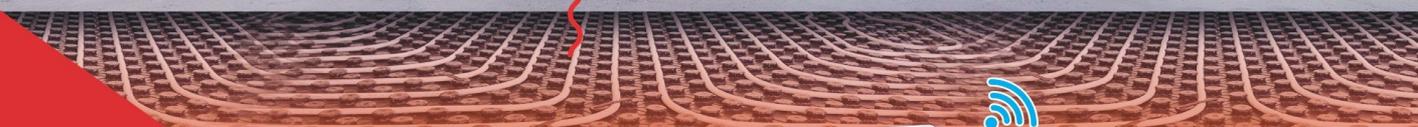


SolarEast

Heating & Cooling & DHW

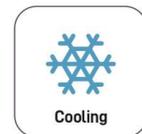


Features:

- ⊕ Energy class: A+++
- ⊕ Heating+Cooling+DHW
- ⊕ Full DC inverter Panasonic compressor and fan motor
- ⊕ -30°C inverter EVI
- ⊕ WIFI smart control
- ⊕ R32 refrigerant, environmental friendly
- ⊕ Outlet water temperature up to 60°C



Floor heating



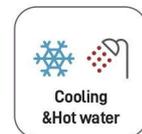
Cooling



Hot water



Floor heating & Hot water



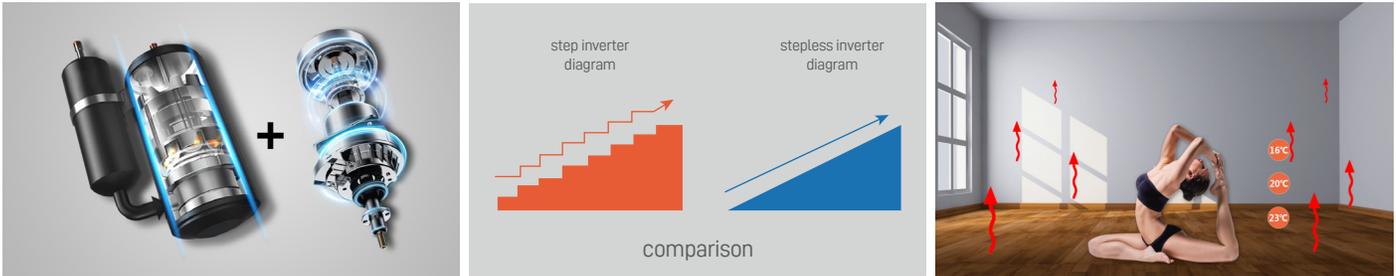
Cooling & Hot water



Core Technologies

🏆 Full DC stepless(1 Hz) inverter technology: high efficiency and more energy-saving

Full DC stepless inverter refers to air source heat pump (variable frequency compressor, variable frequency motor) which use DC inverter technology. Most products in the market use step frequency conversion or grid-style frequency conversion, which cannot achieve real stepless frequency modulation; Stepless inverter means stepless frequency modulation, which can achieve continuous speed regulation without gear. According to the running condition, Ultra-low temperature full DC inverter frequency modulation, which can save more energy up to 59%, compare with other variable frequency units, Heat pump can realize free running with 1Hz stepless variable frequency.



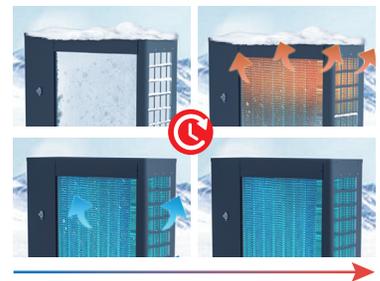
🏆 38dB low frequency silent cruise technology: ultra-silence

Heat pump uses the self-developed 1 Hz DC stepless frequency modulation technology, and realize real-time precision control of various running parameters. When reaching the set temperature, the units automatically switch into low frequency cruise mode, and the volume is only 38 dB, just as the sound of opening books in the library, you can enjoy the most comfortable and quiet environment.



🏆 3min intelligent defrosting technology: precision, speed and high efficiency

Heat pump uses self-developed patented intelligent defrosting technology. If the frost layer coverage is more than 85%, it will switch into defrosting mode, ensuring the machine frost-free.



🏆 EVI technology: stable running at -30°C

The compressor of which uses EVI technology. 20% increase in amount of refrigerant flow, on the one hand, makes the operating temperature range more wider as from -30°C to 48°C, and on the other hand, realizes two-stage compression function, which solving the problem of poor heating effect at ultra-low temperature, such as at -30°C.



