



Brochure

# Vertiv™ Edge Cooling

Cooling portfolio for mission-critical server rooms  
and small to medium IT environments



# Protect your critical operations with Vertiv's reliable Edge cooling solutions purpose built for IT equipment

## Vertiv™ provides tailored cooling solutions for rooms of all sizes, enabling:

- Continuous reliability for servers.
- Energy efficiency designed for smaller spaces.
- Scalability and flexibility for evolving IT needs.
- Peace of mind with easy installation, monitoring, and maintenance.

## Key Benefits



### Designed for IT equipment

Specifically engineered for IT loads, unlike comfort cooling.



### Integrated unit network

Smart controls with teamworking capability and visibility and alarms.



### Reduced operating costs

High efficiency with low total cost of ownership.



### Low GWP refrigerant (R-32)

Utilizes low GWP refrigerant compliant with environmental regulations.



### Flexible installation methods

Offerings from 3.5kW to 40kW, multiple configurations including ducted and grille-based airflow and wide heat rejection operating ranges.



Performance and capabilities are certified by AHRI, providing independent assurance of product performance and efficiency.



## Why comfort cooling puts your IT equipment at risk

Most small IT spaces and server rooms still rely on comfort cooling systems. These units are designed for people, not technology. Servers run 24/7 and as heat loads rise, these systems struggle to keep up, exposing critical infrastructure to unnecessary risk.



### Insufficient airflow for servers

Comfort systems deliver far less airflow than IT equipment requires, leading to hot air recirculation, rising temperatures, and hot spots that threaten uptime.



### Inefficient cooling capacity

Much of a comfort system's cooling targets humidity control instead of actual IT heat load, so only a portion of its capacity goes toward keeping servers cool—forcing oversized units and wasted energy.



### Not designed for 24/7 operation

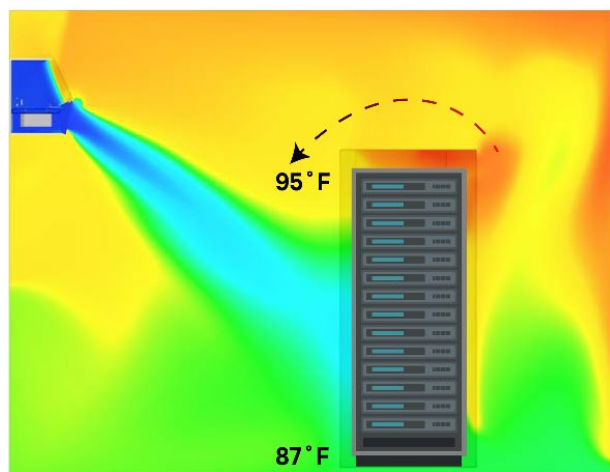
These systems cycle, trip, or wear out faster under continuous operation. Seasonal design assumptions don't match the nonstop demands of IT rooms, increasing the likelihood of failure.



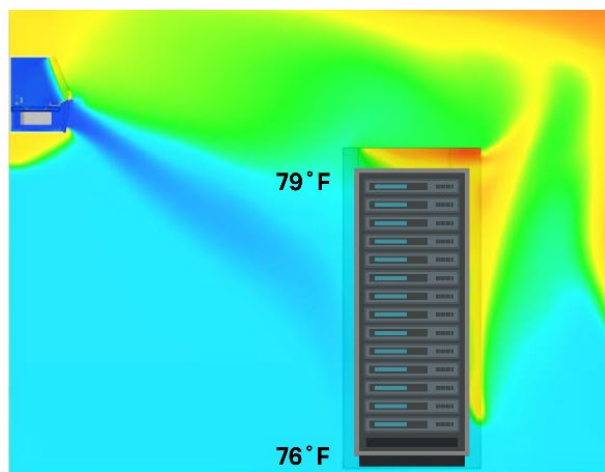
### Lack of redundancy and intelligence

Comfort systems typically lack the monitoring, alerts, and failover capabilities needed to maintain reliable thermal conditions for mission-critical equipment.

