










MTP-10-Series-COMMERCIAL Air to Water Heat Pump-V1

Model		MAM010B	MAM018B	MAM021B	MAM036B	MAM045B
Power Supply		380V/3N~ 50Hz	380V/3N~ 50Hz	380V/3N~ 50Hz	380V/3N~ 50Hz	380V/3N~ 50Hz
Type of Refrigerant	--	R407c (R410a)	R407c (R410a)	R407c (R410a)	R407c (R410a)	R407c (R410a)
Rated Heating Output 1)	kW	10	18	21.5	36	45
Coefficient of Performance (COP) 1)		4.06	4.1	4	4	4
Rated Input Power 1)	kW	2.46	4.4	5.38	9	11.25
Rated Running Current 1)	MAMp	4.4	7.8	11.5	17	19.5
Max. Running Current	MAMp	7.4	14	16	25	30
No. of Compressor	unit	1	1	1	2	2
Brand/Type of Compressor		Scroll	Scroll	Scroll	Scroll	Scroll
Min/Max Operating Outdoor Temperature	°C	-7 to 43	-7 to 43	-7 to 43	-7 to 43	-7 to 43
Circulation Water Flow (ΔT=5°C)	m³/h	1.72	3.1	4.3	6.2	7.8
Hot Water Production Volume 1)	Ltrs/h	210	380	490	774	968
Rated Water Outlet Temperature 2)	°C	55	55	55	55	55
Min/Max. Water Outlet Temperature	°C	30 to 60	30 to 60	30 to 60	30 to 60	30 to 60
Water Pressure Drop	kPa	45	60	60	50	50
Water In/Out Connection Size	inch	3/4" -F	1"-F	1-1/4" -F	1-1/2" -F	1-1/2" -F
Type of Controller		Wired Controller Panel with Display and Buttons				
Expansion Valve 5)		EEV	EEV	EEV	EEV	EEV
Way of Defrost		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
Type of Water Heat Exchanger (Condenser)		Copper, Tube-in-Shell Heat Exchanger				
Type of Air Heat Exchanger (Evaporator)		Hydrophilic Aluminium Fin-Tube Heat Exchanger				
Air Discharge Direction		Vertical	Vertical	Vertical	Vertical	Vertical
No. of Fan Motor		1	1	1	2	2
Protection Grade		IPx4	IPx4	IPx4	IPx4	IPx4
Noise (at distance 1m)	dB(A)	56	56	59	60	68
Dimension (WxDxH)	mm	750x690x870	750x690x1070	830x793x1084	1500x690x1070	1500x690x1370
Packing Dimension (WxDxH, Plywood)	mm	860x810x1020	880x810x1230	930x870x1240	1680x780x1230	1710x850x1550
Net Weight	kg	110	130	150	240	270
Gross Weight (Plywood/Solid Wood)	kg	130	160	185	300	335
Picture						

Model		MAM065B	MAM075B	MAM090B	MAM120B
Power Supply		380V/3N~ 50Hz	380V/3N~ 50Hz	380V/3N~ 50Hz	380V/3N~ 50Hz
Type of Refrigerant	--	R407c (R410a)	R407c (R410a)	R407c (R410a)	R410a
Rated Heating Output 1)	kW	65	75	90	120
Coefficient of Performance (COP) 1)		4	4	4	4.1
Rated Input Power 1)	kW	16.12	18.75	22	29.3
Max. Input Power 2)	kW	?	?	?	41.5
Rated Running Current 1)	MAMp	30	30	40	53
Max. Running Current	MAMp	45	45	60	75
No. of Compressor	unit	3	3	2	2
Brand/Type of Compressor		Scroll	Scroll	Scroll	Scroll
Charged Refrigerant x Compressor Qty	kg	7.5x2	7.5x2	8.5'2	9.5x2
Min/Max Refrigeration Working Pressure	MPa	0.05/3	0.05/3	0.05/3	1.5/45
Min/Max Operating Outdoor Temperature	°C	-7 to 43	-7 to 43	-7 to 43	-7 to 43
Circulation Water Flow (ΔT=5°C)	m³/h	12.4	12.4	15.5	20.6
Hot Water Production Volume 1)	Ltrs/h	1505	1505	1953	2580
Heat-up time for 1000Ltrs 1)	hour	0.07	0.07	?	0.43
Rated Water Outlet Temperature 2)	°C	55	55	55	55
Min/Max. Water Outlet Temperature	°C	30 to 60	30 to 60	30 to 60	30 to 60
Water Pressure Drop	kPa	70	70	70	70
Suggest Size of Water Tank 4)	Ltrs	?	?	?	?
Water In/Out Connection Size	inch	DN65-Flange	DN65-Flange	DN65-Flange	DN100-Flange
Total Hardness of Clean Water 3)	ppm	<50	<50	<50	<50
Max. Operating Water Pressure 4)	MPa	1	1	1	1
Type of Heat Pump		Air to Water		Air to Water	Air to Water
Type of Controller					
Expansion Valve 5)		EEV	EEV	TEV	EEV
Way of Defrost		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
Type of Water Heat Exchanger (Condenser)		Copper, Tube-in-Shell Heat Exchanger			
Type of Air Heat Exchanger (Evaporator)		Hydrophilic Aluminium Fin-Tube Heat Exchanger			
Fin Space of Evaporator	mm	2	2	2	2
Air Discharge Direction		Vertical	Vertical	Vertical	Vertical
No. of Fan Motor		3	2	2	2
Protection Grade		IPx4	IPx4	IPx4	IPx4
Noise (at distance 1m)	dB(A)	72	72	72	72
Dimension (WxDxH)	mm	2095x1005x1855	2095x1005x1855	2020x990x1950	2100x1100x2180
Packing Dimension (WxDxH, Plywood)	mm	2195x1105x1955	2195x1105x1955	2120x1090x1990	2250x1260x2260
Net Weight	kg	700	700	750	780
Gross Weight (Plywood/Solid Wood)	kg	750	750	830	870
Picture					

Note:
The above designs and specifications might be changed without prior notice for product improvement