

# SolarEast

**Heating & Cooling & DHW**

**R32 DC Inverter  
Heat Pump**

Make the world cleaner, make the life better





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At Solareast, long-term sustainability is one of our key drivers in how we operate. We aim to contribute to sustainable growth for the world with the new value.

This is the reason why Solareast R32 EVI DC Inverter Heat Pumps were created and as one of the most environmentally friendly energy sources, R32 refrigerant will make the planet cleaner.





Solareast R32 Monoblock EVI DC Inverter Heat Pump is the newest air source heat pump that reaches A+++ energy efficiency. It's integrated with heating, Cooling, and DHW function. Several detailed features are also available and will be introduced later





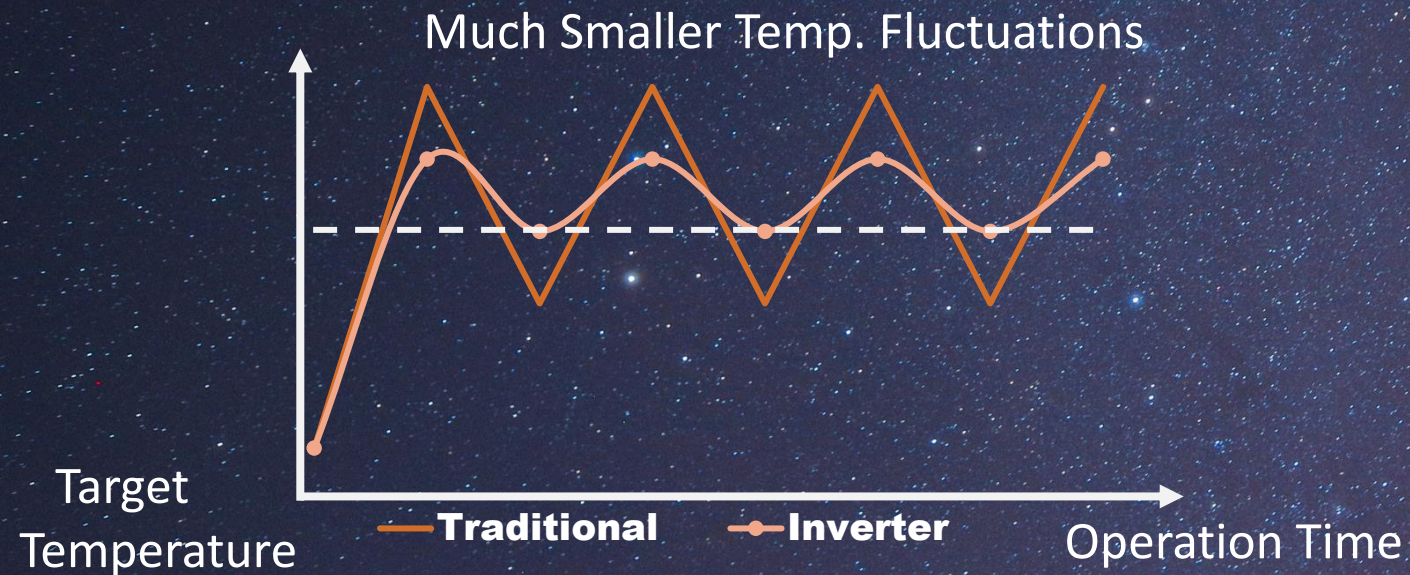
**EFFICIENT**  
**HEATING & COOLING & DHW**  
**PERFORMANCE**





