AIROSD

EMERSON

MITSUBISHI ELECTRIC
Changes for the Better

SIEMENS

GRUNDFOS

Panasonic

Schneider Electric

wilo

GMCC

HuiLian APP

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AIROSD CREATE A NEW GREEN WORLD

Central hot water solution

EVI
Powerful heating at -25℃ Celsius

CO_2

EcoSmart
Smart energy saving technology

European Commission
EPREL• European Product Registry for Energy Labelling

Bundesamt für Wirtschaft und Ausfuhrkontrolle
BAFA

TÜV SÜD

SG Ready

MCS
CERTIFIED

UK CA

CE

ETL LISTED

European Bank
for Reconstruction and Development

GEFF
Green Economy Financing Facility

Quality-guaranteed Components

AIROSD has a mature supply chain system. International brands such as Mitsubishi and Panasonic have a long history of cooperation with AIROSD and have entered strategy cooperative relationship, which can be one of AIROSD core advantage in product quality and stability.

EMERSON · MITSUBISHI ELECTRIC Changes for the Better · SIEMENS

GRUNDFOS · Panasonic · +GF+

Schneider Electric · wilo · CALEFFI

Company Strength

76+	600+	50000+	25	1000+
Countries&Regions Business Covering	Units Heat Pump Daily Capacity	Square Meters Two Factory Area	Days Shortest Lead Time	People Total Employees

Manufacturing Center

With 2 production bases（FOSHAN、HENAN）, AIROSD manufacturing center monitors all the production lines by MES system to improve the efficiency. As one of the largest heat pump manufacturers in China, our daily production capability can achieve 600 units.

Social Responsibility

Our mission is to let the staff stay happy with us, achieve customer's success, fulfill our social responsibilities.Our values are passion for innovation, cooperation and sharing, honesty and professionalism.

Technology Strength

With a strong technical force of over 100 people and the power of modern technology R&D center, AIROSD has obtained 200+ patents which cover many fields as super low temperature EVI, defrosting, inverter technology, etc. Moreover, our products are certified by the standard of most countries in the world.

Market Strategy

AIROSD mainly cooperates with customers on an OEM/ODM basis. Moreover, in order to satisfy more and more complex and demanding market, customized solution for swimming pool heating, house heating/cooling and hot water application can be made to our partners from high-end market.

EVI
Powerful heating
at -35°C Celsius

CENTRAL
HOT WATER
AIROSD

AIROSD
Central hot water

-35°C
Powerful heating
HEATING

AIROSD
EcoSmart
Smart energy
saving technology

AIROSD

20 years of professional experience

Professional and accurate tailor-made central hot water solution

AIROSD air energy water heaters are widely used in **schools, hospitals, hotels, catering, office buildings, water clubs, factories, foot baths, swimming pools, laundry and other places.**

CE UKCA MCS CERTIFIED BAFA Bundesamt für Wirtschaft und Ausfuhrkontrolle SG Ready Smart Heat Pumps A+++ UL Intertek

All in One DC Inverter Water Heater

The Air Exhaust DHW cylinder uses waste heat in your home to supply all of your domestic hot water requirements via its integral heat supply.

Wi-Fi Control

Easy installation: The all-in-one machine integrates compressors, condensers, evaporators and other components in one casing, eliminating the need to connect and install indoor units and outdoor units like split air conditioners, reducing the complexity and workload of installation, and saving installation time and cost.

Small space occupation: Due to the compact structure of the all-in-one machine, it does not need to occupy additional outdoor space, which is an ideal choice for places with limited space, such as small offices, apartments, shops, etc.

Multiple protection systems ensure water safety

- Leakage protection
- Safety grounding protection
- Current protection
- Anti freezing protection
- Fan protection
- Sensor fault protection
- System high voltage protection
- Anti backflow design protection
- System low voltage protection
- Compressor protection
- Memory chip protection
- Fault self diagnosis and protection

