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Standards



Free-Stand Cabinets Product Selection Guide

Free-Stand Cabinets Product Selection Guide

Description					
CABINET SERIES	NET SERIES	SEISMIC	PROLINE®	PROLINE®	PROLINE®
Models	Server & Voice/Data	Seismic	Server	CONNECTEK™	Network Switch
Application	General DataCom computer room General networking	Seismic Zones Network and battery	Remote networking Vented front window door	Data center Network equipment	Data center Network switches
Density	Low density	Low density	Low density	Low density	High density
DIMENSIONS					
Rack Units	21 to 43	45	24 to 42	42	42
Height	49.00 in. or 84.00 in.	84.05 in.	50.75 in. or 82.30 in.	78.28 in.	78.35 in.
Width	23.52 in 31.50 in.	27.55 in. or 31.50 in.	23.62 in.	27.56 in. or 31.50 in.	31.50 in.
Depth	34.00 in 49.75 in.	31.50 in 47.25 in.	35.40 in 47.24 in.	35.40 in 47.24 in.	39.34 in 47.24 in.
RATINGS					
Loading Static (Ultimate load testing)	1,000 lbs. static	2,500 lbs. static	1,500 lbs. static	1,500 lbs. static	1,500 lbs.
Certifications and Listings	RoHS compliant ISO 9001 EIA (rack spacing)	RoHS compliant ISO 9001 EIA (rack spacing) UL 1863 (static load rating) Telcordia GR-63-CORE, NEBS requirements	RoHS compliant ISO 9001 EIA (rack spacing)	RoHS compliant ISO 9001 EIA (rack spacing)	RoHS ISO 9001 EIA (rack spacing)
STRUCTURE					
Front and Back Door	Reversible, window or perforated front, split perforated, or louvered rear, all with key locks	Window front, louvered rear with multi-point key lock	Window perforated front, perforated rear with key lock	Perforated front, split perforated rear with key locking handle	Fully perforated front, split perforated rear
Base	Open	Open	Open with casters, levelers and anti-tip bracket	Open with internal bolt brackets	Open
Тор	Fan-ready (2 in. x 6 in.) top with cable cap and grommet	Fan-ready (2 in. x 6 in.) top with cable cap and grommet	Removable, fully perforated with cable entry cap and grommet	Removable perforated with sliding gland plate for cable entry	Solid with sliding gland plate for cable entry
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FEATURES					
Cable Management	Limited offering	Robust offering	Robust offering	Robust offering	Front and rear cable manage- ment supports
Power Management	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount PDUs available
Unique Features	• 19-in. or 23-in. rack spacing on 27.55 in. and 31.50 in. widths	Heavy-gauge construction, extra welds, heavy-duty washers, 3-point vault-style latching Zone 4 1,100 lbs. Can be used as battery cabinet.	Cabinet can be rolled into place, levelers positioned and anti-tip bracket attached. Anti-tip bracket, casters, levelers are standard.	 Includes front vertical cable managers with covers and rear vertical tie-down cable managers. CISCO versions available. 	Ideal for CISCO Network Switches 6500 series with right-to-left airflow. Rear upper rack angles (4 RU) ideal for fiber-to-copper transition or other network devices. Complete cable management for patch cords and permanent link cables.



Free-Stand Cabinets Product Selection Guide

PROLINE®	PROLINE®	PROLINE®	PROLINE®	PROLINE®	VARISTAR
FLOTEK™ - PC	FLOTEK™ - HCA	FLOTEK™ - FD	Server and Voice/Data	Server and Voice/Data	VARISTAR LHX
Data center Passive cooling	Data center Hot aisle/cold aisle	Data center Floor ducted	Factory floor Type 12 with/without AC	Factory floor remote location Type 1, filtered fan	Data center Remote non-data center
Low density	High density	High density	Application specific	Application specific	Very high server density
42 (51 max.)	42 (51 max.)	42 (51 max.)	42 (51 max.)	42 (51 max.)	42 (51 max.)
78.22 in. (94.10 in. max.)	78.22 in. (94.10 in. max.)	78.22 in. (94.10 in. max.)	78.22 in. (94.10 in. max.)	78.22 in. (94.10 in. max.)	78.22 in. (94.10 in. max.)
23.62 in.	23.62 in.	23.62 in.	27.56 in. or 31.50 in.	27.56 in. or 31.50 in.	31.50 in.
35.40 in 47.24 in.	35.40 in 47.24 in.	35.40 in 47.24 in.	35.40 in 47.24 in.	35.43 in 47.24 in.	48.00 in.
1,500 lbs. static	1,500 lbs. static	1,500 lbs. static	1,500 lbs. static	1,500 lbs. static	2,200 lbs. Total and 19-in. equipment 880 lbs
RoHS compliant ISO 9001 EIA (rack spacing)	RoHS compliant ISO 9001 EIA (rack spacing)	RoHS compliant ISO 9001 EIA (rack spacing)	RoHS compliant ISO 9001 EIA (rack spacing) UL 508 Type 12 CUL Type 12 NEMA/EEMAC Type 12	RoHS compliant ISO 9001 EIA (rack spacing) UL 508 Type 1 cUL Type 1 NEMA/EEMAC Type 1	ROHS, ISO 9001 EIA IP 55
Perforated front, split perforated rear with key locking handle	Perforated front, split fan rear with key locking handle	Window front, split fan rear with key locking handle	Window front, solid door rear with key locking handle	Window front, solid door rear with key locking handle	Front window, rear solid, both fully gasketed
Open with internal bolt brackets	Open with internal bolt brackets	Open base with floor duct, casters and levelers	Gland plate base with casters and levelers	Gland plate base with casters and levelers	100 mm plinth
Perforated with sliding gland plate for cable entry	Removable solid with sliding gland plate for cable entry	Removable solid with sliding gland plate for cable entry	Removable solid	Removable pagoda top with high- capacity 10-in. fan	Solid, fully gasketed
2 sets Square hole Dash mark (-) at start and stop of RU	2 sets Square hole Dash mark (-) at start and stop of RU	2 sets Square hole Dash mark (-) at start and stop of RU	2 sets Communications have tapped 10-32 holes Server has square hole Dash mark (-) at start and stop of RU	2 sets Communications have tapped 10-32 holes Server has square hole Dash mark (-) at start and stop of RU	2 sets Square hole EIA universal standard
No sides or removable sides with 2 snap latches, quarter-turn key latch ready	No sides or removable sides with 2 snap latches, quarter-turn key latch ready	No sides or removable sides with 2 snap latches, quarter-turn key latch ready	Removable sides with fastening screws	Removable sides with fastening screws	Solid, fully gasketed
Robust offering	Robust offering	Robust offering	Robust offering	Robust offering	Robust offering
Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount and panel-mount PDUs available	Rack-mount PDUs available
 Provides maximum cooling without added fans for hot aisle/cold aisle and other data center configurations. 	Ideal for hot aisle/cold aisle data center configurations in high-density applications. Rear split doors access separately powered banks of fans for redundancy with easy equipment access.	Integrates raised floor cool air pathway to the network equipment. Raised floor cutout required.	Configuration offered that is air conditioner-ready (AC cutout to side). Data-center-within-a-data-center concept. Fully gasketed to keep out sideair infiltration.	Pagoda top-mounted fan with lower side intake filters on access panels.	Heat exchanger provides 20 kW or 40 kW cabinet cooling. Totally enclosed cooling system provides maximum cooling efficiency. Integral thermal mgmt. communication system Ideal for high-density servers and remote (non-data center) located networks.



Net Series Communication and Server Cabinet



Industry Standards

UL 1863 Listed (perforated, split perforated and louvered door models only)

FIA 310-D IEC 60529, IP20

Perforated door material meets equipment manufacturer ventilation requirements

Application

Net Series Cabinets are an economical solution for contractors, small computer rooms, schools or smaller networks that require a generalpurpose cabinet to house servers and communication equipment. Multiple sizes, adjustable rack angles and accessories give Net Series Cabinets wide application flexibility.

Features

- Includes two sets of adjustable L-shaped rack angles for convenient equipment mounting
- Rack angles on communication cabinets have tapped 10-32 holes per EIA standards. Order 10-32 fasteners separately.
- Rack angles on server cabinets have square holes per EIA standards. Order fasteners and cage nuts separately.
- Rack angle settings on all 700- and 800-mm wide cabinets can accommodate either 19- or 23-in. rack spacing

- In 600-mm wide cabinets, equipment mounted on 19-in. rack angles is centered
- In 700- and 800-mm wide cabinets, 19-in, rack angles can be set to center equipment or to mount equipment next to the left or the right side for improved cable management
- Rack angles infinitely positionable within the cabinet for easy adjustment to desired position
- All doors are field removable and reversible with left or right hinging for installation flexibility
- Communication cabinet has fully perforated or window front and louvered rear doors for equipment ventilation
- Server cabinet has fully perforated front and split rear perforated doors for easy access to servers
- Doors have key-locking handles that provide security with convenient access for authorized personnel
- Removable side panels with quarter-turn key-locking latch are inset for flush appearance
- Two cable entry ports with caps and grommets on cabinet top for wiring ease
- Fan-ready top with integral finger guard. Order up to two 6-in. fans separately.
- Caster- and leveler-ready open base design. Order casters and levelers separately.

Specifications

- · Some models available with or without sides
- Welded multi-formed steel frame. The top and columns are 16 gauge; base is 14 gauge.
- Multi-formed rigid doors are 14 gauge steel
- Window made of 1/8-in. smoke-tinted acrylic
- Formed solid sides are 14 gauge steel
- Rack angles are 12 gauge steel
- · Ground studs provided on doors and covers

Finish

Pretreated steel coated with RAL 9005 black textured low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

1000 lb. (454 kg) per UL 1863 with load evenly distributed in enclosure

NOTE: UL 1863 requires that the cabinet be tested with a load four times the rating. The cabinet was tested to 4000 lb. (1814 kg) without failure to meet the 1000 lb. (454 kg) rating. Contact Hoffman if other loading specifications are required.

Accessories

See also Accessories. **Net Series Rack Angles** Net Series Caster Kit Net Series Joining Kit Net Series Leveler Kit

Net Series Vertical Tie-Down Cable Manager

Bulletin: DC



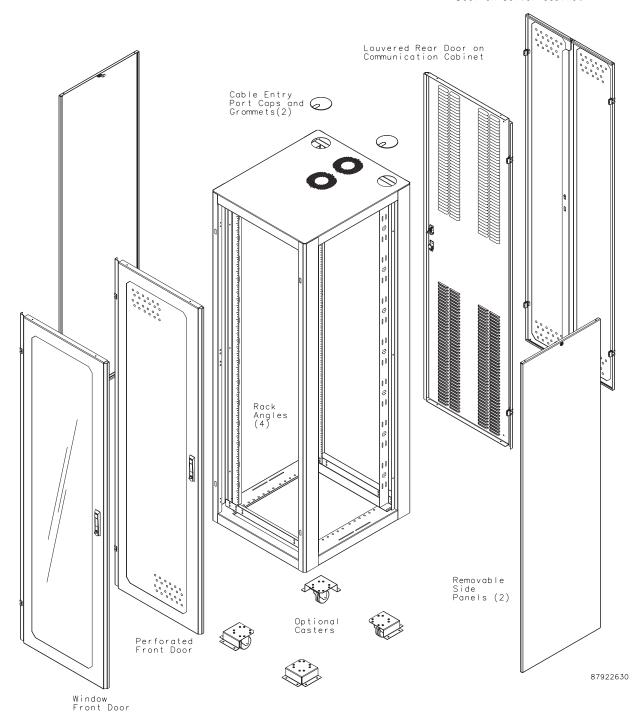
Standard Product

				М	N	1	
Catalog Number	AxBxCin./mm	Description	Rack Units	in./mm	in./mm	Rack Angle Holes	Additional Rack Angles
NC1268	49.00 x 23.62 x 33.99	Communication Cabinet	23	42.00	14.71	Tapped 10-32	NRAT126
	1245 x 600 x 863			1067	374		
NC2178	84.00 x 27.56 x 33.99	Communication Cabinet	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 863			1956	474		
NC2178NS	84.00 x 27.56 x 33.98	Communication Cabinet	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 863	No Sides		1956	474		
NC2179	84.00 x 27.56 x 37.93	Communication Cabinet	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 963			1956	474		
NC21710	84.00 x 27.56 x 41.86	Communication Cabinet	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 1063			1956	474		
NC2188	84.00 x 31.50 x 33.99	Communication Cabinet	43	77.00	22.58	Tapped 10-32	NRAT218
	2134 x 800 x 863			1956	574		
NC2189	84.00 x 31.50 x 37.93	Communication Cabinet	43	77.00	22.58	Tapped 10-32	NRAT218
	2134 x 800 x 963			1956	574		
NC21810	84.00 x 31.50 x 41.86	Communication Cabinet	43	77.00	22.58	Tapped 10-32	NRAT218
	2134 x 800 x 1063			1956	574		
NCW2168	84.00 x 23.62 x 33.99	Communication Cabinet, Window Door	43	77.00	14.71	Tapped 10-32	NRAT216
	2134 x 600 x 863			1956	374		
NCW2168NS	84.00 x 23.62 x 33.98	Communication Cabinet, Window Door	43	77.00	14.71	Tapped 10-32	NRAT216
	2134 x 600 x 863	No Sides		1956	374		
NCW2178	84.00 x 27.56 x 33.99	Communication Cabinet, Window Door	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 863			1956	474		
NCW2178NS	84.00 x 27.56 x 33.98	Communication Cabinet, Window Door	43	77.00	18.65	Tapped 10-32	NRAT217
	2134 x 700 x 863	No Sides		1956	474		
NCW2188	84.00 x 31.50 x 33.99	Communication Cabinet, Window Door	43	77.00	22.58	Tapped 10-32	NRAT218
	2134 x 800 x 863			1956	574		
NS12610	49.00 x 23.62 x 41.86	Server Cabinet	23	42.00	14.71	Square	NRAS126
	1245 x 600 x 1063			1067	374		
NS2169	84.00 x 23.62 x 37.93	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 963			1956	374		
NS2169NS	84.00 x 23.62 x 37.91	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 963	No Sides		1956	374		
NS21610	84.00 x 23.62 x 41.86	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 1063			1956	374		
NS21610NS	84.00 x 23.62 x 41.85	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 1063	No Sides		1956	374		
NS21611	84.00 x 23.62 x 45.80	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 1163			1956	374		
NS21612	84.00 x 23.62 x 49.74	Server Cabinet	43	77.00	14.71	Square	NRAS216
	2134 x 600 x 1263			1956	374		
NS21711	84.00 x 27.56 x 45.80	Server Cabinet	43	77.00	18.65	Square	NRAS217
	2134 x 700 x 1163			1956	474		
NS21811	84.00 x 31.50 x 45.80	Server Cabinet	43	77.00	22.58	Square	NRAS218
	2134 x 800 x 1163			1956	574		

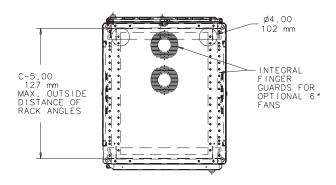
 $Tapped \ and \ square \ hole\ rack\ angles\ of\ the\ same\ size\ can\ be\ used\ interchange ably\ in\ communication\ and\ server\ cabinets. See\ rack\ angle\ table\ for\ available\ rack\ angles.$ Catalog numbers with "NS" at the end have no sides.

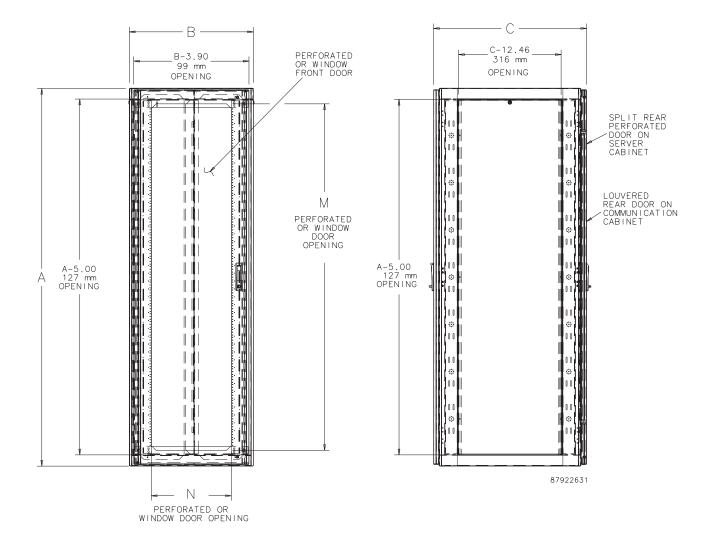


Perforated Split Rear Door on Server Cabinet











Net Series Rack Angles



Rack angles are available with either 10-32 tapped or square mounting holes. Communication and server cabinets can use either tapped-hole or square-hole rack angles. Finish is RAL 9005 black, low-gloss smooth polyester powder paint. Shipped in sets of two with two mounting brackets and mounting hardware.

	Length	'	Use with Net Series
Catalog Number	in./mm	Hole Type	Cabinet H x W
NRAT126	40.37	Tapped	1245 x 600
	1025		
NRAT216	78.87	Tapped	2134 x 600
	2003		
NRAT217	78.87	Tapped	2134 x 700
	2003		
NRAT218	78.87	Tapped	2134 x 800
	2003		
NRAS126	40.37	Square	1245 x 600
	1025		
NRAS216	78.87	Square	2134 x 600
	2003		
NRAS217	78.87	Square	2134 x 700
	2003		
NRAS218	78.87	Square	2134 x 800
	2003		

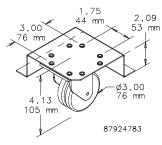
Net Series Caster Kit



These recessed ball-bearing casters allow Net Series Cabinet repositioning with a minimal effort. Casters add 2 in. to height of cabinet. Kit includes four casters, recessed brackets and mounting hardware.

Bulletin: DCY

Catalog Number	Description
NCK	Set of four casters, recessed brackets and mounting hardware
	'



Net Series Joining Kit

The joining kit enables joining Net Series Cabinets without sides to form a single bank of cabinets. Each kit joins two cabinets.

Bulletin: DCY

Catalog Number	Description	
NJK	Net Series Joining Kit	

Net Series Leveler Kit



Leveler Kits allow adjustment of Net Series Cabinets for uneven floors. Can be used with casters to stabilize final installation.

Bulletin: DCY

Catalog Number	Description
NLK	Set of four levelers

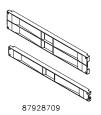


Tool-less (Snap-in) Blanking Panels for 19-in. Racks



These Tool-less 19-in. Blanking Panels provide easy tool-less installation and ensure proper airflow to equipment. Made of black composite material and can be used with tapped or square EIA universal spaced rack mounting angles. Bulletin: DACCY

		Rack	,	Pkg.
Catalog Number	Description	Units	Fits	Qty.
D19BPT1RU	Blanking Panel, 19 in.	1	19 in., universal rack spacing,	10
			tapped or square holes	
D19BPT2RU	Blanking Panel, 19 in.	2	19 in., universal rack spacing,	10
			tapped or square holes	



Net Series Vertical Tie Down Cable Manager

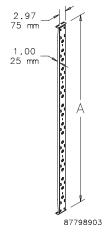


Hold larger cable bundles securely. VELCRO™ Cable Wraps provide convenient cable fastening and easy access to individual cables. One piece design. Holes provided for addition of cable transitions, spools, or D-Rings (order separately). Made of steel coated with RAL 9005 black polyester powder paint. Includes mounting hardware.

VELCRO is a trademark of Velcro Industries B.V.

Bulletin: DCY

Catalog Number	A in./mm	Fits Cabinet Height
NVCMTD12	40.37	1245
	1025	
NVCMTD21	78.87	2134
	2003	





Tool-less Shelf

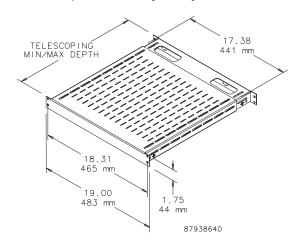


An easy-to-install tool-less vented 19-in. shelf. Mounts onto rack angles that have EIA-spaced square holes (.375 in.). Shelf slides open and provides a variable-sized, continuous surface for equipment. Back of shelf has oval cutouts for power and data cables. Accessory hole patterns at back of shelf fit small and large D-rings to help manage cable. Made of steel with a 150 lb. (68 kg) static load rating. Available with RAL 9005 black or RAL 7035 gray polyester powder coat finish.

Bulletin: DACCY

			Minimum Depth	Maximum Depth
Catalog Number	Description	Finish	mm/in.	mm/in.
D19FVT69B	Shelf, vented, 19 in. tool-less	Black	495	851
			19.50	33.50
D19FVT69G	Shelf, vented, 19 in. tool-less	Gray	495	851
			19.50	33.50
D19FVT912B	Shelf, vented, 19 in. tool-less	Black	792	1151
			31.20	45.30
D19FVT912G	Shelf, vented, 19 in. tool-less	Gray	792	1151
			31.20	45.30

Minimum and maximum depth measured from rack angle to rack angle.







PROLINE® Containment System



Application

The PROLINE® Containment System prevents hot and cold airflows from mixing. The system increases cooling efficiency, lowers energy costs, allows for higher thermal density with in the cabinet and eliminates the need to buy additional cooling units. Use for either hot or cold air containment and on raised and non-raised floors. The PROLINE Containment System is easy to order and to install.

Customize your Containment System by purchasing the Aisle Doors, Ceiling Panels with Windows, Chimney and Ceiling Panels for Chimney separately.

