

Model MHC-V12WD2RN7-***

Model name	MHC-V12WD2RN7-***
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.0 kW	12.0 kW
El input	2.50 kW	3.87 kW
COP	4.80	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	141 %
Prated	12.1 kW	12.0 kW
SCOP	4.67	3.62
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	10.75 kW	10.58 kW
COP Tj = -7°C	2.78	2.23
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	6.73 kW	6.59 kW
COP Tj = +2°C	4.55	3.52
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.23 kW	4.78 kW
COP Tj = +7°C	6.89	4.99

Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.34 kW	5.59 kW
COP Tj = 12°C	7.41	6.41
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.75 kW	10.58 kW
COP Tj = Tbiv	2.78	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.77 kW	10.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	2.05
WTOL	75.00 °C	75.00 °C
Poff	9.00 W	9.00 W
PTO	14.00 W	14.00 W
PSB	9.00 W	9.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.33 kW	1.95 kW
Annual energy consumption Qhe	5352 kWh	6843 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	162 %	127 %
Prated	11.5 kW	10.8 kW
SCOP	4.13	3.26
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	7.11 kW	6.76 kW
COP Tj = -7°C	3.47	2.72
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.33 kW	4.14 kW
COP Tj = +2°C	5.18	4.05
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.08 kW	5.00 kW
COP Tj = +7°C	6.46	5.15
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.15 kW	5.01 kW
COP Tj = 12°C	6.84	5.66
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	9.39 kW	8.84 kW
COP Tj = Tbiv	2.49	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	6.84 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.04	1.52
WTOL	75.00 °C	75.00 °C
Poff	9.00 W	9.00 W
PTO	14 W	14 W
PSB	9.00 W	9.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.80 kW	3.96 kW
Annual energy consumption Qhe	6869.00 kWh	8197.00 kWh
Pdh Tj = -15°C (if TOL	9.39	8.84
COP Tj = -15°C (if TOL	2.49	1.98
Cdh Tj = -15 °C	0.9	0.9

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	232 %	174 %
Prated	11.70 kW	12.40 kW
SCOP	5.90	4.45
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.58 kW	11.41 kW
COP Tj = +2°C	3.30	2.55
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.57 kW	7.85 kW
COP Tj = +7°C	5.78	3.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.17 kW	5.47 kW
COP Tj = 12°C	6.98	5.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.57 kW	7.85 kW
COP Tj = Tbiv	5.78	3.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.58 kW	11.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.30	2.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	14 W	14 W
PSB	9 W	9 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.12 kW	0.99 kW
Annual energy consumption Qhe	2651 kWh	3724 kWh