com



PART NO.
TPE-24F
TPE-29F
TPE-24F-230
TPE-29F-230

DESCRIPTION
Top Panel and Fan Assembly with three, 75 CFM fans for 24"W enclosure (115V)
Top Panel and Fan Assembly with three, 75 CFM fans for 29"W enclosure (115V)
Top Panel and Fan Assembly with three, 75 CFM fans for 24"W enclosure (230V)
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

BOTTOM PANELS FOR E ENCLOSURES A



PART NO. BPS24
DESCRIPTION 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. BPF24
DESCRIPTION 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. FILTER
DESCRIPTION Replacement Filter, 1"H x 10.5"W x 13.5"D



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

BP-ES29B
 Rear Solid Bottom Panel for 29"W E Enclosures



PART NO. BPB24
DESCRIPTION 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
7805-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
7805-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





CAGE NUTS AND SCREWS

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



GANGING KITS

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



#10-32 AND #12-24 SCREWS

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



SEISMIC ANCHOR KIT

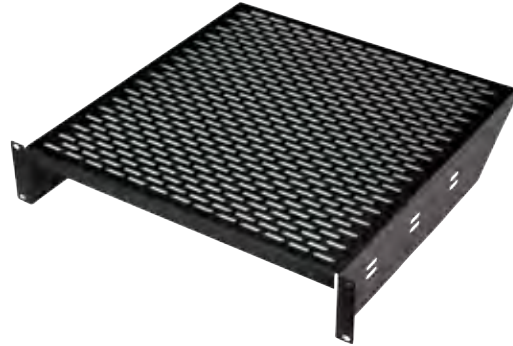
PART NO.	DESCRIPTION
AK101	Seismic Anchor Kit (includes 4 torque controlled expansion anchors)

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

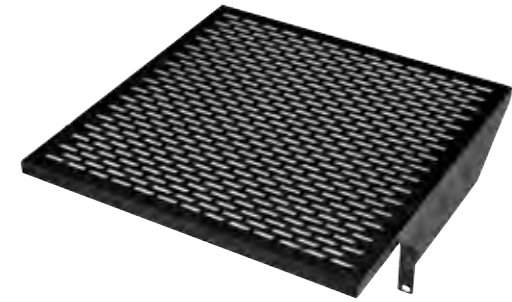
A STATIONARY SHELVES



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



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



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

7206-14
 Dimensions 17.5"W x 14"D;
 Weight Capacity 80 lbs.; 2 RMU



PART NO. 7206-FR-A18
DESCRIPTION
 Dimensions 17.5"W x 18"D;
 Weight Capacity 150 lbs.; 1 RMU
 Maximum Tab Placement 21.5"

7206-FR-AHD
 Dimensions 17.5"W x 22.25"D;
 Weight Capacity 200 lbs.; 1 RMU
 Maximum Tab Placement 26.125"

7206-FR-ADHD
 Dimensions 17.5"W x 27.25"D;
 Weight Capacity 150 lbs.; 1 RMU
 Maximum Tab Placement 32.25"

7206-FR-A28HD
 Dimensions 17.5"W x 28"D;
 Weight Capacity 300 lbs.; 1 RMU
 Maximum Tab Placement 30.18"

7206-FR-A32HD*
 Dimensions 17.5"W x 32"D;
 Weight Capacity 300 lbs.; 1 RMU
 Maximum Tab Placement 36"

* Fits in 36"D Enclosure



SLIDING SHELVES A



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

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

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



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

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



PIVOTING KEYBOARD/MOUSE TRAY

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

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



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

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



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

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



Accessories shown for demonstration only.

MONITOR/KEYBOARD/MOUSE SHELF

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

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

A 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



LEVELERS

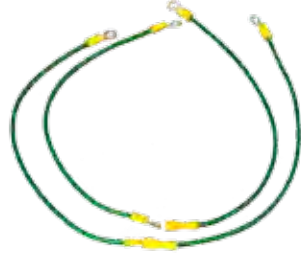
PART NO.	DESCRIPTION
7209-N	One set of 4 adjustable levelers, 2.5"H
7209-N4	One set of 4 adjustable levelers, 4"H



ANTI-TIP LEGS

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

GROUNDING & 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



COPPER BUS BARS

PART NO.	DESCRIPTION
CBB-19	Bus Bar for 19" mounting
CBB-30	Bus Bar for the GL300E enclosure
CBB-48	Bus Bar for 48"H enclosures
CBB-60	Bus Bar for 60"H and 72"H enclosures
CBB-72	Bus Bar for 78"H and 84"H enclosures
CBB-78	Bus Bar for 91"H enclosures

All Bus Bars are isolated.



TINNED COPPER BUS BAR

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



PDU MOUNTING BRACKETS

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



MOUNTING BRACKETS

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



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

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 116).

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







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

Part Number	Number of Receptacles	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

KOLDLOK® RAISED FLOOR GROMMETS A

KOLDLOK® RAISED FLOOR GROMMETS*

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



PART NO.
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



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



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



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



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.

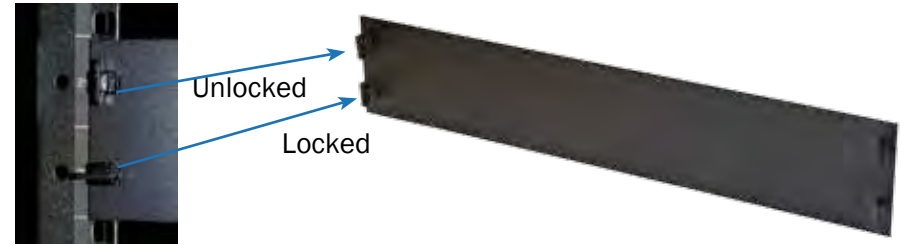
PART NO.	DESCRIPTION
GLAL10108-001CP	.5" Sealing Tape, 10m roll; pack of 10
GLAL10108-002CP	1" Sealing Tape, 10m roll; pack of 10
GLAL10108-003CP	2" Sealing Tape, 10m roll; pack of 10

For technical specifications, visit werackyourworld.com



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 are available. Please call 1.866.TRY.GLCC for details.



FILLER PANELS FOR 19" MOUNTING

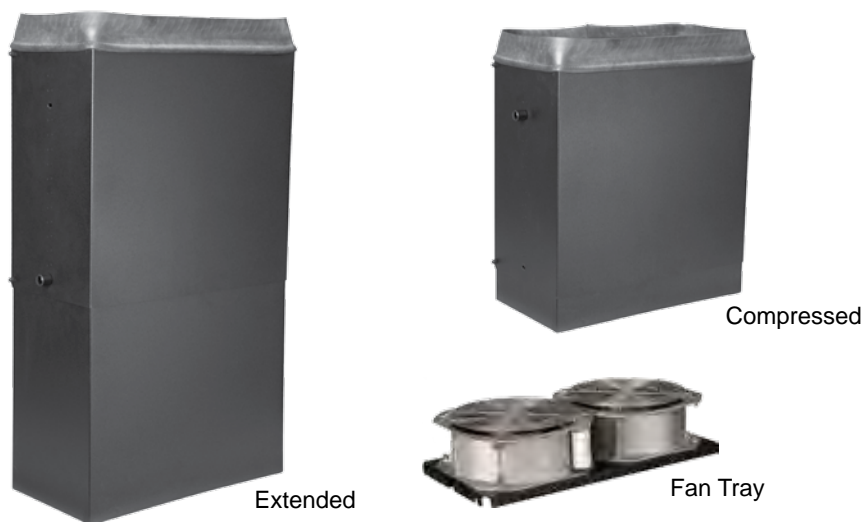
PART NO.	DESCRIPTION
1.75-FP19	1.75"H, 1 RMU
3.50-FP19	3.50"H, 2 RMU
5.25-FP19	5.25"H, 3 RMU
7.00-FP19	7.00"H, 4 RMU
8.75-FP19	8.75"H, 5 RMU
14.00-FP19	14.00"H, 8 RMU



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.

A EXHAUST CHIMNEYS



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

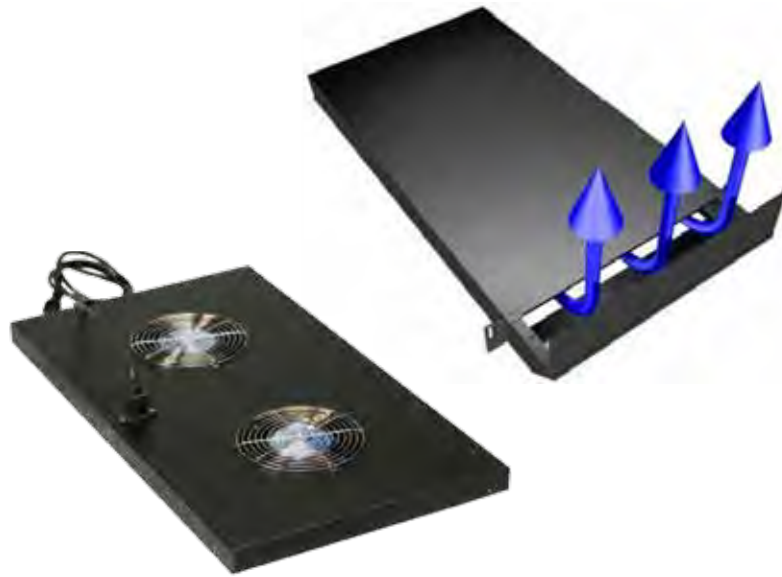


FLEXIBLE DUCT CHIMNEYS

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

AIR MANAGERS AND BRUSH KITS A



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 adjusted 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 78" and 84"H ES enclosures
BGRK30	Kit for 30"W x 78" 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

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 POLARGY PANELS*
Please call 1.866.TRY.GLCC for details



VERTICAL POLARGY PANELS*
Please call 1.866.TRY.GLCC for details



FOAM BLOCKS TO PREVENT BYPASS AIR
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 78"H ES enclosures in aisle widths from 48-72". The doors are mounted with a trolley assembly to rail which spans the aisle and attaches to the enclosure at the end of the row. The doors do not require a bottom track, so there are no obstructions in the aisle way.

