Subtype Air to Water Inverter Heat Pump R290 Series 8 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 8 kW
Registration number	011-1W0908
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.75 kg
Certification Date	09.10.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model HL8HG	
Model name	HL8HG
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	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 14511-2 | Heating	Low temperature	Medium temperature
Heat output	8.06 kW	7.65 kW
El input	1.65 kW	2.38 kW
COP	4.88	3.21

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	199 %	152 %
Prated	8.00 kW	7.00 kW
SCOP	5.05	3.87
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.80 kW	6.60 kW
COP Tj = -7°C	3.26	2.36
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.20 kW	4.10 kW
COP Tj = +2°C	4.93	3.78
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.00 kW	2.90 kW

COP Tj = +7°C	6.49	5.09
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	3.50 kW	3.40 kW
COP Tj = 12°C	8.47	6.92
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	6.80 kW	6.60 kW
COP Tj = Tbiv	3.26	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	7.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.980
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	12 W	12 W
PSB	10 W	10 W
PCK	49 W	49 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	3140 kWh	3974 kWh