Thermal Inlet Duct for the Cisco[^] Nexus 7004 Switch for Net-Access[™] N-Type Cabinets

specifications

The thermal inlet duct shall be designed to be compatible with the Cisco^ Nexus 7004 switch using Computational Fluid Dynamics (CFD) modeling and verified via operational testing. The inlet duct shall consist of one (2 RU) inlet duct and a side duct to feed cool air from the cold aisle to the switch's side inlet and prevent hot exhaust recirculation. The modular duct shall be capable of being installed in a retro-fit application without disrupting existing in-cabinet equipment and cabling.



technical information

Dimensions:

14.78"H x 20.87"W x 24.25"D (375mm x 530mm x 616mm)

key features and benefits

Passive airflow	No additional moving parts or power required for a more reliable, efficient, economical and environmentally friendly system
Performance	Designed and validated thermal performance by Panduit
Physical separation between inlet and exhaust airflow	Segregates inlet and exhaust airflow preventing hot air recirculation, reducing inlet temperatures up to 17°C (30°F) in containment applications
Inlet duct design	Ensures the cabinet is containment ready for vertical exhaust ducting (VED) and aisle containment
Maximized space utilization	Allows the switch to be deployed in 800mm and 700mm wide Panduit cabinets without sacrificing thermal performance
Energy efficiency	Provides cool air to the switch resulting in lower fan speed, reducing fan power consumption
Day one or two installation	Eliminates the requirement to replace or disturb existing cabinets, equipment and infrastructure decreasing capital expenditures and minimizing risks
Easy access	Allows access to the power supplies and fan modules minimizing network downtime
Integral bonding to cabinet	Cabinets and accessories are single-point bonded, providing a safe and reliable network, while reducing installation costs

applications

Cisco[^] Nexus 7000 series switches are a modular switching system designed to deliver 10 Gigabit Ethernet and beyond. Panduit has developed a comprehensive physical infrastructure solution for the Nexus 7004 switch platform.

When the Cisco[^] Nexus 7004 switch is used as an access layer switch, it could be deployed using a Panduit Pod strategy that employs an End of Row (EoR) or Middle of

^Cisco is a registered trademark of Cisco Technology, Inc.

Row (MoR) physical topology in the Equipment Distribution Area (EDA) of the data center. If deployed as an aggregation or core switch, it could be located in the Main Distribution Area (MDA) of the data center.

By providing a path for cool air to the switch, data center temperature set points can be raised, resulting in higher energy efficiencies and lower operating costs.



Inlet Duct for End of Row (EoR) Switching Applications		
Inlet duct:	DIRBB2007S21W	
Net-Access [™] N-Type Cabinets for Use in Hot Aisle/Cold Aisle Applications*		
800mm W x 42 RU x 1070mm D:	N821*^	
800mm W x 42 RU x 1200mm D:	N822*^	
800mm W x 45 RU x 1070mm D: 800mm W x 45 RU x	N851*^	
1200mm D: 800mm W x 48 RU x	N852*^	
1070mm D: 800mm W x 48 RU x	N881*^	
1200mm D:	N882*^	
Net-Access™ N-Type C	abinet Accessories	
Net-Access [™] N-Type Vertical Blanking Papels with pass-through holes		

Panels with pass-through holes for cabinets 42 RU through 48 RU: NVBP

Net-Access[™] N-Type Cabinets for Use with Vertical Exhaust Ducting

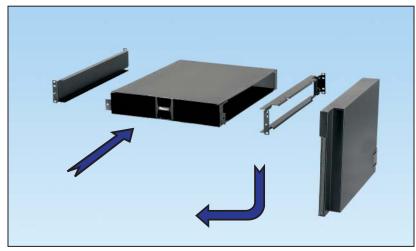
800mm x 45 RU x 1200mm			
45 RU, front dual hing			
solid split doors, cag			
vertical blanking pan			
management vertical			
duct ready:	N8529^Y		
45 RU, front dual hing			
solid split doors, (1)			
nut rails, vertical blai			
cable management v			
duct ready:	N8521^Y		
45 RU, front dual hing			
solid split doors, 12-2			
vertical blanking pan			
management vertical			
duct ready:	N8229^N		
45 RU, front dual hing	ge door, rear		
solid split doors, (1)	side panel, 12-24		
tapped rails, vertical			
cable management v			
duct ready:	N8221^N		
Mantha al Escharuat Dur	tin a fo a 800 m m 14		

