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# Liebert® CRV 10kw

Row-Based Cooling

The Next Generation in High-Efficiency Cooling for Small Spaces and Edge Applications

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

## *Scalable Cooling Capacity in a Minimal Footprint*

The Liebert® CRV 10kW is the next-generation in row-based cooling designed for edge applications and other small spaces. It delivers maximum row-based cooling capacity in a minimal footprint, offering all the features of a standard precision air conditioner in a smaller size, including cooling, air filtration, condensate management, temperature control, alarm functions, data communications, and new energy-efficient technologies. Its inverter-driven compressor and EC fans take efficiency to a whole new level. With the Liebert CRV, now you can expect more flexibility, more efficiency, and more reliability from your small room cooling solutions.

Growth at the edge and higher energy costs mean IT managers need cooling solutions that can fit into smaller spaces and reliably deliver cooling in the most efficient way possible. As the newest addition to the Liebert CRV family and the Liebert CRV DX model is available with a single-phase voltage option, the 10kW model fits the bill, providing a row-based solution specifically designed to optimize cooling efficiency for edge applications, server rooms, and small data centers.

*CRV Application View*

### 2 kW to 10 kW of cooling in a space-saving footprint

Delivering the ideal cooling capacity for compact spaces, the Liebert CRV is designed to fit seamlessly into any small IT space with a “hot-aisle-cold-aisle” configuration, including raised floor and non-raised floor applications. With its modern, streamlined design and air discharge baffles to direct supply air flow wherever it is needed, it can be easily placed between racks or at the end of the row. Wherever you install it, the dual power supply ensures high cooling availability for your critical IT equipment.

### The next generation in cooling efficiency with load matching controls

IT managers have long trusted the Liebert CRV line for its energy efficiency, and the newest CRV model is even more energy-friendly than its predecessors. Like other units in the family, it brings cooling closer to the heat source, maximizing cooing effectiveness, and helping to eliminate hot spots. With its inverter driven compressor and EC fans, it matches cooling to the load in the room in real-time, offering scalable capacity down to 2kW. You don’t use energy you don’t need, giving you greater control over your energy spend.

### Advanced monitoring and control

Featuring the Liebert® iCOM™ Control system to monitor the environment at the rack inlets in real-time, the Liebert CRV automatically adjusts to optimize performance and energy efficiency around the clock. Data center operators are alerted immediately if the unit detects any impending problems so you can take action to protect your critical equipment. With a highly intuitive, full-color, graphical 7” touchscreen display, Liebert iCOM simplifies operations, saving time and reducing human error while giving your IT staff greater confidence in the performance and efficiency of the cooling equipment.

## Key Benefits

- Delivers a comprehensive in-row cooling solution for edge and other small spaces requiring scalable capacity
- High energy efficiency with load matching controls
- Improve air distribution through adjustable air discharge baffles to better protect IT equipment
- Power supply redundancy for high cooling availability
- Flexible installation options and easy to maintain and service
- Provides peace of mind through wellness alerts and remote monitoring

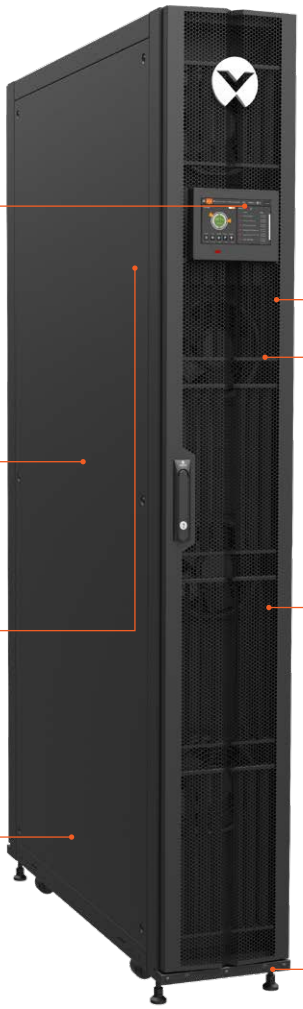
## Features

**User-Friendly Liebert® iCOM™ Controls with 7” Touchscreen Display**
keeps operators informed about room conditions and unit performance, providing wellness alert in advance of potential issues

**Single-Phase Voltage Option**
is ideal for many edge applications

**Remote Monitoring**
capabilities via SNMP, HTTP, Modbus, or BACnet protocols

**Inverter Driven Compressor**
matches cooling to the load in the room in real-time with scalable capacity down to 2kW



**EC Fans**
automate airflow modulation, further improving energy efficiency through providing only as much airflow as needed by the IT equipment in real time

**Dual Power Supply**
with two power source connections allow for redundancy and increased cooling availability

**Adjustable Air Baffles**
allow for flexible unit placement and improve cold air distribution to IT equipment

**Next-Generation Design**
for raised and non-raised floor spaces with accessories available to align with 1200 mm and 48U cabinets, long pipe runs (up to 91m equivalent length), top and bottom piping and electrical connections, and casters and leveling feet for high installation flexibility.

| Type | CRD100 | CRD101 | CRD102 |
|---|---|---|---|
| SKUs | CRD100-0D00A | CRD101-0D00A | CRD102-1D00A |
| Region | Americas | Americas | Europe, Middle East and Africa |
| Net Sensible Cooling Capacity* | 10kW | 10kW | 10kW |
| Capacity Modulation | 20-100% | 20-100% | 20-100% |
| Input Voltage | 208-230V/1Ph/60Hz | 208-230V/3Ph/60Hz | 230V/1Ph/50-60Hz |
| Refrigerant | R410A | R410A | R410A |
| Communications | SNMP, HTTP, Modbus, BACnet | SNMP, HTTP, Modbus, BACnet | SNMP, HTTP, Modbus, BACnet |
| Approvals | UL | UL | CE |
| Dimensions (H x D x W) mm | 2000/2267** x 1132/1232** x 300 | 2000/2267** x 1132/1232** x 300 | 2000/2267** x 1132/1232** x 300 |
| Dimensions (H x D x W) in | 78.7/86.6** x 44.6/48.5** x 11.8 | 78.7/86.6** x 44.6/48.5** x 11.8 | 78.7/86.6** x 44.6/48.5** x 11.8 |

* Return air 29.4°C (85°F), 32% RH & 35°C (95°F) Outdoor temperature, ** with optional frame extensions

| **Condenser matchup table** | | | |
|---|---|---|---|
| Up to 45°C (113F) Ambient temperature | CCD100S-00A | CCD100S-00A | CCD101S-00A |
| Dimensions (W x D x H) without legs | 1300x450x745mm (51.2x17.7x29.3 inch) | 1300x450x745mm (51.2x17.7x29.3 inch) | 1300x450x745mm (51.2x17.7x29.3 inch) |
| Condenser Leg Height | 454mm (17.9inch) | 454mm (17.9inch) | 454mm (17.9inch) |
| **Low Ambient Kit - for outdoor temperatures below -15°C (+5F)** | | | |
| Field installed Kit to enable system operation down to -34°C (-29F) | LAK10UL | LAK10UL | LAK10CE |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