Smart Cooling

(Dual Circuit Chilled Water+Chilled Water)

Compact and reliable

Canatec Smart Cooling (Chilled Water) delivers increased cooling capacity and redundancy via an additional chilled water circuit. Recommended for precise environmental control.

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
20kW to 150kW

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 Access
Front & side panels allow for ease of maintenance.

Optional Drawer Pull-Out EC Fan
Easier to inspect and clean, improving overall sustained performance.

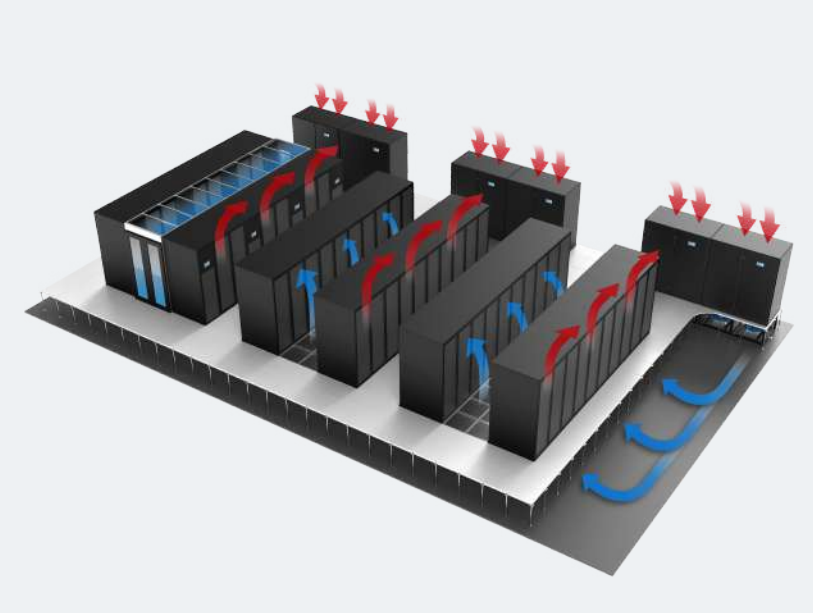
Symmetrical V Coil Design
Maximizes heat exchange, providing high cooling capacity within a compact unit.

Upthrow or Downthrow
Different options for air distribution according to requirements.

Smart Controller
Multiple monitoring functions and BMS connection capabilties.

Co-Work™
Enables main board linkage between units for enhanced backup.

CANATEC



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 (SCTU/D****E)	1002	1202	1402	1802
Condition	RAT 36°C, SAT 24°C, CHW 18°C/26°C			
Total Cooling Capacity (kW)	18.2	24.8	96.4	135.1
Sensible Cooling Capacity (kW)	18.2	24.8	96.4	135.1
SHR	1.00	1.00	1.00	1.00
Air Volume (CMH)	4700	6400	25000	35000
CHW Flowrate (L/s)	0.54	0.74	2.88	4.04
Power Input (kW)	2.6	2.9	6.7	9.5
Condition	RAT 36°C, SAT 12°C, CHW 7°C/12°C			
Total Cooling Capacity (kW)	53.8	76.1	118.5	169.8
Sensible Cooling Capacity (kW)	46.7	66.5	101.2	145.6
SHR	0.87	0.87	0.85	0.86
Air Volume (CMH)	11500	16500	25000	36000
CHW Flowrate (L/s)	2.57	3.64	5.67	8.13
Power Input (kW)	3.6	4.4	6.7	9.5
External Static Pressure (Pa)	75	75	75	75
Fan Type	EC Plug Fan	EC Plug Fan	EC Plug Fan	EC Plug Fan
Fan Quantity	2	2	3	3
CHW Inlet/Outlet	DN50	DN50	DN50	DN65
Unit Dimension (WxDxH) in mm	1820x1000x1980	1820x1000x1980	2530x1000x1980	2530x1000x1980
Unit Weight (Kg)	580	680	820	850
Power Supply	380~415V 3P1N 50/60Hz			
Standard Accessories	G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor			
Optional Accessories	ATS, Battery Backup, Power Meter, EPIV/Energy Valve, Smoke Detector, Heater, Fanbox/Fanguard, 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.