



INDEX

| | | |
|----------|---------------------------------------|--------------|
| 1 | Our Timeline | 3 |
| 2 | About Honny | 4 |
| 3 | Air Source Heat Pump | 5-6 |
| | a. Heat Pump Water Heater | 7-10 |
| | Product Features | |
| | Specifications | |
| | Configuration & Functions | |
| | b. Pool Heat Pump Water Heater | 11-13 |
| | Product Features | |
| | Specifications | |
| | Configuration & Functions | |
| | c. Commercial Heat Pump | 14-17 |
| | Product Features | |
| | Specifications | |
| | Configuration & Functions | |
| | d. Three In One Heat Pump | 18-21 |
| | Product Features | |
| | Specifications | |
| | Configuration & Functions | |
| 4 | Get In Touch With Us | 22 |



OUR TIMELINE

- 2009
 - **AUG** : Pioneered China's first heat pump hot water unit in collaboration with Shanghai Hitachi, featuring a dedicated compressor
 - **SEP** : Manufactured specialized hot water compressors with cutting-edge heat pump technology in the past
Entered into a comprehensive strategic cooperation contract with AFIS Company, South Korea
Successfully achieved national CCC certification for household series products
Secured certification from the Korea Refrigeration and Air Conditioning Association, marking the successful entry of advanced products into the Korean market
 - **OCT** : Obtained national CCC certification for the light commercial series products
The product performance in the comprehensive laboratory successfully passed the testing and certification conducted by Hefei General Institute
Took part in the Bangkok RHV International Air Conditioning and Refrigeration Exhibition
 - **NOV** : Successfully achieved EU CE certification for household series products
 - **DEC** : Obtained EU CE certification for the light commercial series products

- 2010
 - **JAN** : Secured the patent certificate for the new heat pump water heater with the patent number ZL 2009200639575
Initiated factory inspection for products entering the French market through collaboration with the French FCD company
Successfully launched products, fully penetrating the domestic market
 - **FEB** : Successfully passed the EU 14511 testing and certification for light commercial series products.
 - **MAR** : Participated in the 2010 International HVAC and Refrigeration Exhibition in Milan, Italy (MCE) with the PUN-200, marking the full entry of the product into the European market
 - **MAY** : The commercial unit secured the 'National Industrial Product Production License' certificate
 - **JUNE** : Commenced mass production of the low-temperature injection heat pump unit
 - **SEPT** : Simultaneously launched the new generation of heat pump three-in-one units worldwide

- 2011
 - **JAN** : Initiated mass production of the low-temperature injection heat pump three-in-one unit, with exports reaching Russia

- 2012
 - **JAN** : The special heating unit of Hanging heat pump was successfully launched
 - **JULY** : Hangzhou's 'heat pump three-in-one' unit secured national patent certification
 - **AUG** : Hanging heat pump products secured a successful bid for a series of residential projects in Yunnan High-tech Development Zonett

- 2014
 - : Hanning Company successfully completed the second factory audit conducted by the Korea Refrigeration Association

- 2015
 - : Hangzhou's 'coal-to-electricity' series products entered mass production.

- 2016
 - : Hanning Company successfully completed its third factory audit conducted by the Korea Refrigeration Association.

- 2017
 - **JUNE** : Hanging Environmental Technology Co., Ltd. was established, with a dedicated commitment to enhancing the living environment as its core responsibility.
 - **JULY** : Hanning Company and China Potevio Co., Ltd.'s strategic cooperation with Hangzhou Hongyan Company marked the initiation of a period of rapid development for the company.

ABOUT HONNY

Honny Heat Pump Manufacturing is a leading and innovative company specializing in the design, development, and production of advanced heat pump systems for residential, commercial, and industrial applications. With a commitment to sustainability and energy efficiency, Honny Heat Pump Manufacturing has established itself as a trusted provider of cutting-edge heat pump solutions that contribute to a greener and more environment friendly future.

PRODUCT SERIES

As a leader in heat pump technology, HONNY is dedicated to continuous innovation in the field of heat pump technology.

