MHC-V10W/D2N1 / MHC-V12W/D2N1 / MHC-V14W/D2N1 / MHC-V16W/D2N1

Table 2-1.2: MHC-V10(12, 14, 16)W/D2N1 specifications[1]

kW			10	12	14	16
Model name			MHC-V10W/D2N1	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V16W/D2N1
Power supply		V/Ph/Hz	220-240/1/50			
Heating[2]	Capacity	kW	10.43	12.17	14.76	16.33
	Rated input	kW	2.28	2.73	3.4	3.9
	COP		4.57	4.46	4.34	4.19
Heating[3]	Capacity	kW	10.17	12.58	14.08	16.12
	Rated input	kW	3.08	3.86	4.47	5.22
	COP		3.30	3.26	3.15	3.09
Cooling[4]	Capacity	kW	10.25	12.19	14.61	14.82
	Rated input	kW	2.06	2.65	3.32	3.66
	EER		4.98	4.6	4.4	4.05
Cooling[5]	Capacity	kW	10.44	12.21	12.95	13.72
	Rated input	kW	3.28	4.17	4.53	5.16
	EER		3.18	2.93	2.86	2.66
Seasonal space heating energy efficiency class[6]	LWT at 35°C		A++			
	LWT at 55°C		A++			
SCOP[6]	LWT at 35°C		4.12	4.21	4.39	4.26
	LWT at 55°C		3.25	3.25	3.25	3.20
SEER[6]	LWT at 7°C		4.49	4.42	4.29	4.01
	LWT at 18°C		6.22	6.64	6.18	5.88
MOP		A	40	40	40	40
MCA		A	28	28	28	28
Compressor	Type		Twin rotary DC inverter			
	Poles		6	6	6	6
	Speed range	rps	12-120	12-120	12-120	12-120
	Capacity at 60rps	kW	12.96	12.96	12.96	12.96
	Input at 60rps	kW	3.51	3.51	3.51	3.51
	Max. heating	Hz	92	92	92	92
	Max. cooling	Hz	78	78	78	78
Outdoor fan	Motor type		Brushless DC motor			
	Number of fans		2	2	2	2
	Air flow	m^3/h	6250	6250	6250	6250
Air side heat exchanger	Type		Finned tube			
	Number of rows		2	2	2	2
	Number of circuits		9	9	9	9
Water side heat exchanger			Plate type			
Water pump	Pump head	m	7.5	7.5	7.5	7.5
Expansion tank	Volume	L	5.0	5.0	5.0	5.0

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 2-1.2: MHC- V10(12, 14, 16)W/D2N1 specifications[1] (continued)

kW			10	12	14	16
Model name			MHC-V10W/D2N1	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V16W/D2N1
Refrigerant	Type		R410A			
	Charge	kg	3.6	3.6	3.6	3.6
Throttle type			Electronic expansion valve			
Backup electric heater	Standard internal	kW	3.0	3.0	3.0	3.0
	Optional	kW	4.5	4.5	4.5	4.5
	Output steps		2	2	2	2
	Power supply	V/Ph/Hz	220-240/1/50			
Sound power level[7]		dB(A)	66	67	71	71
Net dimensions (W×H×D)		mm	1404×1414×405			
Packed dimensions (W×H×D)		mm	1475×1580×440			
Net/Gross weight		kg	162/183	162/183	162/183	162/183
Water piping connections		mm	Φ32 Male BSP			
Safety valve set pressure		MPa	0.3	0.3	0.3	0.3
Total water volume		L	5.5	5.5	5.5	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.