R134A ECO-friendly / R32 / R410A / R290						
Model			**KRS80-150V**	**KRS80-200V**	**KRS160-300V**	**KRS160-500V**	**KRS215-500V**
Water tank volume		L	150	200	300	500	500
Operating temp. range		℃	-5～43℃	-5～43℃	-5～43℃	-5～43℃	-5～43℃
Rated heating capacity		kW	3.7	3.7	7.5	7.5	10
Hot water production capacity		L/H	80	80	161	161	215
Rated input power		A	0.93	0.93	1.7	1.7	2.4
COP		W/W	4.0	4.0	4.38	4.38	4.17
Maximum operating current		A	5.75	5.75	13	13	17
Power supply		/	220V 1N～50Hz	220V 1N～50Hz	220V 1N～50Hz	220V 1N～50Hz	220V 1N～50Hz
Auxiliary electric heater		/	Optional	Optional	Optional	Optional	Optional
Ingress Protection		/	IPX4	IPX4	IPX4	IPX4	IPX4
Refrigerant/Maximum water outlet temperature	R410A/R32	℃	60℃	60℃	60℃	60℃	60℃
	R134A/R290	℃	75℃	75℃	75℃	75℃	75℃
Compressor Qty		pcs	1				
Compressor type		/	Rotary				
Compressor brand		/	HIGHLY/GMCC/Panasonic				
Water connection specifications		in	G 3/4″ Female Thread	G 3/4″ Female Thread	G 3/4″ Female Thread	G 3/4″ Female Thread	G 3/4″ Female Thread
Sound pressure level at 1 meter		dB(A)	52	52	54	54	56
Package dimensions (L×W×H)		mm	640×640×1470	640×640×1770	1065*825*2110	1215*825*2160	1215*825*2160
N.W.		kg	61	65	210	256	262

Test conditions :
Dry bulb/Wet bulb = 20°C/ 15°C, inlet water temperature 15°C, outlet water temperature 55°C

AIROSD-All in one hot water heat pump for Australia market (R290)

Enameled Inner Tank

280,000 pulse pressure tests, no leakage, no scaling, corrosion resistance, clean and healthy water quality

Silent Operation

Sealed cabin with sound insulation board, optimized design of the noise reduction system for the whole water heater, noise control in the indoor environment level.

Dedicated Brand Compressor

Dedicated brand compressor, higher heating efficiency, supplying hot water without waiting.

Intelligent External Controller

Fashionable appearance design, simple and exquisite.

Refrigerant R290

New upgrade, Higher STC value, Watermark certified.

Model	KRS60A-270V	KRS60A-300V	KRS60A-330V
STC	Thirty - six STCs	Thirty - six STCs	Thirty - six STCs
VEEC1D	10 and11	10 and 11	10 and11
VEEC3C	9	9	9
Rated capacity	270L	300L	330L
Product color	Gray	Gray	Gray
COP	5.4	5.4	5.4
Power supply	220V~/50Hz	220V~/50Hz	220V~/50Hz
Heating capacity	2650W	2650W	2650W
Hot water volume	60L/h	60L/h	60L/h
Rated maximum water temperature	75℃	75℃	75℃
Maximum input power	2000W	2000W	2000W
Rated power of heat pump	958W	958W	958W
Rated power of electric heating tube	1000W	1000W	1000W
Rated water pressure	0.85MPa	0.85MPa	0.85MPa
Sound pressure level at 1 meter	48dB(A)	48dB(A)	48dB(A)
Weight	114kg	126kg	138kg
Refrigerant/Weight	R290/450g	R290/450g	R290/450g
Environmental temperature Range	-7~47℃	-7~47℃	-7~47℃
Maximum suction/exhaust working pressure	0.95/3.1MPa	0.95/3.1MPa	0.95/3.1MPa
Allowable working pressure on low/high pressure side	0.95/3.1MPa	0.95/3.1MPa	0.95/3.1MPa
Maximum working pressure of heat exchanger	3.1MPa	3.1MPa	3.1MPa
Product Dimensions (L×W×H)	Φ650×1729mm	Φ650×1855mm	Φ650×1981mm
Package Dimensions (L×W×H)	700×700×1820mm	700×700×1950mm	700×700×2070mm

Test conditions:
The test conditions for he above data: dry bulb temp. 20°C/wet bu b temp. 15°C, inle water temp. 15°C, outlet water temp. 55°C.

AIROSD-All in one hot water heat pump for Europe market (R290)

Inte ligent External Controller

The beauti ul and exquisite control panel can be installed anywhere on the wall, easy to use, showing high-end style.

Higher Energy Efficiency

Bui t-in electronic expansion valve, inte ligent control the refrigerant flow, precise temperature control, energy saving.

Integrated Design, Easy Installation

Space saving, easier and faster installation.

Durable

Dedicated brand heat pump compressor, high efficiency, long life, 6-year warranty.