It continues to introduce **household heat pump water heaters, commercial heat pump water units, air-cooled heat pump cold (hot) water central air conditioning units, and specialized solutions for seafood.**

Building upon the foundation of our units, we have pioneered the industry by developing specialized heat pump hot water units for **swimming pools and solar heat pump hot water units.** Additionally, we are the **first in the industry to introduce floor heating technology.**

We specialize in high-end, energy-saving, and environment friendly products, including the heat pump hot water special unit, heat pump three-in-one unit, and ultra-low temperature heat pump unit. Our products showcase exquisite technology and innovation.

Honny's products, characterized by professional manufacturing and high-end quality, have garnered unanimous praise and wide acclaim from users worldwide.

QUALIFICATIONS AND HONORS

HONNY adheres to a comprehensive quality management system, having successfully obtained **ISO9001** quality management system certification and **CE** certification.

HONNY holds a range of certifications, including **CCC** certification, **production license** certification, China heat pump demonstration base certificate, and numerous other accolades, highlighting our commitment to quality and excellence.



INFRASTRUCTURE & CAPABILITIES

The company leverages strong **research and development (R&D)** and **design capabilities.** All projects undergo three-dimensional simulation design, ensuring comprehensive development of both the main products and their associated components.

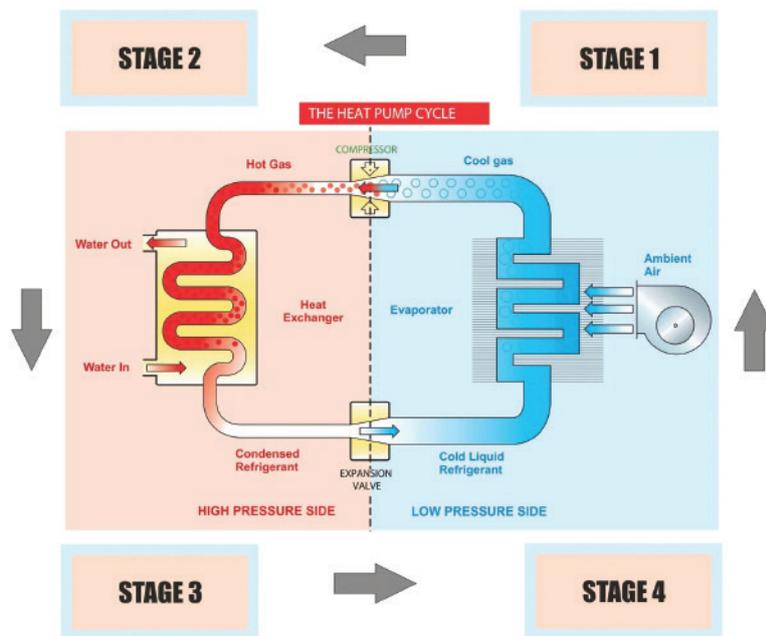
The company emphasizes both speed and development quality, aiming for swift progress without compromising on the quality of the outcomes.

- + The establishment of the first-class national comprehensive performance laboratory in China, featuring a temperature control range from -20 to 43°C
- + High-precision heat exchanger complete production line
- + High-speed punch (fin heat exchanger processing)
- + Turret punch (to achieve sheet metal self-made)
- + Sheet metal hydraulic punching press
- + Automatic copper pipe straightening and bending machine
- + Long U bender
- + Automatic vertical pipe expander
- + Fully automatic welding production line
- + CNC bending machine

AIR SOURCE HEAT PUMP

WORKING PRINCIPLE

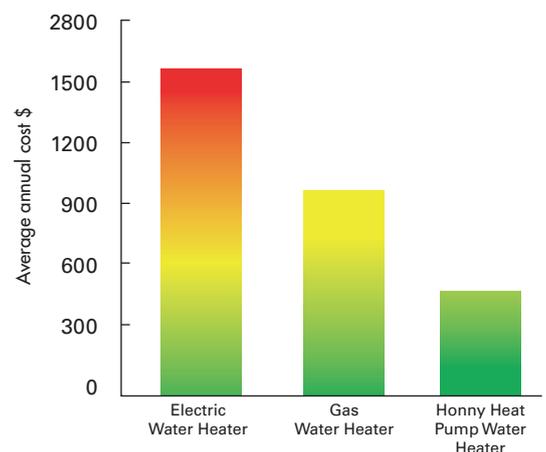
The air source heat pump unit operates according to the principles of the Reverse Carnot Cycle. By utilizing a small amount of electricity, it leverages the ability of refrigerant to absorb a substantial amount of heat from the surrounding air at low temperatures and pressures, causing it to vaporize. Subsequently, this vaporized refrigerant is compressed by a compressor, elevating it to a state of high temperature and pressure.



