Signature Solutions ...

IT Infrastructure Solutions

CHATSWORTH PRODUCTS

At Chatsworth Products (CPI), it is our mission to provide solutions that solve your IT infrastructure challenges and provide a higher return on your investment. As a global manufacturer of voice, data and security products as well as service solutions that optimise, store and secure technology equipment, CPI delivers innovation, configurability, quality and value with a breadth of integrated system components covering virtually all physical layer needs. Unequalled customer service and technical support, as well as a global network of industry-leading distributors, assures customers that CPI is dedicated to delivering products and services designed to meet and exceed their needs.

Visit our CPI showroom display at the Bourne End Office.

History

Over twenty years ago, CPI began when 90 employees joined together and purchased the Dracon Division of Harris Corporation using an Employee Stock Ownership Plan (ESOP). With deregulation in the telecommunications industry and technological innovation in voice and data equipment, CPI focused on the explosive needs of the information technology market to manage IT infrastructure equipment. Today, CPI is a leading global supplier of integrated solutions that optimise technology equipment. This pioneering spirit is what motivates CPI to delight the customer by responding rapidly with standard and custom solutions that give them a higher return on their investment.

Industry Leadership

Offering quality products and customised solutions, CPI leads the industry in innovation, configurability and value with an array of integrated system components that cover virtually all physical layer needs. Our organisation's knowledge and expertise allows us to communicate and collaborate with IT professionals, architects, contractors, engineers, OEM equipment manufacturers, integrators and end users, working to create custom IT infrastructure solutions.

Global Availability

Today's IT infrastructure needs aren't limited by borders. CPI understands the need to give customers high-quality products and services that they deserve on a global scale. Leveraging the unique ability to provide a wide breadth of standard and customised IT solutions, CPI offers real value with innovative and quality products. Global manufacturing allows faster delivery and an overall more cost-effective solution to meet busy scheduling requirements. Whether it's a multi-national organisation or local company, CPI's solutions will optimise IT operations and improve the bottom line.

Headquartered in the United States, CPI operates global offices within the US, United Kingdom, Mexico, Canada, China, and the Middle East.

Locations

Regional Offices:

Europe
Cavendish House
Bourne End Business Park
Cores End Road
Bourne End
Buckinghamshire, UK
+44-1628-524-834

Middle East & Africa
5WA-103, West Wing,
Dubai Airport Free Zone
Dubai, United Arab Emirates
+971-4-2602125

Saudi Arabia
Level 6, Akaria Plaza
North Wing, Gate D,
Olaya Street, Riyadh
+996-11-4868322

Corporate Office: Westlake Village, Calif.

International Offices: Buckinghamshire, UK; Dubai, UAE; Riyadh, Saudi Arabia; Mexico City, Mexico: Shanghai, China; Toronto, Canada

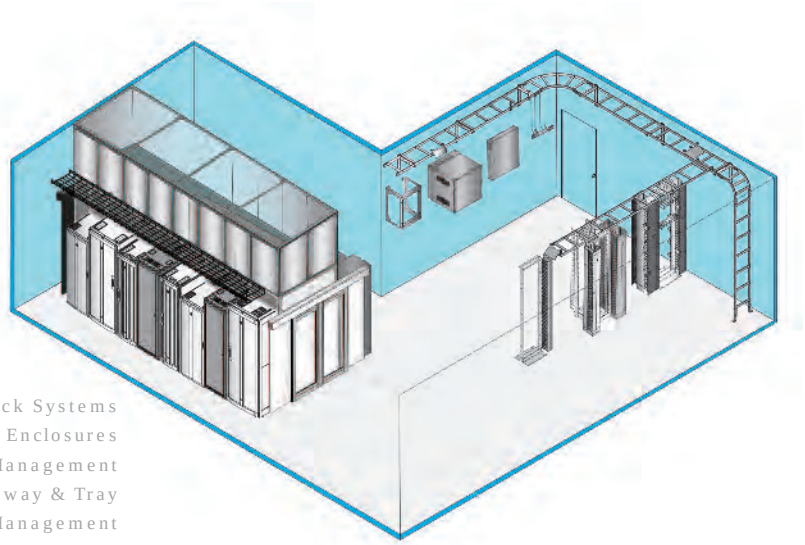
Manufacturing Facilities

CPI's manufacturing facilities are located in the US, Asia and Europe.

Why Choose CPI?

Flexibility, Availability and Reliability

As an industry leader, CPI Products deliver superior structural support that exceeds customer expectations through innovation, function and performance. CPI's unequalled customer service and technical support assures our customers that CPI is dedicated to delivering IT infrastructure solutions designed to meet their needs.



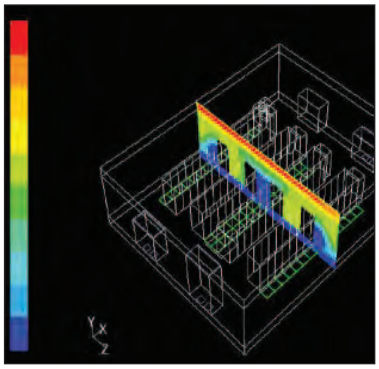
Rack Systems
Cabinet, Containment & Enclosures
Cable Management
Cable Runway & Tray
Power Management
Thermal Management
Environmental Monitoring & Security

Helping You Achieve Optimum Results

Constantly increasing heat loads are the main challenge in many data centres. Attempting to eliminate hot spots by adding supplemental cooling may be a costly and unnecessary step. High density computer and storage equipment requires heat containment to achieve cooling system efficiency. CPI offers a proven solution which effectively isolates hot exhaust air to provide a uniform room temperature. When combined with many standard chilled water cooling systems, CPI Passive Cooling Solutions will increase cooling system efficiency, which in turn reduces PUE and opens the door for increased "free cooling" hours with economisers.

CPI offers the tools and assistance needed to help you develop high performance, enterprise data centre designs that tightly integrate CPI Products into a total design approach, delivering dramatically lower operating costs and data centre optimisation.

- Optimise your design with Computational Fluid Dynamics (CFD) analysis – Using state-of-the-art three-dimensional software, CPI provides simulation and analysis of your data centre's airflow and temperature patterns.
- Plan your space with AutoCAD plan and elevation drawings – For customers using AutoCAD to design layouts, CPI supplies CAD Shapes of popular CPI Products featuring top, front, side and isometric views. Visio images and BIM Autodesk® Revit® drawings are also available.
- Configure your cabinet with the Product Configurator – CPI's easy-to-use online Product Configurator guides you through the steps and selections necessary to create personalised data centre solutions.
- Answer unique requirements with a customised solution – CPI will work with you to achieve a solution that fits your personalised data centre and equipment needs.



Computational Fluid Dynamics (CFD)

BIM Autodesk® Revit® drawing

CPI Product Configurator

CPI Passive Cooling® Solutions - The Simply Efficient™ Choice

CPI Passive Cooling® Solutions offer innovative techniques that allow you to manage the flow of air throughout your data centre without the need for added cooling system units, in-row air conditioners or risky liquid cooling solutions. From small applications with heat loads of 2 kW per cabinet to large data centres with high heat densities up to 32 kW, CPI Passive Cooling Solutions offer smart, proven technology to reduce your data centre cooling cost. As the Simply Efficient™ choice, CPI Passive Cooling Solutions allow you to meet tiered requirements for operation of your IT equipment and to deploy the latest servers, switches and blade servers from HP, IBM, Dell, Cisco, Juniper Networks and Brocade with confidence.

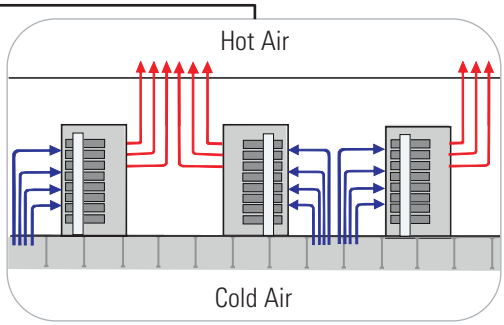
How CPI Passive Cooling Works

- Controls Airflow – CPI Passive Cooling Solutions control airflow through the cabinet using a specific combination of thermal management accessories. Solutions are available for traditional hot aisle/cold aisle environments and containment.
- Eliminates Re-circulation – CPI Passive Cooling Solutions create a one-way airflow pathway through the cabinet that eliminates the mixing of hot and cold air. The high-density solution, which includes a Vertical Exhaust Duct to isolate hot air from the room, guarantees heat transfer directly from equipment to the cooling unit.
- Increases Cabinet Density – With a Vertical Exhaust Duct, there is no hot aisle, so cabinet heat loads are not limited by the amount of air that can be delivered through the access floor tiles positioned directly in front of the cabinet.
- Uses Existing Standard Cooling Equipment – If the cooling capacity of your existing chilled water computer room air conditioners (CRACs) or air handlers (CRAHs) exceeds your heat load, there is no need to add expensive supplemental in-row cooling.

Low Heat Density

Combine:

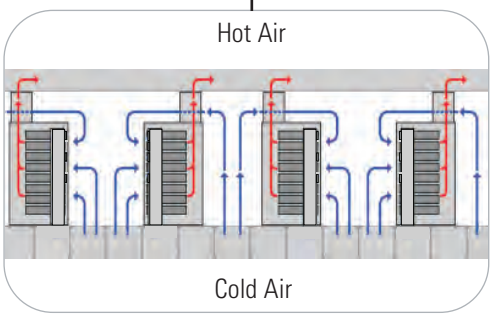
- GF-Series GlobalFrame® Gen 2 with:
  - Perforated Front Door
  - Perforated Rear Door
  - Solid Side Panels
  - Solid Top Panel
- Bottom Panel
- Air Dam
- Equipment Rail Grommet Kit
- Snap-In Filler Panels
- KoldLok® Raised Floor Grommet



High Heat Density

Combine:

- GF-Series GlobalFrame® Gen 2 with:
  - Perforated Front Door
  - Solid Rear Door
  - Solid Side Panels
  - Solid Top Panel and Vertical Exhaust Duct
  - Bottom Panel
  - Rear Door Sealing Kit
- Air Dam
- Equipment Rail Grommet Kit
- Snap-In Filler Panels
- KoldLok® Raised Floor Grommet



Advantages of using CPI Passive Cooling® Solutions

- Eliminates hot spots – isolating and removing hot exhaust air creates a uniform temperature in the room.
- No additional power or redundancy requirements – CPI Passive Cooling Solutions include no active components.
- Improves cooling system utilisation – capturing hot exhaust air means higher temperature return air, which improves utilisation of chilled water CRACs and CRAHs.
- Increases "free cooling" hours – isolating hot air allows you to confidently raise the supply air temperature, which allows you to raise the chilled water temperature and increases potential free cooling hours in most locations.
- Lowers your operating costs – the combined effect of better cooling system utilisation and more free cooling hours is lower operating cost.
- Lowers your Power Usage Effectiveness (PUE) – by enabling the use of economisers for free cooling, you lower your PUE.

