

Subtype Air to Water Inverter Heat Pump R290 Series 16 kW

Certificate Holder	Guangdong Warmhouse Technology Co., Ltd.
Address	No. 1, Dejin Road, Xingtan Town, Shunde District
ZIP	528306
City	Xingtan
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Air to Water Inverter Heat Pump R290 Series 16 kW
Registration number	011-1W0910
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.3 kg
Certification Date	09.10.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model HL16HGS

Model name	HL16HGS
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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	16.20 kW	15.00 kW
El input	3.35 kW	4.67 kW
COP	4.84	3.21

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	157 %
Prated	15.00 kW	13.00 kW
SCOP	4.95	4.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.10 kW	11.70 kW
COP Tj = -7°C	3.08	2.44
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	8.00 kW	7.10 kW
COP Tj = +2°C	4.69	3.86
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	5.90 kW	5.80 kW

COP Tj = +7°C	6.70	5.24
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.70 kW
COP Tj = 12°C	8.86	7.36
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	13.10 kW	11.70 kW
COP Tj = Tbiv	3.08	2.44
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.40 kW	13.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	17 W	17 W
PTO	18 W	18 W
PSB	17 W	17 W
PCK	49 W	49 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	6180 kWh	6852 kWh