

CRAC

GUARDIAN SERIES

AIR-COOLED / CHILLED WATER PRECISION COOLING

CAPACITY : 5kW to 40kW
MODULAR & CUSTOMIZABLE

Our GUARDIAN Series combines precise temperature and humidity control into a compact, reliable unit further powered by Co-Work network capability and user-friendly controller interface.

Canatec's GUARDIAN 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 AIR CONFIGURATION

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 (GAD/U**)		05	07	10	12	15	20
Cooling Capacity - DB24°C, 50%RH							
Total Cooling Capacity	kW	5.61	7.50	10.50	12.60	15.50	20.50
Sensible Cooling Capacity	kW	5.10	6.80	9.19	11.40	14.00	18.50
Indoor Fan - Backward Curved EC Fan							
Air Volume	m ³ /h	1750	1900	2800	2800	4200	4900
Power	kW	0.47	0.47	0.57	0.57	0.77	0.77
External Static Pressure	Pa	20	20	20	20	20	20
Fan Quantity	No.	1	1	1	1	1	1
Compressor - Scroll Type							
Power	kW	3.7	4.4	4.4	5.0	6.3	7.5
Compressor Quantity	No.	1	1	1	1	1	1
Heater - PTC Heater (Optional)							
Power	kW	3	3	6	6	6	6
Humidifier - Electrode Steam Humidifier (Optional)							
Humidification Rate	kg/h	3	3	3	3	3	3
Power	kW	2	2	2	2	2	2
Air Filter - EN799, Efficiency 90%, G4							
Size - Upflow	mm	900 x 505 x 20				1125 x 600 x 20	
Size - Downflow	mm	620 x 550 x 20				715 x 720 x 20	
Filter Quantity	No.	1	1	1	1	1	1
Sound Pressure : Measured at a distance of 1.5m from front of unit							
Sound Pressure	db(A)	<60	<60	<60	<60	<60	<60
Pipe Connection Size							
Liquid Pipe	mm	12	12	12	12	16	16
Exhaust Pipe	mm	16	16	16	16	19	19
Humidifier Inlet Pipe	mm	6	6	6	6	6	6
Drain Pipe	mm	25	25	25	25	25	25
Electrical Parameters - 380V-420V, 50Hz							
Full Load Current	A	15.5	16.6	16.6	17.6	19.7	21.6
Dimensions & Weight							
Length x Width x Height	mm	650 x 580 x 1700					
Weight	kg	165	170	170	185	200	210
Outdoor Condenser							
Model	/	NACD04J	NACD04J	NACD05J	NACD05J	NACD12J	NACD12J
Power	/	220V / 1N / 50Hz					
Quantity	No.	1	1	2	2	1	1
Length x Width x Height	mm	790 x 355 x 828		790 x 355 x 1228		1320 x 560 x 1140	

- 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 (GAD/U**)		12	15	20	30	40
Cooling Capacity - DB24						
Total Cooling Capacity	kW	12.24	15.60	19.30	29.10	38.10
Sensible Cooling Capacity	kW	10.71	13.80	16.80	25.80	33.18
Chilled Water Flow Rate	l/s	0.65	0.70	0.90	1.39	1.67
Pressure Drop	kPa	<70	<30	<40	<70	<80
Cooling Capacity - DB2						
Total Cooling Capacity	kW	9.50	16.50	20.10	18.90	25.56
Sensible Cooling C	kW	9.50	13.90	16.90	18.90	25.56
Chilled Water Flow Rate	l/s	0.45	0.80	1.00	1.00	1.36
Pressure Drop	kPa	<70	<30	<40	<70	<70
Cooling Capacity - DB						
Total Cooling Capacity	kW	11.25	14.80	17.90	25.20	33.84
Sensible Cooling Capacity	kW	11.25	14.80	17.90	25.20	33.84
Chilled Water Flow Rate	l/s	0.5	0.7	0.9	1.07	1.50
Pressure Drop	kPa	<70	<30	<30	<70	<70
Indoor Fan - Backward C						
Air Volume	m ³ /h	3150	3800	4900	7800	9950
Power	kW	0.5	0.9	0.9	1.7	1.7
External Static Pressure	Pa	20	20	20	20	20
Fan Quantity	No.	1	1	1	1	1
Heater - PTC Heater (Optional)						
Power	kW	6	6	6	9	9
Humidifier - Electrode Steam Humidifier (Optional)						
Humidification Rate	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						
Size - Upper Air Supply	mm	490 x 697 x 20	692 x 678 x 20		490 x 697 x 20	
Size - Lower Air Supply	mm	558 x 558 x 40	758 x 558 x 40		558 x 558 x 40	
Filter Quantity	No.	1	1	1	2	2
Sound Pressure - Measured at a distance of 1.5m from front of unit						
Sound Pressure	db(A)	<60	<60	<60	<60	<60
Pipe Connection Size						
Chilled Water Inlet Water Pipe	mm	25.4	25.4	25.4	25.4	25.4
Humidifier Inlet Pipe	mm	6	6	6	6	6
Drain Pipe	mm	25	25	25	25	25
Electrical Parameters - 380V-420V, 50Hz						
Full Load Current	A	18.4	18.4	21.9	21.9	21.9
Dimensions & Weight						
Length x Width x Height	mm	650 x 650 x 1700	750 x 750 x 2000		1250 x 650 x 1700	
Weight	kg	130	240	265	240	280

- 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.