How to Configure CPI Cabinets with CPI Passive Cooling® Solutions

CPI Passive Cooling® Solutions are available for the GF-Series GlobalFrame® Gen 2 Cabinet. Depending on the environment, simply add certain accessories to a base cabinet to control airflow. Recommended combinations are listed below.

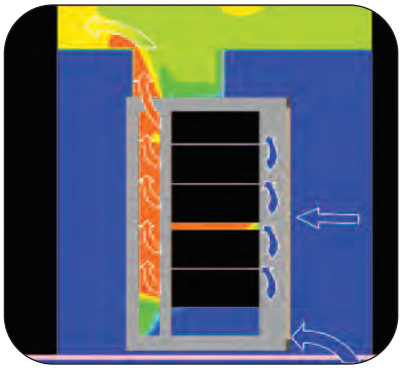
Solutions for Traditional Hot Aisle/Cold Aisle Environment or Containment

- GF-Series GlobalFrame Gen 2 Cabinet with solid top and side panels and perforated front and rear doors allows front-to-rear airflow through the cabinet.
- Bottom Panel, Air Dam, Equipment Rail Grommet Kit and Snap-In Filler Panels create a front/rear barrier around equipment to separate hot and cold air within the cabinet.

Patented Vertical Exhaust Duct for Hot Air Containment

- GF-Series GlobalFrame Gen 2 Cabinet with solid top panel and Vertical Exhaust Duct, solid bottom panel, solid side panels, perforated front door and solid rear door with seal allows front-to-top airflow through the cabinet.
- Air Dam, Equipment Rail Grommet Kit and Snap-In Filler Panels create a front/rear barrier around equipment to separate hot and cold air within the cabinet.
- Air Director acts as a turning vane to guide hot air upward toward the duct when heat loads exceed 15 kW, and the bottom rack-mount spaces hold equipment.

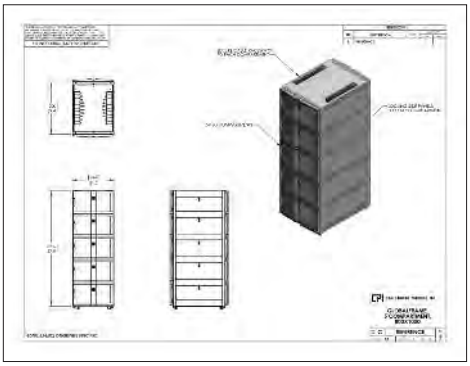
Why Choose a Vertical Exhaust Duct?



Computational Fluid Dynamics (CFD) modeling, which is used to illustrate airflow patterns and temperature strata in the data centre, shows that using CPI Passive Cooling Solutions results in one-way airflow with reliable heat transfer and return of hot air. When compared with traditional hot aisle/cold aisle solutions, using the high-density solution with the Vertical Exhaust Duct effectively isolates hot exhaust air from the room. Room temperature is uniform, and the whole room becomes the source for cool air, allowing you to increase density in your cabinet and use less floor space for the same amount of equipment.

Custom Solutions for Any Environment

Equipment and demands on IT infrastructure change rapidly. We understand this quick-paced environment and make it our goal to find solutions to address these challenges. Unlike most mass produced "cookie-cutter" solutions, CPI's design engineering and manufacturing model allows the flexibility to create and alter products to solve unique problems. CPI's team of specialists can help you address and design a solution to help solve issues with equipment installation, airflow, architectural obstacles, power and cooling limitations and beyond. In fact, you name it, and we can devise a solution. If you need a special design that we don't currently offer, we will work with you to create a new solution to fit your requirements.



CPI can provide you with conceptual drawings and design drawings to take your project from an idea to reality.

GF-Series GlobalFrame® Gen 2 Cabinet System

The GF-Series GlobalFrame® Gen 2 Cabinet System is an industry-standard server and network equipment storage solution for data centre, computer rooms and network facilities.

Available in a select set of industry-standard sizes, GF-Series GlobalFrame features two specific configurations that meet most application requirements. Standard cabinets with perforated front and rear doors support front-to-rear airflow for hot aisle/cold aisle or aisle containment applications. High-density cabinets with perforated front and solid rear doors and a top-mount Vertical Exhaust Duct guide hot exhaust air away from the cabinet to support a closed return application. Both configurations cover the basics with adjustable depth Z-shaped mounting rails that help block bypass airflow around equipment, cable openings in the top panels that are large enough for high-amperage PDU power plugs, casters to easily position the cabinet and locking doors and side panels to secure equipment.

Additionally, CPI's second generation GF-Series GlobalFrame features new size and finish options, enhanced panels and doors and smarter airflow management. The frame is now available in a standard 52U height, 700 mm width and 1100 mm depth to maximise space utilisation, and a Glacier White finish that reflects more light. Maximum front-to-rear rail depths are increased to support deeper equipment. Top and bottom panels include snap-on plastic grommets to seal cable openings, and perforated areas on the doors are 78% open to maximise airflow. The improved Air Dam accessory (ordered separately), creates an airflow barrier around the rails to block bypass air inside the cabinet and allows rails to be adjusted to any depth.

Combine the GF-Series GlobalFrame with thermal and cable management accessories to create a solution that fits your exact needs.

Cabinet Specifications:

- Available in four heights, three widths and five depths
- Provides front and rear support for 19"W (482.6 mm) EIA rack-mount equipment and shelves
- Adjustable depth, rails slide front-to-back
- Marks on frame for easy vertical alignment
- 1-3/4"H (44.45 mm) U spacing, marked and numbered
- 19"W, EIA-310-E Universal vertical hole spacing
- Load capacity for 6-slide frame (per UL2416):
  - 3000 lb (1360 kg), static load on leveling feet
  - 2250 lb (1020 kg), rolling load on casters
  - 2000 lb (907.2 kg), shipping on shock pallet
- Load capacity for 4-slide frame (per UL2416):
  - 2500 lb (1134 kg), static load on leveling feet
  - 2000 lb (907.2 kg), rolling load on casters

Cabinet Includes:

- Welded steel and bolted aluminum four-post frame
- Equipment mounting rails, two pairs
- Grounding/bonding system and ground lug
- Leveling feet and casters
- Floor attachment brackets
- Baying kit, for 600 mm or 24" spacing
- PDU brackets, one pair, for mounting two vertical CPI PDUs
- Equipment mounting hardware, (50) M6 cage nuts and screws

Certifications:

- EIA-310-E compliant
- UL Listed 2416, NWIN, File #E227626

GF-Series GlobalFrame® Gen 2 Cabinet System

Use the part number configurator below to select a GF-Series GlobalFrame Cabinet. Choose the **H**eight, **W**idth, **D**epth, **S**ide Panel Style, **C**onfiguration, **C**olor, and **F**rame Style. ***Example Cabinet Part Number:*** *GF-1A100-CB*

Complete Product Matrix:
The complete product matrix includes all options available.

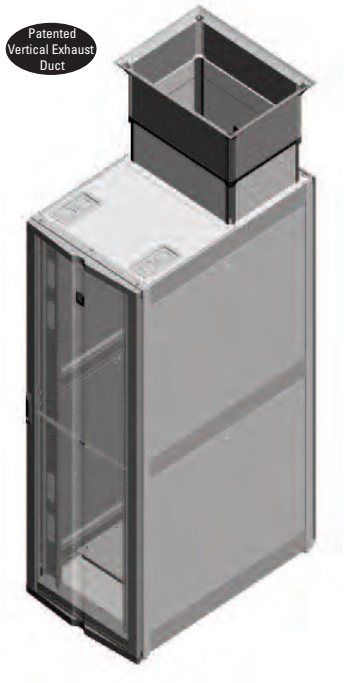
GF	-	H	W	D	S	C	-	C	F

600 mm, 700 mm, 800mm Standard Cabinets

GF-	1. Height			2. Width			3. Depth			4. Side Panels		5. Configuration		-	6. Color		7. Frame	
	U	in.	mm.		in.	mm.		in.	mm.	Description		Description			Description		Description	
1	42	79.4	2016	A	23.6	600	1	31.5	800	0	No Sides	0	Standard Top Panel/Standard Pallet		C	Black	B	6-Slide
2	45	84.6	2149	D	27.6	700	2	39.4	1000	1	One Side				E	Glacier White	A	4-Slide
3	48	89.9	2282	C	31.5	800	3	41.3	1050	2	Two Sides							
4	52	96.9	2460				5	43.3	1100									
							4	47.2	1200									

Notes:
Height includes casters.
Frame depth listed, doors add approximately 4" (100 mm).
Includes Perforated Front and Rear Doors.

600 mm, 700 mm, 800mm Vertical Exhaust Duct Cabinets



GF-	1. Height			2. Width			3. Depth			4. Side Panels		5. Configuration		-	6. Color		7. Frame	
	U	in.	mm.		in.	mm.		in.	mm.	Description		Description			Description		Description	
1	42	79.4	2016	A	23.6	600	3	41.3	1050	0	No Sides	1	Duct 20-34" H (508-863 mm)/ Standard Pallet		C	Black	B	6-Slide
2	45	84.6	2149	D	27.6	700	5	43.3	1100	1	One Side				E	Glacier White	A	4-Slide
3	48	89.9	2282	C	31.5	800	4	47.2	1200	2	Two Sides	2	Duct 34-60" H (863-1523 mm)/ Standard Pallet					
4	52	96.9	2460															

Notes:
Height includes casters. Height does not include Vertical Exhaust Duct.
Frame depth listed, doors add approximately 4" (100 mm).
Includes Perforated Front Door, Solid Rear Door, Vertical Exhaust Duct and Bottom Panel.

