

-38°C POWERFULL HEATING

LOW TEMPERATURE FULL DC INVERTER HEAT PUMP

HEATING • COOLING • HOT WATER



Full DC Inverter



Smart Defrosting



Low Temperature EVI



Wifi intelligent control



Triple Antifreeze



OTA
(Remote view paramters
and updated software)



SG Ready



ZVST
(Zero Vibration Sensation Technology)



Multi Temperature
Zone Control

A white graphic consisting of a large, open square frame with a smaller square nested inside it, positioned to the left of the 'ENTERPRISE CULTURE' text.

ENTERPRISE CULTURE >>>



MISSION

Make the world's best heat pump, make human life warmer!



VISION

Let every family have a comfortable and healthy environment.

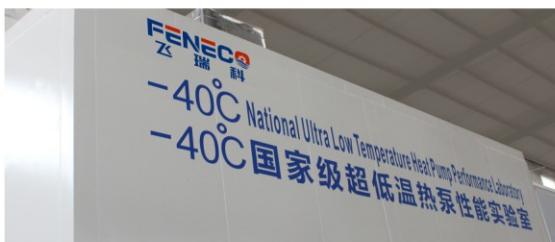


CORE VALUES

Innovation, Honesty, Service, Gratitude.

Company Profile >>>

FENECO New Energy is a national high-tech enterprise specializing in the research and development, production, and sales of heat pumps and commercial air conditioners. The technical research and development team has over 15 years of industry experience, absorbing and introducing advanced technology from European heat pump manufacturing. The company's products include air source heat pumps, water source heat pumps, commercial air conditioners, etc. Mainly serving homes, schools, hotels, enterprises and institutions, it can simultaneously meet multiple needs such as domestic hot water, heating, and cooling. FENECO heat pump products have the characteristics of high energy efficiency, low noise, fast heating, ultra energy-saving, and intelligence. The products meet the requirements of strong heating at -38°C ultra-low temperature in winter and strong cooling at 52°C high temperature in summer.



The company's production base is located in Foshan, Guangdong, with three professional host production lines and an annual output of up to 80000 units. We also have professional inspection rooms, long-term fatigue operation laboratories at -30°C , and comprehensive testing laboratories for explosion-proof heat pumps at -40°C , among other advanced equipment in the industry, to ensure that the products developed and produced can receive comprehensive testing and full validation. The company has passed the export EU CE certification, ISO9001 quality management system certification, and EU Erp energy efficiency certification. Its products are mainly exported to 46 countries and regions such as Europe, the Americas, Australia, Africa, and Southeast Asia, and are highly welcomed and praised by the market and customers.

The company adheres to the principle of "technological innovation, leading service, integrity and win-win, and pursuit of excellence", and is committed to becoming the world's most energy-saving and environmentally friendly technology leading enterprise, making unremitting efforts to create world-class quality products!



Honorary Qualifications



20⁺ Multiple patent certificates, EU CE certification, ISO9001 quality management system certification, etc.



