Liebert® CRV™ Row-Based Cooling

Intelligent, Integrated Infrastructure for the Data Center

Benefits

Flexibility

- Available in nominal capacities from 19.6kW to 40kW.
- Automatically balances the airflow and cooling capacity independently based on the needs of the IT equipment.
- Horizontal airflow cooling design is suitable for non-raised or raised floors.
- Air, water, glycol, and chilled water systems available.
- Adjustable supply air baffles maximize cooling to rack equipment by avoiding the need to provide extra air that is lost to the room.
- Caster mounted for easy placement.

Availability

- Wellness monitor alerts users in advance of potential issues.
- System provides complete environmental control — cooling, humidity control and air filtration.

Liebert® CRV™ installs within a row of data center equipment racks, providing precision cooling close to the server heat source for the most efficient and effective operation. The combination of Liebert iCOM™ controls, digital scroll compressor and EC plug fans ensure reliability and energy efficiency.

Lowest Total Cost of Ownership

- Compact cabinet with high cooling capacity minimizes floor space requirements.
- Easy to install and maintain — only front and back access required.
- Digital scroll compressor and variable speed EC fans operate efficiently and provide a long service life.

Ideally Suited For:

- Rows of racks in hot aisle / cold aisle configuration.
- Rack equipment with high heat density, or a mix of densities.
- Spot cooling.
- Supporting capacity of existing raised floor cooling units.

Liebert iCOM controls allow multiple cooling units to communicate with each other, allowing them to work together as a team to enhance their performance

Rack sensors ensure the correct amount of cold air is provided to eliminate hot spots

AHRI CERTIFIED® www.ahridirectory.org
Datacom Cooling
AHRI Standard 1360

Technical Data – Liebert® CRV™

DX

Nominal Capacity	19.6kW Air-Cooled -	20kW Air-Cooled Water/Glycol cooled	35kW Air-Cooled Water/Glycol cooled
Input voltage	208-230V, 3ph, 60Hz 460V, 3ph, 60Hz	208, 3ph, 60Hz 460V, 3ph, 60z	208, 3ph, 60Hz 460V, 3ph, 60z
Refrigerant		R410A	
Compressor		Digital Scroll, variable capacity 20-100%	
Fans		Variable speed fans	
Options	Condensate Pump – –	Condensate Pump Electric reheat Humidification	Condensate Pump Electric reheat Humidification
Dimensions			
Height	79in (2000mm)	79in (2000mm)	79in (2000mm)
Width	12in (300mm)	24in (600mm)	24in (600mm)
Depth	43in (1100mm)	43in (1100mm)	43in (1100mm)
Weight			
Air-cooled	230lbs (507kg)	744lbs (337kg)	811lbs (368kg)
Water/Glycol	–	778lbs (353kg)	856lbs (388kg)

CW

Nominal Capacity	32 kW	40kW
Input voltage	460V/3/60 - wye 120V/1/60 208-230V/1/60 208/230/3/60	208, 3ph, 60Hz 460V, 3ph, 60z
Fans	Variable speed fans	Variable speed fans
Options	– –	Electric reheat Humidification
Dimensions		
Height	79in (2000mm)	79in (2000mm)
Width	12in (300mm)	24in (600mm)
Depth	43in (1100mm)	43in (1100mm)
Weight	365lb (166kg)	733lbs (332kg)

Controls and Communications — All Units

Controls	Liebert® iCOM™ control with 9" color touch screen display and 20 sensors for up to 10 racks
Comunications	
Liebert IntelliSlot™ Unity-DP Card	HTTP and SNMP, RS-485 Modbus, Modbus IP/BACnet IP
Liebert IntelliSlot SiteLink-E Card	Liebert SiteScan® Web 4.0 Protocol Card

SL-11970 (R08/20)