

# AIROSD

**Panasonic**



**SIEMENS**



**GRUNDFOS**



**Schneider Electric**

**wilo**

**GMCC**



HuiLian APP

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# AIROSD



## SWIMMING POOL HEAT PUMP ALL SEASON POOL HEATING

**A+++**

**R290**



## 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.



## Company Strength

|                                                      |                                                     |                                                    |                                            |                                           |
|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|--------------------------------------------|-------------------------------------------|
| <b>76+</b><br>Countries&Regions<br>Business Covering | <b>600+</b><br>Units<br>Heat Pump<br>Daily Capacity | <b>50000+</b><br>Square Meters<br>Two Factory Area | <b>25</b><br>Days<br>Shortest<br>Lead Time | <b>1000+</b><br>People<br>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 is passion for innovation, cooperation and sharing, honesty and professionalism.

## Technology Strength

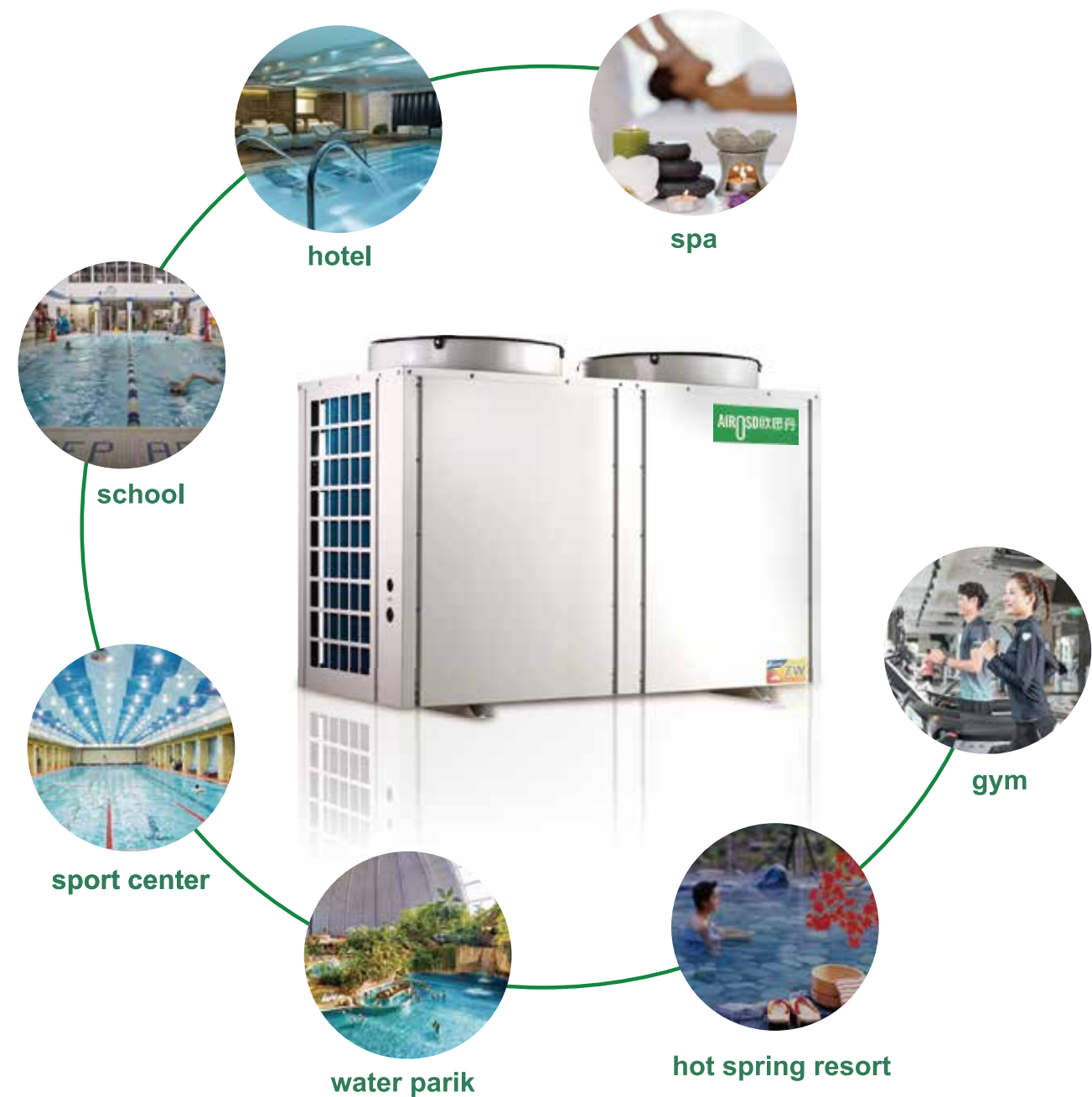
With a strong technical force of over 100 people and the power of modern technology R&D center, AIROSD has obtained 200+ patents which cover many fields as super low temperature EVI, defrosting, inverter technology, etc. Moreover, our products are certified by the standard of most countries in the world.

## 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.



# Application place



It's suitable for large pools in hotel, public parks, schools, sport center, gyms etc.



AIROSD 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.

## ● PVC Titanium heat exchanger

Titanium tube heat exchanger is made of high-quality industrial titanium precision, titanium purity of 99.7%, strong corrosion resistance, high conductivity, good heat resistance, suitable for low concentration, processing and cooling of acidic liquid; surface is not easy Produces an oxide layer, does not pollute the medium, is environmentally friendly, non-toxic, non-fouling, and not easy to block. The titanium heat exchanger is professionally welded, the welding interface is tight and firm, and it is not easy to leak.



## ● Copeland scroll compressor

Copeland scroll compressor has the virtue of simplicity of operation and easy to be automation, efficient and so on, owing to not having shuttle mechanism, high reliability, low noise, small changes in torque and smooth movement.





AIRQSD

### High efficiency heat exchanger

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



### 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.



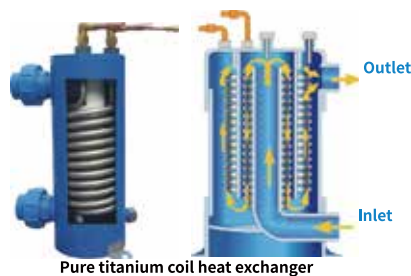
### Fast defrosting

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.



### LoT remote maintenance & management

The self-developed independent integrated control system can easily realize the functions of water temperature control, automatic circulating heating, automatic detection of the operation of the system module, timely warning, and automatic protection.



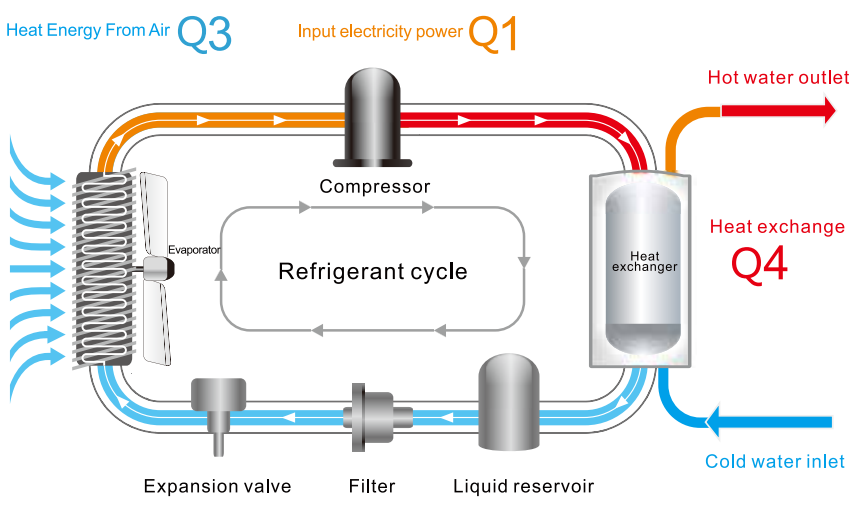
Pure titanium coil heat exchanger



## 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

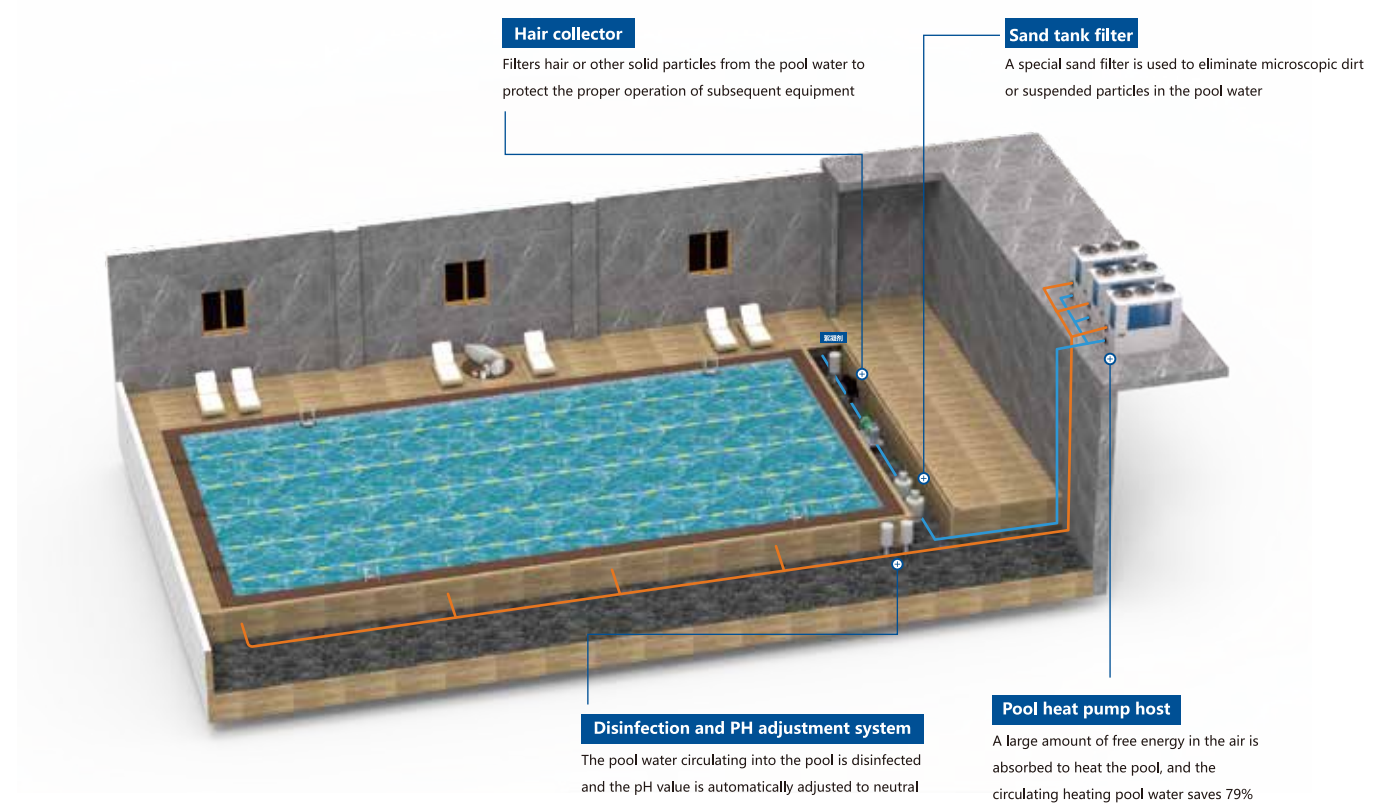
# How does heat pump work?