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

A FAN ASSEMBLIES



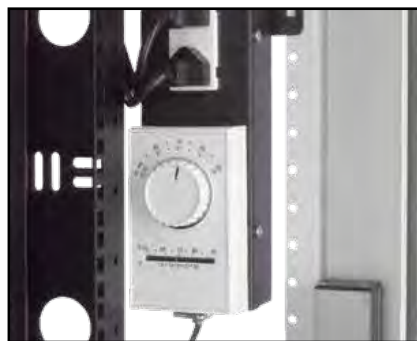
PART NO.	DESCRIPTION
7217FT-3	Fan Tray (front/rear mount adjustable) with Fan Guards and three 75 CFM Fans (115V), 2 RMU
7217FT-6	Fan Tray (front/rear mount adjustable) with Fan Guards and six 75 CFM Fans (115V), 2 RMU
7217FT-9	Fan Tray (front/rear mount adjustable) with Fan Guards and nine 75 CFM Fans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

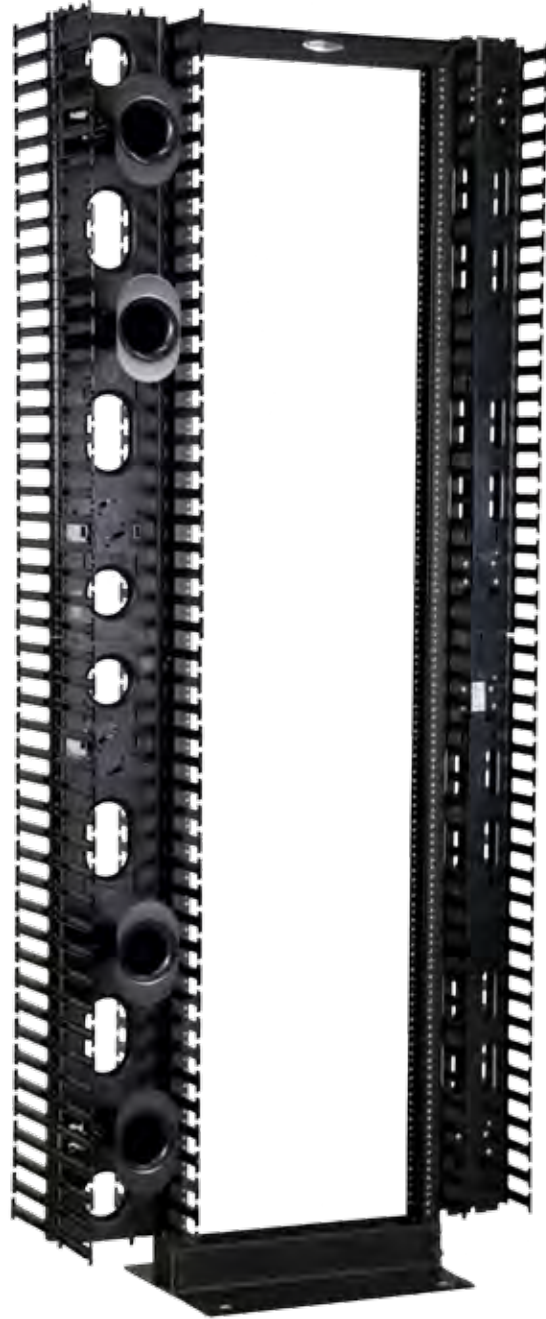


FAN THERMOSTAT CONTROLLER	
PART NO.	DESCRIPTION
FTC101	Fan Thermostat Controller with 6' cord; consists of 15 amp duplex outlets, 50° to 90°F/10° to 30°C temperature range, UL Listed and CSA Certified



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
VCM5-FR	Vertical Front & Rear Cable Management, 5" Channel x 80"L, and black snap-on cover
VCM5-FO	Vertical Front Cable Management, 5" Channel x 80"L, and black snap-on cover; Note: Not compatible with 4 post 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



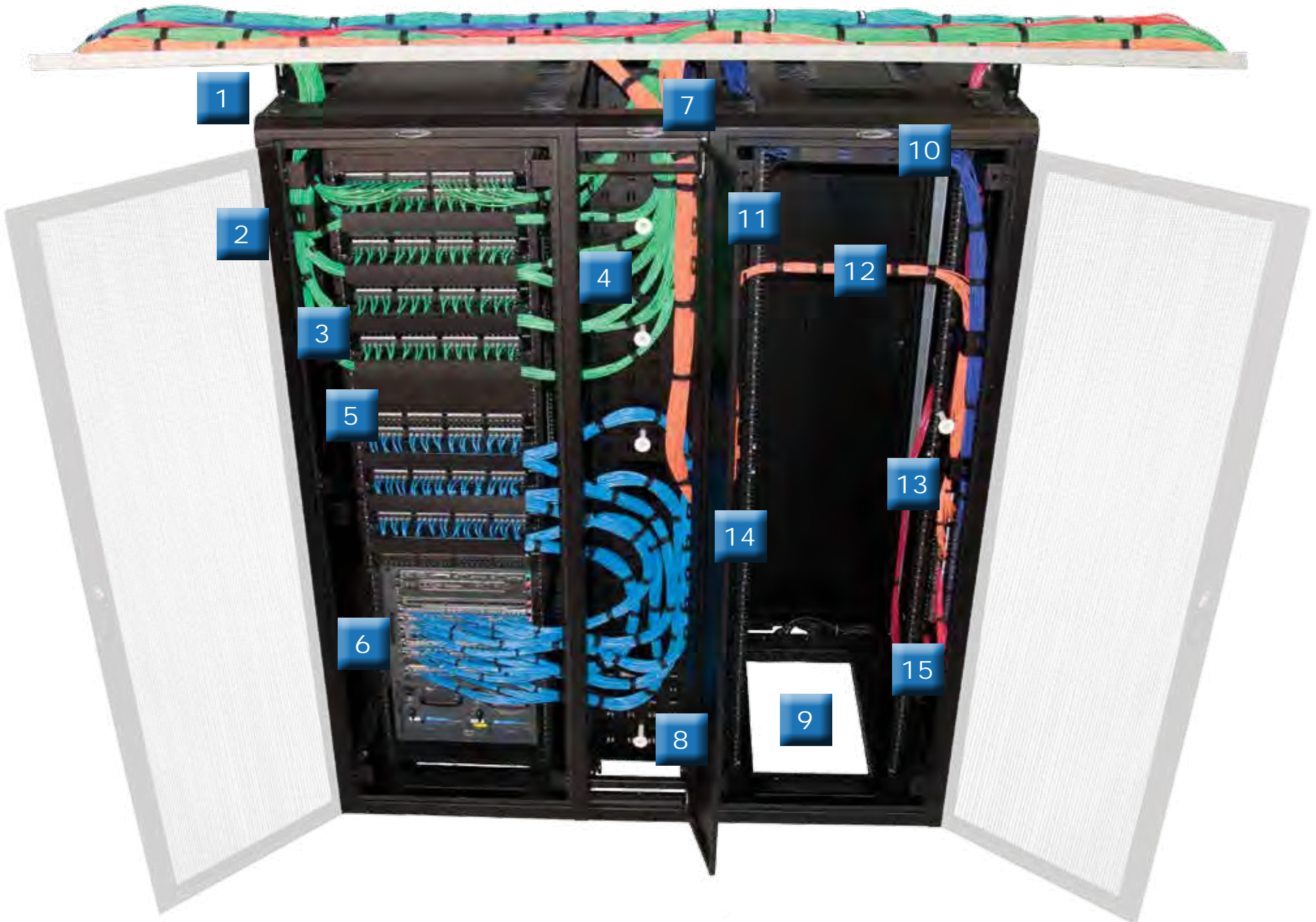
VCM5-HNG

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 MANAGEMENT MADE EASY



CABLE MANAGEMENT MADE EASY A

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

1. OVERHEAD CABLING - page 148

LRB, Ladder Rack Brackets & TCT, Top Cable Trough

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

2. CABLE RINGS - CM-11, Cable Ring Kit (5 rings) - page 146

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

3. 19" CABLE ORGANIZERS - CM-16 - page 147

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

4. CABLE MANAGEMENT POST - page 146

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

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

5. TOOL-LESS FILLER PANELS - 3.50-FPTL19, - page 136

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

6. BAFFLE KIT - page 140

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

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

7. BRUSH GROMMET - BGT - page 139, Top Brush Grommet Kit

- Allows cables to pass overhead while "isolating" airflow

8. EXTERNAL CABLE MANAGER - SC128442 - page 150

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

9. BOTTOM CABLE ACCESS - page 135

Bottom Cable Opening and Floor Grommets

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

10. WATERFALL CABLE MANAGER - CM-07 - page 147

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

11. VERTICAL ORGANIZERS - VCT-84 - page 149

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

12. STRAIN RELIEF BARS - CM-10 - page 146,

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

13. LACING BARS - VLB-8436 - page 151,

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

14. HORIZONTAL TROUGH - HCM-D36 - page 149

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

15. MOUNTING BRACKETS - ZR1 or ZR2 - page 131

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

A CABLE RINGS



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



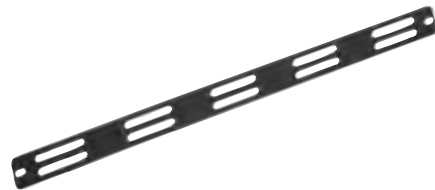
CABLE RING

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 MANAGEMENT RAIL KIT

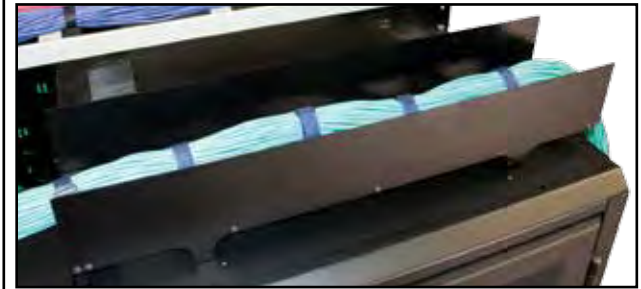
Cable Management Rail Kits are made of multiple pieces of 7 RMU sections of "fingers." When used with ES and E Enclosures, "fingers" are installed on the front of the rail using Great Lakes flexible mounting profile, a series of holes outside of the EIA pattern (used for "fingers" and other accessories). 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"



