Net-Contain™ Vertical Exhaust Ducts (VEDs) for Net-Access™ N-Type and S-Type Cabinets



specifications

Vertical exhaust duct shall channel heat from server exhaust directly to the data center return plenum. The system shall increase CRAH unit cooling efficiency and lower operating expenses. The vertical exhaust duct shall leverage existing server fans to direct the flow of hot exhaust air, reducing energy costs and noise levels. The system shall be passive, containing no moving parts resulting in a more energy efficient solution than comparable forced-air options. The vertical exhaust duct shall address high heat loads per cabinet to enable dense server applications and eliminate data center hot spots. The vertical exhaust duct shall be modular, capable of being added without disrupting existing in-cabinet equipment and cabling to enable a migration path.



technical information

 Dimensions:
 C2VED08l1626*1:
 16.0" up to 26.0"H x 30.5" W x 17.9" D (406.4mm up to 660.4mm x 763.5mm x 454.5mm)

 C2VED08l2638*1:
 26.0" up to 38.0"H x 30.5" W x 17.9" D (660.4mm up to 965.2mm x 763.5mm x 454.5mm)

 C2VED08l3866*1:
 38.0" up to 66.0"H x 30.5" W x 17.9" D

(965.2mm up to 1676.4mm x 763.5mm x 454.5mm)

C2VED07I1626*1: 16.0" up to 26.0"H x 26.1 W x 17.9" D (406.4mm up to 660.4mm x 663.5mm x 454.5mm)

C2VED07I2638*1: 26.0" up to 38.0"H x 26.1 W x 17.9" D (660.4mm up to 965.2mm x 663.5mm x 454.5mm)

C2VED07l3866*1: 38.0" up to 66.0"H x 26.1 W x 17.9" D

(965.2mm up to 1676.4mm x 663.5mm x 454.5mm) C2VED06I1626*1: 16.0" up to 26.0"H x 22.2"W x 17.9"D

(406.4mm up to 660.4mm x 563.5mm x 454.5mm) C2VED06I2638*1: 26.0" up to 38.0"H x 22.2"W x 17.9"D

(660.4mm up to 965.2mm x 563.5mm x 454.5mm) C2VED06l3866*1: 38.0" up to 66.0"H x 22.2"W x 17.9"D

(965.2mm up to 1676.4mm x 563.5mm x 454.5mm)

key features and benefits

Transfers heat load directly Lowers energy costs up to 40% and capital construction expenditures for to return plenum to reduce increased network reliability and lowest cost of ownership the number of CRAH units Prevents hot spots and allows Reduces the need for extra real estate and additional CRAH units for increased installation of high-density server data center cooling cabinets close together in new builds or existing data centers Works with leading server Verified interoperability, minimizes risk of overheating for increased suppliers (HP, IBM, Dell, Sun) via network reliability uniform and proper air flow distribution within servers Contains no moving parts to Eliminates acoustical noise and failure points for increased network reliability passively direct the heated air out of the data center Reduces the need for flow Minimizes local hot spots within the data center and improves balancing in raised floor and CPU/network reliability return plenums Infinitely adjustable within Allows for variable ceiling heights and ease of installation specified range of vertical exhaust system

applications

Net-Contain™ Vertical Exhaust Ducts optimize data center airflow for a highly efficient passive thermal management solution by channeling heat from the cabinet directly to the overhead ceiling return plenum increasing cooling efficiency and significantly lowering operating expenses. This passive exhaust system removes heated air without additional moving parts

and enables increased server densities by preventing hot and cold air mixing and eliminating hot spots. The vertical exhaust system can be utilized during an initial installation or can be added when required as heat densities increase. Cabinets with VED solution must utilize a solid rear door to direct the hot air to the above plenum area.

