

# ME Series



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

## PRECISION COOLING SYSTEMS ME SERIES - DUAL CIRCUIT (AIR COOLED / WATER COOLED - CHILLED WATER)

**CAPACITY : 25kW to 90kW**  
**MODULAR & CUSTOMIZABLE**

CANATAL ME Series Dual Circuit systems provide dual cooling configurations for added redundancy, with options of air cooled or water cooled supported by chilled water configuration. The modular and customizable systems are designed with quality and cutting edge technology for precise cooling and humidity control, ensuring reliability and efficiency for 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
- > **Intelligent Microprocessor Controller** with multiple monitoring functions and BMS connection capabilities
- > **Co-Work™** Dynamic Network for co-ordinated and backup controls
- > **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 - DUAL CIRCUIT SYSTEM (AIR COOLED / WATER COOLED - CHILLED WATER)**

Model		0251	0301	0351	0401	0501	0302	0402	0502	0602	0702	0802	0902	1002
<b>DUAL CIRCUIT – AIRCOOLED/CHILLED WATER - MEDU/D** - DB24°C / 50%RH</b>														
Total Cooling Capacity - Air Cooled(DX)	kW	26.2	31.3	35.3	37.9	46.3	29.3	39.1	47.7	57.6	70.6	75.5	90.5	98.4
Sensible Cooling Capacity - Air Cooled(DX)	kW	25.1	29.3	32.5	34.6	42.4	26.9	36.1	43.5	53.0	65.4	68.9	82.3	86.6
<b>DUAL CIRCUIT - WATER COOLED/CHILLED WATER - MEHU/D-DB24°C / 50%RH</b>														
Total Cooling Capacity - Water Cooled	kW	24.3	29.1	35.9	38.3	46.7	29.5	39.5	48.2	58.1	66.6	76.3	91.4	99.5
Sensible Cooling Capacity - Water Cooled	kW	23.3	27.2	33.1	34.9	42.8	27.2	36.4	44.0	53.5	61.0	69.6	83.1	89.7
<b>CONDENSER WATER - Water Inlet Temperature 32°C, Water Outlet 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
Water Pressure Drop	kPa	60	75	71	71	82	42	48	60	75	81	71	78	82
Water Inlet/Outlet Pipe	mm	35	42	42	42	54	42	42	54	54	67	67	67	67
<b>CHILLED WATER - Water Inlet Temperature 7°C, Water Outlet Temperature 12°C</b>														
Total Cooling Capacity - Chilled Water	kW	31.6	35.8	37.9	40.1	48.1	35.8	40.1	48.1	66.6	77.9	85.1	94.6	101.2
Sensible Cooling Capacity - Chilled Water	kW	27.5	31.1	33.8	35.2	42.6	31.1	35.2	42.6	58.7	69.0	74.4	83.2	90.5
Flow Rate	l/s	1.63	1.84	1.95	2.06	2.47	1.84	2.06	2.47	3.43	4.01	4.38	4.87	5.21
Water Pressure Drop	kPa	52.5	60.0	67.5	78.0	90.0	60.0	78.0	90.0	95.0	98.0	75.0	82.5	90.0
Water Inlet/Outlet Pipe	mm	35	35	42	42	42	42	42	42	54	54	54	54	54
<b>Indoor Fan - Backward Curved EC Fan</b>														
Air Volume	m³/h	7200	8610	9520	10320	12610	8610	10650	13010	16950	18200	20640	23180	25220
Power	kW	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0
Fan Quantity	No.	1	1	1	1	1	1	1	1	2	2	2	2	2
<b>Scroll Compressor</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
Compressor Quantity	No.	1	1	1	1	1	2	2	2	2	2	2	2	2
<b>Heater - PTC Heater</b> <span style="float: right;">Note : The maximum power for single system is 15kW and 30kW for dual system</span>														
Power	kW	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 rate is up to 15kg/h</span>														
Humidifying Rate	kg/h	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
<b>Chilled Water Valve – Two Way Valve</b>														
2-way valve size	mm	32	32	40	40	40	40	40	40	50	50	50	50	50
<b>Pipe Connection Size</b>														
Liquid Pipe	mm	16	16	16	16	16	12	16	16	16	16	19	19	19
Exhaust Pipe	mm	22	22	22	22	22	19	22	22	22	22	22	22	22
Humidifier Inlet Pipe	mm	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
<b>Dimensions and Weight</b>														
Length	mm	1475	1475	1475	1475	1475	1475	1475	1475	1995	1995	2375	2375	2375
Width	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	520	540	560	580	605	625	655	710	795	835	955	995	1015
<b>Electrical Parameters - 380V-420V, 50Hz</b>														
Full Rate Current	A	41.6	44.6	44.6	44.6	53.4	80	100	100	100	100	125	125	125

- 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.

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