

ME Series

CANATEC - MOST PREFERRED PRECISION COOLING SOLUTIONS FOR DATA CENTRES

PRECISION COOLING SYSTEMS ME SERIES - CHILLED WATER (CW)

CAPACITY : 40kW to 180kW
MODULAR & CUSTOMIZABLE

CANATEC ME Series Chilled Water systems provides a wide range of capacities within a small footprint, with quality and cutting edge technology for precise cooling and humidity control, and to be able to ensure reliability and efficiency in the 24/7 operation within the highly sensitive environment. The Co-work™ technology enables superior system networking for co-ordinated and backup controls, resulting in better energy optimization and efficiency. The combination of chilled water and variable speed controls provides for improved EER rating.

CANATEC 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
- > **Fixed or Automatic Variable Speed controls** for optimal air volume control
- > **Symmetrical A/V Coil Designs** allows 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
- > **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 - CHILLED WATER SYSTEM

Model		040	060	080	100	110	120	150	180	190	200
CHILLED WATER - MECU/D**(M) - DB24°C / 50%RH - Chilled Water Inlet Water Temp at 7°C, Outlet Water Temp at 12°C											
Total Cooling Capacity	kW	43.2	62.0	85.5	106.8	122.5	127.5	152.2	180.2	192.3	201.3
Sensible Cooling Capacity	kW	39.2	55.8	77.0	96.1	110.3	116.1	137.0	162.2	173.1	181.2
Chilled Water Flow Rate	L/s	2.2	3.1	4.3	5.4	6.1	7.0	8.4	9.0	9.6	10.0
Pressure Drop	kPa	35	45	53	66	88	92	106	115	118	120
CHILLED WATER - MECU/D**(M) - DB28°C / 40%RH - Chilled Water Inlet Water Temp at 10°C, Outlet Water Temp at 15°C											
Total Cooling Capacity	kW	39.3	56.4	77.8	97.2	111.5	120.1	138.5	164.0	175.0	183.2
Sensible Cooling Capacity	kW	39.3	56.4	77.8	97.2	111.5	120.1	138.5	164.0	175.0	183.2
Chilled Water Flow Rate	L/s	2.0	2.8	4.0	4.9	5.6	6.1	7.0	8.3	8.8	9.2
Pressure Drop	kPa	29	38	44	55	74	74	73	96	99	100
Indoor Fan - Backward Curved EC Fan											
Air Volume	m³/h	12800	13500	25000	26500	27500	30200	38500	41500	42000	43500
Power Per Fan	kW	3.2	3.6	5.0	6.0	6.0	7.0	10.5	10.5	10.5	10.5
External Static Pressure	Pa	75	75	75	75	75	75	75	75	75	75
Fan Quantity	No.	1	1	2	2	2	2	3	3	3	3
Heater - PTC Heater								Note: The maximum heating capacity is 30kW			
Power	kW	6	6	6	6	6	6	6	6	6	6
Humidifier - Electrode Steam Humidifier								Note : The humidification rate is up to 15kg/h			
Humidification Rate	kg/h	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
Chilled Water Valve - Two Way Valve											
2-Way valve size	mm	35	42	42	54	54	54	54	67	67	67
Pipe Connection Size											
Chilled Water Inlet / Outlet Pipe	mm	42	42	54	54	54	54	54	67	67	67
Humidifier Inlet Pipe	mm	6	6	6	6	6	6	6	6	6	6
Condensate Drain Pipe	mm	25	25	25	25	25	25	25	25	25	25
Electrical Parameters – 380V-420V, 50Hz											
Full Load Current	A	24.0	24.6	28.4	30.2	30.2	32.2	34.3	36.1	36.5	38.8
Cable Specification	mm²	10	10	10	10	25	25	25	25	25	25
Dimensions & Weight											
Length	mm	925	925	1820	1820	1820	1820	2530	2530	2700	2700
Width	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	380	410	510	550	580	610	650	700	780	810

- 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.