



SwitchAir™ 2U Network Switch Cooling

Take the Intelligent Path™ ...

Oracle, National Geo-Space Intelligence Agency, Husky Energy, Army Corp of Engineers, Ag Canada, General Dynamics, Dell and CGI Canada are a few companies that have selected Opengate systems to automate cooling and maximize energy efficiency. ASHRAE recently increased the acceptable intake temperature to 80.6 °F (27 °C) specifically for improved data center cooling efficiency and the industry is following by increasing the supply air temperature delivered to the IT equipment space. With raised supply air temperature chillers are operational less of the time and Opengate cooling flow control and automation for Data Centers and IT racks becomes necessary.



Take the Intelligent Path™ ...

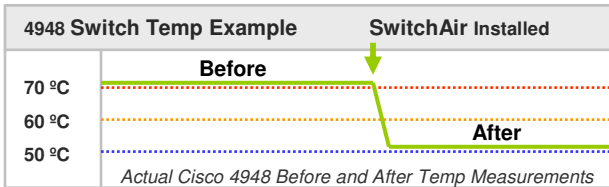
WWW.OPENGATEDATA.COM

866 . 934 . 9518

SiteX EC SwitchAir™ 2U Network Switch Cooling Solution PATENT PENDING

EFFECTIVE SWITCH COOL AIR DELIVERY FOR UP TO TWO REAR RACK MOUNTED 1U SWITCHES WHEN STACKED IN CONSECUTIVE U SPACES. UNIVERSAL FOR REAR OR SIDE INTAKE SWITCH TYPES.

SwitchAir™ 2U Specification	
Item Number	SA2-001
Rack Mounting	26-5/8" to 29-5/8 Rail Depth Range
Input Power	90-264 VAC 50/60 Hz 15 watts, C14 Input
Input Cord	Order separately
Safety / Approvals	UL/cUL 60950, FCC
Warranty	2 Years



Switch port density makes it very convenient to place network switches facing the rear of rack where sever port density resides to simplify 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 network switch chassis.

SwitchAir 2U ensures up to two rear 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.

SwitchAir 2U

SWITCH AIR WIPER SEAL

SIDE CHANNEL AIR DELIVERY

ONE SWITCHAIR COOLS ONE OR TWO NETWORK SWITCHES

RACK FRONT SWITCH AIR INTAKE

SwitchAir 2U can be installed while network switch is operational

MULTIPLE SWITCH AIR SYSTEMS COOLING FIVE OR SIX 1U SWITCHES

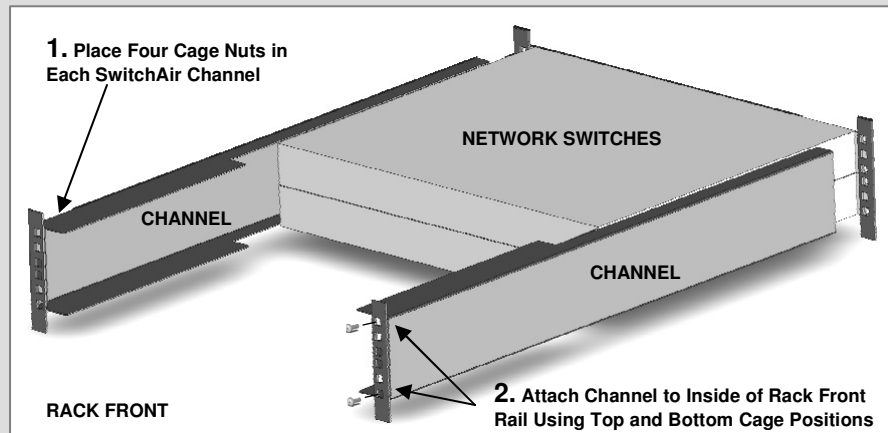
SiteX EC SwitchAir™ 2U Network Switch Cooling Solution PATENT PENDING

EFFECTIVE SWITCH COOL AIR DELIVERY FOR UP TO TWO REAR RACK MOUNTED 1U SWITCHES WHEN STACKED IN CONSECUTIVE U SPACES. UNIVERSAL FOR REAR OR SIDE INTAKE SWITCH TYPES.