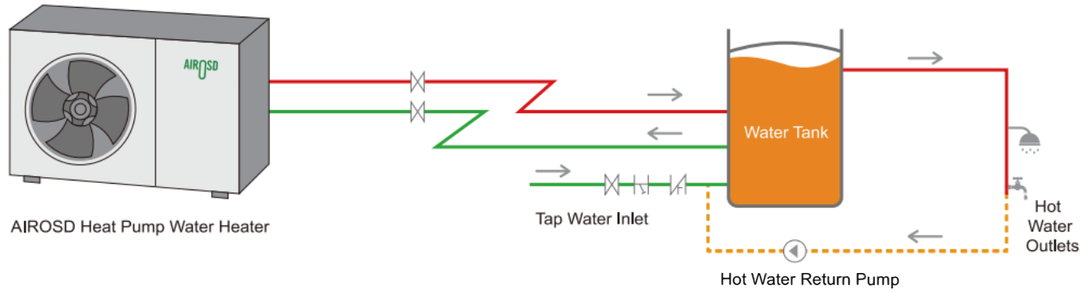
Refrigerant R290

New upgrade, Higher STC value, Watermark certified.

Model	KRS35A-200VD	KRS35A-300VD
Rated capacity	200L	300L
Product color	Frosty white	Frosty white
COP 20/14/7	4.3/3	4.3/3
Power Supply	220V~50Hz	220V~
Heating capacity	1500W	1500W
Hot water volume	35L/h	35L/h
Rated maximum water temperature	75℃	A
Maximum input power	3100W	3100W
Rated power of heat pump	375W	375W
Rated power of electric heating tube	2500W	2500W
Rated water pressure	0.8MPa	0.8MPa
Sound pressure level at 1 meter	42dB(A)	42dB(A)
Weight	95kg	129kg
Refrigerant Weight	R290/150g	R290/150g
Environmental temperature Range	`-7~45℃	`-7~45℃
Maximum suction/exhaust working pressure	1.0/3.0MPa	1.0/3.0MPa
Allowable working pressure on low /high pressure side	1.0/3.0MPa	1.0/3.0MPa
Maximum working pressure of heat exchanger	3.0MPa	3.0MPa
Product Dimensions (L×W×H)	Φ520×1978mm	Φ650×1855mm
Package Dimensions (L×W×H)	600×600×2050mm	700×700×1950mm
Air inlet and outlet methods	Push in and push out	Push in and push out

Test conditions:
The test condi ons fo the above data: dry bulb temp. 20 C/wet bulb temp. 15°C, inlet water temp. 15 C, outlet water temp. 55°C.

Household heat pump water heater



Features:

- 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 ef iciency up to COP 4.5.
- Energy saving up to 80% than traditional electric heater.
- Automatica ly defrosting.

R32 R410A

Model		KFXR-003SMPI	KFXR-005SMPI	KFXR-007SMPI	KFXR-010SMPI
Operating temp. range	℃	-15~+45℃			
Rated heating capacity	kW	3.7	5	7.5	10
Hot water output	L/H	80	108	161	215
COP	W/W	4.25	4.35	4.38	4.17
Rated power input	kW	0.87	1.15	1.71	2.4
Maximum operating current	A	A	8.5	13.1	17
Power supply	/	220V1N~50Hz			
Ingress protection	/	IPX4			
Safety devices	/	High and low pressure protection,Overload protection,Temperature protection			
Refrigerant	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Compressor type	/	Rotary type			
Compressor brand	/	HIGHLY/GMCC/Panasonic			
Maximum water outlet temperature	℃	60℃			
Water connection specifications	in	G3/4"Female Thread	G3/4"Female Thread	G3/4"Female Thread	G3/4"Female Thread
Water flow rate	m^3/h	0.6	0.84	1.3	1.72
Sound pressure level at 1 meter	dB/(A)	51	53	54	56
Product dimensions (L×W×H)	mm	750×280×505	930×330×550	1000×330×620	1115×425×700
Package dimensions (L×W×H)	mm	875x342x540	1050x380x590	1120x380x660	1180x500x800
N.W	kg	41	57	65	65
G.W	kg	46	63	72	72
Water Tank Matching	/	150L/200L	200L/250L/300L	300L/400L/500L	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.
3. The heat pump system is suitable for city water that meets the national standard. If use groundwater, well water, etc., it must be treated to reach the national standard tap water quality before use. If the water quality is poor, install a filter and water processor.

DC Inverter

Circulation-type Heat Pump Water Heater

providing an endless supply of surging hot water

to meet the demands of multi-story estates and duplex villas.

Comfortable Villa Series

Primary energy efficiency with high water output

– the ultimate choice for villas!

R410A

The AIROSD Air Source Heat Pump Water Heater VFD Pro utilizes innovative DC inverter technology and COP dynamic tracking locking technology. Its self-adjusting heating process dynamically locks in energy-saving peaks. In addition, the convection heat exchange system increases hot water production by 30%, making it easy for the entire family to enjoy continuous showers.

