

## **Net-Access<sup>™</sup> Data Center Cabinet** and Net-Containment Systems











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## Panduit<sup>®</sup>

## Net-Access<sup>™</sup> N-Type Cabinets

### **Optimum Accessibility and Cable Management for High Density Applications**

Net-Access<sup>™</sup> N-Type Cabinets are the first choice for data center managers and systems integrators specifying high density network, storage and compute applications that require optimal thermal management and the capacity to manage high cable densities.

Integral cabinet air seal features and integration with passive hot and cold air containment components drive efficient utilization of cooling capacity and reduce cooling energy consumption. The Net-Access<sup>™</sup> inset frame design efficiently manages large quantities of cables and provides space for unmatched access reducing operational costs. This industry leading design also maximizes airflow and provides easy access to equipment for ongoing operational efficiencies, providing exceptional value in a 800mm (31.5") wide enclosure.



## Inset frame provides up to 10% more space for cable management and cooling airflow

Industry leading inset cabinet frame posts create a large area for airflow to provide proper heat dissipation and enable easy access to equipment, in-cabinet ducting and cabling, speeding deployments and reducing operational costs.



## Dual hinged doors speed deployments and moves, adds, and changes up to 30%

IT staff is scarce, downtime is expensive. For a 120 rack dynamic data center, our cabinets save you up to an hour a day, adding up to \$18,250 per year savings for your staff.



## Efficiently manage high cable densities

Modular snap in fingers align with rack spaces to simplify cable management, providing proper bend radius control and organizing cables for faster moves, adds and changes and installations.



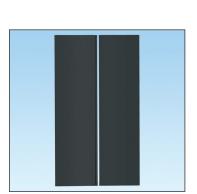




#### Open rail mounting creates more cable management space and equipment positioning flexibility

High strength frame eliminates need for support members between rails, providing unobstructed space between the frame and the side panels.





#### Vertical split side panels enable fast access to equipment

Innovative vertical split side panels and optional vertical split hinged side panels allow fast easy access to end of row network equipment and cabling, eliminating time consuming handling.



#### Innovative Leveling Feet Design Reduces Cabinet Installation Time up to 80%

Heavy duty, M14 thread top drive leveling feet are easily accessed and allow cabinets to be leveled in less time than typical leveling feet.



#### Bond cabinets to the telecommunications grounding infrastructure with single connection, reducing installation time

Entire cabinet is fully electrically bonded, requiring no grounding whips to doors or side panels for protection of equipment and personnel.



#### Net-Access<sup>™</sup> N-Type Cabinets

Net-Access<sup>™</sup> N-Type Cabinets are ideal for network applications that requires optimal thermal management and the capacity to manage high cable densities of switch applications.



- Front dual or single hinge doors with 69% open perforation
- Dual hinge front door allows door to open to the left or right
- Rear perforated split doors with 69% opening
- Inset frame for improved cable management
- Single point bonding at top and bottom of cabinet
- Static load rating 3000 lbs. and rolling load rating 2500 lbs.
- Fully integral bonded without the use of grounding wires equipment rails, door and side panels
- Cable management fingers included (2 sets SN25F)
- Adjustable rear rails
- Standard #12-24 tapped equipment rails

#### Net-Access<sup>™</sup> N-Type Standard Configured Cabinets

Series	Width	Height	Depth	Side Panels	Colors	Standards Options (Select Only One)
N	8 = 800mm	2 = 42RU 5 = 45RU 8 = 48RU	1 = 1070mm 2 = 1200mm	2 = 2 side panels 9 = No side panel	B = Black W = White	C = Cage Nut Rails E = Single Hinge Front Door and Cage Nut Rails U = Vertical Blanking and Cage Nut Rails Blank or None = No Options

Standard Configurations have 6 characters with only one standard option suffix.

N 8 2	1	2	В	
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#### Net-Access<sup>™</sup> Dynamic Cabinets

The Net-Access<sup>™</sup> Dynamic Cabinet is designed to allow the cabinet to be installed with equipment at one facility and safely shipped to another location. This is the ideal cabinet for System Integrators or Value Added Resellers as it allows the equipment to be pre-installed, cabled and ready for quick deployment. The heavy duty reinforced frame has been tested and approved to support the additional weight of equipment. A heavy duty shock pallet allows the cabinet to be shipped with equipment. The optional reusable ramp allows the cabinet to be easily unloaded from the pallet.





- Outset post design
- Welded and assembled steel frame construction
- Easy maintenance powder coat finish
- Adjustable rear equipment rails with continuous positioning
- Fixed front equipment rails
- Integral vertical airdams with covered cable pass-through openings
- Large cable entry/cable access
- Single hinge perforated front door with keyed swing handle
- · Split hinge perforated rear door with keyed swing handle
- Optional split side panels on both sides with dual latches and keyed lock
- Two sets of PDU mounting brackets

- High density cable management fingers (SN25F)
- Select cable entry holes are equipped with plastic sealing plugs, others have cutouts
- Static load of 1,361kg (3,000 lbs.)
- Rolling load of 1,136kg (2,500 lbs.)
- Dynamic shipping load of 907kg (2,000 lbs.)
- EIA-310-E compliant
- Fully integral bonded without the use of grounding wires equipment rails, door and side panels
- Hardware kit: M6 screws and cage nuts
- Factory installed casters, swivel in the rear and fixed in the front
- Adjustable leveling legs
- Single point grounding locations at bottom of cabinet

Part Number	Nominal Width mm	Height	Nominal Depth mm	Side Panels	Color	Ramp
S7222BDHRSP					Black	Yes
S7222BDHSP		42 RU		2		No
S7229BDHRSP	700		1200	_		Yes
S7229BDHSP				0		No

## Net-Access<sup>™</sup> S-Type Cabinets

### Cost Effective and Versatile Cabinets for all Data Center Applications and Facilities Designs

Net-Access<sup>™</sup> S-Type Cabinets provide data center managers and systems integrators an unprecedented range of features in a cost effective cabinet platform for server, network, and pre-configured cabinet applications.

Integral cabinet air seal features and seamless integration with passive hot and cold air containment components provide efficient utilization of cooling capacity, and contribute to reduced cooling energy consumption. An innovative frame design maximizes RU utilization saving as much as 15% of the floor space while safely accommodating equipment loads. Offered in a variety of widths, heights, and depths, they can be specified for a variety of applications in any facility to meet the diverse application needs of today's data centers.



Large selection of standard cabinet widths, heights, and depths offered in:

- 600mm (24"), 700mm (28"), and 800mm (31.5") Widths
- 1070mm (42") and 1200mm (48") Depths
- 42 RU, 45 RU, and 48 RU Heights
- Black and White Color Option
- Static Load Rating 1,364kg (3,000 lb.)
- Rolling Load Rating 1,136kg (2,500 lb.)

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#### Out-Set Cable Entry Improves Floor Space Utilization up to 5% Network cable entry locations are

outside of equipment area, allowing top 2 RUs to be used, optimizing cabinet utilization and saving floor space.



Innovative Leveling Feet Design Reduces Cabinet Installation Time by 80%

Heavy duty, M14 thread top drive leveling feet are easily accessed and allow cabinets to be leveled in less time than typical leveling feet.

## A 15% Savings in floor space

means you can build a 420 server POD with 10 server cabs versus a competitors' cabinet that would require 12 server cabinets to hold equivalent amount of servers. CapEx savings<sup>10</sup> \$900/ft<sup>2</sup> x 16ft<sup>2</sup> = \$14,400 capital savings per POD.

