

AIROSD 欧思丹
高速热泵新时代
New Era of High Speed Heat Pump

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HEAT PUMP CATALOGUE

WATER HEATER / HEATING & COOLING HEAT PUMP MANUFACTURER



FOSHAN AIROSD THERMAL TECHNOLOGY CO., LTD.



About AIRQSD



Foshan AiroSD Thermal Technology Co., Ltd. is a professional heat pump manufacturer. We are specialized in research, production and sales of air source heat pump and providing a solution for the residential and commercial heat pump systems.

AIROSD were awarded as the National New High-tech enterprises Product Certificate, and has obtained the certificate for ISO9001 quality management system, ISO 14001 environment management system, OHSAS18001 occupational health and safety management system, China compulsory product certification, energy conservation product etc. We have 2 production bases and the production output up to annual 1,000,000 sets of heat pump.

Our company has successfully obtained most of the world well know certificates, including CE, CB, ERP, RoHs, UL etc. Through several years R&D, AIROSD marketing net have covered more than 30 countries and regions all over the world.

AIROSD is trying hard to be global customer's favorite brand. Through continuous improvement in the quality of products and the standing with the global partners, we are committed to promote low-carbon lifestyle, improve the environment and people's lives.



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AIRQSD opens a new era of high speed heat pump



- National New and High-tech Enterprise Certificate
- New and High-tech Product Certificate System
- The Most Growing Brand of Heat Pump Industry in China
- Asian Brand Management Institute "European Heating Heat Pump Technology Innovation Leading Brand"
- Emerson Cup Best Residential Heat Pump Award
- China Certificate for Energy Conservation Product
- ISO9001 Certificate of Quality Management System
- ISO14001 Certificate of Environment Management System
- OHSAS18001 Occupational Health and Safety Management System Certificate
- National Industrial Production License



New and High-tech Product Certificate



ISO14001 Certificate of Environment Management System



ISO9001 Certificate of Quality Management System



OHSAS18001 Occupational Health and Safety Management System



Certificate for China Compulsory Product Certification



Certificate for China Compulsory Product Certification



CE Certification



CE Certification



Emerson Cup Best Residential Heat Pump Award



2016 Top Ten Most Growing Brands in China's Heat Pump Industry



Asian Brand Management Institute "European Heating Heat Pump Technology Innovation Leading Brand"



The Most Growing Brand of Heat Pump Industry in China



New and High-tech Enterprise

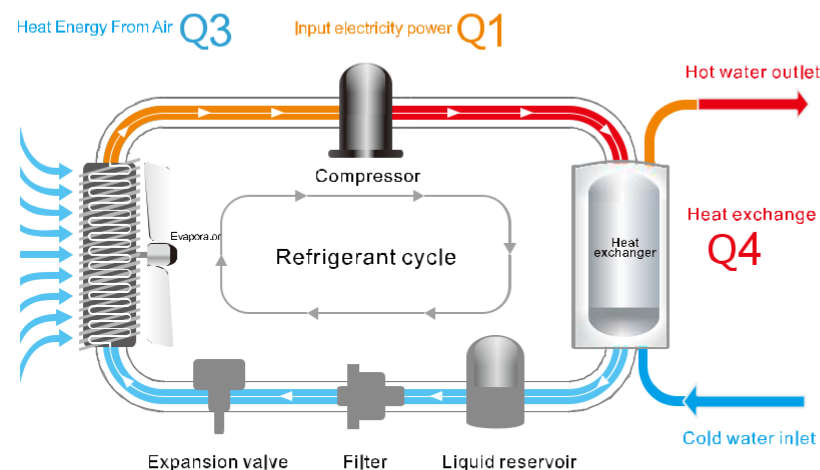


National Industrial Production License



Over 40 Patents

How does heat pump work?



- The heat pump is an energy moving device
- 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 transmit to water in the heat exchanger.
 - According to the law of conservation of energy, heat energy Q4 = air energy Q3+ electric energy Q1

Q3 + Q1 = Q4

AIR SOURCE HEAT PUMP ADVANTAGE

Safely

Adopt air source heat pump technology ,not use hidden troubles created by electric heating and combustible gas for heating, separate water and electrics, safety is the greatest wealth for our life.

Energy saving up to 80%

Air source heat pump heats by absorbing the free energy surrounding air, without any waste emission, high efficiency and energy saving up to 80% compared with the traditional electric heating mode.

Comfort

Airosd, 24 hour unlimited central hot water system and floor radiant heating more comfortable for human body to supply a high quality life.

Environmental protection

Heat comes from air for free of charge, no exhaust gas produced, use air source heat pump water heater and reduce CO₂ emission and save the liquid gas and electricity source. Protecting ecological sustainable development heat pump technology.

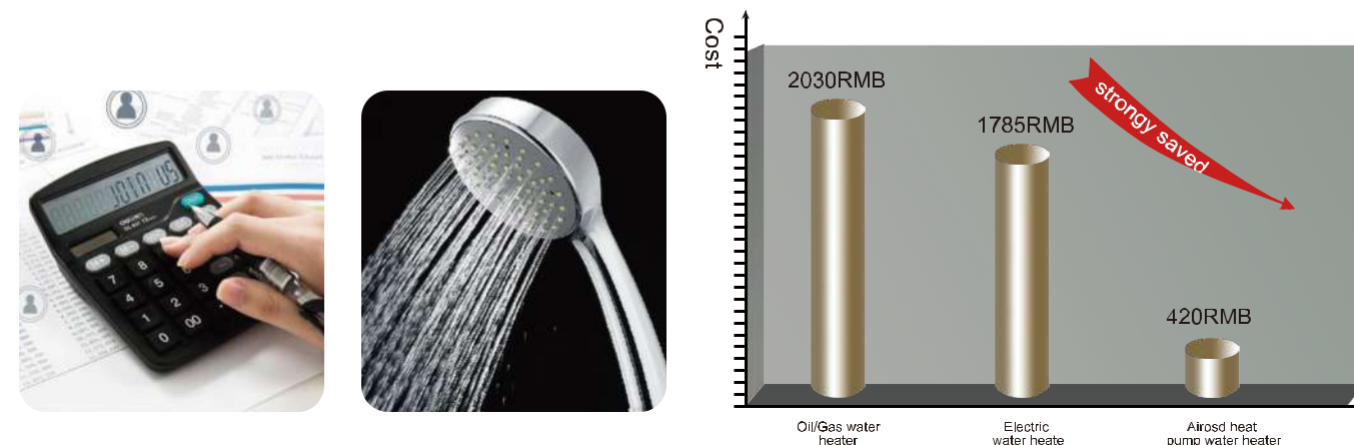
Intelligent control without special maintenance

The heat pump equipment can realize automatic control without special maintenance, which saves the extra cost of manual maintenance.

Convenient installation

The installation site of the heat pump is convenient, so long as the air is fully flowing, such as the external wall, the roof or indoor is suitable.

Water from 15°C to 55°C comparison of cost

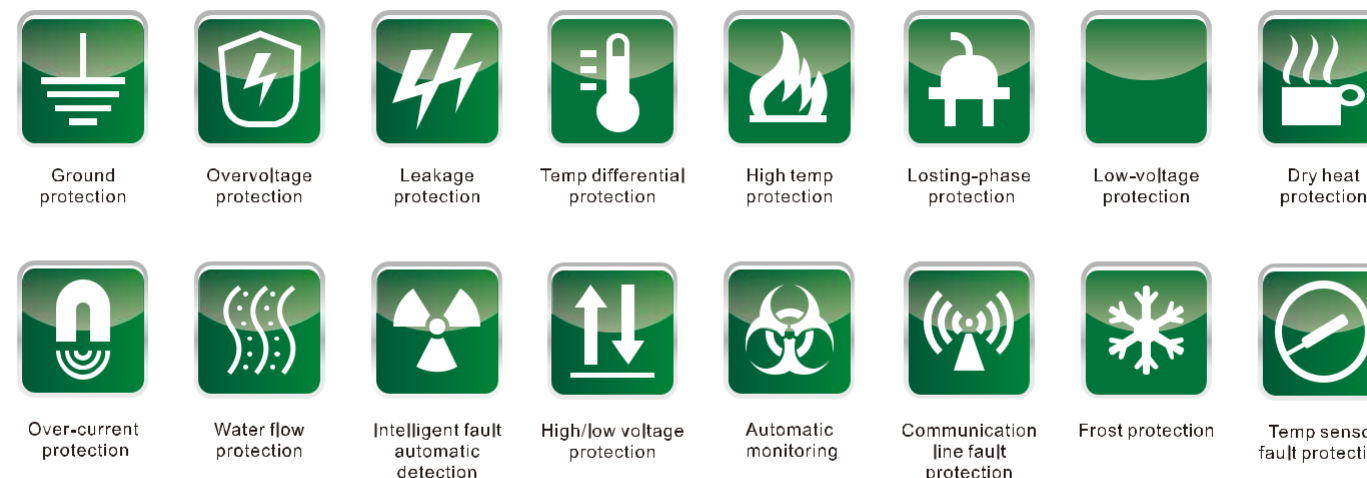


AIROSD air source heat pump energy saving advantages

	Oil/Gas water heater	Electric water heater	Heat pump water heater
Heating mode	Liquefied gas combustion	Electric energy heating	Air source Heat pump (AIROSD)
Heating efficiency	≥80%	≥95%	≤400%
Energy calorific value	24000	860	860
Energy consumption	6000/(80%X24000)=0.32m ³	6000/(95%X860)=7.35 KW	6000/(400%X860)=1.75 KW
Energy/price	18.8 RMB/m ³	0.7 RMB/KW	0.7 RMB/KW
The cost/day	6.0 RMB	5.2 RMB	1.2 RMB
Annual hot water cost of 350 days	2100 RMB	1820 RMB	420 RMB

Note: In above table, 150 L water is heated from 15 C to 55 C per day. Energy consumption varies slightly depending on the ambient temperature, and the unit price of energy is based on the local price. The above datas are used for calculation only.

AIROSD 16 intelligent protection functions





High efficiency heat exchanger
Inner-grooved tube, Compact structure, small volume, low water resistance enhance the heat exchanger efficiency.



Adopts famous compressor with high reliable
Emerson Copeland or Panasonic, HIGHLY, Mitsubishi compressor used in the system, working with high reliable and stably in -30°C ambient.



Fast and powerful heating
Adopts EVI and DC inverter technology, the compressor and fan are combined precisely, the electronic expansion valve can adjust the flow accurately, realizes rapid heating and Cooling, the working temperature range is up to -30~46°C.



Standby freezing protection
In order to prevent the water system from freezing, the system has its own intelligent mode. When the water temp. is measured below 4°C, the system starts the circulating water pump, carries out the first stage anti-freezing protection, when the water temp. rises to more than 4°C, the system performs the second stage anti-freezing, start compressor low water temp, heating mode until 12°C to stop operation.



Environment-friendly refrigerant
R407C or R410a new environment-friendly refrigerant and ROHS directive are fully adopted. It does not contain any ozone depleting elements, and the ODP is zero.



Innovative W-A-R technology
Water-Air-Refrigerant flow converter technology, with high efficiency special compressor, optimized matching between components at the same time, energy saving up to 75%, save electricity by more than half.



Fast defrosting
Real time monitoring outdoor and evaporator temp change, determine automatically enter defrosting mode, high efficiency defrosting within 2 minutes, ensure 90 minutes of long time heating.



Quiet and comfort
AiroSD heat pump has 4 noise reduction design and mute mode function to provide a quiet living environment for the user.

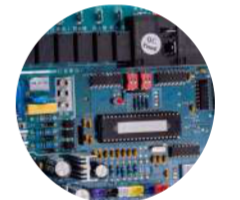
Efficient blades optimized air duct design



Mute energy efficient motor



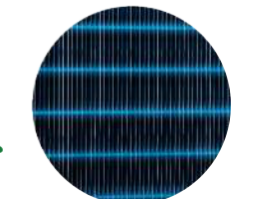
World famous scroll compressor



Intelligent control program



High-efficiency tank or plate heat exchanger



High efficiency hydrophilic aluminum foil fin evaporator, large amount of air inlet



EEV, precise flow control



Fully automatic four-way valve

Main part suppliers and strategic cooperation partners



Intelligent controller display

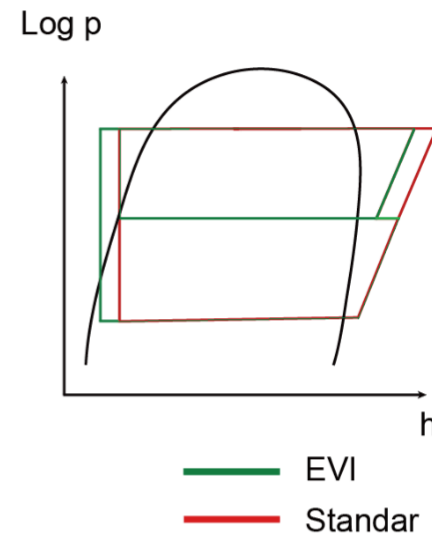
- Human intelligent control
- Long wired distant control
- Multiple timing function
- Internet control support
- Automatic power-off memory function
- Automatic diagnose, error code for trouble
- Available to inquiry any parameter
- Convenient maintenance

