

GigaModular™ CDU-10MW

Up to 10MW of high-density direct-to-chip liquid cooling – future-proofed with modular scalability

Centralized, modular, scalable

GigaModular™ is the industry’s first scalable, modular CDU built on a future-proof platform for expanding liquid cooling capacity. Deploy it fast, scale it on demand, and operate with ease thanks to centralized control, simplified service, and a pay-as-you-grow model — purpose-built for AI, HPC, and hyperscale data centers.

Future-proof, simplified operation, and seamless platform integration

- Reduced component count and complexity through centralized control module architecture
- Fast deployment and easy maintenance with optional skid-mounted design and integrated rails
- Space-saving installation enabled by optional front-only service access with no rear or side clearance required
- Continuous uptime supported by dual, redundant controllers supported by communication feed back loop and independent power feeds for concurrent maintainability
- Controller ride-through during power transitions ensured by integrated UPS

GigaModular™ CDU-10MW features

- Centralized control design with physically separate pump and control modules
- Dual end suction pumps per module for built-in redundancy with integrated inverter and IE5 efficiency motor that is front serviceable
- Dual high-capacity brazed plate heat exchangers per module designed for maximum flow rates with reduced pressure drop
- Each module has dual 25um (micron) strainers delivering top-tier filtration for the TCS loop
- 3,600 LPM max flow rate per module



From 2.5 to 10MW, GigaModular™ CDU-10MW delivers right-sized cooling for any data hall. Its modular, drop-in design and pay-as-you-grow model make scaling effortless, while centralized controls and intelligent instrumentation streamline operations.

