

## Subtype Air Source Heat Pump 014

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 014
Registration number	041-K042-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.8 kg
Certification Date	26.12.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 11

## Model BLN-014TB1

Model name	BLN-014TB1
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	14.52 kW	14.83 kW
El input	3.17 kW	4.88 kW
COP	4.57	3.04

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	126 %
Prated	10.49 kW	9.96 kW
SCOP	4.51	3.22
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.28 kW	8.81 kW
COP Tj = -7°C	3.21	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.88 kW	5.38 kW
COP Tj = +2°C	4.36	3.15
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.45 kW	5.87 kW

COP Tj = +7°C	6.00	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.22 kW	6.75 kW
COP Tj = 12°C	8.03	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.81 kW
COP Tj = Tbiv	3.21	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	9.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	12 W	12 W
PTO	15 W	15 W
PSB	12 W	12 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.49 kW	0.10 kW
Annual energy consumption Qhe	4808 kWh	6390 kWh

## Model BLN-014TB3

Model name	BLN-014TB3
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	14.75 kW	14.87 kW
El input	3.17 kW	4.87 kW
COP	4.66	3.05

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	69 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	10.71 kW	10.28 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.48 kW	9.10 kW
COP Tj = -7°C	3.28	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.81 kW	5.53 kW
COP Tj = +2°C	4.31	3.13
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.50 kW	5.98 kW

COP Tj = +7°C	5.94	4.38
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.32 kW	6.79 kW
COP Tj = 12°C	8.28	6.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.48 kW	9.10 kW
COP Tj = Tbiv	3.28	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.23 kW	10.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
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	17 W	17 W
PSB	15 W	15 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.48 kW	0.00 kW
Annual energy consumption Qhe	4919 kWh	6540 kWh

## Model BLN-014TD1

Model name	BLN-014TD1
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	14.52 kW	14.83 kW
El input	3.17 kW	4.88 kW
COP	4.57	3.04

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	126 %
Prated	10.49 kW	9.96 kW
SCOP	4.51	3.22
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.28 kW	8.81 kW
COP Tj = -7°C	3.21	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.88 kW	5.38 kW
COP Tj = +2°C	4.36	3.15
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.45 kW	5.87 kW

COP Tj = +7°C	6.00	4.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.22 kW	6.75 kW
COP Tj = 12°C	8.03	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.28 kW	8.81 kW
COP Tj = Tbiv	3.21	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	9.86 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	51 °C	51 °C
Poff	12 W	12 W
PTO	15 W	15 W
PSB	12 W	12 W
PCK	42 W	42 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	4808 kWh	6390 kWh

## Model BLN-014TD3

Model name	BLN-014TD3
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	14.75 kW	14.87 kW
El input	3.17 kW	4.87 kW
COP	4.66	3.05

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	69 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	127 %
Prated	10.71 kW	10.28 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.48 kW	9.10 kW
COP Tj = -7°C	3.28	2.24
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.81 kW	5.53 kW
COP Tj = +2°C	4.31	3.13
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.50 kW	5.98 kW

COP Tj = +7°C	5.94	4.38
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.32 kW	6.79 kW
COP Tj = 12°C	8.28	6.01
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.48 kW	9.10 kW
COP Tj = Tbiv	3.28	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.23 kW	10.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
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	17 W	17 W
PSB	15 W	15 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.48 kW	0.01 kW
Annual energy consumption Qhe	4919 kWh	6540 kWh