Features

- · Aisle door slides to the right to provide quick access to aisle way
- · Easy to order
- Accommodates 36-in. (OSHA minimum aisle widths) and 48-in. (two-floor-tile-wide) aisle ways
- Ergonomically positioned grab handles on interior and exterior of contained aisle
- Clear, transparent door and roof panels provide maximum light to aisleway
- Tool-less Ceiling Panels are easy to install and remove for cleaning and provide above-the-cabinet access to cables, equipment and systems
- Window Ceiling Panels have easily modified .22-in. polycarbonate panels to accommodate local fire-suppression codes (sprinkler heads)
- Chimney Ceiling Panels are used with chimney to direct hot exhaust air into drop ceiling, duct work or other means back to the computer room cooling devices
- Chimney comes in two heights to fit a wide range of applications

Specifications

Aisle Doors

- Composite construction of 16, 14 and 12 gauge steel
- Aluminum track and steel trolley with composite wheels
- Safety glass door is mechanically fastened to steel frame

Window Ceiling Panels

- Frame made of 16 gauge steel
- · Overhead panel made of .22-in. polycarbonate

Chimney Ceiling Panels

- Frame made of 16 gauge steel
- Purchase Chimney separately

Chimney

- Made of 18 gauge steel
- Two sizes to fit various ceiling heights
- Infinite adjustment between minimum and maximum extension
- · Bulb gasket seals against flat surfaces and ceilings
- S-connectors provided for duct work connection
- Purchase Chimney Ceiling Panel separately

Finish

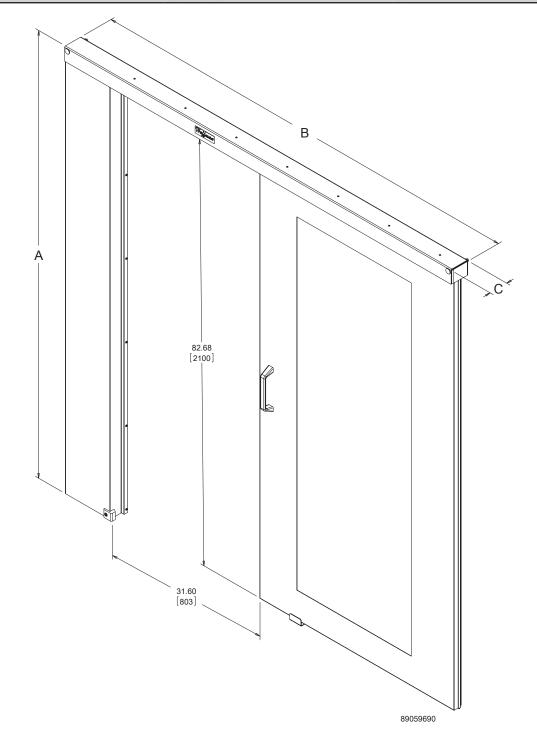
Prepared surface coated in polyester powder low-gloss, lightly textured RAL 9005 black

Bulletin: DPY



Standard Product Aisle Doors

		Aisle Width	ŀ
Catalog Number	AxBxC mm/in.	mm/in.	
PCAD2	2175 x 2175 x 93	914 or 1219	
	85.63 x 85.63 x 3.68	36.00 or 48.00	



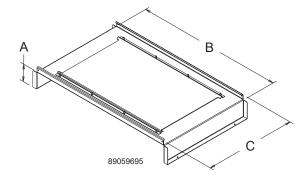


Window Ceiling Panel



- Frame made of 16 gauge steel
- Overhead panel made of .22-in. polycarbonate

Bulletin: DPY



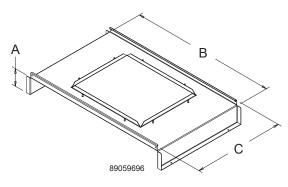
	<u> </u>	Aisle Width	Use With
Catalog Number	AxBxC mm/in.	mm/in.	Cabinet Width
PCP69	143 x 1309 x 597	914	600 mm
	5.63 x 51.52 x 23.50	36	
PCP79	143 x 1309 x 697	914	700 mm
	5.63 x 51.52 x 27.44	36	
PCP89	143 x 1309 x 797	914	800 mm
	5.63 x 51.52 x 31.38	36	
PCP612	143 x 1309 x 597	1219	600 mm
	5.63 x 51.52 x 23.50	48	
PCP712	143 x 1309 x 697	1219	700 mm
	5.63 x 51.52 x 27.44	48	
PCP812	143 x 1309 x 797	1219	800 mm
	5.63 x 51.52 x 31.38	48	

Chimney Ceiling Panel



- Frame made of 16 gauge steel
- Image shows Chimney attached to the Chimney Ceiling Panel; purchase Chimney separately

Bulletin: DPY



		Fits Aisle Width	Use With
Catalog Number	AxBxC mm/in.	mm/in.	Cabinet Width
PCPC69	143 x 1009 x 597	914	600 mm
	5.63 x 39.71 x 23.50	36	
PCPC79	143 x 1009 x 697	914	700 mm
	5.63 x 39.71 x 27.44	36	
PCPC89	143 x 1009 x 797	914	800 mm
	5.63 x 39.71 x 31.38	36	
PCPC612	143 x 1009 x 597	1219	600 mm
	5.63 x 39.71 x 23.50	48	
PCPC712	143 x 1009 x 697	1219	700 mm
	5.63 x 39.71 x 27.44	48	
PCPC812	143 x 1009 x 797	1219	800 mm
	5.63 x 39.71 x 31.38	48	

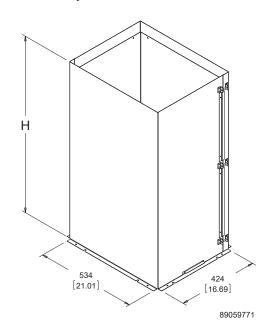


Containment System Chimney



- Made of 18 gauge steel Two sizes to fit various ceiling heights
- Infinite adjustment between minimum and maximum extension
 Bulb gasket seals against flat surfaces and ceilings
 S-connectors provided for duct work connection
 Purchase Chimney Ceiling Panel separately

Bulletin: DPY



		Ceiling Height	H min	Hmax
Catalog Number	AxBxC mm/in.	mm/in.	mm/in.	mm/in.
PCM1	457 x 534 x 424	2600 to 3057	613	1067
	18.00 x 21.01 x 16.69	102.36 to 120.36	24.13	42.00
PCM2	762 x 534 x 424	2905 to 3667	918	1676
	30.00 x 21.01 x 16.69	114.36 to 144.36	36.13	66.00



PROLINE® FLOTEK™ PC (Passive Cooling) Server Cabinet



Application

Designed deeper to house servers and manage power cables, PROLINE® FLOTEK™ Cabinets rely on optimized passive airflow for thermal management. The cabinets may be placed in data rooms randomly or in hot/cold aisle configurations.

Features

Rigid front door made of aluminum extrusions and formed perforated steel offers highly attractive appearance and durability

- Fully perforated front and rear doors and fully perforated top allow maximum air movement around equipment; conforms to server manufacturer open space requirements
- Models without sides fit together quickly for easy installation in ganged applications
- Three-point locking pushbutton swing handle on front door provides easy but controlled access; two keys included
- Rear doors are split for easy access and include 3-point, low-profile, locking swing handle
- Two sets of 19-in. square-hole rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Large gland plate in top allows easy routing of cable, preterminated cables and patch panels
- Mounting hardware (20 each of 10-32 screws and cage nuts) is included

Specifications

- 16 or 14 gauge steel doors, sides and cover
- Welded 12 gauge steel frame
- Rack angles have square holes with EIA 310-D spacing
- · Open bottom with integral bolt-down brackets

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location, and
- its load is uniformly applied to the two sets of rack-mounting

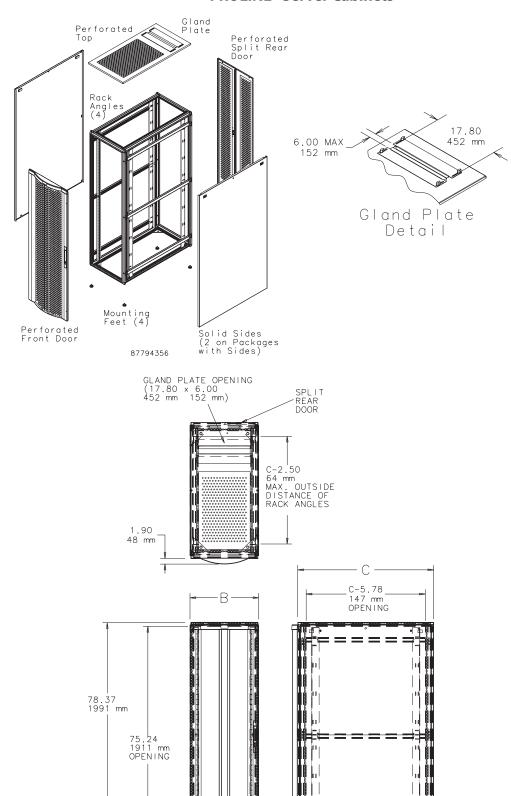
Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Bulletin: DPSR

Standard Product

				Additional Square
Catalog Number	AxBxC mm/in.	Sides	Rack Units	Hole Rack Angle
PSCPC2069B	1991 x 608 x 899	With sides	42	PRA1920THL1
	78.37 x 23.94 x 35.40			
PSCPC2069BNS	1991 x 599 x 899	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 35.40			
PSCPC20610B	1991 x 608 x 999	With sides	42	PRA1920THL1
	78.37 x 23.94 x 39.34			
PSCPC20610BNS	1991 x 599 x 999	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 39.34			
PSCPC20611B	1991 x 608 x 1099	With sides	42	PRA1920THL1
	78.37 x 23.94 x 43.28			
PSCPC20611BNS	1991 x 599 x 1099	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 43.28			
PSCPC20612B	1991 x 608 x 1199	With sides	42	PRA1920THL1
	78.37 x 23.94 x 47.22			
PSCPC20612BNS	1991 x 599 x 1199	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 47.22			





.36 9 mm

87794355



PROLINE® FLOTEK™ HCA (Hot/Cold Aisle) Server Cabinet



Industry Standards

EIA 310-D

Application

Two independently-powered, redundant fan banks in the rear of the PROLINE® FLOTEK™ HCA Server Cabinet maximize cooling power for high-density applications that generate high amounts of heat.

Features

- Rigid front door made of aluminum extrusions and formed perforated steel offers highly attractive appearance and durability
- Fully perforated front door offers maximum airflow from cold aisle and conforms to server manufacturer open space requirements

- Six 6-in. fans with integral finger guards in the rear doors pull coldaisle air through cabinet and exhaust it to hot aisle
- Fans provide up to 1440 CFM airflow
- Fans on each door can be independently powered to provide redundant cooling
- · Solid top helps direct airflow across equipment
- Models without sides fit together quickly for easy installation in ganged applications
- Three-point locking pushbutton swing handle on front door provides easy but controlled access; two keys included
- Rear doors are split for easy access and include 3-point, low-profile, locking swing handle
- Two sets of 19-in. square-hole rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Large gland plate in top allows easy routing of cable, preterminated cables and patch panels
- Mounting hardware (20 each of 10-32 screws and cage nuts) is included

Specifications

- · 16 or 14 gauge steel doors, sides and cover
- · Welded 12 gauge steel frame
- Rack angles have square holes with EIA 310-D spacing
- Open bottom with integral bolt-down brackets

Finish

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location, and
- its load is uniformly applied to the two sets of rack-mounting angles

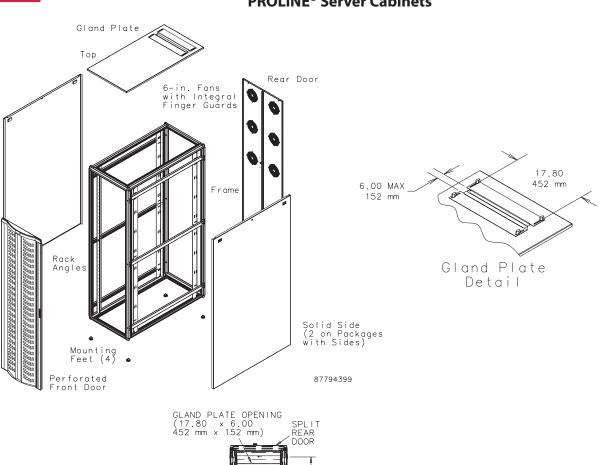
Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

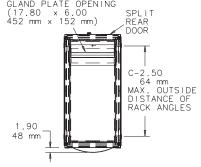
Bulletin: DPSR

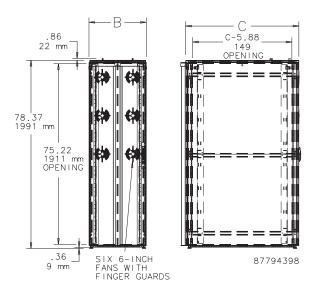
Standard Product

Catalog Number	AxBxC mm/in.	Sides	Rack Units	Rack Angle
PSCHCA2069B	1991 x 608 x 899	With sides	42	PRA1920THL1
	78.37 x 23.94 x 35.40			
PSCHCA2069BNS	1991 x 599 x 899	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 35.40			
PSCHCA20610B	1991 x 608 x 999	With sides	42	PRA1920THL1
	78.37 x 23.94 x 39.34			
PSCHCA20610BNS	1991 x 599 x 999	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 39.34			
PSCHCA20611B	1991 x 608 x 1099	With sides	42	PRA1920THL1
	78.37 x 23.94 x 43.28			
PSCHCA20611BNS	1991 x 599 x 1099	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 43.28			
PSCHCA20612B	1991 x 608 x 1199	With sides	42	PRA1920THL1
	78.37 x 23.94 x 47.22			
PSCHCA20612BNS	1991 x 599 x 1199	Without sides	42	PRA1920THL1
	78.37 x 23.58 x 47.22			











PROLINE® FLOTEK™ FD (Floor Ducted) Server



Industry Standards

EIA 310-D

Application

The PROLINE® FLOTEK™ FD Server Cabinet uses the cooling power of two banks of independently-powered fans in the back of the cabinet and an integral front floor duct to direct air into server intakes when positioned over a cutout in a raised data center floor. The cabinet air inlet requires alignment with a floor cutout so blocking plates can direct cool air from the floor plenum across the front of the equipment.

Features

- Front window door provides a view of equipment inside the enclosure without opening the door
- Six 6-in. fans with integral finger guards in the rear doors pull floorducted air through cabinet and exhaust it to hot aisle
- Fans provide up to 1400 CFM airflow
- Fans on each door can be independently powered to provide redundant cooling
- Blocking plates inside the cabinet on both sides and the top prevent recirculation of hot exhaust air

- Solid top helps direct airflow across equipment
- Sliding gland plate in top covers large opening that allows easy routing of network cables, pre-terminated cables and patch panels
- Models without sides fit together quickly for easy installation in ganged applications
- Three-point locking pushbutton swing handle on front door provides easy but controlled access; two keys included.
- Rear doors are split for easy access and include a low-profile, locking swing handle
- Two sets of 19-in. square-hole rack angles with EIA universal spacing support both front and rear of equiment
- Includes mobile base with casters and anti-tip bracket to facilitate moving cabinet into position
- Mounting hardware (20 each of 10-32 screws and cage nuts) is included

Specifications

- 16 or 14 gauge steel front door frame, rear door, sides and cover
- Welded 12 gauge steel frame
- Window is made of .125-in. thick acrylic
- Rack angles have square holes with EIA 310-D spacing
- Duct flange in base for connecting to floor duct

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Rack angles are coated with RAL 9005 black polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- it is in its final, permanent, fully secured location
- its levelers are fully extended
- the anti-tip bracket is installed
- its load is uniformly applied to the two sets of rack-mounting angles, and
- the casters are not supporting any load (use the casters only to move the cabinet to its final location before loading)

Never move a cabinet with its maximum static load applied.

Contact Hoffman if further information is needed.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Do not use casters to move a cabinet with more than 1000 lb. (453 kg) load. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid obstructions such as:

- · large cracks
- floor displacement
- gravel

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

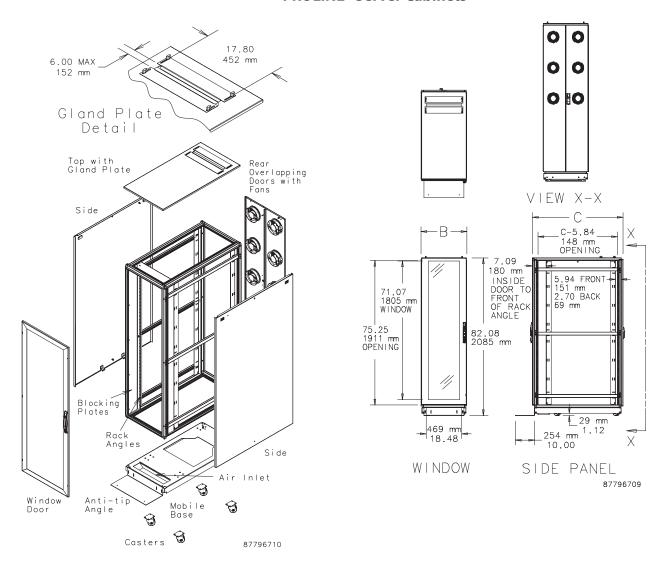
Bulletin: DPSR

Standard Product

				Rack	
Catalog Number	AxBxC mm	AxBxC in.	Sides	Units	Rack Angle
PSFD2069B	2085 x 599 x 899	82.08 x 23.58 x 35.40	With sides	42	PRA1920THL1
PSFD2069BNS	2085 x 599 x 899	82.08 x 23.58 x 35.40	Without sides	42	PRA1920THL1
PSFD20610B	2085 x 599 x 999	82.08 x 23.58 x 39.34	With sides	42	PRA1920THL1
PSFD20610BNS	2085 x 599 x 999	82.08 x 23.58 x 39.34	Without sides	42	PRA1920THL1
PSFD20611B	2085 x 599 x 1099	82.08 x 23.58 x 43.28	With sides	42	PRA1920THL1
PSFD20611BNS	2085 x 599 x 1099	82.08 x 23.58 x 43.28	Without sides	42	PRA1920THL1
PSFD20612B	2085 x 599 x 1199	82.08 x 23.58 x 47.22	With sides	42	PRA1920THL1
PSFD20612BNS	2085 x 599 x 1199	82.08 x 23.58 x 47.22	Without sides	42	PRA1920THL1

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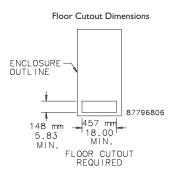




PROLINE® FLOTEK™ FD (Floor Ducted) Server Cabinet Required Floor Cutout



A cutout that matches the air inlet in the floor of the cabinet must be cut in the raised floor. When installed the cabinet air inlet is aligned with the floor cutout, and the blocking plates help direct cool air from the floor plenum across the fronts of the equipment.





PROLINE® FLOTEK™ TD (Top Ducted) Server Cabinet



Industry Standards

EIA 310-D

Application

PROLINE® FLOTEK™ TD improves equipment efficiency and lowers energy costs by directing hot exhaust from the cabinet up above the plenum or drop ceiling and away from the cold room air. Photo shown with Tool-less (Snap-in) Blanking Panels installed. Order separately.

Features

- Designed for use with 19-in. rack-mounted servers, blade servers and other equipment
- Adjustable top duct (chimney) is provided in two different standard heights to fit various Data Center ceilings
- Chimney is pre-assembled and shipped inside the cabinet to ease assembly and avoid extra parcels and shipping damage
- S-connectors provided with chimney to facilitate connection to HVAC duct work
- Edge gasket provided with chimney to prevent hot exhaust gas from mixing with cold airflow
- Cabinet is provided with seals and blocking panels to eliminate cold air bypass
- Includes two sets of fully adjustable mounting angles which are RU marked front and back to facilitate assembly
- Open base allows under-floor cable entry

- · Fully perforated front door provides unrestricted cold airflow to equipment
- Front sealed 19-in, mounting rails and top/bottom air blocking plates prevent cold air bypass
- Solid rear door directs hot exhaust into chimney to prevent mixing with cold airflow
- Data center efficiency increases when cold and hot airflows are kept separate resulting in higher CRAC temperatures (cold airflow to the equipment)
- Reduces overall energy needs with more efficient cold air delivery to equipment
- Allows increased thermal loads and higher server densities inside
- Can be used on raised and non-raised floors

Specifications

- Top sliding gland plate accommodates cables, cable bundles and pre-terminated patch panels
- Exhaust air deflector routes airflow to chimney to avoid hot spots
- Chimney provided with edge gasket and S-connectors
- Attractive, rigid front door made of aluminum extrusions and formed perforated steel, with more than 60 percent open space for free flow of cool air to equipment
- Front door is left-hinged and reversible
- Front and rear doors have keyed multi-point vault-style latch system and central key lock to ensure security
- Solid rear door is fully gasketed to ensure all hot exhaust is directed to top duct
- Front air dam surrounds mounting rack angles to prevent cold air bypass
- Top and sides are formed steel
- Rack angles have .375-in. spaced square holes per EIA standards

RAL 9005 black textured, low-gloss polyester powder paint over pretreated steel.