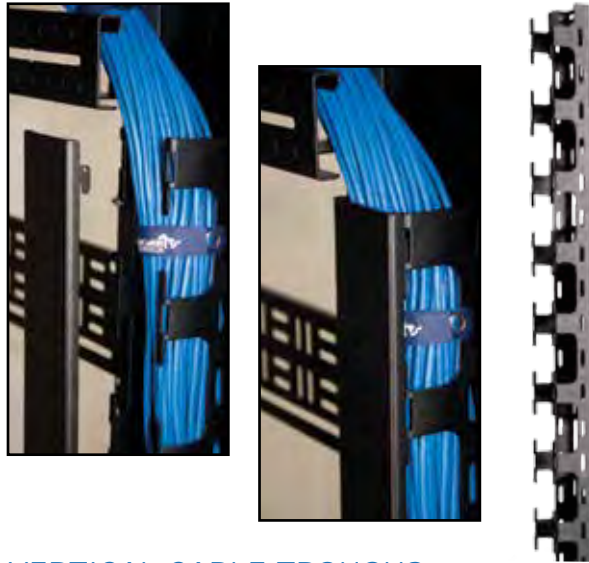
LADDER RACK BRACKETS

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

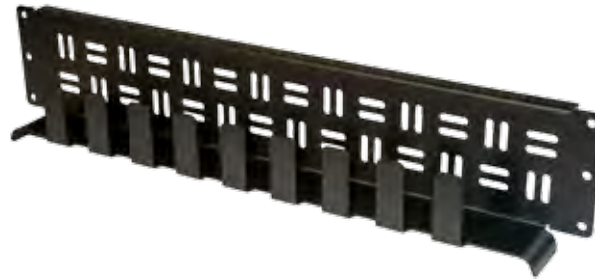
PART NO.	DESCRIPTION
TCT24	Top Cable Trough with hardware for 24"W ES Enclosures; 6.5"W x 4"D x 24"L
TCT30	Top Cable Trough with hardware for 30"W ES Enclosures; 6.5"W x 4"D x 30"L
TCT32	Top Cable Trough with hardware for 32"W EN Enclosures; 6.5"W x 4"D x 32"L
TCT40	Top Cable Trough with hardware for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



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-78	Vertical Cable Trough for 78"H ES Enclosure; 62"H x 3"W x 2.5"D
VCT-78C	Cover for VCT-78



HORIZONTAL CABLE TROUGHS

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

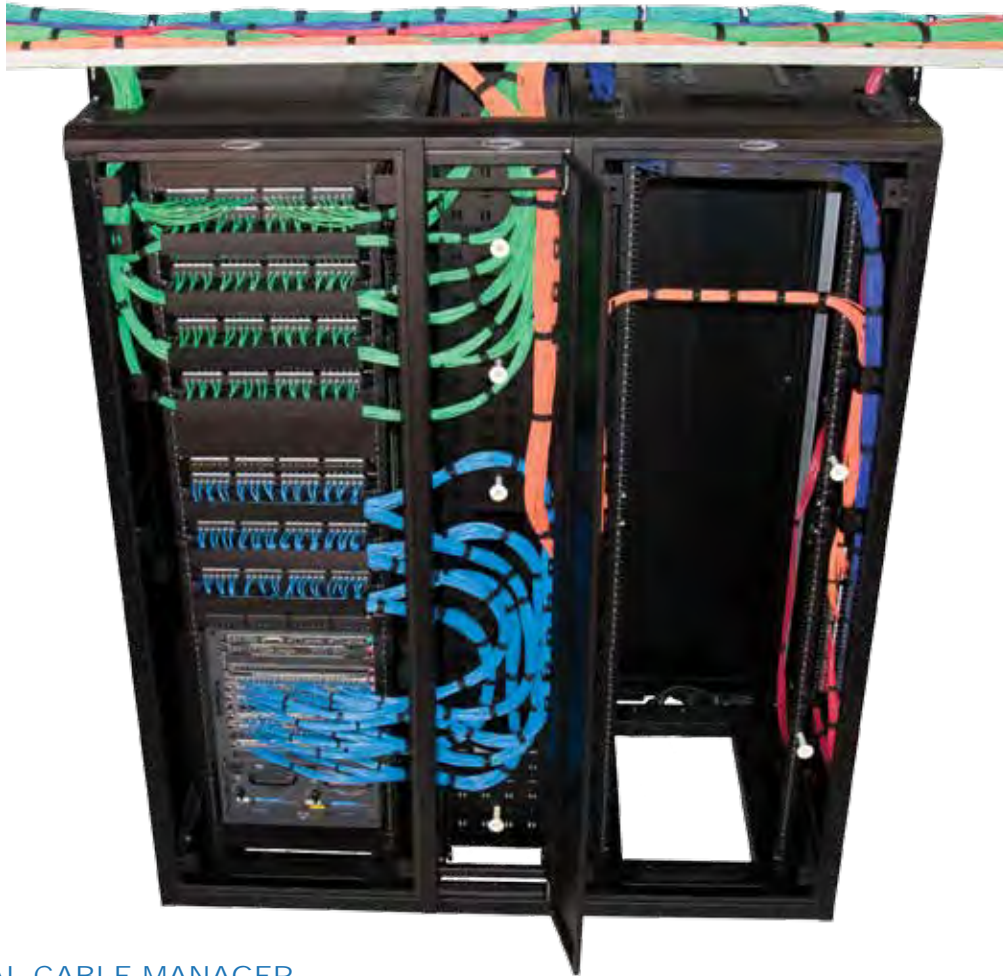
PART NO.	DESCRIPTION
HCM-D36	Horizontal Cable Manager for any 30"W ES Enclosure
HCM-EN48	Horizontal Cable Manager for 48"D EN Enclosures
HCM-EN42	Horizontal Cable Manager for 42"D EN Enclosures



BRUSH GROMMET AND EDGE GROMMET

PART NO.	DESCRIPTION
BGT	Brush Grommet Kit to cover top cable pass through knockouts on 30"W ES Enclosures
BGS-78	Brush Grommet Kit to cover rear vertical cable pass throughs; for 78"H ES Enclosures
BGS-84	Brush Grommet Kit to cover rear vertical cable pass throughs; for 84"H x 42"D ES Enclosures
BGS-84-48	Brush Grommet Kit to cover rear vertical cable pass throughs; for 84"H x 48"D ES Enclosures
BGS-91	Brush Grommet Kit to cover rear vertical cable pass throughs; for 91"H x 42"D ES Enclosures
BGS-91-48	Brush Grommet Kit to cover rear vertical cable pass throughs; 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

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.

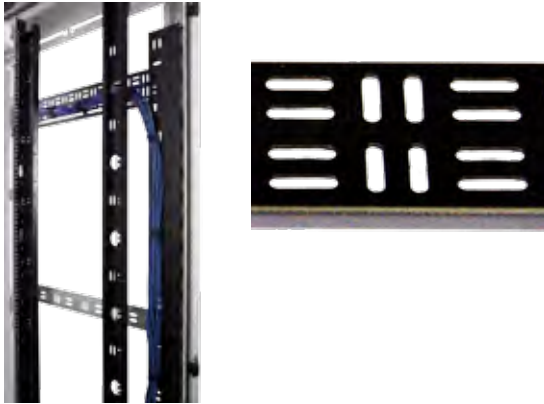
PART NO.	DESCRIPTION
SC68442	External Cable Manager, 84”H x 6”W x 42”D, for use with 84”H x 42”D ES Enclosures
SC68448	External Cable Manager, 84”H x 6”W x 48”D, for use with 84”H x 48”D ES Enclosures
SC128442	External Cable Manager, 84”H x 12”W x 42”D; for use with 84”H x 42”D ES Enclosures
SC128448	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



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

PART NO.	DESCRIPTION
OSRK	Offset Rail Kit for 78”H, 84” and 91”H x 30”W ES Enclosures

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LACING BAR KITS

All Lacing Bar Kits include one vertical lacing bar, two horizontal lacing 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. Combined with horizontal bars, the lacing bar kit creates a quick cable management solution for any Great Lakes enclosure.

PART NO.	DESCRIPTION
VLB-4832	Vertical Lacing Bar Kit for GL480E-2432 Enclosure Only
VLB-4836	Vertical Lacing Bar Kit for GL480ES-2442 Enclosure Only
VLB-7232	Vertical Lacing Bar Kit for E/ES Series Enclosure, 72"H x 32"D
VLB-7236	Vertical Lacing Bar Kit for E/ES Series Enclosure, 72"H x 36"D
VLB-7836	Vertical Lacing Bar Kit for ES Series Enclosure, 78"H x 42"D
VLB-8432	Vertical Lacing Bar Kit for E Series Enclosure, 84"H x 32"D
VLB-8436	Vertical Lacing Bar Kit for E/ES Series Enclosures 84"H x 36", 42" and 48"D
VLB-9136	Vertical Lacing Bar Kit for E/ES Series Enclosures 91"H x 36", 42" and 48"D



HORIZONTAL & VERTICAL LACING BARS

PART NO.	DESCRIPTION
HLB-32	Horizontal Lacing Bar for 32"D Enclosure
HLB-36	Horizontal Lacing Bar for 36", 42" and 48"D Enclosures
VLB-48	Vertical Lacing Bar for 48"H Enclosure; 32"H x 4"W
VLB-72	Vertical Lacing Bar for 72"H Enclosure; 56"H x 4"W
VLB-78	Vertical Lacing Bar for 78"H Enclosure; 62"H x 4"W
VLB-84	Vertical Lacing Bar for 84"H Enclosure; 68"H x 4"W
VLB-91	Vertical Lacing Bar for 91"H Enclosure; 75"H x 4"W

All Vertical Lacing Bars include six 12" long cinch straps



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

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GREAT LAKES CASE & CABINET



Invest in Solid Engineering



Building a stronger **AMERICA** by building at home

DESIGNED, MANUFACTURED
& SHIPPED FROM:

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CORRY, PA

MARION, NC

NAPLES, FL

RENO, NV

**MADE IN
THE USA**
COUNTRY OF ORIGIN



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.

ENCLOSURE WARRANTY

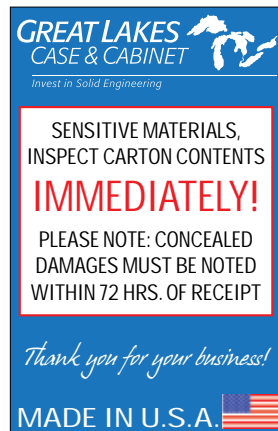
Great Lakes Case & Cabinet Co., Inc. warrants that each of its standard products is free from defects in material and workmanship for a period of one year from date of shipment. If within that period of time, goods shall be determined defective, these goods should be replaced or repaired at Great Lakes' 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.