AiroSD air source heat pump EVI technology

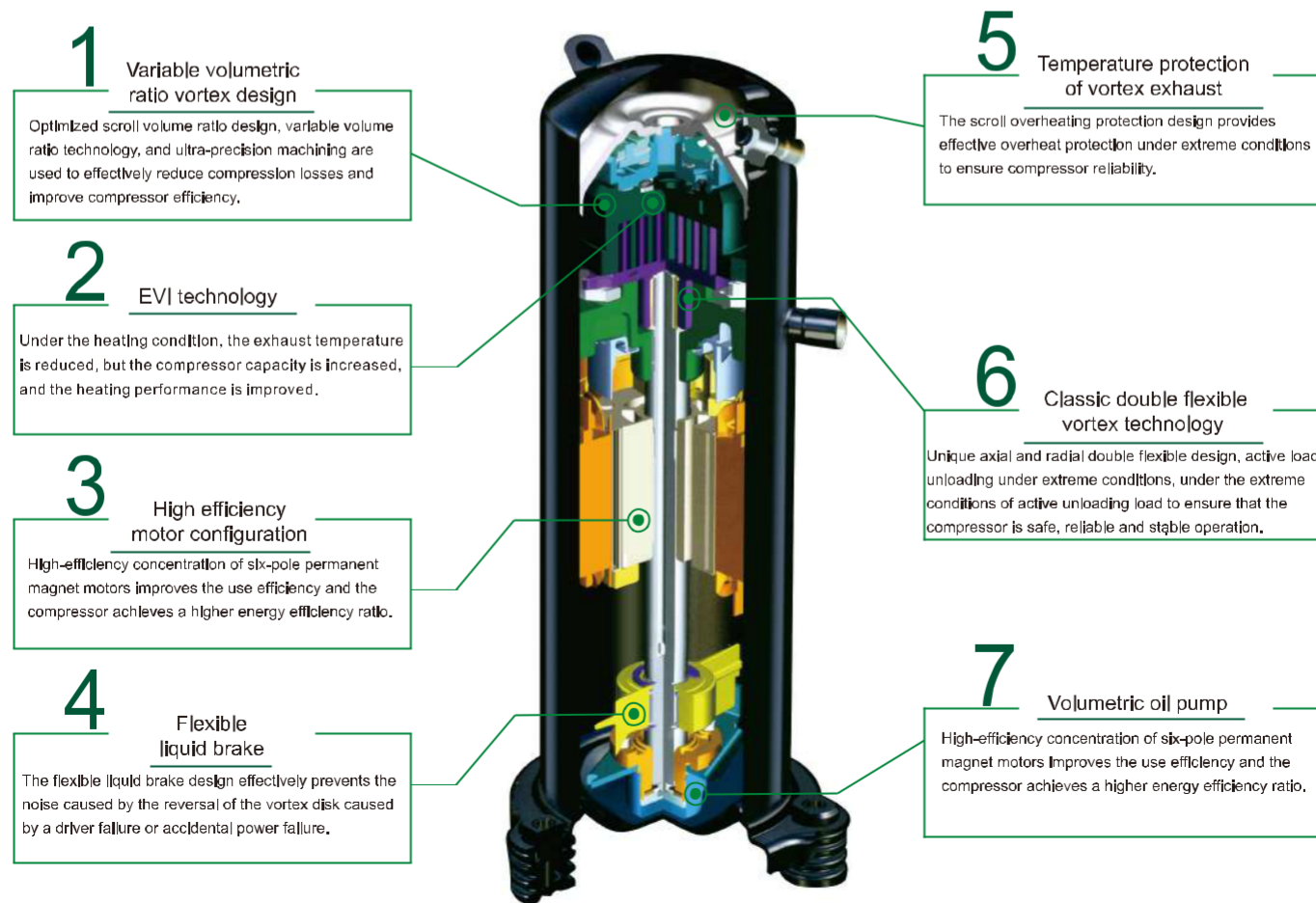
Enhance vapor injection (EVI) is the latest scroll compressor technology. Base on EVI compressor, the refrigerant in the EVI circuit enters the compressor again, and after the secondary compression, it enters the system, increasing the enthalpy of the refrigerant. AIROSD EVI heat pump can increase over 30% heating capacity even though works under severe cold climate.

In right chart, the difference between the standard refrigerant cycle and the refrigeration cycle with EVI is visible, during the compression, a portion of wet vapor gets injected. The main difference is:

The compressor is also pressure-side cooled with effect of higher end temperature 25-30% higher power, comparable to a turbo charge. Slightly better coefficient performance (COP), when EVI is activated.



EVI compressor internal structure diagram



DC inverter technology

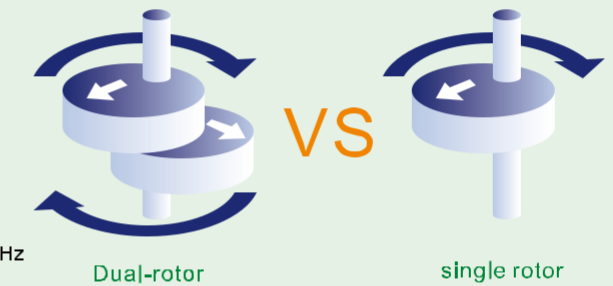
AIROSD three core inverter subversive technologies, adopts international brand and high-efficiency DC inverter compressor and brushless DC motor, which combined with full DC controlling, assures the motor speed and refrigerant flow can be adjusted in real time according to the changes of the environment and ensures the system can also provide powerful heating under severe cold climate of -30°C.

Three core inverter technology

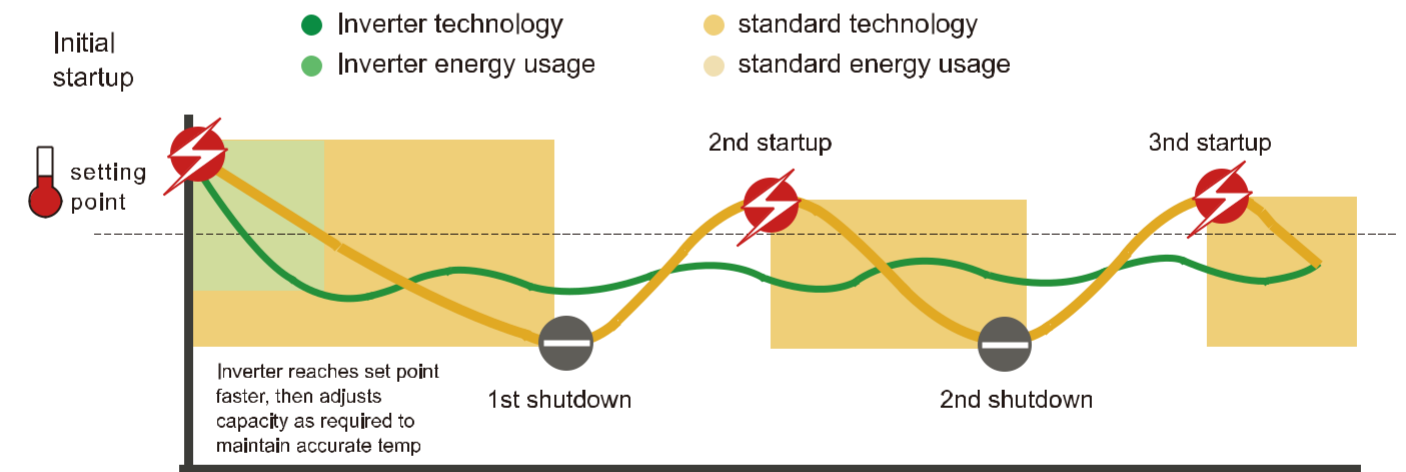
● Dual-rotor inverter compressor, 10-120 Hz ultra wideband working with energy saving and powerful heating.

4 advantages of Dual-rotor DC inverter compressor

- **Low noise:** Smooth operation, low vibration, low noise
- **long life:** Accurate process of various parts, stable performance and longer service life
- **Efficient:** DC inverter dual-rotor compressor with higher efficiency
- **Ultra wideband operation:** Compressor operating frequency 10~120Hz



● Stepless Frequency Technology PAM Inverter, constant temperature controlling, small temperature difference, more comfortable.

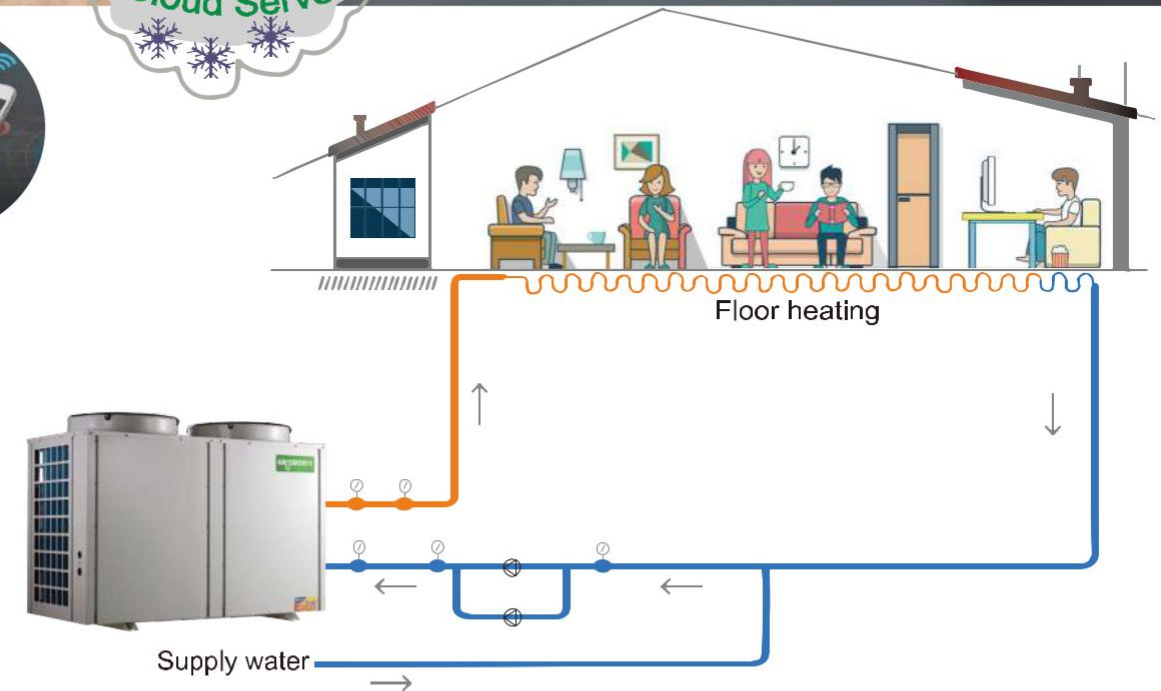


● **New Intelligent Inverter Control System**

Adopting advanced microcomputer intelligent DC inverter control, low-frequency start, save 1/3 time, soft start which will not produce the peak current of the boot, water temperature fluctuations are small, ensure the operation of the heating system is stable and reliable under the ultra temperature of -30°C.

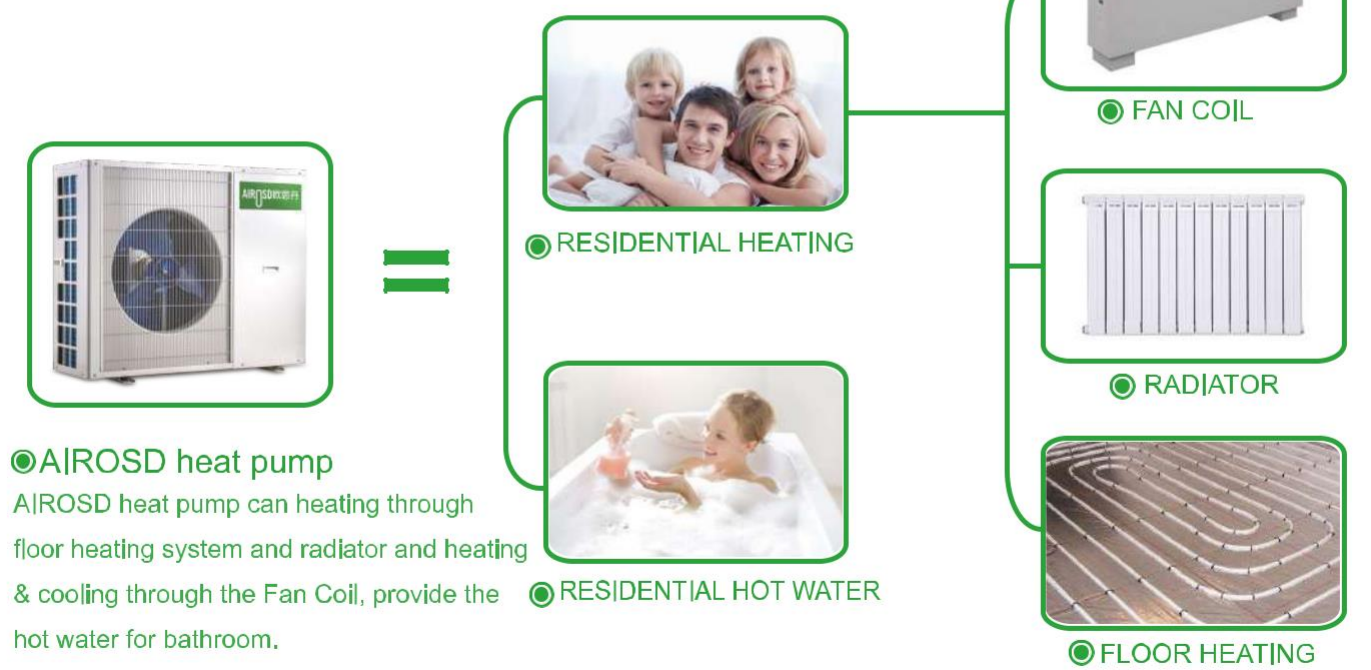
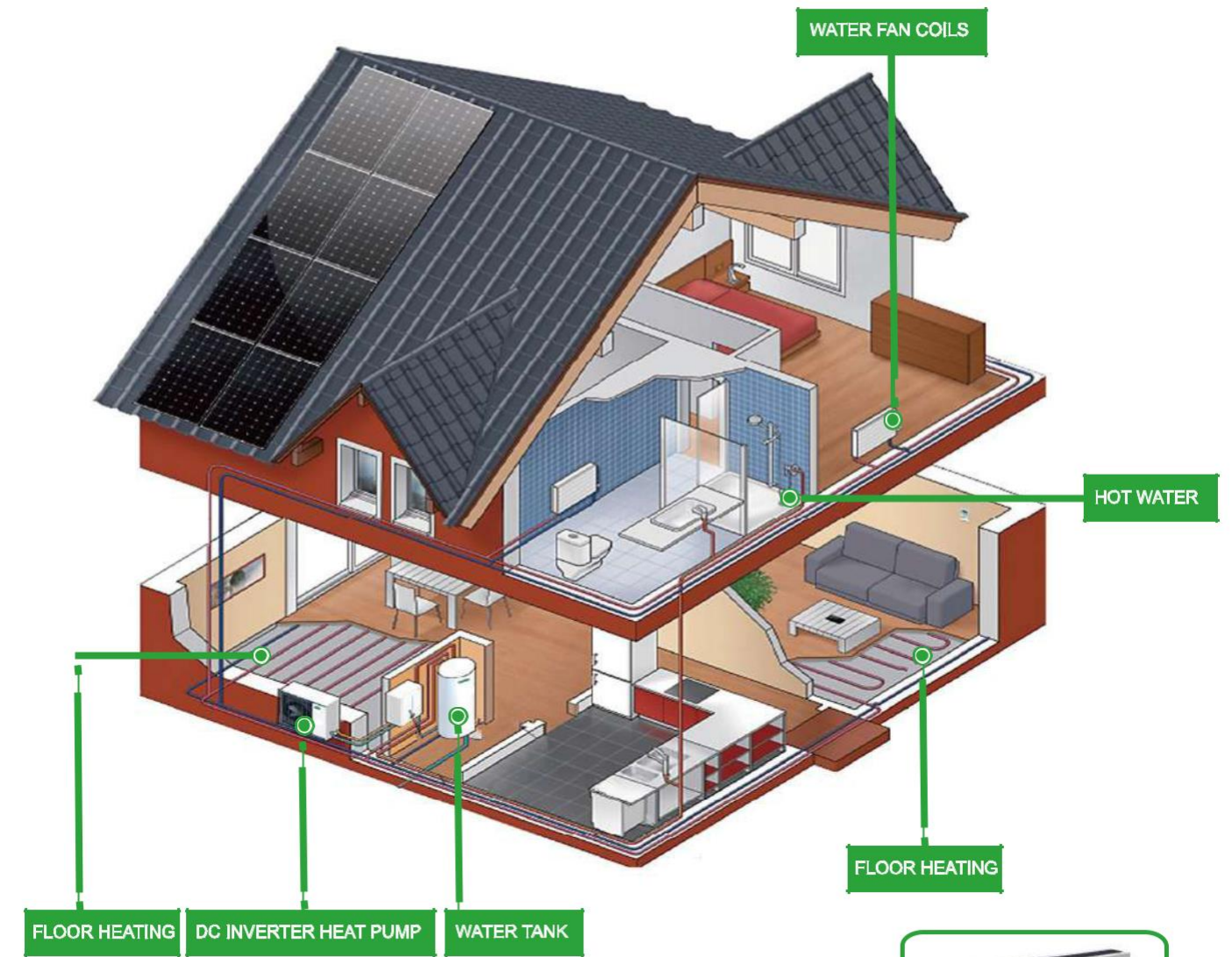
- EVI compressor special designed to get high outlet water temperature at ultra temperature working stably at -30°C ambient temperature with only little capacity recession.
- Using EEV(electronic expansion valve) to achieving accurate, stable and high efficiency throttling.
- Outdoor Fin-coil heat exchanger is hydrophilic coated, blue fin is optional for more anti-rust for seaside area.
- Compressor preheated to protect compressor in cold winter.
- Automatic defrosting function with bottom hot piping tech enable our EVI heat pump to work without capacity concession even not necessary to defrost in a long time.