Front door extrusion has a smooth, low-gloss, silver polyester power paint finish.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location, and
- its load is uniformly applied to the two sets of rack-mounting

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Accessories

19-in. Rack-Mount Environmental Monitor

Cable and PDU Manager

Rack- and Panel-Mount Power Distribution Units (PDUs) Screw Packages

Tool-less (Snap-in) Blanking Panels for 19-in. Racks Tool-less Shelf

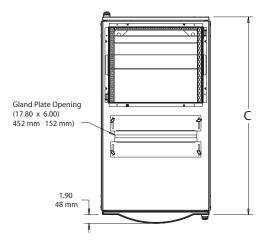
Vertical Cable Manager 1

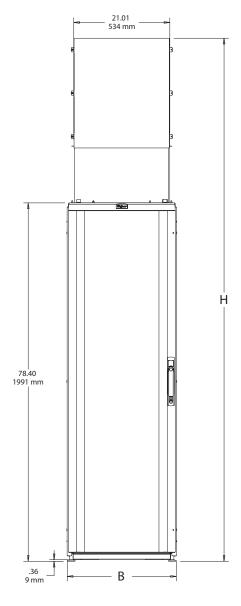
Bulletin: DPVD

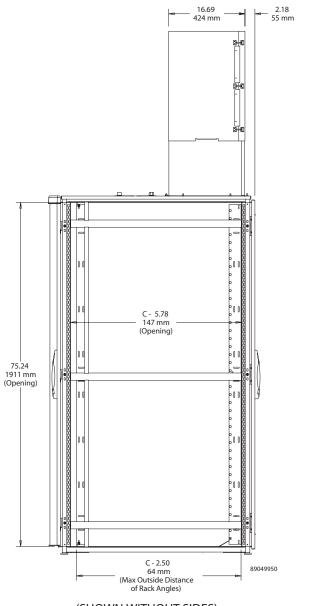
Standard Product

Catalog Number	AxBxC mm	AxBxCin.	H MInimum (mm)	H Minimum (in.)	H Maximum (mm)	H Maximum (in.)	Rack Units
PSTD20610BM	1991 x 608 x 999	78.37 x 23.94 x 39.34	2600	102.36	3057	120.36	42
PSTD20610BT	1991 x 608 x 999	78.37 x 23.94 x 39.34	2905	114.36	3667	144.36	42
PSTD20611BM	1991 x 608 x 1099	78.37 x 23.94 x 43.28	2600	102.36	3057	120.36	42
PSTD20611BT	1991 x 608 x 1099	78.37 x 23.94 x 43.28	2905	114.36	3667	144.36	42
PSTD20612BM	1991 x 608 x 1199	78.37 x 23.94 x 47.22	2600	102.36	3057	120.36	42
PSTD20612BT	1991 x 608 x 1199	78.37 x 23.94 x 47.22	2905	114.36	3667	144.36	42



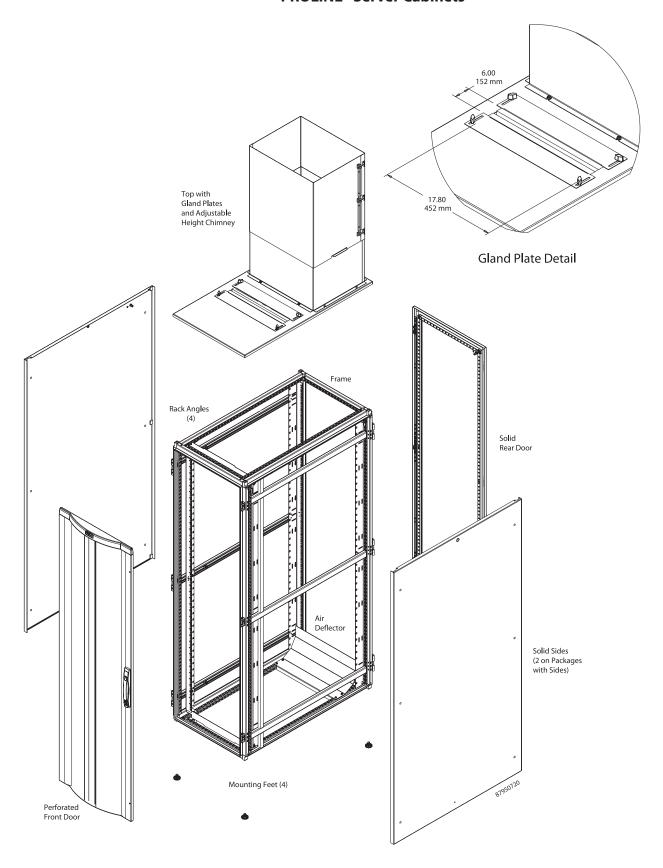






(SHOWN WITHOUT SIDES)









Rear View



HVAC S Connector



Gasket



Chimney up and down positions



Front View (purchase blanking panels separately)



Air Deflector



PROLINE® Server Cabinet



Industry Standards

EIA 310-D

Application

The passively cooled PROLINE® Server Cabinet has a front viewing window and a wheeled base for application mobility and repositioning.

Features

- Front window door with key lock and vents offers visibility and ventilation
- Open base with casters and levelers
- Fully perforated rear door provides excellent ventilation, keeping equipment cool and extending its life
- 2000-mm tall cabinets have split rear perforated doors
- Both front and rear doors have lockable handles
- Quick-release latches on side panels provide easy service access

- Fully perforated top cover with two cable entry ports for easy access and service
- Mounting channels (6) provide infinite front-to-back adjustment of rack angles
- Rack angles are coated with black polyester powder paint
- · Meets industry testing standards criteria
- Mounting hardware (20 each of screws and cage nuts) is included

Specifications

- 16 or 14 gauge steel doors, sides and cover
- Fully welded 12 gauge steel frame
- · L-shaped rack angles (4) have square holes with EIA 310-D spacing
- · Anti-tip angle made of heavy-gauge steel included

Finish

Pretreated steel coated with RAL 7035 light-gray or RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location
- · its levelers are fully extended
- the anti-tip bracket is installed
- its load is uniformly applied to the two sets of rack-mounting angles, and
- the casters are not supporting any load (use the casters only to move the cabinet to its final location before loading)

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Do not use casters to move a cabinet with more than 1000 lb. (453 kg) load. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid obstructions such as:

- large cracks
- floor displacement
- seams
- gravel

Never use casters while transporting a cabinet by truck on roadways.

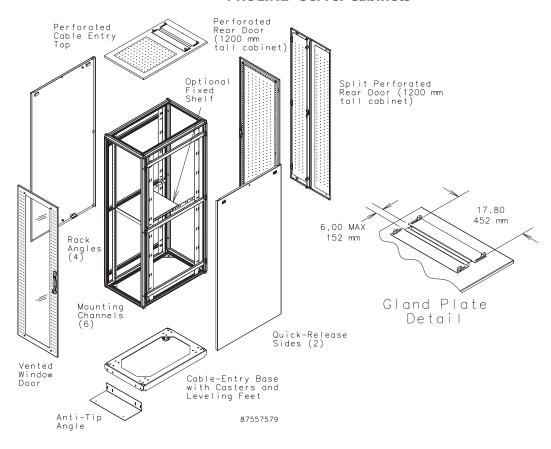
Contact Hoffman if further information is needed.

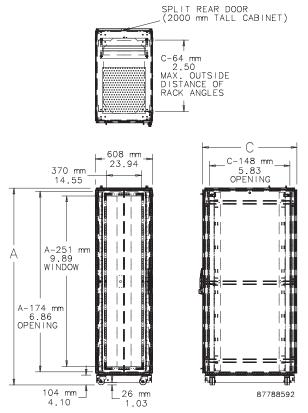
Bulletin: DPSR

Standard Product

Catalog Number	AxBxC mm/in.	Finish	Rack Units	Additional Rack Angles
PSC1269B	1285 x 608 x 899	Black RAL 9005	24	PRA1912THL1
	50.59 x 23.94 x 35.40			
PSC1269	1285 x 608 x 899	Light-Gray RAL 7035	24	PRA1912THL1
	50.59 x 23.94 x 35.40			
PSC12610B	1285 x 608 x 999	Black RAL 9005	24	PRA1912THL1
	50.59 x 23.94 x 39.34			
PSC12610	1285 x 608 x 999	Light-Gray RAL 7035	24	PRA1912THL1
	50.59 x 23.94 x 39.34			
PSC2069B	2085 x 608 x 899	Black RAL 9005	42	PRA1920THL1
	82.08 x 23.94 x 35.40			
PSC2069	2085 x 608 x 899	Light-Gray RAL 7035	42	PRA1920THL1
	82.08 x 23.94 x 35.40			
PSC20610B	2085 x 608 x 999	Black RAL 9005	42	PRA1920THL1
	82.08 x 23.94 x 39.34			
PSC20610	2085 x 608 x 999	Light-Gray RAL 7035	42	PRA1920THL1
	82.08 x 23.94 x 39.34			
PSC20611B	2085 x 608 x 1099	Black RAL 9005	42	PRA1920THL1
	82.08 x 23.94 x 43.28			
PSC20611	2085 x 608 x 1099	Light-Gray RAL 7035	42	PRA1920THL1
	82.08 x 23.94 x 43.28			
PSC20612B	2085 x 608 x 1199	Black RAL 9005	42	PRA1920THL1
	82.08 x 23.94 x 47.22			
PSC20612	2085 x 608 x 1199	Light-Gray RAL 7035	42	PRA1920THL1
	82.08 x 23.94 x 47.22			







PROLINE® Communications Cabinets

PROLINE® CONNECTEK™ Communications (Patch) Cabinet





Application

The PROLINE® CONNECTEK™ Network Communication/Patch Cabinets feature two vertical cable managers in the front of the cabinet and two rear cable managers for maximum cable routing and support. Cabinets are available in two widths to accommodate highdensity cables, patch cords and networking equipment.

- Rigid front door made of aluminum extrusions and formed perforated steel offers highly attractive appearance and durability
- Fully perforated top, front door and rear doors allow maximum air movement around cables, patch panels and other network equipment; conforms to server manufacturer open space requirements
- Includes front cable manager with covers and rear open cable managers to support and route cable. See Cable/Power Management for cable manager specifications.
- Cable managers included with 700-mm wide cabinet: Front -PVF207; Rear - PRBTD205
- Cable managers included with 800-mm wide cabinet: Front -PVF208; Rear - PRBTD2010
- Models without sides fit together quickly for easy installation in ganged applications; can be ganged with server cabinets or with additional Hoffman patch cabinets
- Three-point locking pushbutton swing handle on front door provides easy but controlled access. Two keys included.
- Rear doors are split for easy access and include 3-point, low-profile, locking swing handle

- Two sets of tapped 19-in. rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Large gland plate in top allows easy routing of cable, preterminated cables and patch panels
- Twenty 10-32 screws are included

Specifications

- · 16 or 14 gauge steel doors, sides and cover
- Welded 12 gauge steel frame
- Rack angles have tapped holes with EIA 310-D spacing
- · Open bottom with integral bolt-down brackets

Pretreated steel coated with RAL 9005 black textured, low gloss polyester powder paint. Other finishes available - contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location, and
- its load is uniformly applied to the two sets of rack-mounting

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Bulletin: DPVD

Standard Product

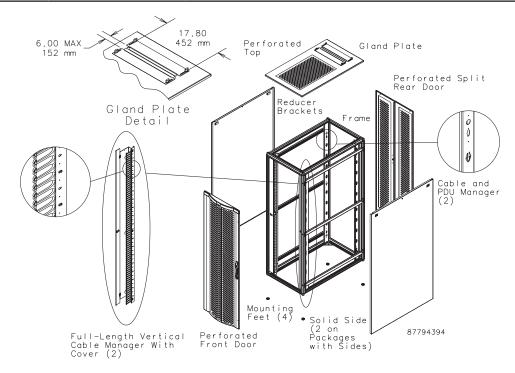
					Additional Tapped	Additional Square
Catalog Number	AxBxC mm	AxBxC in.	Sides	Rack Units	Hole Rack Angle	Hole Rack Angle
PNC2079B	1991 x 708 x 899	78.37 x 27.85 x 35.40	With sides	42	PRA1920TPL1	PRA1920THL1
PNC2079BNS	1991 x 699 x 899	78.37 x 27.52 x 35.40	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20710B	1991 x 708 x 999	78.37 x 27.85 x 39.34	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20710BNS	1991 x 699 x 999	78.37 x 27.52 x 39.34	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20711B	1991 x 708 x 1099	78.37 x 27.85 x 43.28	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20711BNS	1991 x 699 x 1099	78.37 x 27.52 x 43.28	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20712B	1991 x 708 x 1199	78.37 x 27.85 x 47.22	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20712BNS	1991 x 699 x 1199	78.37 x 27.52 x 47.22	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC2089B	1991 x 808 x 899	78.37 x 31.80 x 34.40	With sides	42	PRA1920TPL1	PRA1920THL1
PNC2089BNS	1991 x 799 x 899	78.37 x 31.46 x 35.40	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20810B	1991 x 808 x 999	78.37 x 31.80 x 39.34	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20810BNS	1991 x 799 x 999	78.37 x 31.46 x 39.34	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20811B	1991 x 808 x 1099	78.37 x 31.80 x 43.28	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20811BNS	1991 x 799 x 1099	78.37 x 31.46 x 43.28	Without sides	42	PRA1920TPL1	PRA1920THL1
PNC20812B	1991 x 808 x 1199	78.37 x 31.80 x 47.22	With sides	42	PRA1920TPL1	PRA1920THL1
PNC20812BNS	1991 x 799 x 1199	78.37 x 31.46 x 47.22	Without sides	42	PRA1920TPL1	PRA1920THL1

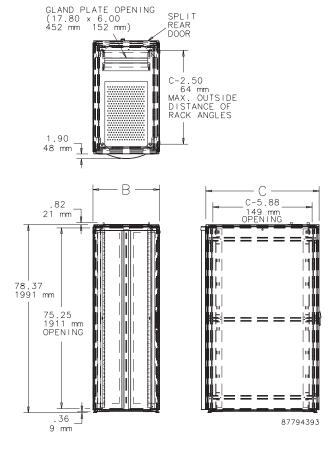


PROLINE® Communications Cabinets

Cable Fill Rate for Front Vertical Cable Manager-Each Side @ 60% Fill

		5E	6	6A
Cabinet Width	Cross Section Area	(.22-in. Diameter)	(.25-in. Diameter)	(.30-in. Diameter)
700 mm	17.24 in. ²	272	210	146
800 mm	34.48 in. ²	544	421	293







PROLINE® Network Switch Cabinet





Industry Standards

EIA 310-D

Application

PROLINE® Network Switch cabinet is a pre-engineered solution for the thermal and cable management needs of large data center network core switches. It is designed to meet Cisco 6509 and 6513 Series network switch requirements in data centers with a hot aisle/ cold aisle cabinet layout. (For other Cisco switch models, contact Hoffman for cabinet applications.) Cabinet provides for both patch cords and permanent link cables with support from vertical to horizontal transitions.

Features

- Meets all CISCO 6509 and 6513 Series network switch installation and operational requirements
- Integrated right-to-left airflow ducting ensures core switch is supplied with air from cold aisle
- Attractive, rigid front door made of aluminum extrusions and formed perforated steel, with more than 70 percent open space for free flow of cool air to equipment

- Front door has keyed multi-point vault-style latch system and central key lock to ensure security
- Split overlapping rear doors provide quick access to equipment without blocking aisles
- Rear upper-mounted 4 RU equipment mounting angles provide for PDUs, fiber-to-copper transition, splitter equipment and other 19-in. rack-mounted equipment
- Matching vertical and horizontal front patch cord cable management provides complete access and superior capacity for high-density applications
- Front vertical cable manager has integral hinged doors to house, protect and provide attractive appearance
- Front cable manager uses arrowhead support fingers to support and ensure proper bend radius, provide increased cable capacity and facilitate assembly
- Rear horizontal and vertical cable management provide support and transition of permanent link cables
- Available standard with sides or without for use in ganged applications
- Top-mount sliding gland plate provides large opening for cables, pre-terminated cable bundles and patch panels
- Open base allows under floor cable entry
- Network core switch shelf located at bottom of cabinet (2 RU)

Specifications

- Switch shelf is included with cabinet
- Front set of 19-in. mounting rails are tapped (10-32) per EIA standards
- Top and sides are formed steel
- Sides secured with fasteners

RAL 7021 black textured, low-gloss polyester powder paint over pretreated steel.

Load Rating

Switch shelf static load rating 500 lb. (227 kg). Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location, and
- its load is uniformly applied to the two sets of rack-mounting

Never move a cabinet with its maximum static load applied.

Contact Hoffman if further information is needed.

Bulletin: DPVD

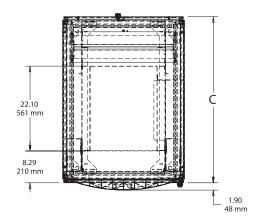
Standard Product

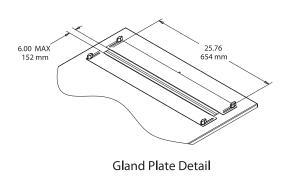
Catalog Number	AxBxC mm	AxBxCin.	Description
PNS20810B	1991 x 808 x 999	78.37 x 31.80 x 39.34	Switch Cabinet
PNS20810BNS	1991 x 799 x 999	78.37 x 31.46 x 39.34	Switch Cabinet, no sides
PNS20811B	1991 x 808 x 1099	78.37 x 31.80 x 43.28	Switch Cabinet
PNS20811BNS	1991 x 799 x 1099	78.37 x 31.46 x 43.28	Switch Cabinet, no sides
PNS20812B	1991 x 808 x 1199	78.37 x 31.80 x 47.22	Switch Cabinet
PNS20812BNS	1991 x 799 x 1199	78.37 x 31.46 x 47.22	Switch Cabinet, no sides

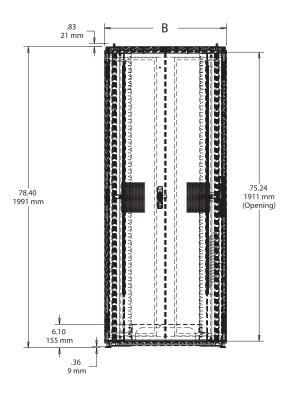
Cable Fill Rate for Front Vertical Cable Manager-Each Side @ 60% Fill

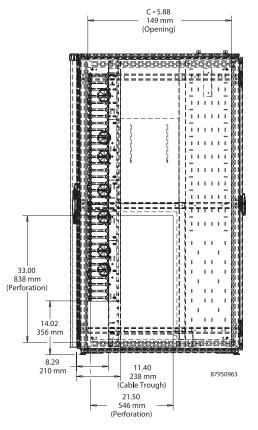
		5E	6	6A
Cabinet Width	Cross Section Area	.22-in. Diameter	.25-in. Diameter	.30-in. Diameter
800 mm	34.48 in. ²	544	421	293



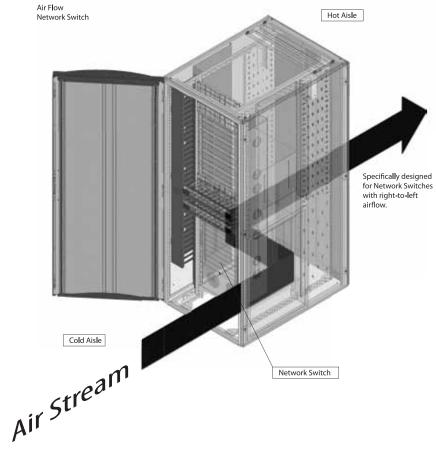


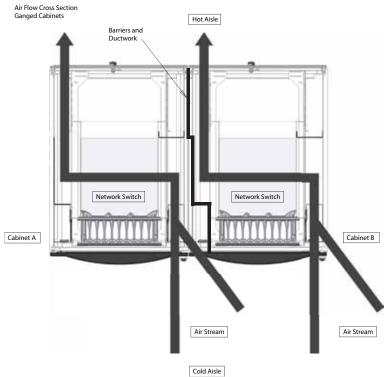












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Front View









Rear View











PROLINE® Voice/Data and Server Cabinet, Type 12





Industry Standards

EIA RS-310-D

UL 508A Listed; Type 12; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC, Type 12

Application

Robustly built and sealed for use in wet, dusty or hot environments, PROLINE® Type 12 Cabinets have optional cutouts to air condition voice/data equipment and servers.

Features

- Three-point locking handles on all doors provide easy but controlled access; two keys included
- Fully welded frame safely supports sensitive equipment
- Fully gasketed to keep contaminants away from equipment, reducing maintenance costs
- Two sets of 19-in. rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Mobile base provides easy placement of cabinet
- · Levelers and anti-tip bracket secure cabinet to the floor

Specifications

- Welded 12 gauge steel frame with integral struts
- Front window door made of 16 or 14 gauge steel with safety glass window
- Solid 16 or 14 gauge steel back door
- Standard package has solid 16 or 14 gauge steel sides
- AC package has cutout for easy in-the-field installation of any CR29 Series Air Conditioner (shipped separately)
- Models available with EIA Universal standard 3/8-in. square or 10-32 tapped holes
- Mobile base includes casters, levelers and gland plate
- · Gland plate allows easy routing of cable

Finish

Pretreated steel coated with RAL 9005 black or RAL 7035 lightgray textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- · it is in its final, permanent, fully secured location
- · its levelers are fully extended
- · the anti-tip bracket is installed
- its load is uniformly applied to the two sets of rack-mounting angles, and
- the casters are not supporting any load (use the casters only to move the cabinet to its final location before loading)

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Do not use casters to move a cabinet with more than 1000 lb. (453 kg) load. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid obstructions such as:

- large cracks
- floor displacement
- seams
- gravel

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

Accessories

See the Package Components table and, for AC Ready Cabinet, CR29 air conditioner specifications in the Thermal chapter. Air conditioner will be shipped separately. It cannot be factory installed.

