

Subtype Air Source Heat Pump 006

Certificate Holder	SolarEast Heat Pump Ltd.
Address	No.73 Defu Road
ZIP	528325
City	Guangdong Province,
Country	CN
Certification Body	BRE Global Limited
Subtype title	Air Source Heat Pump 006
Registration number	041-K042-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.25 kg
Certification Date	26.12.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

Model BLN-006TB1

Model name	BLN-006TB1
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 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	126 %
Prated	5.22 kW	5.03 kW
SCOP	4.58	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.62 kW	4.45 kW
COP Tj = -7°C	3.03	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.92 kW	2.80 kW
COP Tj = +2°C	4.51	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.04 kW	1.75 kW
COP Tj = +7°C	6.03	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.06 kW	2.19 kW
COP Tj = 12°C	7.58	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.62 kW	4.45 kW
COP Tj = Tbiv	3.03	2.14

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.18 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.75	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	8 W	8 W
PTO	16 W	16 W
PSB	8 W	8 W
PCK	63 W	63 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	0.94 kW
Annual energy consumption Qhe	2357 kWh	3212 kWh

Model BLN-006TD1

Model name	BLN-006TD1
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 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	126 %
Prated	5.22 kW	5.03 kW
SCOP	4.58	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.62 kW	4.45 kW
COP Tj = -7°C	3.03	2.14
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Pdh Tj = +2°C	2.92 kW	2.80 kW
COP Tj = +2°C	4.51	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.04 kW	1.75 kW
COP Tj = +7°C	6.03	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.06 kW	2.19 kW
COP Tj = 12°C	7.58	6.08
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.62 kW	4.45 kW
COP Tj = Tbiv	3.03	2.14

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.18 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	8 W	8 W
PTO	16 W	16 W
PSB	8 W	8 W
PCK	63 W	63 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	0.94 kW
Annual energy consumption Qhe	2357 kWh	3212 kWh