

COMMERCIAL >>> Heating And Cooling Heat Pump

-38°C



Providing Powerful Heating Under -38°C Temperature



Smart Defrosting



Low Temperature EVI



Wifi intelligent control



Triple Antifreeze



OTA
(Remote view parameters
and updated software)



SG Ready



Multi Temperature
Zone Control



Efficient And Energy-Saving

A white graphic element consisting of a large, open square frame with a smaller square inside, positioned behind the 'ENTERPRISE CULTURE' text.

ENTERPRISE CULTURE >>

A small red square icon with a white diagonal line.

MISSION

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

A small red square icon with a white diagonal line.

VISION

Let every family have a comfortable and healthy environment.

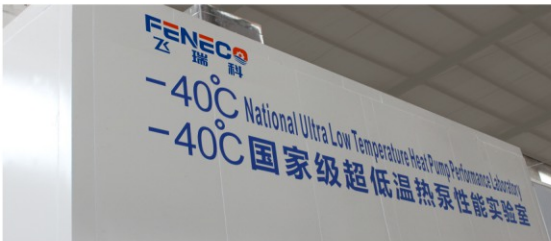
A small red square icon with a white diagonal line.

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.

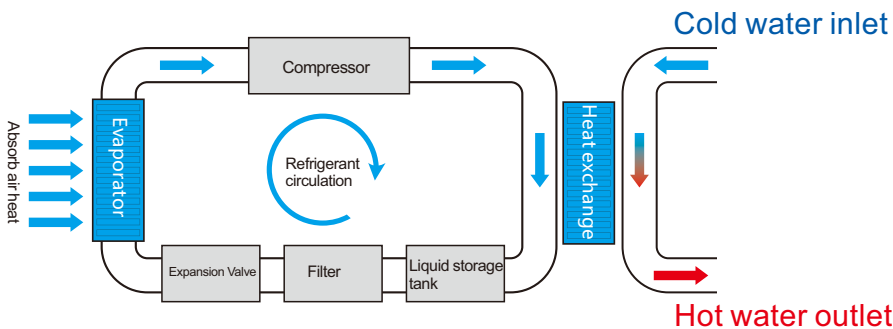


European quality exportd to the world

GLOBAL SALES NETWORK



Heat Pump Principle >>>



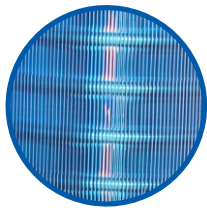
- The refrigerant absorbs the free air source energy Q3 from the air by the evaporator.
- The compressor compress the refrigerant into high temperature and pressure refrigerant via electric energy Q1.
- The heat energy Q4 transmits to water in the heat exchanger.
- According to the law of conservation of energy, heat energy $Q4 = \text{air energy } Q3 + \text{electric energy } Q1$

$$\text{Sun} Q3 + \text{Lightning} Q1 = \text{Thermometer} Q4$$

Heat Pump Main Components >>>

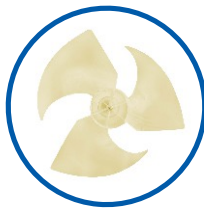
Evaporator

High efficiency hydrophilic Aluminum foil
fine evaporator Large amount of air inlet



Fan

Optimized duct and quiet design



Motor

DC inverter brushless motor



Contactor

Famous brands such as Schneider



Motherboard

Efficient operation
intelligent control



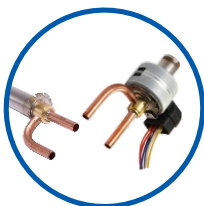
Compressor

Adopting well-known brands such as Mitsubishi / Panasonic for DC variable frequency compressors, it has high efficiency, low noise, and long service life.



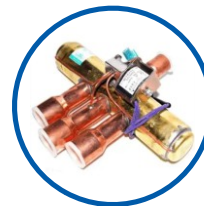
Electronic expansion valve

EEV or TEV, Precise flow control Saginomiya, SANHUA etc.