This high energy gas is then directed into a water heating exchanger, where it transfers its heat to water, effectively producing hot water. Finally, the pressure is released via an expansionator valve, enabling the cycle to continue in a seamless loop, ensuring a continuous supply of hot water.

The heat pump water heater, built upon these principles, represents a novel and highly efficient water heating solution. It boasts exceptional energy efficiency, substantial energy savings, and an environment friendly profile. Notably, the technology ensures safety as well. This innovative approach to water heating aligns with a sustainable and eco-conscious ethos, position it as a viable alternative to conventional water heating methods.

| | Electric Water Heater | Gas Water Heater | HONNY Heat Pump Water Heater |
|----------------------------------|-----------------------|--------------------|------------------------------|
| Energy supply | Electricity | Natural gas | Electricity |
| Energy calorific value | 860kcal/kwh | 9000kcal/m | 860kcal/kwh |
| Average efficiency | 95% | 85% | 400% |
| Average daily energy consumption | 49kwh | 5.23m ³ | 11.6kwh |
| Energy prices | \$0.085 | \$0.48 | \$0.085 |
| Average daily cost | \$4.17 | \$2.51 | \$0.99 |
| Average annual cost | \$1519.60 | \$917.81 | \$360.91 |



HEAT PUMP WATER HEATER

Water Heating Exchanger

Using coaxial tube in tube heat exchanger. Several spiral flute corrugated structure, eddy current and concave turbulent flow scouring, with the descaling ability: Ensure tube clean at the same time, reduce dirt, so the heat exchange efficiency, stable performance. *Also available in shell in tube heat exchanger

PCB box

Intelligent control procedures, automatic control unit operation.

Water pump

- Shielding pump, low noise. table running.
- Anti-scaling treatment, long life.

Evaporator

Finned tube evaporator using hydrophilic aluminium fin and internal thread copper pipe, ensure sufficient absorb heat from the air.

Fan

- Low noise axial flow fan, low consumption, high efficiency.
- Two speed, improve the unit running under high ambient temperature.

Compressor

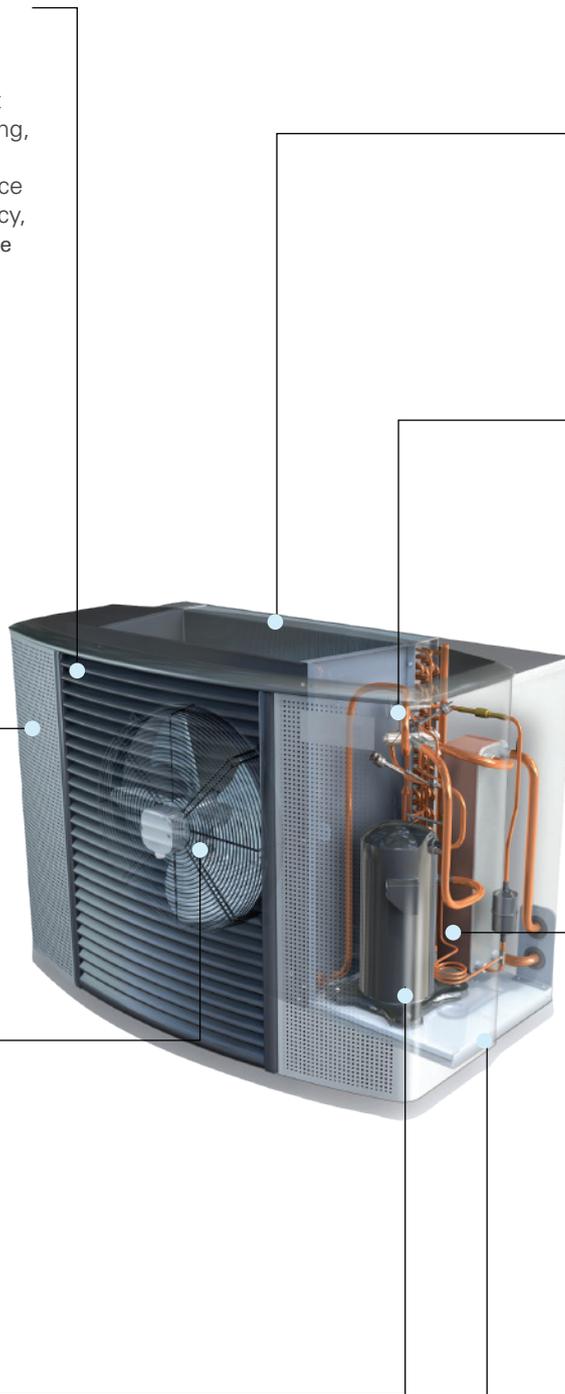
Compressor is the heart of the heat pump water heater. and its quality determines the reliability of the unit. This compressor is specially designed for heat pump water heater, its unique design to ensure the unit can run reliably throughout the year, and for making high temperature hot water.