Vertical Exhaust Ducting Net-Access [™] N-Type Cab	for 800mm W inets	
16" up to 26"H:	C2VED08I1626^1	
26" up to 38"H:	C2VED08I2638^1	
38" up to 66"H:	C2VED08I3866^1	
Net-Access [™] N-Type Cab in Cold Aisle Containme	inets for Use nt Applications	
800mm W x 42 RU x 1070mm D:	N821*^U	
800mm W x 42 RU x 1200mm D:	N822*^M	
800mm W x 45 RU x 1070mm D:	N851*^U	
800mm W x 45 RU x 1200mm D:	N852*^U	
Net-Contain [™] Sliding Doo Cold Aisle Containment	or Low Profile System	
Integral low profile ceiling structures Net-Access [™] 800mm Cabinets		
4' (1200mm) aisle width:	C2CAC08F04IR^1	
6' (1800mm) aisle width:	C2CAC08F06IR^1	
End of row dual sliding doors		
6" (1800mm) aisle width:	C2CACT5F06SD^1	
4" (1200mm) aisle width:	C2CACT5F04SD^1	
Wall panel (800mm):	C2CAC08F08WP^1	
*Indicates Net-Access [™] N-Type Cabinet Standard Side Panel (screw on). Replace * with: 1 = 1 side panel, 2 = 2 side panels, or 9 = no side panels.		

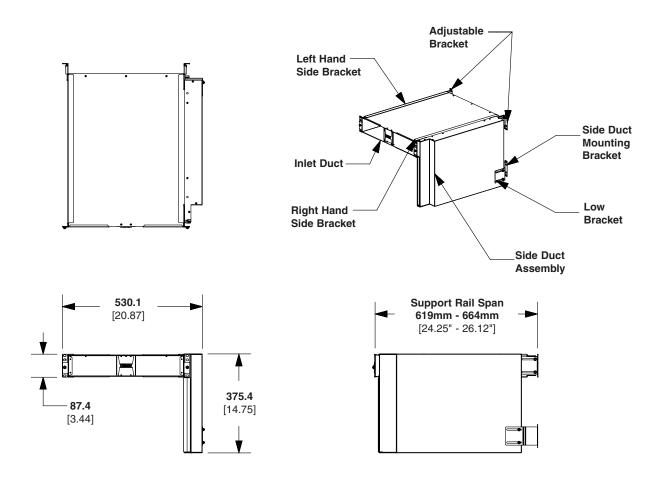
9 = no side paneis. ^Indicates optional colors.

Replace ^ with: B = Black or W = White

www.panduit.com



Inlet Duct Exploded View Showing Inlet Airflow Path



Dimensions are in metric. [Dimensions in brackets are inches].

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA Markham, Ontario cs-cdn@panduit.com Phone: 800.777.3300 PANDUIT EUROPE LTD. London, UK cs-emea@panduit.com Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD. Republic of Singapore cs-ap@panduit.com Phone: 65.6305.7575 PANDUIT JAPAN I Tokyo, Japan (cs-japan@panduit.com (Phone: 81.3.6863.6000 I

PANDUIT LATIN AMERICA Guadalajara, Mexico cs-la@panduit.com Phone: 52.33.3777.6000 PANDUIT AUSTRALIA PTY. LTD. Victoria, Australia cs-aus@panduit.com Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty



For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300 ©2013 Panduit Corp. ALL RIGHTS RESERVED. RKSP127--WW-ENG 4/2013