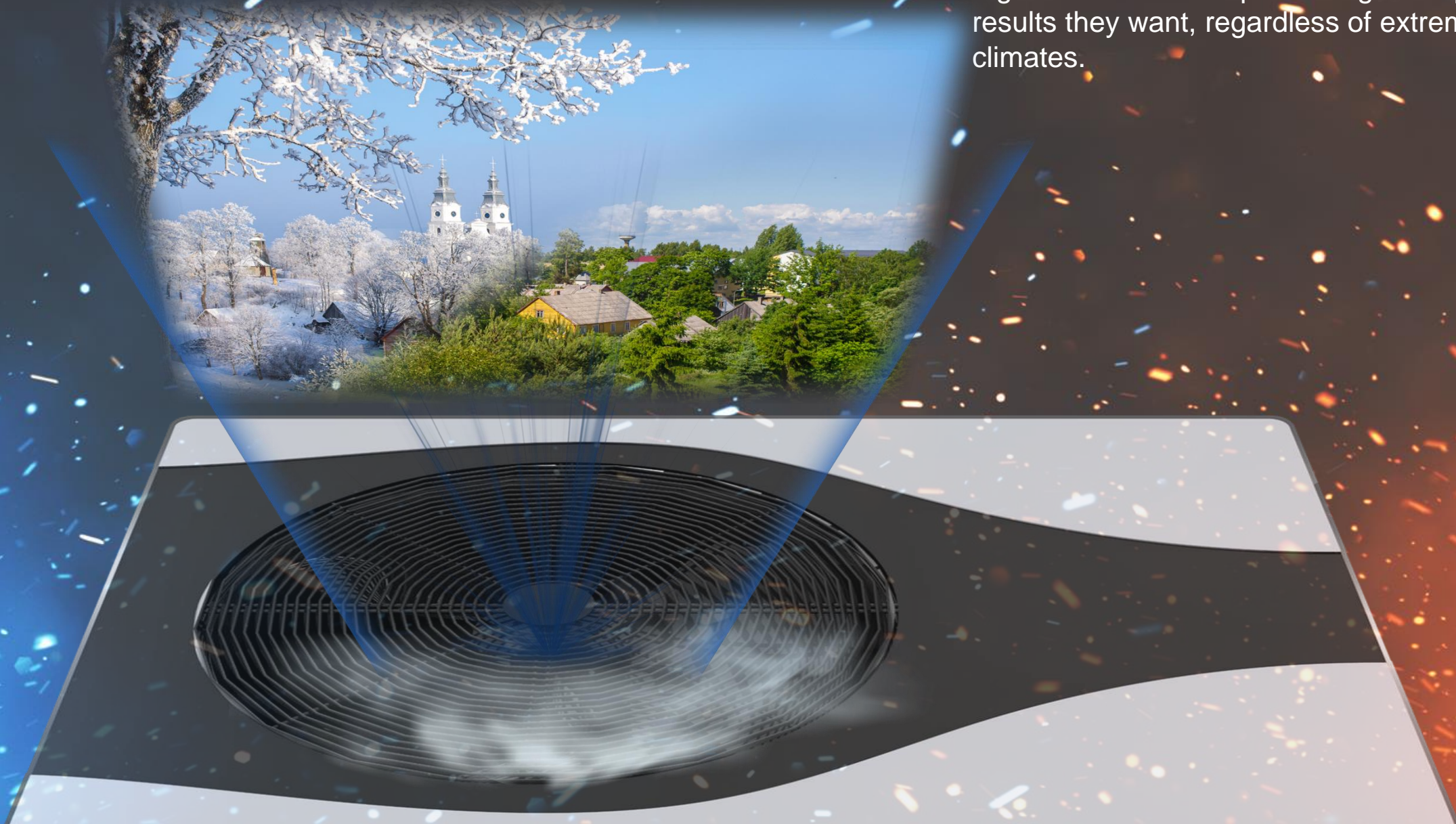
# R32 EVI FULL DC INVERTER HEAT PUMP

Solareast R32 heat pump adopts Panasonic DC inverter Compressor and Panasonic DC inverter fan. With this technology, users can enjoy a maximum level of comfort at the lowest costs. Freestanding features In the market is to save space and money. For sure. The R32 EVI Full DC Inverter heat pump will be the future trend.

