

Liebert® CRV™ Row-Based Cooling

Intelligent, Integrated Infrastructure for the Data Center

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.

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

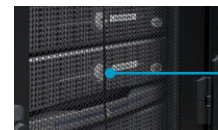
- Wellness monitor alerts users in advance of potential issues.
- System provides complete environmental control – cooling, humidity control and air filtration.

Lowest Total Cost of Ownership

- Compact cabinet with high cooling capacity minimizes floorspace 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.



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



Rack Overview (page 1 of 1)						UNIT 01	
RACK1	RACK2	RACK3	RACK4	DC07	RACK5	UNIT 01	UNIT 02
71.4	72.8	69.4	78.1	74.5	71.8		
Cold Aisle							
72.4	78.8	69.3					
0900V	0150V	CRV1					
All temperatures shown in °F							

Liebert CRV		Front Supply		69.3°F		88%	
71.4	72.8	69.4	78.1	78.8	71.8	74.5	77.7
72.4	78.8	69.3		72.4	76.8		
RACK1	RACK2	RACK3	RACK4	RACK5	DC07	DC08	0900V
UNIT 01							
09:00:00	14:07	01:01	UNIT ON				
09:00:00	14:07	01:01	POWER ON				

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

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Technical Data – Liebert CRV

DX			
Nominal Capacity	19.6kW	20kW	35kW
	Air-cooled	Air-cooled	Air-cooled
	–	Water/Glycol cooled	Water/Glycol cooled
Input Voltage	208-230V, 3ph, 60Hz	208, 3ph, 60Hz	208, 3ph, 60Hz
	–	460V, 3ph, 60z	460V, 3ph, 60z
	400V, 3ph, 50Hz	400V, 3ph, 50Hz	400V, 3ph, 50Hz
Refrigerant	R410A		
Compressor	Digital Scroll, variable capacity 20-100%		
Fans	Variable speed fans		
Options	Condensate Pump	Condensate Pump	Condensate Pump
	–	Electric reheat	Electric reheat
	–	Humidification	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	30kW	34kW	40kW
Input Voltage	208-230V, 1ph, 50-60Hz	208-230V, 1ph, 50-60Hz	208, 3ph, 60Hz
	–	–	460V, 3ph, 60z
	–	–	400V, 3ph, 50Hz
Fans	Variable speed fans		
Options	Condensate Pump	Condensate Pump	Condensate Pump
	–	–	Electric reheat
	–	–	Humidification
Dimensions			
Height	79in (2000mm)	87in (2200mm)	79in (2000mm)
Width	12in (300mm)	12in (300mm)	24in (600mm)
Depth	43in (1100mm)	43in (1100mm)	43in (1100mm)
Weight	365 lb(166 kg)	405 lb (184 kg)	733lbs (332kg)

Controls and Communications – All Units

Controls	Liebert® iCOM™ control with large graphical display and 20 sensors for up to 10 racks
Communications	
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

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