600 mm, 700 mm Shock Pallet Combinations

GF-	1. Height			2. Width			3. Depth			4. Side Panels		5. Configuration		-	6. Color		7. Frame	
	U	in.	mm.		in.	mm.		in.	mm.	Description		Description			Description		Description	
1	42	79.4	2016	A	23.6	600	3	41.3	1050	0	No Sides	3	Standard Top Panel/Shock Pallet		C	Black	B	6-Slide
2	45	84.6	2149	D	27.6	700	5	43.3	1100	1	One Side				E	Glacier White	A	4-Slide
				C	31.5	800	4	47.2	1200	2	Two Sides							

Notes:
Height includes casters.
Frame depth listed, doors add approximately 4" (100 mm).
Includes Perforated Front and Rear Doors.
Reusable Packaging.

Specifications/Ordering Notes:
1. Height, Widths, Depths: See tables below for detailed dimensions.
2. Standard Cabinets include a cabinet with perforated front and rear doors, a solid top panel, casters and leveling feet. They ship on a standard pallet.
3. Vertical Exhaust Duct Cabinets include a cabinet with perforated front and solid rear doors, a Vertical Exhaust Duct top panel, casters and leveling feet. They ship on a standard pallet.
4. Shock Pallet Combinations include a cabinet with perforated front and rear doors, a solid top panel, casters and leveling feet. They ship on a shock pallet with reusable packaging and can be loaded with up to 2000 lb (907.2 kg) of equipment, then reshipped to a customer site.

Height Dimensions - in (mm)			
Rack Mount Spaces (U)	Overall with Casters	Frame Only No Casters	Front Opening
42	79.4 (2016)	77.4 (1965)	73.9 (1876)
45	84.6 (2149)	82.6 (2099)	79.1 (2010)
48	89.9 (2282)	87.9 (2232)	84.4 (2143)
52	96.9 (2460)	94.9 (2410)	91.4 (2321)

Casters add approximately 2" (51 mm) to frame and are factory installed on the cabinet.

Width Dimensions - in (mm)			
Nominal Width	Overall with Side Panels	Front Opening	Rack-Mount Panel Width
600	23.6 (600)	19.6 (498)	19 (482.6)
700	27.6 (700)	23.5 (598)	19 (482.6)
800	31.5 (800)	27.5 (698)	19 (482.6)

Mounting Rail clearance is 17.8" (452 mm). Mounting hole spacing is 18.3" (465 mm).

Depth Dimensions - in (mm)			
Nominal Depth	Overall with Doors	Frame Only No Doors	Maximum Rail Depth
800	35.4 (900)	31.5 (800)	29.3 (745)
1000	43.3 (1100)	39.4 (1000)	37.2 (945)
1050	45.3 (1150)	41.3 (1050)	39.2 (995)
1100	47.3 (1200)	43.3 (1100)	41.1 (1045)
1200	51.2 (1300)	47.2 (1200)	45.1 (1145)

Front Door is approximately 2.4"D (61 mm) and Rear Door is approximately 1.5"D (38 mm) with hinges/latches. Minimum rail depth is 7" (178 mm), each rail is 3.5"D (89 mm). Rail depth is reduced when vertical accessories are placed in corners.

GF-Series GlobalFrame® Gen 2 Cabinet System Accessories

Air Dam

Air Dam blocks airflow around the top and sides of equipment. Requires a minimum rail setback of 1.3" (33 mm) from the front of the cabinet frame. Use with Equipment Rail Grommet Kit, Snap-In Filler Panels and Bottom Panel. Attaches to and adjusts with mounting rails.

CPI P/N 39085-XXX

For 6-Slide Frame Style

39085-XXX

Equipment Rail Grommet Kit

Equipment Rail Grommet Kit is a set of plastic grommets that cover cable openings in the equipment mounting rails in wider cabinets to block airflow around equipment. Use with 27.6"W (700 mm) or 31.5" (800 mm) rails.

CPI P/N 39133-001

Equipment Rail Grommet Kit, Pack of 8

39133-001

Snap-In Filler Panel

Snap-In Filler Panel blocks airflow in between equipment by sealing unused rack-mount spaces (U) in the cabinet. Use with Air Dam, Equipment Rail Grommet Kit and Bottom Panel to separate cold and hot air within the cabinet.

CPI P/N 34537-X02

Snap-In Filler Panel, 1U, Pack of 50

CPI P/N 34538-X02

Snap-In Filler Panel, 2U, Pack of 50

34537-XXX

34538-XXX

Bottom Panel

Bottom Panel with grommet sealed cable openings blocks airflow under the cabinet, so hot air is contained in the rear of the cabinet when the cabinet frame is elevated on leveling feet or casters. Grommets are plastic, snap-on, seal cable openings and can be cut to pass cables; unsealed openings are 4.5"W x 9.0"D (114 mm x 228 mm), attaches to the bottom slide on the cabinet; install before rack-mount equipment.

CPI P/N 39080-XXX

Bottom Panel includes: bottom panel, grommets, installation brackets and hardware

39080-XXX

Air Director

Air Director is an angled panel used at the back of cabinets with Vertical Exhaust Duct top panels to guide hot air towards the top of the cabinet. Universal, three piece design adjusts in width to fit all cabinets, attaches to the bottom slide on the cabinet, adjusts in depth

CPI P/N 39107-X00

Air Director includes: director, installation hardware

39107-XXX

Side Panel with Grommet Seal Openings

Side Panel with Grommet Sealed Cable Openings features multiple grommet sealed cable openings that allow cables to enter the side of the cabinet, while containing exhaust air within each cabinet. Two-piece design with top and bottom halves for easier handling; eight cable openings per side, four per half-height panel, one per corner are 4.5"W x 9"D (114 mm x 228 mm) without grommet.

CPI P/N 39037-XXX

Tool-less removal, drop in design with integrated locking spring latch secures the side panel to the cabinet frame. Includes: Side panel (two halves, with grommets), installation hardware, set of keys

39037-XXX

Finger Cable Manager

Finger Cable Manager attaches to the equipment mounting rail, creating a pathway for cables next to the rail and includes plastic T-shaped cable guides (fingers) that organise cables by rack-mount space (U). Attaches to and adjusts with mounting rails, fully compatible with Air Dam. Hinged cover included with managers in wider cabinets, snaps closed to secure cables.

CPI P/N 39112-XXX

For 27.6"W (700 mm) and 315." (800 mm) cabinets. Includes: finger cable manager, cover, installation hardware.

39112-XXX

Other sizes and finishes available.

GF-Series GlobalFrame® Gen 2 Cabinet System Accessories

Full Height PDU Bracket

Full Height Dual PDU Bracket supports two vertical PDUs side-by-side and has multiple slots for CPI Saf-T-Grip® Straps or tie wraps to secure cords to the bracket. It attaches to the frame and adjusts in depth independent of the mounting rails and supports two 2.2"W (51 mm) PDUs side-by-side.

CPI P/N 39086-XXX

Tool-less mounting on 61.25" (1556 mm) or 64.75" (1645 mm) centres Bracket is 4.8"W (121 mm); order Saf-T-Grips or cable ties separately.

39086-XXX

Cable Lashing Bracket

Cable Lashing Bracket creates a simple, separate vertical pathway for a small bundle of cables and has multiple slots for CPI Saf-T-Grip® Straps or tie wraps to secure cables to the bracket. It attaches to the frame and adjusts in depth independent of the mounting rails.

CPI P/N 39124

For 6-Slide Cabinet Frames. Bracket is 1.6"W (41 mm); order Saf-T-Grips or cable ties separately.

39124-XXX

Ring Cable Manager

Ring Cable Manager is independent of the equipment mounting rails, creating a separate vertical pathway for cables and includes plastic cable rings to organise cables. It attaches to the frame and adjusts in depth independent of the mounting rails.

CPI P/N 39088-XXX

For 27.6" (700 mm) Cabinets. Includes: brackets, rings, installation hardware.

CPI P/N 39089-XXX

For 27.6" (700 mm) Cabinets. Includes: brackets, rings, installation hardware.

39088-XXX

Cable Port Brush Kit

Cable Port Brush Kit is a pair of snap-on brush covers that can be used to replace the plastic grommets included with the top, bottom and side panels to form a better seal for cable openings.

CPI P/N 25190-001

Split, two-piece, snap-on design for easy installation around cable bundles, pack of two.

25190-001

Front-to-Rear Cable Manager

Front-to-Rear Cable Manager attaches to the back of equipment mounting rails creating a front-to-rear pathway between the front and rear mounting rails for cables and extends to match depth.

CPI P/N 39077-XXX

For use on 27.6"W (700 mm) and 31.5"W (800 mm) cabinets.

39077-XXX

N-Series TeraFrame® Network Gen 3 Cabinet System

The N-Series TeraFrame® Gen 3 Cabinet System is a network cabinet engineered for high-density cable and thermal management. Network cabinets are unique from server cabinets because they must manage large quantities of cables at both the front and rear of the cabinet, as well as control a mix of front-to-rear and side-to-side airflow through equipment.

To manage network cables, the cabinet includes plastic T-shaped cable management guides (fingers) attached to the front pair of equipment mounting rails with openings that align with each rack mount space (U) for patch cords, and a front-to-back cable manager along the side. Additionally, there is a large, full depth cable opening above both sides of the cabinet covered by a brushsealed or plastic grommet to block bypass airflow.

To control airflow for switches, the cabinet offers a Vertical Exhaust Duct or perforated rear doors, as well as integrated internal air dams in four standard pre-configured solutions: front-to-rear, front-to-top, side-to-rear or side-to-top airflow. Front-to-rear airflow includes air dams that block airflow around equipment and perforated rear doors, so hot air exits the rear of the cabinet. Front-to-top airflow includes a bottom panel, solid rear door and Vertical Exhaust Duct, so hot air exits the top of the cabinet. Side airflow combines a front air dam and a side intake duct. The side intake duct is a full height plastic panel that is trimmed to match the intake on the switch, a universal solution that does not require you to know which switch will be used. Side-to-top airflow combines the Vertical Exhaust Duct kit, air dam and side intake duct with a partially perforated rear door. Cold air enters the front or rear of the cabinet to provide additional cold air for high-density switches, and hot air exits the top of the cabinet.

