

## General Data - MCM-DW

MODEL		MCM020DW	MCM025DW	
NOMINAL TOTAL COOLING CAPACITY	Btu/h	17700	20800	
	W	5190	6100	
NOMINAL SENSIBLE COOLING CAPACITY	Btu/h	13700	15000	
	W	4000	4400	
NOMINAL TOTAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)	Btu/h	22000	25900	
	W	6450	7590	
NOMINAL AIR FLOW	HIGH	l/s / CFM	264 / 560	297 / 630
	MEDIUM	l/s / CFM	238 / 505	293 / 620
	LOW	l/s / CFM	189 / 400	262 / 555
UNIT DIMENSION	HEIGHT	mm/in	214 / 8.4	
	WIDTH	mm/in	1214 / 47.8	
	DEPTH	mm/in	670 / 26.4	
PACKING DIMENSION	HEIGHT	mm/in	301 / 11.9	
	WIDTH	mm/in	1311 / 51.6	
	DEPTH	mm/in	760 / 29.9	
UNIT WEIGHT	kg/lb	43 / 94.8		
SOUND PRESSURE LEVEL ( H/M/L )	dBA	50 / 47 / 40	54 / 53 / 50	
NOMINAL WATER FLOW RATE	USGPM	3.92	4.62	
	LITRES/M	14.84	17.49	
HEAD LOSS (COOLING)	kPa / psi	46 / 6.6	56 / 8.1	
HEAD LOSS (HEATING) : 50°C	kPa / psi	39 / 5.7	48 / 7	
MAX. WORKING PRESSURE	kPa / psi	1608 / 233		
SURFACE AIR VELOCITY	m/s	1.39	1.56	
	ft/min	273.0	307.2	
CONNECTION	3/4" BSP FEMALE ADAPTOR			
CONTROL	ROOM TEMPERATURE	MICRO-COMPUTER CONTROLLED THERMOSTAT		
	AIR DISCHARGE	AUTOMATIC LOUVER (UP& DOWN)		
	OPERATION	LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL		
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4"		

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 & ISO13253.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - ENTERING AIR TEMP. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, ENTERING WATER TEMP. : 7°C (44.6°F), LEAVING WATER TEMP. : 12°C (53.6°F)

b) HEATING - ENTERING AIR TEMP. : 20°C (68°F) DB, ENTERING WATER TEMP. : 50°C (122°F), WATER FLOW RATE BASED ON COOLING CYCLE.

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. MCM020/025DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE VERTICAL CENTRE LINE OF THE UNIT. MCM030/040/050DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE VERTICAL CENTRE LINE OF THE UNIT (JIS B 8615)

## General Data - MCM-DW

MODEL		MCM030DW	
NOMINAL TOTAL COOLING CAPACITY	Btu/h	24600	
	W	7210	
NOMINAL SENSIBLE COOLING CAPACITY	Btu/h	17700	
	W	5190	
NOMINAL TOTAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)	Btu/h	28000	
	W	8210	
NOMINAL AIR FLOW	HIGH	l/s / CFM	329 / 697
	MEDIUM	l/s / CFM	324 / 687
	LOW	l/s / CFM	307 / 650
UNIT DIMENSION	HEIGHT	mm/in	249 / 9.8
	WIDTH	mm/in	1214 / 47.8
	DEPTH	mm/in	670 / 26.4
PACKING DIMENSION	HEIGHT	mm/in	354 / 13.9
	WIDTH	mm/in	1376 / 54.2
	DEPTH	mm/in	766 / 30.2
UNIT WEIGHT	kg/lb	45 / 99.2	
SOUND PRESSURE LEVEL ( H/M/L )	dBA	51 / 50 / 48	
NOMINAL WATER FLOW RATE	USGPM	5.46	
	LITRES/M	20.67	
HEAD LOSS (COOLING)	kPa / psi	49 / 7.2	
HEAD LOSS (HEATING) : 50°C	kPa / psi	43 / 6.2	
MAX. WORKING PRESSURE	kPa / psi	1608 / 233	
SURFACE AIR VELOCITY	m/s	1.37	
	ft/min	270.3	
CONNECTION	3/4" BSP FEMALE ADAPTOR		
CONTROL	ROOM TEMPERATURE	MICRO-COMPUTER CONTROLLED THERMOSTAT	
	AIR DISCHARGE	AUTOMATIC LOUVER (UP& DOWN)	
	OPERATION	LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL	
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4"	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - ENTERING AIR TEMP. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, ENTERING WATER TEMP. : 7°C (44.6°F), LEAVING WATER TEMP. : 12°C (53.6°F)

b) HEATING - ENTERING AIR TEMP.: 20°C (68°F) DB, ENTERING WATER TEMP. : 50°C (122°F), WATER FLOW RATE BASED ON COOLING CYCLE.

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. MCM020/025DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE VERTICAL CENTRE LINE OF THE UNIT. MCM030/040/050DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE VERTICAL CENTRE LINE OF THE UNIT (JIS B 8615)

## General Data - MCM-DW

MODEL			MCM040DW	MCM050DW
NOMINAL TOTAL COOLING CAPACITY	Btu/h		31200	45000
	W		9140	13190
NOMINAL SENSIBLE COOLING CAPACITY	Btu/h		25600	31400
	W		7500	9200
NOMINAL TOTAL HEATING CAPACITY (ENTERING WATER TEMP. = 50°C)	Btu/h		42300	51500
	W		12400	15090
NOMINAL AIR FLOW	HIGH	l/s / CFM	451 / 956	500 / 1059
	MEDIUM	l/s / CFM	428 / 908	483 / 1023
	LOW	l/s / CFM	419 / 889	451 / 956
UNIT DIMENSION	HEIGHT	mm/in	249 / 9.8	
	WIDTH	mm/in	1714 / 67.5	
	DEPTH	mm/in	670 / 26.4	
PACKING DIMENSION	HEIGHT	mm/in	354 / 13.9	
	WIDTH	mm/in	1876 / 73.9	
	DEPTH	mm/in	766 / 30.2	
UNIT WEIGHT		kg/lb	70 / 154.3	
SOUND PRESSURE LEVEL ( H/M/L )		dBA	54 / 53 / 52	54 / 53 / 52
NOMINAL WATER FLOW RATE		USGPM	6.91	9.99
		LITRES/M	26.16	37.82
HEAD LOSS (COOLING)		kPa / psi	24 / 3.5	38 / 5.5
HEAD LOSS (HEATING) : 50°C		kPa / psi	22 / 3.1	32 / 4.6
MAX. WORKING PRESSURE		kPa / psi	1608 / 233	
SURFACE AIR VELOCITY		m/s	1.22	1.35
		ft/min	240.2	266.2
CONNECTION	3/4" BSP FEMALE ADAPTOR			
CONTROL	ROOM TEMPERATURE	MICRO-COMPUTER CONTROLLED THERMOSTAT		
	AIR DISCHARGE	AUTOMATIC LOUVER (UP& DOWN)		
	OPERATION	LCD WIRELESS MICRO-COMPUTER REMOTE CONTROL		
CONDENSATE DRAIN SIZE		mm/in	19.05 / 3/4"	

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b) HEATING - ENTERING AIR TEMP. : 20°C (68°F) DB, ENTERING WATER TEMP. : 50°C (122°F), WATER FLOW RATE BASED ON COOLING CYCLE.

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. MCM020/025DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE VERTICAL CENTRE LINE OF THE UNIT. MCM030/040/050DW : POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE VERTICAL CENTRE LINE OF THE UNIT (JIS B 8615)