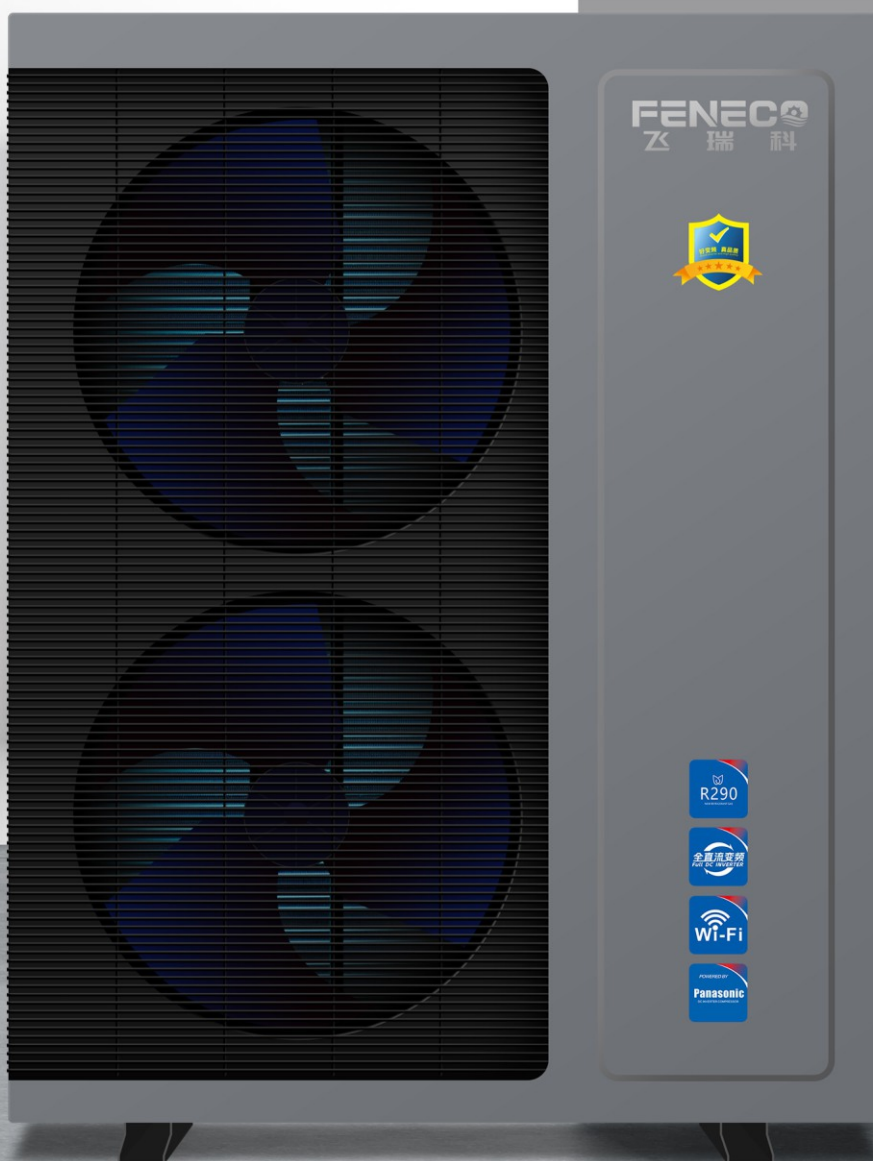
European quality exportd to the world

GLOBAL SALES NETWORK



Polar Bear Series
R290 Full DC Inverter Air Source Heat Pump

HEATING • COOLING • HOT WATER >>>



European A+++ energy efficiency
Saving 75% electricity

Low energy consumption



High energy consumption