Cabinet Specifications:

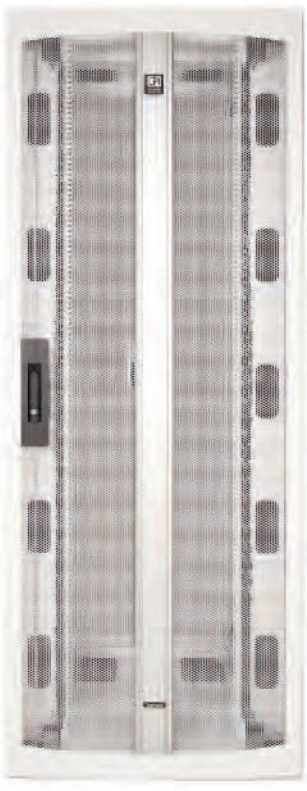
- Available in multiple heights, widths and depths
- Available with integrated cable and thermal management accessories to meet front-to-rear and side airflow requirements
- Includes two pairs of mounting rails in the cabinet; Adjustable depth, rails slide front-to-back, marks on the frame for easy vertical alignment
- Static load rating: 2500 (1134 kg) on leveling feet

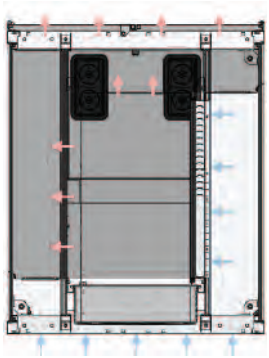
Cabinet Includes:

- (1) Welded steel and bolted aluminum four-post Frame
- (2) Equipment Mounting Rails, Pairs
- (1) Perforated Front Door with Swing Handle
- (1) Solid, Perforated or partially Perforated Rear Door options
- (1) Top Panel, two full-depth brush sealed or grommeted cable openings
- (4) Leveler Feet, Transport Casters and Floor attachment brackets
- (1) Ground System and Ground Lug
- (1) Baying Kit
- (1) PDU brackets, one pair, for two 2.2"W (56 mm) vertical CPI PDUs
- (1) Bag of 25 Each M6 Cage Nuts and Screws (square-punched rails)
- (1) Bag of 50 Each #12-24 Rack Channel Mounting Screws (tapped rails)

Certifications:

- EIA-310-E compliant
- UL Listed 2416, NWIN, File #E227626

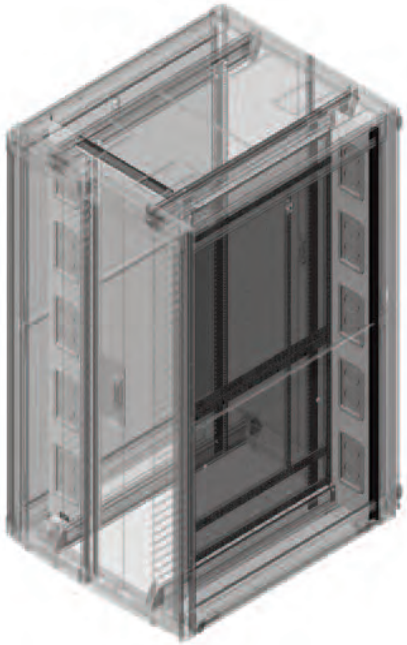




Front of Cabinet,
Side-To-Rear Airflow

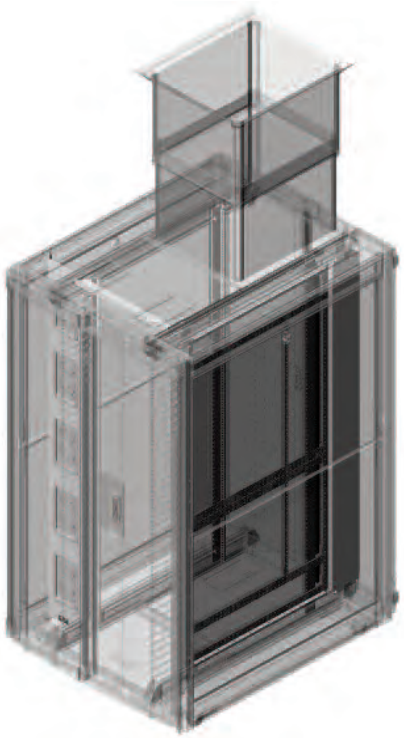
N-Series GlobalFrame Gen 2 Cabinet Configuration Styles:

Front-To-Rear Airflow - Example P/N: NX7X-XX3X-X4X-X
Combine Front Air Dams with Perforated Rear Door and Standard Top Panel. Front Air Dams block airflow around the sides of equipment.



Side-To-Rear Airflow - Example P/N: NX5X-XX3X-X4X-X
Combine Side Intake Duct with Perforated Rear Door and Standard Top Panel. Side Intake Duct allows cold air to enter either side of a switch.

Front-To-Top Airflow - Example P/N: NX7X-XX5X-X5X-X
Combine Front Air Dams with Solid Metal Rear Door and Vertical Exhaust Duct Top Panel to remove hot air through the top of the cabinet.



Side-To-Top Airflow - Example P/N: NX5X-XX4X-X5X-X
Combine Side Intake Duct with Solid Metal Rear Door with Perforated Insert and Vertical Exhaust Duct Top Panel. Side airflow; top exhaust.

Not finding what you need? Please visit our CPI Online Catalogue for ordering information. For additional assistance, contact your local sales representative.

F-Series TeraFrame® Gen 3 Cabinet System

The F-Series TeraFrame® Gen 3 Cabinet System optimises, stores and secures computer, data storage and network equipment in data centres, computer rooms and network environments. Every cabinet is available in a wide range of standard sizes and configurations to match your equipment and facility requirements.

The third generation F-Series TeraFrame features an enhanced frame design, new sizes and panels, easier equipment rail adjustment and smarter airflow management. A new 6-slide frame style increases the cabinet's equipment load bearing capacity and is also available in a standard 52U height to maximise space. Equipment mounting rails are now Z-shaped with a solid front surface, use no standoff brackets, adjust quickly using less hardware and help block bypass airflow around equipment. There are grommet-sealed cable openings in the rails in wider cabinets that allow a dedicated front-to-rear pathway for cabling, while blocking unwanted bypass airflow.

Airflow management is an integral part of every cabinet, so brush seals cover all of the cable openings in the top and bottom panels. A new two-piece server top panel design provides an upgrade path to Vertical Exhaust Duct as thermal loads increase. When ordered with a duct, a bottom panel, airflow director and rear door seal are included with the cabinet to channel hot exhaust air to the duct. For best performance, use with the improved Air Dam and Snap-In Filler Panels to form a complete seal around the sides, top of the cabinet and in between rack-mount equipment.

Combine the F-Series TeraFrame with thermal and cable management accessories to create a solution that fits your exact needs.

Cabinet Specifications:

- Available in 11 heights, three widths and 17 depths
- Provides front and rear support for 19"W (482.6 mm) EIA rack-mount equipment and shelves
- Adjustable depth, rails slide front-to-back
- Marks on frame for easy vertical alignment
- 1-3/4"H (44.45 mm) U spacing, marked and numbered
- 19"W, EIA-310-E Universal vertical hole spacing
- Load capacity for 6-slide frame (per UL2416):
  - 3000 lb (1360 kg), static load on leveling feet
  - 2250 lb (1020 kg), rolling load on casters
- Load capacity for 4-slide frame (per UL2416):
  - 2500 lb (1134 kg), static load on leveling feet
  - 2000 lb (907.2 kg), rolling load on casters

Cabinet Includes:

- Welded steel and bolted aluminum four-post frame
- Equipment mounting rails, two pairs
- Equipment rail grommet kit
- Grounding/bonding system and ground lug
- Leveling feet and casters
- Floor attachment brackets
- Baying kit, for 600 mm or 24" spacing
- PDU brackets, one pair, for two 2.2"W (56 mm) vertical CPI PDUs
- Equipment mounting hardware, (50) M6 cage nuts and screws

Certifications:

- EIA-310-E compliant
- UL Listed 2416, NWIN, File #E227626

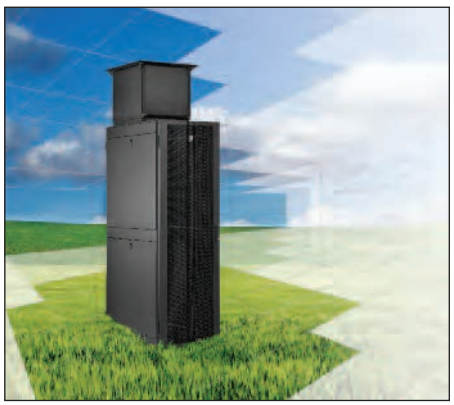
For the full line of F-Series TeraFrame Gen 3 Cabinet configurations, log on to the CPI Configurator from our website: www.chatsworthproducts.co.uk. For additional assistance, contact your local sales representative.

CPI Cabinets and Colocation Sites:

Many colocation data centre managers rely on CPI to provide a storage solution that protects their clients' equipment. CPI's cabinet-level containment products lead the industry in thermal management and allow data centre owners to easily add or remove single cabinets without affecting surrounding cabinets. Similarly, CPI aisle containment solutions provide security and cooling for a group of cabinets. Blanking panels fill the space when cabinets are removed, maintaining the thermal and security benefits. Additionally, CPI provides intelligent power distribution units that allow mangers to monitor power usage at the equipment level so that clients can clearly see power expenditure and the resulting costs.

Thermal Management for Cabinet Systems

CPI provides a wide range of innovative thermal management solutions that are designed to channel cool air to the front of equipment cabinets where it is needed most. CPI's most recent approach to cooling the data centre involves CPI Passive Cooling® Solutions that allows customers to reclaim control over airflow, so it can be directed where it is needed, eliminating bypass and re-circulation of hot exhaust air and the formation of hot spots.