- 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  $Q4 = \text{air energy } Q3 + \text{electric energy } Q1$
- Q3 + Q1 = Q4

## Solutions for heated pools, baths, etc

It can be applied to swimming pools, baths, farms and other places.



## 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 CO<sub>2</sub> emission and save the liquid gas and electricity source. Protecting ecological sustainable development heat pump technology.

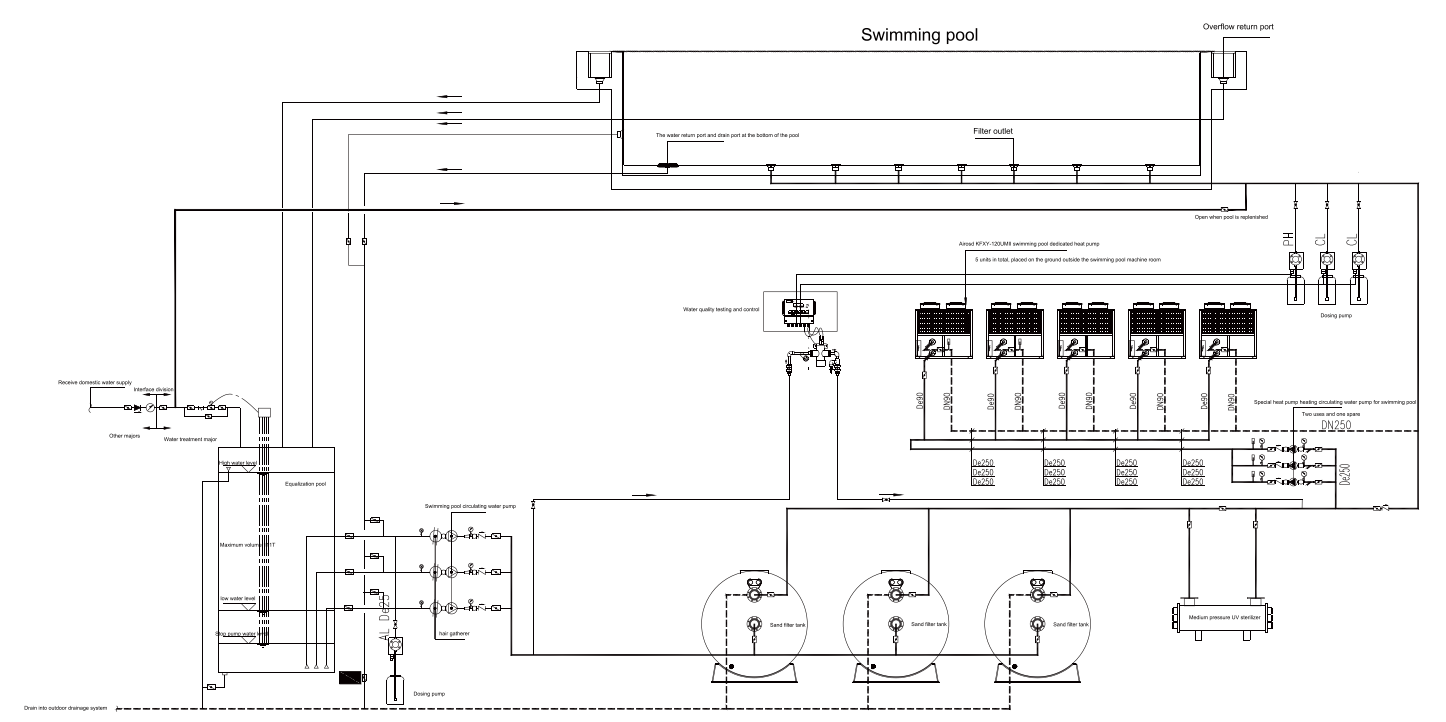
**Intelligent control without special maintenance**

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.

## Schematic diagram of swimming pool heat pump installation

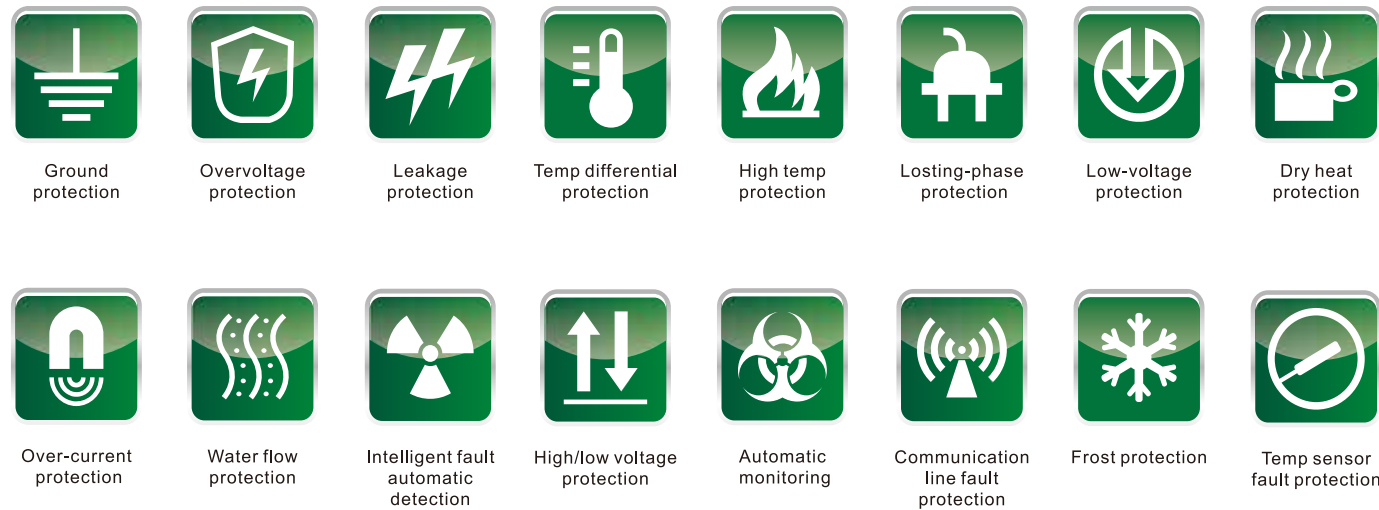


# Inverter pool heat pump

The control system of the inverter pool heat pump can intelligently adjust the operating speed of the compressor according to the current water temperature and set the water temperature.

