

# Smart Cooling (Chilled Water)

## Compact and reliable

Canatec 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

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.



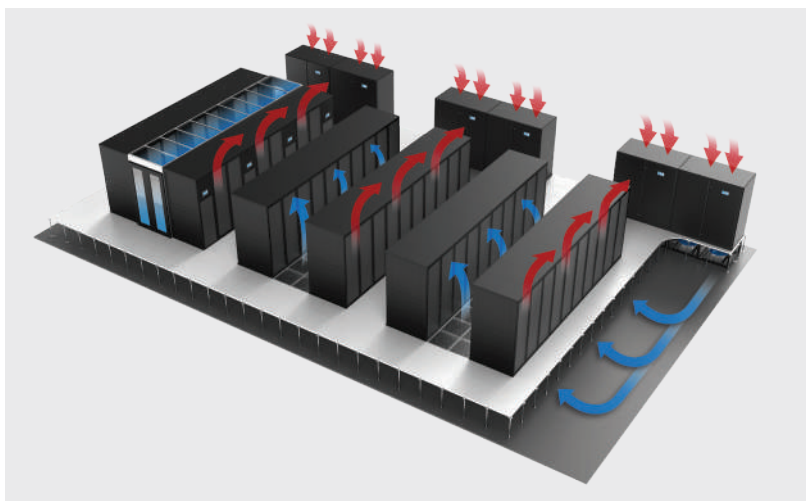
### Smart Controller

Multiple monitoring functions and BMS connection 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****E/M)	0401	0601	0801	1001	1201	1501	1901
Condition	RAT 36°C, CHW 18°C/26°C						
Total Cooling Capacity (kW)	19.0	39.4	66.2	70.9	89.0	106.3	141.0
Sensible Cooling Capacity (kW)	19.0	39.4	66.2	70.9	89.0	106.3	141.0
SHR	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	9000	12000	20000	22000	26000	30000	33000
CHW Flowrate (L/s)	0.61	1.24	2.10	2.25	2.81	3.36	4.43
Power Input (kW)	1.5	2.0	4.0	4.5	5.0	6.0	6.9
Condition	RAT 24°C, CHW 7°C/12°C						
Total Cooling Capacity (kW)	29.6	48.3	80.7	85.2	109.8	129.7	193.0
Sensible Cooling Capacity (kW)	29.6	44.0	72.4	77.5	97.1	111.7	145.9
SHR	1.00	0.91	0.90	0.91	0.88	0.86	0.76
Air Volume (CMH)	9000	12000	20000	22000	26000	30000	33000
CHW Flowrate (L/s)	1.49	2.41	4.05	4.29	5.49	6.49	9.57
Power Input (kW)	1.5	2.0	4.0	4.5	5.0	6.0	6.9
External Static Pressure (Pa)	75	75	75	75	75	75	75
Fan Type	EC Plug Fan						
Fan Quantity	1	1	2	2	2	3	3
CHW Inlet/Outlet (mm)	DN40	DN40	DN50	DN50	DN50	DN50	DN50
Unit Dimension (WxDxH) in mm	930×1000×1975	930×1000×1975	1830×1000×1975	1830×1000×1975	1830×1000×1975	2530×1000×1975	2730×1000×1980
Unit Weight (kg)	350	380	500	550	600	650	800
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, Power Meter, EPIV / Energy Valve, Smoke Detector, Remote Air Sensor in Data Hall, 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.