10) Cost Model: Dollars per kW plus Dollars per Square Foot of Computer Floor, Uptime 2008

Net-Access<sup>™</sup> S-Type Cabinets Net-Access<sup>™</sup> S-Type Cabinets are ideal for server applications where high density RU utilization and cable management are required.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Vertical blanking panel
- Heavy-duty leveling legs
- Ganging brackets
- Rear equipment rails accommodate cable management fingers (finger sold separately)
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Static load rating 3000 lbs. and rolling load rating - 2500 lbs.
- Casters
- PDU brackets included
- Cage nut rails
- Adjustable rear equipment rails

#### Net-Access<sup>™</sup> S-Type Standard Configured Cabinets

Series	Width	Height	Depth	Side Panels	Colors	Standards Options (Select Only One)
S	6 = 600mm 7 = 700mm 8 = 800mm	2 = 42RU 5 = 45RU 8 = 48RU	1 = 1070mm 2 = 1200mm	2 = 2 side panels 9 = No side panel	B = Black W = White	F = Vertical Cable Management Fingers Blank or None = No option

Standard Configurations have 6 characters with only one standard option suffix.

S 6 2	1	2	В	
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#### Net-Access<sup>™</sup> S-Type Universal Cabinets

Net-Access<sup>™</sup> S-Type Universal Cabinets are ideal for network or server application that provides effective thermal management, high density cable management and RU utilization.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Ganging brackets included
- Heavy-duty leveling legs
- Adjustable front and rear cage nut equipment rails
- Top and bottom rail position markings

- Front and rear equipment rails accommodate cable management fingers (includes 1 set of fingers)
- Fully integral bonded without the use of grounding wires equipment rails, door and side panels
- Static load rating 3000 lbs. and rolling load rating 2500 lbs.
- Casters
- PDU brackets included

#### Net-Access<sup>™</sup> S-Type Universal Standard Configured Cabinets

Series	Width	Height	Depth	Side Panels	Colors	Designation for Universal Cabinet
S	6 = 600mm 7 = 700mm 8 = 800mm	2 = 42RU 5 = 45RU 8 = 48RU				U = Universal Frame

\*Standard side panel.

#### Standard Universal Configurations have 7 characters

S 6 2 1 2 B U	J
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## Net-Access<sup>™</sup> Cable Capacity Charts

		Top Cap Opening Cable Capacity										
	Ar	rea		Cable Capacities								
Opening Size	In. <sup>2</sup>	Cm. <sup>2</sup>	Cat. 6A 0.354" (8.99mm)	Cat. 6A 0.310" (7.87mm)	Cat. 6A 0.297" (7.54mm)	Cat. 6 0.250" (6.35mm)	Cat. 5e 0.187" (4.75mm)	Fiber (3mm)	QuickNet <sup>™</sup> Cassettes			
5" x 3.5"	15.6	100.7	63	82	90	127	227	569	8			
5" x 1.5"	6.5	42.2	26	34	37	53	95	239	8			

	Cable Pathways (Per Side)										
	Ar	ea		Cable Capacities							
Cabinet Size (mm)	ln.²	Cm. <sup>2</sup>	Cat. 6A 0.354" (8.99mm)	Cat. 6A 0.310" (7.87mm)	Cat. 6A 0.297" (7.54mm)	Cat. 6 0.250" (6.35mm)	Cat. 5e 0.187" (4.75mm)	Fiber (3mm)			
N-Type (Front Sid	de)										
800x1070	43.8	282.7	178	232	252	357	638	1599			
800x1200	43.8	282.7	178	232	252	357	638	1599			
S-Type (Rear Sid	e)		1		1						
600x1070	18.5	119.4	75	98	106	150	269	675			
600x1200	30.5	196.8	123	161	176	248	444	1113			
700x1070	32.4	208.9	131	171	186	263	471	1181			
700x1200	53.4	344.4	216	282	308	434	777	1948			
800x1070	46.3	298.4	187	245	267	376	673	1688			
800x1200	76.3	491.9	309	404	440	621	1110	2783			

## Cable Management Finger Mounting Locations

	Front	Rails	Rear Rails			
	Front Side Facing the Front Door	Rear Side Facing the Rear Door	Front Side Facing the Front Door	Rear Side Facing the Rear Door		
N-Туре	Y	Y	Y	Y		
S-Type Server	Ν	Ν	Y	Ν		
S-Type Universal	Т	Ν	Y	Ν		

## Net-Access<sup>™</sup> Integral Cabinet Top Cable Routing System

#### Speed deployments and optimize overhead space utilization

Net-Access<sup>™</sup> Cabinets are available with an Integral Cabinet Top Cable Routing System that protects, routes, and manages large quantities of twisted pair data cables into and out of any Net-Access<sup>™</sup> Cabinet. This versatile system is integral to the top of the cabinet and easily integrates with other cable pathways used throughout the data center, providing up to a 30% reduction in installation costs.



Net-Access<sup>™</sup> Integral Cabinet Top Cable Routing System deployed on Net-Access<sup>™</sup> Cabinets.

### Net-Access<sup>™</sup> Cabinet Top Cable Routing System

- Protects, routes, and manages large quantities of twisted pair data cables into and out of any Net-Access™ Cabinet
- When ordered integrated into the cabinet, the cabinet top cable routing system provides up to a 30% reduction in installation costs
- Available as an integral design with the cabinet or as a stand-alone accessory





SN7TCDW SN8TCDW



SN1070CREC SN1200CREC SN1200VCREC

Part Number	N- Type Compatibility	S-Type Compatibility	Width of Cabinet mm	Depth of Cabinet mm	Description
Integral Top Hat					
STH61B				1070	
STH62B			600	1200	
STH71B	_		700	1070	
STH72B				1200	Тор Сар
SNTH81B			800	1070	
SNTH82B	Х	Х		1200	
SN7TCDW	_		600/700		
SN8TCDW			800	_	Divider Wall
SN1070CREC	x			1070	
SN1200CREC			_		End of Row Cap
SN1200VCREC				1200	End of Row Cap (VED)

For other colors replace suffix B (Black) with W (White).



## Net-Contain<sup>™</sup> Vertical Exhaust Duct

#### **Passive Cooling for High Density Applications**

Net-Contain<sup>™</sup> Vertical Exhaust Duct (VED) Systems optimize cooling energy utilization to support high density heat loads to enable 30kw or greater per cabinet. VEDs passively separate hot exhaust air from cooling air and direct hot exhaust air from active equipment into the Computer Room Air Handler (CRAH) air return system, allowing higher return air temperature improving CRAH and heat exchanger system efficiency up to 40% or more.

## Net-Contain<sup>™</sup> Vertical Exhaust Duct System Benefits

- Flexibility and Versatility Multiple sizes, heights and adjustable height features allow system to adapt to virtually any data center structure including slab floors or raised floors and facilities with or without drop ceilings
- Speed Deployment and Reduce Installation Cost Fast, simple assembly and integral ceiling seal reduce installation time by 30% compared to competitive offerings
- Enhance Your Data Center Environment Vertical Exhaust Duct and Net-Access<sup>™</sup> Cabinets with sealed, solid rear doors dampen equipment noise
- Bond Vertical Exhaust Duct with single connection improves system reliability and protection to personnel Entire VED is fully electrically bonded to the cabinet requiring no grounding whips for protection of equipment and personnel





### Net-Contain<sup>™</sup> Vertical Exhaust Ducts (VEDs)

	Part Number	N-Type Compatibility	S-Type Compatibility	Description
	C2VED**I1626B1			VED – Adjustable from 406mm (16") up to 660mm (26") Height
	C2VED**I2638B1	Х	x	VED – Adjustable from 660mm (26") up to 965mm (38") Height
	C2VED**I3866B1			VED – Adjustable from 965mm (38") up to 1676mm (66") Height

Contact Panduit for a VED Ready N-Type or S-Type cabinet.