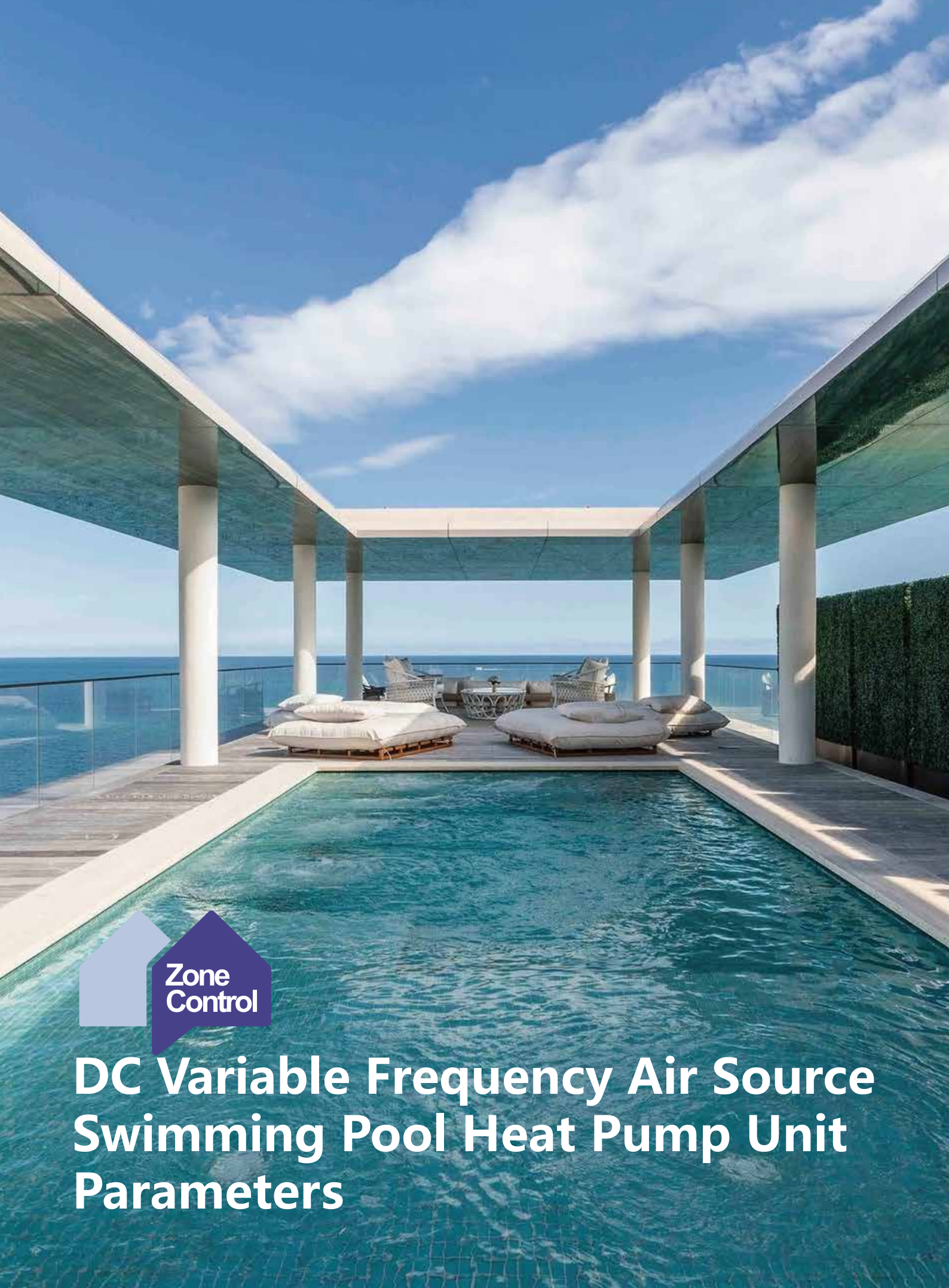


## Heating & Cooling Swimming Pool Heat Pump



|                                                                                     |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|
|  |       |  |         |  |         |  |         |  |         |  |         |
| Model                                                                               |       | BKFX-007SRI                                                                         |         | BKFX-010SRI                                                                         |         | BKFX-012SRI                                                                         |         | BKFX-016SRI                                                                         |         | BKFX-018SRI                                                                         |         |
| Heating mode                                                                        | /     | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         |
| Ambient temp. range                                                                 | ℃     | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         |
| Heating Capacity at Air 26℃, Humidity 80%, Water 26℃ in, 28℃ out                    |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                              | kW    | 7.00                                                                                | ~ 1.75  | 10.00                                                                               | ~ 2.50  | 12.00                                                                               | ~ 3.00  | 16.00                                                                               | ~ 4.00  | 18.00                                                                               | ~ 4.50  |
| Rated power input                                                                   | kW    | 1.17                                                                                | ~ 0.11  | 1.67                                                                                | ~ 0.16  | 2.00                                                                                | ~ 0.19  | 2.67                                                                                | ~ 0.25  | 3.00                                                                                | ~ 0.28  |
| COP                                                                                 | W/W   | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 |
| Heating Capacity at Air 15℃, Humidity 70%, Water 26℃ in                             |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                              | kW    | 5.32                                                                                | ~ 1.33  | 7.60                                                                                | ~ 1.90  | 9.12                                                                                | ~ 2.28  | 12.16                                                                               | ~ 3.04  | 13.68                                                                               | ~ 3.42  |
| Rated power input                                                                   | kW    | 1.06                                                                                | ~ 0.18  | 1.52                                                                                | ~ 0.25  | 1.82                                                                                | ~ 0.30  | 2.43                                                                                | ~ 0.41  | 2.74                                                                                | ~ 0.46  |
| COP                                                                                 | W/W   | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  |
| Cooling Capacity at Air 35℃, Water 29℃ in                                           |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated cooling capacity                                                              | kW    | 3.85                                                                                | ~ 0.96  | 5.50                                                                                | ~ 1.38  | 6.60                                                                                | ~ 1.65  | 8.80                                                                                | ~ 2.20  | 9.90                                                                                | ~ 2.48  |
| Rated input power                                                                   | kW    | 1.20                                                                                | ~ 0.15  | 1.72                                                                                | ~ 0.21  | 2.06                                                                                | ~ 0.25  | 2.75                                                                                | ~ 0.34  | 3.09                                                                                | ~ 0.38  |
| EER                                                                                 | W/W   | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  |
| Max. working current                                                                | A     | 8.5                                                                                 |         | 12                                                                                  |         | 16                                                                                  |         | 18                                                                                  |         | 20                                                                                  |         |
| Power supply                                                                        | /     | 220 1N~ 50Hz(60Hz)                                                                  |         | 220 1N~ 50Hz(60Hz)                                                                  |         | 220 1N~ 50Hz(60Hz)                                                                  |         | 220 1N~ 50Hz(60Hz)                                                                  |         | 220 1N~ 50Hz(60Hz)                                                                  |         |
| IP code                                                                             | /     | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         |
| Refrigerant                                                                         | /     | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         |
| Compressor QTY                                                                      | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Max. water outlet temperature                                                       | ℃     | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         |
| Water side heat exchanger type                                                      | /     | Titanium tube heat exchanger +PVC shell                                             |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Air side heat exchanger type                                                        | /     | Copper tube fin heat exchanger                                                      |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Circulating waterpipe nozzle                                                        | inch  | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         |
| Water flow                                                                          | m³/h  | 3.01                                                                                |         | 4.30                                                                                |         | 5.16                                                                                |         | 6.88                                                                                |         | 7.74                                                                                |         |
| Air out type                                                                        | /     | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         |
| Fan QTY                                                                             | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Noise                                                                               | dB(A) | 52                                                                                  |         | 53                                                                                  |         | 54                                                                                  |         | 55                                                                                  |         | 56                                                                                  |         |
| Packing Dimension (W*D*H)                                                           | mm    | 750×380×500                                                                         |         | 1000×360×620                                                                        |         | 1032×435×710                                                                        |         | 1185×485×710                                                                        |         | 1185×485×710                                                                        |         |
| N.W.                                                                                | kg    | 40                                                                                  |         | 60                                                                                  |         | 68                                                                                  |         | 78                                                                                  |         | 80                                                                                  |         |
| Running weight                                                                      | kg    | 45                                                                                  |         | 65                                                                                  |         | 73                                                                                  |         | 83                                                                                  |         | 85                                                                                  |         |

Remarks:  
1. Test conditions:  
a). <A26>Rated Heating: DB 26°C/Relative humidity 80%, inlet water temperature 26°C, outlet water temperature 28°C.  
b). <A15>Rated Heating: DB 15°C/Relative humidity 70%, inlet water temperature 26°C.  
c). Rated Cooling: DB 35°C, inlet water temperature 29°C.  
2. Due to product improvement, above datas are subject to change without priop notice, please take the rating plate as standard.  
3. This water heat pump system is only suitable for city water that meets the national standard, such as ground water, well water, etc., which is not covered by the warranty. If the water quality is poor, please install a filter and water processor.



# DC Variable Frequency Air Source Swimming Pool Heat Pump Unit Parameters

## Heating & Cooling Swimming Pool Heat Pump

### Features:

#### 1.Save space

There is no need to consider headspace height restrictions. Suitable for some small swimming pools or swimming pools with narrow installation locations.



#### 2.Installation is easier

The installation position of the side-exit heat pump is more flexible and can be more easily connected to the swimming pool equipment without being restricted by the height of the head space. This makes the installation process easier and the construction time relatively shorter.



#### 3.Aesthetics

The side air outlet design pays more attention to the aesthetic appearance and can better integrate with the surrounding environment. It is suitable for places such as families or resorts that require a coordinated appearance.



|                                                                                     |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|
|  |       |  |         |  |         |  |         |  |         |  |         |
| Model                                                                               |       | BKFX-021SRI                                                                         |         | BKFX-024SRI                                                                         |         | BKFX-028SRII                                                                        |         | BKFX-035SRII                                                                        |         | BKFX-040SRII                                                                        |         |
| Heating mode                                                                        | /     | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         |
| Ambient temp. range                                                                 | ℃     | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         |
| Heating Capacity at Air 26℃, Humidity 80%, Water 26℃ in, 28℃ out                    |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                              | kW    | 21.00                                                                               | ~ 5.25  | 24.00                                                                               | ~ 6.00  | 28.00                                                                               | ~ 7.00  | 35.00                                                                               | ~ 8.75  | 40.00                                                                               | ~ 10.00 |
| Rated power input                                                                   | kW    | 3.50                                                                                | ~ 0.33  | 4.00                                                                                | ~ 0.38  | 4.67                                                                                | ~ 0.44  | 5.83                                                                                | ~ 0.55  | 6.67                                                                                | ~ 0.63  |
| COP                                                                                 | W/W   | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 |
| Heating Capacity at Air 15℃, Humidity 70%, Water 26℃ in                             |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                              | kW    | 15.96                                                                               | ~ 3.99  | 18.24                                                                               | ~ 4.56  | 21.28                                                                               | ~ 5.32  | 26.60                                                                               | ~ 6.65  | 30.40                                                                               | ~ 7.60  |
| Rated power input                                                                   | kW    | 3.19                                                                                | ~ 0.53  | 3.65                                                                                | ~ 0.61  | 4.26                                                                                | ~ 0.71  | 5.32                                                                                | ~ 0.89  | 6.08                                                                                | ~ 1.01  |
| COP                                                                                 | W/W   | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  |
| Cooling Capacity at Air 35℃, Water 29℃ in                                           |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated cooling capacity                                                              | kW    | 11.55                                                                               | ~ 2.89  | 13.20                                                                               | ~ 3.30  | 15.40                                                                               | ~ 3.85  | 19.25                                                                               | ~ 4.81  | 22.00                                                                               | ~ 5.50  |
| Rated input power                                                                   | kW    | 3.61                                                                                | ~ 0.44  | 4.13                                                                                | ~ 0.51  | 4.81                                                                                | ~ 0.59  | 6.02                                                                                | ~ 0.74  | 6.88                                                                                | ~ 0.85  |
| EER                                                                                 | W/W   | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  |
| Max. working current                                                                | A     | 24                                                                                  |         | 28                                                                                  |         | 13                                                                                  |         | 18                                                                                  |         | 21                                                                                  |         |
| Power supply                                                                        | /     | 220 1N~ 50Hz(60Hz)                                                                  |         | 220 1N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         |
| IP code                                                                             | /     | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         |
| Refrigerant                                                                         | /     | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         |
| Compressor QTY                                                                      | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Max. water outlet temperature                                                       | ℃     | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         |
| Water side heat exchanger type                                                      | /     | Titanium tube heat exchanger +PVC shell                                             |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Air side heat exchanger type                                                        | /     | Copper tube fin heat exchanger                                                      |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Circulating waterpipe nozzle                                                        | inch  | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         |
| Water flow                                                                          | m³/h  | 9.03                                                                                |         | 10.32                                                                               |         | 12.04                                                                               |         | 15.05                                                                               |         | 17.20                                                                               |         |
| Air out type                                                                        | /     | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         | Horizontal                                                                          |         |
| Fan QTY                                                                             | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Noise                                                                               | dB(A) | 56                                                                                  |         | 58                                                                                  |         | 59                                                                                  |         | 60                                                                                  |         | 60                                                                                  |         |
| Packing Dimension (W*D*H)                                                           | mm    | 1185×485×710                                                                        |         | 1185×485×710                                                                        |         | 1260×535×810                                                                        |         | 1260×535×810                                                                        |         | 1420×510×910                                                                        |         |
| N.W.                                                                                | kg    | 85                                                                                  |         | 90                                                                                  |         | 100                                                                                 |         | 115                                                                                 |         | 120                                                                                 |         |
| Running weight                                                                      | kg    | 90                                                                                  |         | 95                                                                                  |         | 105                                                                                 |         | 125                                                                                 |         | 130                                                                                 |         |

