

CRAC R SERIES

RACK IN-ROW PRECISION COOLING

CAPACITY : 20kW to 60kW
MODULAR & CUSTOMIZABLE

Our R SERIES comprises of compact floor standing units engineered for high density loads. Precise in-row cooling placed right at the heat source allows for direct cooling and minimizes hot air & cold air mixing. Efficient airflow paths increase efficiency by up to 20% ensuring better PUE and energy savings.

CANATEC R Series is designed for:

- Data Centres
- Server Rooms



Key Features TAILORED SOLUTIONS



ELECTRONIC EXPANSION VALVES

Automatic adjustment according to heat load requirement.



COLD/HOT AISLE CONFIGURATION

Suited to different operating environments.



CO-WORK™

Enables main board linkage between units for enhanced backup.



R410A REFRIDGERANT

Higher efficiency coolant.



RACK LEVEL EC FAN

Synchronized, horizontal side throw air distribution for low resistance.



UPTHROW OR DOWNTHROW

Different options for air distribution according to requirements.



ACCESSIBLE DESIGN

Front & side panels allow for ease of maintenance.



SMART CONTROLLER

Multiple monitoring functions and BMS connection capabilities.

Model (R**A)		020	025	035	040	050
Cooling Capacity - DB37°C, 30%RH						
Total Cooling Capacity	kW	21.5	26.5	36.1	41.1	50.1
Sensible Cooling Capacity	kW	20.6	25.4	34.7	39.5	48.1
Indoor Fan - Backward Curved EC Fan						
Air volume	m ³ /h	4500	5200	8000	9000	11500
Power	kW	1.36	1.19	2.5	2.5	2.5
Standard External Pressure	Pa	20	20	20	20	20
Scroll Compressor						
Power	kW	6.2	7.8	14.1	14.1	18.2
Compressor Quantity	No.	1	1	1	1	1
Heater - PTC Heater (Optional)						
Power	kW	6	6	9	9	9
Electrode Steam Humidifier (Optional)						
Humidification Amount	kg/h	3	3	3	3	3
Power	kW	2.0	2.0	2.0	2.0	2.0
Air filter - EN799, Efficiency 90%, G4						
Filter Quantity	No.	2	2	2	2	2
Pipe Connection Size						
Liquid Pipe	mm	16	16	16	16	16
Exhaust Pipe	mm	19	22	28	28	28
Humidifier Inlet Pipe	mm	6	6	6	6	6
Drain Pipe	mm	25	25	25	25	25
Outdoor Condenser - Adjustable according to condensing pressure						
Model		NACD12J	NACD18	NACD22	NACD26	NACD30
Condenser Quantity	No.	1	1	1	1	1
Electrical Parameters - Power Supply Parameters - 380V-420V, 50Hz						
Full load current	A	32	33	44	44	50
Noise : Measured at 1.5m from the front of the unit						
Noise	dB(A)	65	69	69	69	69
Dimensions & Weight						
Length x Width x Height	mm	300 x 1200 x 2200			600 x 1200 x 2000	
Weight	kg	300	300	350	380	400

- 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.

Model (R**A)		025	035	040	050
Cooling Capacity - DB37°C, 30%RH - Inlet Water Temp 7°C, Outlet Water Temp 12°C					
Total Cooling Capacity	kW	30.1	41.5	51.8	75.7
Sensible Cooling Capacity	kW	25.3	33.5	48.1	66.4
Chilled Water Flow Rate	l/s	1.4	2.0	2.5	3.6
Pressure Drop	kPa	<60	<80	<55	<80
Cooling Capacity - DB37°C, 30%RH - Inlet Water Temp 10°C, Outlet Water Temp 15°C					
Total Cooling Capacity	kW	26.8	32.7	42.3	59.3
Sensible Cooling Capacity	kW	26.8	32.7	42.3	59.3
Chilled Water Flow Rate	l/s	1.3	1.6	2.0	2.8
Pressure Drop	kPa	<60	<80	<55	<80
Cooling Capacity - DB37°C, 30%RH - Inlet Water Temp 12°C, Outlet Water Temp 18°C					
Total Cooling Capacity	kW	25.2	29.3	36.3	51.9
Sensible Cooling Capacity	kW	25.2	29.3	36.3	51.9
Chilled Water Flow Rate	l/s	1.2	1.4	1.7	2.5
Pressure Drop	kPa	<60	<60	<55	<55
Cooling Capacity - DB38°C, 30%RH - Inlet Water Temp 15°C, Outlet Water Temp 21°C					
Total Cooling Capacity	kW	22.9	26.4	32.9	47.3
Sensible Cooling Capacity	kW	22.9	26.4	32.9	47.3
Chilled Water Flow Rate	l/s	1.1	1.3	1.6	2.3
Pressure Drop	kPa	<60	<60	<55	<70
Cooling Capacity - DB24°C, 50%RH - Inlet Water Temp 7°C, Outlet Water Temp 12°C					
Total Cooling Capacity	kW	15.6	20.5	27.9	35.4
Sensible Cooling Capacity	kW	13.1	17.3	26.0	33.1
Chilled Water Flow Rate	l/s	0.7	1.0	1.2	1.7
Pressure Drop	kPa	<40	<50	<55	<55
Indoor Fan - Backward Curved EC Fan					
Air Volume	m ³ /h	4500	5200	9520	11500
Power	kW	1.2	1.2	3.75	3.75
External Static Pressure	Pa	20	20	20	20
Air Filter - EN799, Efficiency 90%, G4					
Filter Quantity	No.	2	2	1	1
Heater - PTC Heater (Optional)					
Power	kW	6	6	9	9
Current	A	9.1	9.1	13.6	13.6
Electrode Steam Humidification (Optional)					
Humidification Volume	kg/h	3	3	3	3
Power	kW	2.0	2.0	2.0	2.0
Noise - Measured at a distance of 1.5m from front of unit					
Noise	db(A)	65	65	69	69
Chilled Water Valve : Two Way Valve					
2-Way Valve Size	mm	32	32	40	40
Pipe Connection Size					
Chilled Water Inlet Water Pipe	mm	32	32	40	40
Humidifier Inlet Pipe	mm	6	6	6	6
Drain Pipe	mm	25	25	25	25
Electrical Parameters - 380V-420V, 50Hz					
Full Load Current	A	14.7	17.6	24.0	24.0
Dimensions & Weight					
Length x Depth x Height	mm	300 x 1200 x 2200		600 x 1200 x 2200	
Weight	kg	150	155	300	350

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