### Net-Access<sup>™</sup> Cabinet Accessories



Part Number	N- Type Compatibility	S-Type Compatibility	RU	Width of Cabinet mm	Description				
Doors	Doors								
N8*DHDB	x			000	Dual Hinge Front, Black				
N8*SHDB	~	_		800					
S6*SHDB				600	Oracle Hissas Frank Disels				
S7*SHDB			42,45,48,51	700	Single Hinge Front, Black				
S8*SHDB	_			800					
S6*SDB				600					
S7*SDB				700	Split Perforated Rear, Black				
SN8*SDB	Х	X		800					
S6*SSHDB				600					
S75SSHDB	_				Calid Dear Diack				
S78SSHDB				700	Solid Rear, Black				
SN8*SSHDB	Х			800					



Part Number	N- Type Compatibility	S-Type Compatibility	RU	Depth of Cabinet mm	Description		
Cabinet Side Panels							
N*1SPS	x –			1070	Split, Black		
N*2SPS	^	_	42,45,48,51	1200	Эріп, Біаск		
S*1SPSE				1070	Colit Llipsod Block		
S*2SPSE				1200	Split Hinged, Black		
S*1SPD2B	_	х		1070	Day 2, Post Cabinet		
S*2SPD2B				1200	Installation, Black		
SPSPNL				1070 or 1200	Partial Side Panel, Black		

Part Number	N-Type Compatibility	S-Type Compatibility	RU	Description
Equipment Rail Se	ets			
SN*RC	X	Х		1 Set of REAR Rails - Cage Nut
N*RT		_		1 Set of REAR Rails - Tapped
N*RTFR	Х		42,45,48,51	Front and Rear Rail Kit - Tapped
N*RCFR	I*RCFR			Front and Rear Rail Kit - Cage Nut
S*RP	_	Х		For 600mm Cabinets - Vertical Patch

\*2 = 42RU, 5 = 45RU, 8 = 48RU, 1 = 51RU. Parts reflect Black; may also be available in White.