Remarks:  
1. Test conditions:  
a). <A26>Rated Heating: DB 26°C/Relative humidity 80%, inlet water temperature 26°C, outlet water temperature 28°C.  
b). <A15>Rated Heating: DB 15°C/Relative humidity 70%, inlet water temperature 26°C.  
c). Rated Cooling: DB 35°C, inlet water temperature 29°C.  
2. Due to product improvement, above datas are subject to change without priop notice, please take the rating plate as standard.  
3. This water heat pump system is only suitable for city water that meets the national standard, such as ground water, well water, etc., which is not covered by the warranty. If the water quality is poor, please install a filter and water processor.



# Environmentally friendly refrigerant

To reduce carbon emission to the environment and curb global warming, AIROSD develops R32 air to water heat pump . With many advantages such as low carbon emission and high efficiency, and help achieve the global goal of carbon neutrality.

# Heating & Cooling Swimming Pool Heat Pump

With the development of technology, the refrigerants used in swimming pool heat pumps have been attaching more and more importance to their environmental performance. Many new types of heat pumps have adopted refrigerants with an ozone depletion potential (ODP) of zero and a relatively low global warming potential (GWP), such as R410A and R32, which has further reduced the potential harm to the environment



## 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

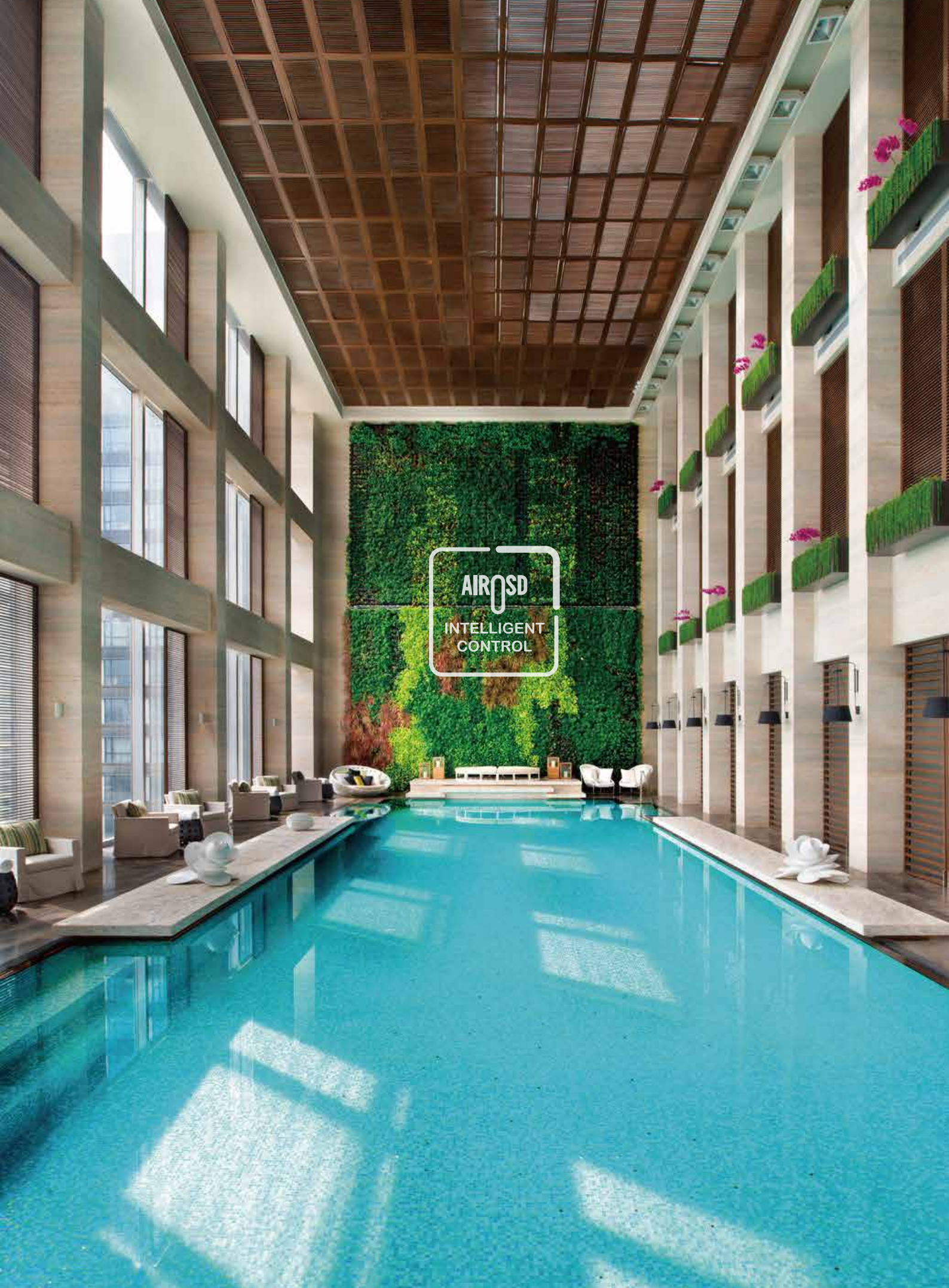


## Anti-secondaryice growth technology

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

|                                                                                      |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
|--------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|---------|
|  |       |  |         |  |         |  |         |  |         |  |         |
| Model                                                                                |       | BKFX-Y-024URII                                                                      |         | BKFX-Y-028URII                                                                      |         | BKFX-Y-036URII                                                                      |         | BKFX-Y-050URII                                                                      |         | BKFX-Y-055URII                                                                      |         |
| Heating mode                                                                         | /     | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         | Circulating                                                                         |         |
| Ambient temp. range                                                                  | ℃     | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         | -15 ~ 45                                                                            |         |
| Heating Capacity at Air 26℃, Humidity 80%, Water 26℃ in, 28℃ out                     |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                               | kW    | 24.00                                                                               | ~ 6.00  | 28.00                                                                               | ~ 7.00  | 36.00                                                                               | ~ 9.00  | 50.00                                                                               | ~ 12.50 | 55.00                                                                               | ~ 13.75 |
| Rated power input                                                                    | kW    | 4.00                                                                                | ~ 0.38  | 4.67                                                                                | ~ 0.44  | 6.00                                                                                | ~ 0.57  | 8.33                                                                                | ~ 0.79  | 9.17                                                                                | ~ 0.87  |
| COP                                                                                  | W/W   | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 | 6.00                                                                                | ~ 15.80 |
| Heating Capacity at Air 15℃, Humidity 70%, Water 26℃ in                              |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated heating capacity                                                               | kW    | 18.24                                                                               | ~ 4.56  | 21.28                                                                               | ~ 5.32  | 27.36                                                                               | ~ 6.84  | 38.00                                                                               | ~ 9.50  | 41.80                                                                               | ~ 10.45 |
| Rated power input                                                                    | kW    | 3.65                                                                                | ~ 0.61  | 4.26                                                                                | ~ 0.71  | 5.47                                                                                | ~ 0.91  | 7.60                                                                                | ~ 1.27  | 8.36                                                                                | ~ 1.39  |
| COP                                                                                  | W/W   | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  | 5.00                                                                                | ~ 7.50  |
| Cooling Capacity at Air 35℃, Water 29℃ in                                            |       |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Rated cooling capacity                                                               | kW    | 13.20                                                                               | ~ 3.30  | 15.40                                                                               | ~ 3.85  | 19.80                                                                               | ~ 4.95  | 27.50                                                                               | ~ 6.88  | 30.25                                                                               | ~ 7.56  |
| Rated input power                                                                    | kW    | 4.13                                                                                | ~ 0.51  | 4.81                                                                                | ~ 0.59  | 6.19                                                                                | ~ 0.76  | 8.59                                                                                | ~ 1.06  | 9.45                                                                                | ~ 1.16  |
| EER                                                                                  | W/W   | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  | 3.20                                                                                | ~ 6.50  |
| Max. working current                                                                 | A     | 12                                                                                  |         | 15                                                                                  |         | 21                                                                                  |         | 25                                                                                  |         | 27                                                                                  |         |
| Power supply                                                                         | /     | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         | 380 3N~ 50Hz(60Hz)                                                                  |         |
| IP code                                                                              | /     | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         | IPX4                                                                                |         |
| Refrigerant                                                                          | /     | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         | R32                                                                                 |         |
| Compressor QTY                                                                       | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Max. water outlet temperature                                                        | ℃     | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         | 40                                                                                  |         |
| Water side heat exchanger type                                                       | /     | Titanium tube heat exchanger +PVC shell                                             |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Air side heat exchanger type                                                         | /     | Copper tube fin heat exchanger                                                      |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |                                                                                     |         |
| Circulating waterpipe nozzle                                                         | inch  | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G1.5" Internal thread                                                               |         | G2" Internal thread                                                                 |         |
| Water flow                                                                           | m³/h  | 10.32                                                                               |         | 12.04                                                                               |         | 15.48                                                                               |         | 21.50                                                                               |         | 23.65                                                                               |         |
| Air out type                                                                         | /     | Vertical                                                                            |         | Vertical                                                                            |         | Vertical                                                                            |         | Vertical                                                                            |         | Vertical                                                                            |         |
| Fan QTY                                                                              | Pic   | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         | 1                                                                                   |         |
| Noise                                                                                | dB(A) | 56                                                                                  |         | 57                                                                                  |         | 65                                                                                  |         | 65                                                                                  |         | 65                                                                                  |         |
| Packing Dimension (W*D*H)                                                            | mm    | 750×690×1070                                                                        |         | 830×793×1084                                                                        |         | 835×835×1405                                                                        |         | 835×835×1405                                                                        |         | 1500×690×1380                                                                       |         |
| N.W.                                                                                 | kg    | 120                                                                                 |         | 130                                                                                 |         | 170                                                                                 |         | 190                                                                                 |         | 200                                                                                 |         |
| Running weight                                                                       | kg    | 130                                                                                 |         | 140                                                                                 |         | 190                                                                                 |         | 220                                                                                 |         | 230                                                                                 |         |

Remarks:  
1. Test conditions:  
a). <A26>Rated Heating: DB 26℃/Relative humidity 80%, inlet water temperature 26℃, outlet water temperature 28℃.  
b). <A15>Rated Heating: DB 15℃/Relative humidity 70%, inlet water temperature 26℃.  
c). Rated Cooling: DB 35℃, inlet water temperature 29℃.  
2. Due to product improvement, above datas are subject to change without priop notice, please take the rating plate as standard.  
3. This water heat pump system is only suitable for city water that meets the national standard, such as ground water, well water, etc., which is not covered by the warranty. If the water quality is poor, please install a filter and water processor.



