

Liebert XDV Vertical Top Cooling Module

Sensible Spot And Zone Cooling For High Heat Density Equipment



The Liebert XDV top-mounted cooling module provides sensible spot and zone cooling for high heat density equipment.

This flexible, scalable and space saving product mounts on top of the cabinet or suspended from the ceiling, requiring zero floor space. The modular and adaptive design of the Liebert XDV unit also allows it to be easily added as the demand for cooling increases.

It can either draw in hot air directly from inside the cabinet or from the hot aisle, and discharge cool air down into the cold aisle where the electronic equipment air inlets are located

The Liebert XDV is a part of our high heat-density cooling product family that utilizes pumped refrigerant technology. The pumped refrigerant operates at low pressure in the system and becomes a gas at room conditions, making it ideal for use around electronic equipment. Since the Liebert XD system always provides 100% sensible capacity, the need for humidification is significantly reduced, further reducing energy usage and maintenance.

Key Features

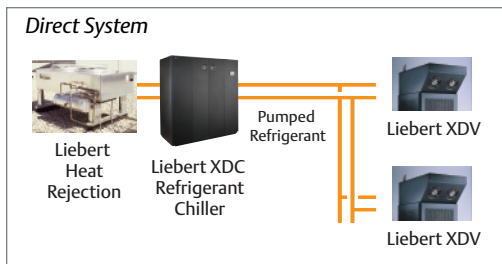
- Can cool more than 10 kW per rack,
- No floor space required.
- Complements Liebert precision cooling units.
- Optional pre-charged flexible piping with threaded quick connect fitting allows adaptive and scalable expansion without interruption of cooling operations.
- Superior cost for cooling per high heat density rack.
- Excellent for spot and zone cooling.
- Uses pumped refrigerant, which is ideal for use around electronic equipment.
- Highly Energy Efficient.
- Flexible installation — mounts on top of the cabinet or suspended from the ceiling.
- Dual (A and B) detachable power cords for increased uptime.
- Complete packaged unit includes enclosure, coil, controls, fans and piping.

Technical Data

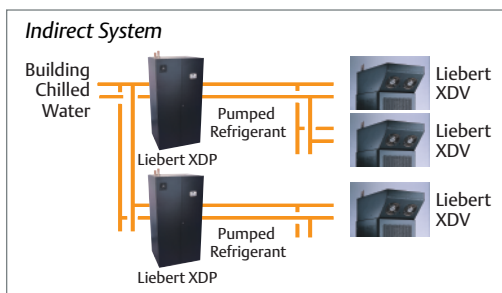
Nominal Capacity, 60 Hz ¹	10 kW / 2.8 Ton
Nominal Capacity, 50 Hz ¹	8.3 kW / 2.4 Ton
Nominal Airflow, 60 Hz	1000 CFM (1700 m ³ /h)
Nominal Airflow, 50 Hz	830 CFM (1410 m ³ /h)
Input Voltage	120 V, 1 ph, 60 Hz or 230 V, 1 ph, 50/60 Hz
Full load amps (with optional Condensate Detection)	2A @ 120V, 1ph, 60 Hz 1A @ 230V, 1ph, 50 Hz
Height (unit only)	14" (355 mm)
Width	23.5" (597 mm)
Depth	29.5"-39.5" (749-1003 mm)
Weight, empty	77 lbs (35 kg)
Options	Quick Connect Couplings (for Flexible Piping) Condensate Detection (dry contacts)

¹Nominal Capacity Rating @ 55 °F (13 °C) Entering Fluid Temperature and 98 °F (37 °C) Entering Air Temperature.
Max capacity @ 55 °F (13 °C) EFT is 11.7 kW @ 106 °F (41 °C) EAT for 60 Hz and 11.7 kW @ 116 °F (46.7 °C) EAT for 50 Hz.

Liebert XD Hydraulic System Schematic

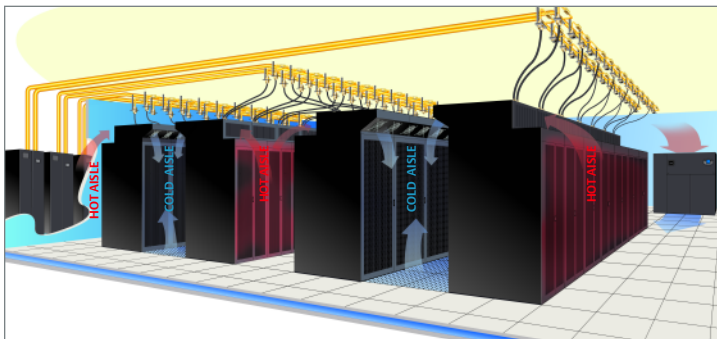


The indoor Liebert XDC refrigerant chiller is specifically designed to support the Liebert XD cooling modules. The Liebert XDC connects directly to the XD modules.



When a building chilled water system is available, the Liebert XDP pumping unit is utilized as an interface between the pumped refrigerant circuit and the chilled water system.

Both the Liebert XDC and the XDP units circulate the refrigerant to Liebert XD units, while maintaining the refrigerant at a temperature always above the actual dewpoint.



The Liebert XDV works extremely well with the "hot aisle-cold aisle" approach.

Liebert Corporation

1050 Dearborn Drive
P.O. Box 29186
Columbus, Ohio 43229
800 877 9222 Phone (U.S. & Canada Only)
614 888 0246 Phone (Outside U.S.)
614 841 6022 FAX

Via Leonardo Da Vinci 8
Zona Industriale Tognana
35028 Piove Di Sacco (PD)
Italy
39 049 9719 111 Phone
39 049 5841 257 FAX

Emerson Network Power Asia Pacific
7/F., Dah Sing Financial Centre
108 Gloucester Rd, Wanchai
Hong Kong
852 25722201 Phone
852 28029250 FAX

liebert.com

24 x 7 Tech Support

800 222 5877 Phone
614 841 6755 (outside U.S.)

While every precaution has been taken to ensure accuracy and completeness in this literature, Liebert Corporation assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

© 2006 Liebert Corporation. All rights reserved throughout the world. Specifications subject to change without notice.

All names referred to are trademarks or registered trademarks of their respective owners.

© Liebert and the Liebert logo are registered trademarks of the Liebert Corporation.

SL-16625 (09/06) Printed in USA

Emerson Network Power.

The global leader in enabling Business-Critical Continuity™.

- AC Power Systems
- Connectivity
- DC Power Systems
- Embedded Computing
- Embedded Power
- Integrated Cabinet Solutions
- Outside Plant
- Power Switching & Control
- Precision Cooling
- Services
- Site Monitoring
- Surge Protection

Emerson Network Power.com

Business-Critical Continuity, Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2006 Emerson Electric Co.