



Heat Pumps

MB5 Series

- SCOP at 35°C leaving water temperature up to 4.97
- COP at 35°C leaving water temperature up to 5.06
- 60°C hot water is guaranteed (outdoor temperature -15°C)
- Wide heating operation range (ambient temperature: -25~35°C)
- Built-in expansion vessel, flow switch, safety valve for easy installation
- 5-inch colorful controller with full touch screen
- Refrigerant cooling for compressor driver module
- Double EEV design for better heating under low outdoor temperature
- Max. 8 units connectible into one system for larger capacity demands



Model MB5 5-7-9kW

M505V3 - M5057V3 - M5059V3



Model MB5 11-14-16kW

M511 - M514 - M516 S/TV3

Features



A+++/A++



Max 60°C hot water



Climate curve



2 zone control



Auto mode



Smart grid



Modbus



DHW tank solar thermal control



Pool heating



Anti-freezing



Eco-friendly Refrigerant R32

Specifications

Model		M505V3	M507V3	M509V3	M511SV3	M514SV3	M516SV3	M511TV3	M514TV3	M516TV3	
Heating (LWT 35°C/ OAT 7°C) Power input kW	Capacity kW	5.00	7.00	9.00	11.00	14.00	16.00	11.00	14.00	16.00	
	Power Input kW	0.99	1.40	1.84	2.24	2.95	3.53	2.24	2.93	3.53	
	COP	-	5.06	5.00	4.90	4.90	4.75	4.53	4.90	4.75	4.53
Heating (LWT 55°C/ OAT 7°C) Power input kW	Capacity kW	5.00	7.00	8.50	10.50	13.50	15.20	10.50	13.50	15.20	
	Power Input kW	1.69	2.41	3.09	3.50	4.82	5.53	3.50	4.82	5.53	
	COP	-	2.95	2.90	2.75	3.00	2.80	2.75	3.00	2.80	2.75
Space heating average climate water outlet 35°C	SCOP	-	4.97	4.95	4.70	4.65	4.55	4.70	4.65	4.55	
	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
Space heating average climate water outlet 55°C	SCOP	-	3.52	2.38	3.34	3.40	3.40	3.40	3.45	3.40	
	Energy class	-	A++	A++	A++	A++	A++	A++	A++	A++	
Cooling (LWT 18°C/ OAT 35°C) Power input kW	Capacity kW	5.00	7.00	8.00	10.00	13.50	15.20	10.00	13.50	15.20	
	Power Input kW	1.02	1.44	1.86	2.27	3.14	3.80	2.27	3.14	3.80	
	EER	-	4.90	4.85	4.30	4.40	4.30	4.00	4.40	4.30	4.00
Cooling (LWT 7°C/OAT 35°C) Power input kW	Capacity kW	5.00	7.00	8.00	1w0.00	15.20	14.00	10.00	12.00	14.00	
	Power Input kW	1.56	2.19	2.76	3.23	4.21	5.28	3.23	4.21	5.28	
	EER	-	3.20	3.20	2.90	3.10	2.85	2.65	3.10	2.85	2.65
Outdoor operating temperature range	Heating °C	-25-35									
	Cooling °C	10-48									
Leaving water temperature range	Heating °C	25-60									
	Cooling °C	5-25									
Water flow rate	L/min	14.3	20.1	25.8	31.5	40.1	45.9	31.5	40.1	45.9	
Water pipe connection	Inlet/Outlet °C	R 1									
	Quantity	1									
Compressor	Type	DC inverter twin rotary									
		R32									
Refrigerant	kg/T	1.3/0.88	1.3/0.88	1.4/0.95	1.8/1.22	2.5/1.69	2.5/1.69	1.8/1.22	2.5/1.69	2.5/1.69	
		790×1250×380				880×1380×460					
Net dimension (HxWxD)	mm	1017×1390×550				1102×1525×630					
Packing dimension (HxWxD)	mm	81/109				108/139					
Net/Gross weight	kg	81/109	81/109	108/139	108/139	117/148	117/148	108/139	117/148	117/148	
Sound power level	dB	60	61	63	63	63	63	63	63	63	
Power supply	-V/Hz	220-240/1/50							380-415/3/50		
Max running current	A	14	14	16	20	32	32	10	14	14	
Recommended circuit breaker	A	20	20	20	25	40	40	16	20	20	
Accessories	Wired controller	/ WC5-101DBT (Standard)									
	DHW PCB	/ ATW-A02 (Optional)									
	Filter	/ Y shape 40 mesh (Standard)									