• External heat source control



• OTA Remote Control

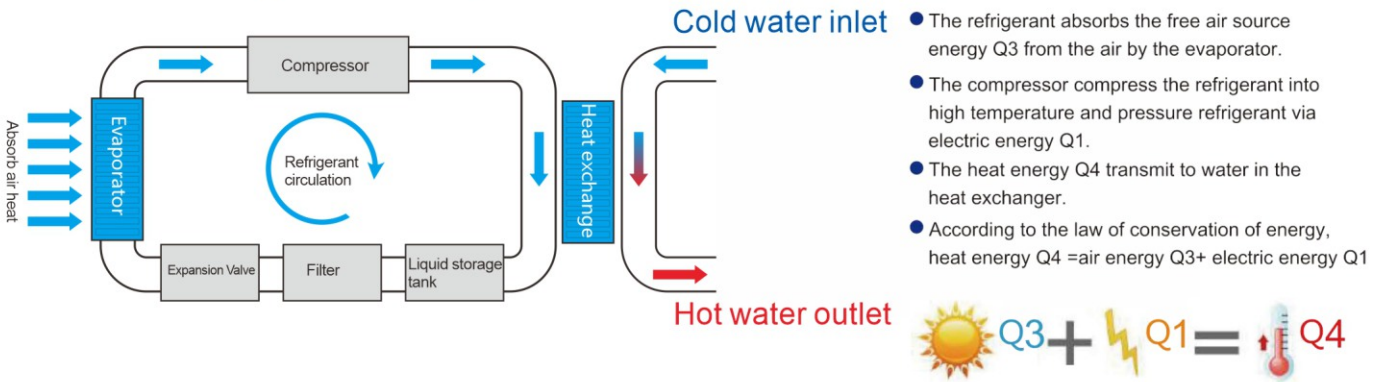


• Hot Water



• Heating Cooling

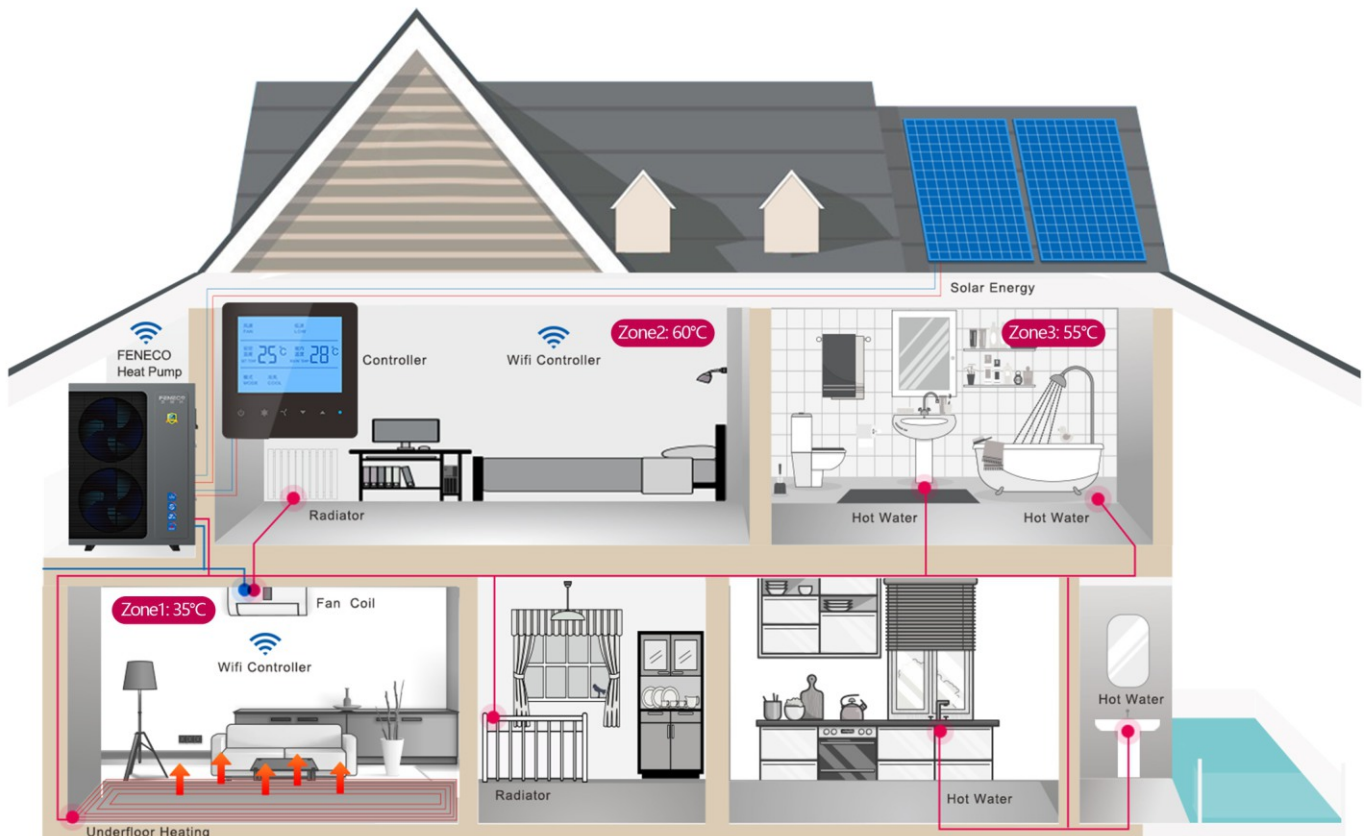
Heat Pump Principle >>>



Multi Temperature Zone Control >>>

Different rooms and different terminals can achieve different water temperature controls.

