CANATEC

# 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**
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.

## Liquid cooling enables the future of innovation

**Deep Machine Learning**

**High Performance Computing**

**Genomics & Bioinformatics**

**Cloud Service Hosting**

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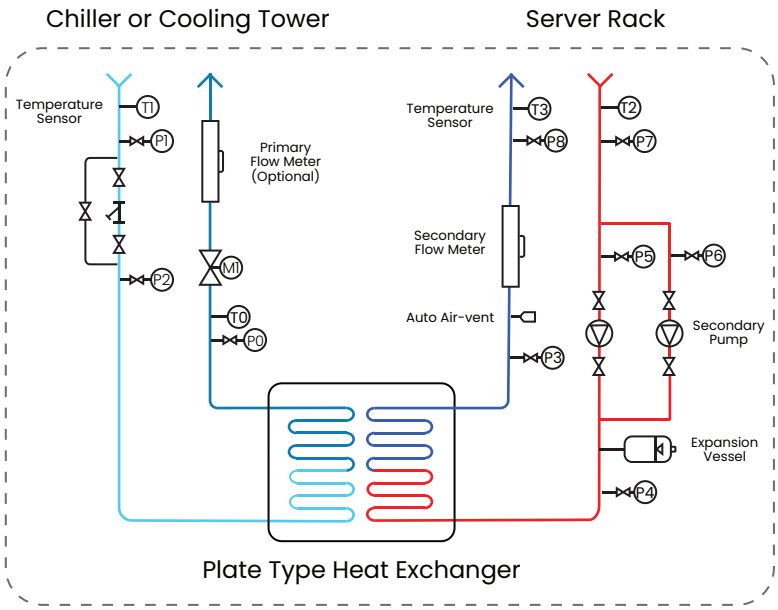
## Inside our Coolant Distribution Unit

**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 | 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.

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