Tranquil Experience

Triple noise reduction for true quietness – sound absorption, insulation, and vibration buffering work together to minimize noise, delivering a genuinely peaceful environment without disturbance.
DC Inverter – More Energy Efficient

Multiple Anti-Freeze Protections

Equipped with multiple anti-freeze protection mechanisms, the system continuously monitors ambient and outlet water temperatures, providing temperature compensation as needed to prevent pipe freezing and cracking. Ensures more stable operation during winter.

Large water flow configuration

Enjoy 60°C high-temperature water without the need to drain cold water or wait, ensuring a refreshing shower at any time.

Dimension / weight of optional water tank

Model	Dimensions (diameter*H)	Weight
150L	470x1500mm	30kg
200L	520x1580mm	40kg
250L	560x1580mm	55kg
300L	580x1850mm	75K0
400L	700x1580mm	82K9
500L	700x1800mm	92kg

Model		BKFXR-010SMI
Operating temp. range	℃	-15～43℃
Nominal heating capacity	kW	10
Hot water output	L/h	215
COP	W/W	4.2
Nominal input power	kW	2.38
Max operating current	A	A
Power supply	/	220V 1N～50Hz
Ingress protection	/	IPX4
Safety devices	/	High and low voltage protection, overload protection, temperature protection
Refrigerant	/	R410A
Number of compressors	pcs	1
Compressor type	/	DC Inverter rotor
Compressor brand	/	Panasonic
Max outlet water temperature	℃	60℃
Condenser type	/	High Efficient tank
Water connection specifications	in	G1'' Female Thread
Water flow rate	m³/h	1.72
Air discharge direction	/	Side Discharge
Number of fans	pcs	1
Sound pressure level at 1 meter	dB(A)	54
Product dimensions (L×W×H)	mm	1115×425×700
Package dimensions (L×W×H))	mm	1180×500×800
N.W	kg	70
Operating weight	kg	80
Water tank matching	/	300L-500L

AIROSD Refrigerant circulating hot water

①Energy efficient, it heats water through air heat.

②Use environmentally friendly refrigerant to reduce carbon emissions.

③Stable supply of constant temperature hot water.

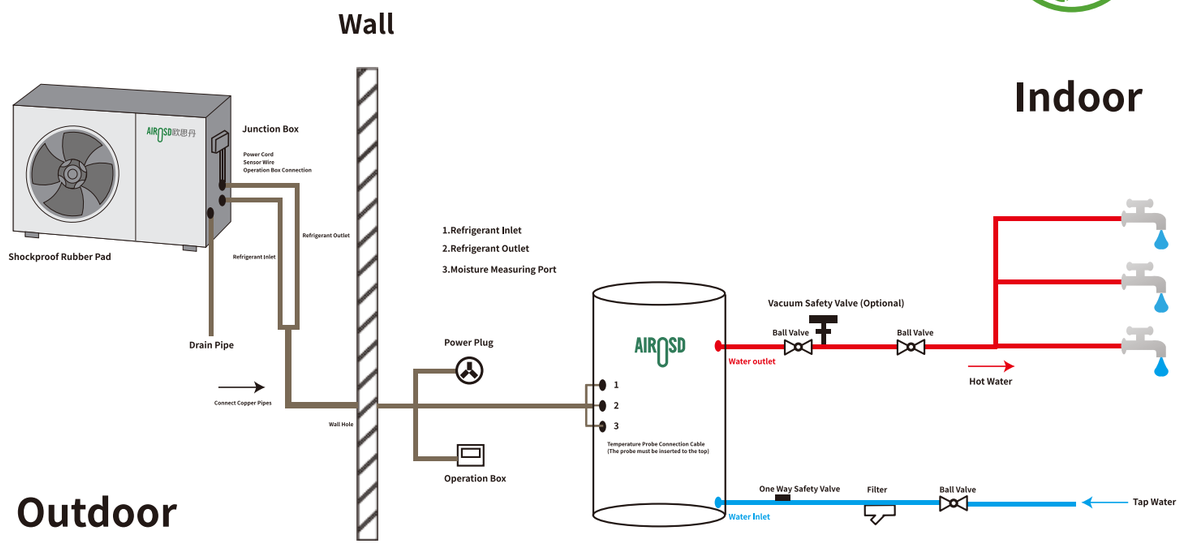
④Adapt to various climate environments

⑤Intelligent control, convenient remote operation.