Throttle device

Using thermal expansion valve throttling control, according to the different ambient temperature and water temperature, effectively regulate the flow of refrigerant, so the unit is always running in the best running status.

Galvanized Steel Plate

As applicable to the outdoor environment, use high quality galvanized steel and special powder coating, windproof, rainproof and UV protection.



HEAT PUMP WATER HEATER

PRODUCT FEATURES

- + The system offers a broad and adaptable range of uses, encompassing sanitary hot water, floor heating, and swimming pool heating.
- + High-temperature T3 compressor.
- + Eco-friendly refrigerant: R407C.
- + Two speed fan motor which further improves unit operation under high ambient temp.
- + Electronic expansion valve regulates the flow of refrigerant precisely.
- + Heat-exchanger cycle technology to further improve operation under low ambient temperature.
- + The air exchange mechanism, facilitated by a fin-coil configuration, is further augmented by the integration of a hydrophilic coating.
- + The heat pump system features an innovative tube-in-tube heat exchanger with an internal spiral design. This design not only ensures exceptionally high thermal efficiency but also effectively combats scaling concerns. *Also available in shell in tube heat exchanger
- + The system incorporates a soft start device designed to effectively mitigate the impact of starting current. This innovative feature serves to optimize performance and minimize the strain on the system during the initial phases.
- + The system features a housing made from galvanized plates, further enhanced by a layer of powder coating. This combination of materials and treatments offers several advantages, ensuring durability, protection, and an appealing aesthetic.
- + LCD display wire controller.
- + The system integrates a hot water return control mechanism aimed at maintaining optimal warmth within the supplying pipes.
- + Experience unmatched freedom with our system's ability to set operating times according to your preferences. Tailor your schedule to meet your specific needs, ensuring optimal functionality and convenience.
- + The system operates seamlessly with an automatic mode that is closely tied to the temperature of the tank water.
- + Automatic defrosting.
- + Automatic prevent freezing in the winter.
- + Water flow protection control.
- + The system includes a sophisticated feature that enables control over auxiliary heating devices, such as electric heating units. This intelligent functionality offers a comprehensive approach to maintaining desired temperatures and ensuring optimal comfort.
- + Control of solar heating (optional).
- + Fault diagnosis and display.



SPECIFICATION (Standard)

