

Coolant Distribution Unit

Up to 2.3MW of liquid cooling

Superior thermal management

The new foundation of digital infrastructure

Delivering up to 2.3MW of cooling capacity in a single unit, our CDU circulates coolant based on real-time demand, driving powerful yet efficient thermal control. Through its flexible integration and unparalleled capacity, the CDU enables both existing and upcoming data centres to future-proof with liquid cooling technology.



Up to **2.3MW** of cooling for AI & HPC workloads



Extremely low PUE of **1.05** at full load



Up to **50%** power savings compared to air cooling



Features & Functions



1 Coolant Flow & Temperature Control

- **Variable Speed Pumps and Modulating Control Valves:** Alter coolant flow based on real-time conditions. Maintains optimal temperature and prevents fluctuations that may cause hardware degradation.



3 Redundancy & Safety Options

- **Dual Power Supply Options and Redundant Pumps:** Ensure uninterrupted operation and fault tolerance, maintaining uptime in mission-critical environments.
- **Integrated Leak Detection:** Automatic shut-off mechanism minimizes potential risks associated with liquid cooling systems.



2 Liquid Quality Preservation

- **25µm Filter:** Removes impurities to maintain optimum liquid quality.
- **Automatic Air-Vent:** Removes trapped air pockets that may disrupt coolant flow.



4 Superior Thermal Management

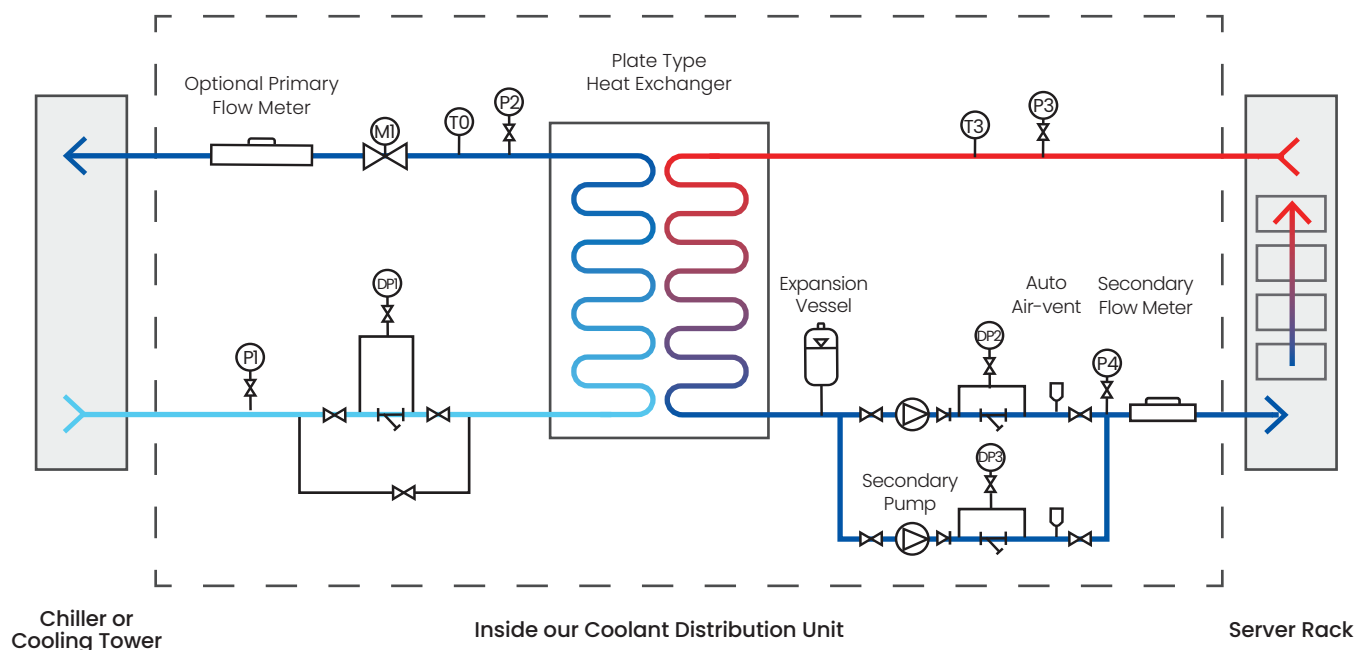
- **Plate Type Heat Exchanger:** Enables rapid heat transfer between primary and secondary loops, continuously maximizing heat dissipation even under high computational loads.



Powerful, effective, proactive. Watch how it works.



Schematic



Specifications

Model (CDU***)	048	070	140	230
Capacity (kW)	480	700	1400	2300
Primary		Water		
Water Supply/Return (°C)		18 / 26		
Water Flowrate (L/s)	14.6	20.6	41.0	60.1
Pipe Connection Size (Inch)	3	4	5	6
Pressure Drop (kPa)		<110		
Secondary		Water / PG25		
Coolant Supply/Return (°C)		22 / 32		
Flow Rate (L/s)	12.4	17.5	34.6	51.4
Pipe Connection Size (Inch)	3	4	5	6
Pump Type		Centrifugal Pump		
Pump Quantity	N+1 (2)	N+1 (2)	N+1 (2)	N (2)
Unit Width (mm)	800	1200	1400	1400
Unit Depth (mm)	1400	1200	1400	1200
Unit Height (mm)	2200	2200	2200	2200
Unit Weight (kg)*	1000	1100	1250	1740
Power Supply		380~415V 3P+1N 50/60Hz		
Communication		Modbus RTU, Modbus TCP/IP, SNMP		

- Dry weight, before liquid. Please contact our representatives for further information or other requirements.
- The manufacturer reserves the rights to make changes to the product specifications. The data and renders shown above may vary.