HotLok® Snap-In Filler Panel
HotLok Snap-In Filler Panel attaches to 19" EIA compliant square-punched or threaded mounting rails to create a 99 percent effective seal between adjacent panels and equipment, blocking airflow between panels. Available in two styles: universal black panel and black panel with temperature strip.
CPI P/N 14171-310
1U x 19"EIA, Black Panel, Pack of 10
CPI P/N 14171-320
1U x 19"EIA, Black Panel with Temperature Strip, Pack of 10
CPI P/N 14172-310
2U x 19"EIA, Black Panel, Pack of 5
CPI P/N 14172-320
2U x 19"EIA, Black Panel with Temperature Strip, Pack of 5

1417X-310

1417X-320

CPI Snap-In Filler Panel
Snap-In Filler Panel blocks airflow in-between equipment by sealing unused rack-mount spaces (U) in the cabinet. Available in 1U and 2U heights, Black or Glacier White finishes and individual or bulk packs.
CPI P/N 34537-002 / 34537-E02
1U x 19"EIA, Pack of 50, Black / Glacier White
CPI P/N 34538-002 / 34538-E02
2U x 19"EIA,Pack of 50, Black / Glacier White

34537-002
34538-002

KoldLok® Raised Floor Grommet
Used to reduce bypass airflow and improve data centre cooling by blocking unsealed cable holes. Easy to install and can be positioned in the middle or the edge of floor tiles.
CPI P/N 13671-001
Split Integral Grommet, flush mount, two-piece design, 1 Each
CPI P/N 13671-002
Split Integral Grommet, flush mount, two-piece design, Pack of 10

13671-00X

Remote Infrastructure Management for Cabinet Systems

CPI's Remote Infrastructure Management (RIM) System consists of a full line of appliances and sensors that provide continuous environmental, power and security monitoring in data centres and equipment rooms and allows for interconnectivity with building management systems providing an integrated view of all equipment using a simple web interface.

Remote Infrastructure Management (RIM-750)
RIM-750 monitors eight digital inputs and four temperature or temperature/humidity sensors, plus one zone of leak detection.
CPI P/N 60100-001
RIM-750, 4 Temperature/Humidity inputs, 8 digital inputs, 1 leak detection point, 1 relay output

60100-001

Remote Infrastructure Management (RIM-1000)
RIM-1000 provides remote monitoring of sensors and devices in data centres and equipment rooms.
CPI P/N 60101-001
1U, 24 VDC, 8 configurable analog or digital NO/NC inputs, (2) relay outputs, (1) open expansion card slot

60101-001

Additional accessories available.

Aisle Containment Solutions

To optimise thermal performance in your data centre and take full advantage of energy saving techniques like economisation, you must isolate the hot and cold airflow through each cabinet and the entire room. This precision approach to airflow isolation is easily deployed through Aisle Containment Solutions which utilise Passive Cooling to create effective and efficient thermal solutions at every level of infrastructure deployment.

CPI's latest innovation in Aisle Containment has sharpened focus on total air isolation, resulting in a solution that helps reduce energy costs and optimises power availability. The flexibility to deploy the containment system into the hot or cold aisle provides the ability to overcome facility challenges like limited ceiling height, complicated overhead pathways or the inability to add a drop ceiling or overhead return ducts. Frame Supported options support colocation facilities and roll in/roll out deployment, allowing cabinets to be added or omitted from contained aisles, while maintaining air isolation.

Cold Aisle Containment (CAC) Solution
Cold Aisle Containment isolates the cold air, preventing it from mixing with the hot air in an entirely closed off area targeted at cooling equipment instead of the room. In the example above, CPI Aisle Containment Doors are combined with an overhead ceiling and cabinet system to enclose the cold aisle between adjacent cabinet rows. The overhead ceiling traps cold air in the aisle so that it will be used to cool equipment, instead of the entire room.

Build To Spec (BTS) Kit Hot Aisle Containment (HAC) Solution
The BTS Kit HAC Solution features a field-fabricated duct that is used over a contained hot aisle as part of a closed hot air return. This solution integrates with perimeter cooling, provides immediate improved cooling efficiency and is compatible with economisation methods. It is ideal for retrofit applications over a mix of cabinets, including cabinets of varying heights, widths and depths.

Currently available:
- Build To Spec (BTS) Hot Aisle Containment (HAC)
- Cabinet Supported Cold Aisle Containment (CAC)

Benefits of CPI Aisle Containment Solution:
- Effectively utilise 100% of supplied air and reduce chilled air waste
- Improve CRAC efficiency because of the higher supply-to-return temperature differences
- Support 4x higher heat and power densities (6 kW to 30+ kW)
- Eliminate Hot Spots
- Allow increased room temperature, higher set points on cooling equipment and chilled water temperatures for more free cooling hours using low-cost economisers

To get started:
- Contact your CPI Sales Representative
- CPI will work with you to develop a personalised solution that includes a complete bill of materials and support drawings

CPI's Aisle Containment Solutions include:
- Aisle Containment Doors
  - Sliding double doors or single door spans aisles that are two to three tiles wide
  - Stylish anodised aluminum door frame with full-height, clear polycarbonate panels
  - Automatic close system minimises isolation strategy disruption
  - Speed damper controls closing speed to prevent doors from slamming
  - Detent open feature maintains door in the open position for equipment installation or maintenance when required
  - Concealed floor hardware with flush or offset mounting to align with raised floors
  - Multi-seal design eliminates airflow leakage for maximum performance
- BTS Kit – Exhaust Duct
  - Field-fabricate duct accomodates site differences and existing conditions
  - Compatible with a mix of cabinets – different heights, widths and depths in the same row
  - Translucent duct panels and transparent door panels allow light to enter the contained aisle
  - Durable construction and maintenance-free design provide many years of use
  - A complete solution maximises performance with baffles to seal around and within the cabinets and contained aisle
- Cold Aisle Containment – Ceiling Panel Kits
  - Attaches to the tops of cabinets and elevates ceiling panels above cabinets
  - Clear polycarbonate panels allow light to enter the aisle
  - Accommodates different height cabinets
  - 100, 200 and 300 mm height elevations provide additional clearance above cabinets

Recommended services include:
- Pre-Installation Site Survey
- Assembly Supervision Service

For additional information, visit our Aisle Containment information page on our website.

Rack Systems

CPI's industry-leading two- and four-post rack systems provide unsurpassed strength, stability and durability for supporting patch panels, high-density blocks, cabling and other equipment. Rack Systems have a smaller footprint than cabinets, making them ideal for telecommunications closets and cross connect spaces where floor space is limited. With the addition of cable managers, shelves and special brackets, racks can quickly adapt to your changing needs. CPI's two-post racks are constructed of high-strength, lightweight extruded aluminum and feature industry-standard hole patterns for mounting flexibility.

Two-Post Racks

Two-Post Racks support interconnect equipment like patch panels and fibre enclosures. Equipment mounting spaces are marked and numbered, making it easy to position equipment. Threaded attachment holes on the support channels allow quick installation of equipment. UL Listed.

- Standard Rack Supports 1000 lb (453 kg) of equipment
- Universal Rack Supports 1500 lb (680.4 kg) of equipment

CPI P/N 55053-703
3"D (80 mm) Standard Rack, 45U x 19"EIA (2.1 m x 381 mm), Black
CPI P/N 66353-703
6"D (150 mm) Standard Rack, 45U x 19"EIA (2.1 m x 381 mm), Black
CPI P/N 46353-703
3"D (80 mm) Universal Rack, 45U x 19"EIA (2.1 m x 381 mm), Black

Four-Post Racks

Four-Post Racks are sturdy, cost-effective solution with mounting channels that provide front and rear support for equipment. Supports up to 2000 lb (907.2 kg) of equipment.

Adjustable ServerRack®

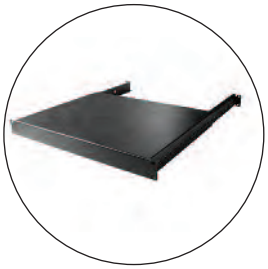
Adjustable ServerRack adjusts rack depth by 25 mm increments prior to installation to match site requirements. Channel depth is fixed after installation.

CPI P/N 15212-703
45U x 19"EIA (2.1 m x 381 mm), Adjustable Depth 575 mm to 725 mm, Black
CPI P/N 15213-703
45U x 19"EIA (2.1 m x 381 mm), Adjustable Depth 750 mm to 900 mm, Black

Cable Management available in additional options and finishes.

Accessories for Rack Systems

CPI P/N 40108-719
Double-Sided Shelf, for 3"D (80 mm), Double-Sided 2-Post Racks, Black
CPI P/N 15245-703
Solid Shelf, 1U x 19"EIA, Adjustable Depth 750 to 900 mm, for 4-Post Racks, Black
CPI P/N 40605-001
#12-24 Tapped Rail Hardware Kits, Pack of 50, Zinc
CPI P/N 40605-005
#12-24 Tapped Rail Hardware Kits, Pack of 50, Black
CPI P/N 12637-001
M6 Square-Punched Hardware Kits, Pack of 25, Gold



To learn more about CPI and our global capabilities, visit www.chatsworthproducts.co.uk.

Evolution® Cable Management Solutions

Evolution® Cable Management is CPI's largest, most feature rich cable manager for use in data centre computer rooms for medium and high-density applications.