Four-way valve

Famous brand, fully automatic



Heat exchanger

Famous brand High-efficiency Heat exchanger or
Brazed plate Heat Exchanger



Heat Pump Heating Technology >>>

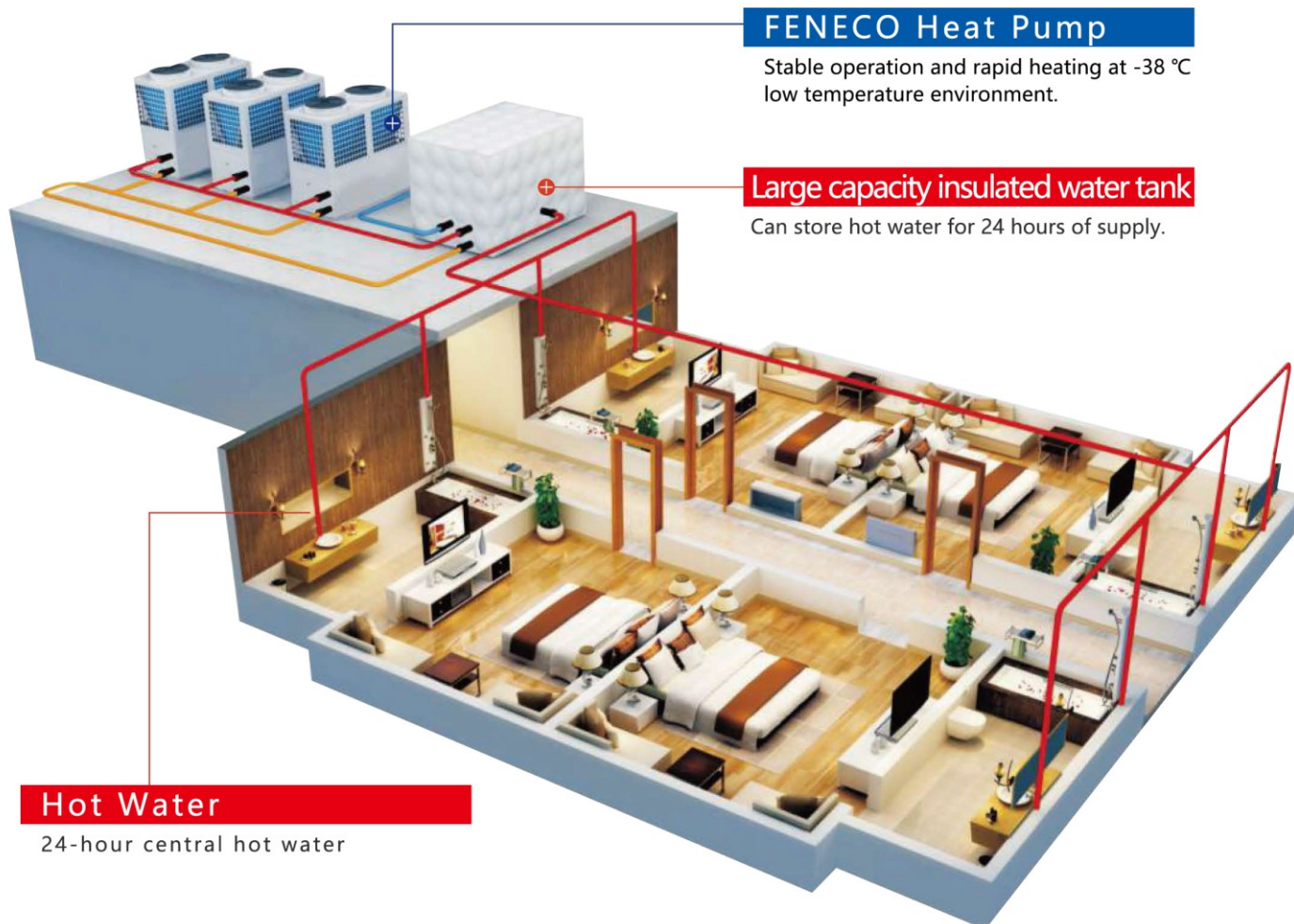
The air source heat pump heating system consists of an outdoor air source host, an indoor floor heating system, and an intelligent controller. During heating operation, the air source heat pump absorbs energy from the outdoor air, heats it up to the available heat for floor heating, and sends it indoors to achieve the purpose of winter heating. The intelligent controller is an important component for controlling the operation of the system, achieving indoor heating, and achieving good economic efficiency. Due to the lack of combustion process in heat pump heating, it is an environmentally friendly technology. Compared with direct electric heating and gas wall mounted boilers, the COP is greater than 3, indicating good energy efficiency.



