



BEXIE GROUP

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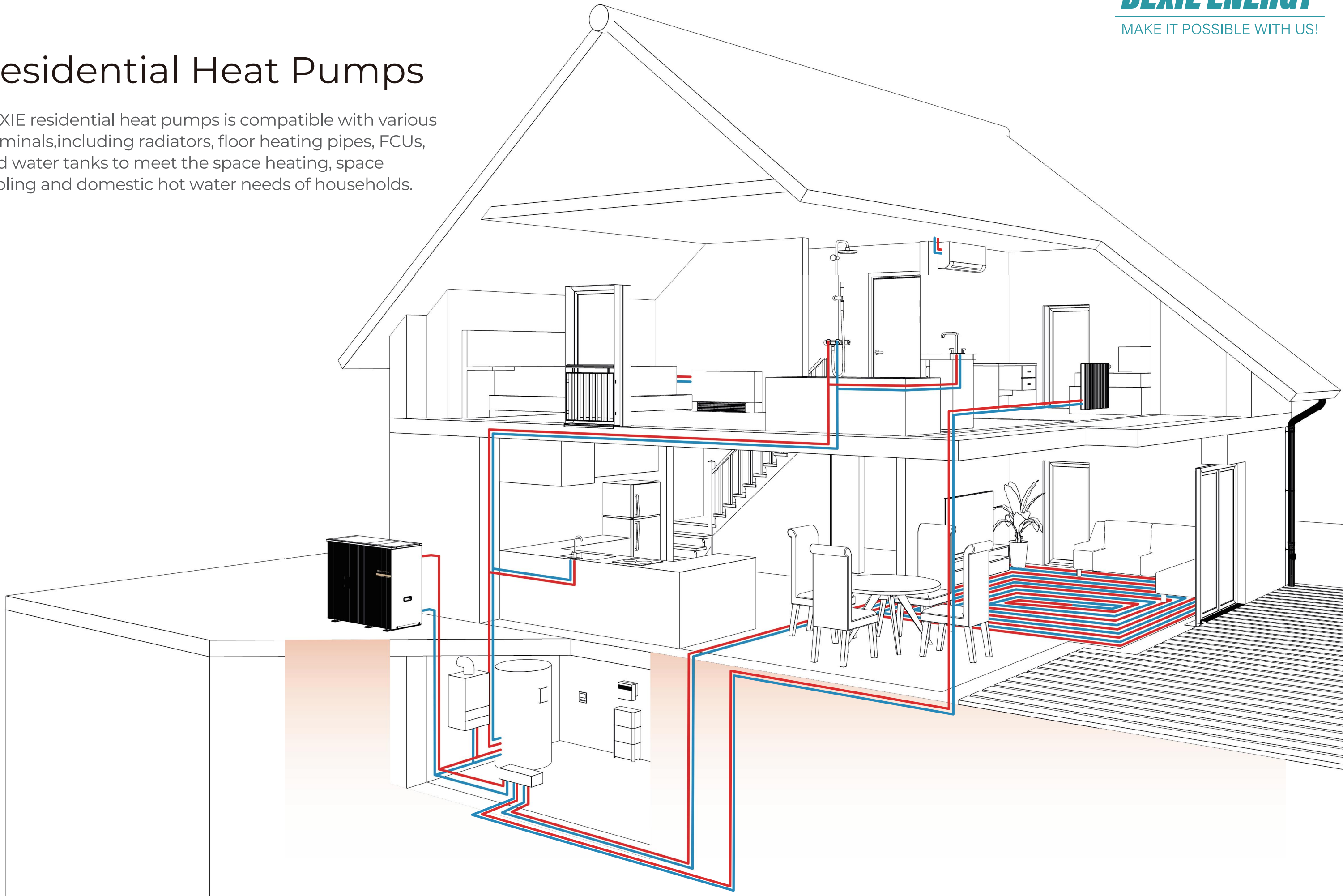
BEXIE GROUP designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells enable us to produce different types of solar panels with highest efficiency.

MONOBLOC HEAT PUMP

Multi purpose solution

Residential Heat Pumps

BEXIE residential heat pumps is compatible with various terminals, including radiators, floor heating pipes, FCUs, and water tanks to meet the space heating, space cooling and domestic hot water needs of households.



BEXIE GROUP residential heat pump can meet the heating and cooling needs of users, improve energy efficiency through advanced technology, the use of environmentally friendly refrigerant, energy saving and environmental protection at the same time to bring users a more comfortable experience.

Is the heat pump noisy during operation?

No, it isn't. BEXIE heat pump operates at a noise level of only 30dB(A) at a distance of 3 meters when running at full load, which is equivalent to the sound of a whisper. This creates a quiet environment, making it ideal for residential areas.

Is the heat pump suitable for old houses and radiators?

Absolutely. BEXIE heat pump can provide water temperatures up to 80°C even at -10°C ambient temperature. It covers more than 98% of European heating scenarios, making it ideal for old building heating and boiler replacement, saving on water system renovation work.