R32 R410A					
Model		**KF70-NW**	**KF80-NW**	**KF120-NW**	**KF160-NW**
Operating temp. range	℃	-15 ~ +45℃			
Power supply	/	1N ~ /50Hz/220V			
Maximum water outlet temperature	℃	60℃			
Rated heating capacity	kW	3.26	3.7	5.5	7.5
Hot water output	L/H	70	80	120	160
COP	W/W	A	4	4	4
Heating input power	kW	0.80	0.93	1.38	1.88
Maximum operating current	A	5.03	5.75	7.1	9.5
Refrigerant	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Compressor type	/	Panasonic Fixed Frequency			
Sound pressure level at 1 meter	dB(A)	51	52	53	54
Ingress protection	/	IPX4			
Safety devices	/	High and Low Pressure Protection Overload Protection Temperature Protection			
Connecting pipe	in	1/4", 3/8"			
Water connection specifications	in	G5/8" Female Thread			
Safety valve specification	MPa	1.2			
Product dimensions (L×W×H)	mm	850x300x610			
Package dimensions (L×W×H)	mm	950x400x760			
N.W.	Kg	30	32	47	55

Remarks:
1. Test conditions: (DB/WB) 20°C / 15°C, inlet water temp. 15°C, outlet water temp. 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.
3. The heat pump system is suitable for city water that meets the national standard. If use groundwater, well water, etc., it must be treated to reach the national standard tap water quality before use. If the water quality is poor, install a filter and water processor.

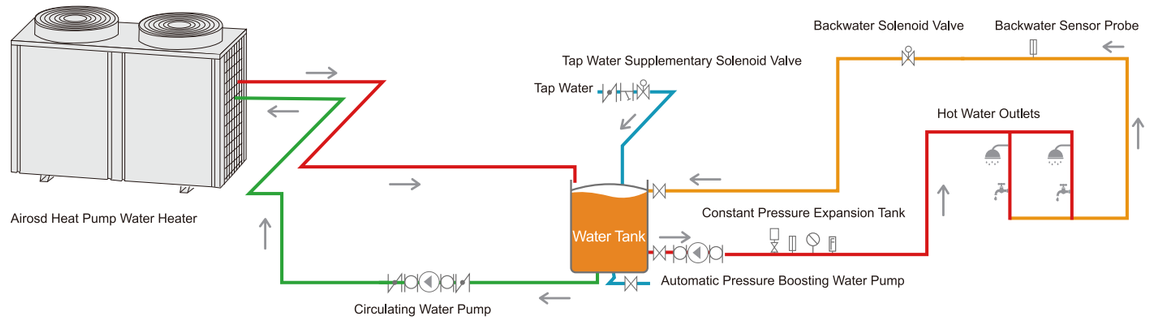
Fluorine cycle schematic diagram



Commercial Heat Pump Water Heater

Features:

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



Eco-friendly R32 refrigerant R32 R410A						
Model		**KFXR-010UI**	**KFXR-018UII**	**KFXR-023UII**	**KFXR-036UII**	**KFXR-045UII**
Operating temp. range	℃	-15～45℃	-15～45℃	-15～45℃	-15～45℃	-15～45℃
Nominal heating capacity	kW	10	18	23	36	45
Hot water output	L/h	215	387	495	774	968
COP	W/W	4.17	4.28	4	4.2	4.2
Nominal input power	kW	2.4	4.2	5.75	8.57	10.7
Max operating current	A	17	9.7	16	24.8	30
Power supply	/	220-240V～/50Hz	380-415V/3N～/50Hz	380-415V/3N～/50Hz	380-415V/3N～/50Hz	380-415V/3N～/50Hz
Ingress Protection	/	IPX4	IPX4	IPX4	IPX4	IPX4
Safety devices	/	High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.				
Refrigerant	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Number of compressor	pcs	1	1	1	2	2
Compressor type	/	Scroll				
Compressor brand	/	Copeland				
Max output temperature	℃	60℃				
Exchanger type (water side)	/	High Efficient tank/tube casing				
Evaporator	/	Hydrophilic Aluminum Foil Fin Heat Exchanger				
Water connection specifications	in	G3/4" Female Thread	G1" Female Thread	G1.2" Female Thread	G1.5" Female Thread	G1.5" Female Thread
Water Flow Rate	m^3/h	1.72	3.1	3.95	6.2	7.74
Air Discharge Direction	/	Top Discharge				
Number of fans	pcs	1			2	
Sound pressure level at 1 meter	dB(A)	56	56	57	59	65
Product dimensions (L×W×H)	mm	750×690×870	750×690×1070	830×793×1084	1500×690×1070	1500×690×1380
Package dimensions (L×W×H))	mm	800×740×1000	800×740×1200	900×930×1200	1550×740×1200	1550×740×1400
N.W.	kg	110	130	150	290	350
Operating weight	kg	130	150	170	330	390

Test conditions:
Dry bulb temperature 20°C / Wet bulb temperature 15°C, initial water temperature 15°C / final water temperature 55°C.