Main Components



1. Panasonic DC inverter compressor with EVI technology

-30 °C 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°C to 150°C 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

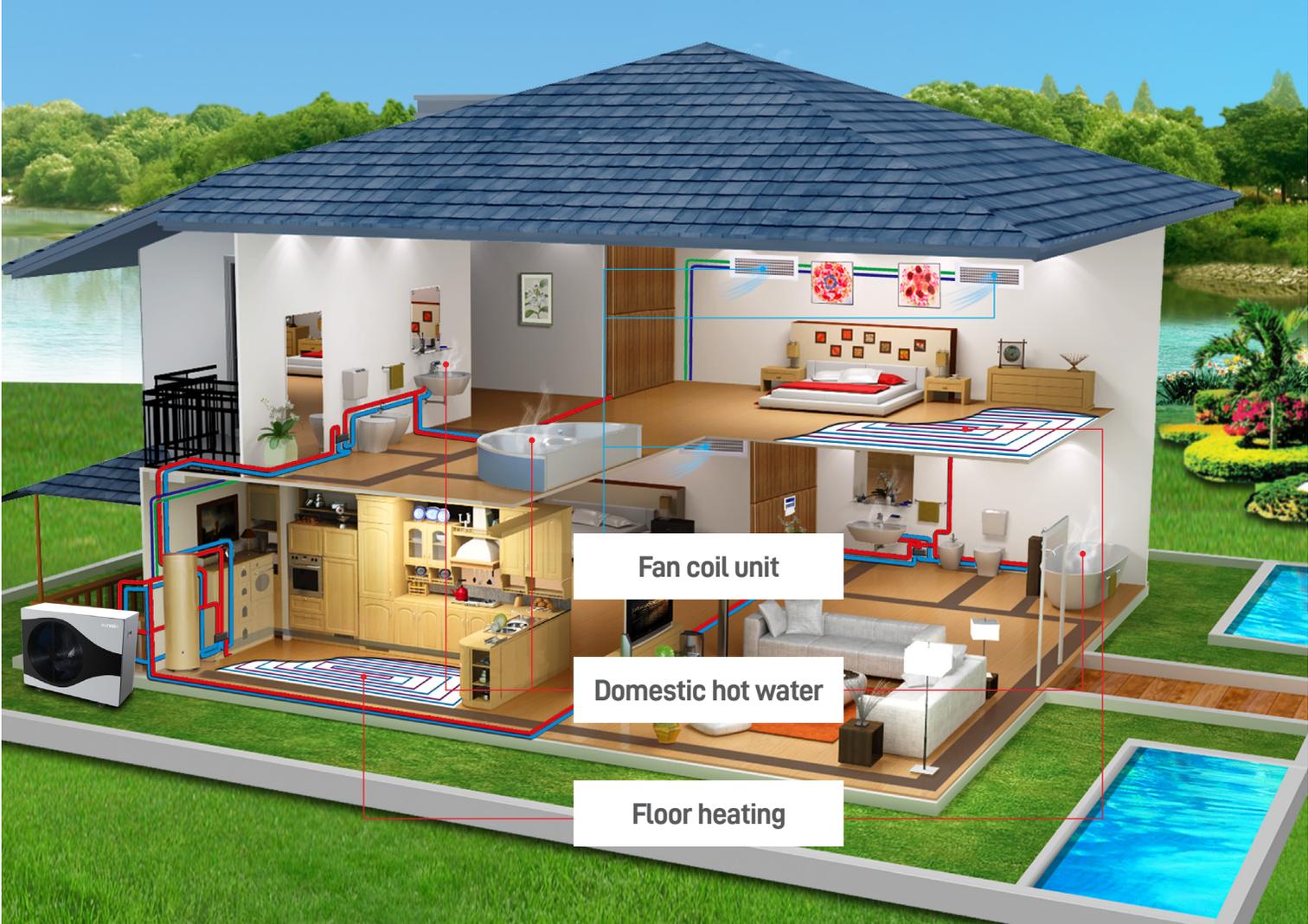
Rapid defrosting



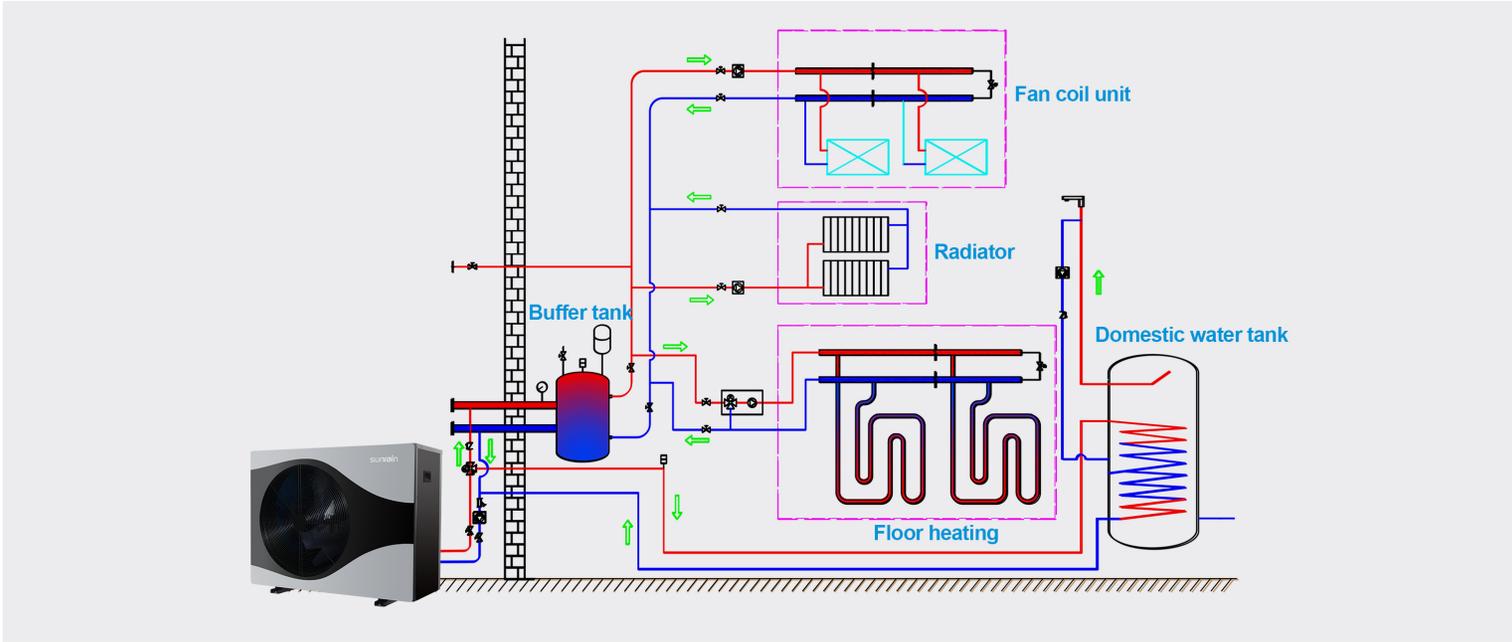
10. Water flow switch

Intelligent for heat pump protection

Heating & Cooling & DHW



Application



Technical Data

Photos



Model		BLN-006TB1	BLN-010TB1	BLN-010TB3	BLN-014TB1	BLN-014TB3	BLN-018TB1	BLN-018TB3	BLN-024TB3	
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	220~240/1/50	380~415/3/50	380~415/3/50	
Nominal Heating (Max) (A7/6°C,W30/35°C)	Heating Capacity	kW	6.46(2.50-8.30)	10.58(4.20-12.20)	10.58(4.20-12.20)	14.45(5.30-16.50)	14.45(5.30-16.60)	18.77(6.20-20.50)	18.77(6.20-20.50)	24.33 (6.50-26.10)
	Power Input	kW	1.31	2.29	2.29	3.06	3.06	3.99	3.99	5.10
	COP	W/W	4.93	4.62	4.62	4.72	4.72	4.70	4.70	4.77
Nominal Heating (Max) (A7/6°C,W47/55°C)	Heating Capacity	kW	5.92	9.47	9.47	13.89	13.89	16.90	16.90	24.29
	Power Input	kW	1.85	3.09	3.09	4.47	4.47	5.47	5.47	7.93
	COP	W/W	3.21	3.06	3.06	3.11	3.11	3.09	3.09	3.06
Nominal Cooling (Max) (A35/24°C,W12/7°C)	Cooling Capacity	kW	5.66	8.34	8.34	13.24	13.24	15.88	15.88	20.89
	Power Input	kW	1.74	2.66	2.66	4.12	4.12	4.99	4.99	6.70
	EER	W/W	3.25	3.14	3.14	3.21	3.21	3.18	3.18	3.12
ERP Level (Outlet water temp. at 35°C)	/	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