The AIROSD WIFI SMART heat pump uses intelligent cloud technology, user can control their heat pump via cloud data centre, and know all things about heat pump anytime and anywhere. User can only control on phone or computer to operate or monitor heat pump working and prepare a comfortable condition for household in advance. The Monitoring and controlling function includes on/off, water inlet, outlet, ambient temperature controlled, failure prompt. It is also easy to read the working status information. Using Smart heat pump the heat pump can be monitored in real time. The working diagram as below:



Features:

- Help the user to turn on/off the heat pump or set different target water temp in advance and check the heat pump working status or there is any error.
- Help the service person to know the current error code and the whole working parameters, he can take corresponding tools to repair the machine, this save great time and trouble for the service.
- More functions such as complex timer setting, set different working mode and different target temp. at different time to save the cost mostly.



Description :

The water circle split water heater adopts higher heating exchanger to provide you the most energy saving solution for sanitary hot water supply. With built-in water pump inside the outdoor unit, it is easy installation, just simply connect the water pipe and power, you can enjoy the constantly hot water supply for shower and bath. Suitable for villa, school, hotel, family, Spa and office.



Features:

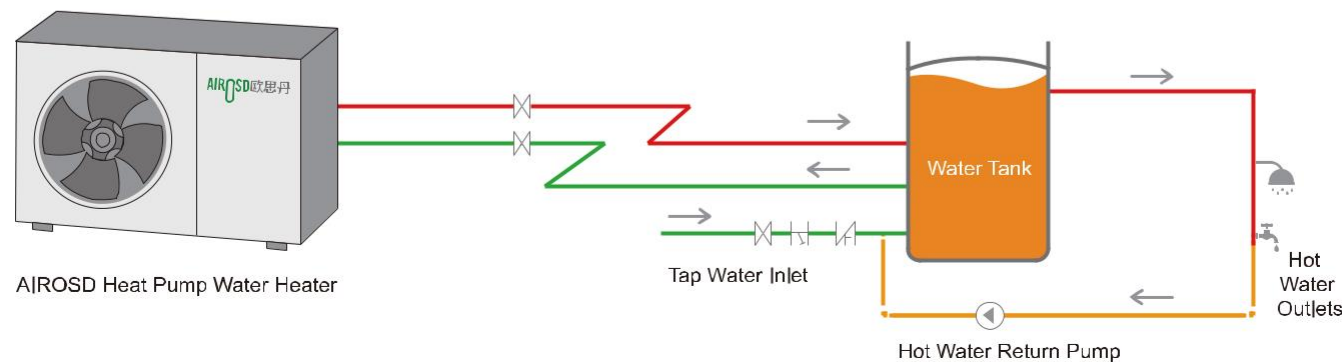
- Mitsubishi or Panasonic Rotary type compressor, low vibration, low noise and high reliability.
- Polyurethane insulated water tank.
- Intelligent EE valve, excellent efficiency at different ambient temperature.
- Built-in famous water pump.
- Innovative W-A-R(Water, Air, Refrigerant) technology, higher efficiency up to COP 4.5.
- Energy saving up to 80% than traditional electric heater.
- Automatically defrosting.

Optional:

- Galvanized metal cabinet or stainless steel.
- R410a, R22, R407c refrigerant is available.
- Water tank volume options: 150/200/250/300/400/500L.



Household circulating water system installation diagram



Water circle split water heater

MODEL	KFXR-003SPCI	KFXR-005SPCI	KFXR-007SPCI	
Ambient temp. range	°C	-15~+43°C	-15~+43°C	-15~+43°C
Rated heating capacity	kw	3.7	5	7.5
COP	w/w	4.25	4.35	4.38
Rated power Input	kw	0.87	1.15	1.71
Max. running current	A	5.5	8.5	13.1
Power supply	/	220V 1N~50Hz		
IP code	/	IPX4		
Safety function	/	High and low pressure protection, Overload protection, Temperature protection		
Refrigerant type	/	R407c/ R410/ R22		
Compressor QTY	pcs	1		
Compressor type	/	Scroll		
Max. temp. outlet water	°C	60°C		
Condenser type	/	High efficiency tank		
Waterpipe nozzle size	inch	G3/4" Internal thread	G3/4" Internal thread	G3/4" Internal thread
Circulating water quantity	m³/h	0.6	0.84	1.3
Air out type	/	Sideward		
Fan motor QTY	pcs	1	1	1
Noise	dB(A)	51	53	54
Machine dimension (W×D×H)	mm	750×264×505	930×282×550	1000×300×620
Packing dimension (W×D×H)	mm	785×355×550	1050×380×600	1120×390×660
Net weight	kg	41	57	65
Gross weight	kg	46	63	72
Water tank volume	L	150L / 200L	150L / 250L / 300L	300L / 400L / 500L

Remarks:

1. Test conditions: dry bulb temperature 20°C/wet bulb temperature 15°C, initial water temperature 15°C/stop water temperature 55°C.
2. Models, parameters will be changed due to product improvements without notice. The specific parameters are based on the nameplate.

Description:

The refrigerant circle domestic split heat pump adopts refrigerant circle the water tank to heat water, outdoor and indoor split design, no water system outside, any freezing and damage to water system. The compact design with small dimension makes the heat pump convenient to be delivered, stored and installed at any place. Widely application place: ordinary family, villa, office, and restaurant and hotel. 24 hours apply shower or washing hands.



Features:

- Fast water heating at temperatures up to 60°C.
- Mitsubishi or Panasonic Rotary type compressor, low vibration, low noise and high reliability.
- Multifunction LCD wired controller.
- High efficiency up to COP 4.5, saving 75% energy compare to tradition electric heater.
- Automatically defrosting.
- Simple installation: Rooftop, balcony, yard or basement can be suitable places for the installation.
- Durable, long life span up to 15 years, extremely low maintenance cost.
- Heating capacity: 3.7kw-7.2 kw, Tank volume: 150L-500L.
- Working temperature range of outdoor -15°C to 43°C.

Optional:

- Galvanized metal cabinet or stainless steel.
- R410a, R22, R407c refrigerant is available.
- Water tank volume options: 150/200/250/300/400/500L.



Refrigerant circle split water heater

MODEL		KF80-NW	KF120-NW	KF160-NW
Working temp. range	°C	-15~+43°C	-15~+43°C	-15~+43°C
Rated heating capacity	kw	3.7	5.5	7.2
Hot water water output	L/h	80	120	160
COP	w/w	4	4	4
Heating input power	kw	0.93	1.38	1.80
Maximum current	A	5.75	7.1	9.5
Power supply	/	220V 1N~50Hz		
IP code	/	IPX4		
Safety function	/	High and low pressure protection, Overload protection, Temperature protection		
Refrigerant type	/	R407c/ R410/ R22		
Compressor QTY	pcs	1		
Compressor type	/	1		
Maximum outlet temp.	°C	60		
Noise	dB(A)	32	34	48
Dimension (W×D×H)	mm	920×335×585	920×335×585	840×310×730
Connecting pipe spec.	inch	1/4", 3/8"	1/4", 3/8"	1/4", 3/8"
Net weight	kg	41	54	58
Packing weight	kg	50	65	68
Inlet and outlet pipe interface	inch	G 5/8" Internal thread	G 5/8" Internal thread	G 5/8" Internal thread
Safety valve specification	Mpa	1.2	1.2	1.2
Water tank volume	L	150L / 200L	150L / 250L / 300L	300L / 400L / 500L

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
2. Due to product improvement, above data are subject to change without prior notice, please take the nameplate on the heat pump as standard.

Description:

This commercial hot water heat pump is the best solution for hot water supply of commercial project, and can work with advantages of high safety, stability, much convenience, energy saving and environment friendly, which assures 24 hours comfortable hot water supply. It is widely used for hot water project of school, hotel, hospital, office market and other large building, which needs large hot water supply.



Features:

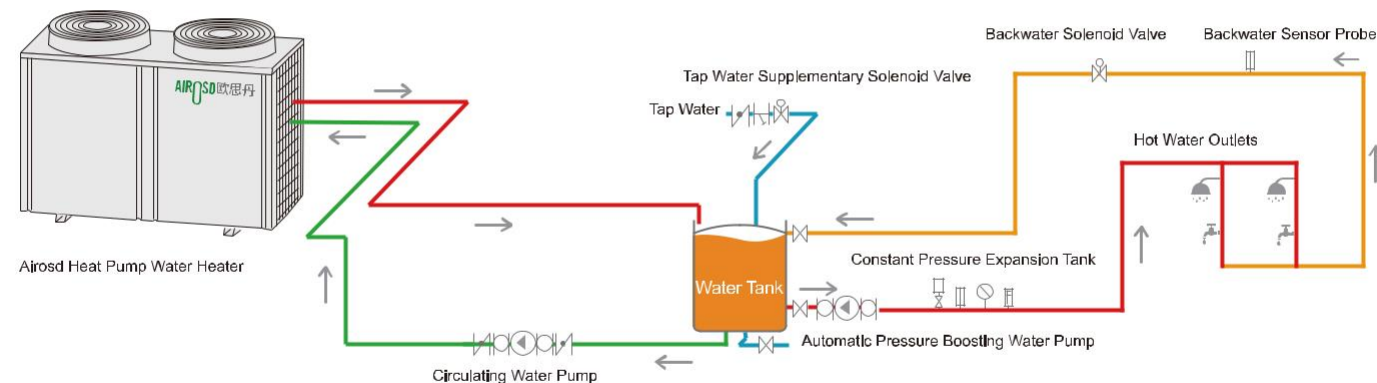
- Copeland scroll compressor, quiet and high efficiency.
- High efficiency heat exchanger.
- Schneider electrical components.
- Intelligent controlling system.
- Intelligent EE valve, excellent efficiency at different ambient temp.
- Automatically defrosting.
- Easy installation and LCD operation.

Optional:

- Galvanized metal cabinet or stainless steel.
- R410a, R22, R407c refrigerant is available.



Circulating Heating Hydraulic System Diagram



Commercial water heater heat pump								
MODEL		KFXR-010UCI	KFXR-018UCI	KFXR-023UCI	KFXR-036UCI	KFXR-045UCI	KFXR-070UCI	KFXR-090UCI
Heating mode		Circulating	Circulating	Circulating	Circulating	Circulating	Circulating	Circulating
Ambient temp. range	°C	-15~+43°C	-15~+43°C	-15~+43°C	-15~+43°C	-15~+43°C	-15~+43°C	-15~+43°C
Rated heating capacity	kw	10	18	23	36	45	70	90
COP	w/w	4.17	4.3	4	4.2	4.2	4.1	4.1
Rated power Input	kw	2.4	4.2	5.75	8.57	10.7	17	21.9
Max. running current	A	17	14	16	24.8	30	45	58
Power supply	/	220V 1N-50Hz		380v 3N-50Hz				
IP code	/	IPX4						
Safety function	/	High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.						
Refrigerant type	/	R407c/ R410/ R22						
Compressor QTY	pcs	1	1	1	2	2	2	2
Compressor type	/	Scroll						
Max. temp. outlet water	°C	60						
Water side heat exchanger type	/	Casing/high efficiency tank		High efficiency tank	Casing		High efficiency tank	
Air side heat exchanger type	/	Finned heat exchanger						
Circulating waterpipe nozzle	inch	G3/4" Internal thread	G1" Internal thread	G1.2" Internal thread	G1.5" Internal thread	G1.5" Internal thread	DN100	DN100
Outlet nozzle	inch	G3/4" Internal thread	G1" Internal thread	G1.2" Internal thread	G1.5" Internal thread	G1.5" Internal thread	DN100	DN100
Circulating water flow	inch	1.72	3.1	3.95	6.2	7.74	12.04	15.48
Air out type	/	Top discharge						
Fan motor QTY	pcs	1	1	1	2	2	2	2
Noise	dB(A)	56	56	57	59	65	69	72
Machine dimension (W×D×H)	mm	750×690×870	750×690×1070	830×793×1084	1500×690×1070	1500×690×1270	2100×1100×2000	2100×1100×2000
Packing dimension (W×D×H)	mm	800×740×1000	800×740×1200	900×930×1200	1550×740×1200	1550×740×1400	2140×1200×2040	2140×1200×2040
Net weight	kg	110	130	150	290	350	700	800
Gross weight	kg	130	150	170	330	390	750	860

