

Opengate Product Brochure

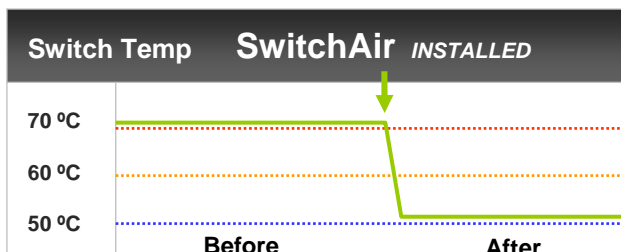
SwitchAir 2U Network Switch Cooling®

Effective cool air delivery for multiple rear rack mounted 1U switches
 Universal for rear intake or side intake switch types

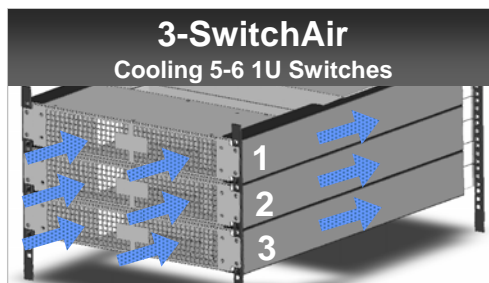
PATENT PENDING

Placing **network switch ports facing the rear of rack** where sever port density resides is very convenient and simplifies network cabling. Due to high switch port density, intake air is typically at the sides of the switch chassis with heat exhaust out the rear or other side of the switch.

SwitchAir 2U ensures rear rack mounted switches are able to receive the required cool air from outside the rack. **SwitchAir delivers air to the switch** via the SwitchAir Channels. SwitchAir 2U works with switches having side intake - rear exhaust, side intake - side exhaust and rear intake - front exhaust. You can even stack switches with varying airflow patterns together.



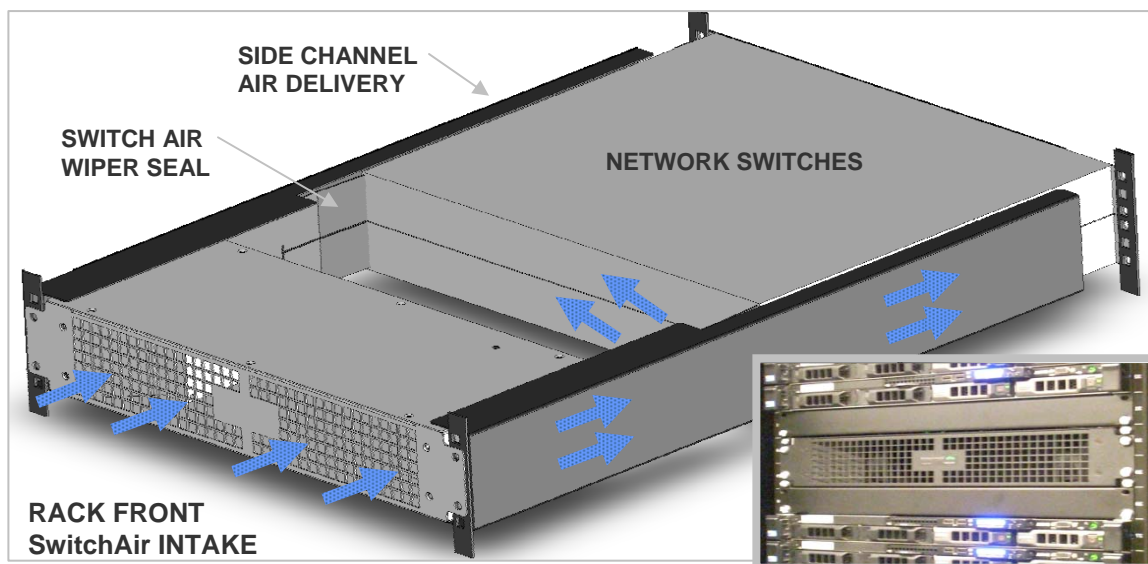
Actual Cisco 4948 before and after temp measurements



Stack SwitchAir in consecutive u-spaces. Up to 6 network switches cooled in this configuration

SwitchAir 2U

System Diagram. A Single SwitchAir Cools 1-2 Switches with side or rear air intake vents



WHY Choose Opengate?