Comfort cooling (100cfm/kW)



Dedicated IT cooling (150cfm/kW)



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**Vertiv's solutions are designed to address these challenges. Learn more about comfort cooling risks here: [Server reliability at risk: How comfort cooling compromises uptime](#)**

## Explore the solutions:

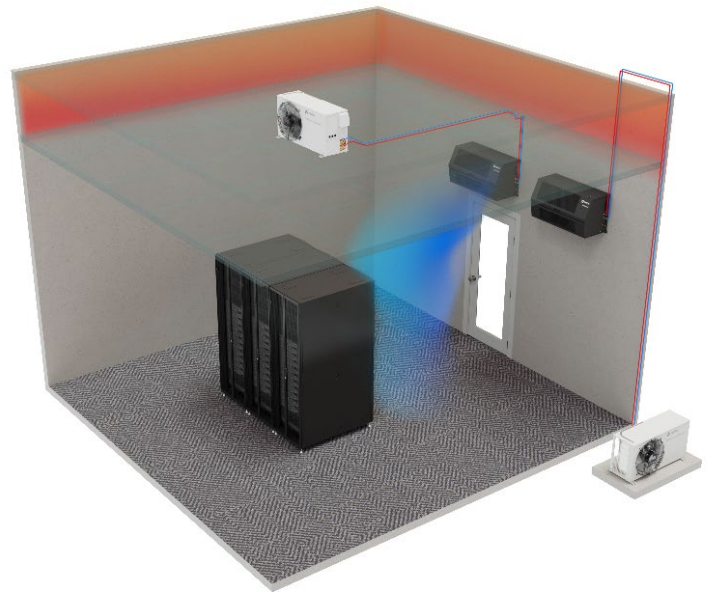
### Vertiv™ CoolPhase Wall

#### Wall-mounted cooling solution

The Vertiv™ CoolPhase Wall delivers dedicated IT cooling in a space-saving, wall-mounted design ideal for server rooms, network closets, and edge locations. With simplified installation and easy front access, it supports reliable thermal performance without occupying valuable floor space.

#### Features

- **3.5–11 kW wall-mounted design** with zero footprint and no ductwork required.
- **Plenum-approved heat rejection** options for flexible installation.
- **Integrated Vertiv controls** with remote monitoring (SNMP, HTTP, BACnet, Modbus).
- **Refrigerant leak detection and mitigation system** for added protection.
- **Teamwork connection** between multiple units for active standby lead/lag control.
- **Designed to replace comfort cooling** in small IT spaces.



[Visit the CoolPhase Wall webpage for more information »](#)



## Explore the solutions:

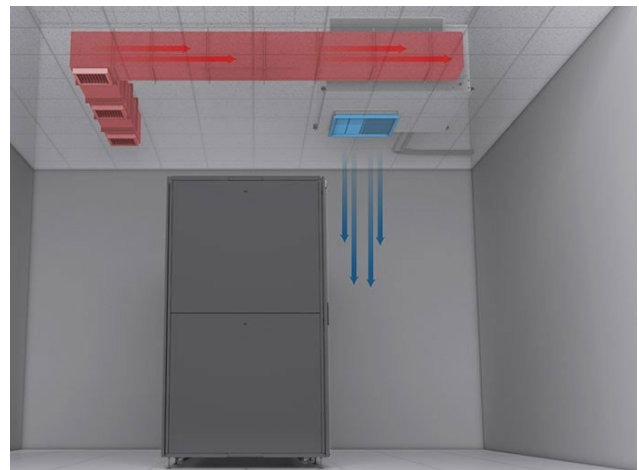
### Vertiv™ CoolPhase Ceiling

#### Ceiling-mounted cooling solution

The Vertiv™ CoolPhase Ceiling delivers precision cooling from above, enabling flexible IT room layouts by freeing floor space. Designed to support IT environments, it offers scalable capacity and multiple system configurations to adapt to varying site conditions. Integrated controls and advanced connectivity enable seamless monitoring and management, while service-friendly access simplifies maintenance and helps minimize downtime.

#### Features

- **3.5–28 kW ceiling-mounted design** that frees floor and wall space for flexible room layouts.
- **Multiple configurations available**, including air-cooled and water/glycol-cooled options.
- **Humidification, reheat, and smoke detection** available for specialized environments.
- **Single-panel service access** for faster maintenance and reduced downtime.
- **Advanced connectivity via Vertiv iCOM™** (SNMP, HTTP, BACnet, Modbus).
- **AHRI Certified** performance and efficiency.