- Vertical cable managers are available in single- and double-sided versions
- Delivers fully assembled with door(s)
- Heavy-duty design, trough and doors are steel, T-shaped cable guides are plastic
- Patented T-shaped cable guides with rounded edges protect and organise cables
- Large cable openings between the T-shaped cable guides on the sides of the managers align with each rack-mount unit (U) space on the supporting rack
- Moveable Mid-Sections in double-sided vertical cable managers allow a 50/50, 40/60 or 60/40 front/rear split of the internal space
- The door features a two-point latch operated by a single knob, opens to the right or left and can be removed when cabling
- The door attaches at the top and bottom of the cable manager and does not limit or block access to any of the cable openings at the side of the manager

Evolution® Cable Managers installed on a CPI 4-Post Rack

Vertical Cable Managers

Double-Sided, g2

CPI P/N 35521-703
45U x 6"W x 24.5"D (2.1 m x 150 mm x 622 mm), Black

CPI P/N 35522-703
45U x 8"W x 24.5"D (2.1 m x 200 mm x 622 mm), Black

CPI P/N 35523-703
45U x 10"W x 24.5"D (2.1 m x 250 mm x 622 mm), Black

CPI P/N 35524-703
45U x 12"W x 24.5"D (2.1 m x 300 mm x 622 mm), Black

CPI P/N 35525-703
45U x 15"W x 24.5"D (2.1 m x 380 mm x 622 mm), Black

Combination, g3

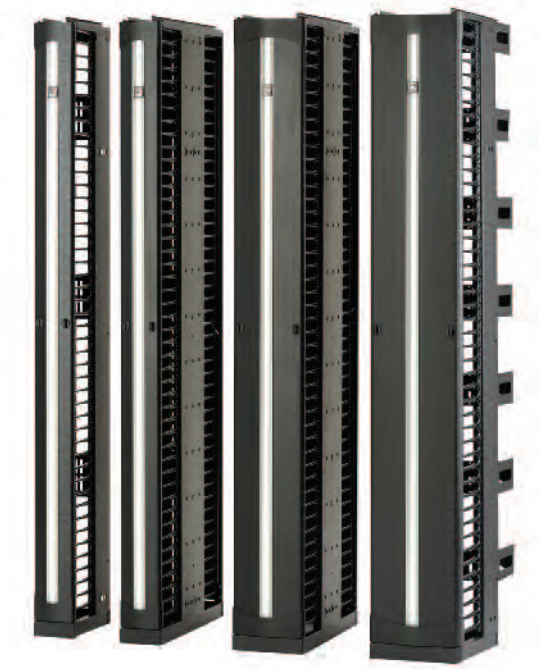
CPI P/N 35571-703
45U x 6"W x 20.2"D (2.1 m x 150 mm x 513 mm), Black

CPI P/N 35572-703
45U x 8"W x 20.2"D (2.1 m x 200 mm x 513 mm), Black

CPI P/N 35573-703
45U x 10"W x 20.2"D (2.1 m x 250 mm x 513 mm), Black

CPI P/N 35574-703
45U x 12"W x 20.2"D (2.1 m x 300 mm x 513 mm), Black

CPI P/N 35575-703
45U x 15"W x 20.2"D (2.1 m x 380 mm x 513 mm), Black



From left to right: Evolution® Cable Managers; Single-Sided g1, (2) Double-Sided g2 versions and Combination g3 manager. Also available in Glacier White, shown below.

Horizontal Cable Managers

CPI P/N 35441-701
1U x 19"EIA x 8.2"D (208 mm), Black

CPI P/N 35441-702
2U x 19"EIA x 8.2"D (208 mm), Black

CPI P/N 35441-703
3U x 19"EIA x 8.2"D (208 mm), Black

CPI P/N 35441-704
4U x 19"EIA x 8.2"D (208 mm), Black

Other sizes and finishes available.

Cable Management Solutions

Master Cabling Section (MCS) and Combination Cabling Section (CCS) offer a more substantial cable management solution suitable for use in telecommunications rooms and data centre computer rooms for low and medium density applications.

- MCS vertical cable managers are available in single- and double-sided versions
- Delivered fully assembled with door(s)
- Lightweight design, trough and door(s) are aluminim, T-shaped cable guides are plastic and align with each rack-mount unit (U)
- Patented T-shaped cable guides with rounded edges protect and organise cables
- Openings in the middle of the double-sided managers provide easy front-to-rear cabling
- Sturdy metal door/cover hinges open to the right or left and includes a handle and mechanical latch that keeps the door in the closed position
- CCS vertical cable managers are double-sided managers with T-shaped cable guides and a door on the front side only–the back side has latches, but is mostly open to support larger cable bundles
- Matching single-sided horizontal cable managers, the Universal Horizontal Cable Manager, creates a side-to-side pathway above and below patch panels and switches

MCS Vertical Cable Managers

Single-Sided

CPI P/N 30091-703
45U x 4.4"W x 8.08"D (2.1 m x 112 mm x 205 mm), Black

CPI P/N 30092-703
45U x 6"W x 8.08"D (2.1 m x 150 mm x 205 mm), Black

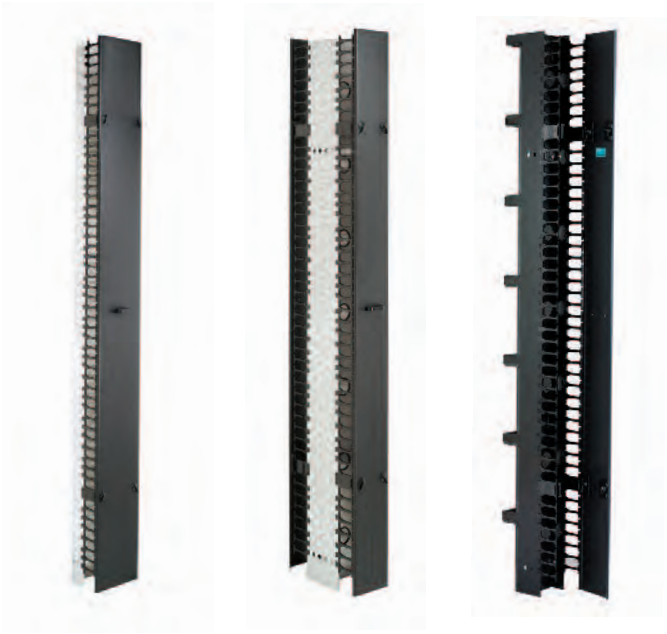
CPI P/N 30093-703
45U x 10"W x 8.08"D (2.1 m x 250 mm x 205 mm), Black

Double-Sided

CPI P/N 30094-703
45U x 4.4"W x 16.15"D (2.1 m x 112 mm x 410 mm), Black

CPI P/N 30095-703
45U x 6"W x 16.15"D (2.1 m x 150 mm x 410 mm), Black

CPI P/N 30096-703
45U x 10"W x 16.15"D (2.1 m x 250 mm x 410 mm), Black



CCS Vertical Cable Managers

CPI P/N 30161-703
45U x 3.65"W x 12.2"D (2.1 m x 93 mm x 310 mm), Black

CPI P/N 30162-703
45U x 6"W x 12.2"D (2.1 m x 150 mm x 310 mm), Black

CPI P/N 30163-703
45U x 10"W x 12.2"D (2.1 m x 250 mm x 310 mm), Black

Universal Horizontal Cable Managers

CPI P/N 30139-719
1U x 19"EIA x 4.96"D (126 mm), Black

CPI P/N 30130-719
2U x 19"EIA x 5.14"D (131 mm), Black

CPI P/N 30131-719
3U x 19"EIA x 5.14"D (131 mm), Black

Also available in Glacier White and additional size options.

Velocity® Cable Management Solutions

Cable Management Solutions create vertical and horizontal cable pathways on Rack Systems, defining a specific pathway for premise cables and patch and jumper cords. Cable Management Solutions protect cables from damage and promote recommended best practices for cabling installation. CPI offers three styles of cable management to match specific applications and price requirements.

Velocity® Cable Management offers an easy to install, easy to transport and economical cable management solution suitable for use in telecommunications rooms for low and medium density applications.

- Vertical cable managers are available in single- and double-sided versions
- Snap-together vertical cable managers delivered unassembled in a compact package
- Lightweight design, sides are molded plastic, covers are extruded plastic
- Quick and easy assembly takes less than five minutes to unpack, assemble and install
- Openings on the sides of the vertical managers align with each rack-mount unit (U) on the rack, simplifying cable management
- T-shaped cable guides with rounded edges protect and organise cables
- Openings on the back of the managers provide easy front-to-rear cabling
- Snap-on covers protect cables and swing open to the right or left for easy access

Vertical Cable Managers

Single-Sided

CPI P/N 13901-703
45U x 3.6"W x 9.7"D (2045 mm x 91 mm x 246 mm), Black

CPI P/N 13902-703
45U x 6"W x 9.8"D (2045 mm x 152 mm x 249 mm), Black

CPI P/N 13904-703
45U x 10"W x 10.3"D (2045 mm x 254 mm x 262 mm), Black

CPI P/N 13905-703
45U x 12"W x 10.4"D (2045 mm x 305 mm x 264 mm), Black

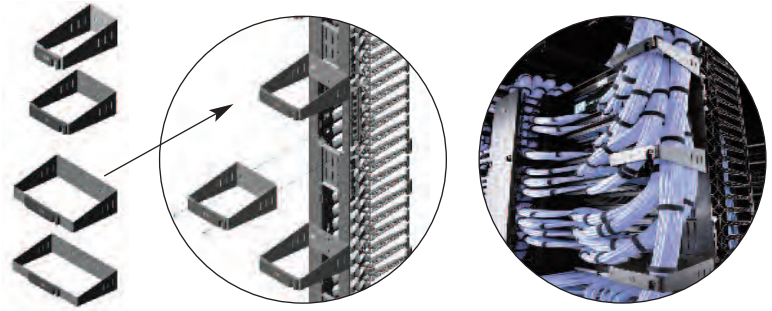
Double-Sided

CPI P/N 13911-703
45U x 3.6"W x 16.4"D (2045 mm x 91 mm x 417 mm), Black

CPI P/N 13912-703
45U x 6"W x 16.6"D (2045 mm x 152 mm x 422 mm), Black

CPI P/N 13914-703
45U x 10"W x 17.5"D (2045 mm x 254 mm x 445 mm), Black

CPI P/N 13915-703
45U x 12"W x 17.8"D (2045 mm x 305 mm x 446 mm), Black



Cable Ring Kit

Creates a cost-effective, separate cable pathway on the back of the Single-Sided Velocity Cable Manager for premise cables.

