

Subtype HPM-Nd2 series 8kW 10kW

Certificate Holder	Qingdao Economic & Technology Development Zone Haier Water Heater Co., Ltd.
Address	Haier Industry Park Qingdao Economic & Technology District
ZIP	
City	Shandong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	HPM-Nd2 series 8kW 10kW
Registration number	011-1W0699
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.3 kg
Certification Date	06.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model HPM08-Nd2

Model name	HPM08-Nd2
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	151 %
Prated	8.00 kW	8.00 kW
SCOP	4.90	3.85
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.07 kW	7.16 kW
COP Tj = -7°C	3.36	2.64
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.57 kW	4.52 kW
COP Tj = +2°C	4.90	3.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.07 kW	2.92 kW
COP Tj = +7°C	6.12	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.64 kW	3.50 kW
COP Tj = 12°C	7.98	6.40
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.11 kW	8.15 kW
COP Tj = Tbiv	2.88	2.36

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.11 kW	8.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.36
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	40 W	40 W
PSB	9 W	9 W
PCK	22 W	22 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3388 kWh	4365 kWh

Model HPM10-Nd2

Model name	HPM10-Nd2
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	151 %
Prated	10.00 kW	10.00 kW
SCOP	4.90	3.85
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.05 kW	8.98 kW
COP Tj = -7°C	3.29	2.59
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.44 kW	5.55 kW
COP Tj = +2°C	4.81	3.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.43	4.92
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.66 kW	3.50 kW
COP Tj = 12°C	8.21	6.45
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.13 kW	10.15 kW
COP Tj = Tbiv	2.72	2.23

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.13 kW	10.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	40 W	40 W
PSB	9 W	9 W
PCK	22 W	22 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4217 kWh	5361 kWh