

Subtype Air Source Heat Pump 010

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 010
Registration number	041-K042-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.8 kg
Certification Date	26.12.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model BLN-010TB1

Model name	BLN-010TB1
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	10.31 kW	9.28 kW
El input	2.31 kW	2.96 kW
COP	4.47	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	126 %
Prated	7.86 kW	7.26 kW
SCOP	4.47	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.95 kW	6.42 kW
COP Tj = -7°C	3.25	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.19 kW	4.11 kW
COP Tj = +2°C	4.47	3.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.02 kW	3.71 kW

COP Tj = +7°C	5.70	4.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.94 kW	4.12 kW
COP Tj = 12°C	8.34	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.95 kW	6.42 kW
COP Tj = Tbiv	3.25	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.41 kW	6.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	9 W	9 W
PTO	19 W	19 W
PSB	9 W	9 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.45 kW	0.91 kW
Annual energy consumption Qhe	3630 kWh	4634 kWh

Model BLN-010TB3

Model name	BLN-010TB3
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	10.06 kW	10.01 kW
El input	2.14 kW	3.14 kW
COP	4.71	3.19

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	127 %
Prated	7.84 kW	7.46 kW
SCOP	4.48	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.93 kW	6.60 kW
COP Tj = -7°C	3.40	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.21 kW	4.02 kW
COP Tj = +2°C	4.40	3.24
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.13 kW	3.68 kW

COP Tj = +7°C	5.33	3.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.89 kW	4.27 kW
COP Tj = 12°C	8.67	5.98
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.93 kW	6.60 kW
COP Tj = Tbiv	3.40	2.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.54 kW	6.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.19	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	15 W	15 W
PTO	26 W	26 W
PSB	15 W	15 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.37 kW
Annual energy consumption Qhe	3611 kWh	4749 kWh

Model BLN-010TD1

Model name	BLN-010TD1
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	10.31 kW	9.28 kW
El input	2.31 kW	2.97 kW
COP	4.47	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	126 %
Prated	7.86 kW	7.26 kW
SCOP	4.47	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.95 kW	6.42 kW
COP Tj = -7°C	3.25	2.29
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.19 kW	4.11 kW
COP Tj = +2°C	4.47	3.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.02 kW	3.71 kW

COP Tj = +7°C	5.70	4.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.94 kW	4.12 kW
COP Tj = 12°C	8.34	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.95 kW	6.42 kW
COP Tj = Tbiv	3.25	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.41 kW	6.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	9 W	9 W
PTO	19 W	19 W
PSB	9 W	9 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.45 kW	0.91 kW
Annual energy consumption Qhe	3630 kWh	4634 kWh

Model BLN-010TD3

Model name	BLN-010TD3
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	10.06 kW	10.01 kW
El input	2.14 kW	3.14 kW
COP	4.71	3.19

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	127 %
Prated	7.84 kW	7.46 kW
SCOP	4.48	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.93 kW	6.60 kW
COP Tj = -7°C	3.40	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.21 kW	4.02 kW
COP Tj = +2°C	4.40	3.24
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.13 kW	3.68 kW

COP Tj = +7°C	5.33	3.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.89 kW	4.27 kW
COP Tj = 12°C	8.67	5.98
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.93 kW	6.60 kW
COP Tj = Tbiv	3.40	2.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.54 kW	6.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.19	2.27
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	15 W	15 W
PTO	26 W	26 W
PSB	15 W	15 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.37 kW
Annual energy consumption Qhe	3611 kWh	4749 kWh