



# Vertiv™ Geist™ SwitchAir®

Airflow Management Solution  
for Network Equipment



## Overview

### Product Types

#### Passive SwitchAir

Passive SwitchAirs provide a dedicated path for cool air to flow to the air intake of the network switch.

#### Active SwitchAir

Active SwitchAirs utilize internal fans to pull cool air from the front of the cabinet to the air intake of the network switch.

### Product Features

#### Targeted Airflow

- Provides a path for cool air to flow to the intake of network switch equipment.

#### Airflow Management

- Creates a barrier to effectively prevent hot exhaust air from entering switch intakes.

#### Fast Installation

- Easily install the SwitchAir into the front of the cabinet in the same U space as the network switch equipment.

#### Easy Selection

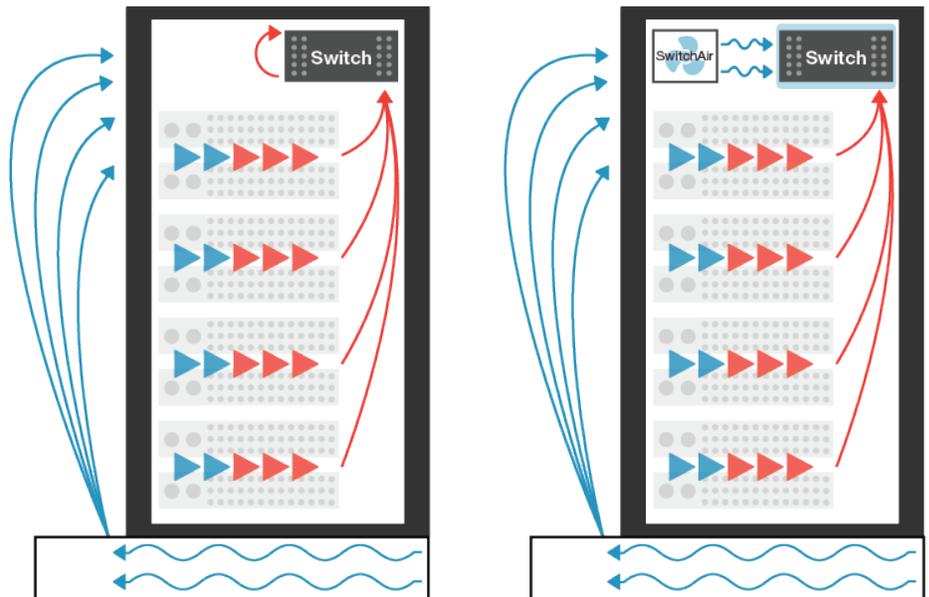
- Utilize the SwitchAir Finder to identify the SwitchAir with the airflow pattern needed for installed network equipment.

## Say Goodbye to Overheated Switches

### SwitchAir® Cooling

Network switches, load balancers and routers typically sit at the top and back portion of the rack. In a traditional Hot Aisle / Cold Aisle data center design, this placement makes it difficult for cold air to flow from the front of the rack to the air intakes of network switch equipment increasing chances of failure over time. If network equipment begins to overheat, blanking panels are commonly removed from the front of the rack in an effort to provide cool air to the device. This ultimately results in recirculation of hot air into the cold aisle potentially increasing the intake temperature of other devices in the rack.

The SwitchAir replaces the blanking panel and provides a path for cool air to flow from the front of the rack to the air intakes regardless of where the equipment is mounted.



