

Subtype DC Inverter Heat Pump 120

Certificate Holder	GZ AXEN Heat Pump Technology Co., Ltd.
Address	No.22, Lianyun Erheng Road, Shiqi Village, Shiqi Town, Panyu District
ZIP	511450
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Heat Pump 120
Registration number	041-K030-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.75 kg
Certification Date	14.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model KS-120W/EN8BP**

Model name	KS-120W/EN8BP
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	11.98 kW	12.28 kW
El input	2.68 kW	4.45 kW
COP	4.47	2.76

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	180 %	132 %
Prated	11.28 kW	11.08 kW
SCOP	4.56	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.98 kW	9.80 kW
COP Tj = -7°C	2.54	2.00
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.30 kW	6.58 kW
COP Tj = +2°C	4.42	3.27
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.30 kW	4.24 kW

COP Tj = +7°C	6.33	4.45
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.32 kW	5.00 kW
COP Tj = 12°C	8.88	6.54
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.98 kW	9.80 kW
COP Tj = Tbiv	2.54	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.02 kW	9.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	67 °C	67 °C
Poff	7 W	7 W
PTO	19 W	19 W
PSB	7 W	7 W
PCK	17 W	17 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.05 kW
Annual energy consumption Qhe	5112 kWh	6791 kWh