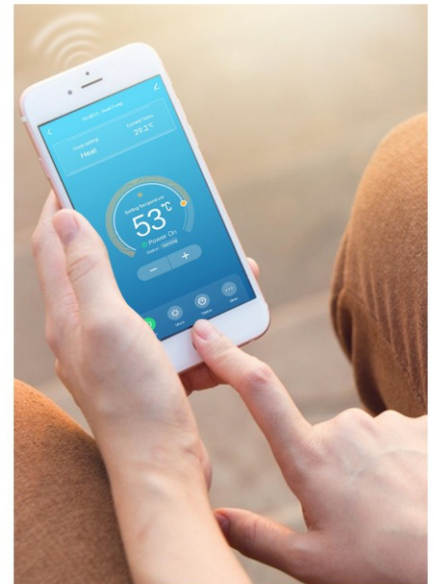
Photovoltaic direct connection. The heat pump directly uses photovoltaic DC power without adding an inverter. It can realize automatic switching between photovoltaic DC power and city power. (Optional function)



Advanced Technology

OTA Remote Intelligent Control >>>

FENECO air source heat pump is equipped with a built-in WiFi module. Users can download an intelligent control app on their mobile phones, monitor the operation status of the heat pump anytime and anywhere, and control the heat pump freely. They can turn on the heat pump from a long distance before returning home, making comfort more timely.



Advanced Technology

Regular Disinfect >>>

The heat pump system performs regular sterilization to ensure the rapid operation of the assembly line. Reduce energy consumption, no need for dedicated personnel on duty, early warning function for abnormality, and simpler operation.