*Network switches mounted at the top and rear of the rack are susceptible to heated air from the servers. This hot air is recirculated, putting stress on the device.*

*SwitchAir products direct cool air to the network switches, significantly lowering operating temperatures.*



## SwitchAir® for Every Switch

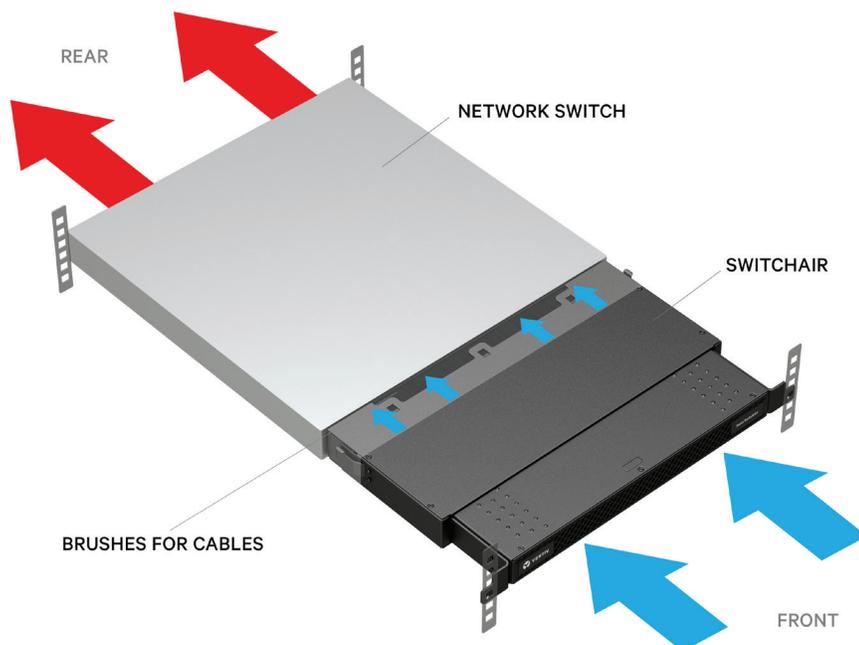
| MODEL #       | CATEGORY | SWITCH AIRFLOW PATH         | PROFILE | AVAILABILITY   | AIRFLOW VOLUME |
|---------------|----------|-----------------------------|---------|----------------|----------------|
| SA1-01001NB   | Passive  | Dual Side Intake            | 1U      | Built-to-Order | N/A            |
| SA1-01001SS   | Passive  | Single Side Intake          | 1U      | Built-to-Order | N/A            |
| SA1-01002     | Passive  | Rear intake - Front Exhaust | 1U      | Stocked        | N/A            |
| SA1-01002L    | Passive  | Rear intake - Front Exhaust | 1U      | Stocked        | N/A            |
| SA1-01002S    | Passive  | Rear intake - Front Exhaust | 1U      | Stocked        | N/A            |
| SA1-01002XLNB | Passive  | Rear intake - Front Exhaust | 1U      | Stocked        | N/A            |
| SA1-02003     | Passive  | Rear intake - Front Exhaust | 2U      | Built-to-Order | N/A            |
| SA1-02003XS   | Passive  | Rear Intake                 | 2U      | Built-to-Order | N/A            |
| SA1-02005     | Passive  | Side Intake                 | 2U      | Built-to-Order | N/A            |
| SA1-03001     | Passive  | Side Intake                 | 3U      | Built-to-Order | N/A            |
| SA1-09001     | Passive  | Side Exhaust Deflector      | 9U      | Built-to-Order | N/A            |
| SA2-002       | Active   | Side Intake or Rear Intake  | 2U      | Built-to-Order | 47 CFM         |
| SA2-003       | Active   | Single Side Intake          | 2U      | Built-to-Order | 47 CFM         |
| SA2-004       | Active   | Front Intake                | 2U      | Built-to-Order | 94 CFM         |
| SA2-006       | Active   | Side Intake Core Switch     | 2U      | Built-to-Order | 188 CFM        |

### Which SwitchAir is right for your switch?

The SwitchAir provides cooling solutions for a wide range of switches and airflow configurations. To determine the SwitchAir that is right for your device, visit the SwitchAir Finder at [www.Vertiv.com](http://www.Vertiv.com).

If you are unable to find your specific switch model, contact a local Vertiv sales representative for assistance.

### How it Works



## Availability

### Stocked

The most popular SwitchAir models are stocked by a variety of distribution partners for immediate availability.

### Built-to-Order

If your switch airflow path requires a Built-to-Order unit, please contact your preferred distribution partner for purchase.



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