| Honey Model | Type | KFRS-7J1A | KFRS-18J2 | KFRS-22J2 |
|---|-------------------|--------------|-----------------|-----------|
| Power supply(V/Ph/Hz) | | 220-240/1/50 | 380/415/3/50/42 | |
| Hot water model | | | | |
| - Heating capacity | kW | 7 | 18 | 22 |
| - Rated power input | kW | 1.8 | 4.2 | 4.9 |
| - COP | | 3.9 | 4.3 | 4.5 |
| - Rated hot water output | L/h | 150 | 390 | 480 |
| - Hot water temperature | °C | | 20~60 | |
| Floor heating | | | | |
| - Heating capacity | kW | / | 14 | 17.5 |
| - Rated power input | kW | / | 3.6 | 4.6 |
| - COP | W/W | / | 3.9 | 3.8 |
| Circulating water flow | m ³ /h | 1.2 | 3.1 | 3.8 |
| Water resistance | kPa | / | ≤48 | ≤52 |
| Compressor type | | Rotary | Scroll | |
| Refrigerant | | R407C | | |
| Noise | dB(A) | 55 | 58 | 58 |
| Net weight | kg | 57 | 130 | 140 |
| Unit dimensions (L×W×H) | mm | 850×290×605 | 960×340×1260 | |
| Packing dimensions (L×W×H) | mm | 930×360×656 | 1100×480×1350 | |
| Stacking layers | layer | 2 | 1 | 1 |
| Water pipe connector | mm | DN20(3/4") | DN25(1") | DN25(1") |
| Ambient condition | °C | | -15~43 | |
| Water flow switch | | None | Optional | Optional |
| Pump | | Built-in | None | |
| Auxiliary heating control function | | Yes | Yes | Yes |
| Indoor signal control function | | Yes | Yes | Yes |
| Modular control function | | No | No | No |



| Honey Model | Type | KFRS-36J2 | KFRS-45J2 | KFRS-72J2 | KFRS-90J2 | KFRS-150J2 |
|---|-------------------|---------------|--------------|----------------|-----------|----------------|
| Power supply(V/Ph/Hz) | | | | 380-415/3/50 | | |
| Hot water model | | | | | | |
| - Heating capacity | kW | 36 | 45 | 72 | 90 | 150 |
| - Rated power input | kW | 8.2 | 10.5 | 16.8 | 22 | 35.7 |
| - COP | | 4.4 | 4.3 | 4.3 | 4.1 | 4.2 |
| - Rated hot water output | L/h | 770 | 960 | 1550 | 1930 | 3220 |
| - Hot water temperature | °C | | | 20~60 | | |
| Floor heating | | | | | | |
| - Heating capacity | kW | 28 | 35 | 58 | 72 | 120 |
| - Rated power input | kW | 7.4 | 9.3 | 15.6 | 20 | 33.1 |
| - COP | W/W | 3.8 | 3.8 | 3.7 | 3.6 | 3.63 |
| Circulating water flow | m ³ /h | 6.8 | 7.8 | 12.5 | 15.5 | 26 |
| Water resistance | kPa | ≤60 | ≤60 | ≤60 | ≤60 | ≤60 |
| Compressor type | | | | Scroll | | |
| Refrigerant | | | | R407C | | |
| Noise | dB(A) | 64 | 64 | 66 | 66 | 68 |
| Net weight | kg | 300 | 320 | 700 | 730 | 1100 |
| Unit dimensions (L×W×H) | mm | 1390×740×1640 | | 2025×1030×1995 | | 2370×1400×2400 |
| Packing dimensions (L×W×H) | mm | 1490×790×1800 | | 2130×1075×2080 | | 2450×1430×2490 |
| Stacking layers | layer | 1 | 1 | 1 | 1 | 1 |
| Water pipe connector | mm | DN40(1-1/2") | DN40(1-1/2") | DN65(2-1/2") | | DN65(2-1/2") |
| Ambient condition | °C | | | -15~43 | | |
| Water flow switch | | Built-in | Built-in | Built-in | Built-in | Built-in |
| Pump | | | | None | | |
| Auxiliary heating control function | | Yes | Yes | Yes | Yes | Yes |
| Indoor signal control function | | Yes | Yes | Yes | Yes | Yes |
| Modular control function | | Yes | Yes | Yes | Yes | Yes |

* Rated test conditions:

- Hot water heating rated test conditions: Ambient temperature (DB/WB): 20°C/15°C; Water temperature: from 15°C to 55°C.

- Floor heating: Ambient temp. (DB/WB): 7°C/6°C, Water temp. (In/Out): 30°C/35°C.

