

Liquid Distribution Unit (CDU) - Liquid to Liquid

Haiwu Liquid Cooling Distribution Unit (CDU) series is designed to deliver advanced cooling solutions. Its equipment composition includes, but is not limited to, the following components: a plate heat exchanger, secondary side circulation pump, constant pressure refill system, expansion tank, filter, control valves, temperature and humidity sensors, pressure sensors, temperature sensors, flow sensors, PLC control system, touchscreen, and power module. The system is further enhanced by the Haiwu intelligent control system, enabling smart optimization and precise operational adjustments.

Applications

- SuperComputing Data Centers
- Al Data Centers
- Integrated Data Centers
- City-Brain Data Centers and other high power density scenarios



Key Features

- Seamless main/backup power switching with uninterrupted main control. Core components (e.g., pumps) retain their state during power outages and rapidly resume operation upon power restoration.
- Redundant configuration of critical devices, including pumps and sensors, for enhanced reliability.
- High-precision filtration prevents system blockages, ensuring stable performance of server cold plates.
- Wet materials are fully compatible, utilizing corrosion-resistant materials such as 304 stainless steel, PTFE, EPDM, and FKM



Key Values

- An automatic refill system streamlines maintenance efforts
- Online upgrades available for the CDU system
- Online maintainance for key components
- Complete water-electricity isolation enhances safety and reliability
- Maintains dynamic balance, intelligently adjusts as needed, and provides precise control
- Includes an anti-condensation feature to prevent any condensation issues in the system

Technical Parameters

Specificatio	n			In-row CD	U (Liquid to					
Model	DR0150	DR0150	DR0150	DR0600	DR0750	DR0900	DR1350	DR2000		
Capacity (kW)	150	300	450	600	750	900	1350	2000		
Dimension (Single Pump) (mm)		600×1200×2000		900×1200×2000			1200×1200×2000	1200×1600×2200		
Design conditions			Secondary side supply/return: 40/50°C; Primary Side supply/return: 35/45°C.							
Secondary Side Coolant			Specified Coolant by Customers							
Primary Side Coolant			Softened water, glycol solution, PG-25, etc.							
Power Supply Standard			380V 3Ph 50Hz							
Power Architecture			2N (ATS as optional)							
COMMs Protocol			Modbus(SNMP as optional)							

Specification	In-rack CDU (Liquid to Liquid)						
Model	DD045A	DD045	DD080	DD0120			
Capacity (kW)	15~45	45	80	120			
Primary side supply/return (°C)	35/47						
Secondary side supply/return (°C)							
Pump	1+1 Redundancy						
Secondary Side Coolant	Specified Coolant by Customers						
Primary Side Coolant							
Power Supply Standard	220V 1Ph 50Hz	48					
Power Architecture	2N architecture , PDU busbar						
Dimension	19" rack (4U)	21"	rack (4U)				
COMMs Protocol							

Note: For CDU selection, please consult the manufacturer's technical staff.



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