# Heating & Cooling Swimming Pool Heat Pump

## Features:

### 1.High air flow efficiency

The top air outlet design makes the air flow path of the heat pump simpler, which helps to improve the working efficiency of the heat pump and enhance the heat exchange effect.

### 2.Excellent heat dissipation effect

The top-exhaust heat pump can discharge hot air more evenly, improve the heat dissipation performance of the heat pump, and ensure that the equipment works in an efficient state.

### 3.Prevent dust accumulation and interference from debris

It can be less disturbed by dust, debris or moisture on the ground. Dust on the ground is not easy to enter the air outlet, so it can effectively reduce the performance degradation caused by dirt accumulation during the operation of the heat pump.



|                                                                                      |       |                                                                                     |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |       |  |        |  |  |  |  |
| Model                                                                                |       | BKFX-060URII                                                                        |        | BKFX-065URII                                                                        | BKFX-080URII                                                                        | BKFX-105URII                                                                        | BKFX-240URII                                                                        |
| Heating mode                                                                         | /     | Circulating                                                                         |        | Circulating                                                                         | Circulating                                                                         | Circulating                                                                         | Circulating                                                                         |
| Ambient temp. range                                                                  | ℃     | -15 ~ 45                                                                            |        | -15 ~ 45                                                                            | -15 ~ 45                                                                            | -15 ~ 45                                                                            | -15 ~ 45                                                                            |
| Heating Capacity at Air 26℃, Humidity 80%, Water 26℃ in, 28℃ out                     |       |                                                                                     |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Rated heating capacity                                                               | kW    | 60.0                                                                                | ~ 15.0 | 65.0 ~ 16.3                                                                         | 80.0 ~ 20.0                                                                         | 105.0 ~ 26.3                                                                        | 240.0 ~ 60.0                                                                        |
| Rated power input                                                                    | kW    | 10.00                                                                               | ~ 0.95 | 10.83 ~ 1.03                                                                        | 13.33 ~ 1.27                                                                        | 17.50 ~ 1.66                                                                        | 40.00 ~ 3.80                                                                        |
| COP                                                                                  | W/W   | 6.0                                                                                 | ~ 15.8 | 6.0 ~ 15.8                                                                          | 6.0 ~ 15.8                                                                          | 6.0 ~ 15.8                                                                          | 6.0 ~ 15.8                                                                          |
| Heating Capacity at Air 15℃, Humidity 70%, Water 26℃ in                              |       |                                                                                     |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Rated heating capacity                                                               | kW    | 45.6                                                                                | ~ 11.4 | 49.4 ~ 12.4                                                                         | 60.8 ~ 15.2                                                                         | 79.8 ~ 20.0                                                                         | 182.4 ~ 45.6                                                                        |
| Rated power input                                                                    | kW    | 9.12                                                                                | ~ 1.52 | 9.88 ~ 1.65                                                                         | 12.16 ~ 2.03                                                                        | 15.96 ~ 2.66                                                                        | 36.48 ~ 6.08                                                                        |
| COP                                                                                  | W/W   | 5.0                                                                                 | ~ 7.5  | 5.0 ~ 7.5                                                                           | 5.0 ~ 7.5                                                                           | 5.0 ~ 7.5                                                                           | 5.0 ~ 7.5                                                                           |
| Cooling Capacity at Air 35℃, Water 29℃ in                                            |       |                                                                                     |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Rated cooling capacity                                                               | kW    | 33.0                                                                                | ~ 8.3  | 35.8 ~ 8.9                                                                          | 44.0 ~ 11.0                                                                         | 57.8 ~ 14.4                                                                         | 132.0 ~ 33.0                                                                        |
| Rated input power                                                                    | kW    | 10.31                                                                               | ~ 1.27 | 11.17 ~ 1.38                                                                        | 13.75 ~ 1.69                                                                        | 18.05 ~ 2.22                                                                        | 41.25 ~ 5.08                                                                        |
| EER                                                                                  | W/W   | 3.2                                                                                 | ~ 6.5  | 3.2 ~ 6.5                                                                           | 3.2 ~ 6.5                                                                           | 3.2 ~ 6.5                                                                           | 3.2 ~ 6.5                                                                           |
| Max. working current                                                                 | A     | 30                                                                                  |        | 32                                                                                  | 50                                                                                  | 65                                                                                  | 120                                                                                 |
| Power supply                                                                         | /     | 380 3N~ 50Hz(60Hz)                                                                  |        | 220 1N~ 50Hz(60Hz)                                                                  | 380 3N~ 50Hz(60Hz)                                                                  | 380 3N~ 50Hz(60Hz)                                                                  | 380 3N~ 50Hz(60Hz)                                                                  |
| IP code                                                                              | /     | IPX4                                                                                |        | IPX4                                                                                | IPX4                                                                                | IPX4                                                                                | IPX4                                                                                |
| Refrigerant                                                                          | /     | R32                                                                                 |        | R32                                                                                 | R32                                                                                 | R32                                                                                 | R32                                                                                 |
| Compressor QTY                                                                       | Pic   | 1                                                                                   |        | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Max. water outlet temperature                                                        | ℃     | 40                                                                                  |        | 40                                                                                  | 40                                                                                  | 40                                                                                  | 40                                                                                  |
| Water side heat exchanger type                                                       | /     | Titanium tube heat exchanger + PVC shell                                            |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Air side heat exchanger type                                                         | /     |                                                                                     |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Circulating waterpipe nozzle                                                         | inch  | G1.5" Internal thread                                                               |        | G2" Internal thread                                                                 | 4" Flange                                                                           | 4" Flange                                                                           | 4" Flange                                                                           |
| Water flow                                                                           | m³/h  | 25.80                                                                               |        | 27.94                                                                               | 34.39                                                                               | 45.14                                                                               | 103.18                                                                              |
| Air out type                                                                         | /     | Vertical                                                                            |        | Vertical                                                                            | Vertical                                                                            | Vertical                                                                            | Vertical                                                                            |
| Fan QTY                                                                              | Pic   | 1                                                                                   |        | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Noise                                                                                | dB(A) | 68                                                                                  |        | 66                                                                                  | 72                                                                                  | 72                                                                                  | 75                                                                                  |
| Packing Dimension (W*D*H)                                                            | mm    | 905×905×1535                                                                        |        | 1500×690×1380                                                                       | 2020×990×1950                                                                       | 2020×990×1950                                                                       | 2280×1230×2400                                                                      |
| N.W.                                                                                 | kg    | 210                                                                                 |        | 210                                                                                 | 450                                                                                 | 500                                                                                 | 760                                                                                 |
| Running weight                                                                       | kg    | 240                                                                                 |        | 240                                                                                 | 500                                                                                 | 550                                                                                 | 810                                                                                 |

Remarks:  
1. Test conditions:  
a). <A26>Rated Heating: DB 26°C/Relative humidity 80%, inlet water temperature 26°C, outlet water temperature 28°C.  
b). <A15>Rated Heating: DB 15°C/Relative humidity 70%, inlet water temperature 26°C.  
c). Rated Cooling: DB 35°C, inlet water temperature 29°C.  
2. Due to product improvement, above datas are subject to change without priop notice, please take the rating plate as standard.  
3. This water heat pump system is only suitable for city water that meets the national standard, such as ground water, well water, etc., which is not covered by the warranty. If the water quality is poor, please install a filter and water processor.



# Cooling Only Swimming Pool Heat Pump



Intelligent cream



Modules are multi-linked



Smart backwater



Extended warranty

# Inverter Single Cooling Swimming Pool Heat Pump

- Features:
- 1.PVC Titanium heat exchanger with full resistance against corrosion, moredurable.
  - 2.Compact structure, easy demountable for access
  - 3.High efficiency compressor, saving energy.
  - 4.Flow switch for water flow protection.
  - 5.Intelligent controller and adjustment by quick mind microprocessor.
  - 6.Intelligent LCD display wired controller.
  - 7.Air exchanger (fins-coil )with hydrophilic coating
  - 8Automatic defrosting function included.