Quick Sterilization



Efficient

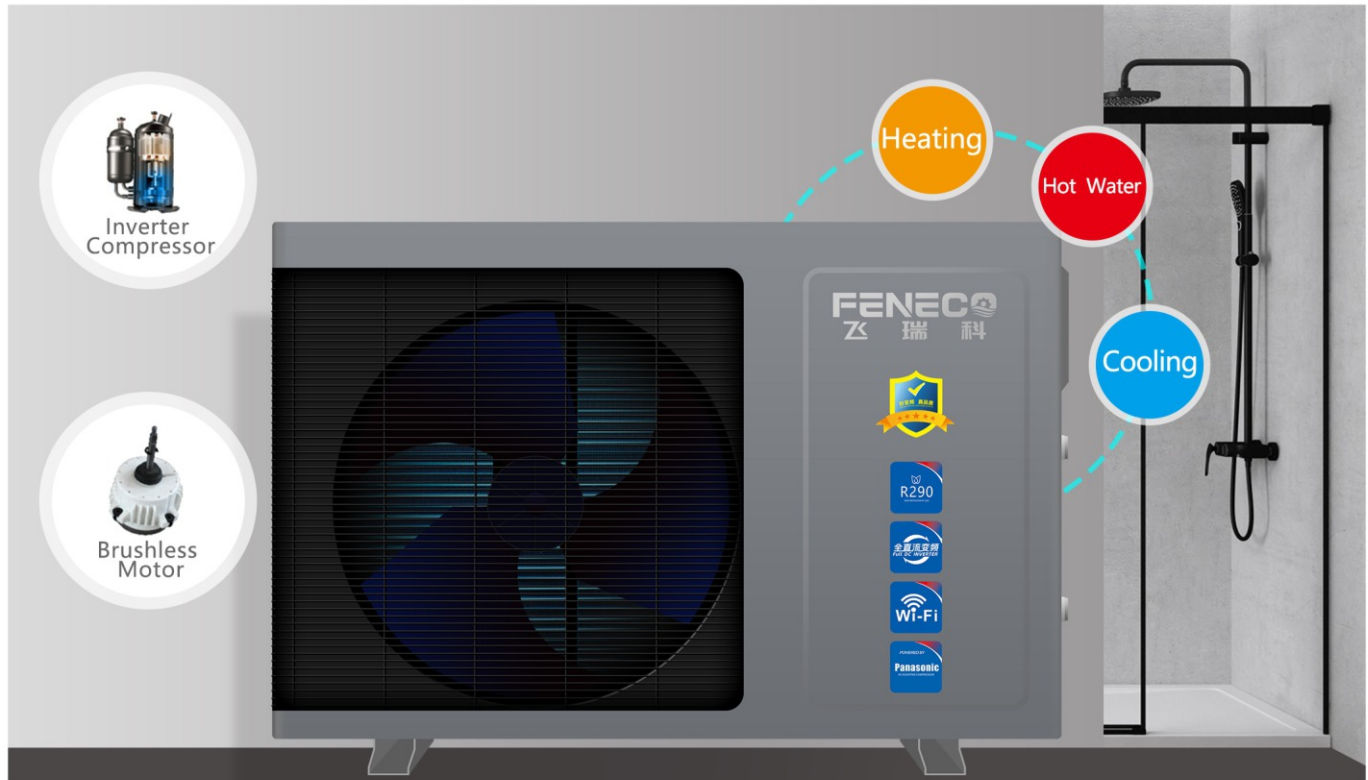


Environmental friendly



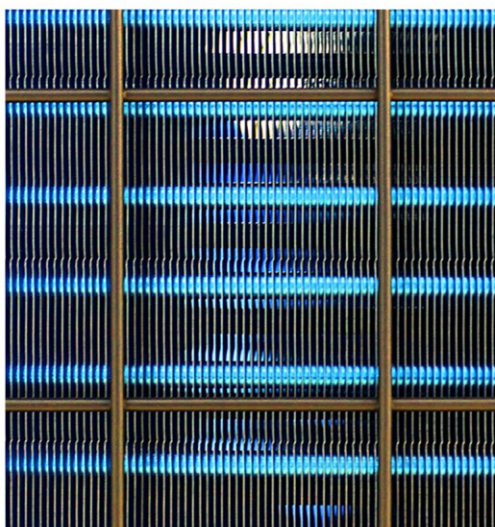
Centralized control of Modbus BMS >>>

All heat pumps can be centrally controlled, monitored and managed conveniently.

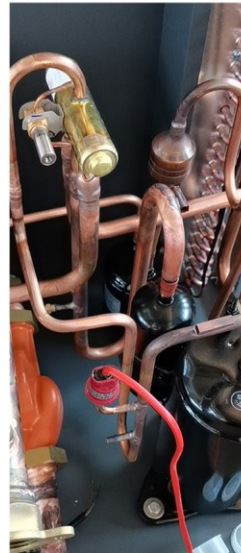
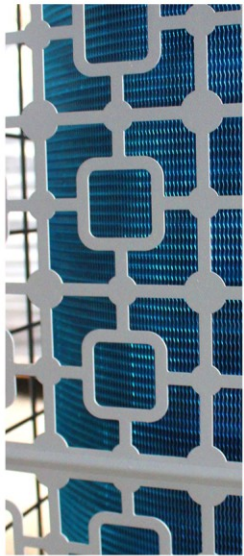


Intelligent defrosting + Ultra-low temperature design >>>

Intelligent fast defrosting technology improves the heating efficiency of the unit and maintains comfort. Even in low temperature environments in the north, it can operate normally. The stainless steel electric heating belt on the chassis quickly defrosts and drains water. The three-level standby automatic anti-freeze protection technology automatically performs anti-freeze protection procedures according to the outdoor environment to ensure equipment safety.



Adopting corrosion-resistant technology, exquisite craftsmanship, high-quality material selection, silent motor+built-in thick soundproof cotton, reasonable optimization management, zero vibration experience.

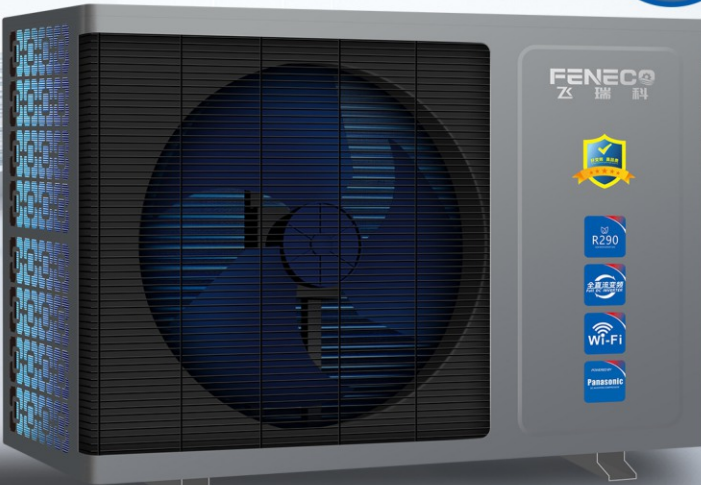


Fully enclosed electric control box design is available. Dustproof and moistureproof. FENECO the full DC variable frequency air source heat pump North Star second-generation adopts a fully enclosed electrical control box design, effectively preventing dust from entering the electrical control box, thereby improving the stability of the product and extending its service life.



