

Subtype Ultimate series R290 8kW

Certificate Holder	Guangdong Luckingstar New Energy CO., LTD.
Address	No.255 Hexiang East Rd, C area, Heshan Industrial Zone, Heshan City
ZIP	
City	Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Ultimate series R290 8kW
Registration number	011-1W0851
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.05 kg
Certification Date	06.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model LWH-F8HVLZPN9

Model name	LWH-F8HVLZPN9
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	8.00 kW	8.00 kW
EI input	1.77 kW	2.66 kW
COP	4.50	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	141 %
Prated	8.00 kW	8.00 kW
SCOP	4.78	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.15 kW	7.22 kW
COP Tj = -7°C	3.21	2.43
Cdh Tj = -7 °C	0.993	0.995
Pdh Tj = +2°C	4.39 kW	4.36 kW
COP Tj = +2°C	4.58	3.37
Cdh Tj = +2 °C	0.984	0.988
Pdh Tj = +7°C	4.93 kW	4.40 kW

COP Tj = +7°C	6.33	4.83
Cdh Tj = +7 °C	0.981	0.984
Pdh Tj = 12°C	5.89 kW	5.02 kW
COP Tj = 12°C	8.39	6.22
Cdh Tj = +12 °C	0.979	0.981
Pdh Tj = Tbiv	7.15 kW	7.22 kW
COP Tj = Tbiv	3.21	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	6.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.995
WTOL	75 °C	75 °C
Poff	8 W	8 W
PTO	15 W	15 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.80 kW	1.90 kW
Annual energy consumption Qhe	3457 kWh	4606 kWh