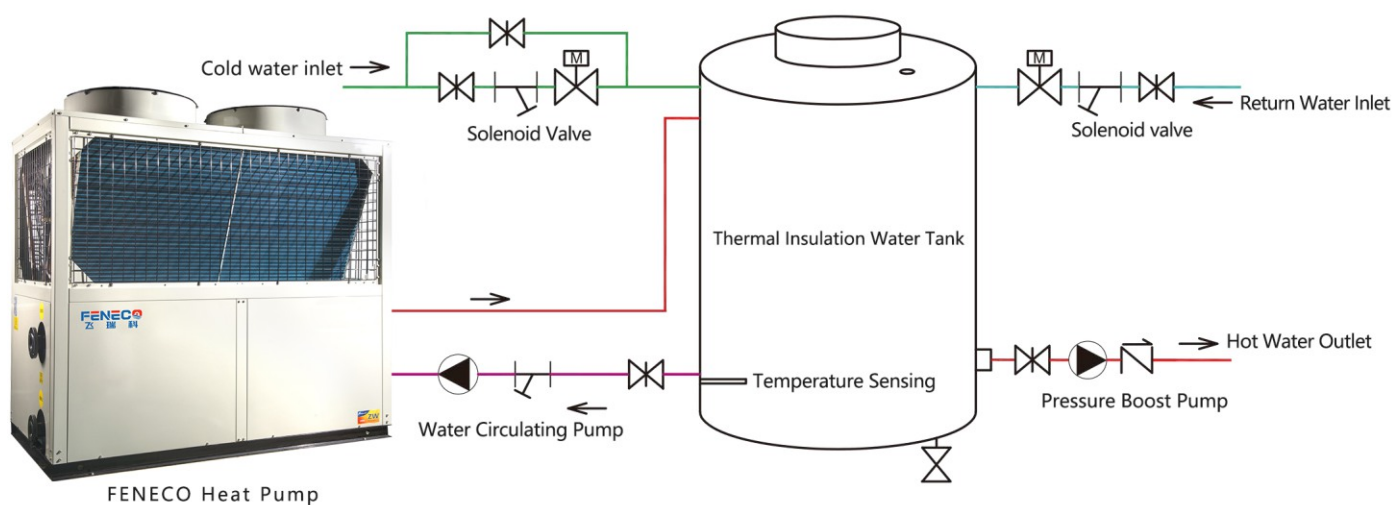
Heating Area Heat Index For Various Types Of Buildings (W/m²) >>>

Building	Residence	Residential complex	School	Hospital	Hotel	Shop	Restaurant	Cinema	Gymnasium
No energy-saving measures have been taken	58~64	60~67	60~80	65~80	60~70	65~80	115~140	95~115	115~165
Energy saving measures have been taken	40~45	45~55	50~70	55~70	50~60	55~70	100~130	80~105	100~150

SUITABLE FOR HOTELS, APARTMENTS, HOSPITALS, AND LARGE COMMERCIAL VENUES



INSTALLATION DIAGRAM OF HEAT PUMP



COMMERCIAL >>> HEATING AND COOLING MACHINE

- Powerful heating, low temperature and efficient operation
- Comfortable cooling, gentle and non irritating
- Sustainable and environmentally friendly refrigerant
- Intelligent control, high efficiency and energy saving

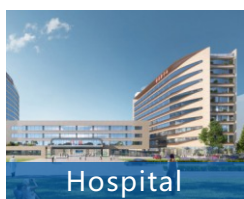


Smarter and more convenient

Copeland/Panasonic heat pump dedicated high-efficiency compressor, optional EVI low-temperature spray enthalpy, providing strong heating under -30°C ultra-low temperature.



Electronic expansion valve throttling, high-density gear high-efficiency tube-in-shell heat exchanger, blue hydrophilic fin evaporator, Schneider AC contactor, thickened sheet metal.

Over current protection, phase sequence protection, three-level antifreeze protection, high and low voltage protection and other safety protections, power failure memory function, automatic diagnosis function. Smart Wifi control.



