

1 Specifications

MHC-V5W/D2N1 / MHC-V7W/D2N1 / MHC-V9W/D2N1

Table 2-1.1: MHC-V5(7, 9)W/D2N1 specifications¹

kW			5	7	9
Model name			MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V9W/D2N1
Power supply		V/Ph/H	220-240/1/50		
Heating ²	Capacity	kW	4.58	6.55	8.64
	Rated input	kW	0.97	1.45	2.01
	COP		4.72	4.52	4.30
Heating ³	Capacity	kW	4.67	6.69	9.19
	Rated input	kW	1.43	2.05	2.63
	COP		3.27	3.26	3.49
Cooling ⁴	Capacity	kW	4.55	6.45	8.35
	Rated input	kW	1.00	1.47	2.10
	EER		4.55	4.40	3.97
Cooling ⁵	Capacity	kW	4.55	6.71	8.06
	Rated input	kW	1.55	2.57	3.51
	EER		2.94	2.61	2.30
Seasonal space heating energy efficiency class ⁶	LWT at 35°C		A++	A++	A++
	LWT at 55°C		A++	A++	A++
SCOP ⁶	LWT at 35°C		4.47	4.53	4.16
	LWT at 55°C		3.29	3.29	3.25
SEER ⁶	LWT at 7°C		3.20	3.39	4.52
	LWT at 18°C		4.43	4.87	5.69
MOP		A	25	25	25
MCA		A	14	14	14
Compressor	Type		Twin rotary DC inverter		
	Poles		4	4	4
	Speed range	rps	10-110	10-110	10-110
	Capacity at	kW	6.94	6.94	6.94
	Input at 60rps	kW	2.15	2.15	2.15
	Max. heating	Hz	96	96	96
	Max. cooling	Hz	88	88	88
Outdoor fan	Motor type		Brushless DC motor		
	Number of fans		1	1	1
	Air flow	m ³ /h	3050	3050	3050
Air side heat exchanger	Type		Finned tube		
	Number of rows		2	2	2
	Number of circuits		8	8	9
Water side heat exchanger			Plate type		
Water pump	Pump head	m	6.0	6.0	6.0
Expansion tank	Volume	L	2.0	2.0	2.0

Abbreviations:

MOP: Maximum overcurrent protection

MCA: Minimum circuit amps

DHW: Domestic hot water

EWT: Entering water temperature

LWT: Leaving water temperature

Notes:

1. Relevant EU standards and legislation: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.
2. Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
3. Outdoor air temperature 7°C DB, 85% R.H.; EWT 40°C, LWT 45°C.
4. Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.
5. Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C.
6. Seasonal space heating energy efficiency class tested in average climate conditions.
7. Sound power level tested in average climate conditions, outdoor air temperature 7°C DB, 6°C DB; EWT 47°C, LWT 55°C.

Table continued on next page ...

Table 2-1.1: MHC-V5(7, 9)W/D2N1 specifications¹ (continued)

kW			5	7	9
Model name			MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V9W/D2N1
Refrigerant	Type		R410A		
	Charge	kg	2.4	2.4	2.4
Throttle type			Electronic expansion valve		
Backup electric heater	Standard	kW	-	-	-
	Optional	kW	3.0	3.0	3.0
	Output steps		1	1	1
	Power supply	V/Ph/H	220-240/1/50		
Sound power level ⁷		dB(A)	61	65	68
Net dimensions (W×H×D)		mm	1210×945×402		
Packed dimensions (W×H×D)		mm	1500×1140×450		
Net/Gross weight		kg	99/117	99/117	99/117
Water piping connections		mm	Φ25 Male BSP		
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	2	2	5.5
Operating temperature range	Cooling	°C	-5 to 46		
	Heating	°C	-20 to 35		
	DHW	°C	-20 to 43		
LWT range	Cooling	°C	5 to 25		
	Heating	°C	25 to 60		
	DHW	°C	40 to 60		

Abbreviations:

MOP: Maximum overcurrent protection
MCA: Minimum circuit amps
DHW: Domestic hot water
EWT: Entering water temperature
LWT: Leaving water temperature

Notes:

1. Relevant EU standards and legislation: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.
2. Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
3. Outdoor air temperature 7°C DB, 85% R.H.; EWT 40°C, LWT 45°C.
4. Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.
5. Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C.
6. Seasonal space heating energy efficiency class tested in average climate conditions.
7. Sound power level tested in average climate conditions, outdoor air temperature 7°C DB, 6°C DB; EWT 47°C, LWT 55°C.