

Model MHC-V16WD2RN7-***

Model name	MHC-V16WD2RN7-***
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	15.0 kW	15.0 kW
El input	3.41 kW	5.26 kW
COP	4.40	2.85

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	139 %
Prated	14.7 kW	14.4 kW
SCOP	4.59	3.57
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	13.04 kW	12.78 kW
COP Tj = -7°C	2.54	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.00 kW	7.96 kW
COP Tj = +2°C	4.40	3.44
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.26 kW	4.78 kW
COP Tj = +7°C	7.12	5.13

Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.28 kW	5.72 kW
COP Tj = 12°C	7.56	6.58
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	13.04 kW	12.78 kW
COP Tj = Tbiv	2.54	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.81 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.94
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	1.89 kW	1.86 kW
Annual energy consumption Qhe	6617 kWh	8349 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	160 %	128 %
Prated	14.6 kW	13.9 kW
SCOP	4.08	3.29
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	8.89 kW	8.30 kW
COP Tj = -7°C	3.25	2.70
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.87 kW	5.18 kW
COP Tj = +2°C	5.22	4.03
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.24 kW	5.17 kW
COP Tj = +7°C	6.67	5.44
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.32 kW	5.23 kW
COP Tj = 12°C	7.26	6.07
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	11.91 kW	11.32 kW
COP Tj = Tbiv	2.41	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.07 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.02	1.56
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	4.54 kW	4.83 kW
Annual energy consumption Qhe	8813.00 kWh	10408.00 kWh
Pdh Tj = -15°C (if TOL	11.91	11.32
COP Tj = -15°C (if TOL	2.41	1.97
Cdh Tj = -15 °C	0.9	0.9

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	238.00 %	181.00 %
Prated	14.3 kW	14.9 kW
SCOP	6.05	4.62
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	13.82 kW	13.47 kW
COP Tj = +2°C	3.18	2.48
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	9.17 kW	9.58 kW
COP Tj = +7°C	5.82	4.04
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	5.34 kW	5.64 kW
COP Tj = 12°C	7.33	6.31
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	9.17 kW	9.58 kW
COP Tj = Tbiv	5.82	4.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.82 kW	13.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	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	0.48 kW	1.43 kW
Annual energy consumption Q _{he}	3159.00 kWh	4306.00 kWh