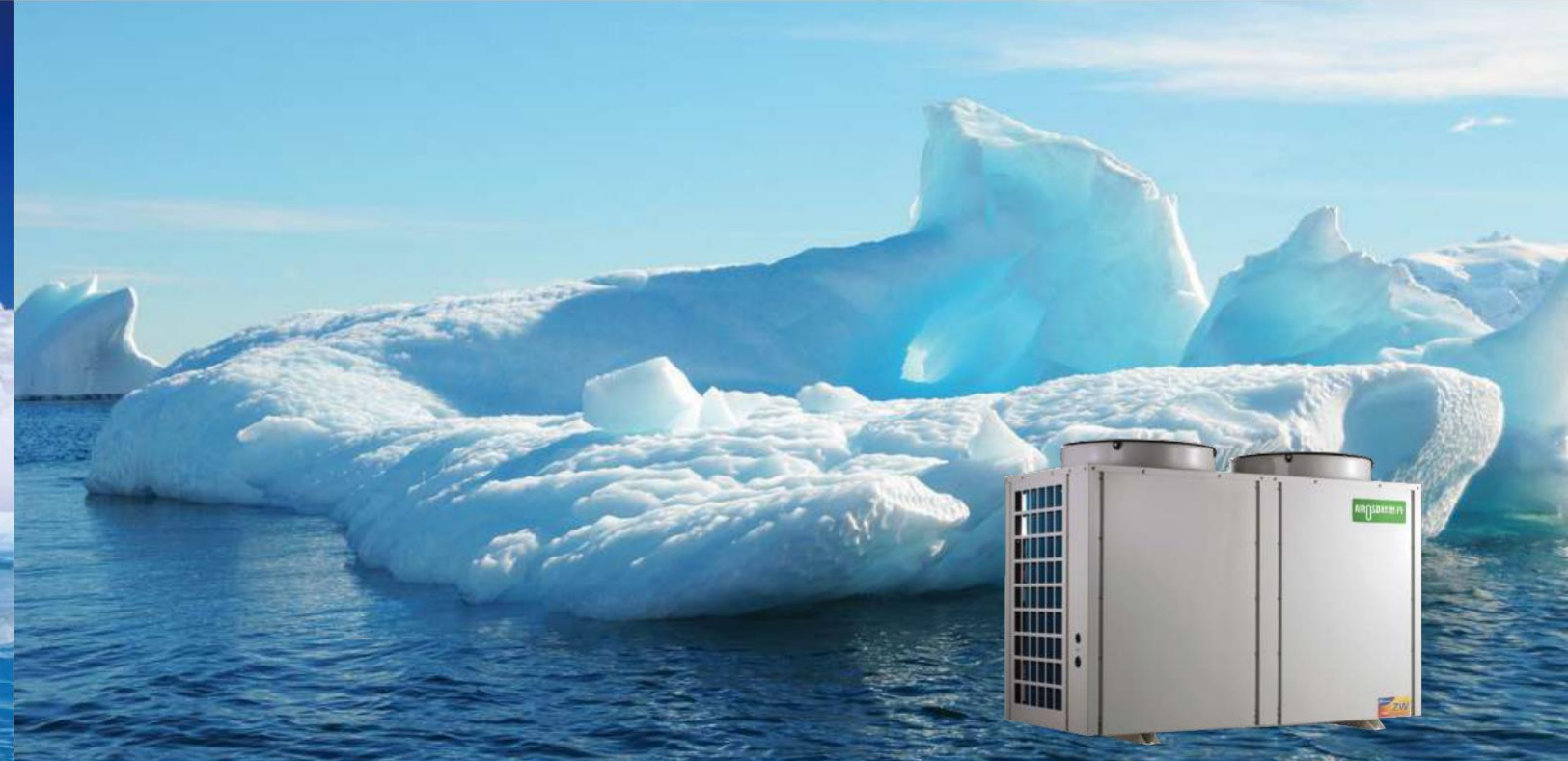
Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



Description:

This series water heater can work in very low temp. down to -30°C. The heat pump is equipped with EVI compressor and high efficiency in low cold conditions, its heating performance is higher by 50%-80% than normal water heater heat pump. It is widely used in cold climate and even work well at -30°C, supply the hot water for villa, hotel, office, hospital etc.



Features:

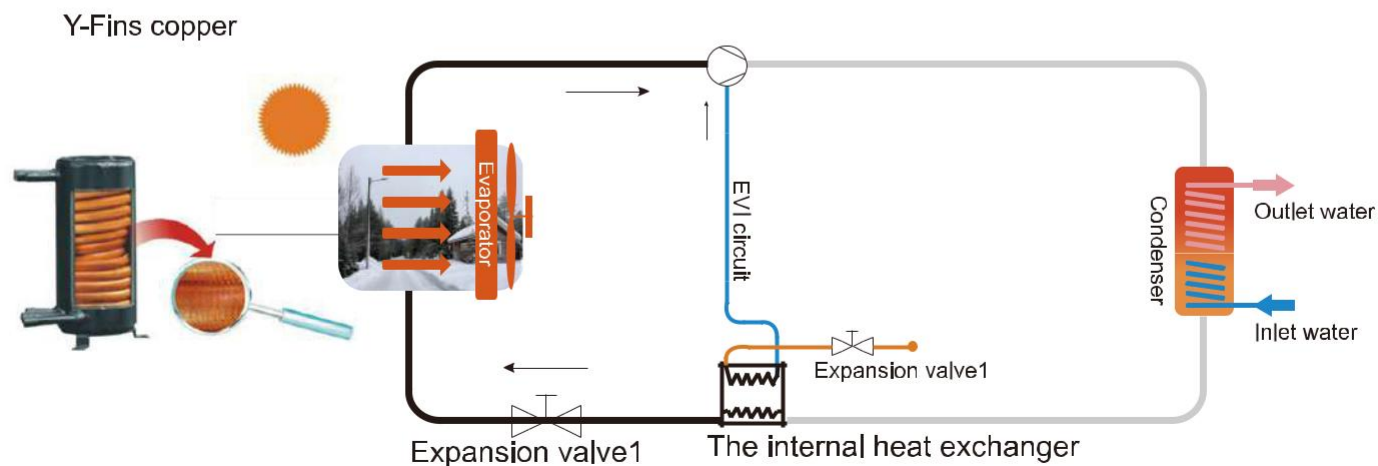
- Copeland EVI compressor and Schneider electrical components.
- Working ambient temperature down to -30°C.
- Automatically defrosting.
- Intelligent controller and adjustment by microprocessor.
- High efficiency tube in shell heat exchanger.
- Easy installation and operation.

Optional:

- Galvanized metal cabinet or stainless steel cabinet.
- Refrigerant: R22 and R407C and R410a.



EVI heat pump schematic



-30°C Low temperature commercial water heater heat pump				
MODEL		DKFXR-017SCII	DKFXR-033UCII	DKFXR-060UCII
Ambient temp. range	°C	-30~+43°C	-30~+43°C	-30~+43°C
Rated heating capacity	kw	16.5	33	60
COP	w/w	3.7	3.8	3.8
Rated power input	kw	4.45	8.7	15.6
Max. running current	A	12.5	26	48
Power supply	/	380V 3N~50Hz		
IP code	/	IPX4		
Safety function	/	High and low pressure protection; Overload protection; Temperature protection; Power phase sequence protection, etc.		
Refrigerant type	/	R407c/ R410/ R22		
Compressor QTY	pcs	1	2	2
Compressor type	/	EVI Scroll Compressor		
Max. temp. outlet water	°C	60		
Water side heat exchanger type	/	Shell heat exchanger		
Air side heat exchanger type	/	Finned heat exchanger		
Waterpipe nozzle size	/	G1" Internal thread	G1.5" Internal thread	DN100
Rated water flow	m³/h	2.8	5.7	10.3
Air out type	/	Sideward	Top discharge	Top discharge
Fan motor QTY	pcs	1	1	2
Noise	dB/(A)	56	62	69
Machine dimension (W×D×H)	mm	1120×405×1355	1500×690×1270	2100×1100×2000
Packing dimension (W×D×H)	mm	1200×540×1530	1550×740×1400	2140×1200×2040
Net weight	kg	155	350	700
Gross weight	kg	165	370	750

Remarks:

1. Test conditions: (DB/WB) 7°C/6°C, inlet water temperature 9°C, outlet water temperature 55°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

Description:

AIROSD High Temperature Hot Water Heat Pump adopts EVI scroll compressor and capable producing hot water with a maximum temperature up to 85°C, which is ideal for both commercial and industrial applications to kill legionellae and some other bacteria. It uses R134A refrigerant, which is not only eco-friendly but also reliable and stable especially for the system producing high temperature hot water. Suitable: satisfy most water demand for high temperature water in industrial production.



Features:

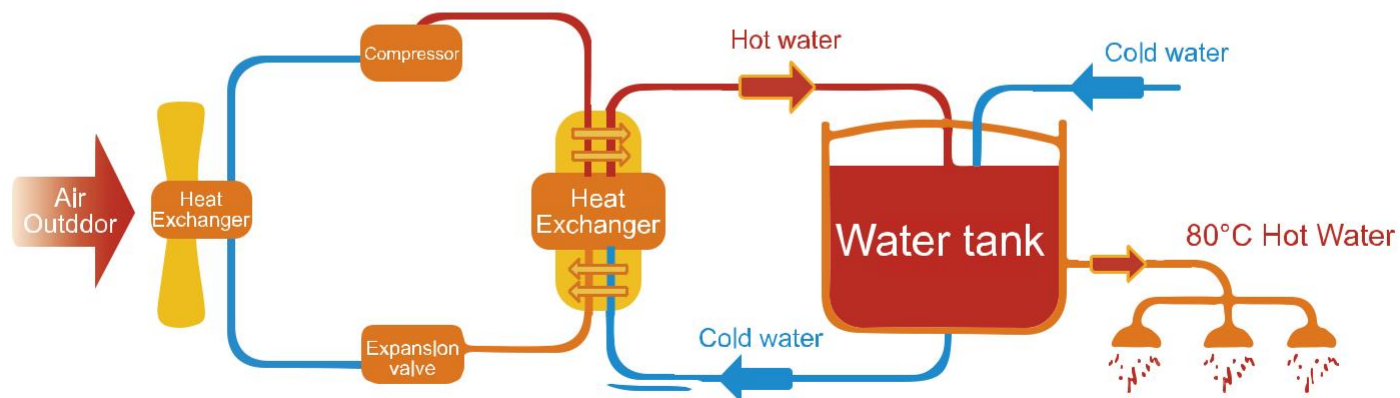
- Intelligent control: Micro processor based digital controller with LCD display.
- Durable-more than 15 years life span.
- Adjustable water temperature setting: 25 C-85 C.
- EVI Scroll compressor specially designed for high water temperature heat pump.
- ECO-friendly refrigerant R134a.
- High efficiency tube-in- shell water heat exchanger.
- Easy installation and operation.

Optional:

- Galvanized metal cabinet or stainless steel cabinet.
- Direct heating / Circulation heating type.
- R134a, XP140 refrigerant is available.



high temperature water heaters schematic

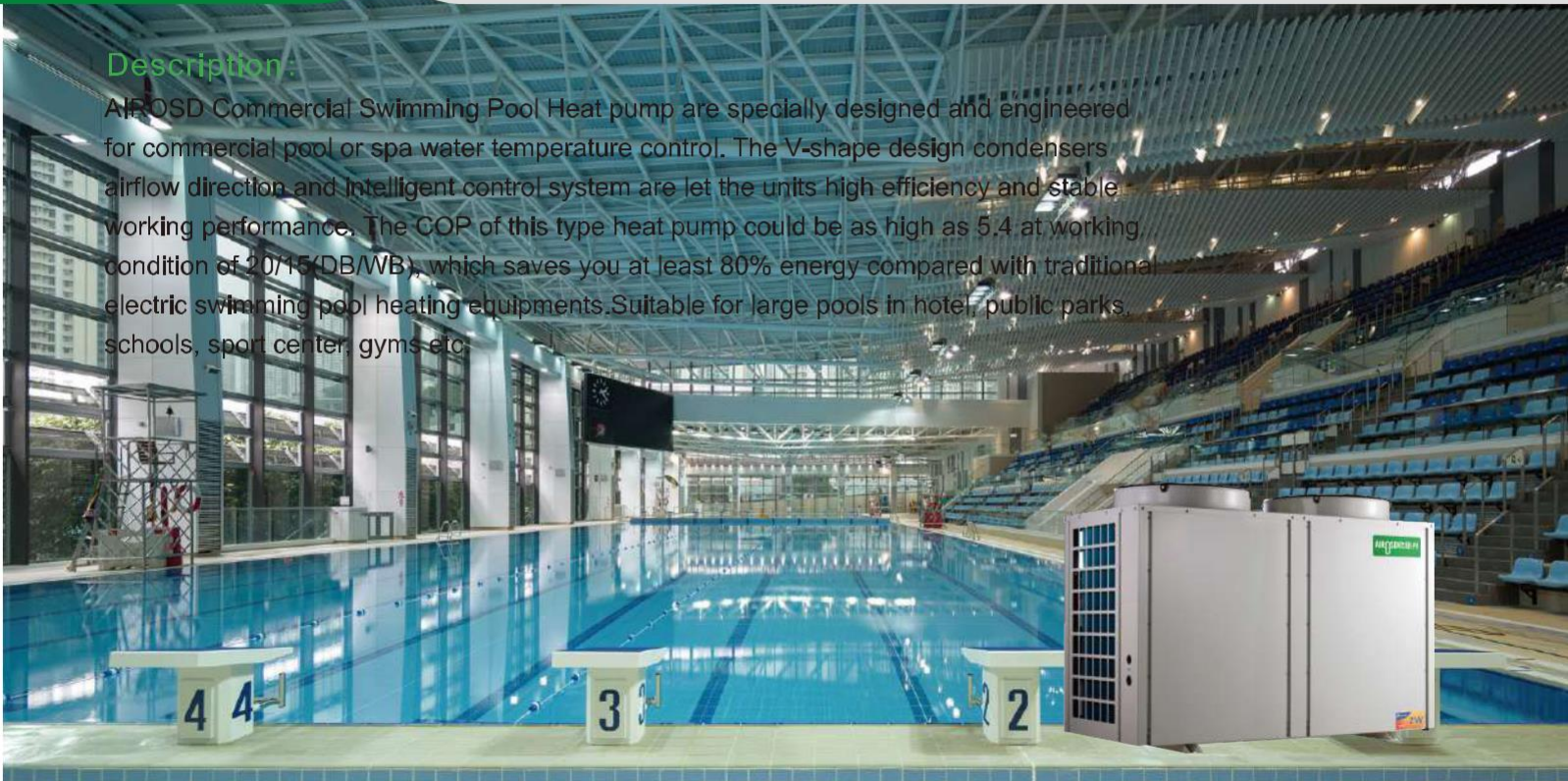


High temperature industrial hot water heater				
MODEL		KFXG-013UAII	KFXG-026UAII	KFXG-052UAII
Ambient temp. range	°C		-7~+45 °C	
Rated heating capacity	kw	13	26	52
COP	w/w	2.9	3	3
Heating input power	kw	4.48	8.67	17.3
Max. running current	A	12.5	26	48
Power supply	/	380V 3N~50Hz		
IP code	/	IPX4		
Safety function	/	High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.		
Refrigerant type/weight	-/kg	R134a/4.25	R134a/4.5x2	R134a/7.5x2
Compressor QTY	pcs	1	2	2
Compressor type	/	Scroll		
Max,temp,outlet water	°C	80		
Water side heat exchanger type	/	High efficiency tank/stainless steel/Casing		
Air side heat exchanger type	/	Finned heat exchanger		
Waterpipe Nozzle size	inch	G1" Internal thread	G1 1/2" Internal thread	DN80
Rated water flow	m³/h	2.2	4.5	8.9
Air out type	/	Top discharge		
Fan motor QTY	pcs	1	2	2
Noise	dB(A)	56	65	69
Machine dimension (W×D×H)	mm	750×690×1070	1500×690×1070	2100×1100×2000
Packing dimension (W×D×H)	mm	800×740×1200	1550×740×1200	2140×1200×2040
Net weight	kg	130	320	700
Gross weight	kg	150	370	800

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, inlet water temperature 60°C, outlet water temperature 65°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.