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



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



The 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.

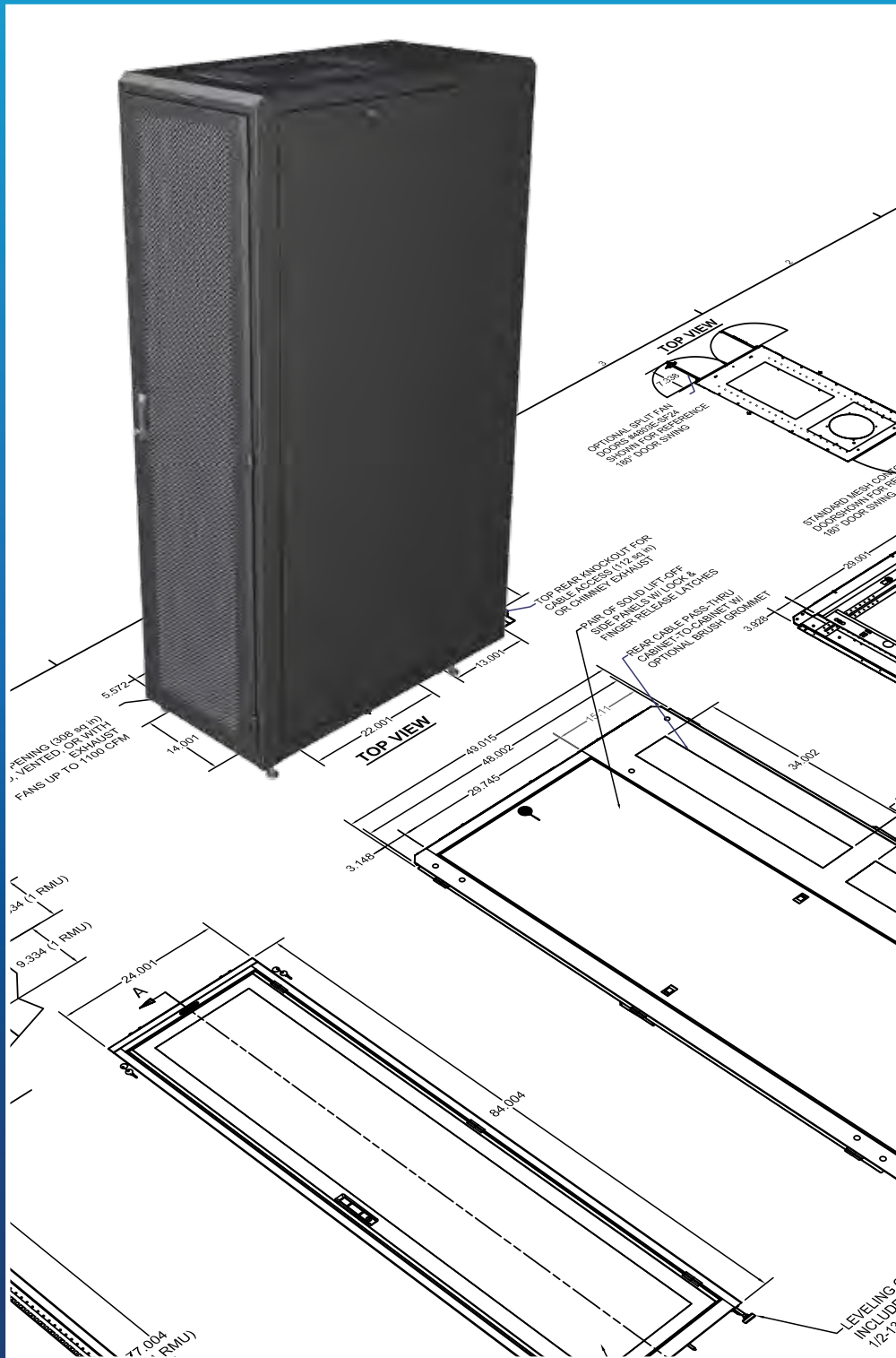


The Armed Forces Communications and Electronics Association (AFCEA) International, established in 1946, is a non-profit membership association serving the military, government, industry, and academia as an ethical forum for advancing professional knowledge and relationships in the fields of communications,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

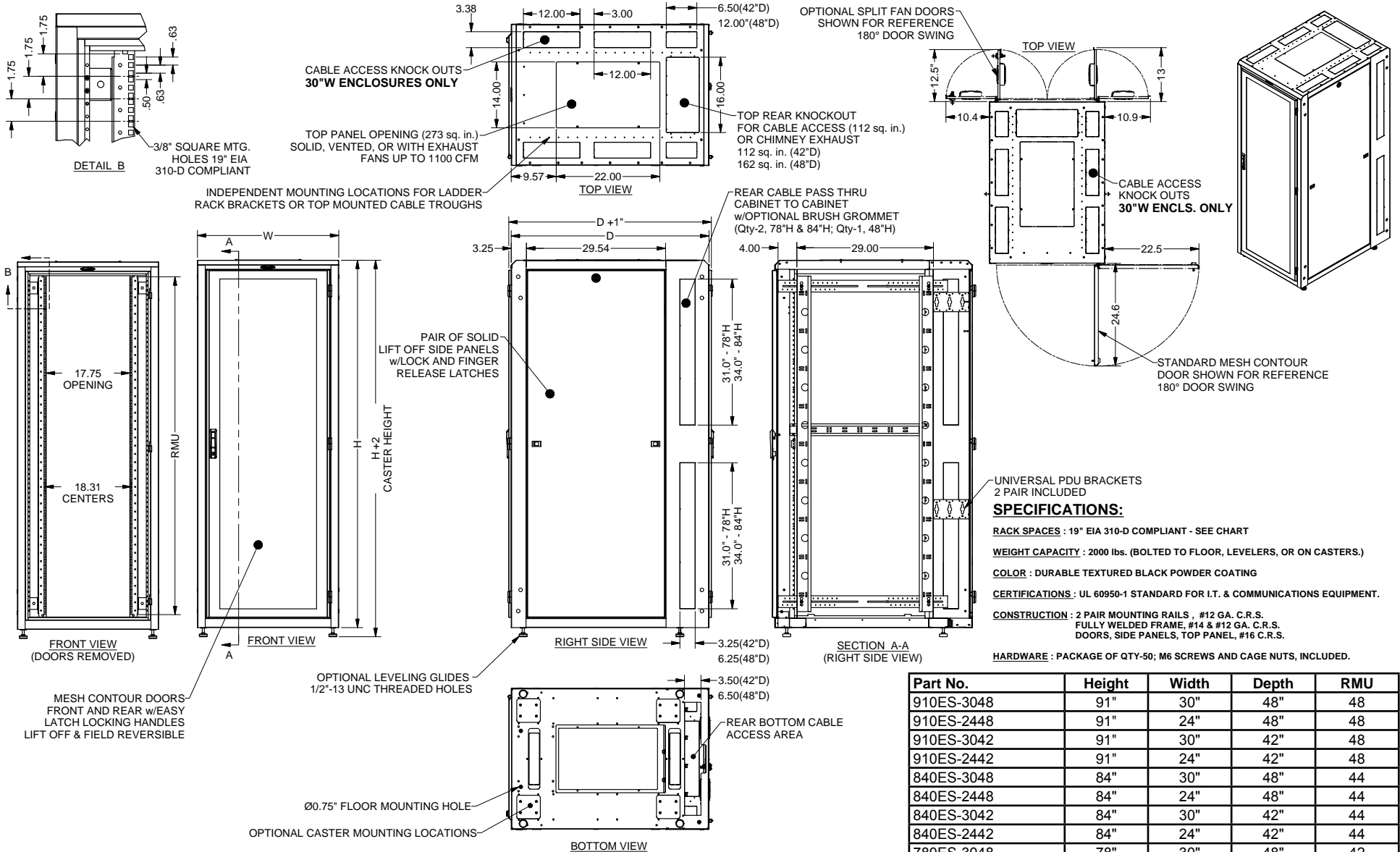


Technical Drawings for Great Lakes Enclosures can be found on the following pages. Drawings point out the general features of all the enclosures in a series: dimensions, cable knock-outs, construction, weight capacity, and more. Detailed drawings for a specific enclosure can be found by visiting WeRackYourWorld.com.

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

Those resources include:

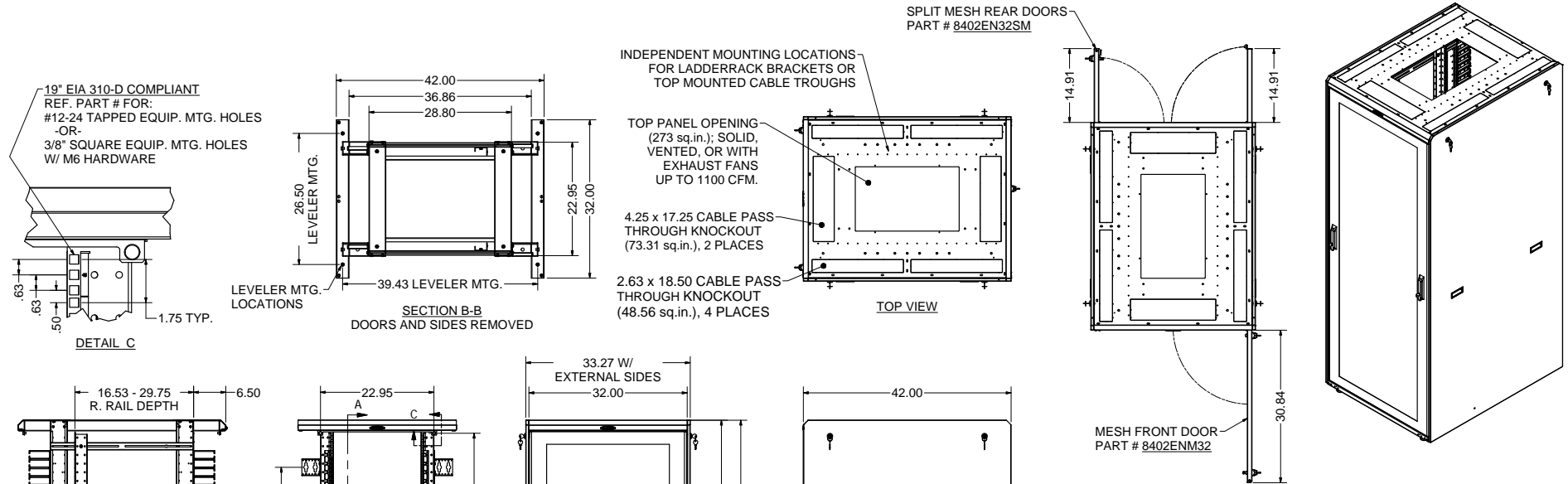
- The Product Configurator
- Revit files for BIM
- Visio Shapes
- DWG and DXF Drawings