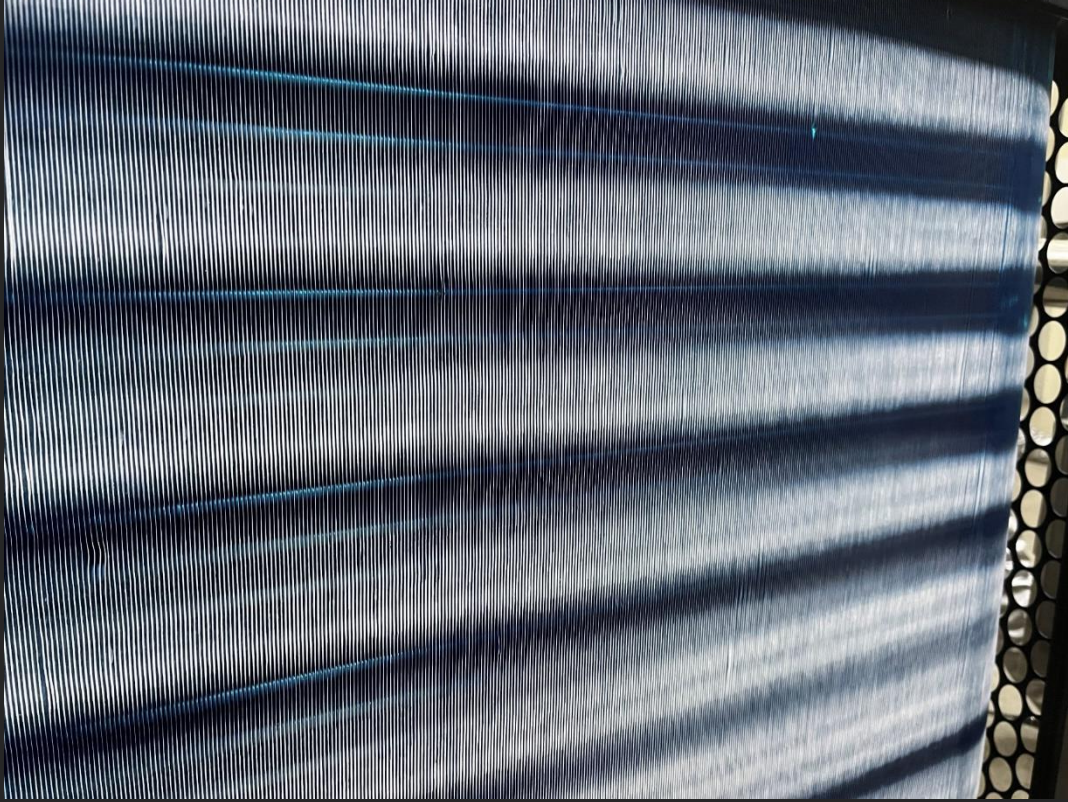




Thanks to the integrated heating/cooling/DHW function in the heat pump, the R32 HP is able to deliver the right temperature with great power. It gives users more options to get the perfect results they want, regardless of extreme cold/hot climates.





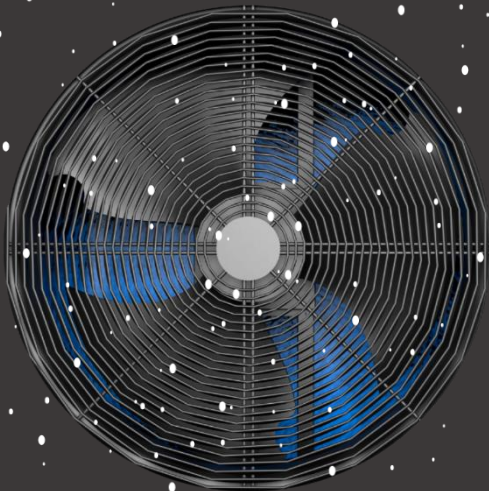


## Intelligent Defrosting Technology

Solareast intelligent defrost control mode calculates the temperature difference and the accumulated working time of the compressor to judge the defrost condition of the evaporator. When the defrost condition is met, it will automatically enter the defrost mode.