SN5RC

### Net-Access<sup>™</sup> Cabinet Accessories (continued)



PDU Brackets and Cable Management         SN15F       Finger Kit (100mm Deep) 42-45 RU Cabinets         SN25F       Finger Kit (150mm Deep) 42-45 RU Cabinets         SN18F       Finger Kit (150mm Deep) 42-45 RU Cabinets         SN28F       X         SN11F       Finger Kit (100mm Deep) 48 RU Cabinets         SN21F       -         SPDUBRK       -         S2BRK6       -         S2BRK12       -         SN3VCM       -         X       Combination PDU/Cable Management Bracket - 6" Wide         SN8VCM       -         X       Vertical Cable Management Bracket - 12" Wide         SN8VCM       -         X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8VCM       -         X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8VCM       -         X       -         S1DR       -         S1DR       -         S1LR				
SN15F       Finger Kit (100mm Deep) 42-45 RU Cabinets         SN25F       Finger Kit (150mm Deep) 48 RU Cabinets         SN18F       Finger Kit (150mm Deep) 48 RU Cabinets         SN28F       X         SN1F       Finger Kit (150mm Deep) 48 RU Cabinets         SN28F       Finger Kit (100mm Deep) 48 RU Cabinets         SN1F       Finger Kit (100mm Deep) 48 RU Cabinets         SN1F       Finger Kit (100mm Deep) 48 RU Cabinets         SN1F       Finger Kit (100mm Deep) 51 RU Cabinets         SN1F       -       PDU Bracket - Sold in Pairs         S2BRK6       -       PDU Bracket - Sold in Pairs         S2BRK12       -       PDU Bracket - 6" Wide         SN7VCM       -       Combination PDU/Cable Management Bracket - 12" Wide         SN8VSM       X       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         SN8VCM       X       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         S1DR       X       X       RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       1 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       End of Row Slack Spool	Part Number			Description
SN25F       Finger Kit (150mm Deep) 42-45 RU Cabinets         SN25F       Finger Kit (150mm Deep) 48 RU Cabinets         SN28F       X         SN28F       X         SN1F       Finger Kit (150mm Deep) 48 RU Cabinets         SN21F       Finger Kit (150mm Deep) 48 RU Cabinets         SN29F       -         SPDUBRK       Finger Kit (150mm Deep) 51 RU Cabinets         S2BRK6       -         S2BRK6       -         S2BRK12       -         SN2F       -         SN8VCM       X         X       X         SN8FBB       -         S1DR       X         S1DR       -         S1LR <t< th=""><th>PDU Brackets and</th><th>Cable Mana</th><th>igement</th><th></th></t<>	PDU Brackets and	Cable Mana	igement	
SN18F       X       Finger Kit (100mm Deep) 48 RU Cabinets         SN28F       X       Finger Kit (100mm Deep) 48 RU Cabinets         SN1FF       Finger Kit (150mm Deep) 48 RU Cabinets         SN2F       Finger Kit (150mm Deep) 51 RU Cabinets         SN2F       Finger Kit (150mm Deep) 51 RU Cabinets         SN2F       Finger Kit (150mm Deep) 51 RU Cabinets         SN2F       -       PDU Bracket - Sold in Pairs         SS2BRK6       -       PDU Bracket - Sold in Pairs         S2BRK12       -       PDU Bracket - 6" Wide         SN2VCM       -       Combination PDU/Cable Management Bracket - 12" Wide         SN8VCM       X       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SSN8FBB       X       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SSN8FBB       X       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SSN8FBB       X       X       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         SSLR       S2R       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM <th>SN15F</th> <th></th> <th></th> <th>Finger Kit (100mm Deep) 42-45 RU Cabinets</th>	SN15F			Finger Kit (100mm Deep) 42-45 RU Cabinets
SN28F       X       X       Finger Kit (150mm Deep) 48 RU Cabinets         SN11F       Finger Kit (150mm Deep) 51 RU Cabinets       Finger Kit (150mm Deep) 51 RU Cabinets         SN21F       -       PDU Bracket - Sold in Pairs         SPDUBRK       -       PDU Bracket - Sold in Pairs         S2BRK6       -       PDU Bracket - Sold in Pairs         S2BRK12       -       Combination PDU/Cable Management Bracket - 12" Wide         SN7VCM       -       Vertical Cable Management Bracket - 12" Wide         SN8FBB       X       Vertical Cable Management Bracket - 12" Wide         SN8VCM       X       Vertical Cable Management Bracket - 12" Wide         SN8FBB       -       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         SSN8FBB       -       Vertical Cable Management Bracket - 800mm Wide Cabinets         SSN8FBB       -       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2DR       -       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1DR       -       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1DR       -       -       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM	SN25F	x		Finger Kit (150mm Deep) 42-45 RU Cabinets
SN28F       X       Finger Kit (150mm Deep) 48 RU Cabinets         SN11F       Finger Kit (100mm Deep) 51 RU Cabinets         SN21F       -         NVPDUBE       -         S2BRK6       -         S2BRK6       -         S2BRK12       -         SNVVCM       -         SN8VCM       -         SN8FBB       -         SN8FBB       -         S1DR       -         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       -         S1LR       -         S2LR       -         S1LR       -         S1LR       -         S2LR       -         S1LR       -         S2LR       -      <	SN18F		X	Finger Kit (100mm Deep) 48 RU Cabinets
SN21F       Finger Kit (150mm Deep) 51 RU Cabinets         NVPDUBE       -         SPDUBRK       -         S2BRK6       -         S2BRK12       -         SN7VCM       -         SN8VCM       -         S1DR       -         S1DR       -         S1DR       -         S1LR       -      I	SN28F		Х	Finger Kit (150mm Deep) 48 RU Cabinets
NVPDUBE       -       PDU Bracket - Sold in Pairs         SPDUBRK       -       PDU Bracket - Sold in Pairs         S2BRK6       -       Combination PDU/Cable Management Bracket - 12" Wide         SN7VCM       -       Combination PDU/Cable Management Bracket - 12" Wide         SN8VCM       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         S1DR       X       X         S1DR       X       I RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       -       1 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       -       End of Row Slack Spool         S1LR       X       -         S1LR       X       -         S1LR       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       End of Row Slack Spool         S1LR       X       -       End of Row Slack Spool         S1A       -       End of Row Slack Spool         S1A       - <td< th=""><th>SN11F</th><th></th><th>Finger Kit (100mm Deep) 51 RU Cabinets</th></td<>	SN11F			Finger Kit (100mm Deep) 51 RU Cabinets
SPDUBRK       PDU Bracket - Sold in Pairs         S2BRK6       -       Combination PDU/Cable Management Bracket - 6" Wide         S2BRK12       -       Combination PDU/Cable Management Bracket - 12" Wide         SN7VCM       Vertical Cable Management Bracket - 12" Wide         SN8VCM       X       Vertical Cable Management Bracket - 300mm Wide Cabinets         SN8FBB       X       Vertical Cable Management Bracket - 300mm Wide Cabinets         S1DR       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         S1DR	SN21F			Finger Kit (150mm Deep) 51 RU Cabinets
SPDUBRK       -       Combination PDU/Cable Management Bracket - 6" Wide         S2BRK12       -       Combination PDU/Cable Management Bracket - 12" Wide         SN7VCM       Vertical Cable Management Bracket - 12" Wide         SN8VCM       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8FBB       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         S1DR       X       Front to Back Cable Management Bracket - 800mm Wide Cabinets         S2DR       Front to Back Cable Management Bracket         S1DR       -       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2DR       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       1 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1Ack Spools       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1Ack Spools       X       -         NACSS       X       -         S7VPPB       -       Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")         Vertical Patch       -       X       Vertical Patch Bracket for 700mm Wide Cabinets <t< th=""><th>NVPDUBE</th><th></th><th>_</th><th>DDU Drashat, Oshidin Daim</th></t<>	NVPDUBE		_	DDU Drashat, Oshidin Daim
S2BRK12       -       Sracket - 6" Wide         S2BRK12       -       Combination PDU/Cable Management Bracket - 12" Wide         SN7VCM       -       Vertical Cable Management Bracket - 700mm Wide Cabinets         SN8VCM       X       Vertical Cable Management Bracket - 800mm Wide Cabinets         SN8FBB       -       Vertical Cable Management Bracket - 800mm Wide Cabinets         S1DR       X       Front to Back Cable Management Bracket         S1DR       -       1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2DR       -       2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       -       1 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1ack Spools       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1ack Spools       X       -         NACSS       X       -         S10       Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")         Vertical Patch       -       X         S10       -       Vertical Patch Bracket for 700mm Wide Cabinets	SPDUBRK			PDU Brackel - Sold in Pairs
SN7VCMXXVertical Cable Management Bracket - 700mm Wide CabinetsSN8VCMXXVertical Cable Management Bracket - 800mm Wide CabinetsSN8FBBXVertical Cable Management Bracket - 800mm Wide CabinetsS1DRAIRU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS2DR2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LRIRU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LR2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LRX2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LRX-S1LR<	S2BRK6			
SN8VCMXXSN8FBBXXSN8FBBXSN8FBBXSN8FBBXSN8FBBXSN8FBBXSN8FBBXVertical Cable Management Bracket - 800mm Wide CabinetsSN8FBBASN8FBBI RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM 2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR-S1LR	S2BRK12	- 	×	
XXXSN8FBBXXSN8FBBFront to Back Cable Management BracketS1DRI RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS2DR2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS1LRI RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMS2LR2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMSlack Spools2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCMNACSSX—NACSSX—SN8VPPBXVertical Patch Bracket for 700mm Wide CabinetsSN8VPPBXYertical Patch Bracket for 800mm	SN7VCM			
SN8FBB       Front to Back Cable Management Bracket         S1DR       1 RU D-Ring Kit to be used with         S2DR       2 RU D-Ring Kit to be used with         S2DR       2 RU D-Ring Kit to be used with         S1LR       1 RU L-Ring Kit to be used with         S2LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       1 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM       2 RU L-Ring Kit to be used with         S1ACK Spools       2 RU L-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Kit to be used with         S1ACK Spools       2 RU C-Ring Ki	SN8VCM			Vertical Cable Management Bracket - 800mm Wide Cabinets
S2DR       S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2DR       2 RU D-Ring Kit to be used with         S1LR       1 RU L-Ring Kit to be used with         S2LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       1 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1ack Spools         NACSS       X         Vertical Patch         S7VPPB       -         X       Vertical Patch Bracket for 700mm         Wide Cabinets       Vertical Patch Bracket for 800mm	SN8FBB			Front to Back Cable Management Bracket
S1LR       S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       1 RU L-Ring Kit to be used with         S2LR       2 RU L-Ring Kit to be used with         S1LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1LR       2 RU L-Ring Kit to be used with         S2BRK6, S2BRK12, SN7VCM and SN8VCM         S1ack Spools         NACSS       X         X       —         End of Row Slack Spools         Vertical Patch         S7VPPB       —         X       Vertical Patch Bracket for 700mm         Wide Cabinets         SN8VPPB       X	S1DR			
S2LR       S2BRK6, S2BRK12, SN7VCM and SN8VCM         S2LR       2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM         Slack Spools       End of Row Slack Spool         NACSS       X       -         Adjustable Center Slack Spools       Adjustable Center Slack Spools         Vertical Patch       S7VPPB         SN8VPPB       X       Vertical Patch Bracket for 700mm Wide Cabinets         SN8VPPB       X       Vertical Patch Bracket for 800mm	S2DR			
SIack Spools     S2BRK6, S2BRK12, SN7VCM and SN8VCM       NACSS     X     —     End of Row Slack Spool       NACSS     X     —     Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")       Vertical Patch     SN8VPPB     X     Vertical Patch Bracket for 700mm Wide Cabinets       SN8VPPB     X     Vertical Patch Bracket for 800mm	S1LR	_		
NERSS     X     -     End of Row Slack Spool       NACSS     X     -     Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")       Vertical Patch     S7VPPB     -     Vertical Patch Bracket for 700mm Wide Cabinets       SN8VPPB     X     X     Vertical Patch Bracket for 800mm	S2LR			
NACSS     X     -     Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")       Vertical Patch     -     X       SN8VPPB     X     X	Slack Spools			
Adjustable Center Stack Spools 210mm (8.3") to 267mm (10.5")       Vertical Patch       S7VPPB    X       X     Vertical Patch Bracket for 700mm Wide Cabinets       SN8VPPB     X	NERSS			End of Row Slack Spool
SN8VPPB     X     Vertical Patch Bracket for 700mm Wide Cabinets       X     Vertical Patch Bracket for 800mm	NACSS	Х	_	
X     Wide Cabinets       SN8VPPB     X	Vertical Patch			
SN8VPPB X Vertical Patch Bracket for 800mm	S7VPPB	_	X	
	SN8VPPB	Х	Х	

