

Technical Data

Photos



Model		BLN-006TC1	BLN-012TC1	BLN-012TC3	BLN-018TC1	BLN-018TC3	
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	
Nominal Heating (Max) (A7/6°C,W30/35°C)	Heating capacity	kW	2.92~9.1	4.30~15.20	4.30~15.20	7.24~22.1	7.24~22.1
	Power input	kW	0.61~2.11	0.87~3.73	0.87~3.73	1.5~5.88	1.5~5.88
	Current input	A	2.8~9.25	4.02~16.38	1.78~6.04	6.86~30.25	2.82~9.16
Nominal Heating (Max) (A7/6°C,W47/55°C)	Heating capacity	kW	2.99~8.16	4.25~14.55	4.25~14.55	6.36~19.45	6.36~19.45
	Power input	kW	1.03~2.92	1.45~4.28	1.45~4.28	2.15~6.85	2.15~6.85
	Current input	A	4.57~12.79	6.71~18.80	2.84~6.78	9.84~30.12	3.71~10.60
Nominal Cooling (Max) (A35/24°C,W12/7°C)	Cooling capacity	kW	1.38~5.70	3.65~11.4	3.65~11.4	4.55~17.20	4.55~17.20
	Power input	kW	0.67~2.44	1.12~3.97	1.12~3.97	1.85~7.31	1.85~7.31
	Current input	A	3.06~10.27	5.18~17.44	1.97~6.30	8.47~32.1	2.99~11.26
ERP level (Outlet water temp. at 35°C)	/	A+++	A+++	A+++	A+++	A+++	
Max. input power	kW	3.50	5.40	5.85	7.50	10.50	
Max. input current	A	15.00	25.00	10.00	35.00	17.00	
Refrigerant	/	R290	R290	R290	R290	R290	
Rated water flow	m³/h	1.00	2.06	2.06	3.10	3.10	
Fan quantity	/	1	1	1	2	2	
Fan motor type	/	DC inverter					
Compressor	/	DC inverter					
Circulating pump	/	Inverter type / Built-in					
IP class	/	IPX4					
Sound pressure at 1m distance	dB(A)	42	50	50	55	55	
Max outlet water temperature	°C	75	75	75	75	75	
Water piping connections	/	DN 25 (1")	DN 25 (1")	DN 25 (1")	DN 32 (1-1/4")	DN 32 (1-1/4")	
Water pressure drop(max)	kPa	20	20	20	55	55	
Operating temperature range (Heating mode)	°C	-25~45					
Operating temperature range (Cooling mode)	°C	16~45					
Unpacked dimensions (L×D×H)	mm	1187*418*805	1287*448*904	1287*448*904	1187*488*1456	1187*488*1456	
Packed dimensions (L×D×H)	mm	1217*463*920	1317*493*1020	1317*493*1020	1217*538*1570	1217*538*1570	
Unpacked weight	kg	110	123	123	184	184	
Packed weight	kg	115	128	128	192	192	

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SolarEast

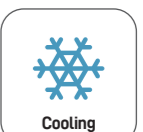
DC Inverter Heat Pump

Heating/Cooling/Domestic Hot Water



Features:

- R290 refrigerant, low GWP (GWP=3)
- Energy class: A+++
- Heating+Cooling+DHW
- Full DC inverter compressor and fan motor
- Stable running at -25°C
- WiFi smart control
- Outlet water temperature up to 75°C



Main Components



1.DC inverter compressor

-25℃ stable working



2.High efficiency plate heat exchanger

Higher efficiency
special design with patent



3.DC inverter fan

Variable speed with lower noise,higher efficiency with long lifespan



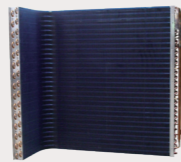
4.Inverter driver

Reliable and intelligent



5.Pressure sensor

High-precision sensing in -60℃ to 150℃ operating temperature range



6.Blue-fin evaporator

Enlarged size with unique hydrophilic coating,quickly remove moisture after defrosting,greatly improve heating efficiency



7.Super low noise fan

Borderless axial fan with high heat dissipation material,lower resistance lower vibration,lower noise



8.Water pump

Stable and durable



9.Four way valve

Rapid defrosting



10.Water flow switch

Intelligent for heat pump protection



11.Expansion tank

The expansion tank plays the role of buffering pressure fluctuations and part of the water supply in the water system



12.Pressure relief valve

Control the pressure of the water system not to exceed the specified design value, which plays an important role in protecting personal safety and equipment operation

Heating & Cooling & DHW



Application

