

Coolant Distribution Unit (CDU)

Up to 2MW of cooling per unit

Superior thermal management

Exponential growth

Industries are increasingly investing in AI and HPC for complex tasks. Data centres must evolve for this demand. Driven by the rising adoption of high-density racks, the global data centre liquid cooling market is predicted to grow at a rate of 20%-25%.

Engineered for the latest demands in AI and HPC

Liquid cooling can support densities beyond 30 kW per rack, making it ideal for HPC and AI workloads. Through its flexible integration, our CDU allows existing and upcoming data centres to future-proof with liquid cooling technology.



Features & Benefits



Space Optimization

Compact design maximizes available space and allows for higher server density.



Proactive

Actively filters impurities, prolonging system reliability and liquid cooling quality.



Flexible Deployment

Fits various environments, from small server rooms to large-scale operations.



Lower PUE

Efficient system surpasses local standard PUE requirement.



Superior Heat Transfer

Liquid cooling offers the most efficient heat removal, ideal for high-density applications.



Hybrid Adoption

CDUs can be implemented alongside existing air cooling solutions for flexibility.

Applications for Canatec CDU & Liquid Cooling Solutions

Machine Learning



High Performance Computing



Genomics & Protein Dynamic Simulation



Climate Modelling



Inside our Coolant Distribution Unit

Plate Type Heat Exchanger

Space-efficient while enabling rapid transfer of heat.

Secondary Pumps

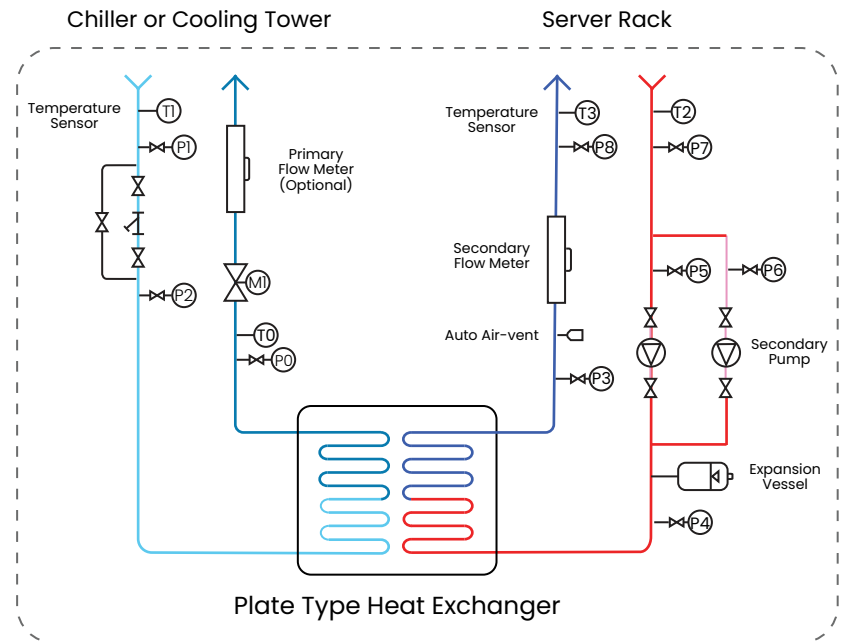
Secondary Pumps can run in single pump, dual pumps (1+1) or dual pumps mode.

Filtration System

25µm filter removes impurities to ensure optimum liquid quality.

Optional Components

Side stream filter. Battery back-up. Rack-level control system.



Specifications

| Model (CDU***) | 048 | 070 | 140 | 200 |
|------------------------|---------------|---------------|---------------|----------------|
| Capacity (kW) | 480 | 700 | 1400 | 2000 |
| Primary | | | | |
| Water Supply (°C) | 19.0 | 19.0 | 19.0 | 19.0 |
| Flow Rate (L/s) | 14.4 | 21.0 | 41.8 | 59.7 |
| Pressure Drop (kPa) | <110 | <110 | <110 | <110 |
| Secondary | | | | |
| Coolant Supply (°C) | 37.0 | 37.0 | 37.0 | 37.0 |
| Flow Rate (L/s) | 9.6 | 14.0 | 27.9 | 39.8 |
| Power Consumption (kW) | 5.2 | 7.5 | 10.2 | 19.5 |
| Dimension (mm) | 600x1200x2200 | 900x1200x2200 | 900x1200x2200 | 1200x1200x2200 |
| Pipe Connection (DN) | 65/65 | 80/100 | 80/100 | 125/125 |
| Unit Weight (Kg) | 550 | 600 | 600 | 760 |
| Noise (dBA) | <55 | <60 | <60 | <60 |

- Please contact our representatives for other requirements.
- The manufacturer reserves the rights to make changes to the product specifications. The data shown above may vary.