|                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| Mode                                                                                 | BKFX-008SRI                                                                          | BKFX-015URI                                                                          | BKFX-020URI                                                                          | BKFX-025URII                                                                         | BKFX-030URII                                                                         |
| Power supply                                                                         | 220V 1N~ 50Hz                                                                        | 220V 1N~ 50Hz                                                                        | 380V 3N~ 50Hz                                                                        | 380V 3N~ 50Hz                                                                        | 380V 3N~ 50Hz                                                                        |
| Rated cooling capacity                                                               | 8.0kW                                                                                | 15.0kW                                                                               | 20.0kW                                                                               | 25.0kW                                                                               | 30.0kW                                                                               |
| Rated cooling input power                                                            | 2.67kW                                                                               | 5.00kW                                                                               | 6.67kW                                                                               | 8.33kW                                                                               | 10.00kW                                                                              |
| Refrigerant weight                                                                   | R32/750g                                                                             | R32/2800g                                                                            | R32/3200g                                                                            | R32/4000g                                                                            | R32/4500g                                                                            |
| Max refrigerant pressure                                                             | 4.2MPa                                                                               | 4.2MPa                                                                               | 4.2MPa                                                                               | 4.2MPa                                                                               | 4.2MPa                                                                               |
| Max. input current                                                                   | 17A                                                                                  | 32A                                                                                  | 18A                                                                                  | 23A                                                                                  | 28A                                                                                  |
| Circulating water flow                                                               | 3.4m3/h                                                                              | 6.4m3/h                                                                              | 8.6m3/h                                                                              | 10.7m3/h                                                                             | 12.9m3/h                                                                             |
| Water side pressure loss                                                             | ≤50kPa                                                                               | ≤50kPa                                                                               | ≤50kPa                                                                               | ≤50kPa                                                                               | ≤50kPa                                                                               |
| Water connection                                                                     | G1.5" Internal thread                                                                | G1.5"Internal thread                                                                 | G2" Internal thread                                                                  | G2" Internal thread                                                                  | G2" Internal thread                                                                  |
| Noise                                                                                | 56dB(A)                                                                              | 56dB(A)                                                                              | 56dB(A)                                                                              | 56dB(A)                                                                              | 56dB(A)                                                                              |
| Protection grade                                                                     | IPX4                                                                                 | IPX4                                                                                 | IPX4                                                                                 | IPX4                                                                                 | IPX4                                                                                 |
| Net weight                                                                           | 75kg                                                                                 | 129kg                                                                                | 140kg                                                                                | 180kg                                                                                | 218kg                                                                                |
| Unit size(mm)                                                                        | 1142*435*710                                                                         | 830*793*1084                                                                         | 830*793*1084                                                                         | 835*835*1405                                                                         | 905*905*1535                                                                         |

Test conditions:  
Rated Cooling:DB 35°C,initial water temperature 25°C,final water temperature 10°C.Due to product improvement, above datas are subject to change without priop notice, please take the rating plate as standard.This water heat pump system is only suitable for city water that mets the national standard, such as ground water, well water,etc., which is not coveredby the warranty, If the water quality is poor, please install a filter and water processor.



# Swimming Pool heat pump

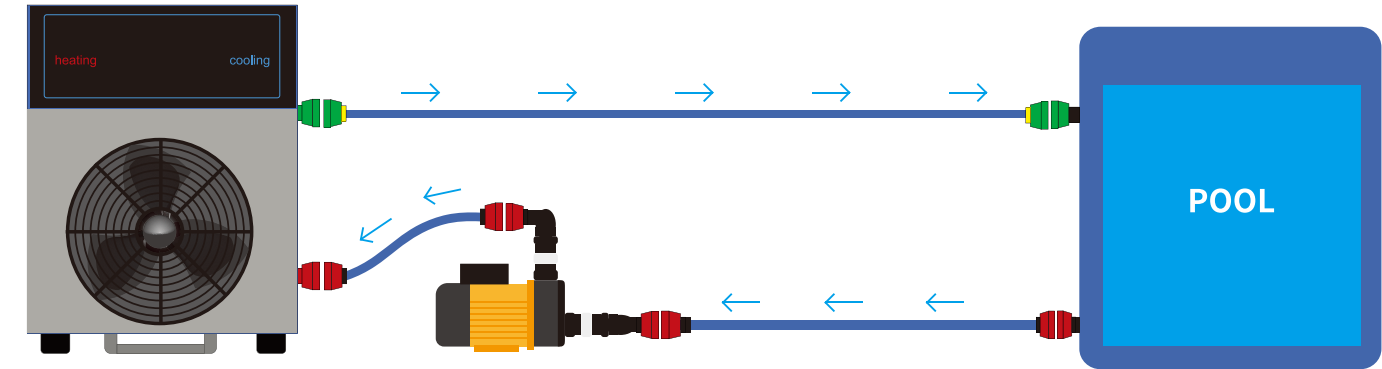
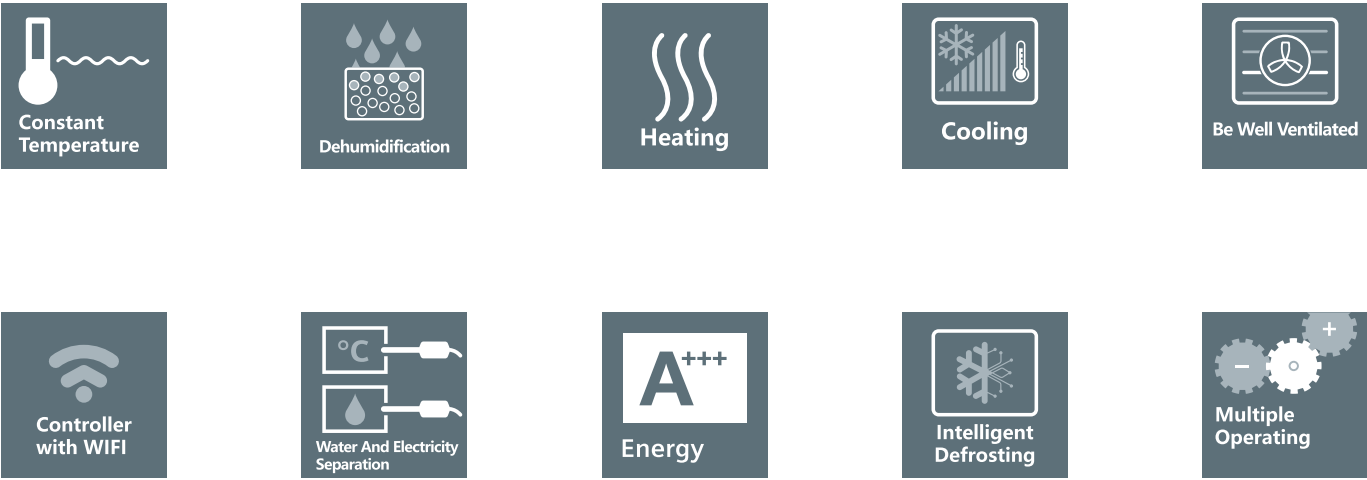
The swimming pool heat pump adopts an internationally renowned brand compressor and a patented technology high-efficiency casing, which makes the cooling and heating more powerful



## Heating type pool heat pump

|                                |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>R410A</b>                   |  |  |  |
| <b>Modle</b>                   | <b>KFGY-003SMI</b>                                                                  | <b>KFGY-005SMI</b>                                                                  | <b>BKFGY-016SMI</b>                                                                 |
| Power supply                   | 110V/1N~/60Hz                                                                       | 110V/1N~/60Hz                                                                       | 220V/1N~                                                                            |
| Rated heating capacity         | 3.45kW                                                                              | 5.6kW                                                                               | 16kw                                                                                |
| Rated heating input power      | 0.77kW                                                                              | 1.12kW                                                                              | 3.2kw                                                                               |
| Max. input current             | 10A                                                                                 | 13A                                                                                 | 18A                                                                                 |
| Refrigerant weight(R410A)      | R410A                                                                               | R410A                                                                               | R410A                                                                               |
| Max. water side pressure       | 0.5MPa                                                                              | 0.5MPa                                                                              | 0.5MPa                                                                              |
| Max. refrigerant pressure      | 4.2MPa                                                                              | 4.2MPa                                                                              | 4.2MPa                                                                              |
| Circulating heating water flow | 1.5m3/h                                                                             | 2.4m3/h                                                                             | 6.9m3/h                                                                             |
| Water side pressure loss       | ≤12kPa                                                                              | ≤12kPa                                                                              | ≤20kPa                                                                              |
| Protection grade               | IPX4                                                                                | IPX4                                                                                | IPX4                                                                                |
| Noise                          | 55dB(A)                                                                             | 49dB(A)                                                                             | 54dB(A)                                                                             |
| Net weight                     | 26kg                                                                                | 38kg                                                                                | 68kg                                                                                |

Note:  
Nominal heating conditions: Ambient dry bulb temperature 26°C / relative humidity 70%, pool inlet water temperature 26°C / outlet water temperature 28°C.





## Ice bath machine

An ice bath cooler is a device used to cool and maintain a constant low temperature in a water bath and can be used for cold water immersion therapy. It uses a compressor and coil system to quickly extract heat from the water, bringing the temperature down to 35-55 degrees Fahrenheit. The main benefits of using an ice bath cooler over a traditional ice bath are convenience, consistent water temperature, cost savings without the need to buy ice, the ability to customize different containers, and ease of use at home.



### Self diagnosis

The fault self-diagnosis function allows customers to understand the equipment at any time.



### Silent design

The fan blades have 5 pitches to reduce resonance noise and improve air flow efficiency.



### Automatic protection

The compressor automatically protects, making the heart of the dehumidifier stronger.



### Timing settings

24-hour power on and off time can be set.



### Intelligent defrost

Automatic frost, 5 degrees to 38 degrees, ultra-wide temperature use.



### Protect the circuit

In case of abnormal voltage or lightning, it can effectively protect the dehumidifier.



### Precise control

Intelligent and precise control, the humidity is adjustable by 1%, and the hysteresis value is plus or minus 3%.



### Rotary compressor

Low vibration, low noise, cooling and heating, outstanding effect.