Bulletin: DPC, DPSR

Standard Product

		· ·			Rack	Hole	
Catalog Number	AxBxC mm	AxBxC in.	Cabinet, Package Type	Finish	Units	Type	Rack Angle
PDCP2078B12	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, Standard	DataCom Black	42	Tapped	PRA1920TPL1
PDCP2078G12	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, Standard	PROLINE Gray	42	Tapped	PRA1920TPL1
PSC20610B12	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, Standard	DataCom Black	42	Square	PRA1920THL1
PSC20610G12	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, Standard	PROLINE Gray	42	Square	PRA1920THL1
PDCP2078BAC	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, AC Ready	DataCom Black	42	Tapped	PRA1920TPL1
PDCP2078GAC	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, AC Ready	PROLINE Gray	42	Tapped	PRA1920TPL1
PSC20610BAC	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, AC Ready	DataCom Black	42	Square	PRA1920THL1
PSC20610GAC	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, AC Ready	PROLINE Gray	42	Square	PRA1920THL1



Package Components

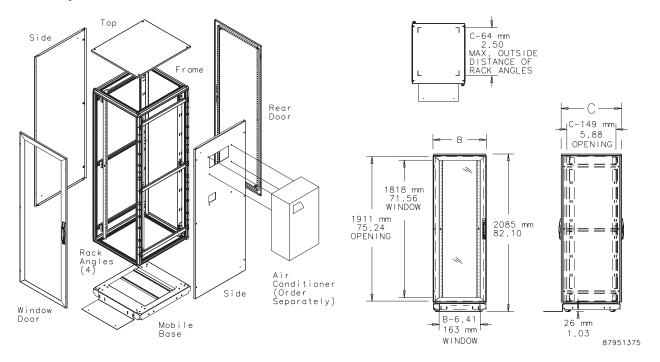
Catalog Number	AxBxC mm	AxBxCin.	Description	Finish
PFD2078B	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Black
PFD2078G	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Gray
PFD20610B	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Black
PFD20610G	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Gray
PDWG206B	2000 x 600	78.70 x 23.60	Window Doors	Black
PDWG206G	2000 x 600	78.70 x 23.60	Window Doors	Gray
PDWG207B	2000 x 700	78.70 x 27.60	Window Doors	Black
PDWG207G	2000 x 700	78.70 x 27.60	Window Doors	Gray
PDS206B	2000 x 600	78.70 x 23.60	Solid Doors	Black
PDS206G	2000 x 600	78.70 x 23.60	Solid Doors	Gray
PDS207B	2000 x 700	78.70 x 27.60	Solid Doors	Black
PDS207G	2000 x 700	78.70 x 27.60	Solid Doors	Gray
PSS208B	2000 x 800	78.74 x 31.50	Solid Sides	Black
PSS208G	2000 x 800	78.74 x 31.50	Solid Sides	Gray
PSS2010B	2000 x 1000	78.74 x 39.37	Solid Sides	Black
PSS2010G	2000 x 1000	78.74 x 39.37	Solid Sides	Gray
PSS208ACB	2000 x 800	78.74 x 31.50	Sides with AC Cutout	Black
PSS208ACG	2000 x 800	78.74 x 31.50	Sides with AC Cutout	Gray
PSS2010ACB	2000 x 1000	78.74 x 39.37	Sides with AC Cutout	Black
PSS2010ACG	2000 x 1000	78.74 x 39.37	Sides with AC Cutout	Gray
PT78B	700 x 800	27.56 x 31.50	Тор	Black
PT78G	700 x 800	27.56 x 31.50	Тор	Gray
PT610B	600 x 1000	23.62 x 39.37	Тор	Black
PT610G	600 x 1000	23.62 x 39.37	Top	Gray
PBMG78B	700 x 800	27.60 x 31.50	Mobile Base	Black
PBMG610B	600 x 1000	23.60 x 39.37	Mobile Base	Black

AC Ready PROLINE Cabinet

	BTUs	Watts
AC Ready PROLINE Cabinet	2200/4000	650/1172

For other AC sizes, contact Hoffman.

See Air Conditioner Sizing and CR Mid-Size Air Conditioners for details.



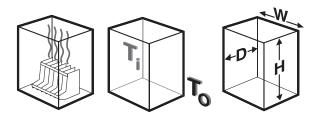


Thermal Management Sizing and Selection Software



Designed to assist you in determining the most suitable choices of air conditioners, heat exchangers or fans for your application. Download a free copy of our selection software by visiting our web site: hoffmanonline.com. Click on **Thermal Management** chapter.

Air Conditioner Sizing



Air conditioners are appropriate for applications in which:

- The temperature inside the enclosure must be maintained at or below ambient temperature.
- Humidity must be removed from the enclosure.
- Ambient air contaminants must be kept out of the enclosure.

The following air conditioner sizing procedure applies to uninsulated, sealed and gasketed enclosures in indoor locations.

Step 1. Determine the internal heat load in watts (W)

Add the maximum heat output specifications for all equipment to be installed in cabinet.

Conversion: 1 W = 3.413 BTU/hr.

Step 2. Determine the desired temperature difference (ΔT) between the ambient temperature and the temperature inside the

Subtract the desired maximum temperature inside the cabinet (T_i) from the maximum expected temperature (T_i) outside the cabinet. $T_0 - T_i = \Delta T$

Conversion: 1 K or C $\Delta T = 1.8 \text{ F} \Delta T$

Step 3. Determine the exposed surface area of the cabinet in square feet.

Use the following formula to determine area when H, W and D are the cabinet dimensions in inches.

 $2[(H \times W) + (H \times D) + (W \times D)] \div 144 = Area (ft.^2)$

Conversion: If dimensions are in millimeters, substitute 1,000,000 for 144. Then multiply the result by 10.76 to convert from m2 to ft.2

Step 4. Determine the air conditioner capacity required

Use the following formula:

(Watts x 3.413) + [(1.25 x Area in ft.2) x ΔT in F] = BTU/hr.

Required air conditioner capacity in BTU/hr.

Use this formula to determine the required cooling capacity needed to maintain the desired operating temperature for your enclosure. This selection procedure applies to uninsulated, sealed, gasketed enclosures in indoor locations.

All industrial air conditioners are rated at their maximum operating point. Operating an air conditioner at temperatures below maximum conditions will result in reduced cooling capacity. In other words, operating 95 F ambient and 95 F enclosure temperature results in a 10 percent to 20 percent reduction in the rated capacity.

Full cooling capacity is probably not necessary at lower ambient temperatures.



CR Mid-Size Air Conditioners



Industry Standards

UL/cUL Listed; File No. SA6453

CE

Maintains UL/cUL Type 12 rating when properly installed on a UL/cUL Type 12 rated enclosure.

Application

These air conditioners fit in the AC cutout provided in the AC-ready Voice/Data and Server Cabinet Packages. The air conditioners are shipped separately; they cannot be factory installed in the cabinets.

Closed Loop Cooling

Recirculated air inside the air conditioner is kept separate from the ambient airflow system. This protects the electronic controls and prevents shutdowns caused by heat, humidity, dust and other contaminants.

Features

- Thermostat control and EMI/RFI noise suppressor included
- Closed-loop cooling separates clean, recirculated air from ambient airflow system
- · Front cover hinges open for quick access to all components
- Filter can be inverted to double operating time between cleanings and/or filter replacement
- Filterless operation possible in many applications
- For a typical application, unique condensate management system evaporates moisture from enclosure
- High performance fans and blowers are ideal for densely packed enclosures
- All units use a universally accepted CFC-free or environmentally safe refrigerant
- Mounting hardware, gasket kit, mounting template and instruction manual furnished

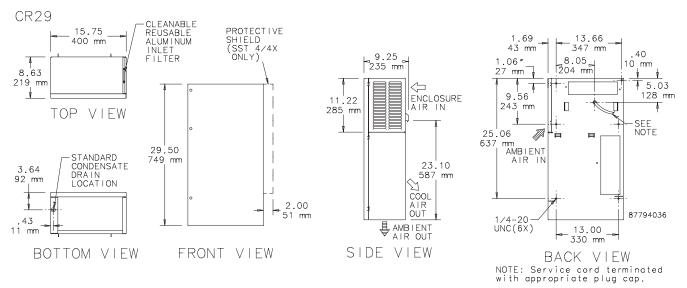
Finish

RAL 7035 light-gray polyester powder paint Bulletin: MCL

Standard Product

			'						Ship
				BTU/Hr.	Amps	BTU/Hr.	Amps	Max Amb.	Wt.
Catalog Number	Voltage	Hz	Phase	@ 131 F/131 F ^a	@ 131 F/131 F	@ 95 F/95 F ^a	@ 95 F/95 F	Temp. (F/C)	(lb./kg)
CR290216G002	115	50/60	1	2000/2200	7.4/7.4	1700/2000	7.0/6.0	131/55	98/44
CR290226G002	230	50/60	1	2500/2700	4.6/3.9	1900/2300	4.4/3.3	131/55	98/44
CR290416G002	115	50/60	1	3500/4000	13.5/13.5	2400/2800	10.7/9.6	131/55	118/54
CR290426G002	230	50/60	1	3500/4000	6.7/6.6	2400/2800	5.9/5.3	131/55	118/54

 $^{{}^}a Because air conditioners provide less cooling at lower operating temperatures, two cooling capacity ratings are provided. \\$





PROLINE® Voice/Data and Server Cabinets with Fan and Filter Package, Type 1



Industry Standards

EIA RS-310-D

UL508A Listed; Type 1; File No. E61997 cUL Listed per CŚA C22.2 No 94; Type 1; File No. E61997

Application

PROLINE® Voice/Data Server Cabinets are ideal for factory floors, warehouses and other remote locations that require filtration of ambient air to protect network equipment.

THERMAL PERFORMANCE

The thermal performance table is based on:

- Clean intake filters
- Pagoda top fan running at 600 CFM (17 cubic meters/minute)
- Equipment spaced to allow airflow (reduces "hot spot" potential) Actual performance may vary depending on equipment layout.

- Three-point locking handles on all doors provide easy but controlled access; two keys included
- Fully welded frame safely supports sensitive equipment
- Gasketed covers and air intake filters keep contaminants away from equipment, reducing maintenance cost

- · Two sets of 19-in. rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Fan and filter package provides up to 600 CFM of filtered air to help keep equipment cool
- Removable filters can be cleaned to maintain optimal performance
- Mobile base provides easy placement of cabinet
- · Levelers and anti-tip bracket secure cabinet to the floor

Specifications

- Welded 12 gauge steel frame with integral struts
- Front window door made of 16 or 14 gauge steel with safety glass window
- Solid 16 or 14 gauge steel back door
- Solid 16 or 14 gauge steel sides with factory-installed intake filters
- Pagoda top has 115 V fan with 6 ft. (1.8 m) cord. Fan capacity is 600 CFM (16.99 cubic meters/minute).
- Models available with EIA Universal standard 3/8-in. square or 10-32 tapped holes
- Mobile base includes casters, levelers and gland plate
- Gland plate allows easy routing of cable

Finish

Pretreated steel coated with RAL 9005 black or RAL 7035 light gray textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Load Rating

Static Load Rating: 2500 lb. (1134 kg)

A cabinet has a static load when:

- it is in its final, permanent, fully secured location
- its levelers are fully extended
- the anti-tip bracket is installed
- its load is uniformly applied to the two sets of rack-mounting angles, and
- the casters are not supporting any load (use the casters only to move the cabinet to its final location before loading)

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Do not use casters to move a cabinet with more than 1000 lb. (453 kg) load. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid obstructions such as:

- large cracks
- floor displacement
- seams
- gravel

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

Bulletin: DPC, DPSR

Standard Product

			Cabinet	'	Rack		Hole
Catalog Number	AxBxC mm	AxBxC in.	Type	Finish	Units	Rack Angle	Type
PDCP2078BFP	2203 x 708 x 799	86.74 x 27.87 x 31.46	Voice/Data	Black	42	PRA1920TPL1	Tapped
PDCP2078GFP	2203 x 708 x 799	86.74 x 27.87 x 31.46	Voice/Data	Light Gray	42	PRA1920TPL1	Tapped
PSC20610BFP	2203 x 608 x 999	86.74 x 23.94 x 39.34	Server	Black	42	PRA1920THL1	Square
PSC20610GFP	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server	Light Gray	42	PRA1920THL1	Square

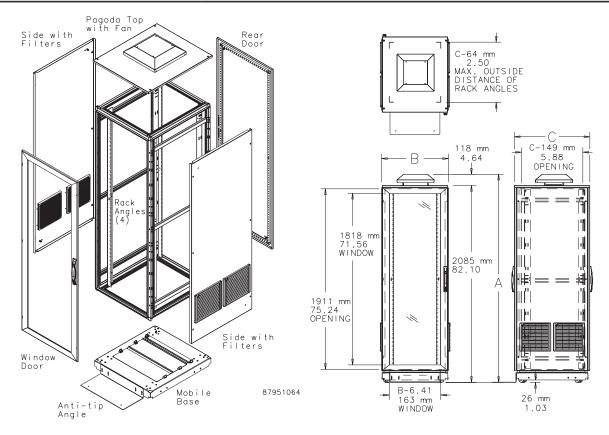


Package Components

Catalog Number	AxBxC mm	AxBxC in.	Description	Finish
PFD2078B	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Black
PFD2078G	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Gray
PFD20610B	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Black
PFD20610G	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Gray
PDWG206B	2000 x 600	78.70 x 23.60	Window Door	Black
PDWG206G	2000 x 600	78.70 x 23.60	Window Door	Gray
PDWG207B	2000 x 700	78.70 x 27.60	Window Door	Black
PDWG207G	2000 x 700	78.70 x 27.60	Window Door	Gray
PDS206B	2000 x 600	78.70 x 23.60	Solid Door	Black
PDS206G	2000 x 600	78.70 x 23.60	Solid Door	Gray
PDS207B	2000 x 700	78.70 x 27.60	Solid Door	Black
PDS207G	2000 x 700	78.70 x 27.60	Solid Door	Gray
PSS208FPB	2000 x 800	78.70 x 31.50	Sides	Black
PSS208FPG	2000 x 800	78.70 x 31.50	Sides	Gray
PSS2010FPB	2000 x 1000	78.70 x 39.37	Sides	Black
PSS2010FPG	2000 x 1000	78.70 x 39.37	Sides	Gray
PPTHP78B	700 x 800	27.60 x 31.50	Тор	Black
PPTHP78G	700 x 800	27.60 x 31.50	Тор	Gray
PPTHP610B	600 x 1000	23.60 x 39.37	Тор	Black
PPTHP610G	600 x 1000	23.60 x 39.37	Тор	Gray
PBMG78B	700 x 800	27.60 x 31.50	Mobile Base	Black
PBMG610B	600 x 1000	23.60 x 39.37	Mobile Base	Black

Cooling Capacity vs. Intake Temperature

	-	
Intake Air Temperature (°F)	Intake Air Temperature (°C)	Cooling Capacity (W)
70	21	3,500
76	24	3,000
80	27	2,000
85	29	1,500
Above 85	Above 29	Not recommended





Heat Dissipation in Electrical Enclosures

How to Dissipate Excess Heat (Watts) - Understanding ΔT and CFM

Watts = .316 x CFM x ΔT or CFM = Watts / (.316 x ΔT)

Factors in this equation will need to be de-rated for high elevations.

Watts: The heat load that network equipment needs to dissipate. Power coming into the cabinet equals the amount of heat load produced. "Power In = Heat Load Out." Alternatively, the heat load of a cabinet can be derived by measuring the Power being delivered to the network equipment directly via a Watt meter or by measuring the current in amps and multiplying by applied voltage.

CFM: The amount of airflow that is used to dissipate the heat produced by the network equipment. It is measured in CFM or "Cubic Feet per Minute." The more CFM the greater amount of heat that is removed or dissipated. On passive systems, the amount of CFM needed at the cold aisle for the intakes is the sum of all the network equipment (servers) installed in the cabinet and equals the total amount of CFM that is exhausted. "CFM in = CFM Out"

ΔT: Delta T is the air temperature difference between the network intakes and the exhaust or the difference between the temperatures of the Cold Aisle and the Hot Aisle. It represents the amount of heat that is carried away by the airstream (CFM). It is measured in °F for the equation stated above. A ΔT between 10 F and 30 F is typical for network equipment and data centers.

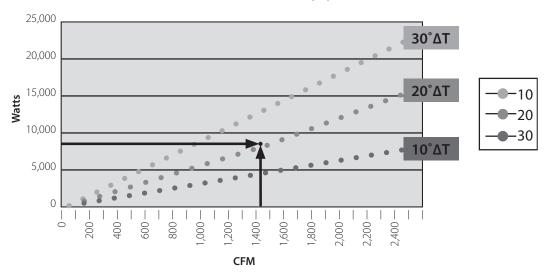
- By knowing any two factors, the other can easily be obtained.
- The Cold Aisle must always provide enough CFM to the intakes of the network equipment to avoid overheating.

Graphic Representation: Watts = .316 x CFM x ΔT (°F)

Example:

9164 Watts will need 1450 CFM at 20 F Δ T: 9164 = .316 x 1450 x 20

Watts = $.316 \times CFM \times \Delta T$ (°F)





Heat Dissipation in Electrical Enclosures

Notes



PROLINE®-CL Colocation Server Cabinet



Industry Standards

EIA 310-D

Standard Product				
		No. of	'	
Catalog Number	AxBxC mm/in.	Compartments	Rack Units	
PCLC2069B	1991 x 608 x 898	1	42	
	78.39 x 23.94 x 35.34			
PCL2C2069B	1991 x 608 x 898	2	20	
	78.39 x 23.94 x 35.34			

Application

PROLINE®-CL Colocation Cabinets are designed for secure data centers that store computer equipment for multiple customers. Standard components allow cabinets to be configured with up to four separate, secure compartments that can be reconfigured on-site as needs change. Each compartment has its own front and back access and is passively cooled by virtue of the overall cabinet design.

- · Doors have locking trigger latch for easy access plus security
- Integral floor bolt-down brackets provide quick, secure installation
- Cable entry and fan mounting provision on top and two access panels on right side facilitate mounting and wiring equipment

Dual compartment pre-assembled package also includes:

- Colocation frame shelf to divide the frame into two secure compartments
- Cable management system to isolate the wiring to each compartment
- Optional compact cooling fan

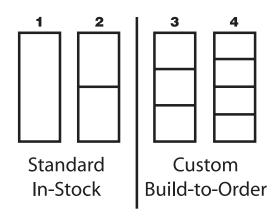
Specifications

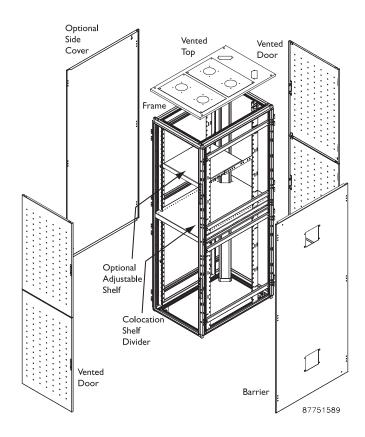
- · Welded 12 gauge steel frame
- 19-in. adjustable square hole, L-shaped rack angles front and rear
- Square holes spaced per EIA 310-D standards
- Front and rear vented 16 gauge steel door
- Optional 16 gauge vented window door with acrylic window
- Vented 16 gauge steel top
- 16 gauge right side barrier with two access plates

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Bulletin: DPSR







Sides for Colocation Cabinet Packages

Order two sides for each row of cabinets for a secure, finished appearance. Order barriers to go between cabinets. Sides are finished with RAL 9005 fine-textured black polyester powder paint.

Bulletin: DPC

l				NOIIIIII II X W
Catalog Number	Type	Fits Frame H x D	Nominal Height x Depth	in./mm
PS209VB	Vented	2000 x 900	1939 x 853	76.34 x 33.60
PS2010VB	Vented	2000 x 1000	1939 x 953	76.34 x 37.54
PBCL209B	Barrier	2000 x 900	1939 x 853	76.34 x 33.60
PBCL2010B	Barrier	2000 x 1000	1939 x 953	76.34 x 37.54

Colocation Cabinet Frames

Colocation cabinet frames are available in two sizes; the larger has a center divider to provide two separate compartments.

Bulletin: DPC

Catalog Number	AxBxC in./mm
PF2069CLB	78.70 x 23.60 x 35.40
	2000 x 600 x 900
PF20610CLB	78.70 x 23.60 x 39.40
	2000 x 600 x 1000

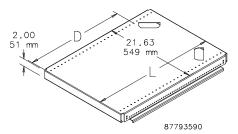
Maminal II .. W



Colocation Divider Shelf

Provides a barrier that maintains security between compartments in colocation applications. Made of 14 gauge steel. Provides mounting surface for adjustable L-shaped rack angles. RAL 9005 black textured polyester paint finish. Load rating is 150 lb. (68 kg).

Bulletin: DPC



			Fits PROLINE
	L	D	Enclosure Size
Catalog Number	mm/in.	mm/in.	mm/in.
PFSHCL69B	842	680	600 x 900 (23.62 x 36.43)
	33.14	26.77	
PFSHCL610B	942	780	600 x 1000 (23.62 x 39.37)
	37.08	30.75	

Colocation Power Cable and Data Cable Way



Cable ways provide a means for distributing power or data connections to each compartment in an isolated fashion. Nonmetallic light-gray composite material. Both kits include cable runway with cover and two end caps with cable knockouts. Power Cable Way Kit also includes four dual category 5 RJ45 connectors and cover plates.

Bulletin: DPC

Catalog Number	Type	Connectors	Length
PCLCMP	Power	6 duplex outlet boxes with covers	2000
PCLCMD	Data	4 dual category 5 RJ45 connectors and cover plates	2000



Colocation Cabinet External Components

Colocation cabinet external options include vented doors, with and without a window, vented tops and sides, a barrier side, a locking latch kit, a cooling fan and a fan finger guard.

Bulletin: D85, DPC

PROLINE-CL Colocation Cabinet Vented Doors

			Nominal H x W
Catalog Number	Door Type	Fits Frame H x W	mm/in.
PD206VB	Full	2000 x 600	1939 x 592
			76.34 x 23.30
PD206V2B	1/2	2000 x 600	967 x 592
			38.08 x 23.30
PD206V3B	1/3	2000 x 600	643 x 592
			25.32 x 23.30
PD206V4B	1/4	2000 x 600	481 x 592
			18.94 x 23.30

PROLINE-CL Colocation Cabinet Vented Window Doors

			Nominal H x W	Window H x W
Catalog Number	Door Type	Fits Frame H x W	mm/in.	mm/in.
PDW206VB	Full	2000 x 600	1939 x 592	1805 x 370
			76.34 x 23.30	71.08 x 14.55
PDW206V2B	1/2	2000 x 600	967 x 592	833 x 370
			38.08 x 23.30	32.81 x 14.55
PDW206V3B	1/3	2000 x 600	643 x 592	509 x 370
			25.32 x 23.30	20.06 x 14.55
PDW206V4B	1/4	2000 x 600	481 x 592	347 x 370
			18 94 x 23 30	13 68 x 14 55

PROLINE-CL Colocation Cabinet Vented Top

		Nominal W x D
Catalog Number	Fits Frame Top W x D	mm/in.
PTCL69B	600 x 900	592 x 899
		23.30 x 35.39
PTCL610B	600 x 1000	592 x 999
		23.30 x 39.32

Locking Latch, Fan and Finger Guard

Catalog	•	
Number	Description	Includes
PTKLDC	Individually Keyed Locking Latch Set, fits all DataCom doors	Two latches and two keys
A4AXFNPG	4-in. Compact Cooling Fan, 115V, 50/60 Hz	One finger guard and power cord
AGARD4	Finger Guard	Use on 4-in. Compact Cooling Fan

Colocation Cabinet Internal Components

Available colocation cabinet internal components customize the enclosure.