S7VPPB SN8VPPB

### Net-Access<sup>™</sup> Cabinet Accessories (continued)

PANDUIT®

		Part Number	N-Type Compatibility	S-Type Compatibility	Description		
		Casters					
	<b>ACDB</b>	NCSTR4	Х	_	2 Fixed Casters for Front - 2 Swivel Casters		
NCSTR4	SCSTR4	SCSTR4	_	Х	for Rear		
		OSHPD Brackets					
		NAKOSHPD	Х	_	Oshpod Bracket for N-Type Cabinet		
		SAKOSHPD	—	Х	Oshpod Bracket for S-Type Cabinet		
NAKOSHPD	SAKOSHPD	Locks					
		CCL3	Х	Х	3-digit Combination Locks with Key Over-ride for Single Hinge or Split Doors		
		Shelves					
CCL3	RSHLF	RSHLF23		x	Shelf Kit - 44mm H x 483mm W x 584mm D Load Rating 275 lbs.		
	NONEF	RSHLF	Х		Shelf Kit - 44mm H x 483mm W x 762mm D Load Rating 275 lbs.		

### NetAccess<sup>™</sup> Cabinet Thermal Management Accessories

	Part Number	N-Type Compatibility	S-Type Compatibility	Description		
11	Vertical Blanking Panels					
XX	NVBP	Х	_	Vertical Blanking Panels with Pass Thru Openings for 42-48 RU		
	S6VBPN			Vertical Blanking Panels (No Pass Thru Openings)		
a a	S7VBPN			S6VBPN used with 600mm and S7VBPN used with 700mm cabinets		
	S8VBPN	-	Х*	Vertical Blanking Panels with 1x5 Knockouts S8VBPN and S8VBPNE used with 800mm cabinets		
NVBP S8VPBNE	S8VBPNE			Vertical Blanking Panels with 19" 1 RU Pass Thru Openings		
	Floor Seals					
	N2EOR1BA1070B1					
N2EOR1BA1070B1	N2EOR1CA1200B1		_	End of Row Floor Seal for 1070mm Deep Cabinets		
N2EOR1CA1200B1	S2EOR1BA1070B1					
	S2EOR1BA1200B1	Х	_	End of Row Floor Seal for 1200mm Deep Cabinets		
·	C2FAB06A1200B1		Х			
C2FAB**A1200B1	C2FAB07A1200B1			Front or Back Floor Seal		
	C2FAB08A1200B1					

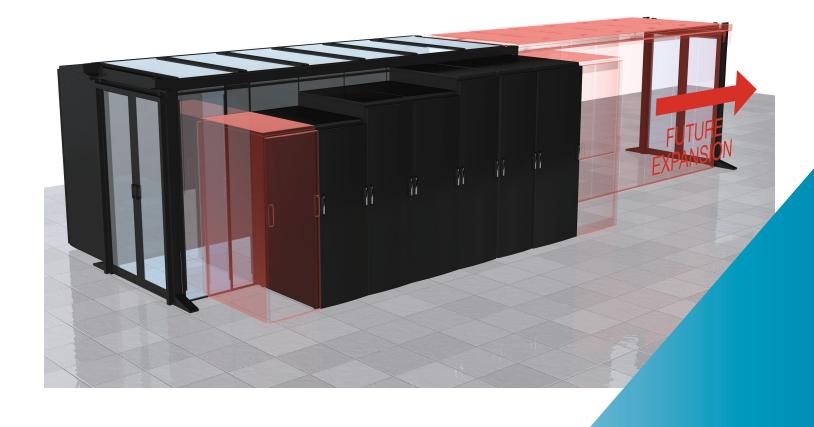
\*S-Type Universal Cabinets only.



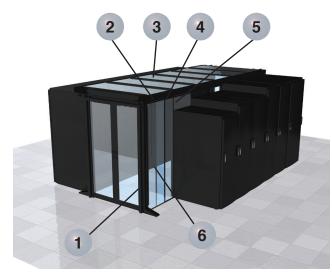
## Net-Contain<sup>™</sup> Universal Containment System

The Universal Containment System allows user to go back and reclaim underutilized cooling capacity, reduce energy expense and redue OpEx by retrofitting the existing data center with an innovative containment system. The system includes independent support structure, sliding doors, vertical blanking panels, and roof structure.

This offering can be configured in Vertical Wall (HotAisle Containment) and Roof Containment (Cold Aisle Containment) and allows the addition of cabinets (Panduit or non-Panduit) of varing sizes and design as needs dictate, reducing deployment time and capital investment.

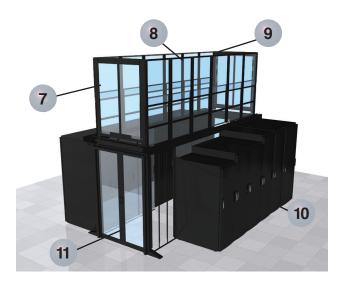






#### **Roof Containment**

Typically used for Passive Cold Aisle Containment; deployed either on raised floor or within-row cooling.



#### **Vertical Wall Containment**

Typically used for Passive Hot Aisle Containment or Ceiling Discharge Cold Aisle Containment.

Part Number       Description         CUEFRT**^^       End of row frames form the Universal Aisle Containment structure at each end of a contain         CUWBPS**ST02^^       Wall beam used to help create the UAC frame; configurations of 4 available wall beams will aisle lengths to be contained.         CUSMPR52ST01^^       Mid-span post that provides structural support to the UAC frame; required for every 2400 m populated row.	ill allow all nm on partially
1       CUWBPS**ST02^^       Wall beam used to help create the UAC frame; configurations of 4 available wall beams will aisle lengths to be contained.         2       CUSMPR52ST01^^       Mid-span post that provides structural support to the UAC frame; required for every 2400 m	ill allow all nm on partially
<ul> <li>CUSMPR52ST01^^</li> <li>Mid-span post that provides structural support to the UAC frame; required for every 2400 m</li> </ul>	nm on partially
This open poor and provided direction of the origination of the origin	
	frame.
4 CURFS06F**HB^^ Integral ceiling structure used for aisle containment and mounted onto the top of the UAC f	
5 <b>CUTBPR0610HBN1</b> Top of cabinet blanking panel used to fill gaps above cabinets; needed when cabinet heigh UAC frame size.	it is less than
6 <b>CUFBPR**06HB^^</b> Full blanking panel used to fill gap in containment where cabinets have not been deployed; directly under UAC frame.	; mount
7 C2HACERI1626^^ End of row adjustable vertical wall used to seal at the end of the UAC and mounted above frame for aisle containment.	end of row
8 C2HAC**I1626^^ Adjustable vertical wall mounted onto UAC frame to seal gap up to ceiling plenum in aisle of	containment.
9 CUVWB12S12ST^^ Vertical wall brace is mounted across the aisle between wall beams to provide extra stability containment.	ty in aisle
10 CUVWA**S**ST^^ Vertical wall adapter used to mount Vertical Walls to UAC frame in aisle containment.	
CUD*SD^1       Dual sliding doors provide thermal seal at the end of the row and attach to the end of row f         11       Dual sliding doors provide thermal seal at the end of the row and attach to the end of row f	frames.

^^B1 = Black, W1 = White.

\*\*Please reference www.panduit.com for information on the Net-Contain Universal Containment System.



