CDU-M30-1200

COOLANT DISTRIBUTION UNIT

OptiCool Coolant Distribution Units: Liquid Cooling for AI High-Performance Computing

The CDU-M30-1200 is a high-flow coolant distribution unit engineered to support large-scale liquid cooling deployments for AI and high-performance computing environments. Designed with up to 1220 GPM secondary loop capacity, the platform supports liquid cooling architectures requiring flow rates up to approximately 1.5 LPM per kW across high-density IT infrastructure while decoupling facility water systems from critical IT cooling networks.

The system supports deployment flexibility across direct-to-chip and rear door heat exchanger architectures, with redundant operation, precision flow control, and industry-standard BMS integration for scalable liquid cooling infrastructure.

With Customizable configurations and precision control systems, OptiCool's CDUs provide scalable, resilient cooling that meets today's demands, while future-proofing your Data Center for tomorrow's capacity needs.

Specifications

EXTERNAL HEAT REJECTION:	CHILLED WATER OR GLYCOL MIX
MAX CAPACITY:	3.0 MW @ 25°F ATD
MAX SECONDARY FLOW:	1220 GPM / 1.5 LPM / kW
POWER:	460 VAC / 3 Phase / 60 Hz
MIN CIRCUIT AMPACITY (MCA):	140 A
MAX OVERCURRENT PROTECTION (MOCP):	200 A
MAX POWER CONSUMPTION:	57 kW
COMMUNICATION / MONITORING:	MODBUS, BACNET, or SNMP
MAX SUPPLY PRESSURE:	100 PSI
MAX EXTERNAL PRESSURE DROP:	65 PSI
WATER TEMPERATURE RANGE:	45° to 130°F
PRIMARY INTERNAL PRESSURE DROP:	13 PSI @ 936 GPM
PRIMARY LOOP WATER CONNECT SIZE:	8 in. NOM SCH 10
SECONDARY LOOP WATER CONNECT SIZE:	8 in. NOM SCH 10
PRIMARY LOOP ALLOWABLE PRESSURE DIFFERENTIAL:	5-87 PSID
DIMENSIONS (LxWxH):	125.00 in. x 56.00 in. x 100.00 in
Dry Weight	5,315 lbs. (Approx)

Features

- Assembled in the USA.
- Industry standard hardware and software for easy BMS integration.
- Redundant and Autonomous Operation.
- Optional, Internal Dual Power Feed (ATS).
- System designed with cooling capacity management to efficiently handle load change fluctuations.
- Intuitive 10-inch touchscreen controls.
- Dynamic self-balancing pressure independent flow control valve for precise capacity control.
- Optional 3-position internal mixing valve for precise return water temperature control.
- Hot-swappable pump modularity for easy maintenance and serviceability.

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