Bulletin: DPC

L-Shaped, Square Hole Rack Angles

		Height	Fits Frame Height	
Catalog Number	Door Style	mm/in.	mm/in.	Rack Units
PRA1920THL1	Full	1905	2000	42
		75.00	78.74	
PRA1920THL2	1/2	914	2000	20
		36.00	78.74	
PRA1920THL3	1/3	594	2000	13
		23.38	78.74	
PRA1920THL4	1/4	419	2000	9
		16.50	78.74	



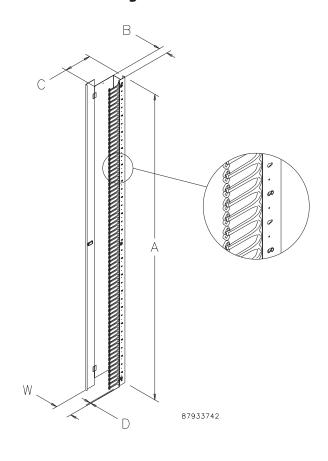
PROLINE® CABLETEK™ Vertical Cable Manager



For routing and bundling cable inside 700- and 800-mm wide PROLINE® cabinets. Variety of sizes provide mounting flexibility. Mounts between frame and rack angle so equipment can be centered or aligned on one side. Replaces reducing brackets that bridge space between cabinet and equipment and allows frontto-back adjustment of rack angles. Latching hinged door on front conceals wiring yet allows easy access. Movable plastic spools or fingers help manage cables. 14 and 16 gauge steel with RAL 9005 black polyester powder paint finish.

Bulletin: DPY

		D	W	Fits Cabinet
Catalog Number	AxBxC mm/in.	mm/in.	mm/in.	Height
PVF127	1067 x 50 x 222	13	85	1200
	42.02 x 1.97 x 8.75	.50	3.36	
PVF128	1067 x 100 x 222	13	135	1200
	42.02 x 3.94 x 8.75	.50	5.33	
PVF207	1867 x 50 x 222	13	85	2000
	73.52 x 1.97 x 8.75	.50	3.36	
PVF208	1867 x 100 x 222	13	135	2000
	73.52 x 3.94 x 8.75	.50	5.33	



PROLINE® CABLETEK™ Reducing Brackets



Fingers separate, support and manage cable. Bracket mounts on either left or right side of 700- and 800-mm cabinets between the frame and the rack angle to create vertical wiring space. Bracket has RAL 9005 black polyester powder paint finish. Fingers are molded black plastic. Mounting hardware included.

NOTE: Refer to the table below to calculate the number of reducing brackets required.

Bulletin: DPY

			Fits Cabinet Height	
Catalan Namahan	Height	Width	·	
Catalog Number	mm/in.	mm/in.	mm/in.	
PRBF125	1091	50	1200	
	42.97	1.91		
PRBF1210	1091	100	1200	
	42.97	3.88		
PRBF205	1892	50	2000	
	74.47	1.91		
PRBF2010	1892	100	2000	
	74.47	3.88		

Number of reducing brackets required to accommodate 19and 23-in. equipment in different cabinet widths

Nominal Bracket	No. of Reducing Brackets	No. of Reducing Brackets
Width 50	(19 in. equipment)	(23 in. equipment)
30	2	700
50	_	2
		800
100	1	_
		700
100	2	1
		800

 $Support finger \, reducing \, brackets \, required \, to \, accommodate \, 19-in. \, and \, 23-in. \, equipment \, in \, different \, cabinet$ widths



PROLINE® Tie-Down Reducing Bracket



Provides convenient tie down for vertical or horizontal cable management. Allows front-to-back cable pass through. Supports optional D-Rings and wire management spools. Bracket mounts on either left or right side of 700- and 800-mm cabinets between the frame and the rack angle to create vertical wiring space. Bracket has RAL 9005 black polyester powder paint finish. Mounting hardware and 10 VELCRO® Cable Wraps included.

NOTE: Refer to the table below to calculate the number of reducing brackets required.

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Bulletin: DPY

	11.1.1.4	W. Id	Fits Cabinet
Catalog Number	Height mm/in.	Width mm/in.	Height mm/in.
PRBTD125	1091	50	1200
	42.97	1.91	
PRBTD1210	1091	100	1200
	42.97	3.88	
PRBTD205	1892	50	2000
	74.47	1.91	
PRBTD2010	1892	100	2000
	74.47	3.88	

Number of reducing brackets required to accommodate 19- and 23-in. equipment in different cabinet widths

Nominal	No. of	No. of
Bracket	Brackets	Brackets
Width	(19 in. equipment)	(23 in. equipment)
50	2	_
		700
50	_	2
		800
100	1	_
		700
100	_	1
		800

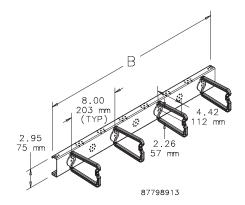
Front-to-Back D-Ring Bracket



Manages cable routed between front and back of cabinet. Can be used with optional Universal D-Ring Brackets or Transition Brackets for increased flexibility in managing cables. Mounts to PROLINE frame. Secures cable with D-Rings that snap open and closed for secure routing with easy access for wiring changes. D-Rings can be oriented for vertical, front-to-back or side-to-side cable management. RAL 9005 black polyester paint finish. Includes D-Rings and mounting hardware.

Bulletin: DPY

	Number of	В	Fits Enclosure Depth
Catalog Number	D-Rings	mm/in.	mm/in.
PFBDR8	3	640	800
		25.20	31.50
PFBDR9	3	740	900
		29.13	35.43
PFBDR10	4	840	1000
		33.07	39.37
PFBDR11	5	940	1100
		37.01	43.31
PFBDR12	5	1040	1200
		40.95	47.24



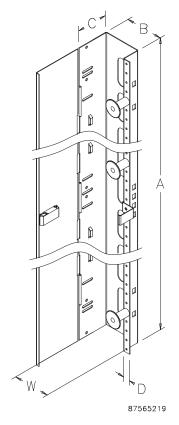


Vertical Cable Manager for 700- and 800-mm Wide Cabinets



For routing and bundling cable inside 700- and 800-mm wide PROLINE® cabinets. Variety of sizes provides mounting flexibility. Mounts between frame and rack angle so equipment can be centered or aligned on one side. Replaces reducing brackets that bridge space between cabinet and equipment and allows frontto-back adjustment of rack angles. Latching hinged door on front conceals wiring yet allows easy access. Movable plastic spools help manage cables. 14 and 16 gauge steel with RAL 9005 black polyester powder paint finish.

Bulletin: DPY



Standard Product

	'						Fits Cabinet
Catalog Number	AxBxC mm	AxBxCin.	D (mm)	D (in.)	W (mm)	W (in.)	Height (mm)
PVCM167	1467 x 50 x 98	57.77 x 1.97 x 3.87	41	1.60	85	3.36	1600
PVCM168	1467 x 100 x 98	57.77 x 3.94 x 3.87	41	1.60	135	5.33	1600
PVCM187	1690 x 50 x 98	66.52 x 1.97 x 3.87	41	1.60	85	3.36	1800
PVCM188	1690 x 100 x 98	66.52 x 3.94 x 3.87	41	1.60	135	5.33	1800
PVCM207	1867 x 50 x 98	73.52 x 1.97 x 3.87	41	1.60	85	3.36	2000
PVCM208	1867 x 100 x 98	73.52 x 3.94 x 3.87	41	1.60	135	5.33	2000
PVCM227	2090 x 50 x 98	82.27 x 1.97 x 3.87	41	1.60	85	3.36	2200
PVCM228	2090 x 100 x 98	82.27 x 3.94 x 3.87	41	1.60	135	5.33	2200
PVCMX127	1067 x 50 x 159	42.02 x 1.97 x 6.27	102	4.00	85	3.36	1200/2200
PVCMX128	1067 x 100 x 159	42.02 x 3.94 x 6.27	102	4.00	135	5.33	1200/2200
PVCMX207	1867 x 50 x 159	73.52 x 1.97 x 6.27	102	4.00	85	3.36	2000
PVCMX208	1867 x 100 x 159	73.52 x 3.94 x 6.27	102	4.00	135	5.33	2000

Use the "Cable Managers by Width" table to determine the number of cable managers required for different combinations of cable manager, cabinet and equipment widths.

Cable Manager by Width

		No. of	No. of
Cable		Cable	Cable
Manager	Cabinet	Managers	Managers
Width (B) (mm)	Width (mm)	(19 in. equipment)	(23 in. equipment)
50	700	2	_
50	800	_	2
100	700	1	_
100	800	2	1

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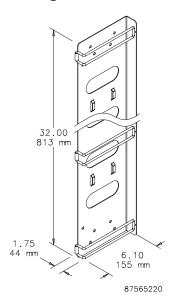
Vertical Cable Manager I



For routing and bundling cable inside cabinets. Stack two units for full vertical runway on 1800-mm or taller enclosures. Wireform gate hinges open to ease wire routing. Mounts to grid strap or frame in front of rack angles. Narrow profile does not interfere with 19-in. equipment in 600-mm wide enclosures. 16 gauge steel with RAL 9005 black polyester powder paint finish.

Bulletin: DPY

Catalog Number	Description
PVCM1	Vertical Cable Manager 1



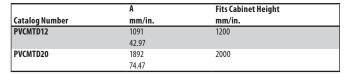
Vertical Tie-Down Cable Manager

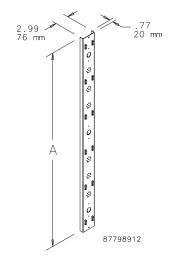


This one-piece cable manager provides mounting holes for D-Rings, spools, universal transition brackets and other accessories (order separately). RAL 9005 black polyester powder paint finish. Includes hardware for mounting to strut and 10 VELCRO® Cable Wraps for fastening cable.

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Bulletin: DPY







Basket Tray



The Basket Tray mounts horizontally left-to-right in the PROLINE® frame. It can be installed either at the bottom of the frame or to the mounting strut and can provide an internal cable runway in a row of cabinets. Large 51 x 102-mm (2 x 4-in.) mesh allows cable installers to route cables in or out at any point. Made of plated high strength steel wire. Includes mounting hardware.

Bulletin: DPY

	Basket Size	Fits Cabinet Width	
Catalog Number	mm/in.	mm/in.	
PBTA6	51 x 102	600	
	2.00 x 4.00	23.62	
PBTA7	51 x 102	700	
	2.00 x 4.00	27.56	
PBTA8	51 x 102	800	
	2.00 x 4.00	31.50	
PBTB6	51 x 457	600	
	2.00 x 18.00	23.62	
PBTB7	51 x 457	700	
	2.00 x 18.00	27.56	
PBTB8	51 x 457	800	
	2.00 x 18.00	31.50	

Universal Power Strip Bracket



This bracket fits in the corner of the frame of all PROLINE®cabinets and facilitates mounting a variety of power strips.

Bulletin: DACCY

Catalog Number	Description
EPDUBK	Universal Power Strip Bracket fits all PROLINE cabinets
	'

Horizontal Cable Trough



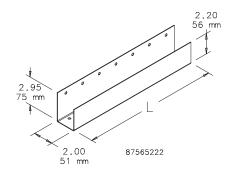
For routing cable front-to-back in a server or data cabinet. Mounts to side or top of 1- or 3-row grid strap. Can also mount directly to mounting channels with APSM6CN Mounting Kit. Multiple units can be used together. 16 gauge steel with RAL 9005 black polyester powder paint finish.

Bulletin: DPY

Catalog Number	Description	L (mm)	L (in.)
PHCT1	Horizontal Cable Trough	200	7.87

Catalog Number	Description	L (mm)	L (in.)
PHCT2	Horizontal Cable Trough	350	13.78
PHCT3	Horizontal Cable Trough	500	19.69
PHCT4	Horizontal Cable Trough	650	25.59

Order APSM6CN Mounting Kit separately for channel mounting.





Strut Cable Rings



Frame Tie-Down Bracket



Cable and PDU Manager



PROLINE® Cabinet Cable Managers

Cable Ring snaps into the strut for easy installation. Can be positioned vertically or horizontally. Ring snaps open and closed to easily position cables. It can be drawn down to snugly bundle cables. Made of durable black plastic. Easy to install and add cable at any

Bulletin: DACCY

		Adj.		
		Range	Capacity at	Pkg.
Catalog Number	Description	mm/in.	Max. Size	Qty.
ECM2S10	2-in. Strut Cable Ring	44-25	26 CAT 6 cables	10
		1.75-1.00		
ECM4S10	4-in. Strut Cable Ring	1224-64	120 CAT 6 cables	10
		3.75-2.50		

The PROLINE® Frame VELCRO® Tie-Down Bracket provides an easy means to secure and bundle cables using any of the frame's rectangular holes. The bracket can be positioned parallel or perpendicular to the frame and needs no tools to install—just push into any hole and twist to fasten. Proper bend radius is easily maintained with the flexible Velcro tie-down, plus it provides easy initial and future cable installations. Bracket is made of a durable plastic. Both tie-down and bracket are black.

VELCRO is a trademark of VELCRO Industries B.V.

Bulletin: DPY

		Capacity at	Pkg.
Catalog Number	Description	Max. Size	Qty.
PCMFTD10	10-in. Velcro™ tie downs	55 CAT 6 cables	10

PROLINE® combination vertical cable manager provides increased versatility for power and cable management for 2000-mm tall frames. Tool-less mounting with key hole slots accept many vertical PDUs (APC, Geist, etc.). Flush arrowhead cutouts provide convenient cable manager tie-down points. Hardware and ten VELCRO® cable wraps included. Finished with RAL 9005 black polyester powder finish. *VELCRO is a trademark of Velcro Industries B.V.*

Bulletin: DPY

Catalog Number	AxBxC mm/in.	Fits Height
PVCPM20	1892 x 76 x 19	2000 mm
	74.47 x 3.00 x 0.75	





Permits joining two enclosure frames while maintaining an environmental seal.

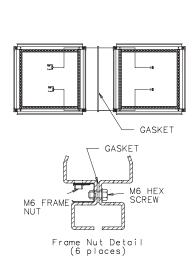
Side-to-Side Joining Kit consists of six frame nuts and screws, as well as gasket material to maintain a dust-tight and water-tight seal between ganged frames. Can be used if rack angles are not in the front or rearmost positions or if a subpanel is not in the rearmost position.

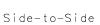
Alternate Joining Kit consists of three standoffs, six frame nuts and screws, as well as gasket material. This kit facilitates frame joining when rack angles are in the front or rearmost position, or if a subpanel is in the rearmost position.

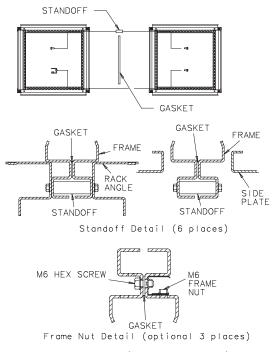
Front-to-Back Joining Kit permits front-to-back joining of two single-bay enclosures. This kit does not fit 1200-mm or 1600-mm wide frames.

Bulletin: P20, P20EM

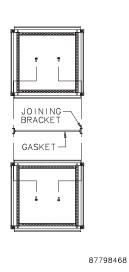
Catalog Number	Description
PJ2F	Standard Frame Joining, Side-to-Side
PJ2FD	Standard Frame Joining, Side-to-Side, Nongasketed
PJ2FHF2	EMC Standard Frame Joining, Side-to-Side
PJ2FF	Alternate Frame Joining, Side-to-Side
PJ2FBF	Frame Joining, Front-to-Back











Front-to-Back

L Joining Bracket



A-T-O

The L Joining Bracket, made of 10 gauge steel, is used in conjunction with the standard joining kit as additional support. Pictured hardware is included.

Bulletin: P20

Catalog Number	Description
PJB2F	L Joining Bracket



Frame Feet









Four die-cast feet for use on the bottom of PROLINE® frames that raise the frame 9 mm.

Bulletin: P20

Catalog Number	Description	
PFFM12	Frame Feet	
	9 mm 36	
	.50	
	40 mm	

87798469

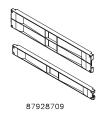
Tool-less (Snap-in) Blanking Panels for 19-in. Racks



These Tool-less 19-in. Blanking Panels provide easy tool-less installation and ensure proper airflow to equipment. Made of black composite material and can be used with tapped or square EIA universal spaced rack mounting angles.

Bulletin: DACCY

		Rack		Pkg.
Catalog Number	Description	Units	Fits	Qty.
D19BPT1RU	Blanking Panel, 19 in.	1	19 in., universal rack spacing, tapped or square holes	10
D19BPT2RU	Blanking Panel, 19 in.	2	19 in., universal rack spacing, tapped or square holes	10



Levelers





Four post-type levelers allow adjustment for uneven floors. Levelers can be attached to the bottom of a frame or to a 0-mm solid base. Levelers are plated and the leveler base is capped with plastic to provide resistance to marring. Adjustable for 17-mm to 35-mm height. Ball and socket construction. Four levelers will support a maximum of 453.6 kg (1000 lb.).

Bulletin: P20

Catalog Number	Description		
PLM12	Post-type Levelers		
	M12X26		
	87415118		
	40 mm 1.57		

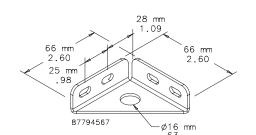
PROLINE® Frame Floor-Mounting Bracket



Provides a structural method of bolting a PROLINE® frame to the floor. Fits all frame sizes. Made of 12 gauge steel with plated finish. Kit includes four brackets and mounting hardware.

Not for use on colocation frames, which include welded-in floor mounting brackets.

Bulletin: DPY



Description

PROLINE Frame Floor-Mounting Bracket

Catalog Number



Grounding Bar System



Industry Standards

UL Component Recognized; File No. E61997

Three sizes of grounding bars and insulated mounting brackets are available. Bars are plated copper with M6 and M5 tapped holes to provide a common point for grounding equipment. Fits all enclosures if mounted vertically. See table for horizontal mounting.

		Length	Number of Holes and	Number of Holes and
Catalog Number	Description	mm/in.	Screws M6	Screws M5
PGS2K	Fits 400-mm deep frame	200	3/5	10/10
	front to back horizontally	7.87		
PGS4K	Fits 600-mm deep frame	400	9/11	20/20
	front to back horizontally	15.75		
PGS6K	Fits 800-mm deep frame	600	15/17	30/31
	front to back horizontally	23.62		

PROLINE® Grounding Kit



The Grounding Kit allows a PROLINE® enclosure to be grounded to VDE specifications. Includes six 12 gauge wires 411-mm (16.19-in.) long with ring terminations and M6 mounting hardware.

Bulletin: P9

		Length Between	Ring Terminal
	Wire	Ring Terminals	Hole Diameter
Catalog Number	Size	mm/in.	mm/in.
PGK	12 ga.	411	7
		16.19	.29

Caster Kit





A set of four casters (two locking, two non-locking) that mount directly to the bottom of a PROLINE® frame, 0-mm, or 100-mm Solid Base or a Console. (Do not use on plinth bases.) Casters elevate the enclosure 110 mm (4.33 in.) when installed. Caster frames are plated steel with ball-bearing pivots. Caster wheels are made of a black polyamide material. Kit includes M12 mounting hardware. Order separately.

Casters Maximum Load: 1000 lb. (453 kg)

Exercise care when using casters to move the cabinet. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid:

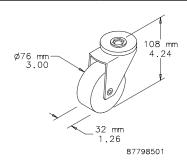
- large cracks
- floor displacement
- seams
- gravel
- any other obstruction

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

Bulletin: P20

Catalog Number	Description
PC1M12	Set of 4 Casters





Screw Packages



Screw Packages are for mounting rack panels and equipment to rack angles.

Bulletin: A80, DACCY, X20

Catalog Number	Color	Description	Pkg. Qty.
ES1224	Silver	12-24 x 5/8 in. combo head	20
ES1224250	Silver	12-24 x 5/8 in. combo head	250
ES1224B	Black	12-24 x 5/8in. combo head	20
ES1224B250	Black	12-24 x 5/8 in. combo head	250
ASM5	Silver	M5 x 20 mm Combo Head	20
ASM6	Silver	M6 x 16 mm combo head	20
ASM5T	Silver	M5 x 12 mm thread-forming Phillips hex head screws	20
ASM6250	Silver	M6 x 16 mm combo head	250
AS1032	Silver	10-32 x 5/8 in. combo head	20
AS1032250	Silver	10-32 x 5/8 in. combo head	250
AS1032B	Black	10-32 x 5/8 in. combo head	20

Use ASM5T on PROLINE® frame or Net Series extruded holes.

Cage Nut Package



Cage Nut Packages are for use with square-hole rack angles. Cage nuts are plated steel.

Bulletin: DACCY, P20

Catalog Number	Color	Description	Pkg. Qty.
PM5CN	Silver	M5 cage nut	20
PM6CN	Silver	M6 cage nut	20
PM6CN250	Silver	M6 cage nut	250
P1032CN	Silver	10-32 cage nut	20
P1032CN250	Silver	10-32 cage nut	250
P1224CN	Silver	12-24 cage nut	20
P1224CN250	Silver	12-24 cage nut	250

Mounting Channel







Side-to-Side

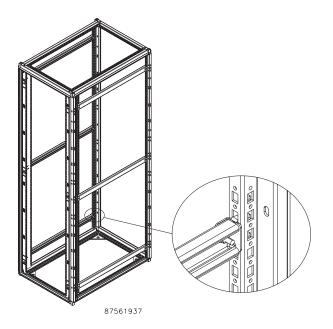
Vertical and Horizontal

Full Height

Allows rack angles and other accessories to be positioned at any depth within the cabinet. Rails mount front to back in PROLINE® frame. 14 gauge steel with RAL 9005 black polyester powder paint finish. Includes two rails, mounting hardware and four M6 spring nuts for mounting accessories. Use hardware kit APSM6CN (package of 20 screws, washers and spring nuts) for mounting additional rack angles or other accessories to the mounting channels.