### Net-Contain<sup>™</sup> Universal Aisle Containment and Single Aisle Containment



**End of Row Frames** 

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
CUSREFRT8B1*		X	000	42 RU to 45 RU	USRC
CUSREFRT9B1*			900	48 RU to 52 RU	
CUEFRT8W04B1	v		1200	42 RU to 45 RU	UAC
CUEFRT9W04B1	X			48 RU to 52 RU	
CUEFRT8W06B1			1000	42 RU to 45 RU	
CUEFRT9W06B1		_	1800	48 RU to 52 RU	

\*Used with CUEFRCKITB1 conversion kit for applications with 2 rows of cabinets. USRC represents Universal Single Row Containment. UAC represents Universal Aisle Containment.

#### **USRC to UAC Conversion Kit**

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
CUEFRCKITB1	Х	Х	900	_	UAC

Attaches to end of row frames.

#### **Full Height Blanking Panels**

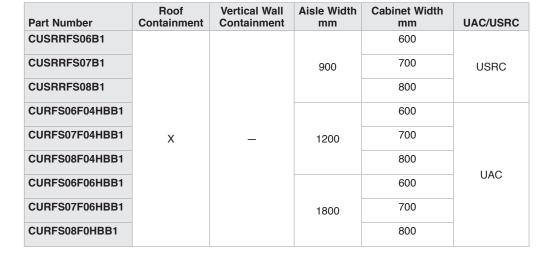
Part Number	Roof Containment	Vertical Wall Containment	Panel Width mm	RU	UAC/USRC
CUFBPR4206HBB1	X	x	600	42	
CUFBPR4506HBB1				45	
CUFBPR4806HBB1				48	UAC/USRC
CUFBPR5206HBB1				52	

#### **Top of Cabinet Blanking Panel**

Part Number	Roof Containment	Vertical Wall Containment	Width mm	Height mm	UAC/USRC
CUTBPR0610HBN1	Х	Х	1000	600	UAC/USRC

#### CUTBPR0610HBN1

Roof	Sections
------	----------





CUEFRT8F06STB1



CUEFRCKITB1



CUFBPR4506HBB1





**CURFS08F06** 

Continued on next page

### Net-Contain<sup>™</sup> Universal Aisle Containment and Single Aisle Containment (continued)





**Drop Away Panels** Vertical Wall Aisle Width **Cabinet Width** Roof Part Number Containment Containment UAC/USRC mm mm CUCGF03DPB1 900 CUCGF04DPB1 1200 Х UAC CUCGF06DPB1 1800

CUCGF06DPB1

#### End of Row Kits for Drop Away Panels



Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
CUEORF03DPB1			900		
CUEORF04DPB1	х	_	1200	_	UAC
CUEORF06DPB1			1800		

#### **Vertical Wall Adapters**



Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
CUSRVWA06B1				600	
CUSRVWA07B1				700	UAC/USRC
CUSRVWA08B1	_	X _		800	
CUVWA06S06STB1			600		
CUVWA07S07STB1				700	UAC
CUVWA08S08STB1				800	

#### **Vertical Wall Brace**



Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
CUSRVWBB1	_	х	900	_	USRC
CUVWB12S12STB1			1200		UAC

CUSRVWBB1



#### Vertical Wall

Part Number	Roof Containment	Vertical Wall Containment	Adjustability In.	Cabinet Width mm	UAC/USRC
C2HAC0*I1626B1	_	x	16-26	600/700/800	UAC/USRC
C2HAC0*I2638B1			26-38		
C2HAC0*I3866B1			38-66		

C2HAC0\*13866B1

\*For width size, use 06 (600mm), 07 (700mm) or 08 (800mm).

## Net-Contain<sup>™</sup> Universal Aisle Containment and Single Aisle Containment (continued)

#### End of Row Vertical Wall



C2HAC0\*13866B1

Part Number	Roof Containment	Vertical Wall Containment	Adjustability In.	Aisle Width mm	UAC/USRC
CUSRVWER1626B1			16-26		
CUSRVWER2638B1	· ·		26-38	1000	USRC
CUSRVWER3866B1			38-66		
C2HACERI1626B1		~	X 16-26 1200	1200	
C2HACERI2638B1			26-38	-	UAC
C2HACERI3866B1			38-66		



CUSR1SDLHB1

#### **Sliding Doors**

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Description	UAC/USRC	
CUSR1SDLHB1				Single Sliding, Left Hand Opening	11000	
CUSR1SDRHB1	х	Х	900     Single Sliding, Right Hand Opening       1200/1800     Double Sliding Door       1200/1800     Double Sliding Door, Packaged as a Pair	USRC		
CUD1SDB1				0	UAC	
CUD2SDB1				Door, Packaged		

CUD1SDB1



For other colors, replace B1 (Black) with S1 (Silver).

#### **End Of Row Caps**

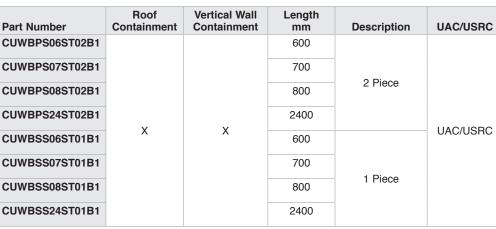
Wall Beams

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	UAC/USRC
CUSREORCPB1	х	х	900	UAC/USRC
CUEOR12CPB1			1200	114.0
CUEOR18CPB1			1800	UAC

CUEOR12CPB1



CUWBPS08ST02B1



Continued on next page

## Net-Contain<sup>™</sup> Universal Aisle Containment and Single Aisle Containment (continued)

#### **Mid-Span Cabinet Support** Roof Vertical Wall Height Containment Containment UAC/USRC Part Number mm 6 . . . . . CUCMSS03ST01NC 300 Х Х UAC/USRC CUCMSS06ST01NC 600 CUCMSS03ST01NC

#### Mid-Span Post

**Cabinet to Floor Seal** 

Part Number	Roof Containment	Vertical Wall Containment	RU	UAC/USRC
CUSMPR52ST01B1	Х	Х	42-52	UAC/USRC

#### CUSMPR52ST01B1



CUCFS06B1, CUCFS07B1, CUCFS08B1, CUCFS10B1

Part Number	Roof Containment	Vertical Wall Containment	Cabinet Width mm	UAC/USRC
CUCFS06B1			600	
CUCFS07B1		X	700	
CUCFS08B1	X	Х	800	UAC/USRC
CUCFS10B1			1000	

#### **Building Column Adapter**

Part Number	Roof Containment	Vertical Wall Containment	UAC/USRC
CUCAKITB1	X	X	UAC/USRC

For other colors, replace B1 (Black) with W1 (White).



## Net-Contain<sup>™</sup> Cabinet Supported Cold Aisle/Hot Aisle Containment

The Net-Contain<sup>™</sup> Cabinet Supported Cold Aisle Containment (CAC) System provides a physical separation between the cold air and the hot exhaust air by enclosing the cold aisle. The goal of a CAC system is to supply cold air to the cold aisle where the equipment air intakes are located to optimize airflow distribution and improve cooling system thermal performance. As a result, a cold aisle system is typically used in high-density data centers because it is more efficient to direct cold air onto densely populated racks than to cool the entire room.

The Net-Contain<sup>™</sup> Cabinet Supported Hot Aisle Containment (HAC) System provides a physical separation between the cold air and the hot exhaust air by enclosing the hot aisle. The goal of a HAC system is to capture all of the cabinet exhaust air and return it to the cooling units. HAC optimizes airflow distribution and cooling system performance. The remaining area outside of the HAC becomes a cold room with ambient air temperature close to the supply air temperature.