Description:

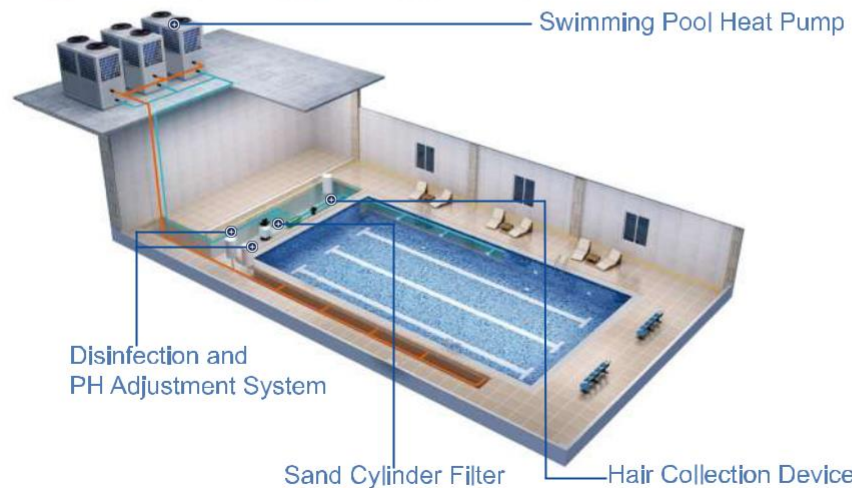
AIRQSD Commercial Swimming Pool Heat pump are specially designed and engineered for commercial pool or spa water temperature control. The V-shape design condensers airflow direction and intelligent control system are let the units high efficiency and stable working performance. The COP of this type heat pump could be as high as 5.4 at working condition of 20/15(DB/WB), which saves you at least 80% energy compared with traditional electric swimming pool heating equipments. Suitable for large pools in hotel, public parks, schools, sport center, gyms etc.

Features:

- PVC Titanium heat exchanger with full resistance against corrosion, more durable.
- Compact structure, easy demountable for access.
- High efficiency compressor, saving energy.
- Flow switch for water flow protection.
- Intelligent controller and adjustment by quick mind microprocessor.
- Intelligent LCD display wired controller.
- Air exchanger (fins-coil) with hydrophilic coating.
- Automatic defrosting function included.

Optional:

- Galvanized metal cabinet or stainless steel cabinet.
- R410a, R22, R407c refrigerant is available.
- Titanium Tube Heat Exchanger / Stainless Steel Heat Exchanger.



Commercial swimming pool heat pump								
MODEL		KFX-Y-010UCI	KFX-Y-018UCII	KFX-Y-023UCII	KFX-Y-036UCII	KFX-Y-045UCII	KFX-Y-070UCII	KFX-Y-090UCII
Heating mode	/	Circulating						
Ambient temp. range	°C	-15~+43°C						
Rated heating capacity	kw	11	19	23	38	45	70	90
COP	w/w	5.2	5.2	5.4	5.2	5.4	5.2	5.4
Rated power input	kw	2.12	3.65	4.25	7.31	8.3	13.46	16.7
Max. running current	A	10	13	14.5	13.06	26	50	48
Power supply	/	220V 1N-50Hz			380V 3N-50Hz			
IP code	/	IPX4						
Safety function	/	High and low pressure protection, Overload protection, Temperature protection, Power phase sequence protection, etc.						
Refrigerant type	/	R407c/ R410/ R22						
Compressor QTY	pcs	1	1	1	2	2	2	2
Compressor type	/	Scroll						
Max.temp.outlet water	°C	40						
Water side heat exchanger type	/	Titanium tube heat exchanger						
Air side heat exchanger type	/	Finned heat exchanger						
Circulating water pipe nozzle	Inch	G1" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G2" Internal thread	G2" Internal thread
Outlet nozzle	inch	G1" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G1.5" Internal thread	G2" Internal thread	G2" Internal thread
Rated water flow	m³/h	4.73	8.17	9.89		19		39
Air out type	/	Top discharge						
Fan motor QTY	pcs	1	1	1	2	2	3	2
Noise	dB(A)	56	56	56	59	68	68	69
Machine dimension (W×D×H)	mm	750×690×870	750×690×1070	820×790×1080	1500×690×1070	1500×690×1380	2095×1005×1855	
Packing dimension (W×D×H)	mm	800×740×1000	800×740×1200	920×840×1210	1580×800×1200	1580×740×1550	2195×1105×1955	
Net weight	kg	110	130	150	230	330	700	800
Gross weight	kg	130	160	170	260	360	750	850

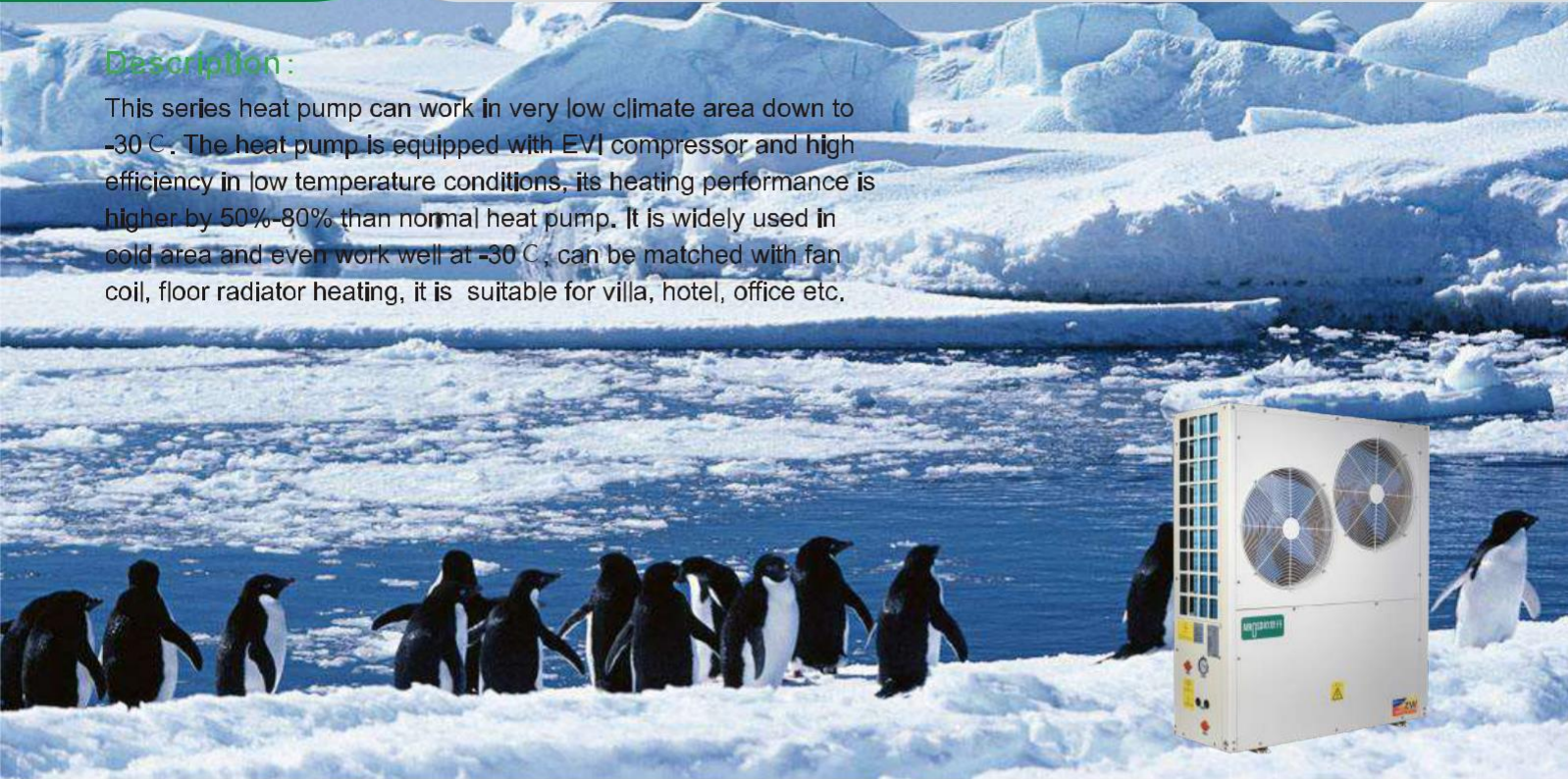
Remarks:

1. Test conditions: (DB/WB) 24°C/19°C, inlet water temperature 27°C, outlet water temperature 29°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



Description:

This series heat pump can work in very low climate area down to -30°C. The heat pump is equipped with EVI compressor and high efficiency in low temperature conditions, its heating performance is higher by 50%-80% than normal heat pump. It is widely used in cold area and even work well at -30°C, can be matched with fan coil, floor radiator heating, it is suitable for villa, hotel, office etc.



Features:

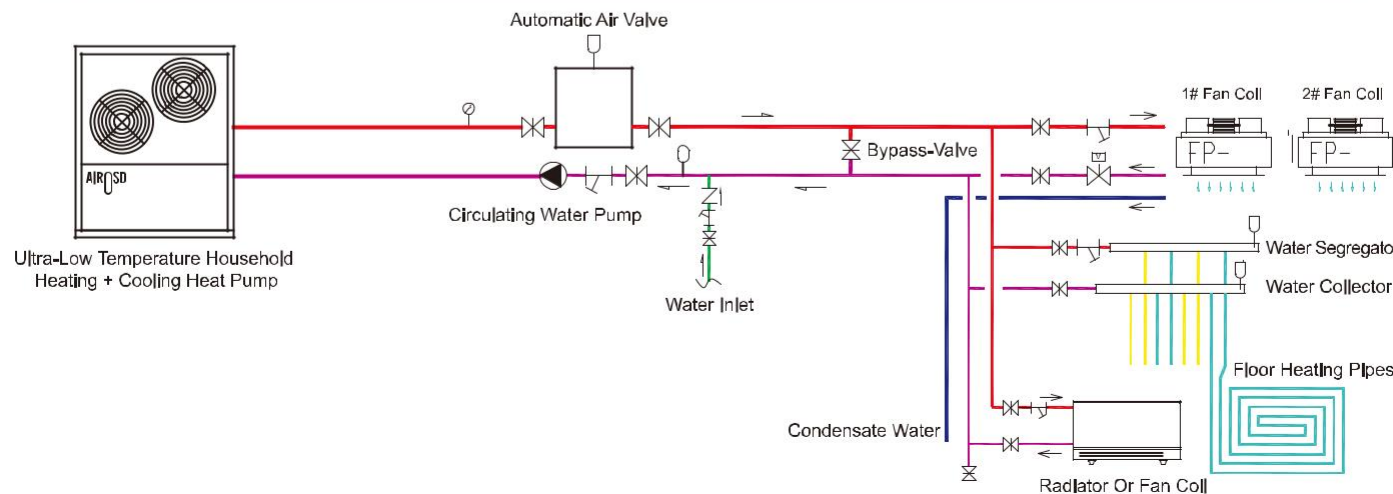
- Heating Capacity range: 9KW, 14KW, 17KW, 32KW, 45KW, 65KW, 75KW, 90KW, 150KW
- Copeland EVI compressor and Schneider electrical components.
- Working ambient temperature down to -30°C.
- Automatically defrosting.
- Intelligent controller and adjustment by microprocessor.
- High efficiency tube in shell heat exchanger.
- Match with floor heating, fan coils, and Central AC function.

Optional:

- Galvanized metal cabinet or stainless steel cabinet.
- R410a, R22, R407c refrigerant is available.
- Only heating function is optional.



Household Heating+Cooling Installation Diagram



EVI heating & cooling heat pump

MODEL		KFXFC-009SEI	KFXFC-014SCI	KFXFC-017SCI	DKFXFC-032UCII	KFXFC-065UCII	KFXFC-090UCII	KFXFC-150UCII
Ambient temp. range	°C	-30~+43						
Power supply	/	220V 1N-50Hz			380V 3N-50Hz			
Electric shock proof grade	/	Class I						
Protection grade	/	IPX4						
Cooling capacity/COP	kw/-	7.3/2.8	12.0/3.0	14.0/3.0	27.0/2.8	53.0/3.0	70.0/2.8	130.0/2.8
Low-temperature heating (A-12W41)/COP	kw/-	5.1/2.2	9.2/2.4	11.0/2.4	20.0/2.3	37.5/2.5	55.0/2.4	82.0/2.5
Normal temperature heating (A7W45)/COP	kw/-	8.8/3.3	14.4/3.7	16.3/3.6	32.0/3.6	63.0/3.9	90.0/3.6	146.0/3.9
Heating capacity	A7W35a/COP	kw/-	9.4/4.1	14.5/4.5	16.5/4.3	33.0/4.3	65.0/4.5	92.0/4.3
	A-7W45/COP	kw/-	5.8/2.3	9.4/2.6	11.3/2.7	23.5/2.6	41.0/2.6	62.0/2.6
	A-15W45/COP	kw/-	4.5/2.2	8.0/2.2	9.6/2.2	19.5/2.2	34.0/2.2	50.0/2.2
	A-20W45/COP	kw/-	4.2/1.9	6.5/1.9	7.9/2.0	16.5/2.0	30.2/2.0	43.0/2.0
Rated cooling input power	kw	2.61	4	4.67	9.6	17.7	25	46.4
Low temperature heating input power	kw	2.32	3.83	4.58	8.7	15	22.9	32.8
Normal temperature heating input power	kw	2.5	4	4.5	/	16.2	25	37.4
Max working current	A	20	32	14.5	25	47	65	110
Compressor	Type	/						
	Quantity	1			2		4	
Fan motor	Type	/						
	Quantity	1			2		4	
Max. water temperature	°C	60						
Water yield	L/h	1600	2500	2800	4600	9100	12000	22400
Refrigerant type	/	R404a/2,2	R407c/4,4	R407c/4,5	R407c/ R410/ R22			
Dimension (W×D×H)	mm	1087×435×901	1052×362×1346	1082×362×1346	1530×750×1370	2100×1100×2000		2100×2060×2250
Packing dimension (W×D×H)	mm	1230×500×1050	1160×540×1460	1230×500×1500	1650×850×1470	2260×1360×2270		2230×2250×2400
Noise	dB(A)	54	58	56	65	68	68	69
Net weight	kg	70	140	140	350	850	950	1900
Gross weight	kg	80	150	150	380	900	1000	2000
Circulating pipe diameter	inch	G1" external thread			G1.5" external thread		DN65 external thread	
		G1 1/4" external thread			G1 1/4" external thread		DN50 flange	

Remarks:

1. Test conditions: (DB/WB) 7°C/6°C, inlet water temperature 30°C, outlet water temperature 35°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the nameplate as standard.

