Rear Door Chilled- Water Cooler



Rear door chilled water cooler is installed on the rear door of server racks, directly cooling the discharge air of the cabinet.

Combined with a chiller, it achieves the isolation of cold and hot environments. The main components include casing, EC fans, heat exchange coil, controller, and group control system, aiming to achieve the optimal performance.

FEATURES

- **Proximity to Heat Source**
  Positioned close to heat source, ensuring hot air enclosed within the server rack. It prevents the mixing of cold and hot air, maintains a high return air temperature, resulting in a large temperature difference for efficient heat exchanging. It is suitable for high- density cabinets, effectively eliminating hotspots.
- **Backup Fan Design**
  Adopts backup fan design, ensuring in the event of part of fans failure, the airflow can still meet the cooling demans.
- **Electronically Commutated (EC) Fan**
  Equipped with high- efficiency back-curve EC fan, providing a large airflow and extended air delivery distance.
- **Stepless Regulation**
  Unit supports stepless speed regulation based on the actual load, offering reliable and quiet operation.
- **High Efficiency**
  Utilizing high-efficiency fin coil, ensuring high heat exchange efficiency.
- **Easy Maintenance**
  The system features automatic recovery after a power failure, faulty warning alerts, and automatic fault diagnosis, simplifying and enhancing operational efficiency.
- **Simple Operation**
  The control panel is designed for simple operation and includes multi-level password protection to prevent unauthorized access.

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Rear Door Chilled-Water Cooler

Product Specification

Parameter	Specification
Model	LPC0050
Total Cooling Capacity (kW)	50
Sensible Cooling Capacity (kW)	50
Airflow (m³/h)	6850
ESP (Pa)	20
Fan Qty	7
Fan Speed (RPM)	2534
Fan Speed Percentage	88.60%
Total Power Input (kW)	0.756
Dimensions (W*D*H) mm	750*350*2300
Fits Rack (U*mm)	48U*750
Power Supply	208-240V/50Hz
	208-240V/60Hz
EER	66.14
Return Air Condition(/RH)	50.0/15%RH
Supply Air Condition(/RH)	22.1/69.5%RH
Chilled Water Temp ( )	20.0/28.0
Volume Fluid Flow (L/s)	1.4
Water Pressure Drop (kPa) (Inc. 2-way valve)	60.4
Connection (mm)	32
Sound Pressure Level (dB)	75
Communication Protocol	Modbus RTU (standard)
	TCP/IP, SNMP (optional)
Hinge Side	Left-Hand Side (standard)
	Right-Hand Side (optional)

Ordering Information

Part Number	Description
LPC0050	Rear Door Chilled-Water Cooler (50kW)

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