

R290 Monobloc Heat Pump

Compact 4kW Heat Pump
Ideal for Small Homes



Solareast Heat Pump Ltd.

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Main features

R290 refrigerant **GWP=3**

Compact Domestic Heat Pumps

Operation down to **-25°C**

IoT function

SG Ready

Integrated **Microbubble Valve**

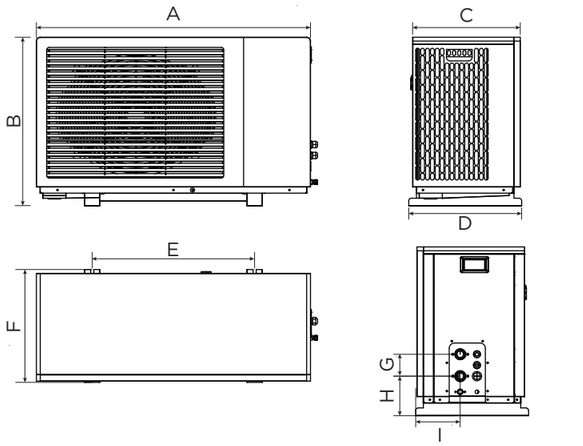
Integrated **Refrigerant Sensor**

Customizable heating curve

Full **inverter** technology

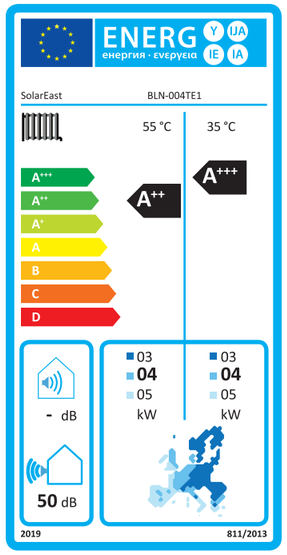
Super **silent**

Dimensions



Dimension	A	B	C	D	E	F	G	H	I
size(mm)	1100	660	438	458	750	453	90	147	154

ERP Label



Compact 4kW Heat Pump



TECHNICAL DATA

Model			BLN-004TE1
Power supply		V/Ph/Hz	220-240V/1N～/50Hz
Nominal Heating (A7/6℃,W30/35℃)	Heating output Min./Max.	kW	1.25-4.50
	Heating Power Input Min./Max.	kW	0.26-0.95
	Heating output Rated	kW	4.20
	COP	w/w	5.01
Nominal Heating (A7/6℃,W47/55℃)	Heating output Min./Max.	kW	1.00-4.10
	Heating Power Input Min./Max.	kW	0.35-1.35
	Heating output Rated	kW	3.85
	COP	w/w	3.20
Nominal Cooling (A35/24℃,W12/7℃)	Cooling output Min./Max.	kW	1.35-3.80
	Cooling Power Input Min./Max.	kW	0.45-1.25
	Cooling output Rated	kW	3.6
	EER	w/w	3.25
Low temperature application(35℃)	SCOP	kWh/kWh	4.79
	Energy efficiency class	/	A+++
Medium temperature application(55℃)	SCOP	kWh/kWh	3.61
	Energy efficiency class	/	A++
Ambient Temperature:7℃, Water Outlet：35℃	Sound Pressure level	dB(A)	35
	Sound power level	dB(A)	49
Ambient Temperature:7℃, Water Outlet：55℃	Sound Pressure level	dB(A)	36
	Sound power level	dB(A)	50
Power Input Max.		kW	2.20
Current Input Max.		A	10
Heating Ambient Temperature		℃	-25~35
Cooling Ambient Temperature		℃	16~45
Hot Water Ambient Temperature		℃	-25~45
Heating Water side operating temperature		℃	20~75
Cooling Water side operating temperature		℃	25~5
Hot Water Water side operating temperature		℃	20~65
Refrigerant Type／Charge／GWP		/	R290 /0.60 / 3
CO_2 Equivalent		/	0.0018t
Operation Pressure(Low Side)		MPa	0.8
Operation Pressure(High Side)		MPa	3.0
Maximum Allowable Pressure		MPa	3.2
Electrical Shockproof		/	I
IP Class		/	IPX4
Water Piping Connections		In	G1
Water Pressure Drop		kPa	15
Water Pressure Min/Max		MPa	0.1 / 0.3
Water Flow Rated		m^3/h	0.700
Air flow Rated		m^3/h	2500
Unit Dimensions (W/H/D)		mm	1100*440*660
Shipping Dimensions (W/H/D)		mm	1160*490*810
Net Weight		kg	85

* Please refer to the nameplate for product upgrades or changes in specifications without prior notice.
* Draft parameters, refer to final specifications for actual performance.