

MHC-V12W/D2RN1 / MHC-V14W/D2RN1 / MHC-V16W/D2RN1

 Table 2-1.3: MHC- V12(14, 16)W/D2RN1 specifications¹

kW			12	14	16
Model name			MHC-	MHC-	MHC-V16W/D2RN1
Power supply		V/Ph/H	380-415/3/50		
Heating ²	Capacity	kW	12.37	14.10	16.30
	Rated input	kW	2.76	3.26	3.88
	COP		4.48	4.33	4.20
Heating ³	Capacity	kW	12.02	14.11	16.06
	Rated input	kW	3.72	4.46	5.23
	COP		3.23	3.16	3.07
Cooling ⁴	Capacity	kW	12.64	14.03	15.1
	Rated input	kW	2.75	3.26	3.78
	EER		4.60	4.30	4.00
Cooling ⁵	Capacity	kW	12.58	13.8	15.26
	Rated input	kW	4.32	5.14	6.41
	EER		2.91	2.68	2.38
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		4.45	4.27	4.17
	LWT at 55°C		3.25	3.27	3.22
SEER ⁶	LWT at 7°C		4.39	4.46	4.52
	LWT at 18°C		5.78	5.72	6.19
MOP		A	40	40	40
MCA		A	28	28	28
Compressor	Type		Twin rotary DC inverter		
	Poles		6	6	6
	Speed range	rps	12-120	12-120	12-120
	Capacity at	kW	12.96	12.96	12.96
	Input at 60rps	kW	3.51	3.51	3.51
	Max. heating	Hz	92	92	92
	Max. cooling	Hz	78	78	78
Outdoor fan	Motor type		Brushless DC motor		
	Number of fans		2	2	2
	Air flow	m ³ /h	6250	6250	6250
Air side heat exchanger	Type		Finned tube		
	Number of rows		2	2	2
	Number of circuits		9	9	9
Water side heat exchanger			Plate type		
Water pump	Pump head	m	7.5	7.5	7.5
Expansion tank	Volume	L	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.

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Table 2-1.3: MHC- V12(14, 16)W/D2RN1 specifications¹ (continued)

kW			12	14	16
Model name			MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
Refrigerant	Type		R410A		
	Charge	kg	3.6	3.6	3.6
Throttle type			Electronic expansion valve		
Backup electric heater	Standard	kW	4.5	4.5	4.5
	Optional	kW	-	-	-
	Output steps		1	1	1
	Power supply	V/Ph/H	380-415/3/50		
Sound power level ⁷		dB(A)	68	71	72
Net dimensions (W×H×D)		mm	1404×1414×405	1404×1414×405	1404×1414×405
Packed dimensions (W×H×D)		mm	1475×1580×440	1475×1580×440	1475×1580×440
Net/Gross weight		kg	177/198	177/198	177/198
Water piping connections		mm	Φ32 Female BSP	Φ32 Female BSP	Φ32 Female BSP
Safety valve set pressure		MPa	0.3	0.3	0.3
Total water volume		L	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		

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MCA: Minimum circuit amps
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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.