

Cooling Distribution Unit (CDU)

GW Modular's CDU system delivers precision liquid cooling for high-density data center environments. Designed for rear-door heat exchanger and direct-to-chip applications, the CDU provides tightly controlled flow, pressure, and temperature while reducing on-site integration time through a factory-integrated modular design.



SPECIFICATIONS

-  **500 kW to 5000 kW**
Configurations
-  **+/-1 C**
Temperature control
-  **Direct-to-chip**
Rear-door HX compatible
-  **Factory integrated**
Front/side serviceable

KEY ADVANTAGES

- Low-pressure secondary cooling loop with precise control
- Variable heat load response with condensation control
- Dual variable-speed pumps
- Integrated controls, HMI, instrumentation, and leak detection
- Reduced field labor through preassembled modular construction
- Flexible, customer-configurable design

Let's talk about your next project.
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GW Modular

A DBM GLOBAL COMPANY

DESIGNED FOR PERFORMANCE, SERVICEABILITY, AND FAST DEPLOYMENT

GW Modular's CDU platform combines compact modular construction with precise thermal control, supporting a wide range of liquid-cooled data center architectures. The system is engineered to simplify installation, improve serviceability, and deliver dependable operation across varying load profiles.

CORE FEATURES

- ✓ High-efficiency stainless steel heat exchanger
- ✓ Bank of filters for the technical water loop
- ✓ Automated primary loop control valve
- ✓ Pressure, temperature, and flow instrumentation with optional redundancy
- ✓ Separate electrical connection for pumps and controls from a UPS source
- ✓ Two variable-speed pumps
- ✓ Leak detection probe, expansion vessel, color HMI, and self-leveling feet
- ✓ Primary and secondary minimum 2.5-inch rear connections

ENCLOSURE & OPTIONS

- ✓ 4-point lift capability
- ✓ Steel construction for demanding environments
- ✓ Stainless steel piping options
- ✓ Maintenance-assist kits available
- ✓ Customer-configurable connection and piping arrangement
- ✓ Service access designed for the front or one side

ELECTRICAL & THERMAL SUMMARY

- ✓ 460V, 3-phase, 65k SCCR
- ✓ Secondary coolant temperature range: 50F to 126F (10C to 52C)
- ✓ Dew-point control standard
- ✓ Factory integrated controls and instrumentation
- ✓ Compatible with rear-door heat exchangers and direct-to-chip cooling

PERFORMANCE RANGE

Additional configurations available to meet project requirements.

MODEL	COOLING CAPACITY	PRIMARY FLOW RANGE	SECONDARY FLOW RANGE
CDU-500	500 kW	98.37 - 104.84 GPM	123.71 - 138.17 GPM
CDU-1000	1000 kW	290.12 - 309.21 GPM	295.39 - 329.92 GPM
CDU-2000	2000 kW	673.6 - 717.92 GPM	580.46 - 648.31 GPM
CDU-5000	5000 kW	1917.4 - 2043.54 GPM	1425.35 - 1591.95 GPM



HEAT EXCHANGER
Compact, high-efficiency HX



INSTRUMENTATION
Precision monitoring and control



PUMP SECTION
Dual variable-speed pumps