Fully Enclosed Electric Control Box

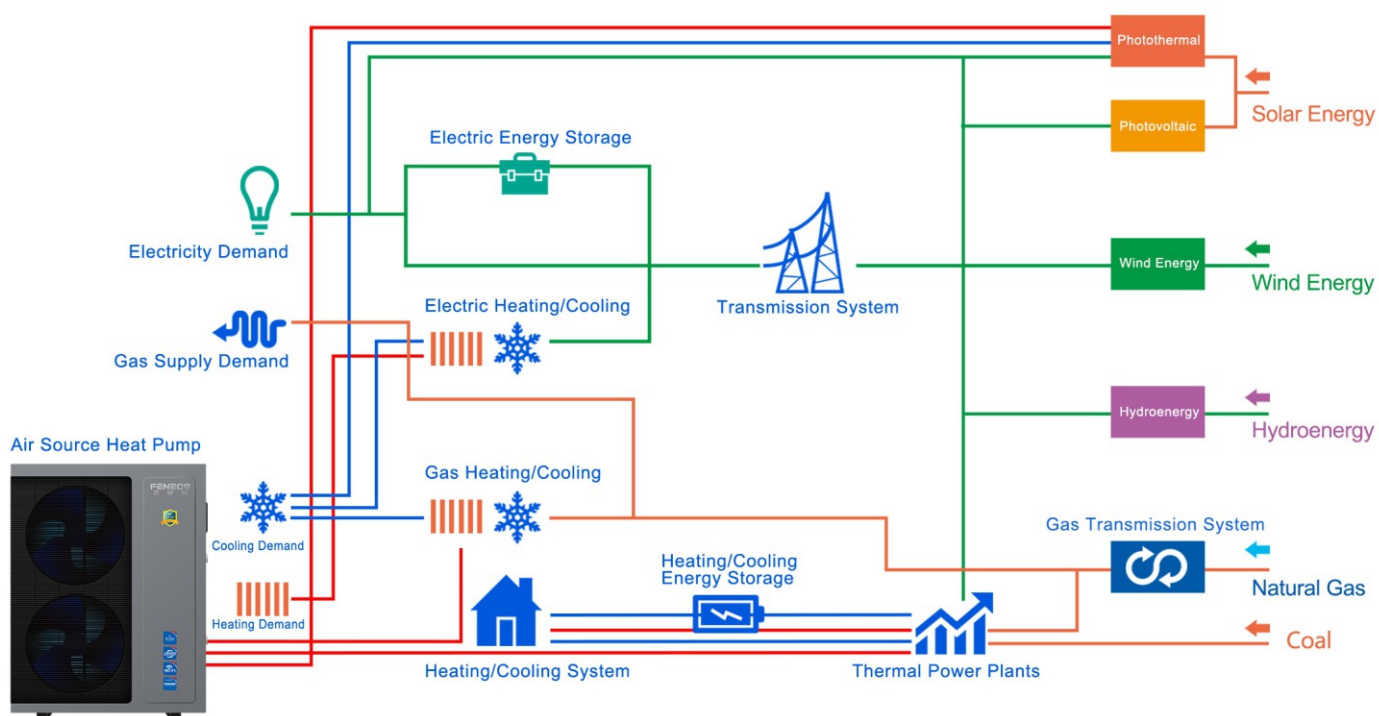
Zero Vibration Sensation DC Inverter Heat Pump Technology >>>



The image shows a large, grey outdoor heat pump unit with a large black fan. On the right side of the unit, there are several logos and labels: 'FENECO', 'R290', 'Wi-Fi', and 'Panasonic'. A circular inset shows a gold coin with 'ZVST' written below it.

- 24-hour hot water Cooling+heating
- Full Dc Inverter
- Ultra low temperature EVI enthalpy increase
- Triple antifreeze
- Efficient and energy-saving