ERP Level (Outlet water temp. at 55°C)	/	A++	A++	A++	A++	A++	A++	A++	A++	
Rated input power	kW	2.71	3.83	3.83	5.97	5.97	7.24	7.24	9.38	
Rated input current	A	12.00	17.00	6.5	26.50	10.50	35.50	13.20	17.30	
Refrigerant / Weight	/	R32	R32	R32	R32	R32	R32	R32	R32	
Rated water flow	m3/h	1.10	1.75	1.75	2.50	2.50	3.20	3.20	4.20	
Fan quantity	/	1	1	1	1	1	2	2	2	
Fan motor type	/	DC inverter								
Compressor	/	Panasonic / DC inverter / Rotary / EVI								
Circulating pump	/	Inverter type / Built-in								
IP Class	/	IPX4								
Sound pressure at 1m distance	dB(A)	50	51	51	52	52	54	54	55	
Max outlet water temperature	°C	60	60	60	60	60	60	60	60	
Water piping connections	/	DN 25 (1")	DN 25 (1")	DN 25 (1")	DN 32 (1-1/4")	DN 32 (1-1/4")	DN 40 (1.5")	DN 40 (1.5")	DN 40 (1.5")	
Pressure drop at rating water flow	kPa	25	27	27	30	30	32	32	32	
Operating temperature range(Heating mode)	°C	-30~45								
Operating temperature range(Cooling mode)	°C	16~45								
Unpacked Dimensions (LxDxH)	mm	1110*445*850	1110*445*850	1110*475*850	1110*475*850	1110*475*850	1050*420*1250	1050*420*1250	1050*420*1250	
Packed Dimensions (LxDxH)	mm	1160*530*1010	1160*530*1010	1160*565*1010	1160*565*1010	1160*565*1010	1100*480*1400	1100*480*1400	1100*480*1400	
UnPacked Weight	kg	95	109	109	125	125	155	155	174	
Packed Weight	kg	105	119	119	140	140	175	175	194	

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