Bulletin: DPY

Catalog Number	Description	Fits Frame Depth
PMU8B	Mounting Channel	800
PMU9B	Mounting Channel	900
PMU10B	Mounting Channel	1000
PMU11B	Mounting Channel	1100
PMU12B	Mounting Channel	1200
APSM6CN	Mounting Channel Hardware Kit	_





PROLINE® Fastener Packages





Use to fasten components to the grid system. PGF Packages include 20 front-loading clip nuts (M6) and 20 combination-drive washer-head bolts (M6).

Grounding Package is used with the rectangular holes in the PROLINE® frame to provide electrical continuity between the frame and the grid system. ASM5T Package is used with PROLINE frames having round holes. Package includes 20 M5 self-tapping screws.

Bulletin: DACCY, P20

Catalog Number	Description	Use in	Pkg. Qty.
ASM5T	M5 x 12 mm thread-forming Phillips hex head screws	Round holes	20
PGFM6	Standard Package - M6 cage nuts and bolts	Rectangular holes	20
PGFGM6	Grounding Package - M6 grounding cage nuts and bolts	Tapped holes	20

PROLINE® Side Barrier Panels

Side barriers are used between frames to block airflow and provide security between ganged PROLINE® cabinets. Barriers fasten to one frame and allow fasteners to secure adjoining frames. All hardware is provided. Finished with RAL 9005 black polyester powder paint. **Bulletin: DPY**

Catalog Number	AxBxC in./mm	Fits Frame Depth
PB209B	76.34 x 33.59 x 1.00	900
	1939 x 853 x 25	
PB2010B	76.34 x 37.52 x 1.00	1000
	1939 x 953 x 25	
PB2011B	76.34 x 41.46 x 1.00	1100
	1939 x 1053 x 25	
PB2012B	76.34 x 45.40 x 1.00	1200
	1939 x 1153 x 25	

19-in. and 23-in. Rack Angles

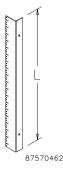


Made of 14 gauge steel with square holes or 12 gauge steel with 10-32 tapped holes. Provides 19-in. rack spacing when mounted in 600-mm wide frames, and 23-in. rack spacing when mounted in 700mm wide frames. Use with frame reducing brackets to provide 19-in. or 23-in. spacing in 700-mm or 800-mm wide frames. Sizes available for multi-compartment colocation applications. Finish is black RAL 9005 polyester powder paint with flat finish. Furnished in pairs. The standard rack angle position is 44 mm behind the door opening.

Rack angles can be moved forward if desired. Deeper positions require the use of grid straps or mounting channels. For joining cabinets with rack angles in the full forward position, use Joining Kit PJ2FF. Shelves, drawer, guides and pull-out shelves require two sets of rack angles or frame accessory brackets installed in the frame.

For 700- and 800-mm wide cabinets, reducer or cable manager must be ordered.

Bulletin: DPC



				Fits Frame/Cabinet	Rack	Length	Length
Catalog Number	Hole Type	Description (in.)	Use With	Height (mm)	Units	(mm)	(in.)
PRA1912THL1	Square	19	PROLINE® DataCom Packages	1200	24	1091	42.97
PRA1916TPL1	Tapped	19	PROLINE® DataCom Packages	1600	33	1491	58.72
PRA1918THL1	Square	19	PROLINE® DataCom Packages	1800	38	1691	66.59
PRA1918TPL1	Tapped	19	PROLINE® DataCom Packages	1800	38	1691	66.59
PRA1920THL1	Square	19	PROLINE® DataCom Packages	2000	42	1892	74.47
PRA1920TPL1	Tapped	19	PROLINE® DataCom Packages	2000	42	1892	74.47
PRA192320THL1	Square	19 & 23	PROLINE® DataCom Packages	2000	42	1892	74.47
PRA1922THL1	Square	19	PROLINE® DataCom Packages	2200	47	2091	82.34
PRA1922TPL1	Tapped	19	PROLINE® DataCom Packages	2200	47	2091	82.34
PRA192322THL1	Square	19 & 23	PROLINE® DataCom Packages	2200	47	2091	82.34



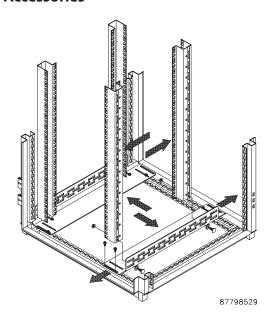
Adjustable Rack-Mounting Rails



Mounting rails allow rack angles to be positioned anywhere within the PROLINE® frame. The left-to-right adjustment pertains only when the enclosure is wider than the minimum width required for rack angles. Includes two right-hand and two left-hand 12 gauge plated or painted steel mounting rails. Mounting hardware is included.

Bulletin: DPY, P20

Catalog Number	L (mm)	L (in.)	Fits Frame Depth	Finish
PBARA6	511	20.11	600	Plated
PBARA8	711	27.98	800	Plated
PBARA9	811	31.92	900	Plated
PBARA9B	811	31.92	900	Painted RAL 9005 Black
PBARA10B	911	35.86	1000	Painted RAL 9005 Black
PBARA11B	1011	39.79	1100	Painted RAL 9005 Black
PBARA12B	1111	43.73	1200	Painted RAL 9005 Black

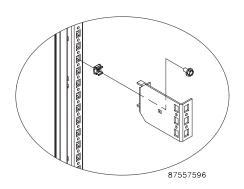


Frame-Reducing Brackets for Frames or Grid Straps ATLO

Frame-Reducing Brackets mount directly to 700- or 800-mm wide PROLINE® frames or to grid straps. Converts wider frames to 600-mm wide, allowing 19-in. rack angles to fit, or to 700-mm wide, allowing 23-in. rack angles to fit. Can be used to left- or right-justify the rack-mounted equipment. Furnished in sets of four. 14 gauge plated steel. Mounting hardware is included.

Bulletin: P20

Catalog Number	Reduces Frame Width	W (mm)	W (in.)	Converts Frame Width
PRB50	50	50	1.97	From 700 to 600 From 800 to 700 mm
PRB100	100	100	3.94	From 800 to 600 From 800 to 700 From 700 to 600 mm
PRB200	200	200	7.87	From 1000 to 600 From 1000 to 800 From 800 to 600 mm



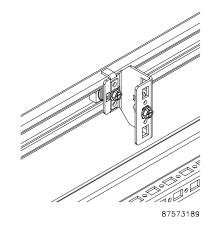


Frame-Reducing Brackets for Frames or Mounting Channel

Frame-reducing brackets mount directly to 700-mm or 800-mm wide PROLINE® frames or to mounting channel. Convert wider frames to 600-mm wide, allowing 19-in. rack angles to fit, or to 700-mm wide, allowing 23-in. rack angles to fit. Can be used to left- or right-justify the rack-mounted equipment. Made of 14 gauge steel painted with flat-black RAL 9005 polyester powder. Furnished in sets of four. Mounting hardware is included.

Bulletin: DPY

Catalog	Reduces Frame	W	W	
Number	Width	(mm)	(in.)	Converts Frame Width
PMURB50	50	50	1.97	From 700 to 600, From 800 to 700
PMURB100	100	100	3.94	From 800 to 600, From 800 to 700, From 700 to 600



Frame Reducing Bracket Selection Guide

	Setting 19 in.	Setting 19 in. Left	Setting 23 in.
PROLINE Frame Width	Centered	or Right	Centered
600 mm (23.60)	No reducing	No reducing	_
	brackets	brackets	
700 mm (27.60) with grid straps	PRB50	PRB 100	No reducing brackets
700 mm (27.60) with mounting channel	PMURB50	PMURB100	No reducing brackets
800 mm (31.50) with grid straps	PRB100	PRB200	PRB50
800 mm (31.50) with mounting channel	PMURB100	_	PMURB50

180-Degree Hinge Kit





Optional hinging for steel solid, window or disconnect doors. The 180-degree hinges provide a door opening up to 260-degrees on single-bay enclosures. These hinges mount to the door flange and have a low-profile appearance. The kit includes three hinges with textured black polyester powder paint and all necessary mounting hardware. Cannot be used on PROLINE® FLOTEK™ or CONNECTEK™ front doors.

Bulletin: P20

Catalog Number	Description
PH180	180-Degree Hinge Kit

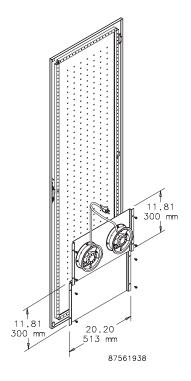
Door-Mount Fan Tray and Blocking Plate

The Door-Mount Fan Tray is used with perforated PROLINE® doors to blow air through the perforations. Mounts to door bars. Use Blocking Plates to prevent short cycling of fans. Includes two 6-in. fans and mounting plate, two finger guards, power cord and mounting hardware.

The Blocking Plate is used with the Door-Mount Fan Tray to direct airflow and prevent short cycling. Multiple plates can be used to fill door opening and achieve desired airflow. Mounts to door bars. Includes one blocking plate and mounting hardware.

Bulletin: DPY, DTHRM

		Fits Door Width	
Catalog Number	Description	mm/in.	Voltage
PF06021DR6	Door-Mount Fan Tray	600	115 VAC
PBLNKDR6	Blocking Plate	600	_





Flush Keylocking Trigger Latch with Random Key Codes



Flush design. Over 100 random key codes with available master. Black textured polyester powder paint finish. Includes two trigger latches with matching key code and two keys. Designed to replace locking trigger latch. For use on PROLINE® Voice/Data and Colocation doors only.

Bulletin: DPC

Catalog Number	Description
PTKLDC	Flush keylocking Trigger Latch with random key codes

Side Cover Lock





Fits in pre-punched hole to secure DataCom solid side from unauthorized entry.

Bulletin: DPC

Catalog Number	Description	Key Code	
PSCL0	Side Cover Lock	2233	

Flush Swing Handles



Flush Handles are optional for any solid, window or disconnect door that includes 3-point latching, except Voice/Data and Colocation cabinets. They are ergonomically designed to provide style and function in a low profile. The handle is die-cast zinc finished with RAL 9005 textured black polyester powder paint. Provision to add your logo is included. Handle can be installed to rotate either clockwise or counterclockwise.

Handle with Screwdriver Defeater

Enclosure security is provided by the integrated tool-to-open feature that releases the handle when rotated, allowing access to the enclosure.

Handle with Keylock

Keylock feature locks the handle to provide security for the enclosure. When the key is in the unlocked position, the pushbutton releases the handle to provide access to the enclosure. Two keys are furnished.

Handle for Padlock

Padlocking Handle provides security when using up to a 5/16 padlock. Pushbutton releases the handle to provide access to the enclosure.

Handle with DIN Profile Provision

DIN Flush Handle is provided with the option to add your DIN profile lock or to accept Hoffman DIN profile lock PDKL (order separately).

Bulletin: P20

Catalog Number	Description	
PFHDF	Flush Handle with Defeater	
PFHKBL	Keylocking Flush Handle	
PFHPBL	Padlocking Flush Handle	
PFHDBL	DIN Profile Flush Handle	

DIN Lock Inserts (for DIN Profile Handle Only)



The DIN profile keylock provides keylocking security for the Flush Swing Handle with DIN provision. Includes profile lock and two keys. Order one profile lock for each handle.

DIN Lock Kit for PROLINE® DataCom doors includes two locks keyed alike with one of 100 different key codes and two keys (master key available). *All DIN Lock Inserts are zinc die-cast.*

Bulletin: DPY, P20

Catalog Number	Description
PKOSLFH	Slotted insert profile cylinder
PKOTM7FH	7-mm triangle insert profile cylinder
PK0SM7FH	7-mm square insert profile cylinder
PKOTM8FH	8-mm triangle insert profile cylinder
PKODBK3FH	Double-bit 3-mm insert profile cylinder
PDKL	DIN keylock, 2 keys included, key code 333
PDKLRKPR	DIN Lock Kit for PROLINE DataCom doors

DIN profile inserts are used with DIN flush swing handles. One key is included (except for slotted insert).



L Handle A-T-O



The L Handle is a stylish option for any solid, window or disconnect door, except Voice/Data or Colocation cabinets. It can be installed to rotate either clockwise or counterclockwise. Handle comes with a bezel, includes keylocking provision and is finished with RAL 9005 textured black polyester powder paint. Two keys are included. The bezel permits your logo to be inserted.

Bulletin: P20

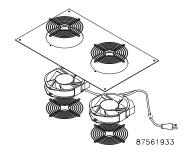
Catalog Number	Description
PLHK	L Handle with 2 keys and logo slot, key code 333

Fan Plate

These fan plates replace the standard plates provided with the Cable Entry Top. They include one or two pre-mounted fans with single power cord. 16 gauge steel with RAL 9005 black polyester powder paint finish on plate. Includes mounting hardware.

Bulletin: DPY

Catalog Number	Description	Voltage	Airflow CFM
PFA06021MP	Two 6-in. fans	115 VAC	480
PFA10011MP	One 10-in. fan	115 VAC	560



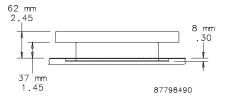
Pagoda Exhaust Vents



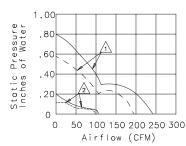
Pagoda Exhaust Vents can be field-installed on any PROLINE® solid top. An axial fan and finger guard are mounted in a housing. A dripproof raised cover is removable from inside the enclosure. Gasket and mounting hardware are included. Vent housing and raised cover are 14 gauge steel finished with RAL 7035 textured light-gray polyester powder paint.

Bulletin: P20

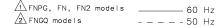
Catalog Number	Description	Volts	
PPT1	Leadwires	115	
PPT1C	Power cord	115	
PPT2	Leadwires	230	



Performance Curve: 6 in. Fans



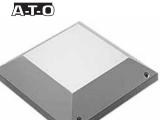
(Curves represent fan performance only.)



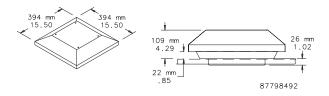
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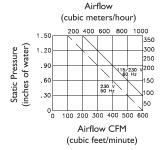


High-Performance Pagoda Exhaust Vent



Vents fit on standard PROLINE® top with vent cutout or can be field-installed on any PROLINE solid top. The Pagoda Vent features an integral centrifugal blower mounted in a housing that includes a drip-proof removable hood, wire mesh finger guard, perimeter gasket and terminal block. Electromagnetic-compatible (EMC) Pagoda Vents include a conductive screen, conductive gasket, line filter and 6-ft. power cord with stripped leads. Pagoda Vent housing and hood are rugged 16 gauge steel finished with RAL 7035 textured light-gray polyester powder paint. EMC vents are finished with paint over plated surfaces. Installation hardware is included.



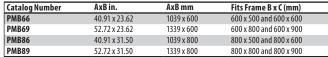


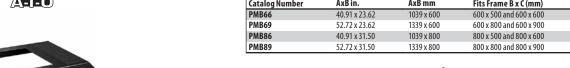
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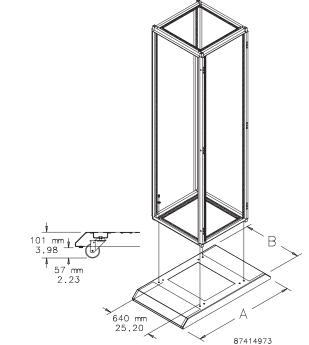
Bulletin: P20, P20EM

Catalog Number	Description	Voltage	Full Load Amps	Use With
PPTHP1	Leadwires	115	1.7	Top with high-performance pagoda vent cutout
PPTHP1C	Power cord	115	1.7	Top with high-performance pagoda vent cutout
PPTHP1EMC	Power cord	115	1.7	Top with high-performance pagoda vent cutout on EMC enclosures
PPTHP2	Leadwires	230	.9	Top with high-performance pagoda vent cutout
PPTHP2EMC	Power cord	230	.9	Top with high-performance pagoda vent cutout









Catalog Number	Description	Use with	
PMBLM12	Mobile Base Leveling Kit	Mobile Base	

Mobile Base





Mobile Bases fit 600- and 800-mm wide frames. They extend beyond the front and rear of 600-mm cabinets to provide enhanced stability. Provides front extension only on 800-mm cabinets. Constructed of steel finished in RAL 9005 textured black polyester powder paint. The base fastens to the underside of the frame and provides integral mounting of furnished casters. The front and rear top surfaces of the base are trimmed with black rubber mats 3-mm thick. Casters and mounting hardware are furnished.

Four non-locking casters provide a maximum load-bearing capacity of 1000 lb. (453.6 kg).

Exercise care when using casters to move the cabinet. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid:

- large cracks
- floor displacement
- seams
- gravel
- any other obstruction

Never use casters while transporting a cabinet by truck on roadways.

Contact Hoffman if further information is needed.

Bulletin: P20

Mobile Base Leveling Kit





Levelers mount in the outer corners of the Mobile Base, providing loadbearing capacity of 1000 lb. (453.6 kg).

Bulletin: P20



VARISTAR LHX





Chilled water hook-ups and condensate drain line.

- · Easy access
- Isolated from network equipment

Industry Standards

NEMA Type 12 IP 55

Application

VARISTAR LHX is a sealed, self-contained cabinet with an internal air-to-water heat exchanger which uses water to remove heat from the cabinet. Completely sealed from outside air and contaminants, this cabinet is ideal for high-density network, industrial and remotely located equipment. The cabinet provides up to 20 kW of heat dissipation from internal 19-in. rack-mounted equipment. The sealed design significantly reduces acoustic noise from internally mounted equipment.

Features

- Safety glass window door opens 180 degrees with multi-point latch system and central key lock (key code 333)
- Solid steel rear door opens 180 degrees with 4-point vault locking system and central key lock
- Removable panels on sides
- Die cast metal posts on all corners of plinth base
- Two sets of painted rack angles included
- EIA spaced .375-in. square holes (42 RU spaces)
- 100-mm plinth base with removable side panels
- Easy-to-replace multiple fan construction
- Local monitoring displays condensation, temperature, humidity, fan failure, access, and inlet and outlet water temperature

- Additional connections available for other monitoring devices
- · All exterior panels and doors cable grounded

Specifications

- · Formed steel frame, top, base and sides
- Seamless foam gaskets on doors
- Left-mounted, water-cooled heat exchanger has 20 or 40 kW cooling capacity
- 115 VAC input
- · Standard NEMA 15R plug on a 6-ft. cord
- · RJ 45 internet connection
- RS 232 port
- 1-in. copper water and condensation fittings (NPT) located at the bottom of the heat exchanger
- Static load rating of 400 kg (880 lb.) for 19-in. equipment

Finish

RAL 7021 black textured, low-gloss polyester powder paint over pretreated steel.

Accessories

CABLETEK™ Horizontal Cable Manager Rack- and Panel-Mount Power Distribution Units (PDUs) Tool-less Shelf

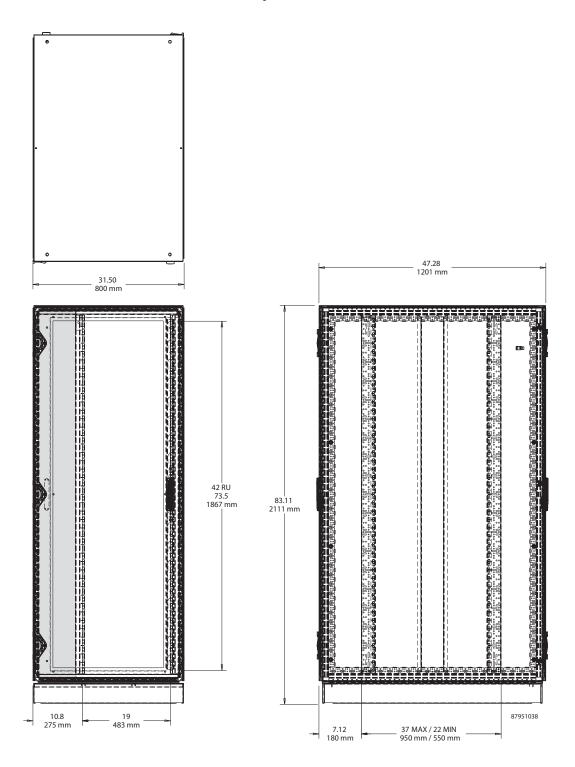
Tool-less (Snap-in) Blanking Panels for 19-in. Racks

Bulletin: DPSR

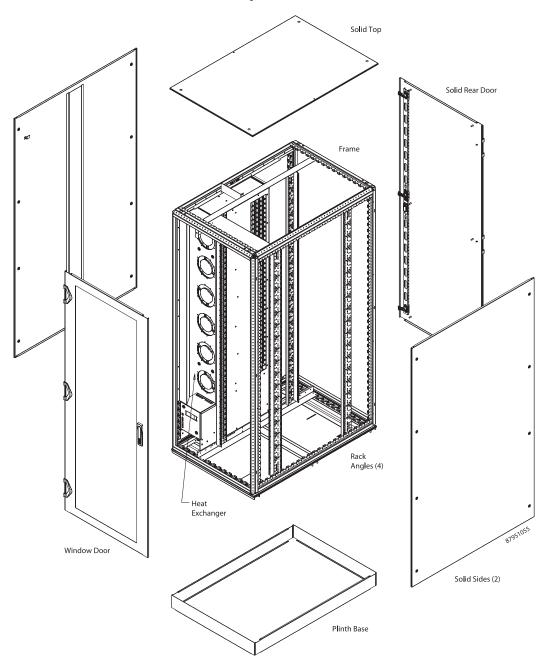
Standard Product

								Airflow Max.		
Catalog Number	AxBxC in./mm	VAC	Hz	Phase	Full Load Amps	Max. Cooling	Water Inlet Temp.	m³/hr.	Rack Units	
DV218012LX2	82.68 x 31.50 x 47.24	115	50/60	1	8.6	20 kW	7-15 C (45-60 F)	3,000 (1,766 CFM)	42	
	2100 x 800 x 1200									
DV218012LX4	82.68 x 31.50 x 47.24	115	50/60	1	12.4	40 kW	7-15 C (45-60 F)	4,200 (2,472 CFM)	42	
	2100 x 800 x 1200									





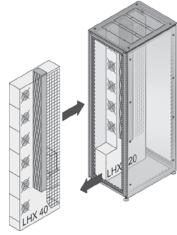






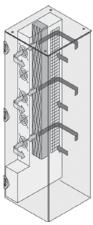
Scaleable, upgradeable to 40 kW

The VARISTAR LHX heat exchanger lets you move into water cooling step by step. Individually cooled cabinets that first neutralize hot spots in the computer room can be gradually expanded to redundant systems and positioned side by side. Upgrades are also possible at any time in the selection of heat exchanger: by initially installing only a maximum dissipation loss of 20 kW per cabinet and using the LHX 20 for cooling, it is possible later to exchange this device for an LHX 40 and thus obtain a cooling capacity of 40 kW.

