

Smart Cooling

(Dual Circuit Chilled Water)

Compact and reliable

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

Space-saving optimization

The high-efficiency V-coil design increases surface area and airflow efficiency, maximizing heat exchange and delivering powerful, consistent cooling within a compact frame.

Built to last, designed for easier upkeep

Our Smart Cooling units are highly durable yet engineered with ease of maintenance in mind. Technicians can access components through thoughtfully designed front and side panels during routine checks to ensure peak efficiency.



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, Downthrow or Dropdown

Different options for air distribution according to requirements.



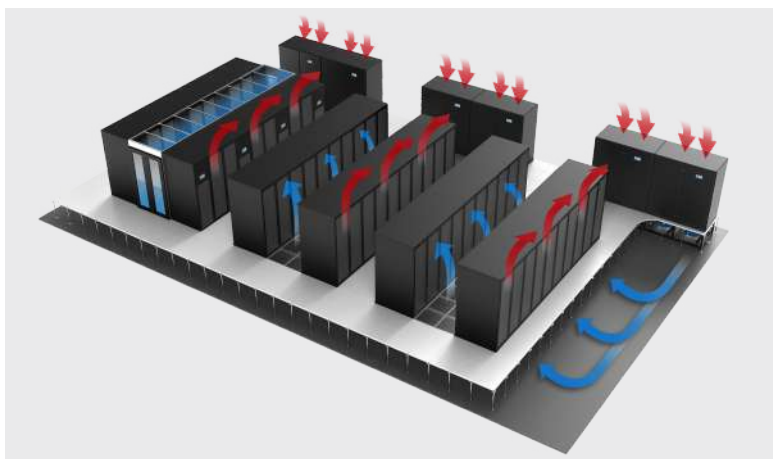
Smart Controller

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 (SCTU/D****E)	0801	1001	1201	1401	1601	1801
Condition	RAT 36°C, CHW 18°C/26°C					
Total Cooling Capacity (kW)	61.6	67.5	84.4	104.9	123.8	132.3
Sensible Cooling Capacity (kW)	61.6	67.5	84.4	104.9	123.8	132.3
SHR	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	20000	23000	27000	30000	33000	36000
CHW Flowrate (L/s)	1.90	2.11	2.64	3.29	3.87	4.14
Power Input (kW)	2.0	6.0	6.2	3.0	5.4	6.0
Condition	RAT 24°C, CHW 7°C/12°C					
Total Cooling Capacity (kW)	72.3	75.5	99.4	126.4	155.0	163.8
Sensible Cooling Capacity (kW)	69.1	75.5	94.4	110.4	130.6	139.6
SHR	0.96	1.00	0.95	0.87	0.84	0.85
Air Volume (CMH)	20000	23000	27000	30000	33000	36000
CHW Flowrate (L/s)	3.55	3.76	4.95	6.29	7.68	9.13
Power Input (kW)	2.0	6.0	6.2	3.0	5.4	6.0
External Static Pressure (Pa)	75	75	75	75	75	75
Fan Type	EC Plug Fan					
Fan Quantity	2	2	2	3	3	3
CHW Inlet/Outlet (mm)	DN50	DN50	DN50	DN50	DN65	DN65
Width (mm)	1820	1820	1820	2720	2720	2720
Depth (mm)	1000	1000	1000	1000	1000	1000
Height (mm)	1980	1980	1980	1980	1980	1980
Unit Weight (kg)	580	630	780	820	850	890
Power Supply	380~415V 3PIN 50/60Hz					

Standard Accessories

G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor

Optional Accessories

ATS, Battery Backup, Power Meter, EPV / Energy Valve, Smoke Detector, Heater, Fanbox / Fanguard, Air Damper

Configurations

Upthrow / Downthrow / Dropdown

• 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.