SPECIFICATIONS:

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

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
780ES-3048	78"	30"	48"	42
780ES-2448	78"	24"	48"	42
780ES-3042	78"	30"	42"	42
780ES-2442	78"	24"	42"	42
480ES-2442	48"	24"	42"	24



SPECIFICATIONS:

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

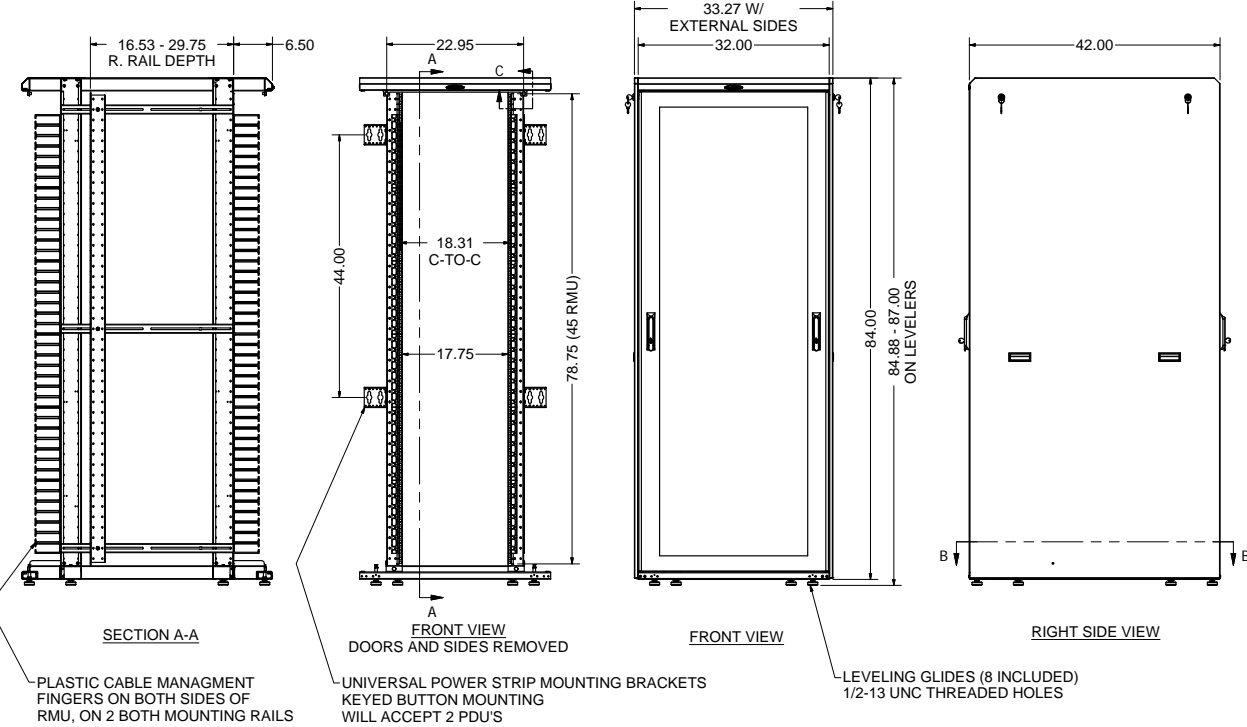
DIMENSIONS : 84.0"H x 32.0"W x 42.0"D

RACK SPACES : 45 RMU w/ NUMBERED RMU INDICATORS, 19" EIA 310-D COMPLIANT.

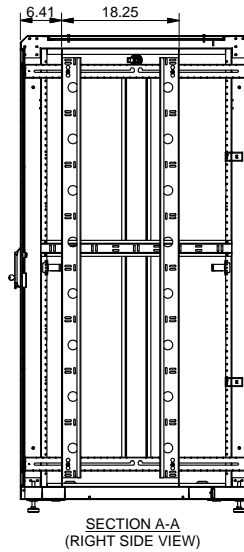
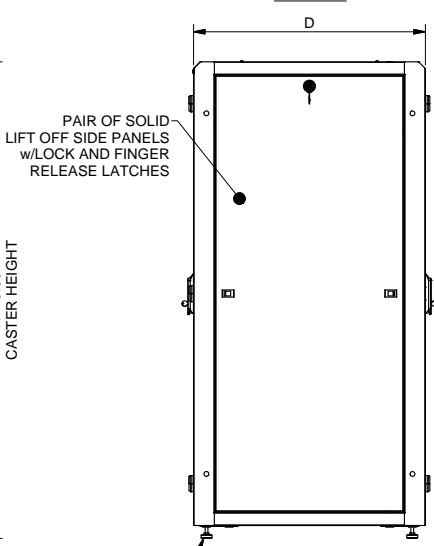
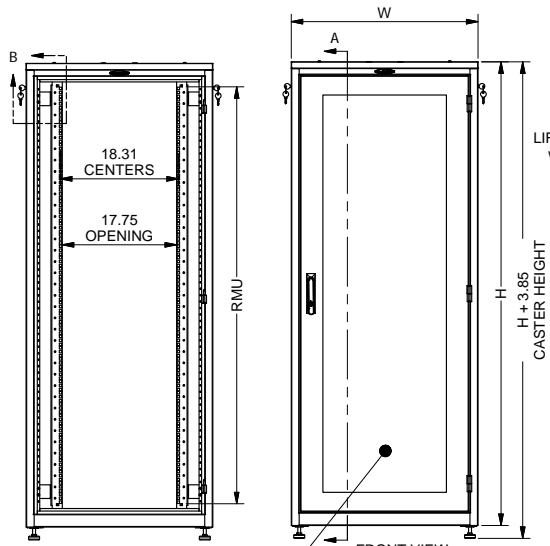
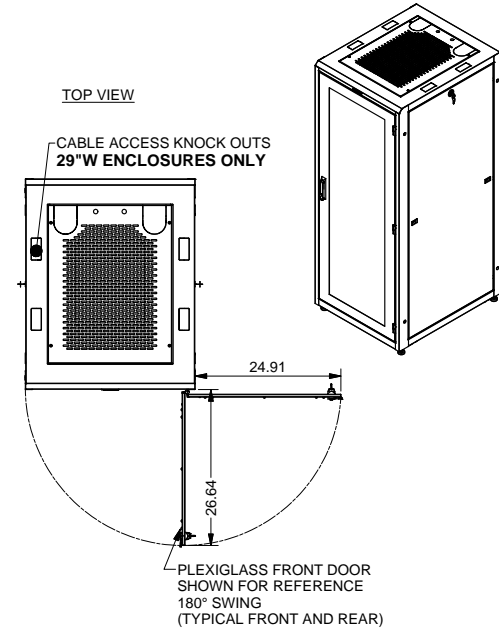
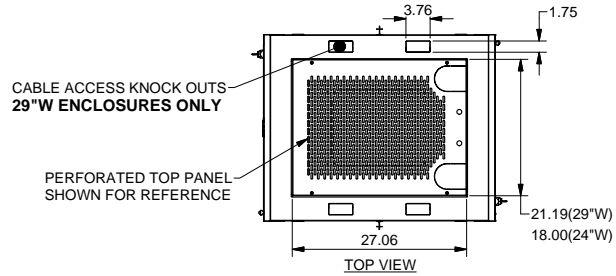
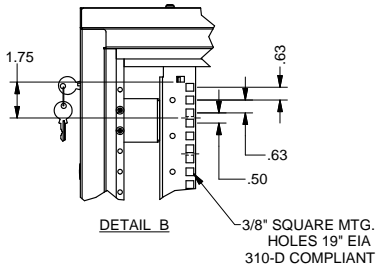
COLOR : DURABLE TEXTURED BLACK POWDER COATING

CONSTRUCTION : FULL WELDED FRAME WITH RECESSED #12 GA CORNER POSTS
 1 PAIR FIXED #12 GA RAILS, 1 PAIR ADJUSTABLE DEPTH #12 GA RAILS
 DOORS #16 C.R.S. & SIDE PANELS LIGHT-WEIGHT ALUMINUM

HARDWARE : PACKAGE OF QTY-50; #12-24 SCREWS -OR- M6 SCREWS W/ CAGE NUTS, INCLUDED.

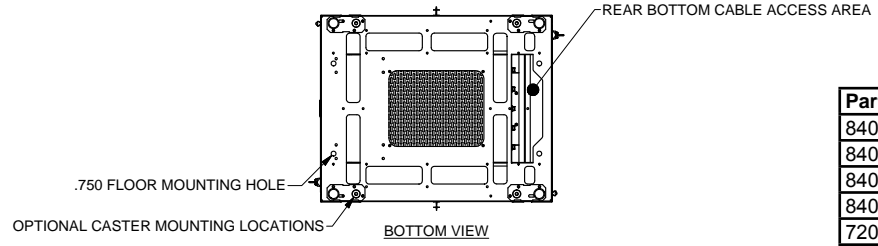


Part No.	Height	Width	Depth	RMU
910EN-3242	91"	32"	42"	48
910EN-3248	91"	32"	48"	48
910EN-4042	91"	40"	42"	48
910EN-4048	91"	40"	48"	48
840EN-3242	84"	32"	42"	45
840EN-3248	84"	32"	48"	45
840EN-4042	84"	40"	42"	45
840EN-4048	84"	40"	48"	45
780EN-3242	78"	32"	42"	42
780EN-3248	78"	32"	48"	42
780EN-4042	78"	40"	42"	42
780EN-4048	78"	40"	48"	42



PLEXI-GLASS FRONT DOOR LIFT OFF & FIELD REVERSIBLE (FRONT AND REAR)

