

# ME Series



CANATAL - A NAME YOU CAN TRUST FOR ALL YOUR PRECISION AIR CONDITIONING NEEDS

## PRECISION COOLING AIR-COOLED (AC) / WATER COOLED (WC)

**CAPACITY : 25kW to 100kW**  
**MODULAR & CUSTOMIZABLE**

CANATAL ME Series (Air-Cooled or Water Cooled) systems are designed with quality and cutting edge technology for precise cooling and humidity control, to be able to ensure reliability and efficiency in the 24/7 operation within the highly sensitive environment. The compact, modular floor standing units offers higher cooling capacity at a smaller footprint with much flexibility, with advantages of an intelligent network and variable speed control, for better optimization of air volume and energy efficiency.

CANATAL ME Series is specially developed for precise environmental control applications :

- > Data Centres / Server Farms
- > Telecommunications facilities
- > Test labs
- > Command Centers
- > Production facilities



## FEATURES & BENEFITS

- > **Brushless Backward Curved EC Fan** for maintenance free operation
- > **Automatic Variable Speed controls** for optimal air volume control
- > **Symmetrical A/V Coil Designs** with uniformed air return and low resistance
- > **Electronic Expansion Valves** automatically adjust according to heat load requirements
- > **Upthrow or downthrow air configuration.**  
Downthrow underfloor fan for optimized air distribution
- > **Co-Work™** Dynamic Network for co-ordinated and backup controls
- > **Intelligent Microprocessor Controller** with multiple monitoring functions and BMS connection capabilities
- > **R407C or R410A** environmental friendly refrigerant
- > **Modular design and construction** enables easy assembly at site
- > Designed to deliver **greater energy efficiency** using intelligent multi-functional controller
- > **Ease of maintenance** via the front & side panels
- > Option for DC inverter scroll compressor

**TECHNICAL DATA**  
**ME SERIES - AIR-COOLED / WATER COOLED SYSTEM**

Model		0251	0301	0351	0401	0501	0302	0402	0502	0602	0702	0802	0902	1002	1102		
<b>AIR-COOLED - MEAU/D** E(M) – DB24°C / 50%RH</b>																	
Total Cooling Capacity	kW	26.2	30.4	35.3	41.2	50.2	31.8	40.8	51.9	60.4	70.1	80.5	90.9	100.5	108.5		
Sensible Cooling Capacity	kW	25.1	28.5	32.5	37.2	46.1	30.1	38.1	47.2	55.5	65.0	72.5	83.8	92.1	100.5		
<b>WATER-COOLED – MEWU/D** E(M) - Two-way Valve - Condenser Water Inlet Temperature 32°C, Outlet Water Temperature 37°C</b>																	
Flow Rate	l/s	1.8	2.1	2.6	2.6	3.1	2.0	2.7	3.5	4.1	4.8	5.2	5.6	6.2	6.4		
Water Pressure Drop	kPa	60	75	71	71	82	42	48	60	75	81	71	78	82	90		
In/Outlet Pipe	mm	35	42	42	42	54	42	42	54	54	67	67	67	67	67		
<b>Indoor Fan - Backward Curved EC Fan</b>																	
Air Volume	m³/h	7200	9520	11590	11590	12610	8610	11650	13560	16950	19040	20640	23180	25820	27500		
Power	kW	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
External Static Pressure	Pa	75	75	75	75	75	75	75	75	75	75	75	75	75	75		
Fan Quantity	No.	1	1	1	1	1	1	1	1	2	2	2	2	2	2		
<b>Compressor - Scroll Type</b>																	
Power	kW	9.6	11.6	12.8	14.7	17.1	11.3	14.6	19.2	23.1	25.5	29.3	34.1	34.1	34.1		
Compressor Quantity	No.	1	1	1	1	1	2	2	2	2	2	2	2	2	2		
<b>Heater - PTC Heater</b> <span style="float: right;">Note: Maximum power for single system 15kW, dual system 30kW</span>																	
Power	kW	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
<b>Humidifier - Electrode Steam Humidifier</b> <span style="float: right;">Note: The humidification amount is up to 15kg/h</span>																	
Humidification Rate	kg/h	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
Power	kW	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
<b>Pipe Connection Size</b>																	
Liquid Pipe	mm	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
Exhaust Pipe	mm	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
Humidifier Inlet Pipe	mm	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Drain Pipe	mm	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
<b>Electrical Parameters – 380V-420V, 50Hz</b>																	
Full Load Current	A	33	35	40	43	50	47	51	60	65	69	74	88	88	95		
<b>Indoor Unit - Dimensions &amp; Weight</b>																	
Length x Width x Height	mm	880 x 1000 x 1980				1475 x 1000 x 1980				1710 x 1000 x 1980				2375 x 1000 x 1980			
Weight	kg	325	362	390	410	550	515	570	640	645	670	690	855	855	885		
<b>Outdoor Condenser - Model &amp; Quantity</b>																	
Model ( NACD**)	/	18	22	26	26	30	12	18	18	22	26	26	30	30	34		
Condenser Quantity	No.	1	1	1	1	1	1	2	2	2	2	2	2	2	2		
<b>Outdoor Condenser - Technical Parameters</b>																	
Model	Length (mm)	Width (mm)	Height <sup>1</sup> (mm)	Height <sup>2</sup> (mm)	Air Volume (m³/h)	Power (kW)	Weight (kg)	Power Supply									
NACD08	1475	1235	1092	616	9400	0.67	115	220V, 1N~50Hz									
NACD12	1075	1035	1092	616	8600	0.67	83	220V, 1N~50Hz									
NACD18	1475	1235	1092	616	9400	0.67	115	220V, 1N~50Hz									
NACD22	1475	1235	1144	668	13250	0.90	135	380V, 3N~50Hz									
NACD26	2070	1235	1092	616	17000	1.34	165	220V, 1N~50Hz									
NACD30	2070	1235	1104	628	21000	2.00	195	380V, 3N~50Hz									
NACD34	2375	1336	1144	668	25000	2.10	234	380V, 3N~50Hz									

1. Height<sup>1</sup> : Height with floor stand
2. Height<sup>2</sup> : Height without floor stand

- 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.

**CANATEC PTE LTD**

Address : 9 Kaki Bukit Road, #03-11 Singapore 415938  
Tel : +65 6749 9207 | Email : enquiry@canatec.com.sg | Website : www.canatec.com.sg