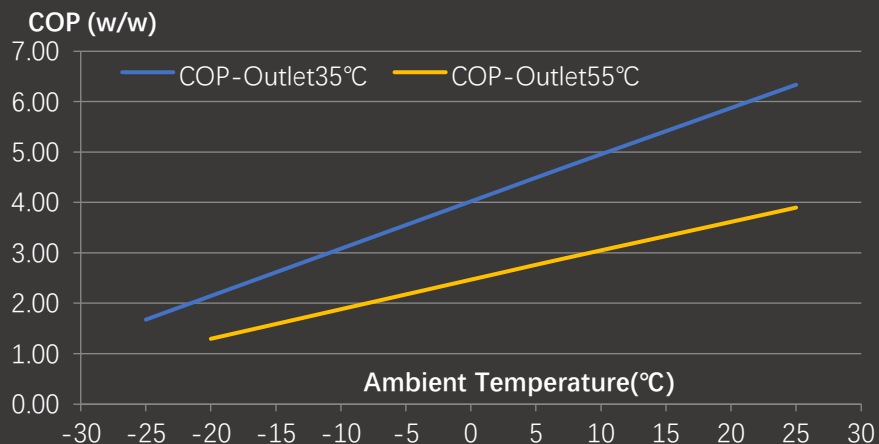






## Super Low Noise

Equipped with the DC inverter brushless fans and designed based on aerodynamics, Solareast DC inverter heat pumps adopt multiple noise reduction and sound insulation measures so that noise is reduced to a low level.



\*BLN-006TB1

## Heating in low temp. of -30°C

With the use of a DC inverter Panasonic compressor and DC inverter controller, it can automatically increase the operating frequency according to the ambient temperature and greatly improve the heating capacity in a low-temperature environment.

## High Heating Efficiency

The unit can operate at a high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.

