

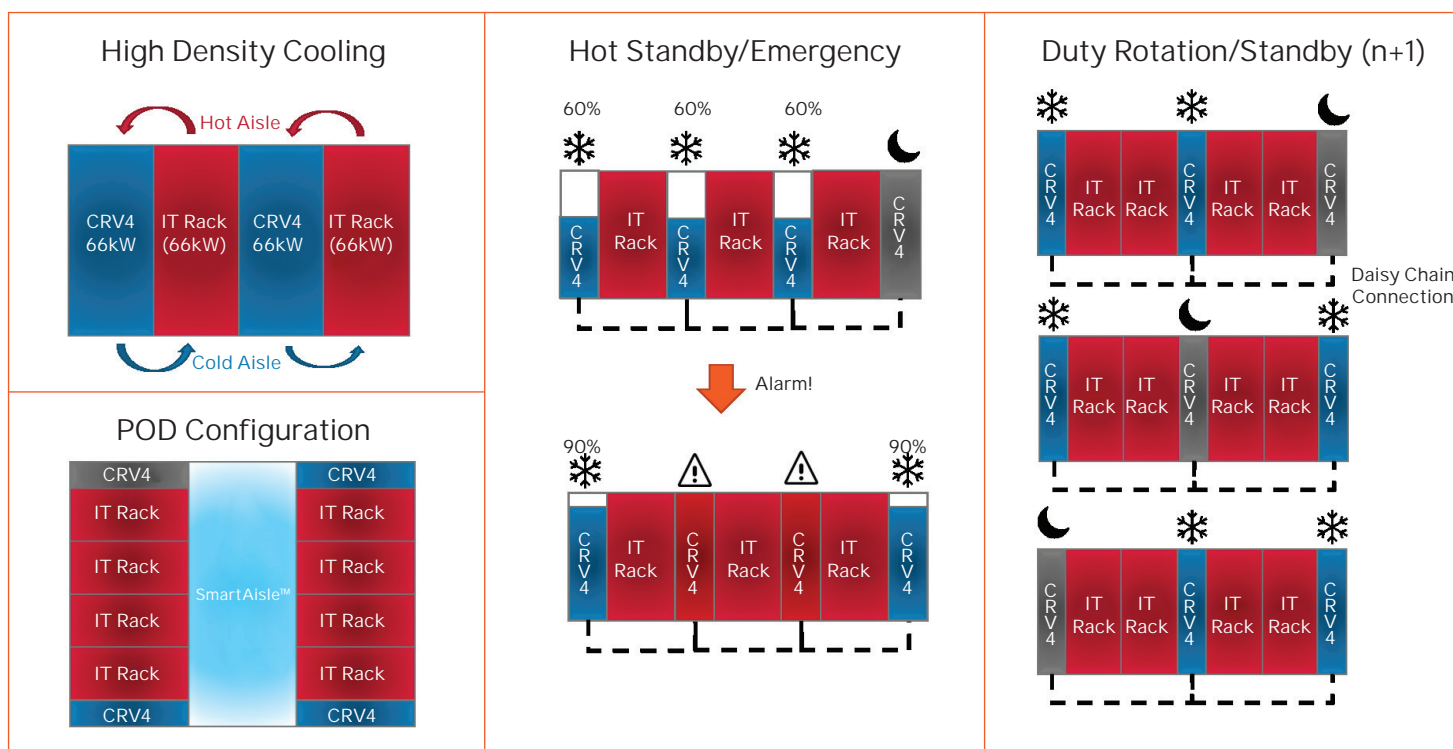
- Suitable for small computer rooms to large data centers

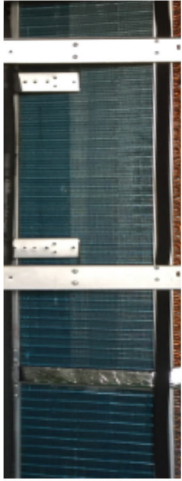
- Suitable for high-density heat loads (>8 kW/rack)

- Able to provide cooling with or without a raised floor

- Thermal Group Control for up to 32 units

Liebert® CRV4: Configuration





Evaporator Coil Design

- The finned tube evaporator with high heat dissipation efficiency is used. R&D has produced evaporator designs with increased efficiency by ensuring that the refrigerant is distributed evenly in each loop.



Variable Capacity Brushless DC Inverter Compressor

- DC inverter compressor technology provides infinite variable capacity modulation between 30% - 100% to ensure precise response to dynamic changing cooling demand.
- Improved reliability by reducing compressor cycling and component wear.
- Environment-friendly R410A refrigerant.



Additional Features

Long Piping Kit

Steam Humidifier

Wind-leading Grill

PTC Heater



Flexible Operations

- Variable capacity for different loading
- Air volume quantity can be varied as per load density



Diversified Allocation

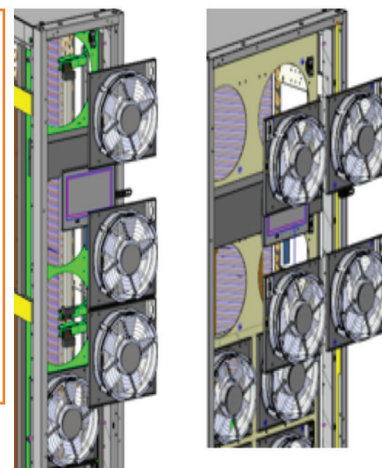
- Best suited for >8 kW/Rack load
- High heat density application with hot/cold aisle row cooling

features, all in one solution



Flexible Fan Operation

- The EC fan speed is automatically regulated by the Liebert CRV4 smart controller.
- High-efficiency EC fans save energy and its hot-swappable design allows replacement while the unit is running.



