

Vertiv™ Liebert® XDM Split Indoor Chiller

Liquid-Cooled Solution for Air-Cooled Environments



Overview

Internet of things (IoT), artificial intelligence (AI), and other data-intensive technologies like virtual reality are requiring data centers and colocation environments to deploy servers with ever-higher power and cooling requirements.

Where these higher heat loads are required to be supported the Vertiv Liebert XDM paired with Vertiv™ Liebert® DCD family of rear door heat exchangers is the ideal solution without increasing the rack footprint.

Flexible to work with a variety of standard IT Equipment and adaptable to support IT refresh cycles.

The Vertiv Liebert XDM features Liebert® iCOM™ cooling unit control for real time optimization of your cooling assets including monitoring and automation.

Benefits

- Supports high density servers
- Modular configuration to scale your deployment as required
- Improved heat rejection capacity
- Enhanced reliability and efficiency
- Ensured water quality

With its compact, modular format, and up to 200 kW of heat rejection, the Vertiv™ Liebert® XDM split indoor chiller removes the traditional barriers of a centralized chiller to deploy liquid cooling directly where your high density infrastructure is located, giving you a cost-effective, flexible means for deploying high density rack servers where you need them to support advanced applications.

The new Liebert® XDM makes it possible for data centers to deploy liquid-cooled rear door heat exchangers without a centralized facility chiller with coolant distributed directly to the rack doors overhead or underfloor with full control of temperature, volume, and flowrate.

The perimeter-based unit is designed to be modular for flexibility and to support immediate deployments and growth requirements. With integrated Vertiv™ Liebert® Liqui-Tect™ leak detection and unit-to-unit teamworking, the Liebert XDM brings peace of mind to data center teams.

The Liebert XDM is an indoor chiller that connects directly to the Vertiv™ Liebert® DCD rear door heat exchanger and provides circulation and control of the secondary fluid circuit.

The Liebert XDM primary circuit uses R 410A and is compatible with Vertiv™ Liebert® MCV High Density Condenser with premium efficiency control and EC fans with operational efficiency in EconoPhase mode.

Reliable, efficient chilled coolant distribution

With up to 200kW of heat rejection, the Liebert XDM offers the cooling power to support multiple Liebert DCD passive or active rear door heat exchangers, making it ideal for efficiently handling the thermal needs of advanced IT equipment while giving you the capability to scale over time.

The redundant modular design ensures the reliability of your mission critical load. The variable-speed pump controls coolant flow to match heat load with your efficiency goals. The Flexibility of allowing you to set the flow rate based on facility conditions.



Complete visibility and control

For further peace of mind, the Vertiv™ Liebert® iCOM™ control display affords complete visibility into unit status and operating conditions, which can also be monitored remotely. You can set flow rates and receive alerts if operational parameters are outside of boundary conditions or if the unit ever requires to switch to a backup unit.

Vertiv™ Liebert® XDM Technical Specifications

Model	Liebert® XDM 200
Dimensions	
H x W x D mm(inch)	1930mm x 1575mm x1192mm (76" x 62" x 46 7/8")
Weight Dry +/- 5% kg (lbs.)	1800 (816)
Customer Connections (secondary loop to RDHX or liquid cooled server racks)	
Chilled Water	2-1/2" (150 lb) CL Steel Pipe Flange
Chilled Water Valves	Manual isolation valves, Maximum design water pressure 400 PSI [2758 kPA]
Fluid type	Water / Water-glycol
Number of Pumps	1
Pump Redundancy	
Liebert XDM 200 (Single Module)	Single pump (N)
XDM 200	25 ft (7.6 m)
Liebert XDM water volume	
Liebert XDM 200 (Single Module)	6.2 gallons

Liebert XDM 200 (Single Module)		Liebert XDM + MCV330 + PRE		Liebert XDM + MCV440 + PRE	
FLA	91.8	FLA	108.6	FLA	114.2
WSA	97	WSA	113.8	WSA	119.4
OPD	110	OPD	125	OPD	125

Customer Connections Fluid type		Fluid type (primary loop to Heat Rejection Skid) XDM	
Liquid Line, O.D. Copper	7/8" O.D. Cu (Liquid)	Fluid type (primary loop to Heat Rejection Skid)	R410A
Hot Gas Line, O.D. Copper	1-3/8" O.D. Cu (Gas)	Compressor type	Tandem
Service Access	Front and Top		
Condenser Matchup	MCV330 or 440		
Matchup to Vertiv Cooling modules			
Rear door heat exchange	DCD35/47/50 Passive or Active (fan assist)		

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