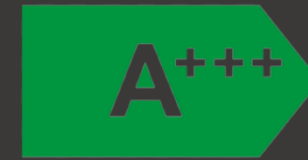
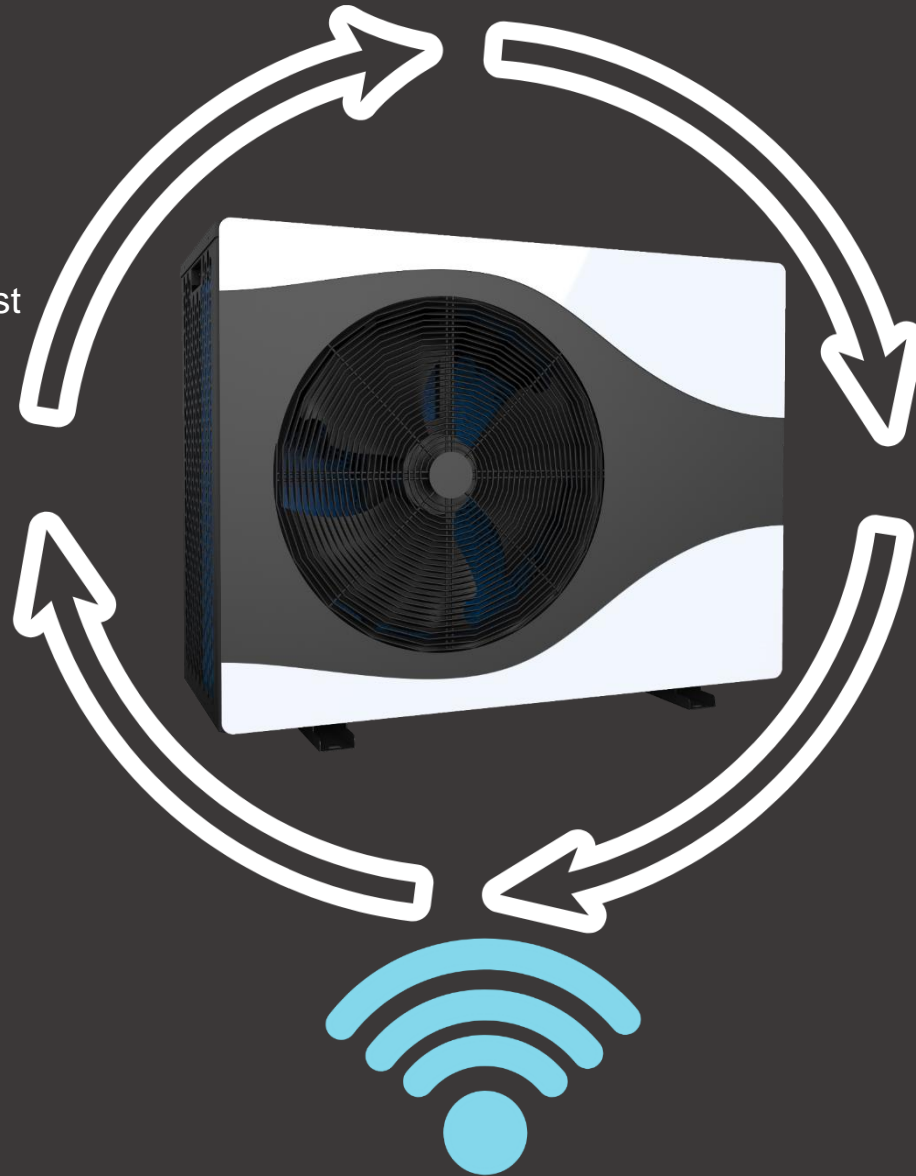




R32 is environmentally friendly and has no combustion or exhaust gas emissions.



Separation of water and electricity. There are no hidden dangers.



ERP A+++ R32 EVI DC inverter heat pumps charge and recirculate more efficiently than DC inverter heat pumps of other refrigerants.