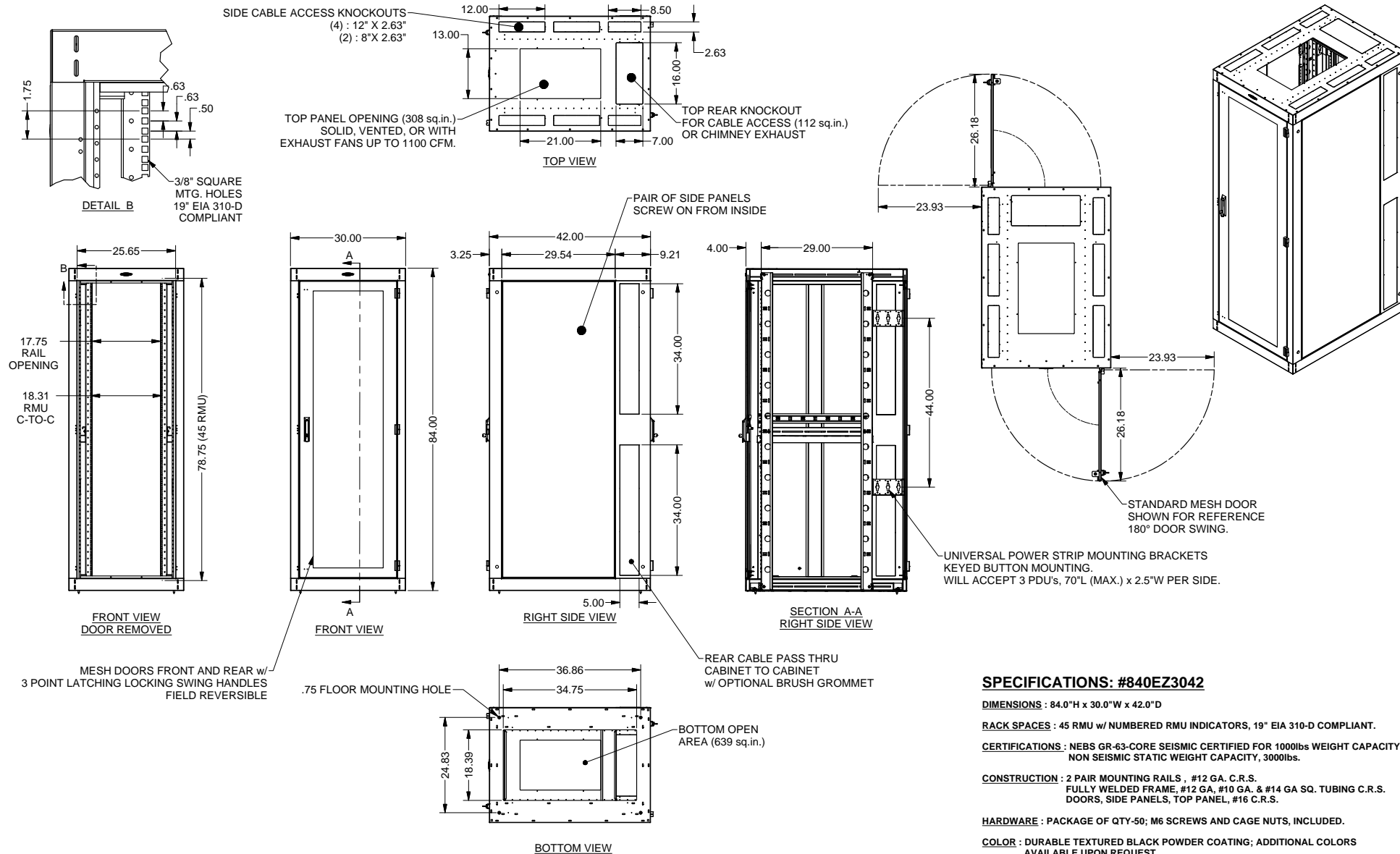
OPTIONAL LEVELING GLIDES 1/2"-13 UNC THREADED HOLES



SPECIFICATIONS:

- RACK SPACES:** 19" EIA 310-D 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:** UL 60950-1 STANDARD FOR I.T. & COMMUNICATIONS EQUIPMENT.
- CONSTRUCTION:** 2 PAIR MOUNTING RAILS, #12 GA. C.R.S. FULLY WELDED FRAME, #16 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



SPECIFICATIONS: #840EZ3042

DIMENSIONS : 84.0"H x 30.0"W x 42.0"D

RACK SPACES : 45 RMU w/ NUMBERED RMU INDICATORS, 19" EIA 310-D COMPLIANT.

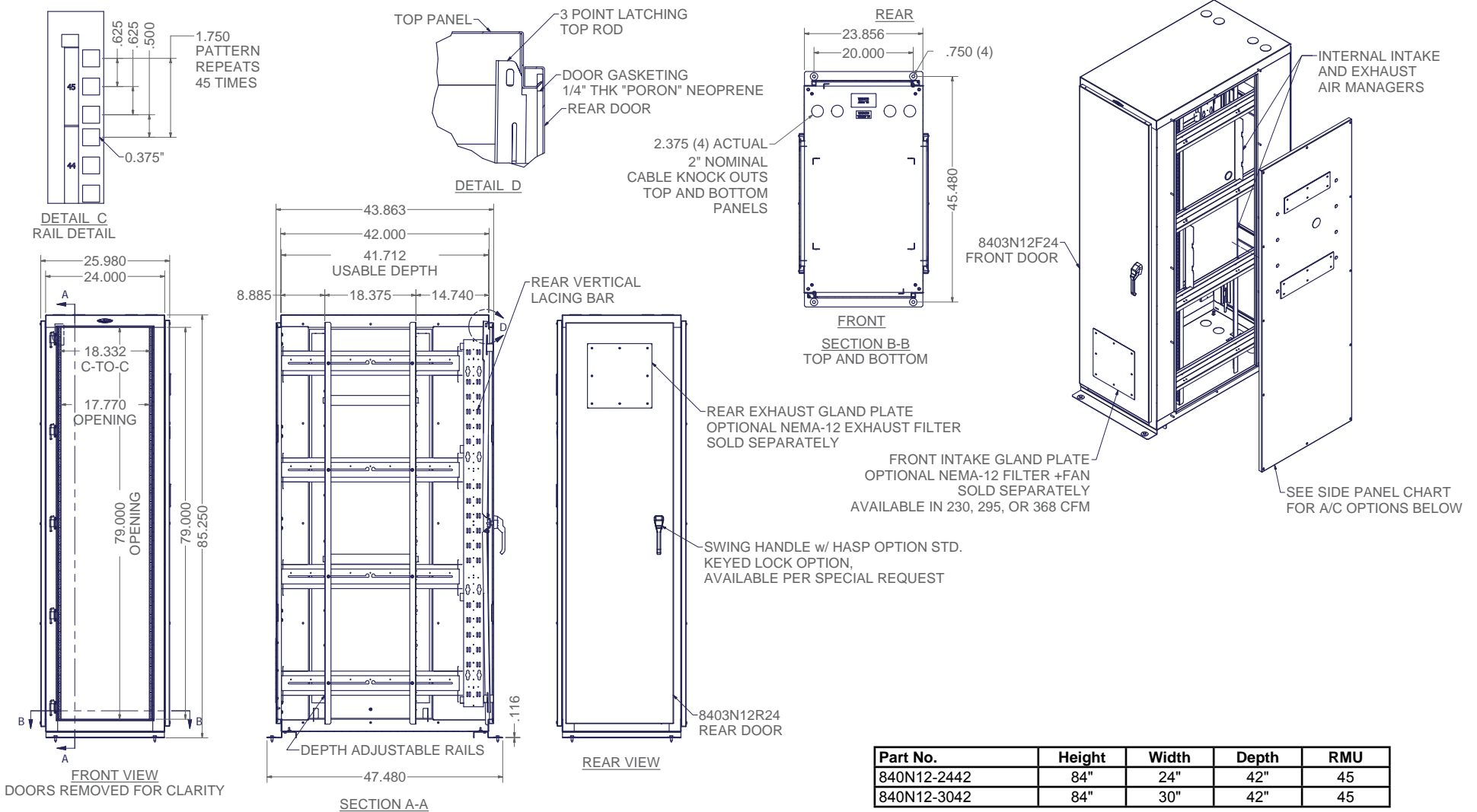
CERTIFICATIONS : NEBS GR-63-CORE SEISMIC CERTIFIED FOR 1000lbs WEIGHT CAPACITY NON SEISMIC STATIC WEIGHT CAPACITY, 3000lbs.

CONSTRUCTION : 2 PAIR MOUNTING RAILS, #12 GA. C.R.S. FULLY WELDED FRAME, #12 GA. #10 GA. & #14 GA SQ. TUBING C.R.S. DOORS, SIDE PANELS, TOP PANEL, #16 C.R.S.

HARDWARE : PACKAGE OF QTY-50; M6 SCREWS AND CAGE NUTS, INCLUDED.

