

Subtype Air Source Heat Pump 018

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 018
Registration number	041-K042-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.5 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-018TD1

Model name	BLN-018TD1
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	18.73 kW	18.52 kW
El input	4.12 kW	6.14 kW
COP	4.55	3.02

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	129 %
Prated	14.04 kW	13.47 kW
SCOP	4.52	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.42 kW	11.92 kW
COP Tj = -7°C	3.42	2.47
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.64 kW	7.37 kW
COP Tj = +2°C	4.37	3.32
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.49 kW	5.87 kW

COP Tj = +7°C	5.51	3.88
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.29 kW	6.77 kW
COP Tj = 12°C	8.24	5.10
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.42 kW	11.92 kW
COP Tj = Tbiv	3.42	2.47
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.29 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.11	2.17
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	11 W	11 W
PTO	37 W	37 W
PSB	11 W	11 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	2.00 kW
Annual energy consumption Qhe	6412 kWh	8435 kWh

Model BLN-018TB1

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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
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Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.42 kW	11.92 kW
COP Tj = Tbiv	3.42	2.47
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.29 kW	11.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.11	2.17
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	11 W	11 W
PTO	37 W	37 W
PSB	11 W	11 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.76 kW	2.00 kW
Annual energy consumption Qhe	6412 kWh	8435 kWh

Model BLN-018TB3

Model name	BLN-018TB3
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	18.62 kW	18.66 kW
El input	4.05 kW	5.99 kW
COP	4.60	3.12

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	71 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	128 %
Prated	13.75 kW	13.73 kW
SCOP	4.53	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.17 kW	12.15 kW
COP Tj = -7°C	3.41	2.52
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.39 kW	7.36 kW
COP Tj = +2°C	4.39	3.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.46 kW	5.86 kW

COP Tj = +7°C	5.62	3.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.28 kW	6.83 kW
COP Tj = 12°C	7.99	5.12
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.17 kW	12.15 kW
COP Tj = Tbiv	3.41	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.39 kW	11.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	50 °C	50 °C
Poff	11 W	11 W
PTO	37 W	37 W
PSB	11 W	11 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.37 kW	2.70 kW
Annual energy consumption Qhe	6271 kWh	8646 kWh

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Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

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Power supply	3x400V 50Hz
Off-peak product	n/a

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