Commercial Heat Pump Water Heater



product type			
Model		FE-BKH12D	FE-BKH15D
Rated (7°C)	Heating Capacity(kW)	40	45
	Input power(kW) current (A)	11.05/16.8	12.46/23.1
	COP W/W	3.62	3.61
Rated (-12°C)	Heating Capacity(kW)	24	30
	Input power(kW) current (A)	9.4	11.5/21.3
	COP W/W	2.6	2.6
	IPLV(H)W/W	2.81	2.81
Cooling Rated (35°C)	Cooling Capacity(kW)	30	35
	Input power(kW) current (A)	9.3/14.2	10.8/20.0
	COP W/W	3.24	3.24
	IPLV © W/W	4.01	4.01
Power specifications		380V3N~/50Hz	380V3N~/50Hz
Refrigerant		R410A	R410A
Waterway interface		DN40(outer teeth)	DN40(outer teeth)
Water flow rate -12 ° C temperature		4.5m³/h	5.2m³/h
Heat exchanger	Water side	Shell and tube heat exchanger	Shell and tube heat exchanger
	Air side	Finned heat exchanger	Finned heat exchanger
water pressure(kpa)		40	45
Noise		65	68dB(A)
Fan		Axial flow fan X2	Axial flow fan X1
Air outlet		Top air outlet	Top air outlet
size(mm)		1485X755X1065	1060X 1004X 2065
Weight(kg)		260	400

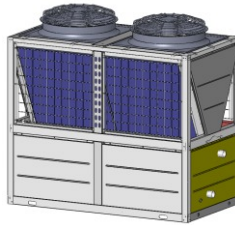
- The unit, parameters, and performance may change due to product upgrades without prior notice. Please refer to the product nameplate for specific parameters.
- The maximum current of the unit does not include electric heating current.

Heat Pump

Low Temperature Heating and Cooling



product type

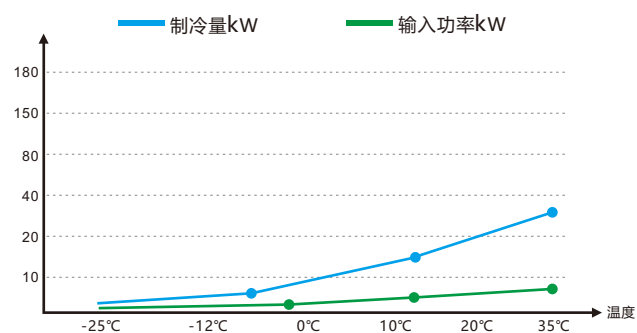
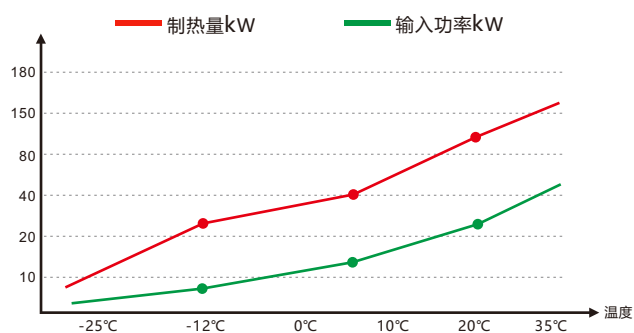


Model		FE-BKH20D	FE-BKH25D	FE-BKH30D	FE-BKH50D	FE-BKH60D
Rated (7°C)	Heating Capacity(kW)	60	80	90	160	180
	Input power(kW) current (A)	16.7/25.5	22.16/41.1	24.9/46.1	44.32/82.1	49.8/92.2
	COP W/W	3.61	3.61	3.61	3.61	3.61
Rated (-12°C)	Heating Capacity(kW)	45	51	60	100	120
	Input power(kW) current (A)	17.3	19.6/36.3	23/42.6	38.5/71.3	46.2/85.4
	COP W/W	2.6	2.6	2.6	2.6	2.6
	IPLV(H)W/W	2.81	2.81	2.81	2.81	2.81
Cooling Rated (35°C)	Cooling Capacity(kW)	55	65	70	126	140
	Input power(kW) current (A)	16.98/26	20.06/37.2	21.6/40.0	39/72.3	43.3/80.2
	COP W/W	3.24	3.24	3.24	3.23	3.23
	IPLV© W/W	4.01	4.01	4.01	4.05	4.05
Power specifications		380V3N~/50Hz	380V3N~/50Hz	380V3N~/50HZ	380V3N~/50H	380V3N~/50Hz
Refrigerant		R410A	R410A	R410A	R410A	R410A
Waterway interface		Dn65 (flange)				
Water flow rate -12 ° C temperature		7.8m³/h	8.8m³/h	10.3m³/h	17.2m³/h	20.6m³/h
Heat exchanger	Water side	Shell and tube heat exchanger				
	Air side	Finned heat exchanger				
water pressure(kpa)		55	55	55	55	55
Noise		70dB(A)	70dB(A)	70dB(A)	75dB(A)	75dB(A)
Fan		Axial flow fan X2				
Air outlet		Top air outlet				
size(mm)		2050X890X1710	2050X890X1710	2262X1200X 2095	2260 X 1175 X2330	2260 X 1175 X2330
Weight(kg)		600	680	700	1250	1250

