



Vertiv™ Liebert® CRV

Product Family Brochure



## Scalable Cooling Capacity with a Minimal Footprint

Here at Vertiv™, we envision a world where critical technologies always work. The Vertiv™ Liebert® CRV in-row cooling system provides highly efficient cooling directly in front of a row of IT racks, delivering precision cooled air where it's needed most to keep your IT deployments online and functioning at the highest level. Available in a range of capacities, sizes, and heat rejection methods, the Liebert® CRV family offers the perfect solution for your IT space, whether that's a network closet, a small server room, or a medium to large data center.

## Small Footprint, Large Impact



### High cooling efficiency

Cooling has been optimized to get the most out of the unit. With a high sensible cooling capacity, little energy is used to remove humidity from the surrounding area, focusing primarily on changing the temperature of the room. This maximizes your energy efficiency and minimizes operational costs.



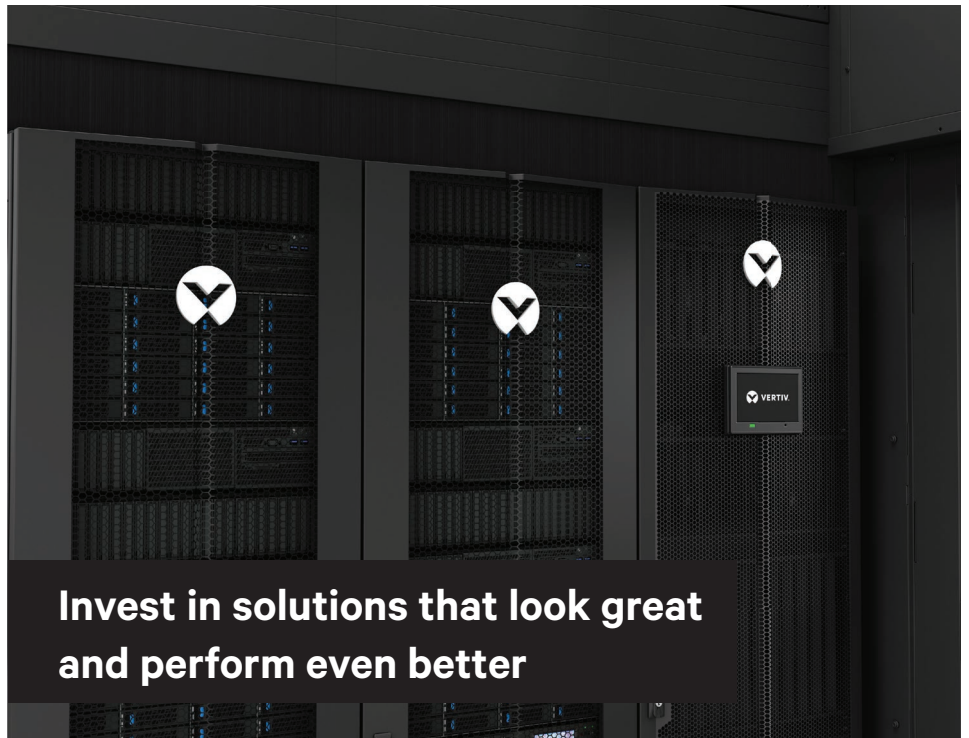
### Built-in capacity modulation

Each DX model was designed with 20-100% capacity modulation and CW model with 0-100% capacity modulation. As your system traffic varies throughout the day and is pushed to its limits, rest at ease knowing the Liebert® CRV is keeping up with those changing demands, optimizing operating conditions in the room and extending the life of the equipment.



### Wide operating range

Installing thermal equipment is already hard enough. With longer refrigerant pipe runs, wider operating temperature ranges, and multiple heat rejection methods available, the Liebert® CRV provides a flexible solution to match almost any building architecture.



## Invest in solutions that look great and perform even better

### Seamless Integration - From Aesthetics to Functionality

We understand that there is a lot of pride in having a data center that looks great. The Vertiv™ Liebert® CRV was designed to fit seamlessly in a row of VR racks, providing the same look and feel across the row. But it's not enough to just have equipment that looks sharp, it needs to deliver high performance and availability to keep critical systems running.

The Vertiv™ Liebert® CRV also has integrated unit-to-unit teamworking capabilities, allowing up to 16 units to be connected together and run as a group. When set up in this way, there are four functions available: Standby, Rotation, Anti-Competition, and Cascading.

**Standby:** one (or several) units can be put on standby and are run at 20% fan speed. If a unit running at full capacity fails, the standby unit will start to run.

**Rotation:** each unit will have an equal runtime, extending the life of all units.

**Anti-Competition:** units will avoid performing conflicting operations, such as one unit heating while another is cooling.

**Cascade:** the standby unit will only begin to run if the heat load exceeds the capacity of the on-duty units.

## Available in Multiple Configurations

### Direct Expansion

| Model                     | CRD10 | CRD25 | CRD35 |
|---------------------------|-------|-------|-------|
| Sensible Cooling Capacity | 10 kW | 25 kW | 35 kW |
| Unit Width (mm)           | 300   | 300   | 600   |

### Chilled Water

| Model                     | CRC30 | CRC60 | CR040 | CR050 |
|---------------------------|-------|-------|-------|-------|
| Sensible Cooling Capacity | 30 kW | 39 kW | 40 kW | 50 kW |
| Unit Width (mm)           | 300   | 300   | 600   | 600   |

### Scalable Cooling Capacity

Each model is capable of at least 20-100% (0-100% for CW units) capacity modulation, meeting the ever-changing demands of the system at all times and providing high cooling availability.

### Top or bottom connections

All models come standard with top and bottom connections for easy connection and flexible installation regardless of building architecture.

### Directional Air Baffles

Improve system performance and deliver ideal air distribution with directional air baffles that provide cool air exactly where it's needed most.

### Multiple heat rejection options

Available as a DX or Chilled Water system, the Liebert® CRV provides multiple options depending on your preferred heat rejection method.



### Monitoring & Control

The Liebert® CRV comes standard with monitoring and control capabilities, further increasing the reliability, efficiency, and longevity of the system, all while providing more space of mind.

### Display Screen

A large 7" touch screen display provides easy to use controls and system status reporting. Customize set points and alarms to fit your needs with the friendly user interface.

### Unit-to-Unit Teamworking

When full system integration is required, the Liebert® CRV stands up to the challenge with unit-to-unit communication providing higher full IT system efficiency and reliability.

### Rich Standard Features

Going above and beyond typical standard features, the CRV DX offers electric reheat, humidification (select models), and dual power supply for added functionality and control over your IT deployment.

## Build Your Total Infrastructure Solution with Vertiv

Discover expert designed IT infrastructure solutions with proven success in diverse environments and countless applications.

### BEGIN WITH A RACK

#### Vertiv™ VR Racks

Server racks designed to simplify equipment installation and provide additional security to your IT deployments.

### CONTAIN YOUR EQUIPMENT

#### Vertiv™ Aisle Containment

Maximize your efficiency and capacity from the core to the edge with hot/cold aisle containment systems, designed specifically with a simplified installation to speed up deployments.

### REMAIN CONNECTED

#### Vertiv™ Liebert® UPS

Help protect mission critical equipment from all power disturbances due to blackouts, brownouts, sags, surges or noise interference.

### STAY COOL

#### Vertiv™ Liebert® CRV

With increasing heat densities, keeping IT equipment running at optimal temperatures is more important than ever. Ensure peace of mind with highly efficient, row-based cooling.



**Fully integrated IT deployments**



**Flexible installation to fit your needs**



**Worry-Free Operation with Remote Monitoring**