Description:

EVI Split heat pump adopts advanced EVI technology to achieve high efficiency with a COP of up to 4.5. The intelligent control system allows everyone in the family to control the unit. Due to the split design, the units are cost-effective, quiet to run outside. All of the features work together to give you a more comfortable household. Suitable for villa, school, hotel, family, and office.

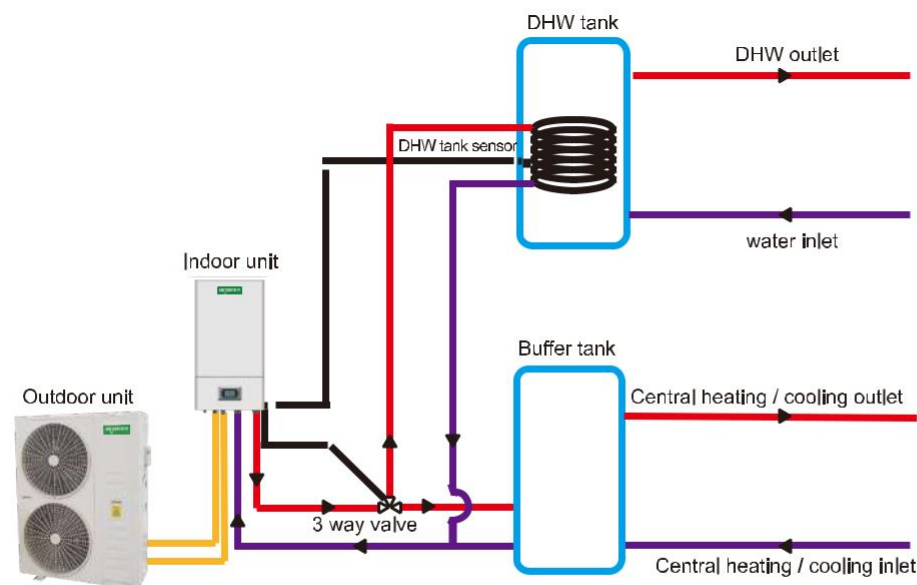


Features:

- Can be used for floor heating, fan coils, water heater and also modern radiators.
- Split design with water system indoor, preventing water frozen problem.
- Copeland EVI compressor and Schneider electrical components.
- Working ambient temperature down to -30°C.
- With controller interface, plate heat exchange, circle water pump, flow switch, water pressure gauge in indoor unit.
- Automatic defrosting function.

Optional:

- Allows absence of buffer tank.
- R410a, R22, R407c refrigerant is available.



Residential EVI split heating heat pump							
Model (Whole)		KFXFC-009SMI/WG	KFXFC-014SMI/WG	KFXFC-018SMI/WG	KFXFC-033SMI/WG	KFXFC-040SMI/WG	
Outdoor Model		KFXFC-009SMI/W	KFXFC-007SMI/W*2	KFXFC-009SMI/W*2	KFXFC-017SMI/W*2	KFXFC-020SMI/W*2	
Ambient temp. range	°C	-30~+43 °C					
Power supply	/	220V~/50Hz					
Electric shock proof grade	/	Class I					
Protection grade	/	IPX4					
Rated cooling input power	kw	2.68	4.29	5.00	8.93	10.00	
Low temperature heating input power	kw	2.50	3.83	4.38	8.70	9.58	
Max. working current	A	20	18×2	20×2	32×2	40×2	
Refrigerant type	/	R407c/ R410/ R22					
Compressor	Type	EVI Compressor					
	Quantity	pcs	1	1×2	1×2	1×2	1×2
Fan motor	Quantity	pcs	1	1×2	1×2	2×2	2×2
	Heat exchanger	Heat source side	Type	Finned heat exchanger			
		Air way	/	Sideward			
The outdoor unit dimension (W×D×H)	mm	1060×370×900	1060×370×900×2	1060×370×900×2	1030×370×1345	1030×370×1345	
Noise	dB(A)	58	58	58	62	62	
Net weight	kg	88	80	88	150	150	
Internal and external machine connection specifications	/	3/8, 5/8	3/8×2, 5/8×2	3/8×2, 5/8×2	3/8×2, 5/8×2	3/8×2, 5/8×2	
Indoor unit model	/	KFXFC-009SMI/G	KFXFC-0014SMI/G	KFXFC-018SMI/G	KFXFC-033SMI/G	KFXFC-040SMI/G	
Indoor unit (W×D×H)	mm	400×367×786	550×367×786	550×367×786	645×492×979	645×492×979	
Rated flow	m³/h	1.3	2	2.5	4.3	4.8	
The residual pressure of machine outside	kPa	180	170	200	230	230	
Net weight	kg	40	50	60	70	75	
Rated cooling capacity/COP	kw/-	7.5/2.8	12.0/2.8	14.0/2.8	25.0/2.8	28.0/2.8	
Low-temperature heating (A-12W41)/COP	kw/-	6.0/2.4	9.2/2.4	10.5/2.4	20.0/2.3	23.0/2.4	
Normal temperature heating (A7W45)/COP	kw/-	10.3/3.5	14.4/3.7	16.2/3.6	32.0/3.6	38.4/3.7	
COP	A7W35/COP	kw/-	10.6/4.3	14.5/4.5	16.5/4.3	33.0/4.3	39.2/4.5
	A-7W45/COP	kw/-	7.2/2.7	9.4/2.6	11.3/2.7	23.5/2.6	28.4/2.6
	A-15W45/COP	kw/-	5.5/2.2	8.0/2.2	9.6/2.2	19.5/2.2	22.0/2.2
	A-20W45/COP	kw/-	4.8/1.9	6.5/1.9	7.9/2.0	16.5/2.0	20.0/1.9

Description:

This series heat pump with advanced DC inverter and EVI technology, can save you 80% heating cost compare with the traditional heating device like gas/fuel boiler and electrical heater. It heats fast and works perfectly with the radiator and floor heater to provide you a comfortable living environment even in very cold winter. It is one of the best heating devices available today.



Features:

- Twin rotary compressor with inverter control – DC inverter technology control the heat pump output according to the household's energy requirements. Low waste of the power.
- R410a refrigerant, environmentally friendly and no CO₂ emissions.
- Intelligent controller and LCD display.
- Safely operation with multi-protections.
- Electronic Expansion Value allows the accurate refrigerant go through under different working conditions. So it ensures that the heat pump can work with high efficiency to provide enough cooling/heating capacity in any conditions.
- Hydrophilic coating air exchanger and SWEP plate heat exchanger all available.
- Auto defrosting function.
- Convenient for installation and maintenance.

Optional:

- Galvanized metal cabinet or stainless steel cabinet all available.
- R410a, R22, R407c refrigerant is available.
- Only heating function is optional.



Household Heating & Cooling Solutions



DC+EVI inverter heating & cooling heat pump

MODEL		BKFXFC-009SMI	BKFXFC-014SMI	BKFXFC-018SMI
Ambient temp. range	°C		-30~+43°C	
Power supply	/	220V 1N~50Hz		
Electric shock proof grade	/	Class I		
Protection grade	/	IPX4	IPX4	IPX4
Rated cooling capacity	A7W35 kw/-	7.5/2.81	11.5/2.82	14.5/2.82
Rated heating capacity	A-12W41 kw/-	5.3/2.31	9.1/2.35	11.0/2.35
Heating capacity/COP	A7W45 kw/-	8.8/3.60	14.5/3.56	17.5/3.40
	A7W55 kw/-	8.1/2.74	14.2/2.92	16.8/2.70
	A2W35 kw/-	7.3/3.45	12.0/3.54	14.0/3.54
	A-15W45 kw/-	4.2/1.82	8.1/2.04	9.5/2.0
Compressor	Type	Scroll	Scroll	Scroll
Rated refrigerating input power/current	kw/A	2.6/12.2	4.1/18.6	5.16/23.5
Rated heating input power/current.	kw/A	2.30/11.1	3.87/17.6	4.68/21.2
Max. working current	kw/A	4.40/20	6.6/30	7.5/34
Max. working pressure of heat exchanger	Mpa	4.2	4.2	4.2
Temperature range of refrigeration outlet	°C	5~15	5~15	5~15
Heat outlet temperature range	°C	25~58	25~58	25~58
Water yield	L/h	1300	2000	2500
Refrigerant type/Weight	-/kg	R410a/3.3	R410a/4.4	R410a/4.4
Noise	dB(A)	≤58	≤59	≤59
Dimension (W×D×H)	mm	1090×435×900	1120×440×1360	1120×440×1360
Net weight	kg	80	150	150

- 1: A7W35: ambient temperature 35°C, inlet water temperature 12°C, outlet water temperature 7°C;
- 2: A7W45: environmental dry bulb temperature 7°C, wet bulb temperature 6°C, inlet water temperature 40°C, outlet water temperature 45°C;
- 3: A-12W41: environmental dry bulb temperature -12°C, wet bulb temperature -14°C, outlet water temperature 41°C;
- 4: A7W45: inlet air temperature 7°C, outlet air temperature 45°C.

Due to product improvement, above datas are subject to change without prior notice, please take the nameplate as standard.

Description:

This heat pump dryer is used for drying different materials, it adopts heat pump working heat dissipation principle to form airflow to dry industry and agriculture materials, this type of heat pump with the features of intelligent, low cost, temperature controllable and so on. Wide application, can be used in agricultural products, seafood, fruits and vegetables, fish, meat, nut, herb, wood drying systems.



Features:

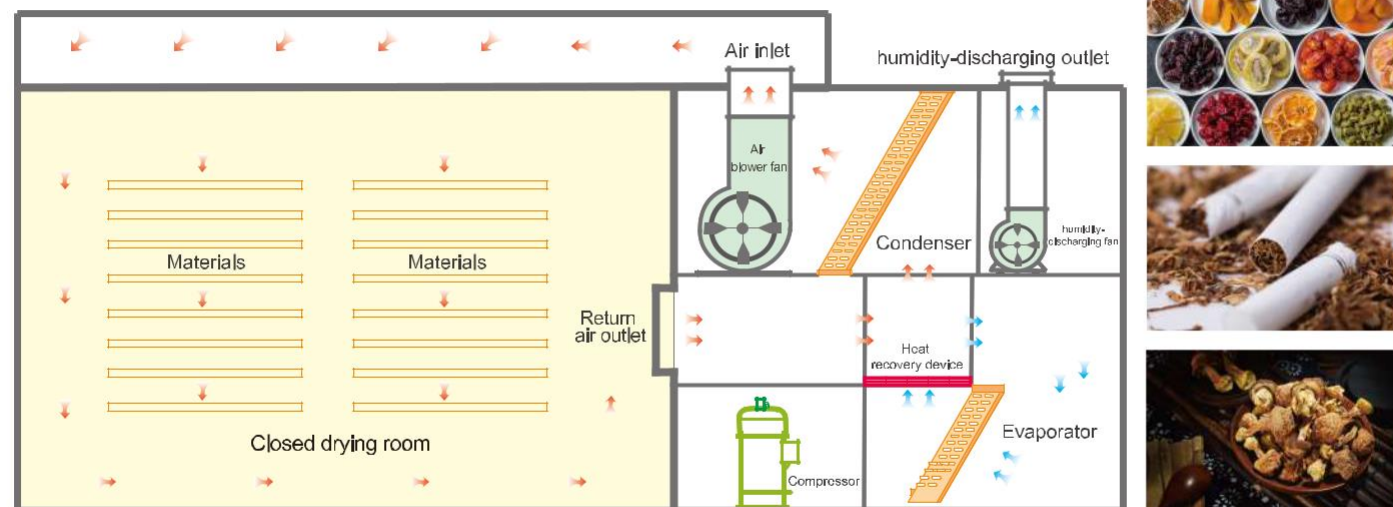
- Energy saving & Environmental protection
- Running Stable, operating easily
- Exactly control temperature between 20-80 C.
- Safe and reliable operation, automatic intelligent control, 24-hour continuous.
- Low cost, No any waste and CO₂ emission
- Easy installation.

Optional:

- Galvanized metal cabinet or stainless steel
- cabinet,R410a, R22, R407c refrigerant is available.



Heat pump drying and dehumidification process diagram



Heat pump dryer						
Outdoor machine		KFXH-013SCII	KFXH-016SCII	KFXH-026SCII	KFXH-032SCII	KFXH-060SCII
Ambient temp. range	°C	-7~+43°C				
Rated heating capacity	kw	13	16	26	32	32
Rated input power	kw	4.33	5.33	8.67	10.67	10.67
Max. working current	A	12	14	25	30	30
Power supply	/	380V 3N-50Hz				
Protection grade	/	IPX4				
Safety function	/	High and low pressure protection; Overload protection; Temperature protection; Power phase sequence protection.				
Refrigerant type	/	R407c/ R410/ R22				
Compressor quantity	pcs	1	1	2	2	2
Compressor type	/	Scroll				
Heat exchanger type	/	Finned heat exchanger				
Connecting pipe spec.	inch	3/8", 5/8"	3/8", 5/8"×2	3/8", 5/8"×2	3/8", 5/8"×2	3/8", 5/8"×2
Air out type	/	Sideward				
Fan motor QTY	pcs	1	1	2	2	2
Noise	dB(A)	65	66	65	65	65
Machine dimension (W×D×H)	mm	1080×1040×1100	1080×1040×1100	1720×1060×1100	1720×1060×1100	1720×1060×1100
Packing dimension (W×D×H)	mm	1150×1100×1200	1150×1100×1200	1800×1110×1200	1800×1110×1200	1800×1110×1200
Net weight	kg	130	140	230	300	300
Gross weight	kg	140	150	250	330	330
Indoor machine		KFXH-013SAII	KFXH-016SAII	KFXH-026SAII	KFXH-032SAII	KFXH-032SAII
Power supply	/	220V 1N-50Hz				
Heat exchanger type	/	Finned heat exchanger				
Max. air outlet temp.	°C	75				
Circulating air volume	m ³ /h	Customizable according to customer needed				
Machine dimension (W×D×H)	mm	Customizable according to customer needed				
Packing dimension (W×D×H)	mm	Customizable according to customer needed				
Net weight	kg	Customizable according to customer needed				
Gross weight	kg	Customizable according to customer needed				

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, return air temperature 55°C, air outlet temperature 60°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the nameplate as standard.