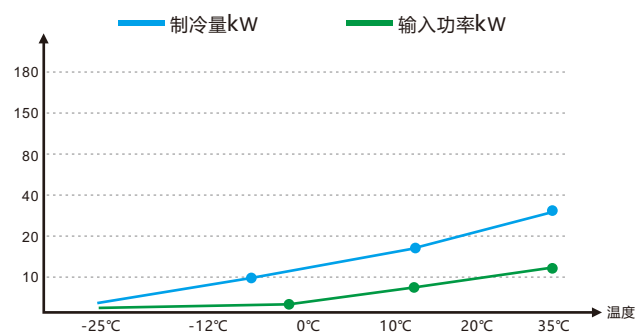
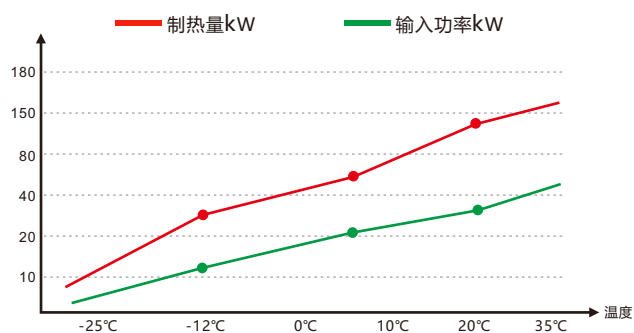
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Operating condition curve chart >>>

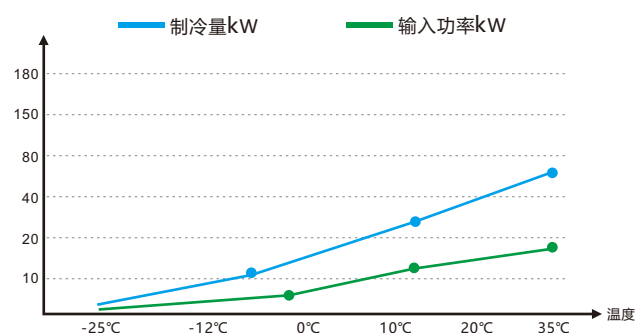
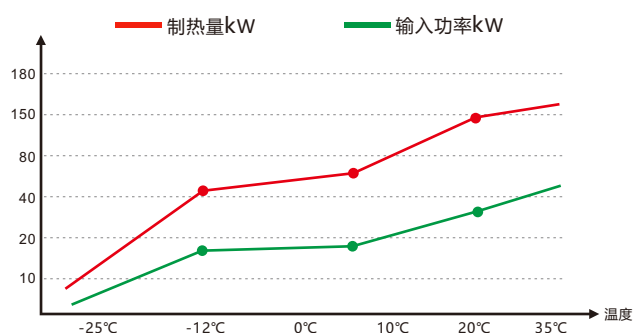
FE-BKH12D



FE-BKH15D

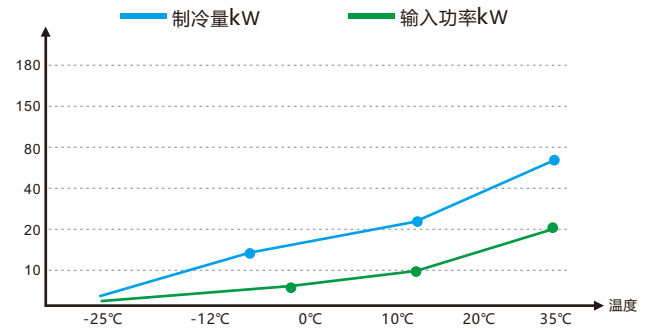
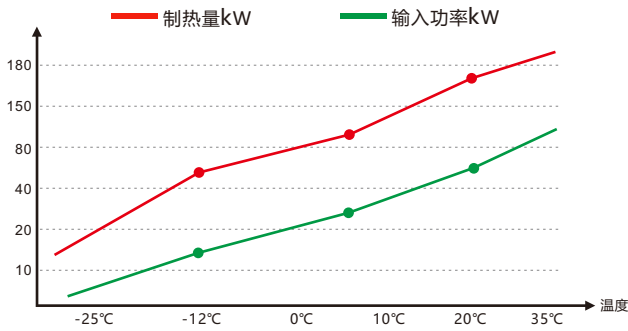


