

R290 ALL IN ONE HEAT PUMP WATER HEATER



BUILDING A ZERO-CARBON WORLD

BOMBA DE CALOR

1.390 €

Montagem opcional

+ 300 €

Total com montagem

1.690 €

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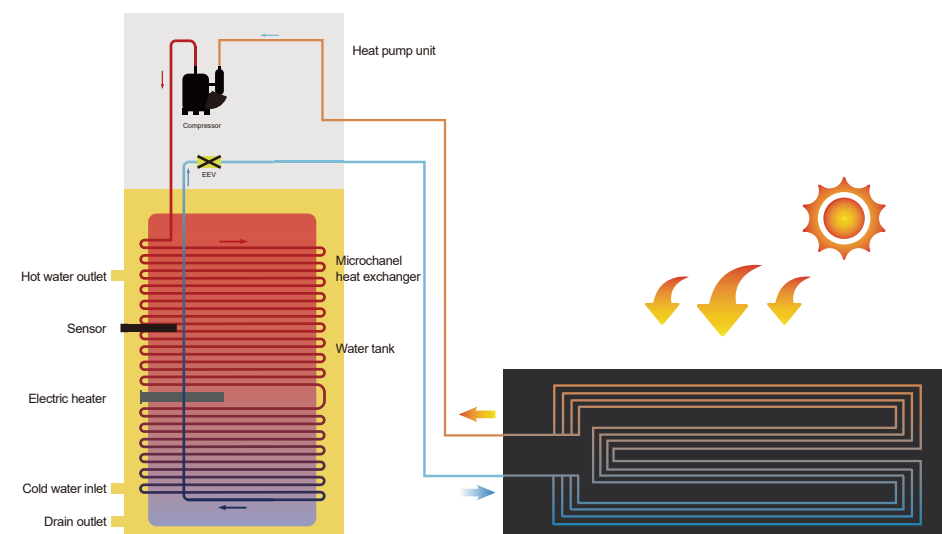


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How it works?

Think of refrigerator working in reverse.

Air source heat pumps are driven by small amount of electricity, absorbing heat energy from the air to heat the cold water; The power consumption is about 1/4 of traditional water heater, and about 1/3 of gas boiler.



To understand the concept of heat pumps, imagine a refrigerator working in reverse. While a refrigerator removes heat from an enclosed box and expels that heat to the surrounding air, a Heat Pump takes the heat from surrounding air and transfers it to water in an enclosed tank.

FEATURES



R290 efficient environment protection refrigerant.



Booster mode makes 70deg.C max hot water.



Noise reduction design provides a super quiet at 43dB.



Backup built-in 1.8kw electric heater gives high efficiency at any conditions.



50mm foaming insulation make sure the heat pump stable working under -7 deg.C



Patented SPD defrosting technology ensures that the heat pump water heater defrosts quickly at low temperatures.



When the water temperature in the water tank is higher than the set value, the backup electric heater will be automatically turned off.



Tank temperature at 60 °C to prevent the growth of bacteria and legionella.



ADVANTAGES



200L / 250L/300L STORAGE VOLUME

Water Storage Capacity: 200L/270L large-capacity water tanks are an ideal choice for water storage equipment, suitable for a variety of scenarios. Selection should be based on specific needs and environmental consider-



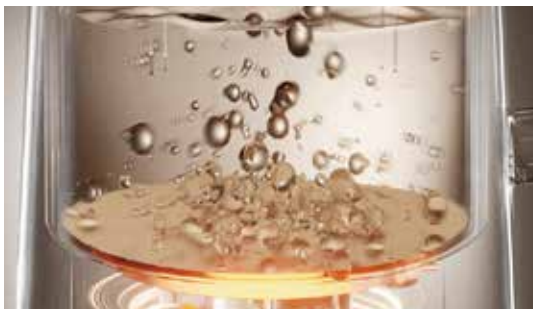
MAX CAPACITY

The large capacity is sufficient for a family's use.It meets the daily water needs of a household, whether for the kitchen, bathroom, or other domestic purposes.



350% EFFICIENCY RATING

A Coefficient of Performance (COP) of up to 350% means that during operation, for every 1 unit of energy consumed, the device can produce 3.5 units of effective energy output.



75°C MAX TEMP.

Efficient heating, capable of quickly providing high-temperature hot water with a maximum temperature of 75 degrees, meets high demands. It reduces energy consumption and lowers operating costs.



4 inch INTELLIGENT MODE

The 4-inch screen is compact in size yet packs a powerful punch. With high-definition resolution, it renders every pixel with remarkable clarity and sharpness. Whether it's intricate data charts or vibrant, colorful images, the screen delivers a fine-grained presentation, ensuring rich, vivid colors and true-to-life reproduction.



