Vertiv™ Liebert® CRV Row-Based Cooling

Direct Expansion (DX) Cooling Unit up to 22 kW or from 13-22 kW
Chilled Water (CW) Cooling Unit up to 33 kW

VERTIV.

The Vertiv™ Liebert® CRV Combines the Best Footprint Cooling Capacity with the Highest Efficiency

- High Efficiency at Full and Partial Load

- Designed to provide the Highest Availability

- Industry's Most Advanced Control and Performance Optimization

- Comprehensive Row-Based Cooling

- Backed by the Industry's Best Service and Support

High Efficiency and Best Footprint Cooling Capacity

High Efficiency at Full and Partial Load

- Moving cooling closer to the source

- Field-adjustable air baffles - directing air where needed

- Full airflow Cooling capacity modulation to match the server load and to save energy via:

Direct expansion version	Chilled water version
• DC Inverter Scroll Compressor	• Field Adjustable 2way / 3way valve
• Electronic Expansion Valve	• 0-10V continuously controlled actuators
• Variable Speed EC Fans	• Variable Speed EC Fans

Designed to Deliver the Highest Availability Cooling

- Real-time environmental control through rack sensors

- Automatic performance optimization with Vertiv™ Control and teamwork modes

- Alerts users in advance of potential issues via user friendly display or remote monitoring over Modbus, or SNMP protocols

- Stand by unit is automatically activated in case any of the duty units has failed

Industry's Most Advanced Control & Performance Optimization

- Precise temperature and humidity control

- Six different control modes for greater flexibility

- Monitors up to 10 racks via rack temperature sensors to ensure the correct amount of cold air is provided

13 - 22 kW Vertiv™ Liebert® CRV

Comprehensive Row-Based Solution

- Humidifier and electric reheat for precise temperature and humidity control

- High filtration grade G4 filter with clogged filter switch

- Condensate pump

- Dual Power Supply for Chilled Water version

- Advanced monitoring features through Monitoring Cards

Technical Specifications

Technical Data	CR012	CR025	CR030
Net Sensible Coolign Capacity*	13 kW	22 kW	33kW
Version	Air Cooled DX	Air Cooled DX	Chilled Water
Input Voltage	400V, 3phase, 50Hz	400V, 3phase, 50Hz	230V, 1phase, 50Hz
Humidifier	No	Yes	Yes
Refrigerant	R410A	R410A	Chilled Water
Compressor	DC Inverter, Rotary	DC Inverter, Scroll	—
CW Valve	—	—	Field Adjustable 3way/2way, with 0-10V actuator
Controls	Vertiv™ iCOM™ Control with Graphical Display and monitoring of up to 10 racks		Vertiv™ iCOM™ Control with Graphical Display and monitoring of up to 6 racks
Communications	Modbus, SNMP, Web monitoring, E-mail notifications about alarms		

* Return air temperature 37°C, 24% Relative Humidity, 35°C Outdoor Temperature for CR012 and CR025
Return air temperature 37°C, 24% Relative Humidity, 10/15°C chilled water temperatures for CR030

Dimensions

	CR012	CR025	CR030
Height	2000/2200* mm	2000/2200* mm	2000/2200* mm
Width	300 mm	300 mm	300 mm
Depth	1100/1200* mm	1100/1200* mm	1100/1200* mm

* with field installed frame extensions

Suitable Condenser

	CR012	CR025	CR030
Up to 35°C Ambient Temperature	HCR33	HCR33	—
Up to 46°C Ambient Temperature	HCR43	HCR51	—

Backed by the Industry's Leading Service and Support

- Fast and easy installation with Leveling Feet

- Top and bottom piping and electrical connections as standard

- All components easily accessible from the front / back for simplified maintenance and service

- Service available through factory trained technicians

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