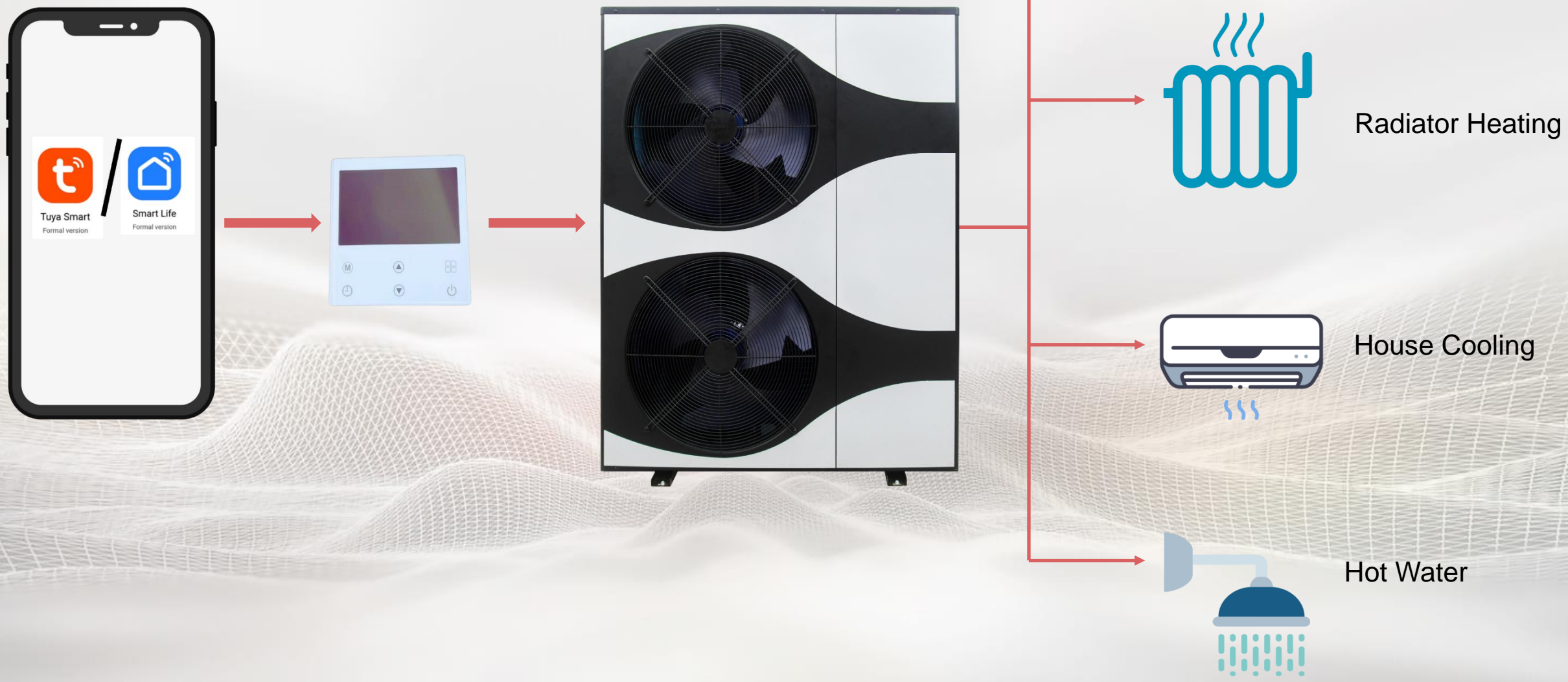


Runs year-round. Heating in winter, cooling in summer

With the WIFI online monitoring, customers will enjoy contactless support from our customer service center no matter where they are.



Solareast's self-developed online intelligent remote control system. The system has highly integrated control functions and can be operated by remote APP. With simple operation and stable performance, it is a truly intelligent The operating system realizes the separation of man and machine.





### **Super low noise fan**

Borderless axial fan with high  
Heat dissipation material, lower  
Resistance, lower vibration  
Lower noise