Description:

AIROSD water to water geothermal heat pump, offer high-performance heating convenience in a compact design requiring very little floor space. Practically all different classes of ground water qualities can be regulated to achieve a heat output of up to 150KW. An innovative coil heat exchange made of corrosion-resistant stainless steel with sealed, welded seams ensures that the unit operates reliably.

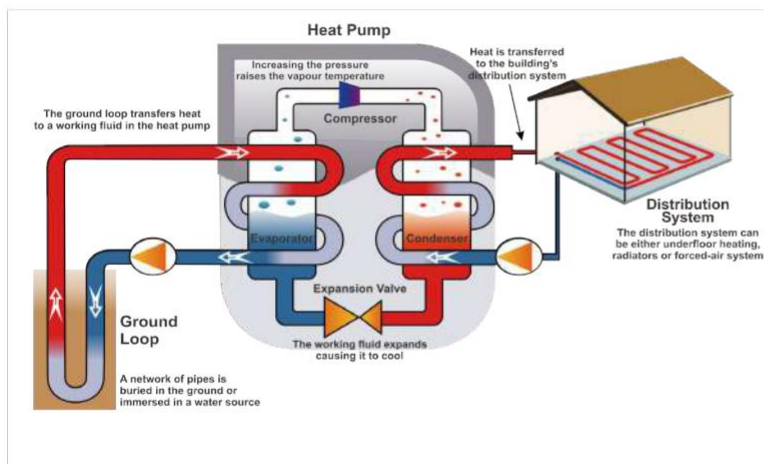


Features:

- International famous brand hermetic scroll compressors.
- Multi-purpose: with cooling, heating, central hot water three function.
- High efficiency up to 5.0, low maintenance cost.
- Quiet, no exposed equipment outdoors, No open flame, no Noise.
- Adopts advanced microcomputer control system and advance thorough security system to ensure the efficient operation all year round.

Optional:

- Galvanized metal cabinet or stainless steel cabinet all available
- R410a, R22, R407c refrigerant is available.



Geothermal water to water heat pump								
MODEL		SFXKR-017CII	SFXKR-032CII	SFXK-040CII	SFXK-060CII	SFXK-080CII	SFXK-0150CII	
Ambient temp. range	°C	-30~+50°C						
Power supply	/	380V 3N-50Hz						
Electric shock proof grade	/	Class I						
Protection grade	/	IPX4						
Floor heating capacity/COP	kw/-	17/4,8	32/4,8	40/4,8	60/4,8	80/4,8	150/4,8	
Rated heating capacity/COP	kw/-	16/4,1	31/4,1	36,5/4,1	55/4,1	72,5/4,1	135/4,1	
Rated cooling capacity/COP	kw/-	15/5	28,5/5	34/5	51/5	65/5	125/5	
Domestic water heating capacity/COP	kw/-	16,5/4,4	28,5/4,4	/	/	/	/	
Floor heating input power	kw	3,5	6,7	8,3	12,5	16,7	31,3	
Rated heating input power	kw	3,9	7,6	8,9	13,4	17,7	32,9	
Rated cooling input power	kw	3	5,7	6,8	10,2	13,6	25	
Domestic water heating power	kw	3,8	6,5	/	/	/	/	
Max. working current	A	11,8	23	28	45	60	100	
Refrigerant	/	R407c/ R410/ R22						
Compressor	Type	Scroll						
	Quantily	1	2	2	2	2	4	
Water yield	L/h	1400	2600	3200	4700	6300	11600	
Dimension (W×D×H)	mm	745×650×960	1400×750×960	1400×750×960	1805×1100×1010	1805×1100×1010	2100×1100×1080	
Packing dimension (W×D×H)	mm	805×700×1020	1480×810×1020	1480×810×1020	1800×1210×1150	1800×1210×1150	2260×1200×1200	
Heat source side	Type	Plate heat exchanger or Tube In shell heat exchanger						
	Max/low outlet temperature	+25~-5 (Antifreeze solution with 25% ethylene glycol)						
Heat exchanger	Water inlet size	inch	G1" A internal thread	G1 1/2" internal thread	DN40	DN50	DN80	DN100
	Water flow volume	m³/h	1,4	2,6	3,2	4,7	6,3	11,6
	Water pressure loss(Max.)	kPa	≤25	≤30	≤30	≤30	≤30	≤30
Use side	Type	Plate heat exchanger or Tube In shell heat exchanger						
	Maximum/low outlet temperature	°C	58/5	58/5	58/5	58/5	58/5	58/5
	Nozzle size	inch	G1" A internal thread	G1 1/2" internal thread	DN40	DN50	DN80	DN100
Domestic water side	Type	High-efficiency tank heat exchanger						
	Maximum/low outlet temperature	°C	60	60	60	60	60	60
	Rate flow	m³/h	2,84	4,9	6,5	9,7	12,9	23,7
	Nozzle size	inch	G1" internal thread	G1 1/2" internal thread	G1 1/2" internal thread	DN50 flange	DN65 flange	DN100 flange

- 1: Floor heating condition: Heat source side inlet temperature 0 °C and use side inlet water temperature 30 °C ;
- 2: Rated heating condition: Heat source side inlet temperature 0 °C and use side inlet water temperature 30 °C ;
- 3: Rated cooling condition: Heat source side inlet water temperature is 25 °C and outlet water temperature is 30 °C , use side inlet water temperature is 12 °C and outlet water temperature is 7 °C ;
- 4: Due to product improvement, above datas are subject to change without prior notice, please take the nameplate as standard.

Description:

This air heater adopts EVI compressor and full-DC inverter technology achieves stable heating operation at -30°C in ultra-low temperature, and stable heating at -20°C without attenuation. Suitable for residential ,office where needs powerfull heating.

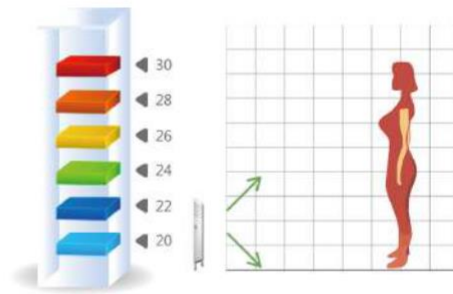


Features:

- Rapid heating, Instantly warming.
- Multi-speed adjustment, there is always a file for you.
- Long heating time, warm without interruption.
- Easy to install and save worry.
- Wind up and down, fully enjoyment.
- Warm heating enjoyment.

Optional:

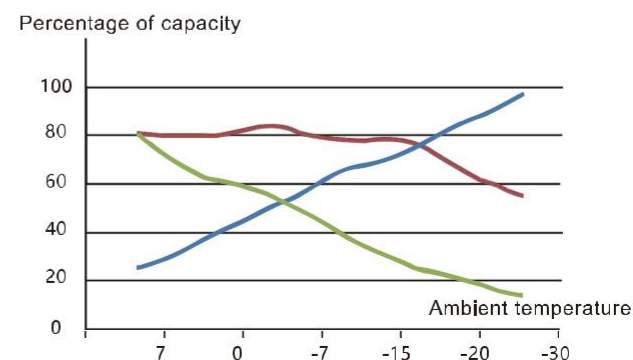
- R410a, R22, R407c refrigerant is available.



Powerful heating in low temperature -30°C, better than air conditioning.

- AIROSD low-temperature air heater
- Customer demand
- Ordinary air-conditioner

The lower the temperature, the more heat needs. AIROSD ultra-low temperature air heater heating capacity does not attenuate at -20°C, perfectly solve the user required; ordinary air conditioning with low ambient temperature, heating significantly reduced.

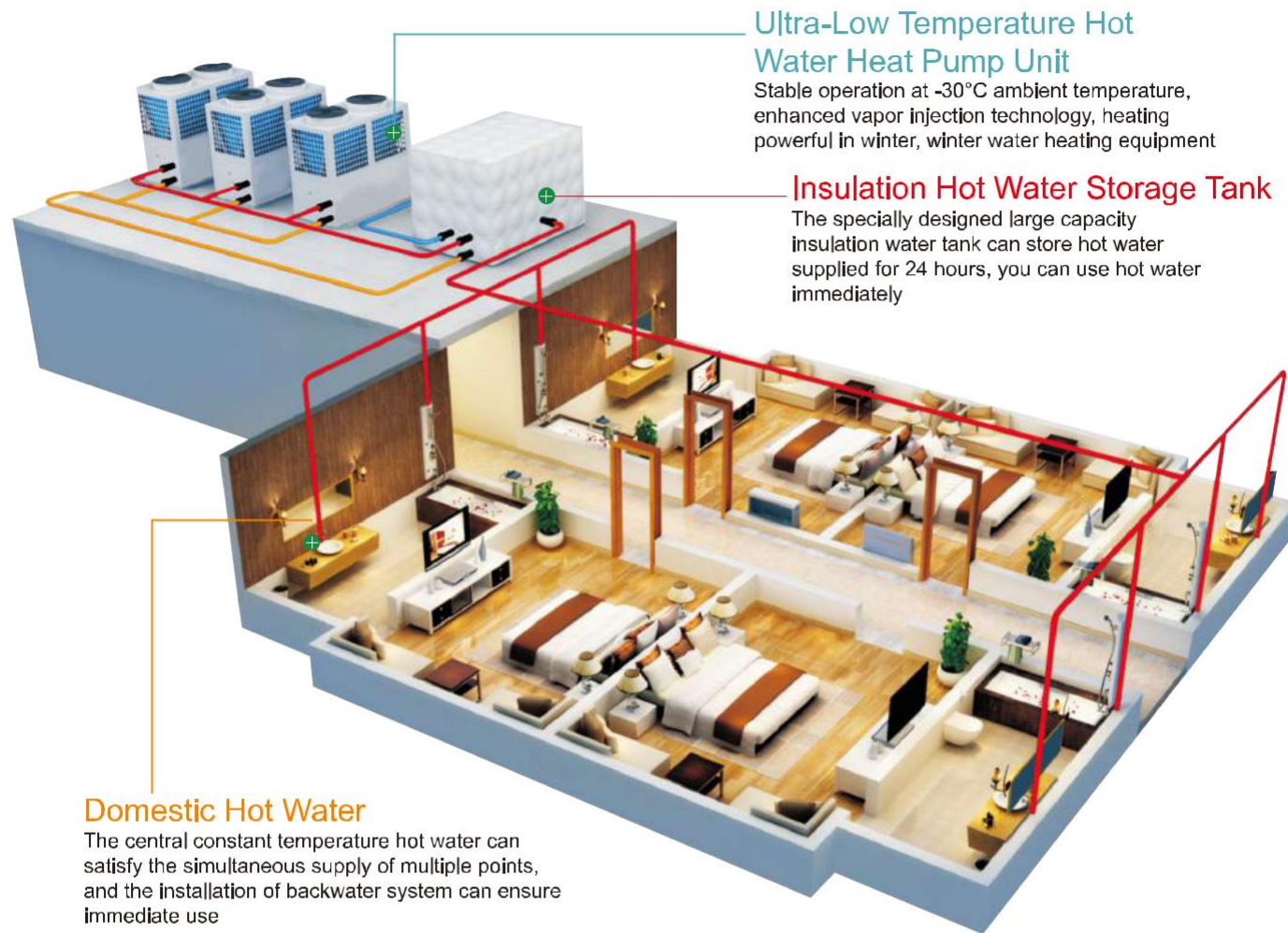


Ultra-low temperature air heater

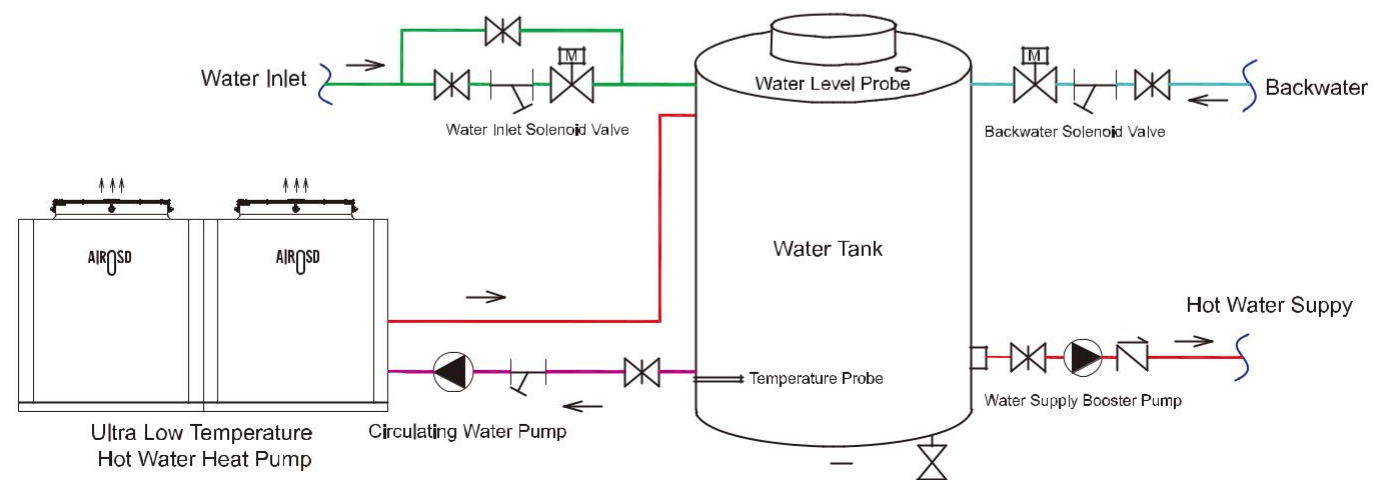
MODEL			BFFR-30LW	BFFR-40LW
Ambient temp. range		°C	-30~+46°C	
Rated voltage /frequency			220V 1N~50Hz	
Heating capacity ^a	Rated heating capacity (-12°C)	w	3000	4000
	High tem. heating (7°C)	w	3000	4000
	Low tem. heating (-20°C)	w	3000	4000
Input power	Rated heating capacity (-12°C)	w	1300	1740
	High tem. input power	w	830	1110
	Low tem. input power	w	1500	2000
Input current	Rated input current	A	5.97	7.99
	High tem. input current	A	3.81	5.10
	Low tem. input current	A	6.89	9.18
COP	-12°C	/	2.3	2.3
	7°C	/	3.6	3.6
	-20°C	/	2	2
Maximum input current		A	11.4	15
Maximum input power		w	2500	3300
Compressor form		/	DC inverter compressor	
Number of compressor		pcs	1	1
Refrigerant		/	R410A/1.2kg	R410A/1.4kg
Noise	Indoor unit	dB (A)	42	42
	Outdoor unit	dB (A)	53	53
Dimension	Indoor unit (W×D×H)	mm	700×640×215	
	Outdoor unit (W×D×H)	mm	840×280×610	840×310×730
Net weight	Indoor unit	kg	15	15
	Outdoor unit	kg	40	43
Indoor air volume		m³/h	650	680
Protection class		/	I class	
Indoor and outdoor machine connection tube specifications		connecting tube	φ6.35, φ9.52	

a: Heating test conditions, DB20°C, WB15°C. If there is any change, please use the nameplate parameter as the standard.