[Visit the CoolPhase Ceiling webpage for more information »](#)

## Explore the solutions:

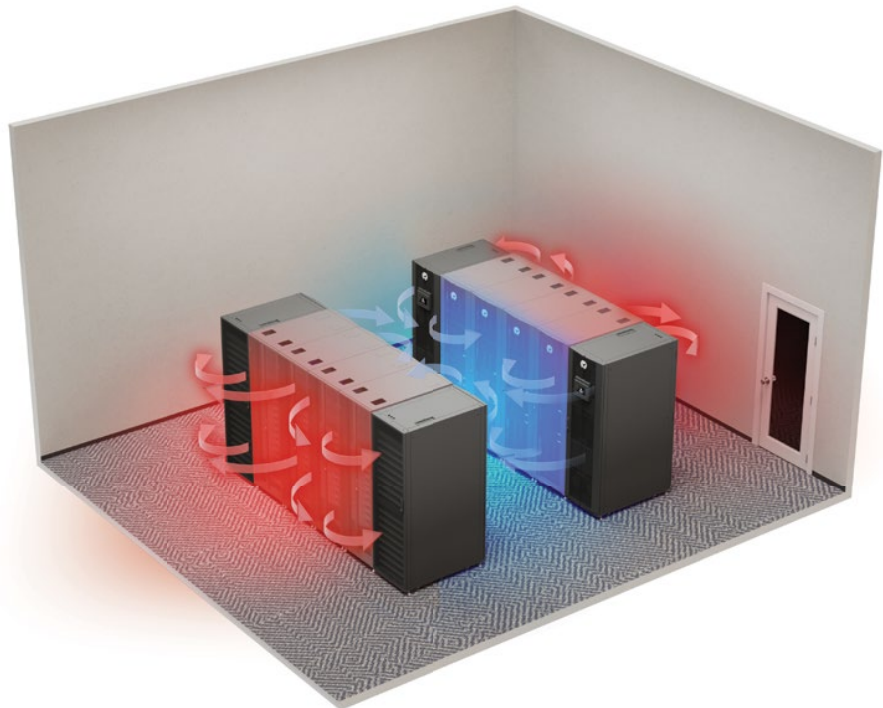
### Vertiv™ CoolPhase Row

Row-based cooling solution

The Vertiv™ CoolPhase Row delivers targeted, close-coupled cooling directly within the rack row for high-density environments. By eliminating long airflow paths, it improves efficiency and temperature stability while maximizing space within small or medium IT rooms. Ideal for growing heat loads without major room redesigns.

#### Features

- **Integrated row-based design** places cooling at the heat source for stronger temperature control
- **Available in 30 kW and 40 kW capacities** for higher-density deployments
- **Independent variable-speed EC fans** enable precise airflow management
- **Hydrophilic coated coil** improves drainage and reduces moisture carryover
- **Advanced connectivity** via Vertiv iCOM™ (SNMP, HTTP, BACnet, Modbus)
- **AHRI Certified** performance and efficiency.



[Visit the CoolPhase Row webpage for more information »](#)



# The Vertiv difference

Your IT space demands more than just cooling. Vertiv delivers an integrated ecosystem of power, cooling, and containment all backed by our global services designed to support reliable and efficient operation of your critical environments.

## Get your end-to-end solution with Vertiv.



### Containment

**Robust, space-efficient foundations for IT equipment.**

- Secure, modular rack solutions
- Integrated cable management
- Optional containment to reduce recirculation



### Power

**Reliable backup power for essential IT equipment.**

- High power quality protection
- Scalable runtime options
- Compact, rack-ready designs



### Cooling

**Cooling solutions engineered to protect critical equipment.**

- Purpose-built for IT heat loads
- Room and row-based configurations
- Intelligent controls for optimized performance



### Monitoring & Services

**Proactive support and real-time visibility to maintain continuous operation.**

- Remote monitoring and intelligent alerts
- System health and performance insights
- Access to certified Vertiv technicians



Vertiv™ SmartRow

