

# Smart Nano

## (Chilled Water/Air-Cooled)

### High density cooling system

Canatec Smart Nano combines is designed for tight spaces and especially suitable for server rooms and high-density small-to-medium data facilities.

Our Smart Nano units offer precise temperature and humidity control in a compact, reliable unit further powered by Co-Work network capability and user-friendly HMI interface.

#### Cooling Capacity

10kW to 40kW

#### Recommended for

- Data Centres
- Test Labs
- Server Rooms
- Command Centres



### Features & Benefits



#### ELECTRONIC EXPANSION VALVE

Regulates according to the amount of cooling required. For air-cooled units.



#### 2-WAY MODULATING VALVE

Automatic adjustment according to heat load requirement. For chilled water units.



#### CO-WORK™

Enables main board linkage between units for enhanced backup.



#### UPTHROW CONFIGURATION

Preferred for dense environments where raised floor is not available.



#### ACCESSIBLE DESIGN

Front & side panels allow for ease of maintenance.



#### SMART CONTROLLER

Multiple monitoring functions and interfacing via Modbus RTU protocol.

## Specifications

Model (SNC**) (Chilled Water)		20
Condition	RAT 36°C, SAT 24°C, CHW 18°C/26°C	
Total Cooling Capacity (kW)	10.5	
Sensible Cooling Capacity (kW)	10.5	
SHR	1.00	
Air Volume (CMH)	2700	
CHW Flowrate (L/s)	0.31	
Power Input (kW)	0.6	
Condition	RAT 24°C, SAT 12°C, CHW 7°C/12°C	
Total Cooling Capacity (kW)	19.6	
Sensible Cooling Capacity (kW)	17.0	
SHR	0.86	
Air Volume (CMH)	4200	
CHW Flowrate (L/s)	0.94	
Power Input (kW)	1.0	
External Static Pressure (Pa)	75	
Fan Type	EC Plug Fan	
Fan Quantity	1	
CHW Inlet/Outlet	DN25	
Unit Dimension (WxDxH) in mm	750x750x2000	
Unit Weight (kg)	265	
Power Supply	380-415V 3PIN 50/60Hz	
Standard Accessories	Uphrow Configuration, G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor	
Optional Accessories	ATS, Battery Backup, Power Meter, EPIV/Energy Valve, Smoke Detector, Heater	

Model (SNA**V) (Air-Cooled)	07	12	15	20
Condition	RAT 36°C, Condenser 40°C			
Total Cooling Capacity (kW)	13.9	14.3	28.3	30.7
Sensible Cooling Capacity (kW)	12.9	14.3	27.6	30.7
SHR	0.92	1.00	0.97	1.00
Air Volume (CMH)	1900	2200	4200	4900
Power Input (kW)	3.1	4.5	6.0	6.9
EER	4.2	3.2	4.6	4.5
Condition	RAT 24°C, Condenser 40°C			
Total Cooling Capacity (kW)	10.6	11.4	22.3	24.0
Sensible Cooling Capacity (kW)	8.4	9.4	18.0	20.0
SHR	0.79	0.82	0.81	0.83
Air Volume (CMH)	1900	2200	4200	4900
Power Input (kW)	3.1	4.5	6.0	6.9
EER	2.7	2.1	3.0	2.9
External Static Pressure (Pa)	75	75	75	75
Fan Type	EC Plug Fan	EC Plug Fan	EC Plug Fan	EC Plug Fan
Fan Quantity	1	1	1	1
Refrigerant Type	R410A			
Compressor QTY	1			
Compressor Type	Hermetic Scroll			
CU Model	NACD04J	NACD05J	NACD12J	NACD12J
CU Dimension (WxDxH) in mm	790x355x 828	790x355x1228	1320x560x1140	1320x560x1140
Unit Weight (Kg)	70	80	85	85
Refrigerant Piping Size (mm)	12/9.53	12/9.53	16/12	16/12
Unit Dimension (WxDxH) in mm	600x560x1850	600x560x1850	750x750x2000	750x750x2000
Unit Weight (Kg)	170	185	200	210
Power Supply	380-415V 3PIN 50/60Hz			
Standard Accessories	Uphrow Configuration, G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor, Non-inverter Compressor			
Optional Accessories	ATS, Battery Backup, Power Meter, Smoke Detector, Heater			

- 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.