

Vertiv™ Liebert® CRV

Row-Based Cooling

Direct Expansion (DX) Cooling Unit up to 22 kW
Chilled Water (CW) Cooling Unit up to 33 kW



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**



11 kW Vertiv™ Liebert® CRV

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

- DC Inverter Scroll Compressor
- Electronic Expansion Valve
- Variable Speed EC Fans

Chilled water version

- Field Adjustable 2way / 3way valve
- 0-10V continuously controlled actuators
- 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



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
- Advanced monitoring features through Monitoring Cards

Technical Specifications

Technical Data	CRD102	CR025	CR030
Net Sensible Coolign Capacity*	11kW	22 kW	33kW
Version	Air Cooled DX	Air Cooled DX	Chilled Water
Input Voltage	230V, 1phase, 50-60Hz	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 7" touchscreen display and monitoring of up to 10 racks	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

Height	2000/2267* mm	2000/2200* mm	2000/2200* mm
Width	300 mm	300 mm	300 mm
Depth	1132/1232* mm	1100/1200* mm	1100/1200* mm

* with field installed frame extensions

Suitable Condenser

Up to 35°C Ambient Temperature	CCD10	HCR33	—
Up to 46°C Ambient Temperature	CCD10	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

Vertiv.com | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2020 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.