Zero Carbon & ECO Friendly Solution >>>



Product Performance Parameters >>>

Model	FE-03BPM	FE-04BPM	FE-05BPM	FE-06BPM
Power Supply Specifications	220~240V/1N~/50Hz	220~240V/1N~/50Hz	220~240V/1N~/50Hz	220~240V/1N~/50Hz
Applicable Ambient Temperature	-38~43°C	-38~43°C	-38~43°C	-38~43°C
Rated Heating	8kW	12kW	15kW	18kW
Rated Heating COP	4.31	4.07	4.08	4.1
Rated Input Power	2.8	3.5	3.6	4.7
Outlet Water Temperature Water	25~60°C	25~60°C	25~60°C	25~60°C
Production	1300L/h	1500L/h	2000L/h	2500L/h
Refrigerant/Weight	R290 / 1.0Kg	R290 / 1.2Kg	R290 / 1.5Kg	R290 / 1.6Kg
Noise	45~55dB	50~57dB	50~55dB	45~60dB
Compressor	Panasonic / Highly	Panasonic / Highly	Panasonic / Highly	Panasonic / Highly
Dimensions	1110*480*765mm	1110*480*765mm	1110*480*765mm	1060*440*1378mm
Net Weight	83kg	83kg	125kg	125kg

Rated cooling conditions: ambient temperature 35°C, inlet water temperature 12°C, outlet water temperature 7°C;
 rated heating conditions: dry bulb
 temperature 7°C, wet bulb temperature 6°C, inlet water temperature 30°C, outlet water temperature 35°C;
 Inlet air temperature 7°C, outlet air temperature 45°C.

Model	FE-05BPM	FE-06BPM	FE-08BPM	FE-10BPM
Power Supply Specifications	380~415V/3N~/50Hz	380~415V/3N~/50Hz	380~415V/3N~/50Hz	380~415V/3N~/50Hz
Applicable Ambient Temperature	-38~43°C	-38~43°C	-38~43°C	-38~43°C
Rated Heating	15kW	18kW	24kW	32kW
Rated Heating COP	4.2	4.15	4.2	4.1
Rated Input Power	3.95	4.7	5.6	7.3
Outlet Water Temperature Water	25~60°C	25~60°C	25~60°C	25~60°C
Production	2000L/h	2500L/h	3000L/h	4500L/h
Refrigerant/Weight	R290 / 1.5Kg	R290 / 1.6Kg	R290 / 1.9Kg	R290 / 2.2Kg
Noise	45~60dB	45~60dB	45~65dB	45~65dB
Compressor	Panasonic / Highly	Panasonic / Highly	Panasonic / Highly	Panasonic / Highly
Dimensions	1110*440*765mm	1060*440*1378mm	1150*480*1460mm	1150*480*1460mm
Net Weight	125kg	135kg	200kg	220kg

Product advantages >>>



Safe and reliable

Adopting air source heat pump technology, water and electricity separation, eliminating safety hazards!



Intelligent control

The unit is controlled by a microcomputer and does not require dedicated management.



Energy saving

An air source heat pump heats by absorbing the free energy of the surrounding air. Compared with traditional electric heating methods, it can save up to 80% energy.



24/7 operation

Safe operation 24/7 throughout the year, enjoying 24-hour central hot water.



Protect the environment

No exhaust gas generation, reducing CO2 emissions, saving liquefied gas and power. Heat pump technology for protecting ecological sustainability.



Featured

Domestic hot water, heating, and cooling; Industrial hot water, electroplating, bleaching and dyeing. Drying, heating, etc.



Widely used

Family, villa, school, hospital, factory dormitory, hotel, restaurant. Swimming pools, industries, etc



Easy to install

The unit has a compact structure and a small footprint, eliminating the need for a dedicated computer room.

-38°C Powerful Heating · High Efficiency · Energy Saving



Heating



Hot-Water



Cooling



Swimming Pool



Dry

After-sales Service System



Consulting



During the warranty period, free warranty will be implemented, and after the expiration of the warranty period, the company will still provide after-sales service for product equipment



Free installation and design guidance



24-hour service



Tel/whatsapp

008613500262969
008618818729987

Service process



Repair report

If you encounter after-sales problems, please contact local service or call service hotline 4000-969819



Response

Within 30 minutes, the after-sales engineer will respond by phone and schedule a visit time



Service

Sales engineers provide on-site service according to the scheduled time



Check and accept

Confirmed and signed by the repair applicant for acceptance



Call back

Call you within 72 hours



Finish



VISION >>>

Let every family have a comfortable and healthy environment.

PROJECT CASES >>> Global 100000⁺



A one-stop solution for a comfortable and healthy environment system



Tel/whatsup

008613500262969 008618818729987

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Official account



Official website