Vertiv™ CoolPhase Row

Thermal management solution for high-density data center applications

Vertiv™ CoolPhase Row is a high-efficiency, row-based cooling solution designed to meet the demanding thermal management needs of modern high-density data centers.

Precision IT cooling

Engineered for high-density environments, Vertiv CoolPhase Row is seamlessly integrated within the row of data center racks to optimize space utilization. It offers advanced temperature control 24/7/365, using inverter-driven compressors and variable speed fans. Together, they adjust cooling output to match dynamic heat loads, boosting energy efficiency and reducing operational costs. The latest design incorporates a refreshed look and standardized models, ensuring compatibility with global data center standards.

With features like dual power supply for enhanced reliability, remote monitoring for real-time system visibility, and rapid deployment capabilities with regional stock availability, Vertiv™ CoolPhase Row addresses critical challenges faced by industries such as healthcare, finance, government, and colocation. Additionally, the unit uses low GWP R-32 refrigerant, supporting sustainability goals without compromising performance.

Benefits

- **Capacity Modulation** of 20-100% matching real-time load, saving energy
- **Maximized uptime** with dual power supply and automatic transfer which supports continuous operation.
- **Intelligent Vertiv controls** & remote monitoring for setting and viewing system status.
- **Teamwork connection** between multiple units for active standby lead/lag control.
- **Rapid Deployment** pre-stocked in region for shipment.

Features

- **Wider installation base** with pipe run up to 390 ft.
- **Higher cooling capacity** with offerings up to 40kW.
- **Wide range of working environments** supported with outdoor heat rejection capability from -31°F to 126°F.
- **Low GWP Refrigerant** (R-32) reduces environmental impact.

Indoor unit	CRD30	CRD40
Nominal Cooling Capacity	30 kW 102,000 BTUH	40 kW 136,000 BTUH
Max Airflow	4297 CFM 7300 m3/h	5728 CFM 9731 m3/h
Power Supply	460V/3ph/60Hz, 65kAIC 230V/3ph/60Hz, 65kAIC (optional dual power feed)	460V/3ph/60Hz, 65kAIC 230V/3ph/60Hz, 65kAIC (optional dual power feed)
Refrigerant	R-32	R-32
Controls	SNMP, Modbus, Liebert® iCOM™	SNMP, Modbus, Liebert® iCOM™
Fans	EC	EC
Compressor	Inverter	Inverter
Dimensions (H X D X W)	43.3 in x 47.2 in x 11.8 in (1100 mm x 1200 mm x 300mm)	43.3 in x 47.2 in x 23.6 in (1100 mm x 1200 mm x 600mm)

Outdoor condensing unit		
Heat Rejection	Air Cooled (OHE)	Air Cooled (OHE)
Outdoor Operating Temperature	-31° F to 126° F (-35° C to 52° C)	-31° F to 126° F (-35° C to 52° C)