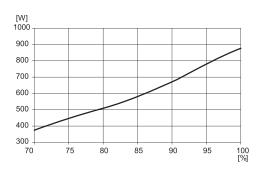


A Future for Data Centers

VARISTAR LHX is a stand-alone cabinet capable of up to 40 kW of cooling. The air/water heat exchanger is inserted laterallly into the cabinet as a complete unit, to the left or right. The horizontal airflow ensures a uniform air distribution over the entire cabinet height.



Low-noise and Energy-efficient



The VARISTAR heat exchanger wins with its high energy efficiency and cooling capacity. The LHX 20, operating at 80% fan speed, is very efficient with a total power consumption of only 530 W. This device proves very efficient in the water circuit as well, thanks to its low pressure losses. Control is thus primarily through the water circuit; only in emergencies or at full load do the fans run at 100% speed. The low fan speed also contributes to the reduced noise level. Moreover, the VARISTAR LHX 20 operates behind the tightly closed glass door and, with 80% fan speed, creates a noise level of only 50.7 dB(A).

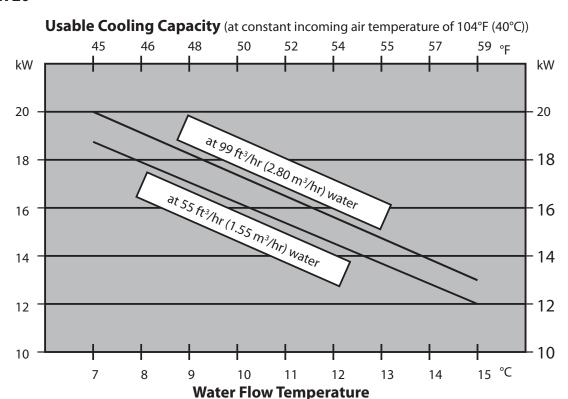
Space-Saving

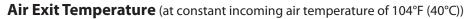


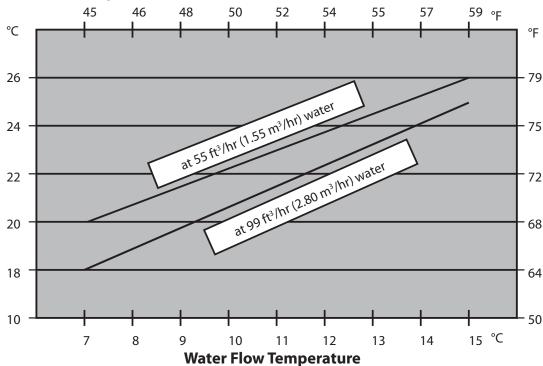
Thanks to its 48 in./1200 mm depth, not only can all current server types be installed in the VARISTAR LHX, but there is also sufficient room for the cabling. Since the heat exchanger is inserted laterally as a complete module into the 32 in./800 mm wide cabinet only, the cabinet can be used to its full height of 42 U. This saves valuable space in the data center.

Varistar_Features

LHX 20

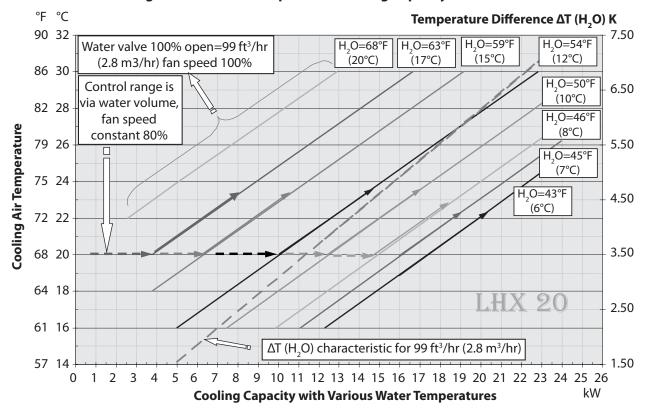






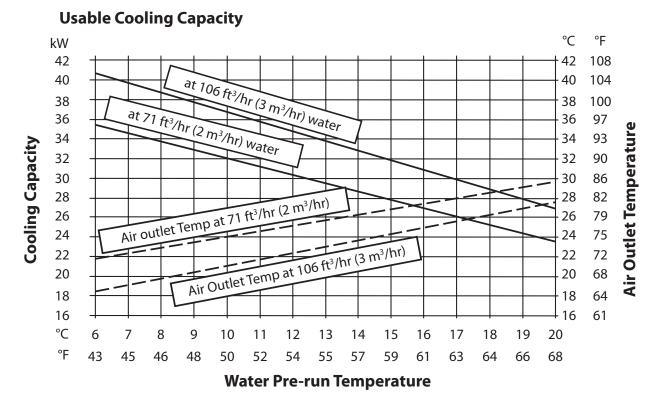
LHX 20

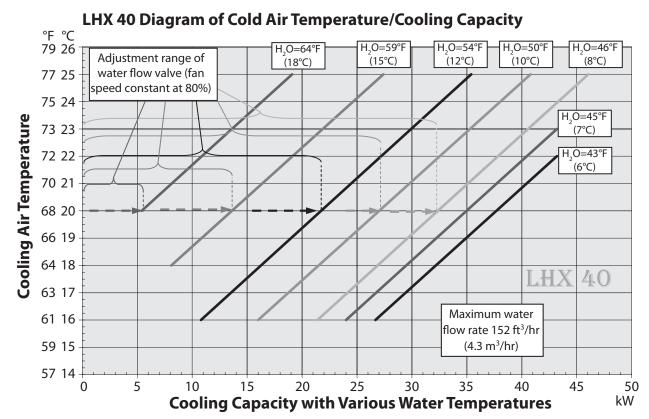






LHX 40







Liquid-Cooled Cabinets

Technical Data Cooling Capacity

	LHX 20	LHX 40
Adjustment range air outlet temperature	64.4 to 86.0 F (0.2 F increments)	64.4 to 86.0 F (0.2 F increments)

Technical Data Water Circuit

	LHX 20	LHX 40
Cooling medium ¹	Water	Water
Water inlet temperature ²	42.8 to 59.0 F	42.8 to 59.0 F
Water flow volume	up to 12.36 gal./min.	18.9 gal./min.
Static pressure loss in device at 6.8 gal./min.	7.25 PSI	7.25 PSI
Water conduit	Copper	Copper
Water connection inlet/outlet	Rp 1 in.	Rp 1 in.
Condensate drain	Rp 1/2 in.	Rp 1/2 in.

¹For optimal operation of the air/water heat exchanger, the water quality requirements must be fulfilled (VDE 3803, please see user manual).

Technical Data Air Loop

	LHX 20	LHX 40
Maximum airflow volume, controlled temperature dependently	1765 CFM	2,354 CFM
Air outlet LHX 20 (adjustable)	64.4 to 86.0 F	64.4 to 86.0 F

Technical Data Electrical Data AC

	LHX 20	LHX 40
Maximum current consumption	8.6 A	10.4 A
Maximum power consumption	700 W	1200 W
Apparent power at full load	990 VA	1610 VA
Pre-fuse (in the building)	10 A	10 A

Technical Data Interface

	LHX 20 and LHX 40
ST-bus (RJ 45)	Connection possibility for external operation and digital display
RS 232 (SUB-D 9-pin)	ASCII protocol, all operational values and status reports, such as temperature, humidity levels, fan operation times
Digital input/output (SUB-D 25-pin)	External on/off, alarm outputs and warning signals

Technical Data General Data

General Data	LHX 20	LHX 40
Cabinet type of protection	IP55, Type 12	IP55, Type 12
Ambient temperature during transport	-13 to +158 F	-13 to +158 F
Ambient temperature outside cabinet (during operation)	41 to 158 F	41 to 158 F
Noise level (closed cabinet) at 80 percent fan speed	50.7 dB(A)	61 dB(A)
Relative humidity level	5 to 95 percent	5 to 95 percent
Weight of LHX 20 (heat exchanger)	173 lb. (181 lb. with water)	242 lb.
Weight of LHX 20 with cabinet (approximate)	750 lb.	816 lb.

²At a water inlet temperature below 42.8 F and above 59.0 F, the control accuracy cannot be guaranteed. There is also a risk of condensation if the water temperature falls short of the given limits.



Liquid-Cooled Cabinets Notes



Networking SOHO Cabinet

SOHO Cabinet for Small Office and Home Office



Industry Standards

EIA 310-D

Application

SOHO Cabinets are designed to house servers, networking equipment and phone and voice mail equipment under a desktop. Casters allow the cabinet to be easily moved for access. Equipment is passively cooled by air taken in from the front of the cabinet and expelled through fan cutouts in the rear, which can accept optional fans for warmer applications.

Features

- · Adjustable gland plate with strain relief at bottom rear of cabinet provides easy and secure cable entry
- Rear door and side panels have quarter-turn key-locking latches
- Doors are hinged left and removable
- Front door has locking handle
- Same key provides access to all doors and side panels
- Fan cutouts with finger guards on upper half of rear door
- Doors and side panels inset flush with frame
- Open base with slotted vents includes casters

Specifications

- · Welded steel frame with 4 rack angle mounting struts
- Includes 2 sets of painted L-shaped rack angles with holes per EIA spacing (5/8 in. x 5/8 in. x 1/2 in.)
- Rack angles on 600-mm deep cabinet have 10-32 tapped holes, and on 900-mm deep cabinet have square holes
- Both sizes provide 11 rack units
- Smoke-gray acrylic window in front door
- Solid top

Finish

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Accessories

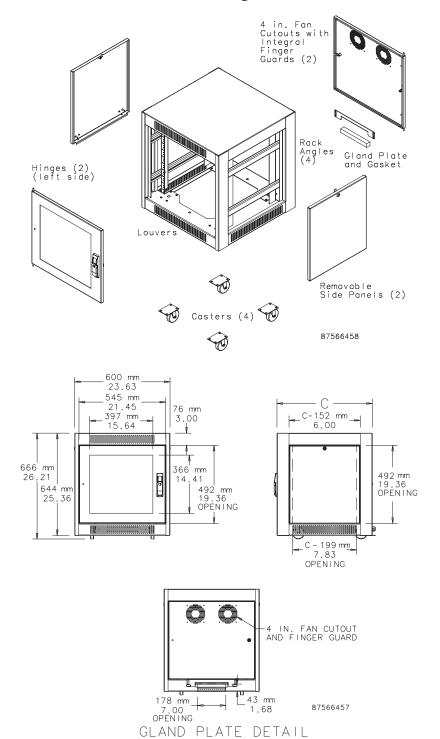
Most 19-in. rack accessories can be used with the SOHO cabinet. **Bulletin: DNCS**

Standard Product

			Rack	Additional	
Catalog Number	AxBxC in./mm	Description	Units	Rack Angles	Hole Type
ENC766SH	26.21 x 23.63 x 23.60	600-mm deep cabinet	11	ERA1971TPLN	Tapped
	666 x 600 x 600				
ENC769SH	26.21 x 23.63 x 35.40	900-mm deep cabinet	11	ERA1971THLN	Square
	666 x 600 x 900				



Networking SOHO Cabinet





Networking PC Cabinet, Type 1



Industry Standards

UL 508A Listed; Type 1; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 1; File No. E61997

NEMA Type 1

EIA 310-D (when rack angle accessory is installed)

Application

Used for remote network access from a factory floor or warehouse, the Networking PC Cabinet is built to house PCs, keyboards and printers for data entry as well as LAN and WAN equipment. Key-

Workstation and PC Cabinets

lock doors provide security and physical protection for equipment that is passively cooled by air taken in from the front of the cabinet and expelled through fan cutouts in the rear. Optional fans may be installed for added cooling.

Features

- Keylocking flush door handles on both upper and lower front
- Quarter-turn keylocks on rear door, side panels and keyboard door
- All locks keyed alike; two keys supplied with cabinet
- Front doors hinged on left; rear door can be hinged right or left
- Side panels easily removable
- Base is pre-punched for casters which are recessed when installed. Caster kit available as an accessory.
- Adjustable gland plate with strain relief at bottom rear of cabinet provides easy, secure cable entry

Specifications

- Welded steel frame with accessory mounting struts
- Steel keyboard with ball-bearing pull-out slides and keylock
- Clear safety-glass window in upper front door
- Louvers on lower quarter of rear door
- Top has one 4-in. cable entry port knockout with cap included and one 6-in. fan-ready cutout with integral finger guard
- Doors and side panels inset flush with frame

Pretreated steel coated with RAL 9005 black textured, low-gloss polyester powder paint. Other finishes available—contact Hoffman Customer Service.

Accessories

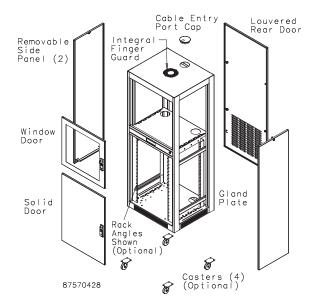
See also Accessories. Network Cabinet Caster Kit Networking PC Cabinet Rack Angle Networking PC Cabinet Shelf

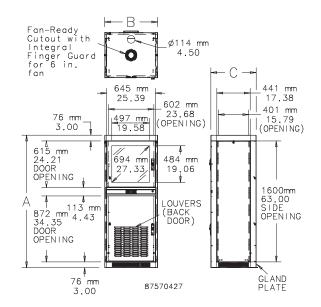
Rack Angle and Shelf cannot be used together.

Bulletin: DNCS

Standard Product

Catalog Number	AxBxC in.	AxBxC mm	Description
ENC1776PC	68.98 x 27.55 x 23.62	1752 x 700 x 600	19-in. Networking PC Cabinet







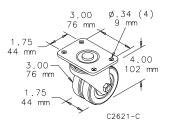
Workstation and PC Cabinets

Network Cabinet Caster Kit

Package of four. Fits Network Cabinet and Networking PC Cabinet. Mounts to predrilled holes in base. Recessed when installed. Load rating: 350 lb. (159 kg) per caster.

Bulletin: DNC

Catalog Number	Description
DLCASTERS	Set of four double casters

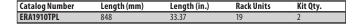


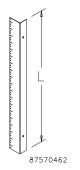
Networking PC Cabinet Rack Angle



Provides 19 RU. Allows use of most 19-in. rack-mount accessories. See Selected Networking PC Cabinet Accessories. Package includes two rack angles and mounting hardware. Required for accessories noted in Selected Networking PC Cabinet Accessories table; not compatible with EPCEQS Shelf.

Bulletin: DNCY



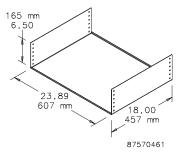


Networking PC Cabinet Shelf

Steel shelf for use in the lower compartment of the Networking PC Cabinet. Compartment accommodates up to two shelves. Shelf mounts to accessory mounting struts and can be adjusted in 1-in. (25-mm) intervals inside cabinet. Shelf installs without rack angles. Not compatible with ERA1910TPL.

Bulletin: DNCS

Catalog Number	Description	
EPCEQS	Shelf for lower compartment	





19-in. Mini-Rack Cabinet, Type 1



Industry Standards

NEMA Type 1 EIA 310-D / IEC 297-1 IEC 60529, IP40

Application

Aesthetics and flexibility make the Mini-Rack an ideal general purpose cabinet for 19-in. equipment used in a small office or in a testing or lab setting.

Features

- Mini-rack will accommodate optional doors and rear panels on either the frame front or rear
- Side panels are removable for access and include foam gasket strips and ground stud
- Side mounting holes are spaced vertically at wide spacing (same as front/rear) to accommodate accessories
- Mounting surface on front of framework is recessed 1.30 in. (33 mm) to allow both rack mounting and door options. The rear mounting surface is recessed 2.36 in. (60 mm).
- 0.35-in. (9-mm) square holes in uprights accommodate cage nuts for mounting 19-in. rack equipment and accessories. Front and rear hole spacing comply with EIA 310-D / IEC 297-1 wide spacing for 19-in. mounting.

Specifications

- · Framework is constructed from a die-cast aluminum top frame and bottom frame connected with four extruded aluminum uprights. Each upright includes two integral mounting flanges with mounting holes.
- Frame has a bottom opening and four rubber feet 15-mm tall x 24-mm diameter. Frames 20U tall have four aluminum feet 15-mm tall x 30-mm diameter.
- Includes two steel 18 gauge side panels. Side panels are removable for access and include foam gasket strips. Ground stud provided.
- 16 gauge steel top mounts flush on the top of the framework and closes top opening. Ground stud provided.

Framework and flush top are painted with a stone-gray textured finish (RAL 7030). Sides are textured light gray (RAL 7035).

Accessories

See also Accessories. **Compact Cooling Fans** Incandescent Light Package Rack- and Panel-Mount Power Distribution Unit (PDU) **Bulletin: DEC1**

Standard Product

		E	Н	W
Catalog Number	AxBxC mm/in.	mm/in.	mm/in.	mm/in.
EMR9U6050	455 x 553 x 500	400	399	423
	17.93 x 21.77 x 19.70	15.75	15.72	16.65
EMR12U6050	589 x 553 x 500	533	533	423
	23.17 x 21.77 x 19.70	20.98	20.98	16.65
EMR12U6060	589 x 553 x 600	533	533	523
	23.17 x 21.77 x 23.60	20.98	20.98	20.59
EMR16U6050	768 x 553 x 500	711	710	423
	30.22 x 21.77 x 19.70	27.99	27.99	16.65
EMR16U6060	768 x 553 x 600	711	711	523
	30.22 x 21.77 x 23.60	27.99	27.99	20.59
EMR20U6060	945 x 553 x 600	889	888	523
	37.19 x 21.77 x 23.60	35.00	34.96	20.59

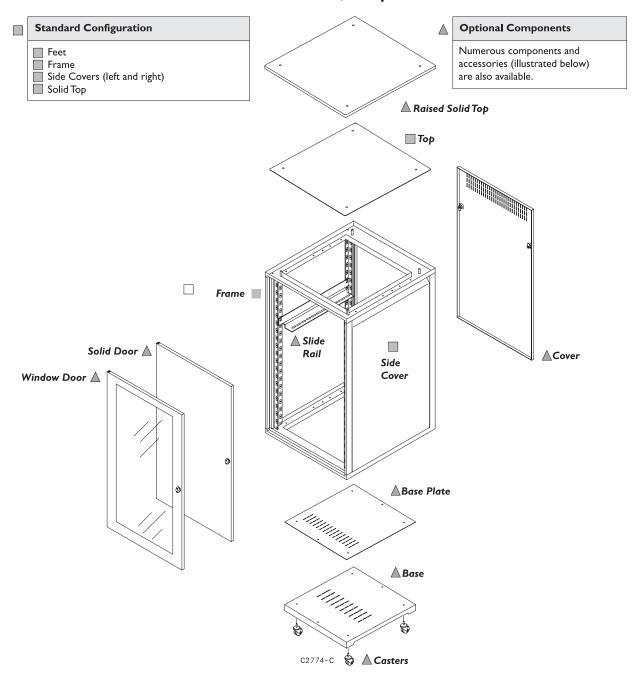
Add 15 mm to dimension A for standard feet.

Add 23 mm to dimension A for raised solid top

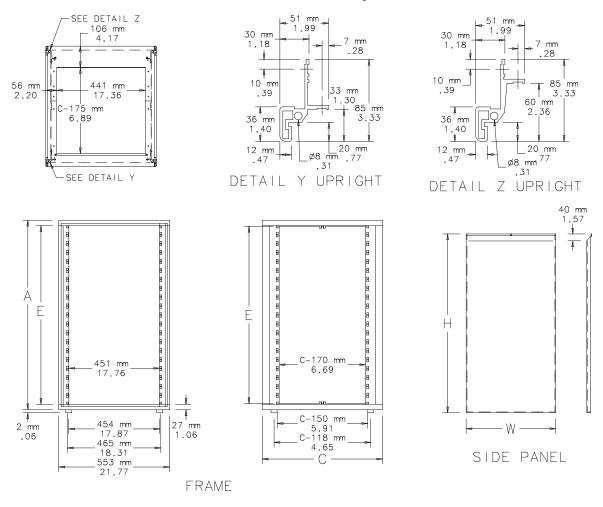
Add 42.5 mm to dimension A for stationary base.

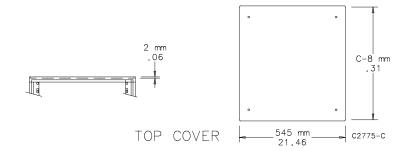
Add 80 mm to dimension A for stationary base with casters.











