

Smart Cooling

(Dual Circuit Air-Cooled & Chilled Water)

Compact and reliable

Canatec Smart Cooling (Dual Circuit Chilled Water) offers efficient cooling and added redundancy.

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

25kW to 90kW

Recommended for

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

Features & Benefits



2-Way Modulating Valve

Automatic adjustment according to heat load requirement.



Co-Work™

Enables main board linkage between units for enhanced backup.



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 capabilities.



Further Customization

Option for inverter and non-inverter scroll compressor.

Specifications

Model (SCDU/D****M/EV)	0251	0301	0351	0401	0501	0402
Condition	RAT 36°C, CHW 18°C/26°C					
Total Cooling Capacity (kW)	26.7	31.2	33.9	34.9	40.4	38.7
Sensible Cooling Capacity (kW)	26.7	31.2	33.9	34.9	40.4	38.7
SHR	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	7200	8610	9520	10320	12610	10650
CHW Flowrate (L/s)	0.8	0.93	1.02	1.04	1.21	1.16
Power Input (kW)	13.4	15.2	17.1	18.6	22.7	20.0
Condition	RAT 24°C, CHW 7°C/12°C					
Total Cooling Capacity (kW)	35.2	38.8	41.4	41.3	46.4	58.6
Sensible Cooling Capacity (kW)	29.7	34.3	37.1	38.1	44.1	46.6
SHR	0.84	0.89	0.90	0.92	0.95	0.80
Air Volume (CMH)	7200	8610	9520	10320	12610	10650
CHW Flowrate (L/s)	1.68	1.85	1.98	1.97	2.22	2.8
Power Input (kW)	11.6	12.9	14.3	16.3	19.3	18.7
External Static Pressure (Pa)	75	75	75	75	75	75
Fan Type	EC Plug Fan					
Fan Quantity	1	1	1	1	1	1
Refrigerant Type	R410A					
Compressor QTY	1	1	1	1	1	2
Compressor Type	Hermetic Inverter Scroll					
CU Model	NACD18A	NACD18A	NACD22A	NACD22A	NACD30A	NACD18A
CU Width (mm)	1495	1495	1495	1495	2090	1495
CU Depth (mm)	1235	1235	1235	1235	1235	1235
CU Height (mm)	1165	1165	1240	1240	1255	1165
Unit Weight (kg)	115	115	135	135	195	115
CHW Inlet/Outlet (mm)	DN32	DN32	DN40	DN40	DN40	DN40
Gas Piping (mm):	22	22	22	22	22	22
Liquid Piping (mm):	16	16	16	16	16	16
Unit Width (mm)	880	880	880	1475	1475	1475
Unit Depth (mm)	1000	1000	1000	1000	1000	1000
Unit Height (mm)	1980	1980	1980	1980	1980	1980
Unit Weight (kg)	520	540	560	580	605	655
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, 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.

Specifications

Model (SCDU/D****)	0502	0602	0702	0802	0902	1002
Condition	RAT 36°C, CHW 18°C/26°C					
Total Cooling Capacity (kW)	48.8	61.5	65.2	69.9	76.3	81.0
Sensible Cooling Capacity (kW)	48.8	61.5	65.2	69.9	76.3	81.0
SHR	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	13010	16950	18200	20640	23180	25220
CHW Flowrate (L/s)	1.46	1.84	1.95	2.09	2.28	2.42
Power Input (kW)	24.4	33.5	36.9	42.3	48.4	51.0
Condition	RAT 24°C, CHW 7°C/12°C					
Total Cooling Capacity (kW)	66.3	76.4	81.5	82.8	89.0	93.0
Sensible Cooling Capacity (kW)	54.7	67.6	72.1	76.4	83.3	88.5
SHR	0.83	0.89	0.89	0.92	0.94	0.95
Air Volume (CMH)	13010	16950	18200	20640	23180	25220
CHW Flowrate (L/s)	3.17	3.66	3.9	3.96	4.26	4.45
Power Input (kW)	21.9	29.1	31.5	37.1	41.3	44.3
External Static Pressure (Pa)	75	75	75	75	75	75
Fan Type	EC Plug Fan					
Fan Quantity	1	2	2	2	2	2
Refrigerant Type	R410A					
Compressor QTY	2	2	2	2	2	2
Compressor Type	Hermetic Inverter Scroll					
CU Model	NACD18A	NACD18A	NACD22A	NACD22A	NACD26A	NACD30A
CU Width (mm)	1495	149	1495	1495	2090	2090
CU Depth (mm)	1235	1235	1235	1235	1235	1235
CU Height (mm)	1165	1165	1240	1240	1165	1255
Unit Weight (kg)	115	115	135	135	165	195
CHW Inlet/Outlet (mm)	DN40	DN50	DN50	DN50	DN50	DN50
Gas Piping (mm):	22	22	22	22	22	22
Liquid Piping (mm):	16	16	16	19	19	19
Unit Width (mm)	1475	1710	1710	2375	2375	2375
Unit Depth (mm)	1000	1000	1000	1000	1000	1000
Unit Height (mm)	1980	1980	1980	1980	1980	1980
Unit Weight (kg)	710	795	835	955	995	1015
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, EPIV/Energy Valve, Smoke Detector, Heater, Fanbox/Fanguard, Air Damper					

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