Subtype HPM-Nd2 series 14kW 16kW	
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 14kW 16kW
Registration number	011-1W0701
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.95 kg
Certification Date	06.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model HPM-14Nd2	
Model name	HPM-14Nd2
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	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	205 %	153 %
Prated	14.00 kW	14.00 kW
SCOP	5.20	3.90
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.49 kW	12.67 kW
COP Tj = -7°C	3.51	2.63
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.61 kW	7.56 kW
COP Tj = +2°C	5.19	3.93
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.07 kW	4.97 kW
COP Tj = +7°C	7.38	5.42
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.49 kW	5.35 kW
COP Tj = 12°C	9.10	7.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.49 kW	12.67 kW
COP Tj = Tbiv	3.51	2.63

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.45 kW	13.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.06	2.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	40 W	40 W
PSB	10 W	10 W
PCK	64 W	64 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	0.28 kW
Annual energy consumption Qhe	5385 kWh	7231 kWh

Model HPM-16Nd2	
Model name	HPM-16Nd2
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	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	201 %	153 %
Prated	16.00 kW	16.00 kW
SCOP	5.10	3.90
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.23 kW	14.43 kW
COP Tj = -7°C	3.37	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.61 kW	8.50 kW
COP Tj = +2°C	5.20	3.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.67 kW	5.67 kW
COP Tj = +7°C	7.02	5.35
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.48 kW	5.34 kW
COP Tj = 12°C	9.13	7.38
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.23 kW	14.43 kW
COP Tj = Tbiv	3.37	2.55

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.92 kW	15.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.94	2.25
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	40 W	40 W
PSB	10 W	10 W
PCK	64 W	64 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.08 kW	0.74 kW
Annual energy consumption Qhe	6242 kWh	8293 kWh