Stabilize your switch intake air temperature to within a few degrees of the rack front intake air temperature

Installs in minutes and works with most side and rear intake network switches

SwitchAir 2U can be installed while network switch is operational

Single input cord runs on any voltage and continually delivers required air

Opengate systems allow rapid return on investment—typically less than 3 months

SA2 Specification

Item Number
SA2-002B

Rack Mounting
26-5/8" to 29-5/8 Rail Depth

Input Power / Indicator
90-264 VAC 50/60 Hz
15 watts
LED Power Indicator

Input Connector
C14 Input

Input Cord
Order separately

Airflow
48 CFM

Safety / Approvals
UL, cUL, CE, FCC

Warranty
2 Years



"SwitchAir installed easily and considerably lowered our high switch temperatures. We deliberately installed everything else first to test out the retrofit-in-place feature. Temperatures were reduced from 51C to 43C!"



Customers choose Opengate systems to automate data center cooling and maximize energy efficiency!

Ultra-Efficient Network Switch Cooling

SwitchAir Installation

Re-Position Switch Bracket

Reposition as shown for network switches with rear air intake only. Leave in position for side air intake switches.

Install SwitchAir Channel

Place cage nuts in all four channel mounting holes. Attach Channel to inside of front rail using screws at top and bottom cage nuts positions. (rack rail cage nuts and screws not included)

Install SwitchAir Wipers

Attach SwitchAir Wipers to the sides of the SwitchAir Chassis using the screws provided. Do not install Wipers for network switches with rear air intake.

Install SwitchAir Chassis

Connect to power before attaching SwitchAir Chassis to rack front. Slide the SwitchAir Chassis into the SwitchAir Channels from the front of the rack. Attach the SwitchAir Chassis using four screws (not included).