Electronic Expansion Valve (EEV)

- Allows for integrated and optimal variable capacity control.
- Maintain constant superheat & dehumidification assistance.



Additional Features

Low Temp Kit

Dual Power

Air-filter Clog Switch

Water Leak Detector



Lower Operational Cost

- High return temp design leads to more energy saving
- Small footprint releases space for IT equipment



High Reliability

- High-degree precision controls by smart controller
- Better longevity

Liebert® CRV4 Smart Controller, A Drive to the Highest Efficiency Levels

- 7" large touch screen color display with HMI version.
- Advanced control algorithms allow the airflow and cooling to be modulated independently.
- Multiple control modes (six) for fan and compressor.
- Built-in RS485 interface for Modbus, optional SNMP and TCP/IP interface.



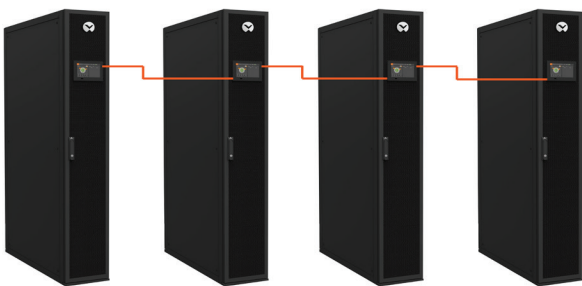
Intelligent Thermal Controls for Smarter Management

Make smarter decisions in your critical infrastructure space with integrated intelligent controls for ease of management. The Liebert® CRV4 is equipped with Intelligent Controls, allowing users to easily manage multiple units (up to 32 units).



- Management of environmental conditions i.e. temperature and humidity, leak, smoke, thermal group control, and digital inputs and outputs.
- Monitoring infrastructure and alarm management: Cooling unit, UPS, gensets, etc.
- Equipped with a built-in web server, eliminating the need for additional software installation.
- Ability to network with other perimeter units, including other 3rd party cooling units.

Via Daisy Chain



Row Cooling Row Cooling Row Cooling Row Cooling



- Up to 16 units can be configured in a team to rotate based on day and time.
- Units that are idle but ready become active in the event of an alarm condition in one of the operating units or based on a rotation schedule.

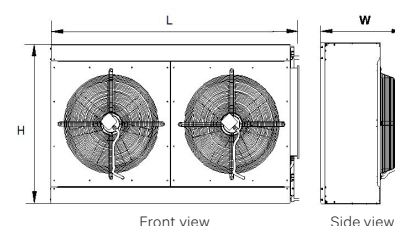
Technical Specifications

Model	Liebert® CR025	Liebert® CR036	Liebert® CR035	Liebert® CR045	Liebert® CR066
Cooling Mode ^[1]	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Total capacity (kW) ^[2]	28.8	35.2	40.9	47.5	64.6
Reheat (kW)	3	3	6	6	6
Humidifier (kg/h)	1.5	1.5	1.5	1.5	1.5
FLA (A)	22.7	32.1	36.9	44.3	51
Electrical Power	380 V to 415 V/3 Ph/50 Hz and 60 Hz				
Net weight (kg)	235	260	320	335	360
Dimension (H x W x D) (mm)	2000 x 300 x 1100	2000 x 300 x 1100	2000 x 600 x 1100	2000 x 600 x 1100	2000 x 600 x 1100

Vertiv™ Liebert® CRV4 Condenser Configuration

Vertiv™ Liebert® LSF Condenser (LxWxH)

Model	35 °C	40 °C	45 °C	
Vertiv™ Liebert®	CR025	LSF38-R3 (1384x695x990)	LSF42-R3 (1584x695x1273)	LSF52-R3 (1584x695x1273)
	CR035	LSF42-R3 (1584x695x1273)	LSF52-R3 (1584x695x1273)	LSF76-R3 (2384x695x1273)
	CR036	LSF42-R3 (1584x695x1273)	LSF52-R3 (1584x695x1273)	LSF70-R3 (2384x695x1273)
	CR045	LSF52-R3 (1584x695x1273)	LSF76-R3 (2384x695x1273)	LSF85-R3 (2384x695x1273)
	CR066	LSF76-R3 (2384x695x1273)	LSF85-R3 (2384x695x1273)	LSF85-R3 (2384x695x1273)

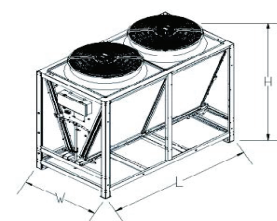


Liebert® LSF™ Unit

Vertiv™ Liebert® LVC Condenser

*Each Liebert LVC must pair with 2 identical Liebert CRV (LxWxH)

Model	35 °C	40 °C	45 °C	
Vertiv™ Liebert®	2 x CR025	/	LVC088 (2330x1100x1709)	LVC106 (2330x1100x1709)
	2 x CR035	LVC088 (2330x1100x1709)	LVC106 (2330x1100x1709)	LVC152 (2330x1250x2222)
	2 x CR036	LVC088 (2330x1100x1709)	LVC106 (2330x1100x1709)	LVC140 (2330x1250x2222)
	2 x CR045	LVC106 (2330x1100x1709)	LVC152 (2330x1250x2222)	LVC170 (2330x1250x2222)
	2 x CR066	LVC152 (2330x1250x2222)	LVC170 (2330x1250x2222)	LVC170 (2330x1250x2222)



Liebert® LVC™ Unit

Note:

1. Water Cooled option is available, please contact Vertiv local representative for more info.
2. Performance based on 37 °C return air temperature, 24% relative humidity, and 45 °C condensing temperature.



Vertiv.com

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