

Subtype DC Inverter Heat Pump 160S

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 160S
Registration number	041-K030-11
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.1 kg
Certification Date	06.02.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model KS-160W/EN8SBP**

Model name	KS-160W/EN8SBP
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	15.92 kW	16.38 kW
El input	3.64 kW	5.89 kW
COP	4.38	2.78

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	67 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	177 %	129 %
Prated	14.89 kW	12.93 kW
SCOP	4.50	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.18 kW	11.44 kW
COP Tj = -7°C	2.56	1.93
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.02 kW	7.41 kW
COP Tj = +2°C	4.42	3.35
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.90 kW	4.83 kW

COP Tj = +7°C	6.05	4.03
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.33 kW	5.68 kW
COP Tj = 12°C	8.44	5.83
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	13.18 kW	11.44 kW
COP Tj = Tbiv	2.56	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.47 kW	11.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	30 W	30 W
PSB	12 W	12 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.42 kW	1.25 kW
Annual energy consumption Qhe	6831 kWh	8097 kWh