Deploy More IT with CONFIDENCE

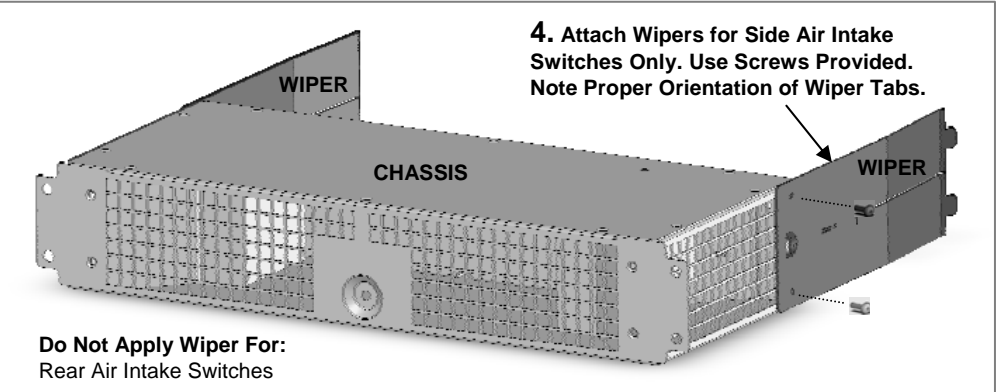
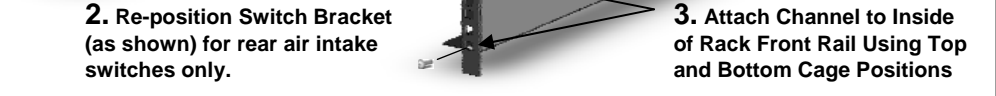
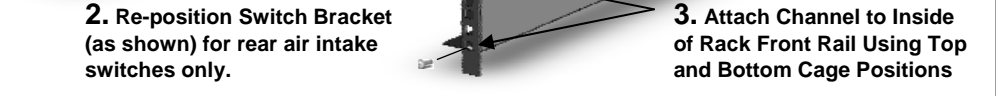
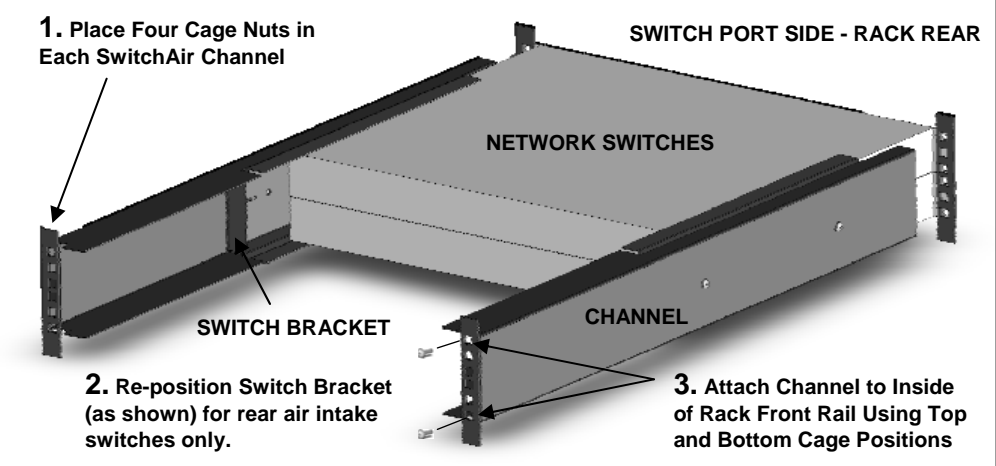
Unity Cooling®
Automated Cooling Circuit Control & Management

SiteView™
Data Center Management System

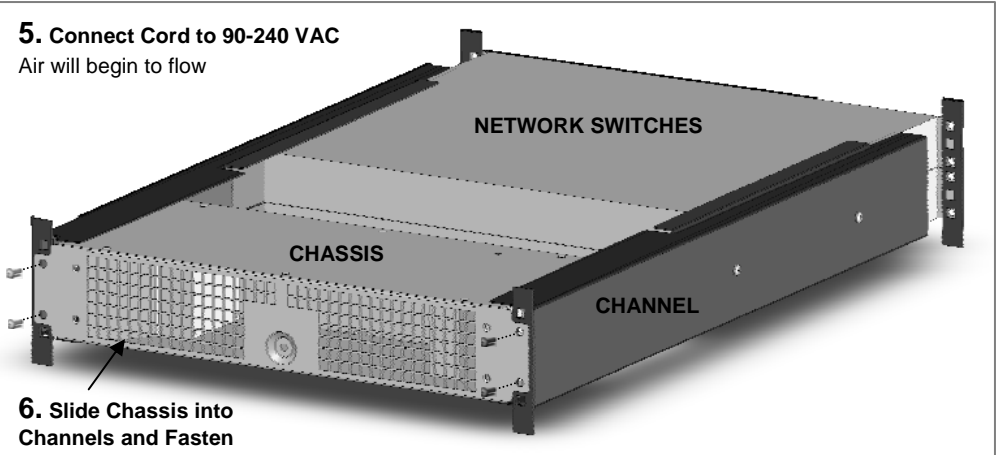
IT-Row™ Cooling
Automated Row Heat Containment

SwitchAir™
Network Switch Cooling

Installing SwitchAir 2U – with one to two network switch in operation



Do Not Apply Wiper For:
Rear Air Intake Switches



6. Slide Chassis into Channels and Fasten

"We're putting Opengate SwitchAir on all our switches." – Mitch Martin, Oracle Chief Engineer