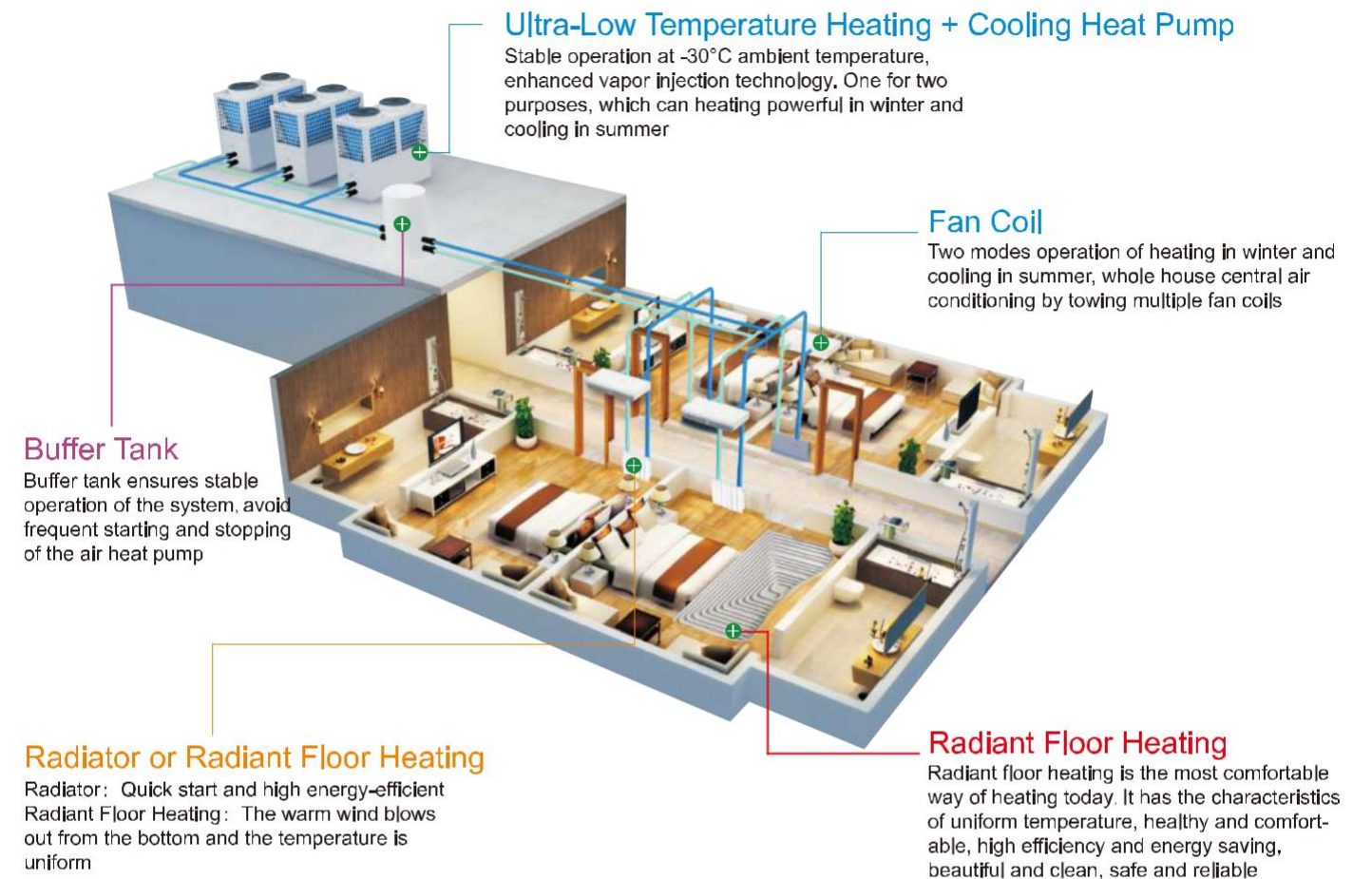
Suitable for central hot water such as real estate projects, large scale commercial establishments.



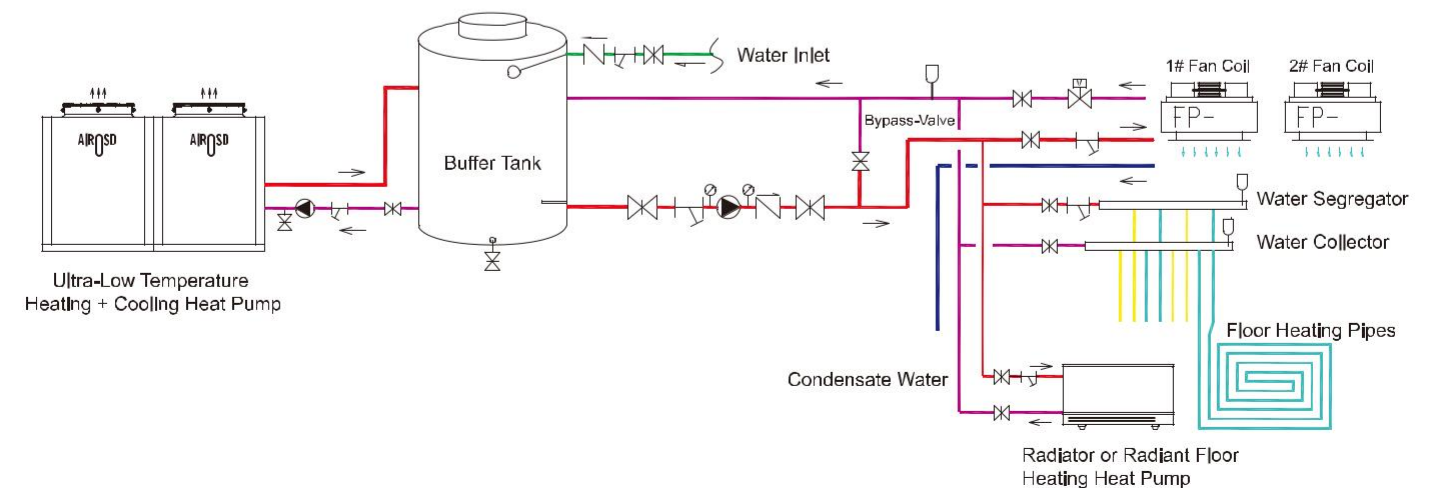
Ultra-low temperature central hot water installation diagram



Suitable for large place heating in winter and cooling in summer



Ultra-low temperature heating & central AC installation diagram



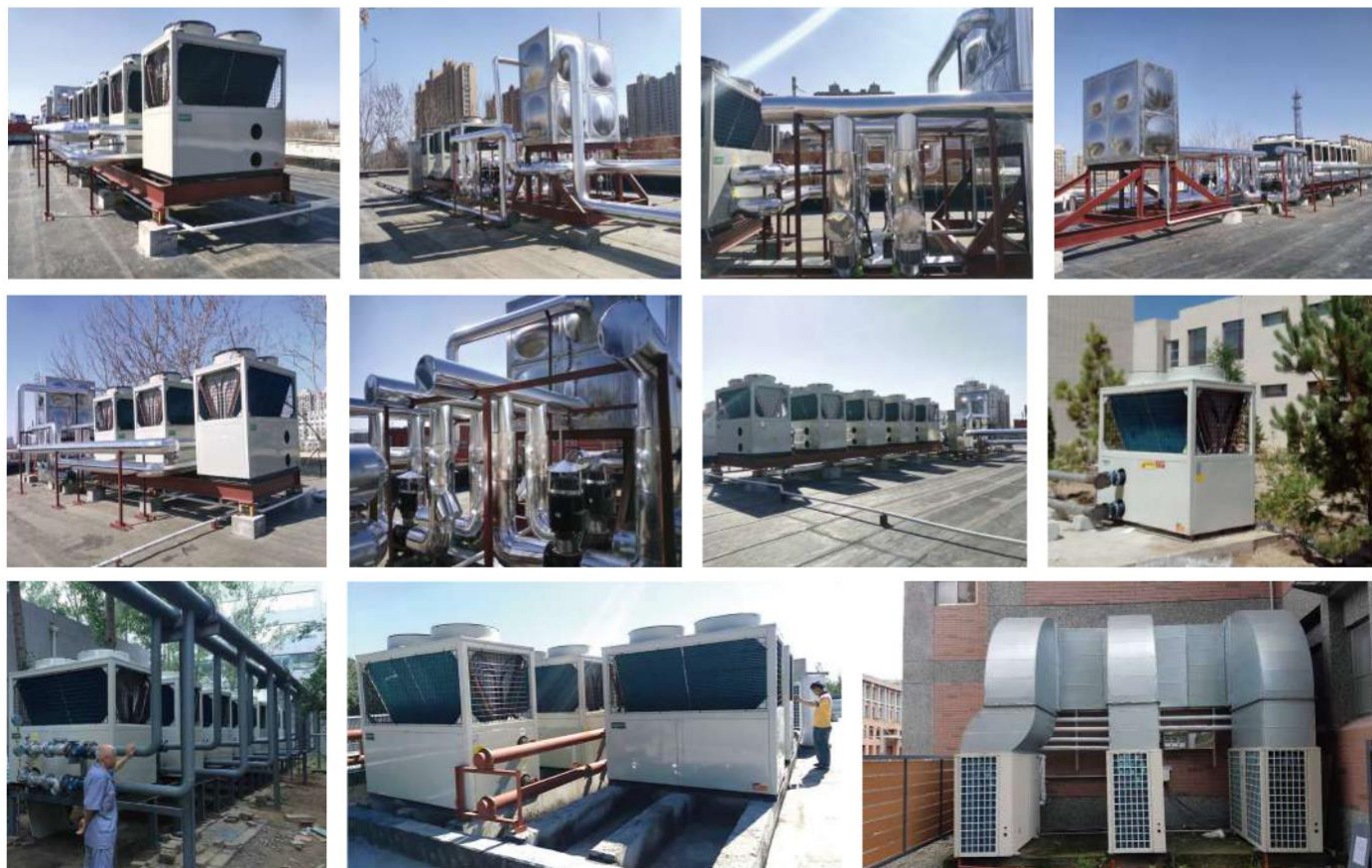
Greenhouse heating project cases



Villa heating project cases



School heating project cases



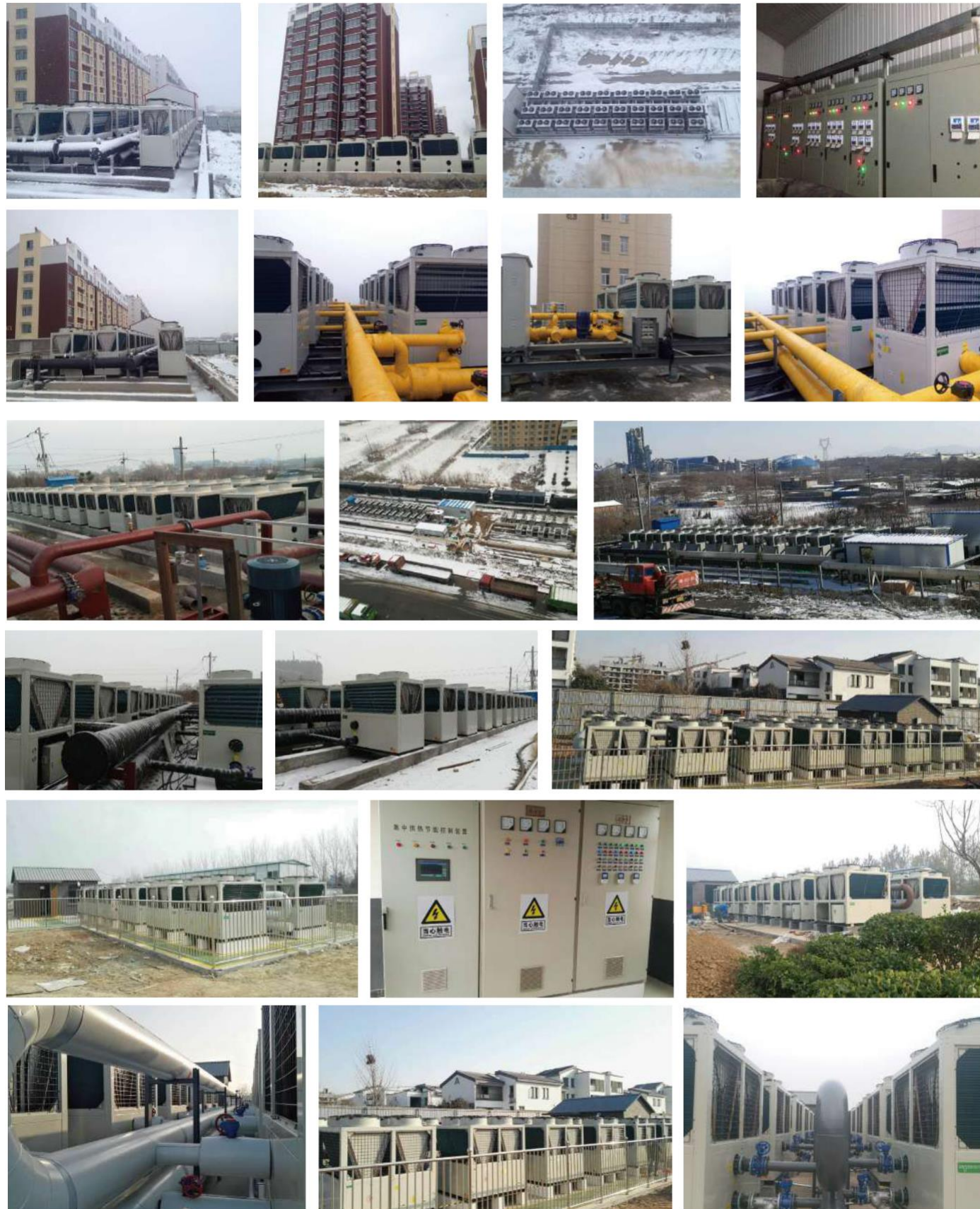
Hospital heating project cases



Staff dormitory heating project cases



Neighbourhood central heating project cases



Children activity center heating project cases



Industrial heating project cases



Drying project cases



Residential heating project cases



Bath central heating project cases



Residential hot water project cases



School hot water project cases