FE-BKH20D

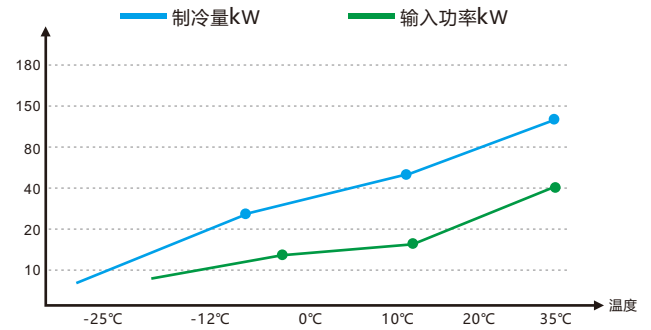
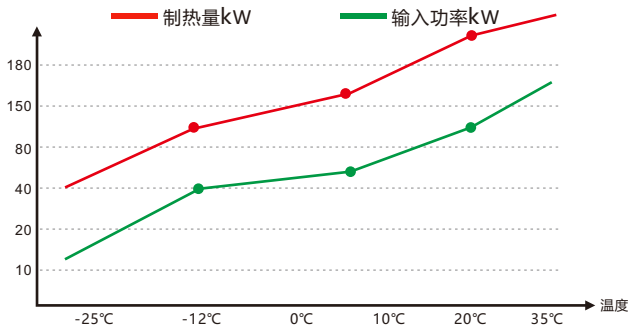


Operating condition curve chart >>>

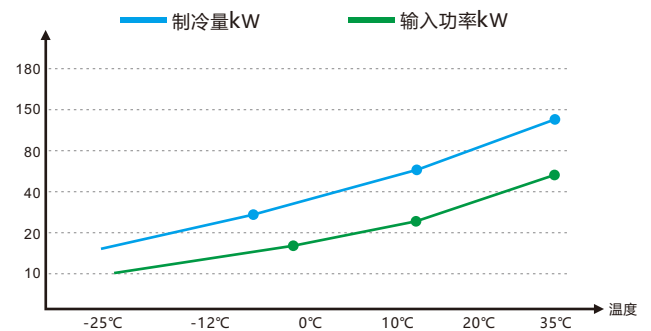
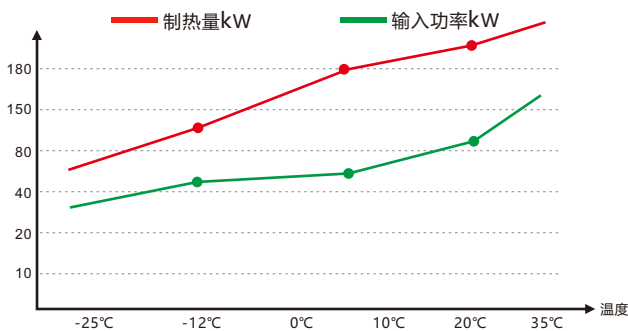
FE-BKH30D



FE-BKH50D



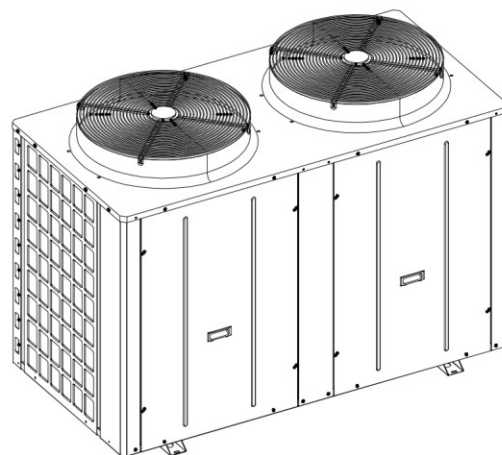
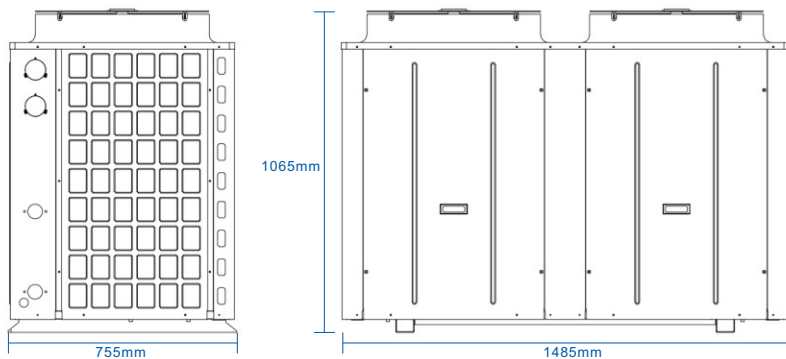
FE-BKH60D