WAR intelligent control system

SAC refrigerant loop technology

Smart backwater

Intelligent cream

Modules are multi-linked

Economical

The product is environmentally friendly, energy-saving, and has lower operatingcosts.so asto achieve the effect of energy saving and power saving, and at the same time, it can realizethe sub-household calculation volume to achieve convenient management.

Centralized control

It can be easily controlled independently in the room or in the whole building.

Comfort

The central hot water experience with constant temperature and pressure makes people feel happy physically and mentally, making work and life more comfortable.

KFXR-070U/3

Commercial Heat Pump Water Heater

AROSD provides one-stop central hot water solutions for commercial offices.hotels, factories, hospitals, and schools, and a series of products can be used together to meet the central hot water needs of different buildings.

R32 R410A					
Model		**KFXR-070UII/3**	**KFXR-090UII**	**KFXR-120UMII**	**KFXR-180UMII**
Operating temp. range	℃	-15～45℃	-15～45℃	-15～45℃	-15～45℃
Nominal heating capacity	kW	70	90	120	180
Hot water output	L/h	1505	1935	2580	3870
COP	W/W	4.1	4.1	4.3	4.1
Nominal input power	kW	17	21.9	27.8	44.0
Max operating current	A	45	58	75	116
Power supply	/	380V 3N～50Hz	380V 3N～50Hz	380V 3N～50Hz	380V 3N～50Hz
Ingress protection	/	IPX4	IPX4	IPX4	IPX4
Safety devices	/	High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.			
Refrigerant type	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Number of compressor	pcs	3	2	2	2
Compressor type	/	Scroll			
Compressor brand	/	Copeland		Invotech	Copeland
Max output temperature	℃	60℃			
Exchanger type (water side)	/	High Efficient tank			
Evaporator	/	Copper tube finned exchanger			
Water connection specifications	in	DN65 Flange	DN65 Flange	DN100 Flange	DN80 Flange
Water flow rate	m^3/h	12.04	15.48	20.6	31.0
Air discharge direction	/	Top Discharge			
Number of fans	Pcs	3	2		
Sound pressure level at 1 meter	dB(A)	69	72	72	74
Product dimensions (L×W×H)	mm	2095×1005×1855	2020×990×1950	2100×1100×2180	2250×1350×2400
Package dimensions (L×W×H)	mm	2195×1105×1955	2120×1090×1990	2260×1360×2270	2300×1500×2550
N.W.	kg	700	800	900	1000
Operating weight	kg	750	860	950	1100

Test conditions:
Dry bulb temperature 20°C / Wet bulb temperature 15°C, initial water temperature 15°C / final water temperature 55°C.

Ultra-low Temperature Heat Pump Water Heater

Solve the hot water demand in the cold are as of the north, and the ambient temperature is stable and strong heating at -35℃

EVI

R32 R410A					
Model		**DKFXR-018UMII**	**DKFXR-23UMII**	**DKFXR-033UMII**	**DKFXR-045UMII**
Heating type	/	Circulation type			
Operating temp. range	℃	-35～43℃			
Nominal heating capacity	kW	16.5	23	33	45
COP	W/W	3.7	3.8	3.8	3.8
Nominal input power	kW	4.45	6.05	8.7	11.8
Hot water output	L/H	308	430	617	840
Maximum operating current	A	12.5	16	26	32
Power supply	/	380/3N~ /50Hz			
Ingress protection	/	IPX4			
Safety devices	/	High and low voltage protection, overload protection, temperature protection, power phase sequence protection, etc			
Refrigerant	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Number of compressor	pcs	1	1	2	2
Compressor type	/	Scroll compressor			
Compressor brand	/	Copeland、Invotech			
Max output temperature	℃	60℃			
Exchanger type (water side)	/	High Efficient tank			
Evaporator	/	Copper tube finned exchanger			
Water connection specifications	in	G1.0" Female Thread	G1.2" Female Thread	G1.5" Female Thread	G1.5" Female Thread
Water flow rate	m³/h	2.8	4.0	5.7	7.7
Air discharge direction	/	Top Discharge			
Number of fans	pcs	1	1	2	2
Sound pressure level at 1 meter	dB(A)	56	58	62	67
Product dimensions (L×W×H)	mm	750×690×1070	830x793x1084	1500×690×1270	1500×690×1270
Package dimensions (L×W×H)	mm	800×740×1200	900x930x1200	1550×740×1400	1580×750×1400
N.W.	kg	135	150	320	350
Operating weight	kg	155	170	350	370

Test conditions:
Dry bulb temperature 7°C / Wet bulb temperature 6°C, initial water temperature 9°C / final water temperature 55°C.