This integrated system is compatible with numerous Panduit product lines including; Net-Access<sup>™</sup> N-Type and S-Type Cabinets, FiberRunner<sup>®</sup>, and Wyr-Grid<sup>®</sup> Overhead Cable Routing Systems.

#### **Benefits**

**Energy Efficiency:** Prevents hot spots and allows installation of high-density server cabinets close together in new builds or existing data centers, reducing the need for extra real estate and CRAH units lowering operating costs.

**Optimized Airflow Distribution:** Prevents mixing of cold and hot air streams; eliminates recirculation of hot air to cabinet inlets; provides uniform temperature at the inlets of IT equipment; prevents cold air bypass optimizing cool air delivery.

**Improves Thermal Performance:** Allows raising supply air set point temperature; higher return air temperature increases the thermal efficiency of cooling units, reducing cooling energy cost up to 30%.



### Net-Contain<sup>™</sup> Aisle Containment Systems

Panduit's Passive Cold Aisle Containment (CAC) and Hot Aisle Containment (HAC) Systems provide a physical separation between the cold air and the hot exhaust air. This integrated system is compatible with numerous Panduit product lines including; Net-Access<sup>™</sup> N-Type and S-Type Cabinets, FiberRunner<sup>®</sup>, and Wyr-Grid<sup>®</sup> Overhead Cable Routing Systems.



C2CAC08F04IRB1B1





C2HAC08I1626B1



C2HACERI1626B1

Part Number	Aisle Width mm	Cabinet Width mm	Adjustability In.	RU	Compatible With CAC/HAC
Low Profile Ceiling	g Structures				
C2CAC06F04IRB1		600			
C2CAC07F04IRB1	1200	700			
C2CAC08F04IRB1		800			0.10
C2CAC06F06IRB1		600	_	_	CAC
C2CAC07F06IRB1	1800	700			
C2CAC08F06IRB1		800			
Integral Roof Wall	Panels		,		
C2CAC06F08WPB1		600			
C2CAC07F08WPB1	_	700	_	_	CAC
C2CAC08F08WPB1		800			
Row Base Cooling	Blanking Pa	nels			
C2CAC03ABWPAB1		600			
C2CAC04ABWPAB1	_	700	_	_	CAC
C2CAC06ABWPAB1		800			
Adjustable Vertica	I Walls				
C2HAC**I1626B1			16-26		
C2HAC**I2638B1	_	600/700/800	26-38	_	HAC
C2HAC**I3866B1			38-66		
Adjustable EOR Ve	ertical Walls				
C2HACERI1626B1			16-26		
C2HACERI2638B1	—	600/700/800	26-38	_	HAC
C2HACERI3866B1			38-66		

### Net-Contain<sup>™</sup> Aisle Containment Systems (continued)

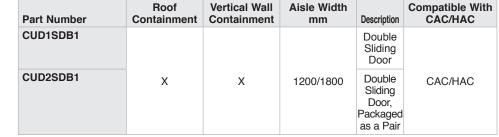
**End of Row Caps** 



#### C2CEOR04CP2B1

Part Number	Aisle Width mm	Width of Cabinet mm	Adjustability In.	RU	Compatible With CAC/HAC
C2CEOR04CP2B1				42	
C2CEOR04CP5B1	1000		_	45	
C2CEOR04CP8B1	1200			48	
C2CEOR04CP1B1				51	CAC/HAC
C2CEOR06CP2B1				42	CAC/HAC
C2CEOR06CP5B1	1000			45	
C2CEOR06CP8B1	1800			48	
C2CEOR06CP1B1				51	

#### **Sliding Doors**



For other colors, replace B1 (Black) with S1 (Silver).

#### **Sliding Door Adapter Frames**

C2SDT8W	04DAB1

CUD1SDB1

Part Number	Aisle Width mm	Width of Cabinet mm	Adjustability In.	RU	Compatible With CAC/HAC
C2SDT8W04DAB1	1200			42-45	
C2SDT9W04DAB1	1200		_	48-51	000/1100
C2SDT8W06DAB1	1000			42-45	CAC/HAC
C2SDT9W06DAB1	1800			48-51	

For other colors, replace B1 (Black) with W1 (White). Single sliding doors are also available in Silver. Replace B1 (Black) with S1 (Silver).

Replace \*\* with 06 (600mm), 07 (700mm) or 08 (800mm).

## Direct Cold Air to Where it is Needed



# Net-Direct<sup>™</sup> Inlet Ducts enable optimized containment by effectively directing airflow to improve network reliability

- Inlet duct solutions deliver cooling air directly from the cold aisle into the intake fans of switches
- Inlet ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures front to back cooling airflow which enables an effective deployment of network switches with a Net-Contain<sup>™</sup> Cold Aisle Containment deployment
- Inlet ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus, Catalyst and MDS Switches and Juniper Networks^^ EX Series Switches.

## Direct Hot Air to Where it Needs to Exhaust



### Net-Direct<sup>™</sup> Exhaust Ducts direct hot exhaust air out of a cabinet away from adjacent devices within non-contained environments

- Exhaust duct solutions channel hot exhaust air directly to the hot aisle, away from the cold air inlet of adjacent switches
- Exhaust ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures switch exhaust airflow is directed to the hot aisle enabling effective deployment of network switches with a standard hot aisle/ cold aisle configuration
- Exhaust ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus and Catalyst Switches.

Patented\* In-Cabinet Ducting optimizes cooling system efficiency by establishing front-to-back airflow patterns through the cabinet.

<sup>A</sup>Cisco, Catalyst, and Cisco Nexus are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries. <sup>A</sup>Juniper Networks is a registered trademark of Juniper Networks, Inc.

\*Patents #8,035,965, #7,855,885 and #7,595,985 - Network Cabinet with Thermal Airflow Management System.

## Net-Direct<sup>™</sup> In-Cabinet Ducting

• Net-Direct<sup>™</sup> Passive Cabinet Inlet Ducting directs cooling air from the cold aisle into the intake fans of switches

 Net-Direct<sup>™</sup> Passive Cabinet Exhaust Ducting directs exhaust air from the side exhaust of the switch into the hot aisle