Appearance size >>>

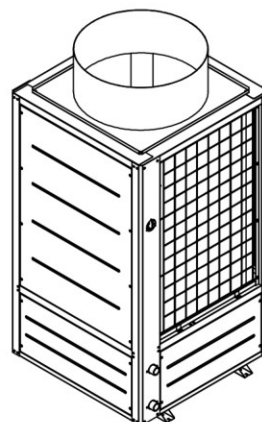
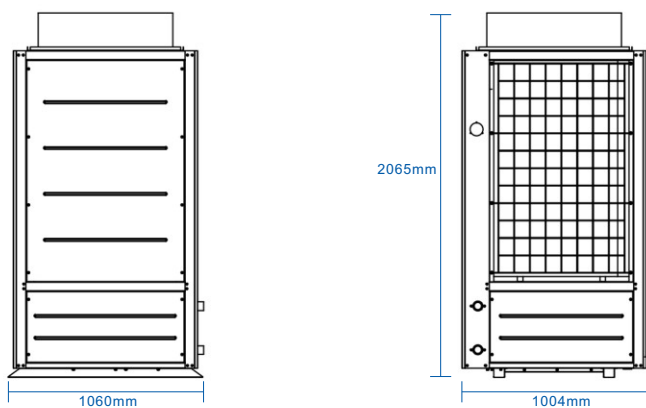
FE-BKH12D

SIZE

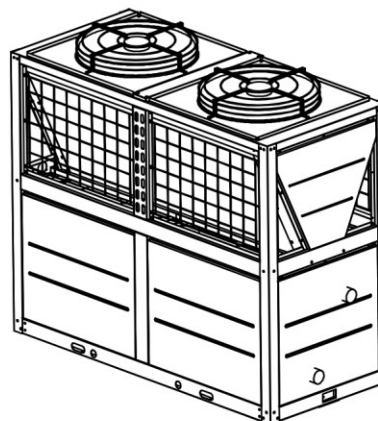
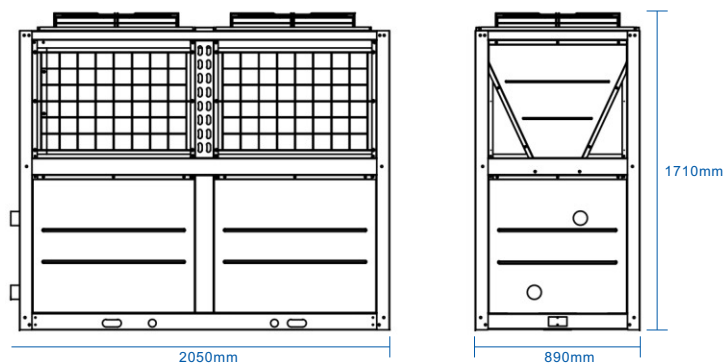


FE-BKH15D

SIZE



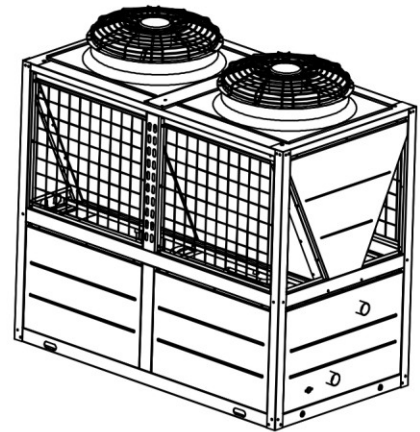
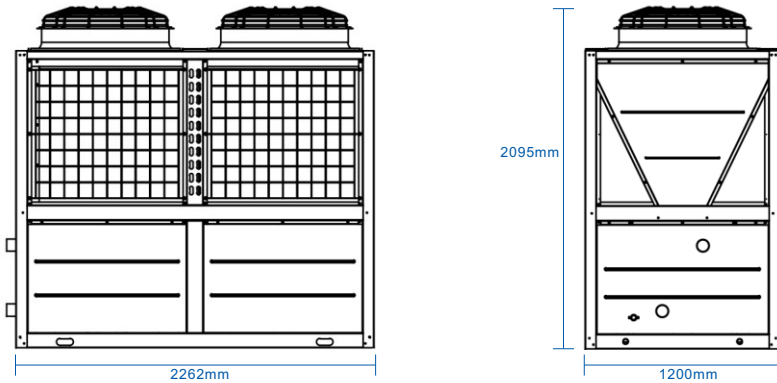
FE-BKH20D/25D



