

# Thermal Inlet Ducts for Cisco Catalyst<sup>^</sup> 6807-XL Switch for Net-Access<sup>™</sup> N-Type Cabinets

## Specifications

The thermal inlet duct shall be designed to be compatible with the Cisco Catalyst<sup>^</sup> 6807-XL switch using Computational Fluid Dynamics (CFD) modeling and verified via operational testing. This is a right-to-left airflow switch. The inlet duct shall occupy 15 RU; consist of one 3 RU (top) and one 2 RU (bottom) inlet ducts, 10 RU required for the Cisco Catalyst<sup>^</sup> 6807-XL switch and a side duct to feed cool air from the cold aisle to the switch's side inlet. 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:

**DIRLC3210S17W (3 RU Top, 2 RU bottom and side duct):**  
23.27"D x 26.26"H x 22.11"W (591mm D x 777mm H x 561.6mm W)

## Key Features and Benefits

**Passive airflow:** No additional moving parts or power required for a more reliable, efficient, economical and environmentally friendly system

**Certified 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)

**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 wide Panduit<sup>®</sup> Net-Access<sup>™</sup> (N-Type) Cabinets (with Vertical Blanking Panels) without sacrificing thermal performance

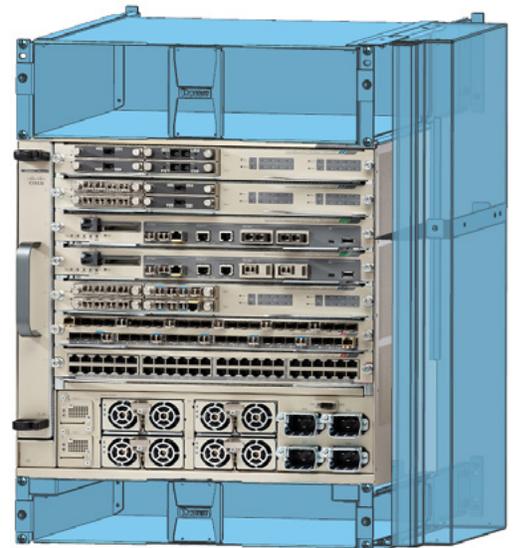
**Energy efficiency:** Provides cool air to the switch resulting in lower fan speed reducing fan power consumption and improving reliability

**Day one or two installation:** Eliminates the requirement to replace or disturb existing cabinets, equipment and infrastructure for lower capital expenditures and minimized risk

**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

## Inlet Duct for Cisco Catalyst 6807-XL Switch Applications



## Applications

The Cisco Catalyst<sup>^</sup> 6807-XL Modular Switch is built on the rich DNA of the Cisco Catalyst 6500 Series Switch and provides high levels of scalability and performance.

Cisco Catalyst<sup>^</sup> 6807-XL Modular Switch is optimized for high-density 10 Gigabit Ethernet, 40 Gigabit Ethernet, and 100 Gigabit Ethernet. Panduit has developed a comprehensive physical infrastructure solution for the Catalyst 6807-XL Modular Switch.

When the Catalyst<sup>^</sup> 6807-XL Modular 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 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.

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