Can the heat pump operate effectively in cold winters?

Yes, it can. BEXIE heat pump can operate efficiently even in extreme cold conditions as low as -25°C. Additionally, it maintains its heating capacity without attenuation at -7°C ambient temperature with 35°C water outlet, ensuring comfort and warmth during the harshest winters.

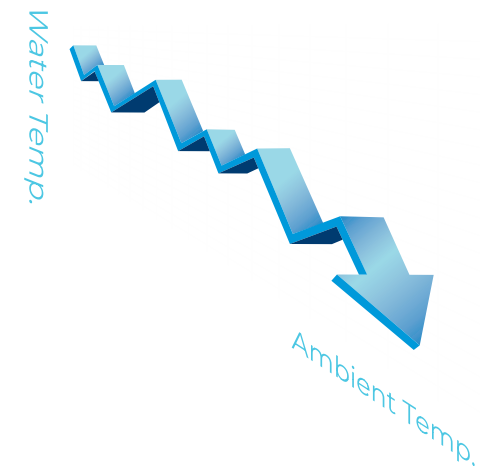
Will using a heat pump result in high electricity bills?

BEXIE series complies with European Union regulations, achieving an A+++ rating at 55°C/35°C water temperature in space heating. This is the highest possible rating for energy-efficient products in the European market, ensuring our customers benefit from high performance at an economical cost.

Climate Curves

Water temperature automatically adjusts in response to ambient temperature to save energy.

- Three types of temperature types: Standard, Custom, and ECO
- 32 standard weather temperature curves
- "Temperature offset" function to control precisely
- Customized curves in different zones and different modes



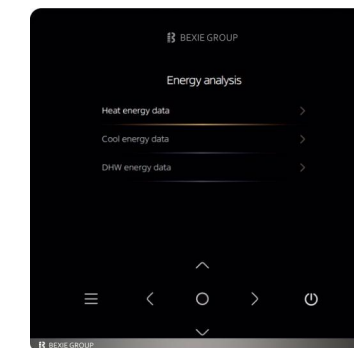
Smart Grid Function

Heat pump adjusts the operation according to different electrical signals. Power consumption of the system can be automatically adjusted according to the peak and valley power to reduce the power consumption to the greatest extent.

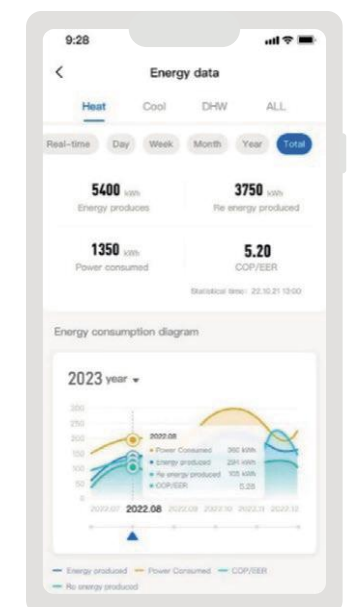
Energy Metering Function

Users have the option to receive a customized energy analysis through the user interface, APP and portal, enabling intuitive, visual energy management which helps guide user behavior to achieve a more energy efficient heat pump system.

Complies with EU Regulations 2018/2001/EU and (EU) 2022/759 for the purpose of receiving subsidies.



Controller



SmartHome

Residential Heat Pumps



Home Star Series
R290 4-16kW



Specifications

Home Star Series

Model		BEMHP-V4WR1P	BEMHP-V6WR1P	BEMHP-V8WR1P
Power supply		220-240/1/50		
Heating A7W35	Capacity	W	4500	6200
	Rated input	W	874	1265
	COP		5.15	4.90
Cooling A35W18	Capacity	W	4500	6500
	Rated input	W	818	1275
	COP		5.50	5.10
SCOP	Average climate, W35°C	A+++		
	Average climate, W55°C	A++		
Refrigerant	Type (GWP)	R290 (3)		
	Charged volume	g	700	1100
Unit dimensions (H*W*D)		mm	1299x717x426	1385x865x523
Packing dimensions (H*W*D)		mm	1375x885x475	1465x1035x560
Net/Gross weight		kg	90/110	117/139
Outdoor air temperature range		°C	-5 ~ 46	
Water setting temperature range		°C	5 ~ 80	

BEMHP-V10WR1P	BEMHP-V12WR1P	BEMHP-V14WR1P	BEMHP-V16WR1P	BEMHP-V12WR3P	BEMHP-V14WR3P	BEMHP-V16WR3P
220-240/1/50				380-41 5/3/50		
10000	12000	14000	15000	12000	14000	15000
2128	2500	3111	3409	2500	3111	3409
4.70	4.80	4.50	4.40	4.80	4.50	4.40
10000	12000	14000	16000	12000	14000	16000
2105	2667	3333	4103	2667	3333	4103
4.75	4.50	4.20	3.90	4.50	4.20	3.90
A+++						
A++						
R290 (3)						
1100	1250					
1385x865x523						
1465x1035x560						
117/139	135/157			137/159		
-5 ~ 46						
5 ~ 80						

Light Commercial Heat Pumps

BEXIE light commercial heat pumps occupy a small area, easy to install and flexible, and the machine energy efficiency is strong, one unit can meet the needs of light commercial building year-round cooling and heating.