Net-Contain™ Vertical Exhaust Ducts (VEDs

For 800mm W

Net-Access™ Cabinet, 16" up to 26"H: C2VFD08I1626*1 For 800mm W Net-Access™ Cabinet, 26" up to 38"H: C2VED08I2638*1 For 800mm W Net-Access™ Cabinet, 38" up to 66"H: C2VED08I3866*1 For 700mm W Net-Access™ Cabinet, 16" up to 26"H: C2VED07I1626*1 For 700mm W Net-Access™ Cabinet, 26" up to 38"H: C2VED07I2638*1 For 700mm W Net-Access™ Cabinet, 38" up to 66"H: C2VED07I3866*1 For 600mm W Net-Access™ Cabinet, 16" up to 26"H: C2VED06I1626*1 For 600mm W Net-Access™ Cabinet, 26" up to 38"H: C2VED06I2638*1 For 600mm W Net-Access™ Cabinet, 38" up to 66"H: C2VED06I3866*1

Net-Access™ N-Type Cabinets 800mm x 45 RU x 1200mm

45 RU, front dual hinge door, rear solid split doors, cage nut rails, vertical blanking panels, cable management vertical

exhaust duct ready: N8529*Y

45 RU, front dual hinge door, rear solid split doors, (1) side panel, cage nut rails, vertical blanking panels, cable management vertical exhaust duct ready:

45 RU, front dual hinge door, rear solid split doors, 12-24 tapped rails, vertical blanking panels, cable

blanking panels, cable management vertical exhaust duct ready: N8529*N 45 RU, front dual hinge door, rear solid solit

door, rear solid split doors, (1) side panel, 12-24 tapped rails, vertical blanking panels, cable management vertical exhaust duct ready:

N8521*N

N8521*Y

Net-Access™ S-Type Cabinets

600mm x 42 RU x 1200mm

42 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S6229*V

42 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S6222*V

Net-Contain™ Vertical Exhaust Ducts (VEDs) for Net-Access™ N-Type and S-Type Cabinets

Ceiling Return Plenum Without **VED** Under Floor Plenu

Hot Spots Develop Without VES

With VED

In a traditional raised floor with ceiling returns configuration (hot aisle/cold aisle) hot air can recirculate to the front of the enclosure, heating the top portion of the rack.

Ceiling Return Plenum

Cold Aisle Under Floor Plenum

The Panduit VED optimizes thermal efficiency by moving hot air through vertical ducts directly to the return plenum.

Width Continuous 610 Height [24.0] Adjustment Slots Height (For All Sizes) **Front View Front View** Side View (Expanded) (Collapsed)

Part Number	Height	Width	Depth
C2VED08I3866*1	38.0" up to 66.0" (965.2mm up to 1676.4mm)	30.5" (763.5mm) 26.1" (663.5mm) 22.2" (563.5mm)	17.9" (454.5mm)
C2VED07I3866*1			
C2VED06l3866*1			
C2VED08I2638*1	26.0" up to 38.0" (660.4mm up to 965.2mm)	30.5" (763.5mm) 26.1" (663.5mm) 22.2" (563.5mm)	
C2VED07I2638*1			
C2VED06I2638*1			
C2VED08I1626*1	16.0" up to 26.0" (406.4mm up to 660.4mm)	30.5" (763.5mm) 26.1" (663.5mm) 22.2" (563.5mm)	
C2VED07I1626*1			
C2VED06I1626*1			

Net-Access™ S-Type Cabinets

600mm x 45 RU x 1200mm

45 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust S6529*V ready, front and rear floor seals: 45 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and S6522*V rear floor seals:

700mm x 42 RU 1200mm

42 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S7229*V

42 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S7222*\/

700mm x 45 RU 1200mm

45 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S7529*V

45 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S7522*V

800mm x 42 RU x 1200mm

42 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S8229*V

42 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S8222*V

800mm x 45 RU x 1200mm

45 RU, single hinge perforated front door, single solid rear door, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S8529*V

45 RU, single hinge perforated front door, single solid rear door, (2) side panels, casters, pou brackets, cage nut rails, vertical exhaust ready, front and rear floor seals:

S8522*V

*Indicates optional colors. Replace * with B = Black, or W = White

Dimensions are in inches. (Dimensions in parenthesis are metric).

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