



CDU-M15-600

COOLANT DISTRIBUTION UNIT

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

The CDU-M15-600 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 630 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 providing hydraulic separation between the facility water system and the technology cooling loop.

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 controls, 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:	1.5 MW @ 25°F ATD
MAX SECONDARY FLOW:	630 GPM / 1.5 LPM / kW
POWER:	460 VAC / 3 Phase / 60 Hz
MIN CIRCUIT AMPACITY (MCA):	70 A
MAX OVERCURRENT PROTECTION (MOCP):	150 A
MAX POWER CONSUMPTION:	38 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 @ 468 GPM
PRIMARY LOOP WATER CONNECT SIZE:	4 in. NOM SCH 10
SECONDARY LOOP WATER CONNECT SIZE:	4 in. NOM SCH 10
PRIMARY LOOP ALLOWABLE PRESSURE DIFFERENTIAL:	5-87 PSID
DIMENSIONS (L x W x H):	100.60 in. x 36.70 in. x 79.00 in.
Dry Weight	4,000 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.



[Opticooltechnologies.com](https://www.opticooltechnologies.com)
Info@opticooltech.com

855 Publishers Pkwy,
Webster, NY 14580 USA

Service 585-453-2014