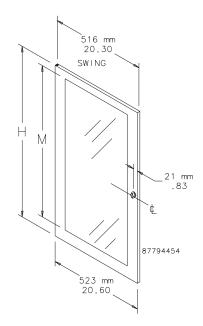


Mini-Rack Cabinet Window Door

Fits in the 33-mm (1.30-in.) front recess or 60-mm (2.36-in.) rear recess of door openings on a mini-rack. A 2-mm thick acrylic window is attached to the door frame with spring clips. The acrylic window is untinted and is field replaceable. The extruded aluminum door frame mounts flush and provides 27-mm (1.06-in.) space from the inside of the window to the rack mounting surface when installed to the front recess. The door has upper and lower hinge pins that fit into holes provided in the mini-rack. Door can be hinged on left or right. A keylocking latch is provided with 2 keys. The latch is black with a chrome lock insert. The door frame has provisions to attach a ground wire. Frame has a light gray (RAL 7035) textured finish. All mounting hardware and strips of foam gasket are furnished.

Bulletin: DEC1

	Н	M	
Catalog Number	mm/in.	mm/in.	Fits Cabinet
EMRPD9U	422	364	9U x 600
	16.61	14.33	
EMRPD12U	555	497	12U x 600
	21.85	19.57	
EMRPD16U	733	675	16U x 600
	28.86	26.57	
EMRPD20U	911	853	20U x 600
	35.87	33.58	

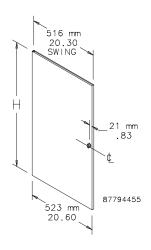


Mini-Rack Cabinet Solid Door

Fits into the 33-mm (1.30-in.) front recess or 60-mm (2.36-in.) rear recess of door openings on a mini-rack. The flush door provides 32-mm (1.26 in.) space from inside of door to rack mounting surface when installed in the front recess. The door is 1-mm thick steel and has upper and lower hinge pins that fit into holes provided in the mini-rack. Door can be hinged on left or right. A keylocking latch is provided with 2 keys. The latch is black with a chrome lock insert. A ground stud is provided. The door has a light-gray (RAL 7035) textured finish. All mounting hardware and strips of foam gasket are furnished.

Bulletin: DEC1

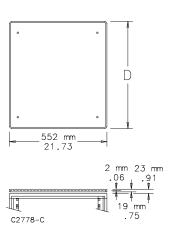
	Н		
Catalog Number	mm/in.	Fits Cabinet	
EMRSD9U	422	9U x 600	
	16.61		
EMRSD12U	555	12U x 600	
	21.85		
EMRSD16U	733	16U x 600	
	28.86		
EMRSD20U	911	20U x 600	
	35.87		



Mini-Rack Cabinet Raised Solid Top

Replaces flush solid top to provide a 4-mm (0.16-in.) ventilation opening around perimeter of top on mini-rack frame. The raised top extends mini-rack height 23 mm (0.91 in.). Top is 1.5-mm thick steel and mounts on steel spacers. A ground stud is provided. Finish is stone gray (RAL 7030). All mounting hardware is included.

	D		
Catalog Number	mm/in.	Fits Cabinet	
EMRRTC6050	499	600 x 500	
	19.65		
EMRRTC6060	599	600 x 600	
	23.58		



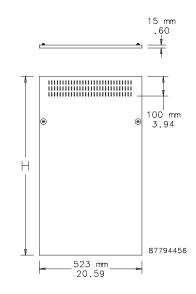


Mini-Rack Cabinet Cover

Used to close off the front or rear opening in a mini-rack when door access is not required. Fits into the recessed opening for flush installation. Cover provides 59-mm (2.32-in.) space from inside of cover to rack mounting surface when installed in 60-mm (2.36-in.) rear recess. Two quarter-turn latches at the top and two pins in the bottom of the recessed opening secure the cover to the frame. The quarter-turn latches have slotted inserts. Three rows of ventilation slots are provided near the top of the cover. A ground stud is provided. The cover is 1-mm steel with a light-gray (RAL7035) textured finish. All mounting hardware and strips of foam gasket are furnished.

Bulletin: DEC1

	Н		
Catalog Number	mm/in.	Fits Cabinet	
EMRRP9U	425	9U x 600	
	16.73		
EMRRP12U	558	12U x 600	
	21.97		
EMRRP16U	736	16U x 600	
	28.98		
EMRRP20U	914	20U x 600	
	35.98		

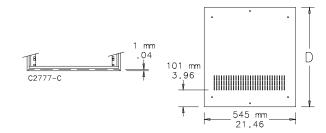


Mini-Rack Cabinet Base Plate

Used to close off the open bottom of a mini-rack. It is a flat steel plate 1-mm thick with mounting holes and three rows of ventilation slots. A ground stud is provided. Plate has a stone-gray (RAL 7030) textured finish. Hardware is included for the mounting base plate into the recessed bottom exterior of a mini-rack.

Bulletin: DEC1

	D	'	
Catalog Number	mm/in.	Fits Cabinet	
EMRBP6050	492	600 x 500	
	19.37		
EMRBP6060	592	600 x 600	
	23.31		

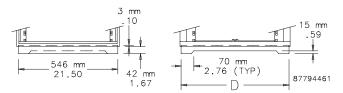


Mini-Rack Cabinet Base

Heavy duty stationary base provides a raised platform for the minirack cabinet. It also closes off the open bottom in the cabinet. The stationary base is 45-mm (1.77-in.) high, which elevates the mini-rack 42.5 mm (1.67 in.). The base has 70-mm (2.76-in.) wide corner legs with a 15-mm (0.59-in.) high opening between legs. The base is 2.5-mm thick steel with mounting holes, three rows of ventilation slots and four embossed holes for mounting optional casters. A ground stud is provided. Finish is stone-gray textured (RAL 7030). Hardware is included for mounting the base into the recessed bottom exterior of the mini-rack.

Bulletin: DEC1

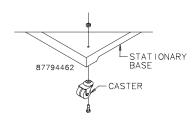
	D		
Catalog Number	mm/in.	Fits Cabinet	
EMRSB6050	493	600 x 500	
	19.41		
EMRSB6060	593	600 x 600	
	23.35		



Mini-Rack Cabinet Caster Kit

A set of four dual-wheel casters provides mobility to the mini-rack. Casters only fit on the embossed holes provided in a stationary base. The casters and base elevate the mini-rack 80 mm (3.15 in.) when installed. Wheels are 50-mm (1.97-in.) diameter. Casters frames are steel with a plated finish. The non-locking casters have ball bearing pivots and hard plastic wheels. Mounting hardware is included. Four casters will support a maximum load of 530 lb. (240.4 kg).

Catalog Number	Description	
EMRCK	1 set of 4 casters	



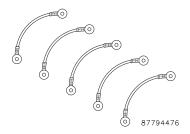


Mini-Rack and Rack Cabinet Grounding Kit

Includes five copper wires 4-sq.-mm diameter with ring terminals on both ends. Wires, 170-mm (6.69-in.) long, have striped green/yellow PVC insulation. Kit includes toothed washers and bolts to attach wires to frame uprights. Grounding kit meets VDE 0160 and VDE 0411 part 100

Bulletin: DEC1

Catalog Number	Description
EERGDK	5 wires and hardware

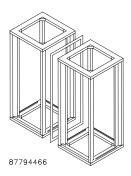


Mini-Rack Cabinet Joining Kit

19-in. electronic mini-rack cabinets can be joined by removing the adjacent side panels. Joining kit includes spacers and bolts as well as strips of foam gasket to connect two frames side-to-side.

Bulletin: DEC1

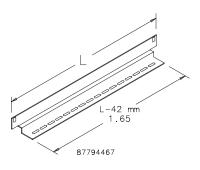
Catalog Number	Description
EMRGK	Gasket and hardware



Mini-Rack Cabinet Slide Rails

Rails support heavy 19-in. subracks when they are installed in a frame. Rails attach horizontally to side openings on each side of the frame. Mounting holes are slotted to provide vertical adjustment. Flat surface of rails have slotted holes for attaching equipment. Slide rails are 2-mm steel with a plated finish, furnished in pairs and include mounting hardware. Maximum load capacity is 88 lb. (39.9 kg) per pair.

	L	
Catalog Number	mm/in.	Fits Cabinet
EMRSR50	368	500 mm deep
	14.49	
EMRSR60	468	600 mm deep
	18.43	





19-in. Rack Cabinet, Type 1



Industry Standards

NEMA Type 1 EIA 310-D / IEC 297-1 IEC 60529, IP40

Application

The multi-purpose, modular Rack Cabinet is especially suited for 19in, computer system applications where aesthetics and modularity are important. Multiple rack mounting heights, door options and accessories make this cabinet highly adaptable.

Features

- Mounting surfaces on front and rear of frame are recessed 60 mm (2.36 in.) to allow for both equipment mounting and use of all door
- Bottom of frame can be left open or closed with covers. Frames provided with die-cast support feet.
- Frame accommodates optional doors, front and rear, in any combination
- Optional joining kits bolt frames together for modular applications
- 9-mm square holes in uprights accommodate cage nuts for mounting all types of 19-in. rack equipment and accessories. Front and rear hole spacing comply with EIA 310-D / IEC 297-1 wide spacing for 19-in. mounting.
- Side mounting holes are spaced vertically at wide spacing (same as front/rear) to accommodate accessories

Specifications

- · Rugged die-cast aluminum top and bottom frame connected to four extruded aluminum uprights. Each upright includes two integral mounting flanges.
- Two steel side covers 1-mm thick. Side covers are removable via quarter-turn fasteners for easy access. Ground studs and foam gasket strips are provided.
- Louvered top (1-mm thick) mounts flush on frame. Ground stud provided.

Frame and flush-louvered top are painted with a durable stone-gray textured finish (RAL 7030). Side covers are textured light gray (RAL 7035).

Accessories

See also Accessories. Rack Cabinet Casters and Adjustable Feet Electric Heater **Compact Cooling Fans** Rack Cabinet Joining Kit **Rack Panels**

Bulletin: DEC1

Standard Product

		E	F	Н	W
Catalog Number	AxBxC mm/in.	mm/in.	mm/in.	mm/in.	mm/in.
EER34U6060	1611 x 600 x 600	1511	85	1536	523
	63.41 x 23.62 x 23.61	59.50	3.35	60.46	20.59
EER34U6080	1611 x 600 x 800	1511	185	1536	723
	63.41 x 23.62 x 31.49	59.50	7.28	60.46	28.46
EER38U6060	1789 x 600 x 600	1689	85	1713	523
	70.41 x 23.62 x 23.61	66.50	3.35	67.46	20.59
EER38U6080	1789 x 600 x 800	1689	185	1713	723
	70.41 x 23.62 x 31.49	66.50	7.28	67.46	28.46
EER43U6060	2011 x 600 x 600	1911	85	1936	523
	79.15 x 23.62 x 23.61	75.25	3.35	76.21	20.59
EER43U6080	2011 x 600 x 800	1911	185	1936	723
	79.15 x 23.62 x 31.49	75.25	7.28	76.21	28.46

Add 9 mm (0.35 in.) for standard feet.

Add 32 mm (1.26 in.) for raised solid top.

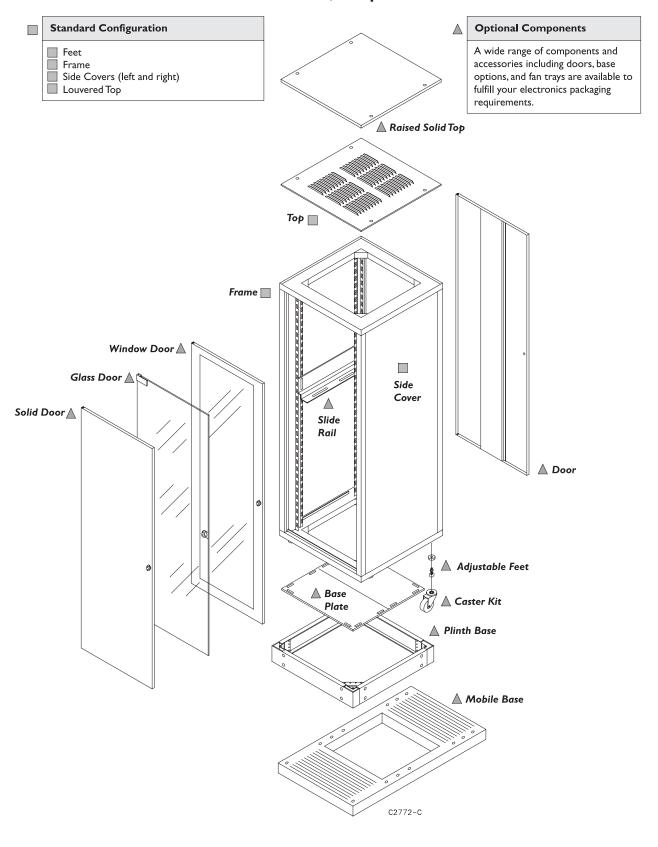
Add 98 mm (3.84 in.) for plinth bases.

Add 117 mm (4.61 in.) for mobile base with casters.

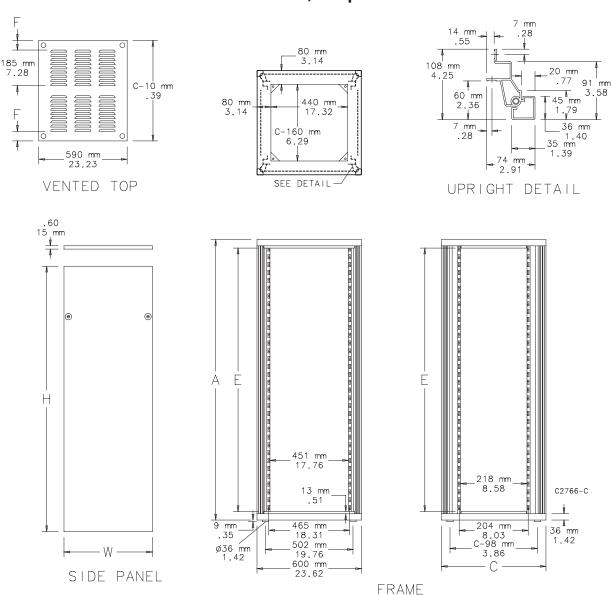
Add 110 mm (4.33 in.) for casters mounted on frame.

Add 17 mm to 35 mm (0.67 in. to 1.38 in.) for adjustable feet.





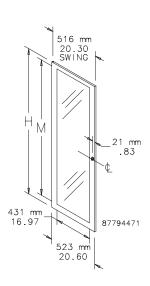




Rack Cabinet Window Door

Fits in the 60-mm (2.36-in.) front or rear recessed door openings in the cabinet frame. The field replaceable 2-mm thick untinted acrylic window is attached with spring clips and sealed with foam tape. The extruded aluminum door frame, finished with RAL 7035 light gray textured polyester powder paint, mounts flush and provides 54 mm (2.13 in.) of space from the inside of the window to the rack mounting surface. Upper and lower hinge pins on the door fit into holes in the frame. Door can be hinged right or left. Black keylock latch with chrome lock insert and two keys is furnished. Frame has provision to attach a ground cable. Strips of foam gasket and all mounting hardware are provided.

	Н	М	
Catalog Number	mm/in.	mm/in.	Fits Cabinet
EERPD34U	1533	1475	34U x 600
	60.35	58.07	
EERPD38U	1711	1653	38U x 600
	67.35	65.08	
EERPD43U	1933	1875	43U x 600
	76.10	73.82	



Rack Cabinet Solid Door

Fits into the 60-mm (2.36-in.) front or rear recessed door openings in frame. The flush door provides 59 mm (2.32 in.) from inside of door to rack mounting surface. Door is 1-mm thick steel finished with RAL 7035 light-gray textured polyester powder paint. Upper and lower hinge pins fit into holes provided in the cabinet frame. Doors can be hinged right or left. Black keylocking latch with chrome lock insert and two keys is furnished. Ground stud provided. Strips of foam gasket and all mounting hardware are included.

Bulletin: DEC1

	Н		
Catalog Number	mm/in.	Fits Cabinet	
EERSD34U	1533	34U x 600	
	60.35		
EERSD38U	1711	38U x 600	
	67.35		
EERSD43U	1933	43U x 600	
	76.10		

Rack Cabinet Raised Solid Top

Replaces flush top to provide an 8-mm (0.32-in.) ventilation opening around frame top perimeter. The raised top, mounted on steel spacers, extends enclosure height 32 mm (1.26 in.). Top is 1.5-mm thick steel finished with RAL 7030 stone-gray polyester powder paint. A ground stud is provided. All mounting hardware is furnished.

Bulletin: DEC1

	D		
Catalog Number	mm/in.	Fits Cabinet	
EERRTC6060	599	600 x 600	
	23.58		
EERRTC6080	799	600 x 800	
	31.46		

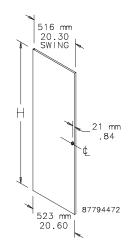
Rack Cabinet Top-Mount Fan Tray

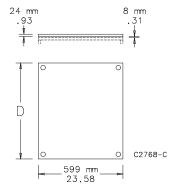
Use with raised solid top or flat vented top. Heated cabinet air is drawn up and blown out through the ventilation opening in the top. Each tray includes four 77 CFM axial fans pre-wired to a 115 V, 60 Hz, 137-mm (54-in.) power cord with a 5-15A plug. Fan tray mounts flush to inside top of cabinet without using any of the 19-in. rack mounting space.

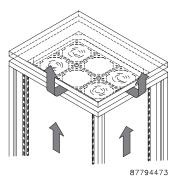
Bulletin: DEC1

Rack Cabinet Top-Mount Fan Tray

Catalog Number	Fits Cabinet
EERTFT6060	600 x 600
EERTFT6080	600 x 800







Technical Data per Fan

Measurement	At 115V, 60 Hz
Air Capacity	77 CFM
Noise Pressure Level	38 db(A)
Max. Static Pressure	.20 IWC
Max. Ambient Temp.	158 F (70 C)
Power Consumption	11 W



Rack Cabinet Plinth Base

Elevates the enclosure frame 97.5 mm (3.84 in.). Base covers provide an effective barrier to the cabinet interior and are removable for transportation and cable entry. Base covers are 2.5-mm steel finished with RAL 7030 stone-gray textured polyester powder paint. Four corner legs are die-cast aluminum. Hardware for mounting covers and base legs is included.

Bulletin: DEC1

	D	E	
Catalog Number	mm/in.	mm/in.	Fits Cabinet
EERSB6060	597	527	600 x 600
	23.50	20.75	
EERSB6080	797	727	600 x 800
	31.38	28.62	

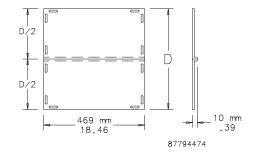
98 mm 3.84 597 mm 23.50 98 mm 3.84 20.75 527 mm 59 (4) 527 mm 59 (4)

Rack Cabinet Base Plate

Closes off the open bottom of the frame. Base plate consists of two flanged steel plates 1.5-mm thick with mounting holes and ground stud provided. Plate finish is RAL 7030 stone-gray textured polyester powder paint. Hardware is included for mounting the plates into the recessed bottom of the frame.

Bulletin: DEC1

	D	'	
Catalog Number	mm/in.	Fits Cabinet	
EERBP6060	469	600 x 600	
	18.46		
EERBP6080	669	600 x 800	
	26.34		

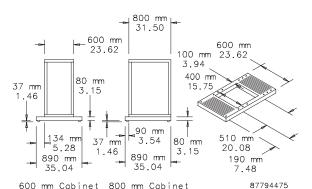


Rack Cabinet Mobile Base

Constructed of die-cast aluminum finished with RAL 7030 stone-gray textured polyester powder paint, the base fastens to the underside of the frame and provides integral mounting of furnished casters or optional adjustable feet. Base extends beyond the front and rear of 600-mm cabinet to provide enhanced stability. Front and rear top surfaces of base have 3-mm-thick light-gray rubber mats. Four casters provide load-bearing capacity of 499 kg (1100 lb.). Casters and mounting hardware are furnished.

Bulletin: DEC1

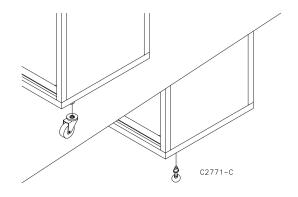
Catalog Number	Fits Cabinet
EERMB	600 x 600 and 600 x 800



Rack Cabinet Casters and Adjustable Feet

Casters, two locking and two non-locking, mount directly to the bottom of the frame. The casters elevate the cabinet 110 mm (4.33 in.). Casters are made of black polyamide material. A set of four casters will support a maximum load of 499 kg (1100 lb.). Adjustable feet with ball and socket construction fit into the bottom of the cabinet frame or into the mobile base. Adjustable from 17-mm to 35-mm (0.67-in. to 1.38-in.) high. Four feet will support a maximum load of 399 kg (880 lb.).

Catalog Number	Description	
EERAFT	Set of four adjustable feet	
EERCK	Set of four casters	



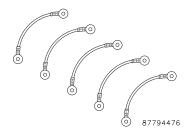


Mini-Rack and Rack Cabinet Grounding Kit

Includes five copper wires 4-sq.-mm diameter with ring terminals on both ends. Wires, 170-mm (6.69-in.) long, have striped green/yellow PVC insulation. Kit includes toothed washers and bolts to attach wires to frame uprights. Grounding kit meets VDE 0160 and VDE 0411 part 100

Bulletin: DEC1

Catalog Number	Description
EERGDK	5 wires and hardware

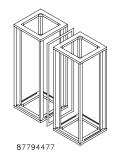


Rack Cabinet Joining Kit

Joining Kit connects two frames side-to-side once the side panels have been removed. Kit includes spacers and bolts as well as strips of foam gasket.

Bulletin: DEC1

Catalog Number	Use with Cabinet
EERGK34U	34U maximum
EERGK38U	43U maximum



Rack Cabinet Slide Rails

Used to support heavy 19-in. subracks installed in a frame. Rails attach horizontally to openings on each side of a frame. Mounting holes are slotted to provide vertical adjustment. Flat surface of rail has slotted holes for attaching equipment if necessary. Made of 2-mm steel with a plated finish. Furnished in pairs with mounting hardware included. Maximum load capacity is 39.9 kg (88 lb.) per pair.

	L	
Catalog Number	mm/in.	Fits Cabinet
EERSR60	424	600-mm deep
	16.69	
EERSR80	624	800-mm deep
	24.57	