SwitchAir 2U Install

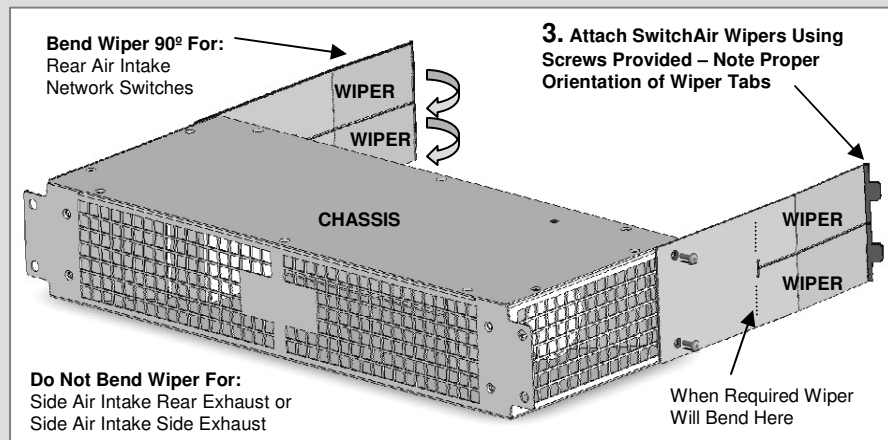
Install SwitchAir Channel

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



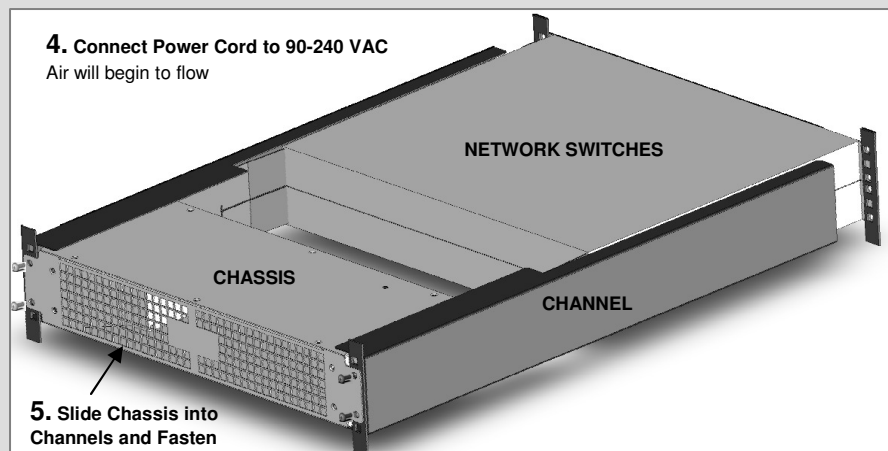
Install SwitchAir Wipers

Attach each SwitchAir Wiper to the sides of the SwitchAir Chassis using the two screws provided. For network switches with rear air intake and front heat exhaust, bend SwitchAir Wipers approximately 90° allowing cool air to release to rear of network switch.



Install SwitchAir Chassis

Insert power cord into rack front and connect to power before attaching SwitchAir Chassis. 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 and *without* HEAT issues...

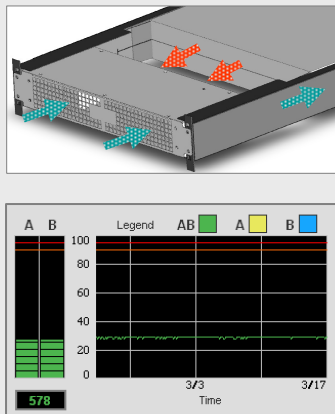
... In Data Centers

SiteX Containment Cooling®
Automated Heat Containment
Unity Cooling®
Cooling Control & Monitoring



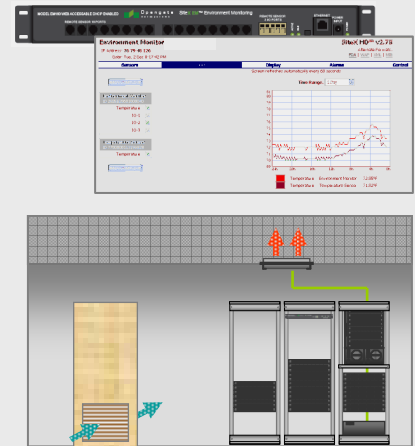
... In Racks

SwitchAir™
Network Switch Cooling
SiteX EP™ & SiteX EM™
Power & Environment



... In Small Spaces

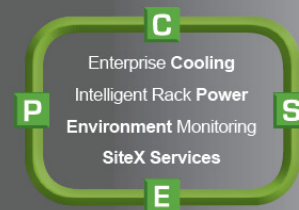
SiteX Small Space™ Cooling
Automated IT Space Cooling
SiteX EM™
Environment Monitoring



Tested and Accepted by; Oracle, EMC, HP, Dell, General Dynamics, Army Corp of Engineers, CGI, Ag Canada and others...

INTEGRATE ENTERPRISE COOLING, POWER AND ENVIRONMENT MONITORING SYSTEMS

Opengate is a key contributor in first generation heat containment technology and creating stable cooling environments and as seen in ASHRAE Journal Article – Designing Better Data Centers, December 2007 and ASHRAE High Density Data Centers and Case Studies Book, January 2008. See page 16-17 for more information. Opengate's next generation technology is fully redundant, dynamically scales to the IT load and reports cooling and power load data real-time.



SwitchAir available from the following solution providers

Take the Intelligent Path™...
WWW.OPENGATEDATA.COM