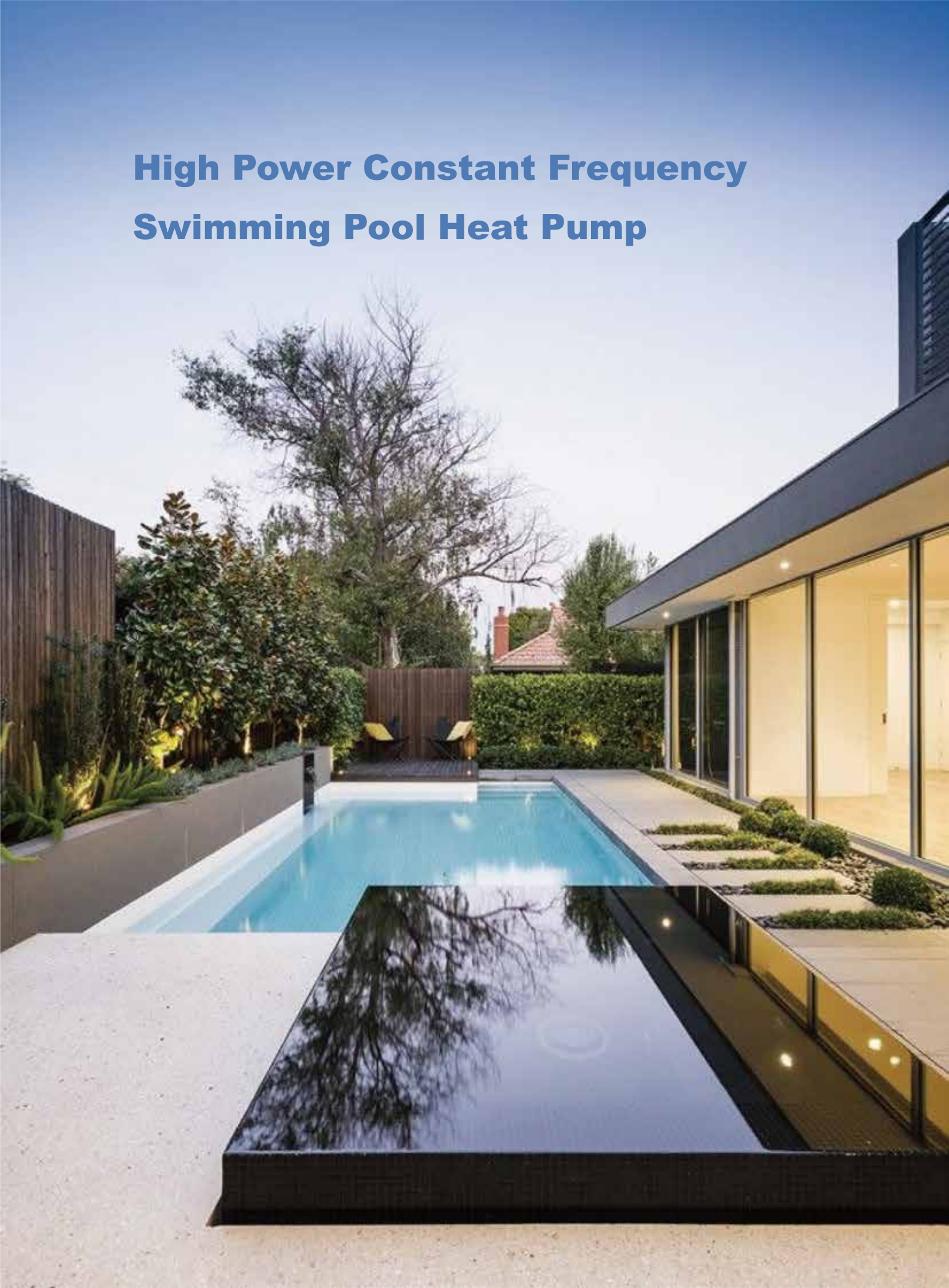
|                                |                    |                    |                     |
|--------------------------------|--------------------|--------------------|---------------------|
| <b>R410A</b>                   |                    |                    |                     |
| <b>Modle</b>                   | <b>KFXY-003SMI</b> | <b>KFXY-003SMI</b> | <b>KFXYC-007UMI</b> |
| Power supply                   | 110V/1N~/60Hz      | 220V/1N~/50Hz      | 220V/1N~/60Hz       |
| Rated cooling capacity         | 3.0kW              | 3.0kW              | 7.0kW               |
| Rated cooling input power      | 1.0kW              | 1.0kW              | 2.40kW              |
| Max. input current             | 12A                | 16A                | 17A                 |
| Refrigerant weight(R410A)      | R410A              | R410A              | R410A               |
| Max. water side pressure       | 0.5MPa             | 0.5MPa             | 0.5MPa              |
| Max. refrigerant pressure      | 4.2MPa             | 4.2MPa             | 4.2MPa              |
| Circulating cooling water flow | 1.3m³/h            | 1.3m³/h            | 2.8m³/h             |
| Water side pressure loss       | ≤20kPa             | ≤20kPa             | ≤30kPa              |
| Protection grade               | IPX4               | IPX4               | IPX4                |
| Noise                          | 53dB(A)            | 53dB(A)            | 58dB(A)             |
| Net weight                     | 33kg               | 33kg               | 50kg                |

Note:

1. Test conditions:

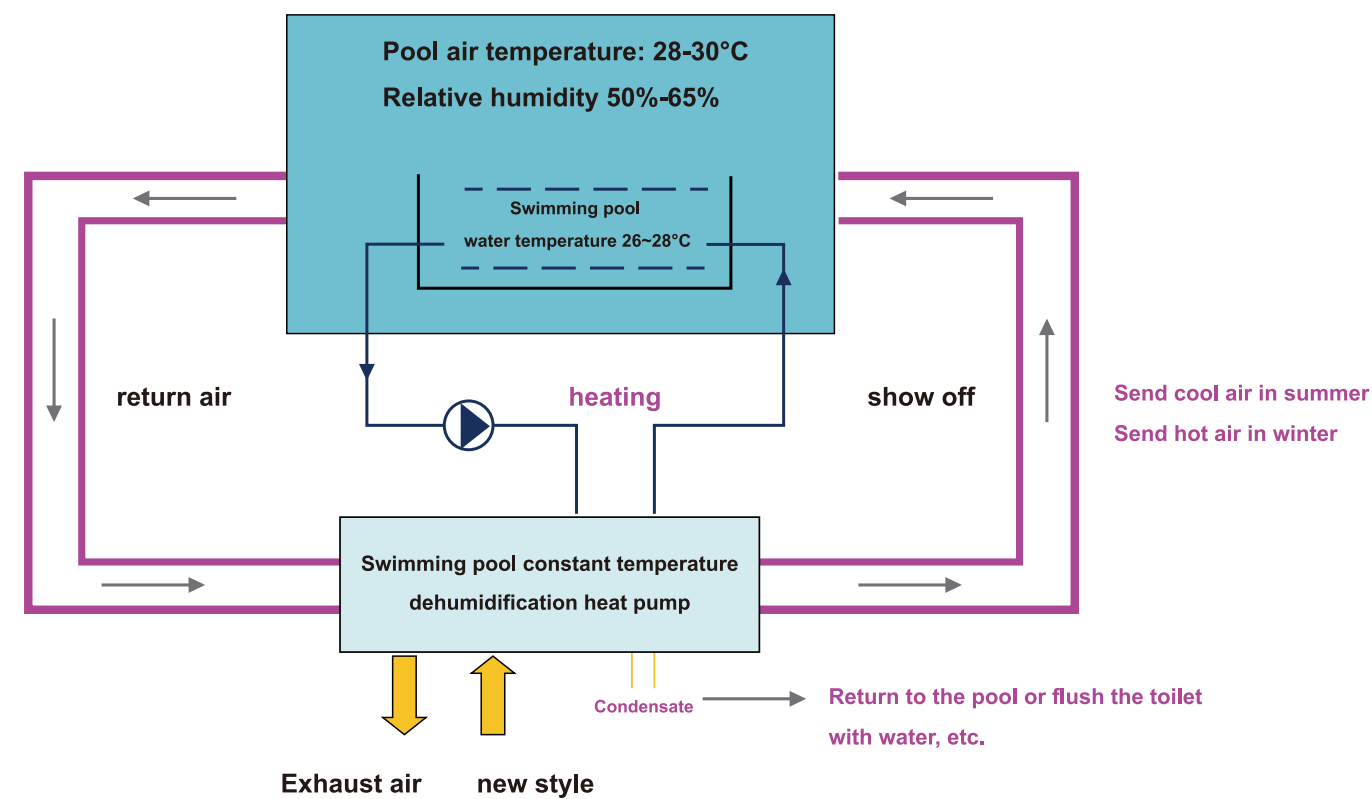
a). Rated Heating: DB 26°C/Relative humidity 70%, inlet water temperature 26°C, outlet water temperature 28°C.

b). Rated Cooling: DB 35°C,initial water temperature 25°C, final water temperature 10°C.



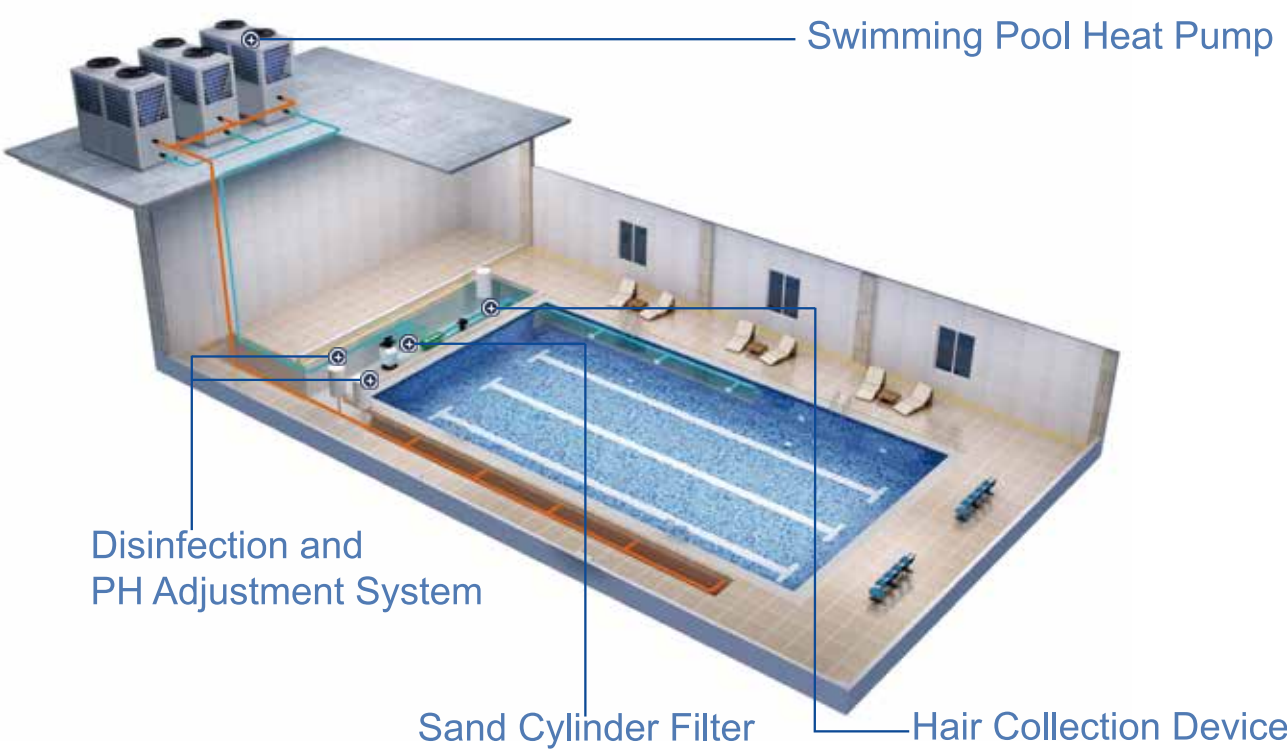
High Power Constant Frequency  
Swimming Pool Heat Pump