Strong adaptability: able to operate stably in extremely cold climate conditions of -35°C to ensure continuous supply of hot water.

Intelligent cream

Multi-control point sensing defrost control minimizes heat loss and meets winter water demand.

Modules are multi-linked

One machine with multiple connections, free expansion, and advanced micro-electric technology are used to make centralized control and management more convenient and worry-free

Smart backwater

Regular water return or temperature control water return water is truly ready to use, and domestic water does not need to wait

Anti-secondaryice growth technology

With high-precision electronic expansion valve, ultra-long years warranty

-35°C ultra-low temperature strong heating, efficient anti-freeze double insurance

Ultra-low temperature

-35°C strong heating, better use in winter to ensure that the machine is at a low temperature of -35°C, efficient heating to meet your bathing needs, no fear of severe winter!

Intelligent

Accurately judge and control the defrosting rhythm, grasp the defrosting time more accurately, and truly achieve frost and frost, no frost and no excess heat loss.

energy conservation

The double strengthening technology of the internal threaded pipe structure and the surface fin pressure greatly improves the heat exchanger area on the refrigerant side

Highly efficient

Low-temperature heating is more efficient to achieve precise control and efficient heat exchanger, and greatly improve the ratio of heat production and energy efficiency under low-temperature working conditions.

EVI Powerful heating at -35°C Celsius

-35°C Powerful heating HEATING

Ultra-low Temperature Heat Pump Water Heater

Environmentally friendly design: Using R32 environmentally friendly refrigerant, it complies with green





R32 R410A					
Model		**DKFXR-060UMII**	**DKFXR-070UMII**	**DKFXR-090UMII**	**DKFXR-170UMII**
Heating type	/	Circulation type			
Operating temp. range	℃	-35～43℃			
Nominal heating capacity	kW	65	70	90	170
COP	W/W	3.8	3.85	3.8	3.9
Nominal input power	kW	17.1	18.2	23.6	43.5
Hot Water Output	L/H	1215	1308	1682	3178
Maximum operating current	A	48	60	65	125
Power supply	/	380/3N~ /50Hz			
Ingress protection	/	IPX4			
Safety devices	/	High and low voltage protection, overload protection, temperature protection, power phase sequence protection, etc			
Refrigerant	/	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Number of compressor	pcs	3	2	2	2
Compressor type	/	Scroll compressor			
Compressor brand	/	Copeland、Invotech			
Max output temperature	℃	60℃			
Exchanger type (water side)	/	High Efficient tank			
Evaporator	/	Copper tube finned exchanger			
Water Connection Specifications	in	DN65 Flange	DN65 Flange	DN65 Flange	DN80 Flange
Water flow rate	m^3/h	11.2	12.04	15.48	29.2
Air Discharge direction	/	Top Discharge			
Number of fans	pcs	3	2	2	2
Sound pressure level at 1 meter	dB(A)	69	69	69	71
Product dimensions (L×W×H)	mm	2095x1005x1855	2020×990×1950	2020×990×1950	2250x1350x2400
Package dimensions (L×W×H)	mm	2195x1105x1955	2050×1090×1990	2050×1090×1990	2300x1500x2550
N.W.	kg	700	800	850	980
Operating weight	kg	750	850	900	1080

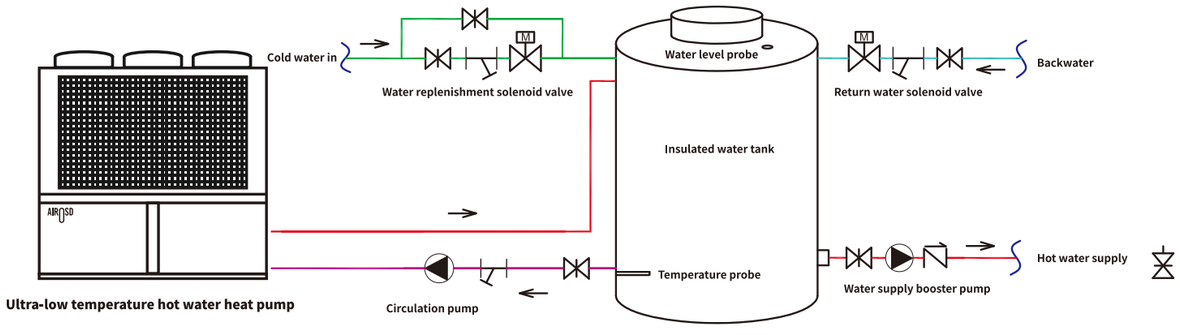
Test conditions:
Dry bulb temperature 7°C / Wet bulb temperature 6°C, Initial water temperature 9°C, Termination water temperature 55°C.

