# 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<br>102,000 BTUH | 40 kW<br>136,000 BTUH |
| Max airflow | 3900 CFM<br>6626 m3/h | 5700 CFM<br>9684 m3/h |
| Power supply | 460V/3ph/60Hz, 65kAIC<br>230V/3ph/60Hz, 65kAIC<br>(optional dual power feed) | 460V/3ph/60Hz, 65kAIC<br>230V/3ph/60Hz, 65kAIC<br>(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<br>(1100 mm x 1200 mm x 300mm) | 43.3 in x 47.2 in x 23.6 in<br>(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) |

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