

## Subtype DC Inverter Heat Pump 140S

Certificate Holder	GZ Dotels Electric Appliances Co., Ltd.
Address	No.B23, Huachuang Animation Industrial Park
ZIP	
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	DC Inverter Heat Pump 140S
Registration number	041-K030-10
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

## Model KS-140W/EN8SBP

Model name	KS-140W/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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	65 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	176 %	130 %
Prated	12.79 kW	12.23 kW
SCOP	4.47	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.32 kW	10.82 kW
COP Tj = -7°C	2.45	1.97
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	6.90 kW	7.36 kW
COP Tj = +2°C	4.25	3.26
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.64 kW	5.54 kW
COP Tj = +7°C	6.52	4.34
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.74 kW	6.09 kW
COP Tj = 12°C	8.88	6.09
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.32 kW	10.82 kW
COP Tj = Tbiv	2.45	1.97

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.27 kW	11.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.81
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	0.52 kW	1.10 kW
Annual energy consumption Qhe	5912 kWh	7599 kWh