Part Number	Part Description	Std. Pkg Qty.
Air Inlet Ducting		
CDE1	Air inlet duct, 1 RU that resides below the switch provides cold aisle airflow to Cisco <sup>^</sup> Catalyst <sup>^</sup> 4948, 4928, and 4924. Optimized for use in server cabinet applications.	
CDE2	Air inlet duct, 1 RU that resides in-line and below switch provides cold aisle airflow to Cisco Nexus <sup>^</sup> N2K-C2148T-1GE, N2K-C2248TP-1GE, and N2K-C2232PP-10GE fabric extenders and Cisco <sup>^</sup> WS-C4948E-F, WS-C4948E-F-S, and WS-C4948E-F-E. Optimized for use in server cabinet applications.	
CNLTD21B2	Air inlet duct designed for Cisco <sup>^</sup> Catalyst <sup>^</sup> 4900M switch. Consists of one 2 RU inlet duct and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	-
CNLTD52A2	Air inlet duct designed for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6504-E switch. Consists of 2 RU top and 2 RU bottom inlet ducts and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	~
DIRLC2214M21W	Air inlet duct designed for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6509-E switch. Consists of 2 RU top and 2 RU bottom inlet ducts and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	
DIRBB2007S21W	Air inlet duct designed for Cisco <sup>^</sup> Nexus <sup>^</sup> 7004 switch. Consists of one 2 RU inlet duct and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	
CNLTD142A3	Air inlet duct designed for Cisco <sup>^</sup> Nexus <sup>^</sup> 7009 switch. Consists of 3 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	1
CNLTD72A3	Air inlet duct designed for Cisco <sup>^</sup> MDS 9506 switch. Consists of 3 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	
DIBBC2314S21W	Air inlet duct designed for Cisco <sup>^</sup> MDS 9513 switch. Consists of 2 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access <sup>™</sup> N-Type Network Cabinets.	~
CID1RU22-23DB1	Air inlet 1RU duct for Cisco <sup>^</sup> Nexus <sup>^</sup> 9372 switch, compatible with 21.5" – 23.5" switch depth.	
CID2RU16-20DB1	Air inlet duct for Cisco <sup><math>^</math> TOR switches, 2RU, depth compatible with 16" – 20" switch depth.</sup>	
DIFBA2002S00S	Air inlet duct for Cisco <sup>^</sup> Nexus <sup>^</sup> 9396 switch.	
DIFBA3003S00S	Air inlet duct for Cisco <sup>^</sup> Nexus <sup>^</sup> 93128 switch.	
DIRLC3210S17W	Air inlet duct for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6807XL switch.	
DIRLC25S23W	Air inlet duct for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6880X switch.	
Exhaust Ducting	 	
DERLCC6509A	Air exhaust duct for Net-Access <sup>™</sup> N-Type 1070mm depth cabinets.	

-		
DERLCC6509A	Air exhaust duct for Net-Access <sup>™</sup> N-Type 1070mm depth cabinets. Designed for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6509 switch.	
DERLCC9513A	Air exhaust duct for Net-Access <sup>™</sup> N-Type 1070mm depth cabinets. Designed for Cisco <sup>^</sup> MDS 9513 switch.	-
DERLCC7009A	Air exhaust duct for Net-Access <sup>™</sup> N-Type 1070mm depth cabinets. Designed for Cisco <sup>^</sup> Nexus <sup>^</sup> 7009 switch.	1
DERLCC6513A	Air exhaust duct for Net-Access <sup>™</sup> N-Type 1070mm depth cabinets. Designed for Cisco <sup>^</sup> Catalyst <sup>^</sup> 6513 switch.	

^Cisco, Catalyst, and Cisco Nexus are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.



#### **Thermal Sealing Accessories**



FLBSIM-51



BFS100X2000

TLBP1R-V

TLBP1S-V

Penouit

TLBP2R-V

BR1B

RFG3DY

**RFG5DY** 

RFG6X8Y

RFG8X8Y

RFG\*X\*Y

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.			
Blanking Sha	Blanking Shades						
FLBSIM-51	Full-length blanking shade blanks out 1-51 consecutive rack units on standard 19" (482.6mm) wide vertical mounting rails.	Black	1	_			
Cabinet Blan	king Foam Strip						
BFS100X2000	Adhesive-backed foam strips, 1/16" (1.6mm) closed-cell vinyl foam, perforated to create multiples of 1.00" x 20.00" strips.	Black	1	10			
Tool-Less Bla	anking Panels						
TLBP1R-V	1 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.	Black					
TLBP1R-V10	1 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.	White					
TLBP1S-V	1 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	Black					
TLBP1S-V10	1 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	White	5				
TLBP2R-V	2 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.	Black	0	_			
TLBP2S-V	2 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	Black					
TLBP2S-V10	2 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	White					
TLBP1S-L	1 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	Black	50				
19" Mount Br	rush Seal Kit						
BR1B	1 RU 19" mount brush seal kit with cable pass thru.						
BR2B	2 RU 19" mount brush seal kit with cable pass thru.	Black	1	1			
CoolBoot® Raised Floor Air Sealing Grommet - Integral Mount							
RFG10X8Y	Overall size of 10" x 8" (254.0mm x 203.2mm) allows for 8.2" x 6 2" (208.3mm x 157.5mm) capacity						

RFG10X8Y	Overall size of 10" x 8" (254.0mm x 203.2mm) allows for 8.2" x 6.2" (208.3mm x 157.5mm) capacity.
RFG12X4Y	Overall size of 12" x 4" (304.8mm x 101.6mm) allows for 10.2" x 2.2" (259.1mm x 55.9mm) capacity.
RFG12X8Y	Overall size of 12" x 8" (304.8mm x 203.3mm) allows for 10.2" x 6.2" (259.1mm x 157.5mm) capacity.

diameter capacity.

diameter capacity.

(106.7mm x 157.5mm) capacity.

(157.5mm x 157.5mm) capacity.

Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm)

Overall size of 6.8" (172.7mm) diameter allows for 4.7" (119.4mm)

Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2"

Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2"

Navy

Blue

10

1

30

Std. Std.

### **Thermal Sealing Accessories (continued)**



Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.		
CoolBoot® Ra	aised Floor Air Sealing Grommet - Surface Mount					
RFG10X8SMY	Overall size of 10" x 8" (254.0mm x 203.2mm) allows for 8.2" x 6.2" (208.3mm x 157.5mm) capacity.					
RFG12X4SMY	Overall size of 12" x 4" (304.8mm x 101.6mm) allows for 10.2" x 2.2" (259.1mm x 55.9mm) capacity.					
RFG12X8SMY	Overall size of 12" x 8" (304.8mm x 203.2mm) allows for 10.2" x 6.2" (259.1mm x 157.5mm) capacity.		1			
RFG3DSMY	Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm) diameter capacity.	Navy Blue		10		
RFG5DSMY	Overall size of 6.8" (172.7mm) diameter allows for 4.7" (119.4mm) diameter capacity.					
RFG6X8SMY	Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity.	_				
RFG8X8SMY	Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity.					

Also designed for retrofit application.



CTGN1X5

CTGN3X5



CTGN6X6

Part Number	Part Description	Pkg. Qty.	Ctn. Qty.
CoolBoot® Ca	abinet Top Air Sealing Fitting		
CTGN1X5	Used to seal off 1" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch <sup>™</sup> Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm wide Net-Access <sup>™</sup> Cabinets.		
CTGN3X5	Used to seal off 3" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch <sup>™</sup> Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 700mm, 800mm, and 1000mm wide Net-Access <sup>™</sup> Cabinets.	1	10
CTGN6X6	Used to seal off 6.5" x 6.5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch <sup>™</sup> Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm, 700mm, 800mm, and 1000mm wide Net-Access <sup>™</sup> Cabinets.		





	700mm, 800mm, and 1000mm wide Net-Access <sup>®</sup> Cabinets.		
Cabinet Top (	Cover and Cable Protection Bezel		
CTCN1X5	Used to seal off 1.5" x 5" cabinet top openings. Can also be used to add the CTGN1X5 to openings where the snap-on cover has been removed. For use with Net-Access <sup>™</sup> Cabinets.		10
CTCN3X5	Used to seal off 3.5" x 5" cabinet top openings. Can also be used to add the CTGN3X5 to openings where the snap-on cover has been removed. For use with Net-Access <sup>™</sup> Cabinets.		
CTCN6X6	Used to seal off 6" x 6" cabinet top openings. Can also be used to add the CTGN6X6 to openings where the snap-on cover has been removed. For use with Net-Access™ Cabinets.	1	1
CTNBZL6X6	Used to provide a protective edge for cables routed through the 6.5" x 6.5" cabinet top openings after knock-outs are removed. Can also be used to add the CTGN6X6 to openings where knock-out has been removed. For use with Net-Access <sup>™</sup> Cabinets.		10

CTCN6X6

CTNBZL6X6

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