### **Panasonic DC inverter fan**

Variable speed with lower  
noise, Higher efficiency  
with long lifespan



### **Blue-fin evaporator**

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



### **Four-way valve exchanger**

Rapid defrosting



### **Panasonic DC inverter compressor**

With EVI technology  
-30°C stable working



### **American brand pressure sensor**

High-precision sensing in -60°C to  
150°C operating temp. range



### **High-efficiency plate heat exchanger**

Higher efficiency special design  
With patent

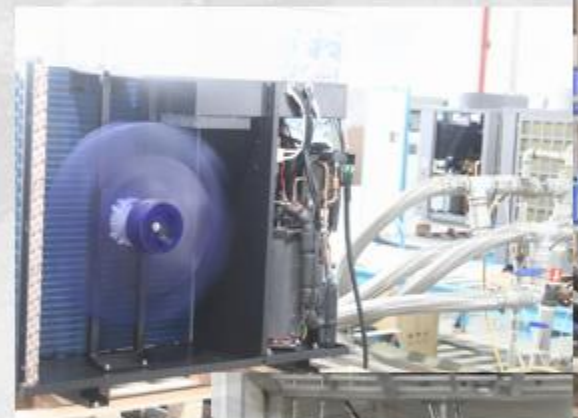




**R32 EVI DC Inverter**  
**Heat Pump**  
**Product Line**

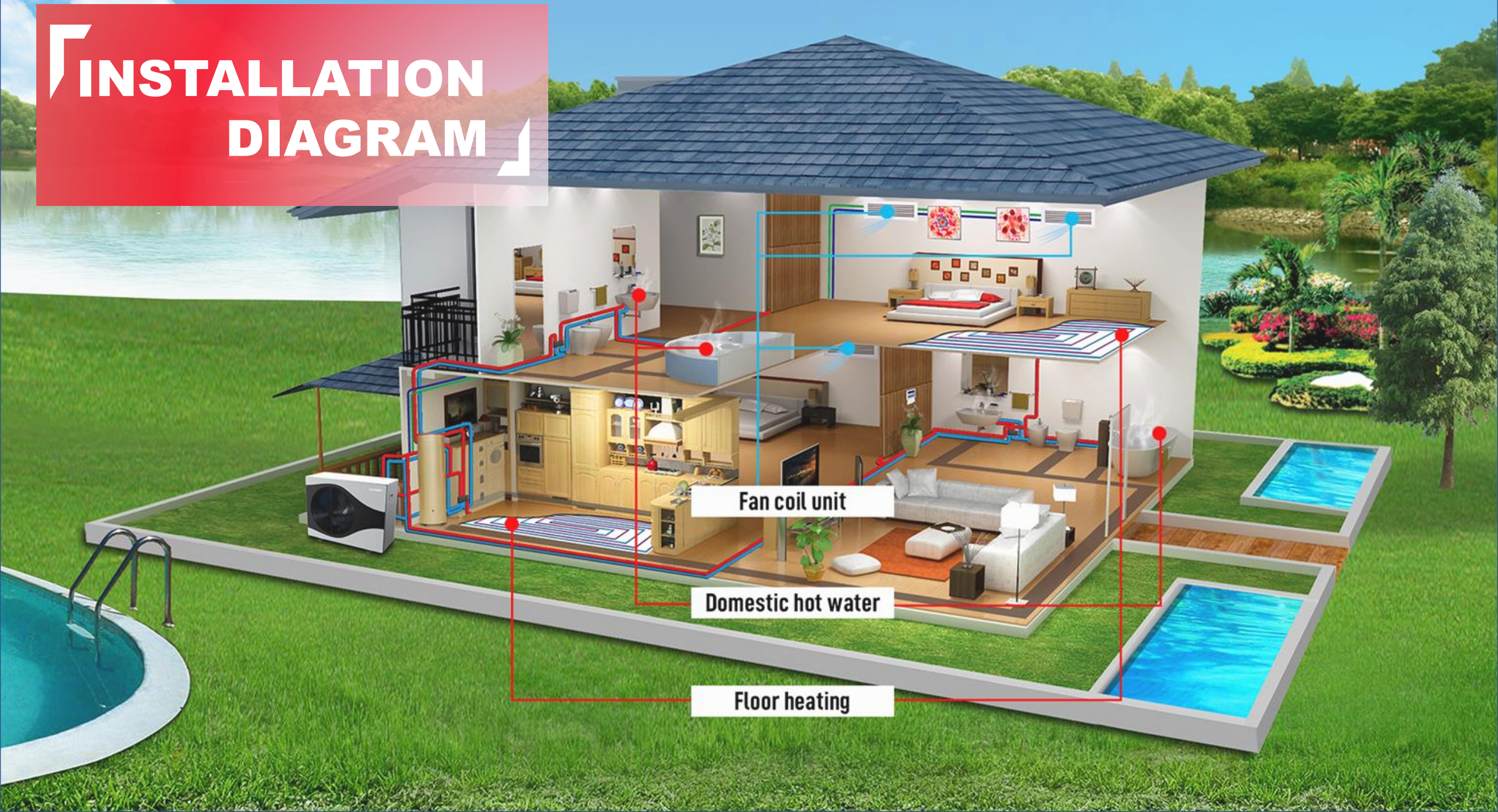








# INSTALLATION DIAGRAM





## R32 EVI DC INVERTER HEAT PUMP MODELS



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							



**PACKING  
DELIVERY**







# SolarEast

<https://www.solareastheatpump.com/>