

Subtype Air to Water Heat Pump-R32-15

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	BRE Global Limited
Subtype title	Air to Water Heat Pump-R32-15
Registration number	041-K094-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.7 kg
Certification Date	02.08.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model LWH-F15HVLZPEN5

Model name	LWH-F15HVLZPEN5
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	15.08 kW	14.46 kW
El input	3.28 kW	4.87 kW
COP	4.59	2.97

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	129 %
Prated	14.51 kW	14.36 kW
SCOP	4.54	3.30
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	12.84 kW	12.70 kW
COP Tj = -7°C	3.11	2.27
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.84 kW	7.91 kW
COP Tj = +2°C	4.44	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.32 kW	7.16 kW

COP Tj = +7°C	6.03	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.63 kW	7.93 kW
COP Tj = 12°C	7.58	5.47
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.84 kW	12.70 kW
COP Tj = Tbiv	3.11	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.87 kW	12.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	14 W	14 W
PSB	12 W	12 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.65 kW	1.62 kW
Annual energy consumption Qhe	6602 kWh	8977 kWh

Model LWH-F15HVZPEN5

Model name	LWH-F15HVZPEN5
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	15.15 kW	14.50 kW
El input	3.31 kW	4.86 kW
COP	4.58	2.98

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	130 %
Prated	14.52 kW	14.42 kW
SCOP	4.55	3.32
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	12.85 kW	12.76 kW
COP Tj = -7°C	3.11	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.86 kW	7.96 kW
COP Tj = +2°C	4.45	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.38 kW	7.20 kW

COP Tj = +7°C	6.04	4.11
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.68 kW	7.98 kW
COP Tj = 12°C	7.59	5.48
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.85 kW	12.76 kW
COP Tj = Tbiv	3.11	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.93 kW	12.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	14 W	14 W
PSB	12 W	12 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.59 kW	1.63 kW
Annual energy consumption Qhe	6596 kWh	8986 kWh