CPI P/N 13934-717
3.6"W (91 mm) Ring Kit, includes 8 rings, Black

CPI P/N 13934-727
6"W (152 mm) Ring Kit, includes 8 rings, Black

CPI P/N 13934-747
10"W (254 mm) Ring Kit, includes 8 rings, Black

CPI P/N 13934-757
12"W (305 mm) Ring Kit, includes 8 rings, Black

Horizontal Cable Managers

CPI P/N 13930-701
1U x 19"EIA x 5.9"D (150 mm), Black

CPI P/N 13930-702
2U x 19"EIA x 5.9"D (150 mm), Black

CPI P/N 13930-703
3U x 19"EIA x 5.9"D (150 mm), Black

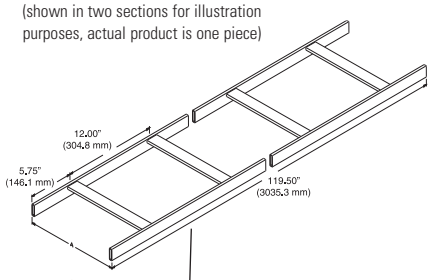
Other sizes and finishes available.

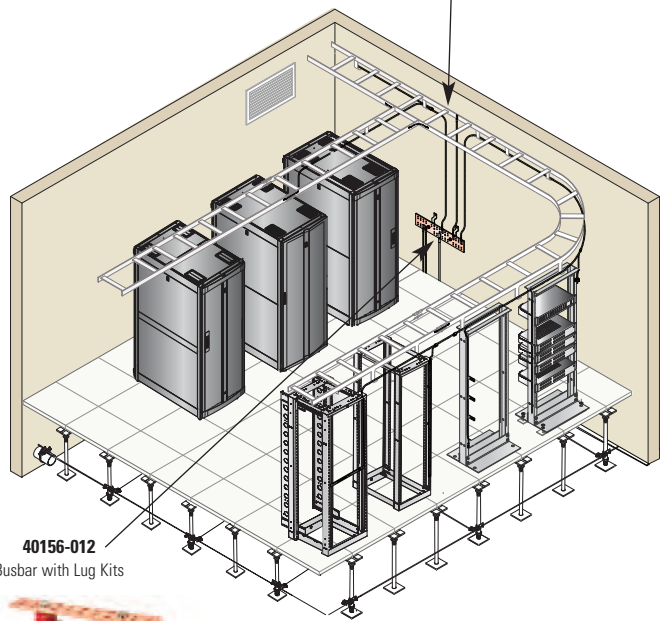
Cable Runway

Cable Runway provides continuous support for cable and is open on the top, bottom and sides, allowing cables to easily enter and exit the pathway.

- High-quality welded tubular steel construction
- Straight sections are 9'-11 1/2"L (3 m), 119.5" (3035 mm) and can be cut to length as required
- Cross members are spaced every 305 mm
- Simple splices allow sections to bolt together
- Supports up to 132 lb/ft (60 kg per linear 300 mm) with minimal deflection when supported every 5'L (1.5 m)
- Individually boxed to prevent scratches and damage

10250-712
Universal Cable Runway
(shown in two sections for illustration purposes, actual product is one piece)





40156-012
Busbar with Lug Kits

Cable Runway (H x W x L)

CPI P/N 10250-712
Cable Runway, 1.5" x 12" x 119.5" (38 mm x 300 mm x 3035 mm), Black
CPI P/N 10250-718
Cable Runway, 1.5" x 18" x 119.5" (38 mm x 460 mm x 3035 mm), Black
CPI P/N 10250-724
Cable Runway, 1.5" x 24" x 119.5" (38 mm x 610 mm x 3035 mm), Black
Also available in Glacier White finish.

Grounding and Bonding Products

UL Listed Telecommunications Grounding Busbars provide central ground point for computer telecommunications equipment.
CPI P/N 40156-012
TGB Pattern Busbar Assembly with Lug Kit, 2"W x 0.25"H x 12"L, (50 mm x 6.4 mm x 300 mm), Copper
CPI P/N 40158-012
TMBG Pattern Busbar Assembly with Lug Kit, 4"W x 0.25"H x 12"L (100 mm x 6.4 mm x 300 mm), Copper

Go to www.chatsworthproducts.co.uk for our comprehensive line of grounding and bonding products.

Cable Runway Support Products

11302-701 Installed

Cable Runway Splices

Connect Cable Runway together to form straight sections, turns and intersections

CPI P/N 11301-701 / 11301-001

Butt Splice Kit, For End-To-End Connection, Black (-701), Gold (-001)

CPI P/N 11302-701 / 11302-001

Junction Splice Kit, For 90-degree Intersections, Black (-701), Gold (-001)

Cable Runway Components

Fabricated bends used to create a smooth radius when the pathway changes direction or elevation.

CPI P/N 10822-712

E-Bend, 90-degree Horizontal Turn, 12"W (300 mm), Black

CPI P/N 10822-718

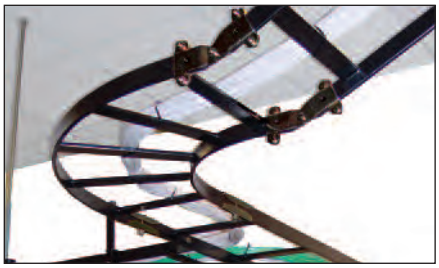
E-Bend, 90-degree Horizontal Turn, 18"W (460 mm), Black

CPI P/N 10822-724

E-Bend, 90-degree Horizontal Turn, 24"W (600 mm), Black

CPI P/N 11959-715

Corner Bracket, 90-degree Corner for an Intersection, 15"W (380 mm), Black



10822-718 Installed

Cable Runway Supports

Attach Cable Runway to the wall, ceiling, floor or the tops of racks and cabinets. At minimum, support Cable Runway every 5'L (1.5 m) and within 12" (300 mm) of each intersection or change in elevation.

CPI P/N 10506-706

Elevation Kit for CPI 2-Post Rack, 100 mm-150 mm H, (Use with P/N 10595), Black

CPI P/N 10506-716

Elevation Kit, 100 mm-150 mm H, For CPI Cabinets, Black

CPI P/N 10595-712

Rack-To-Runway Mounting Plate, For 12"W (300 mm) Cable Runway, Black

CPI P/N 10595-718

Rack-To-Runway Mounting Plate, For 18"W (460 mm) Cable Runway, Black

CPI P/N 12408-724

Rack-To-Runway Mounting Plate, For 24"W (610 mm) Cable Runway, Black

CPI P/N 11308-701

J-Bolt Kit attaches Cable Runway to Wall Angle Support, Black

CPI P/N 11310-093

Threaded Ceiling Kit, M10 Rod x 2 m. Includes Ceiling and Runway Brackets, Gold/Zinc plated

CPI P/N 11310-094

Threaded Ceiling Kit, M16 Rod x 2 m. Includes Ceiling and Runway Brackets, Gold/Zinc plated

CPI P/N 11310-001

Threaded Ceiling Kit, (1) Ceiling Support Bracket, (1) 3/8" Rod, (1) Runway Support Bracket, Hardware

CPI P/N 11310-003

Threaded Ceiling Kit, (1) Ceiling Support Bracket, (1) 5/8" Rod, (1) Runway Support Bracket, Hardware

CPI P/N 11421-712

Wall Angle Support Kit, For 12"W (300 mm) Cable Runway, Black

CPI P/N 11421-718

Wall Angle Support Kit, For 18"W (460 mm) Cable Runway, Black

CPI P/N 11421-724

Wall Angle Support Kit, For 24"W (610 mm) Cable Runway, Black

CPI P/N 11746-712

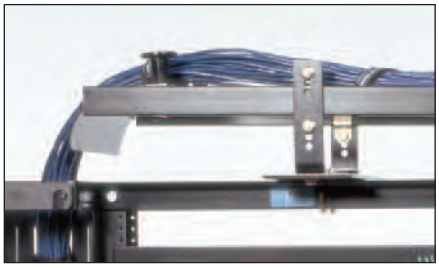
Triangular Support Bracket, For 12"W (610 mm) Cable Runway, Black

CPI P/N 11746-718

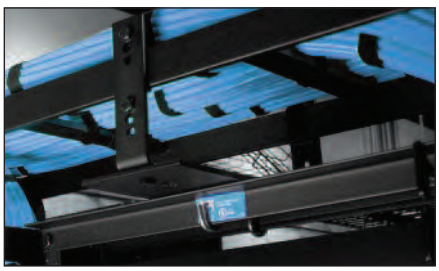
Triangular Support Bracket, For 18"W (460 mm) Cable Runway, Black

CPI P/N 11746-724

Triangular Support Bracket, For 24"W (610 mm) Cable Runway, Black



10506-706 Installed



10595-718 Installed

Most Runway accessories available in Glacier White.

Cable Runway Support Products

CPI P/N 11309-701 / 11309-001
Foot Kit to secure Cable Runway to wall or floor. Includes hardware. Black (-701), Gold (-001)
CPI P/N 10608-001
Vertical Wall Bracket to secure runway to wall, 1-1/2" x 3/8" (38 mm x 9.53 mm), Gold

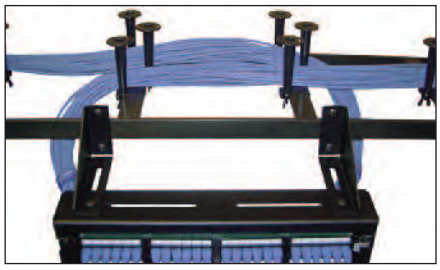
Cable Runway Accessories

Protect and preserve cable by placing a Radius Drop at each point where cable enters or exits the Cable Runway and by covering the exposed ends of Cable Runway with End Caps. Use the Ground Strap Kit to bond Cable Runway sections together at each splice. Divide Cable Runway into multiple cable pathways in order to organise cables according to media type or destination.

CPI P/N 12101-711
Side Stringer Radius Drop, 10.2"W (260 mm), Black
CPI P/N 12100-712
Cross Member Radius Drop, 11" (280 mm) Cross Member, Black
CPI P/N 12100-718
Cross Member Radius Drop, 17"W (430 mm), Black
CPI P/N 10642-001
Protective End Caps, Black
CPI P/N 40164-001 / 40164-025
Cable Runway Ground Strap Kit, Each / Pack of 25
CPI P/N 10596-706 / 10596-756
Cable Retaining Post, 6"H (150 mm), Each / Pack of 50
CPI P/N 13392-712
Universal Pathway Divider, fits 3/8"H x 1-1/2"W (9.53 mm x 38.1 mm) cross member, Pack of 25

Most Runway accessories available in Glacier White finish.


