

Model MHC-V14WD2RN7-***

Model name	MHC-V14WD2RN7-***
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	14.0 kW	14.0 kW
El input	3.11 kW	4.67 kW
COP	4.50	3.00

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	182 %	141 %
Prated	13.7 kW	13.0 kW
SCOP	4.63	3.61
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	12.08 kW	11.47 kW
COP Tj = -7°C	2.66	2.15
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.55 kW	7.29 kW
COP Tj = +2°C	4.45	3.50
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.25 kW	4.85 kW
COP Tj = +7°C	7.06	5.10

Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.23 kW	5.60 kW
COP Tj = 12°C	7.46	6.46
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.08 kW	11.47 kW
COP Tj = Tbiv	2.66	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.62 kW	10.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.53	2.02
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	2.08 kW	2.03 kW
Annual energy consumption Qhe	6110 kWh	7438 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 %	126 %
Prated	12.6 kW	12.0 kW
SCOP	4.13	3.23
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	7.83 kW	7.39 kW
COP Tj = -7°C	3.35	2.67
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.77 kW	4.56 kW
COP Tj = +2°C	5.37	4.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.08 kW	4.99 kW
COP Tj = +7°C	6.50	5.20
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.15 kW	5.06 kW
COP Tj = 12°C	6.85	5.81
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.31 kW	9.77 kW
COP Tj = Tbiv	2.39	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.57 kW	7.63 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.01	1.53
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	4.03 kW	4.37 kW
Annual energy consumption Qhe	7513.00 kWh	9168.00 kWh
Pdh Tj = -15°C (if TOL	10.31	9.77
COP Tj = -15°C (if TOL	2.39	1.95
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	231.00 %	174.00 %
Prated	12.7 kW	14.1 kW
SCOP	5.85	4.43
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	12.41 kW	12.05 kW
COP Tj = +2°C	3.21	2.48
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.19 kW	9.11 kW
COP Tj = +7°C	5.67	3.98
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.17 kW	5.49 kW
COP Tj = 12°C	7.02	6.01
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.19 kW	9.11 kW
COP Tj = Tbiv	5.67	3.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.41 kW	12.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.21	2.48
WTOL	75.00 °C	75.00 °C
Poff	9.00 W	9.00 W
PTO	14.00 W	14.00 W
PSB	9 W	9 W
PCK	0.00 W	0.00 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.29 kW	2.21 kW
Annual energy consumption Q _{he}	2897.00 kWh	4256.00 kWh