COLOR : DURABLE TEXTURED BLACK POWDER COATING; ADDITIONAL COLORS AVAILABLE UPON REQUEST

T NEMA 12K



PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
1.75-FP19	137	4802E-MC24	118	4PM6-298FO	108	7203E-24	116	7208WS	101
1.75FP19BG	137	4803E-24	116	4PM6-29-8FR	108	7203E-29	116	7209-N	130
1.75-FPTL19	137	4803E-SF24	118	4PM6-32	108	7204E-24	117	7209-N4	130
14.00-FP19	137	4804E-24	117	4PM6-36	108	7204E-29	117	7210-32ELS	121
14.00-FPTL19	137	4805-E2P	126	4PSPV24-36	112	7205-ES1P	126	7210-36ELS	121
1984-KM	114	4810-32ELS	121	5.25-FP19	137	7205-ES2P	126	7211-32ELL	121
1984LR	114	4810-36ELS	121	5.25-FPTL19	137	7206-14	128	7211-36ELL	121
1984ST09	114	4811-32ELL	121	6001E-2432	76	7206-BT	128	7215	132
1984ST15	114	4811-36ELL	121	6002E-24	116	7206-DR	129	7215-20AR	132
1984-VCM10	114	4P108-1224-29	109	6002E-M24	116	7206-EIA	128	7215-20ARTLP	132
1984-VCM10C	114	4P1224-24	108	6003E-24	116	7206-FM	128	7215-30A	132
2319	126	4P1224-29	108	6004E-24	117	7206-FR-A18	128	7215-EURO	132
2319-F	126	4P1224-32	108	6005-E2P	126	7206-FR-A28HD	128	7215-S	132
2319F1.175	126	4P1224-36	108	6010-32ELS	121	7206-FR-A32HD	128	7217-04	101
3.50-FP19	137	4P36-1224-29	109	6011-32ELL	121	7206-FR-ADHD	128	7217FT	142
3.50FP19BG	137	4P48-1224-29	109	7.00-FP19	137	7206-FR-AHD	128	7217FT-230	142
3.50-FPTL19	137	4P60-1224-29	109	7.00-FPTL19	137	7206-FRSLA300	129	7217FT-3	142
3001E-2432	80	4P66-1224-29	109	7201E-2432	74	7206-FRSL-ADHD	129	7217FT-3-230	142
3002E-24	116	4P72-1224-29	109	7201E-2436	72	7206-FRSL-AHD	129	7217FT-6	142
3002E-M24	116	4P96-1224-29	109	7201E-2932	70	7206-MKM	129	7217FT-6-230	142
3003E-24	116	4PBK12	112	7201E-2936	68	7206-PKB-MT	129	7217FT-9	142
3004E-24	117	4PBK16	112	7202E-24	116	7206-SL	129	7217FT-9-230	142
3005-E2P	126	4PBK24-36	112	7202E-24PV	117	7208-4PHD	111	7217LE2	142
3010-32ELS	121	4PBSF24-36	112	7202E-24PVM	117	7208-E	130	7217LE3	142
3011-32ELL	121	4PHD29	111	7202E-29	116	7208-EALL	130	7217WS	101
4801E-2432	78	4PLRBV4-8	112	7202E-29PV	117	7208-EHD	130	7218-24	132
4801ES-2442	46	4PM6-24	108	7202E-29PVM	117	7208-EN	130	7219	132
4802E-24	116	4PM6-29	108	7202E-M24	116	7208-ES	130	7219-20AR	132
4802E-M24	116	4PM6-29-5FR	108	7202E-M29	116	7208WD	101	7219-SR14	132

T INDEX

PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
72E24EXT4	123	8401ES-3042	34	8410-36ELS	121	AM-FTES24	139	BP-ES	125
72E29EXT4	123	8401ES-3048	30	8410-36EVS	84	AM-FTES30	139	BP-ES24B	125
7801ES-2442	44	8401EZ-3042	84	8411-32ELL	121	AM-HFES	139	BP-ES29B	125
7801ES-2448	40	8402E-24	116	8411-36ELL	121	AM-HFFTES24	139	BPF24	125
7801ES-3042	42	8402E-24PV	117	84E24EXT4	123	AM-HFFTES30	139	BPF29	125
7801ES-3048	38	8402E-24PVM	117	84E29EXT4	123	AT1	130	BPS24	125
7802E-24SM	118	8402E-24SM	118	9101ES-2442	28	AT2	130	BPS29	125
7802E-29SM	118	8402E-29	116	9101ES-2448	24	BGRK24	139	BPSES2442	123
7802E-M24	116	8402E-29PV	117	9101ES-3042	26	BGRK30	139	BPSES2448	123
7802E-MC24	118	8402E-29PVM	117	9101ES-3048	22	BGRK-32EN	139	BPSES3042	123
7802E-MC29	118	8402E-29SM	118	9102E-24SM	118	BGRK-40EN	139	BPSES3048	123
7803E-24	116	8402E-M24	116	9102E-29SM	118	BGRK91-24	139	BS2-CPUBKT	100
7803E-29	116	8402E-M29	116	9102E-MC24	118	BGRK91-30	139	BS2-TM3R	100
7803E-SF24	118	8402E-MC24	118	9102E-MC29	118	BGRK91-32EN	139	BS2-TM3S	100
7803E-SF29	118	8402E-MC24	118	9103E-24	116	BGRK91-40EN	139	BS2-TPM-818	99
7803E-SS24	119	8402E-MC29	118	9103E-29	116	BGS-78	149	BS2-TPMC-818	99
7803E-SS29	119	8402E-MC29	118	9103E-SF24	118	BGS-84	149	BS2-UCB3	100
7805-ES1P	126	8402EZ-M30	84	9103E-SF29	118	BGS-84-48	149	BS2-UCB5	100
7805-ES2P	126	8403E-24	116	9103E-SS24	119	BGS-91	149	BS2-UCBBKT	100
7810-36ELS	121	8403E-29	116	9103E-SS29	119	BGS-91-48	149	BS2-WMR-24	99
7811-36ELL	121	8403E-SF24	118	9105ES1P	126	BGT	149	CBB-19	101
8.75-FP19	137	8403E-SF29	118	9105-ES2P	126	BPB24	125	CBB-19	131
8.75-FPTL19	137	8403E-SS24	119	9110-36ELS	121	BPB29	125	CBB-30	131
8401E-2432	66	8403E-SS29	119	9111-36ELL	121	BPBES2442	123	CBB-48	131
8401E-2436	64	8404E-24	117	ACD780ES	141	BPBES2448	123	CBB-60	131
8401E-2932	62	8404E-29	117	ACD840ES	141	BPBES3042	123	CBB-72	131
8401ES-2448	32	8405-ES1P	126	ACD910ES	141	BPBES3048	123	CBB-78	131
8401E-2936	60	8405-ES2P	126	AK101	127	BP-EB	125	CH-02	119
8401ES-2442	36	8410-32ELS	121	AM-ES	139	BP-EF	125	CH-02	119

PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
CH-04	119	ECD48	138	FTBKT90	142	GL24WS-PS	93	GL480E-2432S	78
CM-01	151	ECDHF48	138	FTC101	142	GL24WS-PV	93	GL480ES-2442MS	46
CM-03	146	ENC-K24	148	FTC103	142	GL24WS-SS	93	GL480N12	97
CM-04	147	ENSAB11	140	G101	127	GL24WS-SV	93	GL48SR	98
CM-05	147	ENSAB14	140	G101EN	127	GL2500V*	87	GL48SRD	98
CM-06	151	ENSAB14A	140	G101EN2ES	127	GL300E-2432F	80	GL48WD	94
CM-07	147	ENSAB14D	140	G101ES	127	GL300E-2432F10	80	GL48WDM	94
CM-08	147	ENSAB19	140	GL10000V*	87	GL300E-2432P	80	GL48WDS	94
CM-09	147	ENSAB25	140	GL12000V*	87	GL300E-2432S	80	GL48WM	92
CM-10	146	ENSAB7A	140	GL14000V*	87	GL3500V*	87	GL48WMM	92
CM-11	146	ES23K-42	126	GL15WM	95	GL360N12	97	GL48WMS	92
CM-13	146	ESC-K12	148	GL15WMS	95	GL36SR	98	GL48WS-MS	93
CM-14	147	ESF16	112	GL17000V*	87	GL36SRD	98	GL48WS-MV	93
CM-15	147	ESF24-29	112	GL20000V*	87	GL36WD	94	GL48WS-PS	93
CM-16	147	ESSAB11	140	GL240N12	97	GL36WDM	94	GL48WS-PV	93
CM-17	147	ESSAB14	140	GL2418WM	92	GL36WDS	94	GL48WS-SS	93
CM-19	146	ESSAB14D	140	GL2418WMM	92	GL36WM	92	GL48WS-SV	93
CM-425	146	ESSAB19	140	GL2418WMS	92	GL36WMM	92	GL6000V*	87
CM-44	146	FFK1	101	GL24SR	98	GL36WMS	92	GL600E-2432F	76
CM-47	148	FFK2	124	GL24SRD	98	GL36WS-MS	93	GL600E-2432F10	76
CMP	146	FFKN12-A1	87	GL24WD	94	GL36WS-MV	93	GL600E-2432P	76
CMP-8	146	FFKN12-A2	87	GL24WDM	94	GL36WS-PS	93	GL600E-2432S	76
CMR-45U	110	FFKN12-A3	87	GL24WDS	94	GL36WS-PV	93	GL720E-2432F	74
CMR-45U16	110	FFKN12-A4	97	GL24WE	96	GL36WS-SS	93	GL720E-2432F10	74
DIGITUS BIOMETRICS*	120	FILTER	125	GL24WM	92	GL36WS-SV	93	GL720E-2432P	74
DK1	101	FILTER-09	87	GL24WMM	92	GL4500V*	87	GL720E-2432S	74
DK2	101	FILTER-10	97	GL24WMS	92	GL480E-2432F	78	GL720E-2436F	72
E23K-32	126	FMSBKT	114	GL24WS-MS	93	GL480E-2432F10	78	GL720E-2436F10	72
E23K-36	126	FOAM BLOCKS	141	GL24WS-MV	93	GL480E-2432P	78	GL720E-2436P	72