12100-718 Installed


13392-712 Installed

PatchRack for CPI Cable Runway

The PatchRack is a miniature two-post rack that can be attached to CPI Cable Runway to save rack-mount space by placing patch panels or interconnect equipment above the rack or cabinet. Use Patch Rack to create a zone network in the data centre.

- Attaches to all CPI Cable Runway, but optimised for (38.1 mm x 9.53 mm) side stringers or cross members to Universal Cable Runway
- Supports 19"W rack-mount equipment
- Supports up to 27.2 kg

CPI P/N 13395-704
PatchRack with Side Stringer Brackets, 4U, Black
CPI P/N 13395-708
PatchRack with Side Stringer Brackets, 8U, Black
CPI P/N 13394-704
PatchRack with Cross Member Brackets, 4U, Black
CPI P/N 13394-708
PatchRack with Cross Member Brackets, 8U, Black


View of PatchRack installed on CPI Cable Runway above CPI Cabinet.


PatchRack with D-Rings installed on CPI Cable Runway above CPI Cabinet.

eConnect® PDUs

eConnect® PDUs are intelligent power distribution products that connect you to your evolving enterprise data centre. eConnect is designed to withstand the high heat loads of any hot aisle environment and is available in more than 180 standard configurations, including high-density models.

eConnect PDUs have capabilities that range from establishing basic connections to equipment, to remote access with monitoring and switching capabilities on each individual outlet. eConnect PDUs are a perfect fit for your data storage cabinet or equipment rack.

- High Temperature Rating - Can support ambient air temperatures up to 65°C (149°F)
- Improved User Interface - Graphic multifunctional LCD Display located in the centre of PDU can be viewed vertically and flipped 180 degrees to be viewed from the top or the bottom
- IP Consolidation – Link up to 20 PDUs under a single IP address using standard Ethernet cables. Deploy fewer IP addresses, reduce installation time and enjoy features like outlet grouping, PDU cloning and unified access under a single web address
- Low-Profile Design – eConnect PDUs fit in the Zero U space along the side of the cabinet, so they do not block access to mounting rails or exhaust airflow from equipment
- Individually Monitored Outlets – Monitored Pro eConnect PDUs measure power use (voltage, current and kW) at each outlet for exact power measurement
- Cord Retention – Unique cord retention system included in every PDU consists of an anchor button mounted on the chassis and locking tethers to secure each individual plug, keeping the overall profile of the PDU
- Temperature and Humidity Sensor Port – Monitored and Monitored Pro eConnect PDUs include a port for two external sensors to track environmental conditions in your cabinet
- Network Access for Web Monitoring – Monitored and Monitored Pro eConnect PDUs include a network connection and can be accessed using a web browser to view power, temperature and humidity measurements and alarms
- NEMA or IEC Inlets and Outlets – All eConnect PDUs are available with a selection of power plugs and mix of outlets to match your facility and equipment requirements
- Universal Tool-less Mounting – Every eConnect PDU includes shoulder washers spaced to match mounting brackets on CPI and most competitor cabinets

Use CPI's online Power Configurator, the tool that guides you through each step of identifying the monitoring, switching and outlet needs of your PDU.

eConnect PDU Ordering Tables:

Part Number	Input			Output		Dims - in (mm)		
	Amp	Power kW*	Plug	Breakers	Outlets	H	W	D
Basic eConnect PDUs:								
110/125 Volt, Single-Phase PDUs								
P1-1G0E3	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(24) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P1-1H0B1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P1-1H0E3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(24) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P1-1H0G3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
380/415 Volt, Three-Phase WYE PDUs (200-240 Volt Output)								
P1-1W0B1	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P1-1W0G3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P1-2Y0F3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(24) C13, (12) C19	72.0 (1829)	2.4 (61)	2.2 (56)
P1-2Y0H3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(36) C13, (6) C19	72.0 (1829)	2.4 (61)	2.2 (56)
Monitored eConnect PDUs:								
110/125 Volt, Single-Phase PDUs								
P3-1G0E3	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(24) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P3-1H0B1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P3-1H0E3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(24) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P3-1H0G3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
208 Volt, Three-Phase DELTA PDUs (208 Volt Output)								
P3-3V0H3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(36) C13, (6) C19	75.0 (1905)	2.7 (69)	2.2 (56)
P3-3V0V3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(12) C13, (18) C19	75.0 (1905)	2.7 (69)	2.2 (56)
380/415 Volt, Three-Phase WYE PDUs (200/240 Volt Output)								
P3-1W0B1	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P3-1W0F3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(24) C13, (12) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P3-1W0G3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P3-2Y0F3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(24) C13, (12) C19	72.0 (1829)	2.4 (61)	2.2 (56)
P3-2Y0H3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(36) C13, (6) C19	72.0 (1829)	2.4 (61)	2.2 (56)
Monitored Pro eConnect PDUs:								
200/240 Volt, Single-Phase PDUs								
P4-1G0A1	16	2.7	IEC 16A 2P+E	1 x 2P 16A	24 (C13)	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1G0C3	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1H0A1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1H0B1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1H0C3	32	5.3	IEC 32A 2P+E	2 x 2P16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1H0G3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
208 Volt, Three-Phase DELTA PDUs (208 Volt Output)								
P4-3V0H3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(36) C13, (6) C19	75.0 (1905)	2.7 (69)	2.2 (56)
P4-3V0V3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(12) C13, (18) C19	75.0 (1905)	2.7 (69)	2.2 (56)
380/415 Volt, Three-Phase WYE PDUs (200/240 Volt Output)								
P4-1W0B1	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(36) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P4-1W0G3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(30) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P4-2Y0F3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(24) C13 (12) C19	72.0 (1829)	2.4 (61)	2.2 (56)
P4-2Y0H3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(36) C13 (6) C19	72.0 (1829)	2.4 (61)	2.2 (56)
Switched eConnect PDUs:								
200/240 Volt, Single-Phase PDUs								
P5-1G0A1	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P5-1G0C3	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P5-1H0A1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P5-1H0C3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
208 Volt, Three-Phase DELTA PDUs (208 Volt Output)								
P5-3V0M3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(12) C13, (12) C19	75.0 (1905)	2.7 (69)	2.2 (56)
380/415 Volt, Three-Phase WYE PDUs (200/240 Volt Output)								
P5-1W0A1	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P5-1W0C3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P5-2Y0M3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(12) C13, (12) C19	72.0 (1829)	2.4 (61)	2.2 (56)
Switched Pro eConnect PDUs:								
200/240 Volt, Single-Phase PDUs								
P6-1G0A1	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P6-1G0C3	16	2.7	IEC 16A 2P+E	1 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P6-1H0A1	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P6-1H0C3	32	5.3	IEC 32A 2P+E	2 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
208 Volt, Three-Phase DELTA PDUs (208 Volt Output)								
P6-3V0M3	60	17.3	IEC 60A 3P+E	6 x 2P 20A	(12) C13, (12) C19	75.0 (1905)	2.7 (69)	2.2 (56)
380/415 Volt, Three-Phase WYE PDUs (200/240 Volt Output)								
P6-1W0A1	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(24) C13	70.5 (1791)	2.2 (56)	2.2 (56)
P6-1W0C3	16	8.9	IEC 16A 4P+E	3 x 2P 16A	(18) C13, (6) C19	70.5 (1791)	2.2 (56)	2.2 (56)
P6-2Y0M3	32	17.7	IEC 32A 4P+E	6 x 1P 20A	(12) C13, (12) C19	72.0 (1829)	2.4 (61)	2.2 (56)

CPI Locations

US & Canada
Corporate Office
Westlake Village, CA
+1-800-834-4969

Toronto, Ontario, Canada
+905-850-7770
chatsworth.com

techsupport@chatsworth.com

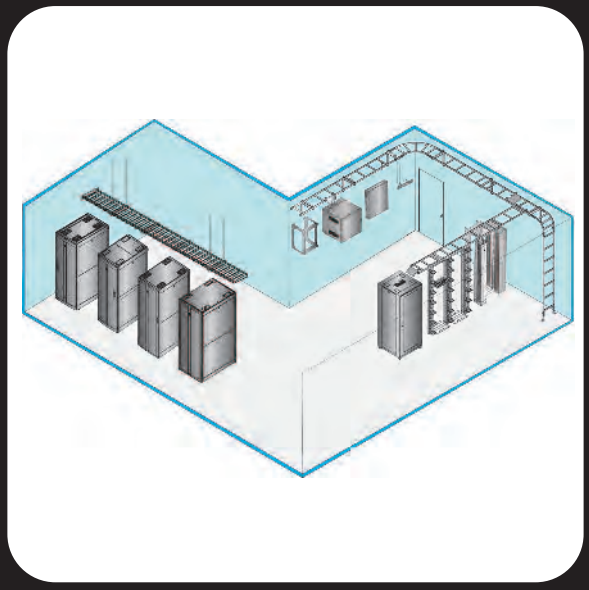
Latin America
Mexico City, Mexico
+52 55 5203-7525
+52-55-5203-7525
Toll Free within Mexico
01-800-01-7592
chatsworth.com.co

Europe
Cavendish House
Bourne End Business Park
Cores End Road
Bourne End
Buckinghamshire, UK
SL8 5AS
+44-1628-524-834
chatsworthproducts.co.uk

Middle East & Africa
5WA-103, West Wing,
Dubai Airport Free Zone
Dubai, United Arab Emirates
+971-4-2602125
chatsworth.ae

Saudi Arabia
Level 6, Akaria Plaza
North Wing, Gate D
Olya Street, Riyadh
+966-11-486-8322

Asia Pacific
Pudong, Shanghai, China
+86 21 6880-0266
chatsworth.com.cn



The CPI Total Solution Includes:

- Cabinet, Containment & Enclosure Systems
- Cable Management
- Cable Runway & Tray
- Environmental Monitoring
- Grounding & Bonding
- Power Management Products
- Rack Systems
- Seismic Bracing Systems
- Wall-Mount Systems
- Zone & Wireless Enclosures

Find more information about CPI Solutions at
www.chatsworthproducts.co.uk
or techsupport@chatsworth.com

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