Specialty heat pump solutions

AIROSD provides one-stop solutions for high-temperature demand places, covering petroleum, electric power, electroplating plants, beer/milk/beverage production, textile printing and dyeing, washing, slaughtering, mining, smelting, heating, chemical and other areas.

EcoSmart
Smart energy saving technology

Ultra-low temperature central hot water installation diagram



Industrial-grade high-temperature heat pump

Provide 85℃ high temperature hot water

Equipped with an intelligent control system to accurately control the water temperature

Meet the requirements of process water and help the low-carbon tasks of industrial and mining enterprises

R134A ECO-friendly							
Model		**KFXG-013UAII**	**KFXG-026UAII**	**KFXG-035UAII**	**KFXG-052UAII**	**KFXG-065UAII**	**KFXG-120VAII**
Operating temp. range	℃	-15～45℃					-7～45℃
Nominal heating capacity	kW	13	26	35	52	66	120
COP	W/W	2.9	3.0	3.1	3.0	3.2	3.15
Heating input power	kW	4.48	8.67	11.3	17.3	20.5	38.1
Maximum operating current	A	12.5	26	35	48	55	110
Power supply	/	380V /3N～/50Hz					
Ingress Protection	/	IPX4					
Safety devices	/	High and low voltage protection, overload protection, temperature protection, power phase sequence protection, etc					
Refrigerant	/	R134A					
Number of compressor	pcs	1	2				
Compressor type	/	EVI scroll compressor					scroll compressor
Compressor brand	/	Copeland/Invotech					
Max output water temperature	℃	75～80℃					
Exchanger type (water side)	/	High Efficient tank/stainless steel tube casing					
Evaporator	/	Copper tube finned exchanger					
Water connection specifications	in	G1" internal thread	G1 1/2" Female Thread	G1 1/2" Female Thread	DN65 Flange	DN65 Flange	DN80 Flange
water flow rate	in	2.2	4.5	6	8.9	11.3	20.6
Air discharge direction	/	Top Discharge					
Number of fan	pcs	1	2				
Sound pressure level at 1 meter	dB(A)	56	65	65	69	70	72
Product dimensions (L×W×H)	mm	750×690×1070	1500×690×1070	1500×690×1380	2250x1350x2400	2020x990x1950	2250x1350x2400
Package dimensions (L×W×H)	mm	800×740×1200	1550×740×1200	1550×740×1400	2300x1500x2550	2050x1090x1990	2300x1500x2550
N.W.	kg	130	320	350	1000	700	1000
Operating weight	kg	150	370	400	1100	800	1100

Test conditions:

Dry bulb temperature 20°C / wet bulb temperature 15°C, inlet water temperature 60°C / outlet water temperature 65°C.

AIROSD Heat Pump

School section Hot water case

Project Name: Shandong University

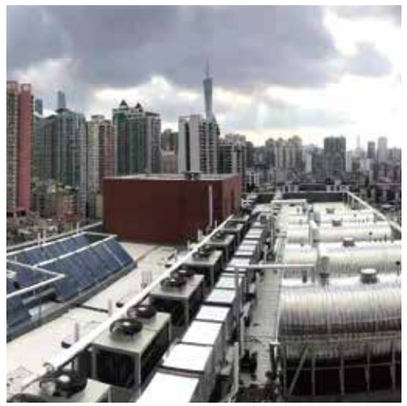
Project Duration: 2016

Project Overview:
Starting in 2016, to ensure sufficient hot water supply for student dormitories, Shandong University began installing AIROSD hot water units across three campuses: the Central Campus, Software Park Campus, and Xinglongshan Campus. These units provide efficient and stable hot water throughout the year, maintaining consistent and comfortable temperatures, ensuring reliable hot water access for students' daily needs.

Project Name: Sun Yat-sen University PhD Student Dormitory Hot Water Project

Equipment Model (Quantity): 20 units of 30HP hot water machines

Project Description:
The South Campus of Sun Yat-sen University installed 20 AIROSD 30HP circulating hot water units, paired with pressurized water tanks exceeding 200 tons in capacity. This setup meets the daily hot water needs of over 2,000 PhD students.



Project Location: Guangzhou, Guangdong

Project Duration: 2023
Equipment Model (Quantity): 247 units of 10HP hot water machines

Project Description:
In 2023, Sun Yat-sen University selected 247 AIROSD air source hot water units to supply hot water for student dormitories, making it the largest school hot water project awarded in China that year.

Some overseas projects