A light Commercial Heat Pump That Can Be Installed On A Balcony

Villa Star HP Series unit has models with four capacity ranges: 26kW, 30kW, 35kW, and 40kW, focusing on light commercial applications. It is suitable for villa garden, small office buildings, apartments, hotels and other light commercial application scenarios.

Villa Star HP Series units can be connected in parallel up to 6 units, with a maximum heating capacity of 240kW. Its large capacity can meet the requirements of many commercial applications.

What should be done when the distance between houses is small and it is not possible to install unit with high heating capacity?

Villa Star HP Series unit adopts a side air outlet structure, with a footprint of approximately 0.72 m², a length of 1384mm, and a width of 523mm. When installing, a width of not less than 300mm should be reserved behind the unit.

When the distance between houses is small and it is not possible to install machines on the roof, the special design of the Villa Star structure allows it to be installed in small spaces such as balconies, meeting the user's heating/cooling needs throughout the year.



In light commercial scenarios, different heating temperature requirements often exist in the same building, such as different temperature requirements for shopping areas and office areas, which may have different hot water temperature requirements when using different end units.

The dual-zone control function equipped in Villa Star series unit can perfectly meet the requirements of this scenario. The wired controller can be used to set different water outlet temperatures for two independent zones, providing users with a more comfortable experience.



A Heat Pump That Can Achieve A Leaving
Water Temperature Of Up To 85°C

Heating application scenarios

Some old projects use old cast iron radiators, requiring high water temperatures, and traditional heat pumps cannot directly replace the Boiler



85 °C leaving water temperature at-15°C ambient temperature
80 °C leaving water temperature at-20°C ambient temperature

The high water outlet temperature of Villa Star HP Series unit can meet a wide range of terminal-use scenarios, covering more than 99% of European heating scenarios.

Hot water application scenarios

With just Villa Star HP Series heat pump, it is possible to produce 75°C hot water when the temperature ranges from -20°C to 20°C.



Note: If a higher hot water temperature is required, a water tank with electric heating can be customized.

Light Commercial Heat Pumps



Villa Star HP Series
R290 26-40kW



Villa Star Series
R32 18-30kW

Specifications

Villa Star HP Series

Model			BEMHP-V26WHP3P	BEMHP-V30WHP3P	BEMHP-V35WHP3P	BEMHP-V40WHP3P
Power supply			V/Ph/Hz			
			380~415/3/50			
Heating A7/W35	Capacity	kW	26.0	30.0	35.0	39.0
	Rated input	kW	5.45	6.67	8.40	9.75
	COP		4.77	4.50	4.17	4.00
Cooling A35/W18	Capacity	kW	26.0	30.0	35.0	39.0
	Rated input	kW	5.60	6.80	8.50	9.85
	EER		4.64	4.41	4.12	3.96
Seasonal space heating energy efficiency class	Water outlet at 35°C	Class	A+++			A++
	Type		R290			
Refrigerant	Charged volume	kg	2.9			
	Unit dimension (W×H×D)	mm	1384x1816x523			
Packing dimension (W×H×D)		mm	1480x2000x570			
Net/Gross weight		kg	260/285			
Outdoor air temperature range		°C	-25~48			
Water outlet temperature setting range		°C	0~85			

Villa Star Series

Model			BEMHP-V18WLC3P	BEMHP-V22WLC3P	BEMHP-V26WLC3P	BEMHP-V30WLC3P
Power supply			380-415/3/50			
Heating A7/W35	Capacity	kW	18.00	22.00	26.00	30.10
	Rated input	kW	3.83	5.00	6.37	7.70
	COP		4.70	4.40	4.08	3.91
Cooling A35/W18	Capacity	Btu/h	18.50	23.00	27.00	31.00
	Rated input	kW	3.90	5.00	6.28	7.75
	EER	kW	4.75	4.60	4.30	4.00
Seasonal space heating energy efficiency class	Water outlet at 35°C		A+++	A+++	A+++	A++
	Water outlet at 55°C		A++	A++	A+	A+
Refrigerant	Type(GWP)		R32(675)			
	Charged weight	kg	5.0			
Net dimension (W×H×D)		mm	1129x1558x440			
Packing dimension (W×H×D)		mm	1220x1735x565			
Net/Gross weight		kg	177/206			
Ambient temperature range Cooling		°C	-25~46			
LWT Setting Range Heating		°C	0~60			

Notes:

1. Outdoor air temperature 7°C DB, 6°C WB; Water inlet 30°C, Water outlet 35°C.
2. Outdoor air temperature 7°C DB, 6°C WB; Water inlet 47°C, Water outlet 55°C.