High Power Inverter Swimming Pool Heat Pump



|                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
|                                                                                       | <b>Modle</b>                                                                          | <b>KFX-010UMI</b>                                                                     | <b>BKFX-025UMI</b>                                                                    | <b>KFX-025UMII</b>                                                                    |
| Power supply                                                                          | 220V/1N~/50Hz                                                                         | 220V/1N~/50Hz                                                                         | 380V/3N~/60Hz                                                                         | 380V/3N~/60Hz                                                                         |
| Rated heating capacity                                                                | 9.5kW                                                                                 | 25kW                                                                                  | 25kW                                                                                  | 35kW                                                                                  |
| Rated heating input power                                                             | 1.98kW                                                                                | 4.80kW                                                                                | 5.00kW                                                                                | 7.00kW                                                                                |
| Rated cooling capacity                                                                | 6.5kW                                                                                 | 16kW                                                                                  | 16kW                                                                                  | 23kW                                                                                  |
| Rated cooling input power                                                             | 2.40kW                                                                                | 5.30kW                                                                                | 5.90kW                                                                                | 8.50kW                                                                                |
| Max. input current                                                                    | 17A                                                                                   | 32A                                                                                   | 16A                                                                                   | 23A                                                                                   |
| Refrigerant                                                                           | R410A                                                                                 | R410A                                                                                 | R410A                                                                                 | R410A                                                                                 |
| Max. water side pressure                                                              | 0.5MPa                                                                                | 0.5MPa                                                                                | 0.5MPa                                                                                | 0.5MPa                                                                                |
| Max. refrigerant pressure                                                             | 4.2MPa                                                                                | 4.2MPa                                                                                | 4.2MPa                                                                                | 4.2MPa                                                                                |
| Circulating cooling water flow                                                        | 4.1m³/h                                                                               | 10.7m³/h                                                                              | 10.7m³/h                                                                              | 15m³/h                                                                                |
| Water side pressure loss                                                              | ≤30kPa                                                                                | ≤40kPa                                                                                | ≤40kPa                                                                                | ≤40kPa                                                                                |
| Protection grade                                                                      | IPX4                                                                                  | IPX4                                                                                  | IPX4                                                                                  | IPX4                                                                                  |
| Noise                                                                                 | 58dB(A)                                                                               | 63dB(A)                                                                               | 63dB(A)                                                                               | 64dB(A)                                                                               |
| Net weight                                                                            | 57kg                                                                                  | 115kg                                                                                 | 110kg                                                                                 | 125kg                                                                                 |

The cooling conditions are as follows: ambient dry bulb temperature is 35°C, with the initial pool water temperature at 25°C and the final water temperature at 7°C.



Galvanized metal cabinet or stainless steel cabinet.

R410a, R22, R407c refrigerant is available.

Titanium Tube Heat Exchanger / Stainless Steel HeatExchanger.

|                                |        |                                                                                       |                                                                                       |
|--------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>R410A</b>                   |        |  |  |
| <b>Modle</b>                   |        | <b>BKFX-240UMII</b>                                                                   | <b>KFX-240VMII</b>                                                                    |
| Power supply                   | /      | 380V/3N~/50Hz                                                                         | 415V 3N ~ 50Hz                                                                        |
| Ambient temperatrue            |        | -7 ~ +43                                                                              | -7 ~ +43                                                                              |
| Rated heating capacity         | kW     | 240.0                                                                                 | 240.0                                                                                 |
| Rated heating input power      | kW     | 48.0                                                                                  | 48.0/5.0                                                                              |
| Rated cooling capacity         | kW     | 145                                                                                   | 165.0                                                                                 |
| Rated cooling input power      | kW     | 52                                                                                    | 52                                                                                    |
| Max input current              | A      | 120                                                                                   | 150                                                                                   |
| Refrigerant                    | /      | R410A                                                                                 | R410A                                                                                 |
| Rated/Max outlet water temp.   | °C     | 28/40                                                                                 | 28/40                                                                                 |
| Rated ciculating water flow    | m³/h   | 103                                                                                   | 103.2                                                                                 |
| Max refrigerant pressure       | MPa    | 4.5                                                                                   | 4.5                                                                                   |
| Water side pressure loss       | kPa    | 50                                                                                    | ≤70                                                                                   |
| Noise                          | dB (A) | 75                                                                                    | 72                                                                                    |
| Anti-electric protection class | /      | I class                                                                               | I class                                                                               |
| IP code                        | /      | IP X 4                                                                                | IP X 4                                                                                |
| N.W.                           | kg     | 760                                                                                   | 1200                                                                                  |

Test conditions:  
Rated heating conditions: ambient dry bulb temperature 20°C, wet bulb temperature 15°C; inlet/outlet water temperature 26/28°C.  
Rated refrigeration working conditions: ambient dry bulb temperature 35°C; inlet water temperature 32°C.  
If product specifications change due to improvements, the nameplate parameters shall prevail.



# Inverter Swimming Pool Heat Pump

This R290 DC Inverter Swimming Pool Heat Pump offers efficient performance in a wide temperature range of -25°C to 43°C. With its eco-friendly R290 refrigerant, circulating heating mode, and adjustable water outlet temperature up to 70°C, it ensures optimal heating for various needs. The DC inverter technology further enhances energy efficiency and reduces noise, making it an ideal choice for both residential and commercial pools.

|                              |        |                                                                                     |
|------------------------------|--------|-------------------------------------------------------------------------------------|
| R290                         |        |  |
| Model                        |        | BKFX-014SBI                                                                         |
| Heating Mode                 | /      | Circulating                                                                         |
| Ambient Temp. Range          | °C     | -25 ~ 43                                                                            |
| Max. Water Outlet Temp.      | °C     | 40/70                                                                               |
| Heating Capacity / COP       |        |                                                                                     |
| A10W28                       | KW     | 9.0 / 3.6                                                                           |
| A15W28                       | KW     | 10.5/4.2                                                                            |
| A24W28                       | KW     | 13.0/5.2                                                                            |
| A27W28                       | KW     | 14.0 / 5.5                                                                          |
| Cooling Capacity / EER       |        |                                                                                     |
| A35W26                       | KW     | 10.0 / 3.6                                                                          |
| A35W7                        | KW     | 8.5 / 3.0                                                                           |
| A43W26                       | KW     | 9.0 / 2.9                                                                           |
| A43W7                        | KW     | 8.0 / 2.5                                                                           |
| Power Supply                 |        |                                                                                     |
| Power Supply                 | V / Hz | 220 1N~ 50Hz                                                                        |
| Max. Running Current         | A      | 26                                                                                  |
| IP code                      | /      | IPX4                                                                                |
| Components                   |        |                                                                                     |
| Compressor                   | /      | Panasonic                                                                           |
| Refrigerant                  | /      | R290                                                                                |
| Fan                          | /      | Sige                                                                                |
| Heat Exchanger (Water)       | /      | Titanium Tube Heat Exchanger, PVC Shell                                             |
| Heat Exchanger (Air)         | /      | Copper Tube Fin Heat Exchanger                                                      |
| Circulating Waterpipe Nozzle | inch   | G1.5" Internal Thread                                                               |
| Water Flow                   | m³/h   | 2.75                                                                                |
| Noise                        | dB(A)  | ≤52                                                                                 |
| Packing Dimension (W*D*H)    | mm     | 1100*485*710                                                                        |
| Weight Exclude Cover         | kg     | 55                                                                                  |
| N.W.                         | kg     | 85                                                                                  |

Test conditions:  
Rated heating conditions: ambient dry bulb temperature 20°C, wet bulb temperature 15°C; inlet/outlet water temperature 26/28°C.  
Rated refrigeration working conditions: ambient dry bulb temperature 35°C; inlet water temperature 32°C.

# High-temperature pool heat pump

With its energy-saving, environmentally friendly, wide range of applications and high efficiency and reliability, high-temperature heat pumps have become an important heat supply equipment in modern industrial and commercial applications.



## High-temperature pool heat pump



Leakage Protection



Overcurrent Protection



Power off Memory Protection



Power Supply Phase Loss Protection



Overcooling Protection



Evaporator Anti-freeze Protection



Router Overheat Protection



Transformer High and Low Voltage Protection



Processor Latency Protection



Buffer Anti-liquid Shock Protection



Water Shortage Protection



Outlet Water Temperature Overheat Protection

|                                     |                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------|
| <b>R134A</b>                        |  |
| <b>Modle</b>                        | <b>KFXYG-035UAll</b>                                                                  |
| Power supply                        | 380V/3N~/60Hz                                                                         |
| Rated heating capacity              | 35kW                                                                                  |
| Rated heating input power           | 5.8kW                                                                                 |
| Rated cooling capacity              | 16.5kW                                                                                |
| Rated cooling input power           | 4.2kW                                                                                 |
| Max. input current                  | 30A                                                                                   |
| Refrigerant weight                  | R134A/7500g                                                                           |
| Max. water side pressure            | 0.5MPa                                                                                |
| Max. refrigerant pressure           | 3.0MPa                                                                                |
| Rated/Max. outlet water temperature | 28/75°C                                                                               |
| Circulating heating water flow      | 15.0m3/h                                                                              |
| Water side pressure loss            | ≤50kPa                                                                                |
| Protection grade                    | IPX4                                                                                  |
| Noise                               | 66dB(A)                                                                               |
| Net weight                          | 213kg                                                                                 |



Note:  
Nominal heating conditions: Ambient dry bulb temperature 26°C / relative humidity 70%, pool inlet water temperature 26°C / outlet water temperature 28°C. Nominal cooling conditions: Ambient dry bulb temperature 35°C, pool inlet water temperature 28°C / outlet water temperature 26°C.