High-Efficiency

Micro-Channel Heat Exchange Technology
High Heating Capacity of up to **2.9kW**

Water Temperature Output Up To **75°C**
Prevents Up To **90%** Bacterial Growth
Duplex Stainless Steels 2205 Inner Corrosion Resistance Longer Life Span (optional)

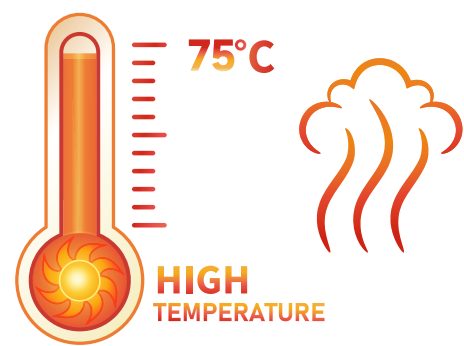
INSTALLATION PARAMETERS



TECHNICAL DATA

Model		SIHP-200TB2		SIHP-250TB2	SIHP-300TB2
Power Supply		220~240V~1/50Hz		220~240V~1/50Hz	220~240V~1/50Hz
Heating Capacity		W	2800	2800	2800
Rated Hot Water Production		L/h	60	60	60
Rated Power Input		W	629	629	629
Rated Current Input		A	2.8	2.8	2.8
COP		W/W	4.45	4.45	4.45
COP (EN16147) 20/15℃		W/W	3.677	3.599	3.691
η (EN16147) 20/15℃		%	151.4	148.3	147.6
V40 (EN16147) 20/15℃		L	263	304	371
Electric Heater	Rated Power Input	W	2000	2000	2000
	Rated Current Input	A	8.9	8.9	8.9
Power Input Max.		W	3000		
Current Input Max.		A	13.3		
Refrigerant Type / Charge / GWP			R290/400g/3	R290/450g/3	R290/450g/3
CO ₂ Equivalent			0.00126t	0.00135t	0.00135t
Working Ambient temperature		℃	-7~46	-7~46	-7~46
Operation Pressure(Low Side)		MPa	0.8	0.8	0.8
Operation Pressure(High Side)		MPa	3	3	3
Maximum Allowable Pressure		MPa	3	3	3
Electrical Shockproof			I	I	I
IP Class			IP1	IP1	IP1
Water Tank Capacity		L	200	250	278
Water Piping Connections		In	3/4	3/4	3/4
Rated Working Pressure Of Tank		MPa	0.8	0.8	0.8
Air flow Rated		m³/h	450	450	450
Unit Dimensions (W/H/D)		mm	1650*φ620	1880*φ620	2050*φ620
Shipping Dimensions (W/H/D)		mm	1755*700*700	1985*700*700	2155*700*700
Noise		dB (A)	48	48	48
Net Weight		kg	95	105	115
Compressor	Brand		Lamda	Lamda	Lamda
	Type		Rotary	Rotary	Rotary
Condenser	Brand	Zhejiang New Jinchen Machinery Co.,Ltd			
	Type	Parallel flow heat exchanger			
Fan Motor	Brand	Foshan Nanhai Nanyang Electric Appliance&Motor Co.,Ltd			
	Type		Centrifugal	Centrifugal	Centrifugal
Water Pump	Brand		/	/	/
	Type		/	/	/
Fin Evaporator	Number of rows		3	3	3
	Tube Diameter		Φ7	Φ7	Φ7
Electronic Expansion Valve			DunAn	DunAn	DunAn
Electrical heater			Foshan Shunde District Dongnike Electric Appliance Co.,Ltd.		
Internet Service Gateway			R485	R485	R485

HEATING PARAMETERS



Operating Modes	Standard, Electric, Boost
Max. Temp. Heat pump	60℃
Max Temp. Element	75℃
Tank Recovery ^(heat pump)	260 minutes*
COP ^(heat pump)	4.15*
Heating capacity ^(heat pump)	2.8kW*
*270L with 40℃ water temperature rise at 19℃ air temperature	

MANUFACTURING LINE



Ultra low temperature enthalpy difference laboratory



All in one heat pump production line

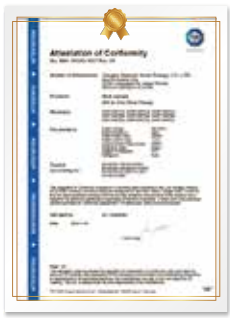
CERTIFICATE ★ ★ ★ ★ ★



ErP CE CB



Heat pump -ERP



Heat pump -CE-LVD