Up to 10MW Cooling Capacity

Scalable from 2.5 to 10MW

Up to 25% CAPEX and Floorspace Savings

Compared to traditional CDU systems

Up to 50°C Ambient Operation

Reliable performance in high-heat environments

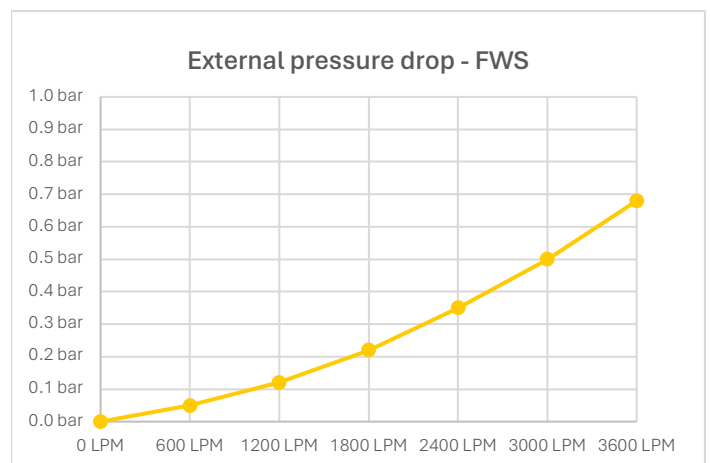
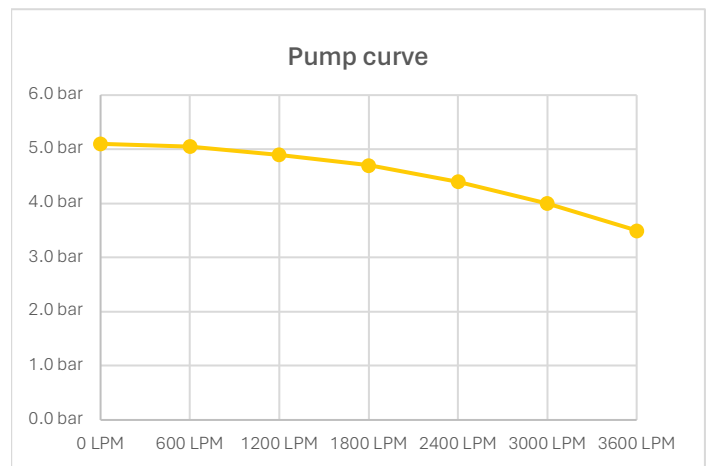
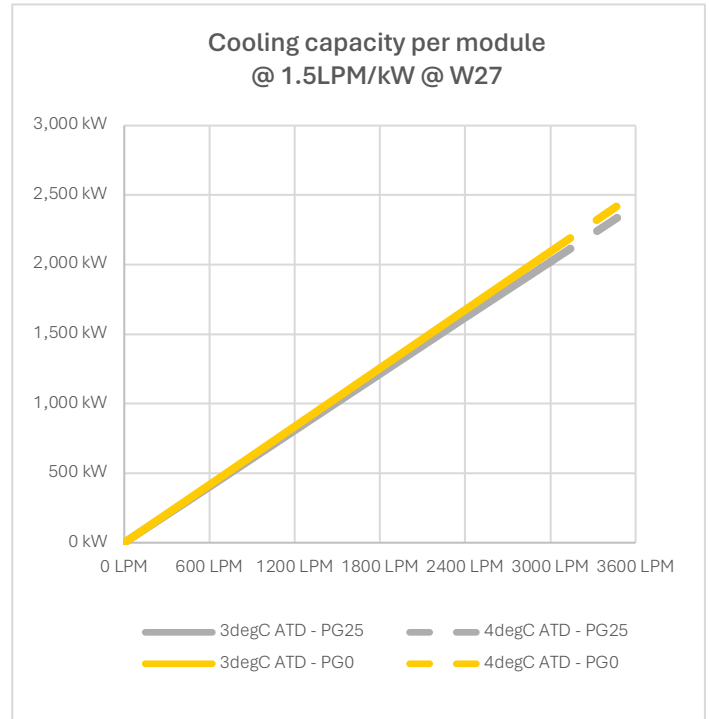
- TRS (Triple-Redundant Sensors) in the header system provide peace of mind
- Choice of PICV (Pressure Independent Control Valves) options to suit your flow
- Over 3.5bar external available head pressure (25µm strainer) at rated conditions
- PN16 (16 bar, 232 psi) rated
- Low 0.5 bar FWS external pressure drop – FWS (Facility Water System)
- Less than 5% THDi with harmonic filters
- Less than 0.5degC temperature rise during pump changeover
- Up to 50degC ambient operating temperature
- Redundant controllers – hotswappable
- Grouping – up to 8 modules
- Triple redundant temperature and pressure sensors – centralized, preinstalled into 12” piping assy
- Optional Centralized EM flow meter for optimized control - preinstalled into 12” piping
- Fork lift pockets and lift points
- Drain pan with rope leak detection

Accessories and options

- Skid-mounted configuration with pre-installed overhead pipework and integrated service rails
- Front-only service access corridors



Performance information



Technical specifications

	CDU Module	Control unit
Dimensions (w/d/h)	1.2* x 1.2 x 2.2m	0.6 x 1.2 x 2.2m
Dry/shipping/operating weight	1,755 / 1,911 / 2,010kg	454 / 511 / 454kg
Max ambient operating temperature	50degC	50degC
Operating conditions	10~85% RH, non-condensing	10~85% RH, non-condensing
Water inlet temp range	W17 to W35	n/a
Power input	380~480V, 3ph, 50/60Hz, 4-wire	200~240V, 1ph, 50/60Hz
Max pump power (each)	22kW	2.3kW
FLA	94A	10A
Number of RH sensors	1	0
Number of fluid fill ports	1	0
Number of Automatic Air Vents	2 (one per strainer)	0
Number of controllers	0	2
Piping insulation size - FWS	19mm	n/a
Number of strainers	2 x 25µm	n/a
Drip tray with leak detection	yes	no
Number of fork lift slots and lifting hooks	4 each	4 each
Max group qty	8	n/a