Appearance size >>>

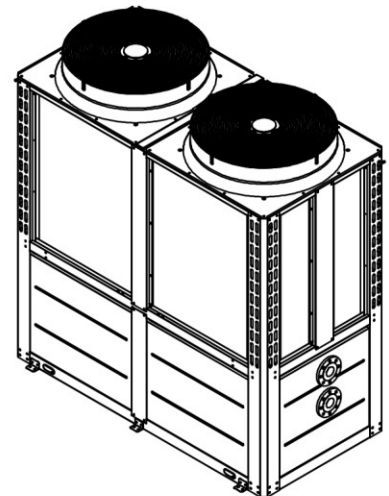
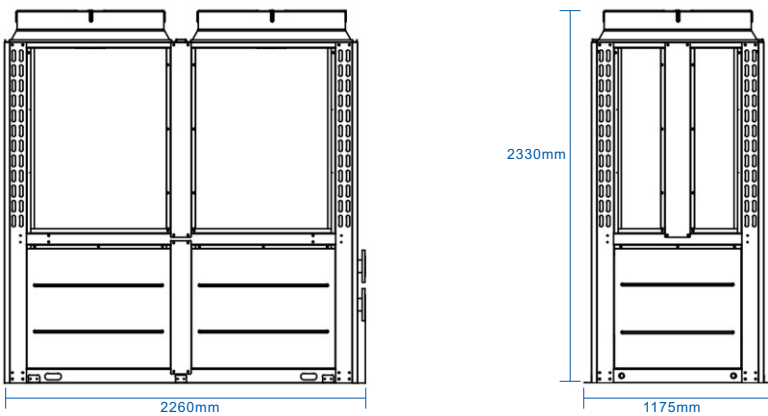
FE-BKH30D

SIZE



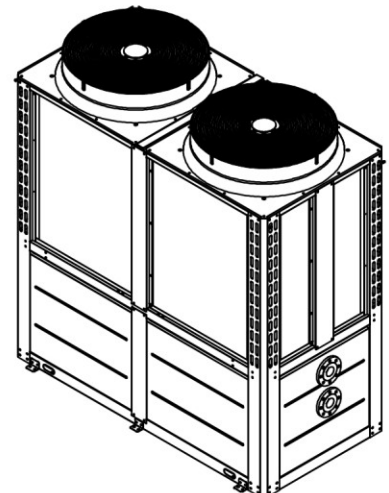
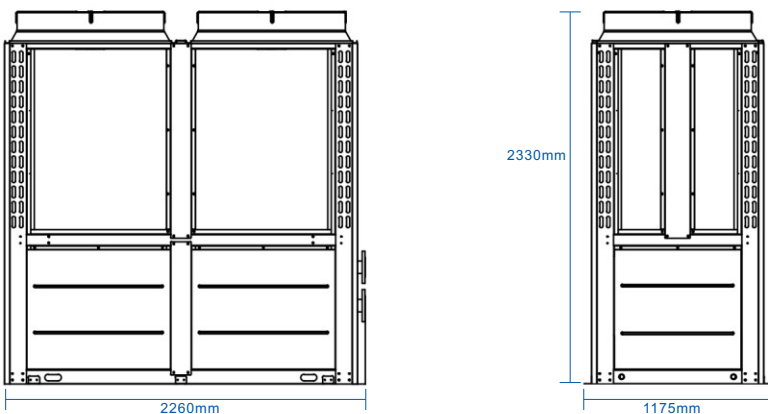
FE-BKH50D

SIZE



FE-BKH60D

SIZE



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

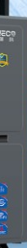
Family, villa, school, hospital, factory dormitory, hotel, restaurant, swimming pools, industries, etc



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



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

PROJECT CASES >>>



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



Tel/whatsup

008613500262969 008618818729987

GuangDong Feneco New Energy Co., Ltd

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Official account



Official website