

# Liebert® CRV

Direct Expansion in the row cooling solution

■ 21kW capacity ■ 300mm wide

The Liebert® CRV is the latest solution in the row cooling solution of Emerson Network Power. It is developed to provide maximum cooling capacity with minimum footprint at the data center space.

Ideal for small-and-medium-sized data centers, the Liebert CRV provides optimal cooling at the server and rack level. Designed to ensure high availability and increase energy efficiency, the Liebert CRV comes in a compact 300 millimeter wide offering – a perfect fit for expanding infrastructure environments where data center space is a premium.

## The Liebert® CRV combines the best footprint capacity with highest efficiency

### Key Features

- Available in 10 and 20 kW models
- Space saving 300mm frame
- Energy efficient design, EER 3.8
- Humidifier and reheat features
- High availability, 25% extra fan capacity for emergency.
- Air discharge baffles delivering cool air closer to heat load
- Easy installation
- Dual power supply with internal ATS\*
- Application flexibility – up to 100m equivalent length\*

\* Available in premium version only.

### High efficiency at full and partial load

- Adjustable air-baffle system to direct airflow from heat source
- Optimized airflow and capacity modulation to match cooling requirements and save energy via:
  - **DC Inverter Scroll Compressor:** Enables variable capacity modulation (30% - 100%)
  - **Electronic Expansion Valve:** Regulation of refrigerant flow that complements compressor to save energy
  - **Variable speed EC Fans:** Regulated speed and start-up operation for energy efficiency

### Advanced & intelligent controls

- Enables communication up to 16 CRV 300mm units
- Advanced control algorithms that allows modulated cooling
- Up to 200 event logs
- Connects up to 10 remote temperature sensors

### Designed to deliver high availability

- Extra 25% fan capacity to ensure cooling availability during emergency
- Faster response and precise temperature control
- Precise control of cooling capacity to adapt to changing thermal requirement



CR021  
(Premium Model)

CR025  
(Base Model)

## Next generation cooling solution

- Energy efficient and environment-friendly R410A refrigerant
- Quiet operation
- Wide selection of upgrade options: Rack sensors, RDI-SIC card for SNMP communication

## Reliable service & support

- Top and bottom piping and electrical connection as standard
- Front door access for simplified maintenance and service
- 24/7 technical support – one of the largest service footprint in Asia

Features	CR025 Basic	CR021 Premium
Display	Small display	Large display
Monitoring Cards	Modbus RS485 standard; RDU-SIC card for SNMP option.	IS-Unity Card
Condensate Pump	Standard	
Air Baffle	Standard	
Remote Rack Sensors	Optional	Standard, 3 sensors
Water Point Leak Sensor	Optional	Standard
Internal ATS	Not Available	Standard
Net Sensible Capacity, kW	21	
Power Supply	380V/3ph/50 & 60Hz	400V/3ph/50Hz (60Hz option)
Refrigerants	R410A	
Compressor	DC Inverter Scroll	
Weight, kg	260	
Dimension WxDxH, mm	300x1100x2000	

\* Performance is based on 35°C dry bulb, 26% relative humidity return air and condensing temperature 45°C.

## Typical Application of the Liebert™ CRV

No. of Racks	Less than 25 racks
Heat Load	Up to 10kW per rack
Space	Small to mid size computer rooms
Raise Floor	Can be installed with or without raised floor

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