



# 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

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