

Smart Cooling (Chilled Water)

Compact and reliable

Canotec Smart Cooling (Chilled Water) combines chilled water and EC fans for precise cooling and humidity control. Select from a wide range of capacities to suit any requirements.

High-Efficiency V-Coil Design

The advanced V-shaped coil design maximizes heat exchange, providing high cooling capacity within a compact unit.

Robust and Durable

Designed to provide reliable cooling for years to come, reducing the need for frequent replacements or repairs.

Ease of Maintenance

Our CRAC units are designed with front door maintenance making routine checks and part replacements more easier.



Cooling Capacity

40kW to 180kW

Recommended for

- Data Centres & Server Rooms
- Production Facilities
- Telecommunications Structures

Features & Benefits



Modular Design

Allows for customization and upgrades to suit all customer requirements.



2-Way Modulating Valve

Automatic adjustment according to heat load requirement.



Easy Front Access

Front & side panels allow for ease of maintenance.



Optional Drawer Pull-Out EC Fan

Easy to clean for sustained performance.



Symmetrical V Coil Design

Maximizes heat exchange, providing high cooling capacity within a compact unit.



Upthrow or Downthrow

Different options for air distribution according to requirements.



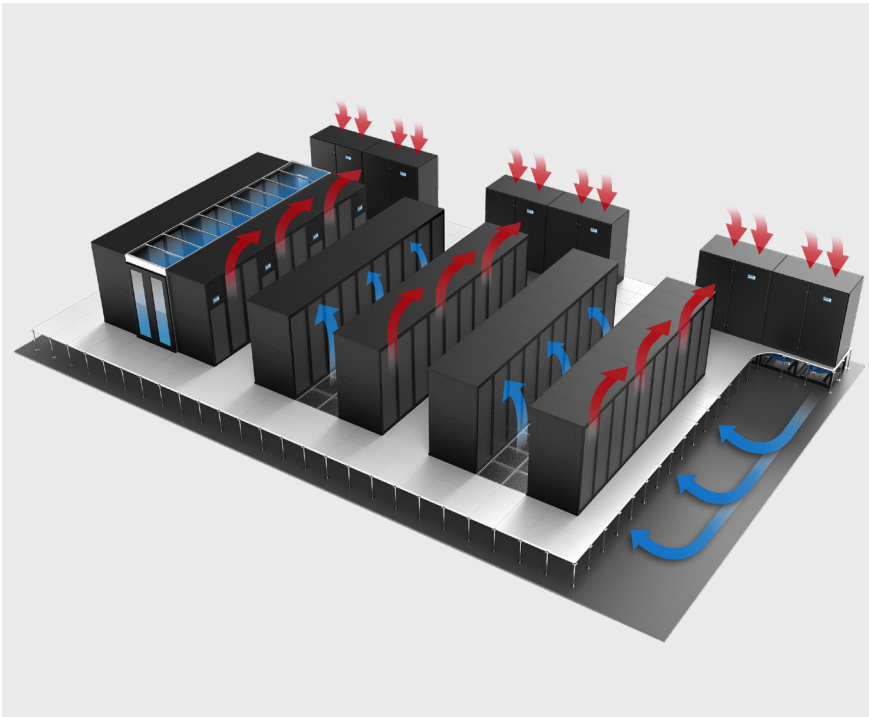
Smart Controller

Multiple monitoring functions and BMS connection capabilities.



Co-Work™

Enables main board linkage between units for enhanced backup.



Raised Floor Airflow

1. Cold air is supplied by the Smart Cooling unit into the raised floor plenum.
2. Cold air flows up through perforated tiles into the cold aisles, cooling the server racks.
3. Servers exhaust hot air into the hot aisles behind them.
4. Hot air rises and returns to the Smart Cooling unit, where it is cooled.
5. The cycle repeats, ensuring consistent temperature control.

Specifications

| Model (SCCU/D****) | 040IE | 060IE | 080IE | 120IM | 150IE | 180IE | 190IM |
|--------------------------------|--|---------------|----------------|----------------|----------------|----------------|----------------|
| Condition | RAT 36°C, SAT 24°C, CHW 18°C/26°C | | | | | | |
| Total Cooling Capacity (kW) | 10.5 | 18.6 | 62.0 | 115.2 | 107.1 | 133.8 | 174.3 |
| Sensible Cooling Capacity (kW) | 10.5 | 18.6 | 62.0 | 115.2 | 107.1 | 133.8 | 174.3 |
| SHR | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Air Volume (CMH) | 2700 | 4800 | 16000 | 29500 | 27500 | 34500 | 42000 |
| CHW Flowrate (L/s) | 0.31 | 0.56 | 1.85 | 3.44 | 6.21 | 4.00 | 5.20 |
| Power Input (kW) | 0.8 | 1.0 | 3.0 | 6.6 | 6.0 | 7.8 | 10.5 |
| Condition | RAT 24°C, SAT 12°C, CHW 7°C/12°C | | | | | | |
| Total Cooling Capacity (kW) | 16.4 | 43.8 | 79.5 | 142.7 | 129.7 | 165.8 | 222.6 |
| Sensible Cooling Capacity (kW) | 14.1 | 38.3 | 68.6 | 120.4 | 110.7 | 139.9 | 180.4 |
| SHR | 0.86 | 0.87 | 0.86 | 0.84 | 0.85 | 0.84 | 0.81 |
| Air Volume (CMH) | 3500 | 9500 | 17000 | 29500 | 27500 | 34500 | 42000 |
| CHW Flowrate (L/s) | 0.78 | 2.10 | 3.80 | 3.44 | 6.21 | 4.00 | 10.65 |
| Power Input (kW) | 1.2 | 2.0 | 3.7 | 6.6 | 6.0 | 7.8 | 10.5 |
| External Static Pressure (Pa) | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Fan Type | EC Plug Fan | EC Plug Fan | EC Plug Fan | EC Plug Fan | EC Plug Fan | EC Plug Fan | EC Plug Fan |
| Fan Quantity | 1 | 1 | 2 | 2 | 3 | 3 | 3 |
| CHW Inlet/Outlet | DN40 | DN40 | DN50 | DN50 | DN50 | DN50 | DN50 |
| Unit Dimension (WxDxH) in mm | 930×1000×1980 | 930×1000×1980 | 1830×1000×1980 | 1830×1000×1980 | 2530×1000×1980 | 2530×1000×1980 | 2730×1000×1980 |
| Unit Weight (Kg) | 380 | 410 | 510 | 610 | 650 | 700 | 780 |
| Power Supply | 380~415V 3PIN 50/60Hz | | | | | | |
| Standard Accessories | G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor | | | | | | |
| Optional Accessories | Active Harmonic Filter, ATS, Battery Backup, EPIV / Energy Valve, Power Meter, Smoke Detector, Remote Air Sensor, Air Damper | | | | | | |

- 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.