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T INDEX

PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
GL720E-2436S	72	GL780ES-3042MSS	42	GL840ENT-3248MSS-NS	54	GL84CL3PF	82	GL-EC-48-3246	138
GL720E-2932F	70	GL780ES-3048MS	38	GL840ENT-4042-FK	55	GL910ENT-3242-FK	52	GL-ECFT42	138
GL720E-2932F10	70	GL780ES-3048MSFS	38	GL840ENT-4042SSS	55	GL910ENT-3242MSS	52	GL-ECFT48	138
GL720E-2932P	70	GL780ES-3048MSS	38	GL840ENT-4042SSS-NS	55	GL910ENT-3242MSS-NS	52	GL-ECFT48	138
GL720E-2932S	70	GL8000VHA*	87	GL840ENT-4048-FK	55	GL910ENT-3248-FK	52	GL-ECHF-48-1832	138
GL720E-2936F	68	GL840E-2432F	66	GL840ENT-4048SSS	55	GL910ENT-3248MSS	52	GL-ECHF-48-3246	138
GL720E-2936F10	68	GL840E-2432F10	66	GL840ENT-4048SSS-NS	55	GL910ENT-3248MSS-NS	52	GL-ECHFFT48	138
GL720E-2936P	68	GL840E-2432P	66	GL840ES-2442MS	36	GL910ENT-4042-FK	53	GL-ECHFFT48	138
GL720E-2936S	68	GL840E-2432S	66	GL840ES-2442MSFS	36	GL910ENT-4042SSS	53	GL-EG	149
GL780ENT-3242-FK	56	GL840E-2436F	64	GL840ES-2442MSS	36	GL910ENT-4042SSS-NS	53	GLHL10009CP*	136
GL780ENT-3242MSS	56	GL840E-2436MCP	64	GL840ES-2448MS	32	GL910ENT-4048-FK	53	GLHL10031CP*	136
GL780ENT-3242MSS-NS	56	GL840E-2436MP	64	GL840ES-2448MSFS	32	GL910ENT-4048SSS	53	GLHL10033CP*	136
GL780ENT-3248-FK	56	GL840E-2436MSP	64	GL840ES-2448MSS	32	GL910ENT-4048SSS-NS	53	GLHL10035CP*	136
GL780ENT-3248MSS	56	GL840E-2436P	64	GL840ES-3042MS	34	GL910ES-2442MS	28	GLHL10038CP*	136
GL780ENT-3248MSS-NS	56	GL840E-2932F	62	GL840ES-3042MSS	34	GL910ES-2442MSS	28	GLHL10112CP*	136
GL780ENT-4042-FK	57	GL840E-2932F10	62	GL840ES-3048MS	30	GL910ES-2448MS	24	GLHL10113CP*	136
GL780ENT-4042SSS	57	GL840E-2932P	62	GL840ES-3048MSS	30	GL910ES-2448MSS	24	GL-KEYS	119
GL780ENT-4042SSS-NS	57	GL840E-2932S	62	GL840EZ-3042S	84	GL910ES-3042MS	26	GLKL10012CP*	135
GL780ENT-4048-FK	57	GL840E-2936F	60	GL840N12-2442-SA	87	GL910ES-3042MSS	26	GLKL10013CP*	135
GL780ENT-4048SSS	57	GL840E-2936F10	60	GL840N12-2442-SB	87	GL910ES-3048MS	22	GLKL10077CP*	135
GL780ENT-4048SSS-NS	57	GL840E-2936MCP	60	GL840N12-2442-SC	87	GL910ES-3048MSS	22	GLKL1010CP*	135
GL780ES-2442MS	44	GL840E-2936MP	60	GL840N12-2442-SS	87	GLAL10108-001CP*	136	GLKL20100CP*	135
GL780ES-2442MSFS	44	GL840E-2936MSP	60	GL840N12-3042-SA	87	GLAL10108-002CP*	136	GLKL20101CP*	135
GL780ES-2442MSS	44	GL840E-2936P	60	GL840N12-3042-SB	87	GLAL10108-003CP*	136	GLKL2020CP*	135
GL780ES-2448MS	40	GL840ENT-3242-FK	54	GL840N12-3042-SC	87	GLAL10126CP*	136	GLKL2030CP*	135
GL780ES-2448MSFS	40	GL840ENT-3242MSS	54	GL840N12-3042-SS	87	GLAL10127CP*	136	GLKL2040CP*	135
GL780ES-2448MSS	40	GL840ENT-3242MSS-NS	54	GL84CL2MM	83	GL-EC-42-1832	138	GLKL3030CP*	135
GL780ES-3042MS	42	GL840ENT-3248-FK	54	GL84CL2PF	83	GL-EC-42-3246	138	GLKL40001CP*	135
GL780ES-3042MSFS	42	GL840ENT-3248MSS	54	GL84CL3MM	82	GL-EC-48-1832	138	GLKL40003CP*	135

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PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.	PART NO.	PAGE NO.
GL-RMUTA	114	HCM-D36	149	RGB-78	131	TPEN-F	122	VCT-78C	149
GL-RMUTD	114	HCM-EN42	149	SC128442	150	TPEN-F10	122	VCT-84	149
GLRR-19108	107	HCM-EN48	149	SC128448	150	TPEN-N	122	VCT-84C	149
GLRR-19108BA	107	HDW-102-50	127	SC68442	150	TPEN-P	122	VCT-91	149
GLRR-1936	107	HDW-104-50	127	SC68448	150	TPES-2F10	122	VCT-91C	149
GLRR-1936BA	107	HDW-105-25	127	SCP8442	150	TPES-2F10-230	122	VD4P1224-2436	112
GLRR-1948	107	HDW-105-50	127	SCP8448	150	TPES-B	122	VD4PHD-2436	111
GLRR-1948BA	107	HDW-106-25	127	TCT24	148	TPES-F	122	VD4PM6-2436	112
GLRR-1960	107	HDW-106-50	127	TCT30	148	TPES-F10	122	VLB-48	151
GLRR-1960BA	107	HLB-32	151	TCT32	148	TPES-F10-230	122	VLB-4832	151
GLRR-1972	107	HLB-36	151	TCT40	148	TPES-F-230	122	VLB-4836	151
GLRR-1972BA	107	LRB-12	148	TPE-242F10	124	TPES-P	122	VLB-72	151
GLRR-1984	106	LRB-12A1	148	TPE-242F10-230	124	TPES-S	122	VLB-7232	151
GLRR-1984BA	106	LRB-12A2	148	TPE-24F	124	VCM12-FO	143	VLB-7236	151
GLRR-1984BA-2-5FO	106	LRB-24	148	TPE-24F10	124	VCM12-FO-ER	112	VLB-78	151
GLRR-1984BA-2-5FR	106	LRB-24A1	148	TPE-24F10-230	124	VCM5-BKT	143	VLB-7836	151
GLRR-1984BA-2-8FO	106	LRB-24A2	148	TPE-24F-230	124	VCM5-CR	143	VLB-84	151
GLRR-1984BA-2-8FR	106	MESH300E-24	119	TPE-24P	124	VCM5-FO	143	VLB-8432	151
GLRR-1984BA-5FO	106	MESH480E-24	119	TPE-24S	124	VCM5-FO-ER	112	VLB-8436	151
GLRR-1984BA-5FR	106	MESH600E-24	119	TPE-292F10	124	VCM5-FR	143	VLB-91	151
GLRR-1984BA-8FO	106	MESH720E-24	119	TPE-292F10-230	124	VCM5-HNG	143	VLB-9136	151
GLRR-1984BA-8FR	106	MESH720E-29	119	TPE-29F	124	VCM5-SL	143	VSBK6-8	112
GLRR-1996	107	MESH840E-24	119	TPE-29F10	124	VCM8-BKT	143	VSBK9-14	112
GLRR-1996BA	107	MESH840E-29	119	TPE-29F10-230	124	VCM8-FO	143	WR2	96
GLRR-2384	106	OSRK	150	TPE-29F-230	124	VCM8-FO-ER	112	WR4	96
GLRR-2384BA	106	PDU1	131	TPE-29P	124	VCM8-FR	143	WS-22	101
GR101	131	POLARGY PANELS*	141	TPE-29S	124	VCM8-SL	143	ZR1	131
GR102	101	PSBKE	131	TPEN-2F10	122	VCM8-WR	143	ZR2	131
GR102	131	PSBKEXT	123	TPEN-B	122	VCT-78	149		

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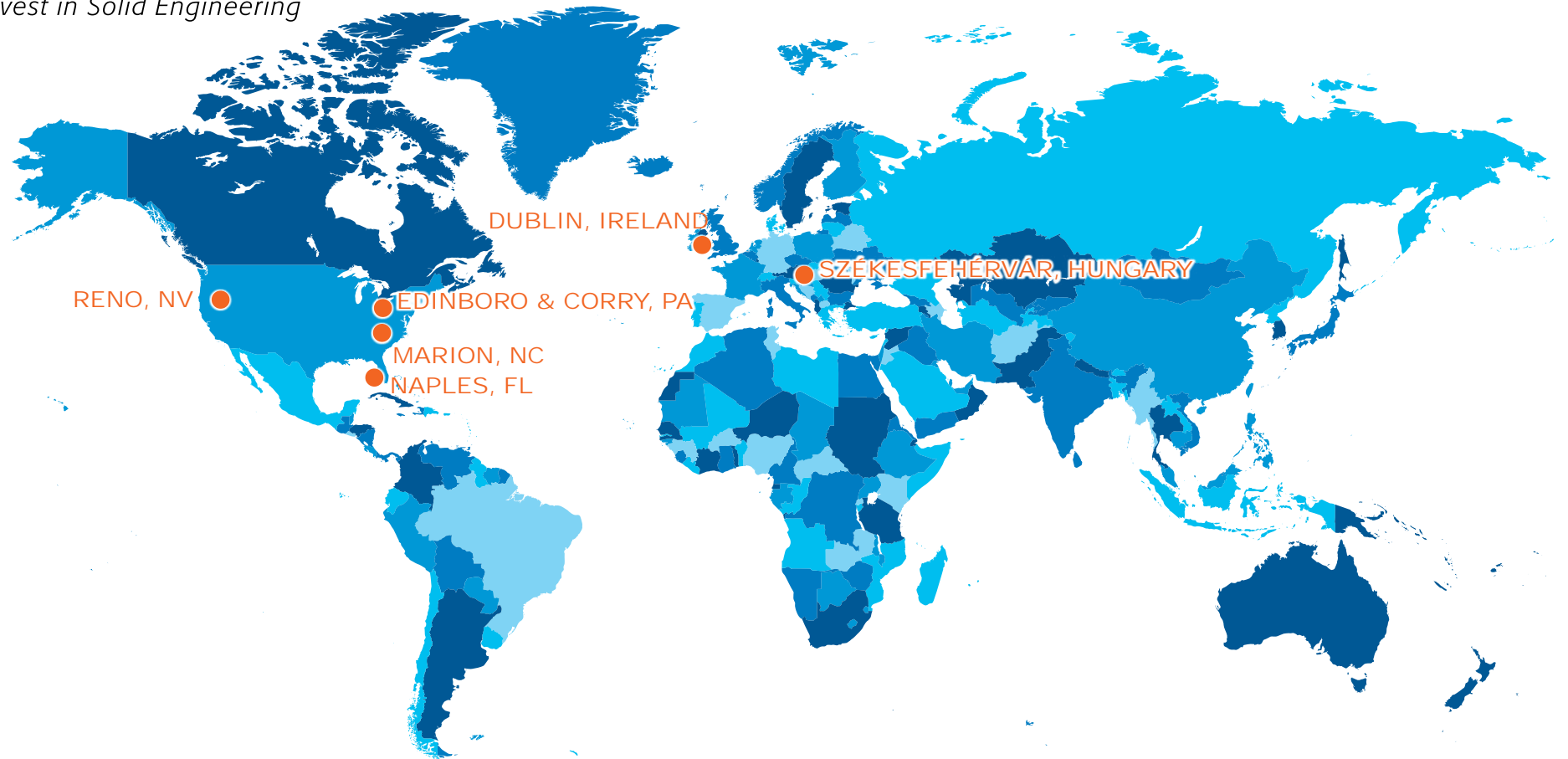
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