SPECIFICATION (Enhanced Vapour Injection)

| Honny Model | Type | KFRS-18J2P | KFRS-36J2P | KFRS-72J2P |
|---|-------------------|-----------------|---------------|----------------|
| Power supply(V/Ph/Hz) | | 380/415/3/50/42 | | |
| Hot water model | | | | |
| - Heating capacity | kW | 18 | 36 | 72 |
| - Rated power input | kW | 4.2 | 8.2 | 16.8 |
| - COP | | 4.3 | 4.4 | 4.3 |
| - Rated hot water output | L/h | 390 | 770 | 1550 |
| - Hot water temperature | °C | 20~60 | | |
| Floor heating | | | | |
| - Heating capacity | kW | 16 | 31.5 | 63 |
| - Rated power input | kW | 4.1 | 8.1 | 16.1 |
| - COP | W/W | 3.9 | 3.9 | 3.9 |
| Circulating water flow | m ³ /h | 3 | 6.2 | 12 |
| Water resistance | kPa | ≤40 | ≤60 | ≤60 |
| Compressor type | | EVI Scroll | | |
| Refrigerant | | R407C | | |
| Noise | dB(A) | 58 | 64 | 66 |
| Net weight | kg | 135 | 320 | 740 |
| Unit dimensions (L×W×H) | mm | 960×340×1260 | 1390×740×1640 | 2025×1030×1995 |
| Packing dimensions (L×W×H) | mm | 1100×480×1350 | 1490×790×1800 | 2130×1075×2080 |
| Stacking layers | layer | 1 | | |
| Water pipe connector | mm | DN25(1") | DN40(1-1/2") | DN65(2-1/2") |
| Ambient condition | °C | -25~43 | | |
| Water flow switch | | Optional | built in | built in |
| Pump | | Built-in | None | |
| Auxiliary heating control function | | Yes | Yes | Yes |
| Indoor signal control function | | Yes | Yes | Yes |
| Modular control function | | No | Yes | Yes |

• Floor heating rated test conditions: Ambient temp. (DB/WB) : 7°C/6°C, Water temp. (In/Out) :30°C/35°C.

• Hot water heating rated test conditions: Ambient temp. (DB/WB) : 20°C/15°C, Water temp.:from15°C to 55°C.



CONFIGURATION & FUNCTION

| Model | | KFRS-7J1A | KFRS-18J2M KFRS-22J2M | KFRS-36J2 KFRS-45J2 | KFRS-72J2 KFRS-90J2 | KFRS-150J2 |
|--|-----|--|--------------------------|------------------------|------------------------|----------------------|
| Configuration | | | | | | |
| Compressor | | | | | | |
| - Type | | Rotary | Scroll | Scroll | Scroll | Scroll |
| - Quantity | | 1 | 1 | 2 | 4 | 4 |
| Evaporator | | | | | | |
| Hydrophilic aluminium fins + Internal thread copper pipe | | | | | | |
| Condenser | | | | | | |
| Tube in tube heat exchanger | | | | | | |
| Throttle Type | | | | | | |
| Electronic expansion valve | | | | | | |
| Fan Motor | | | | | | |
| Two speed to improve unit operation | | | | | | |
| ONE speed to improve unit operation | | | | | | |
| Water Pump | | | | | | |
| | | Internally Installed Canned Pump, Anti Rust, Anti-Scale, No Noise | Not Included | Not Included | Not Included | Not Included |
| Pressure Gauge | pcs | | (option) | 4 | 8 | 8 |
| Housing | | | | | | |
| Material | | | | | | |
| Galvanized steel coating powder | | | | | | |
| Color | | | | | | |
| White | | | | | | |
| Control | | | | | | |
| Control Type | | | | | | |
| Wire Remote | | | | | | |
| Controller Display | | | | | | |
| LCD | | | | | | |
| Operation | | | | | | |
| Button | | | | | | |
| Max Modular Control Units | pcs | | 16 | 16 | 8 | 8 |
| Soft Start Design | | | ✓ | ✓ | ✓ | ✓ |
| Keep Memory When Power Off | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto restart after power restore | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water Return Control | | | | | | |
| Five kinds of control way, keep water warm inside of hot water loop. (Water return system is optional) | | | | | | |
| Running Parameters Inspect | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Running Parameters To Modify | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Clock On Controller | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Timer Function | | | | | | |
| Two Period Timer Setting | | | | | | |
| Auto Defrost | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Weekly Sterilization | | ✓ | | | | |
| Signal control from indoor thermostat or terminal device | | | | | | |
| (passive signal) | | | | | | |
| Auto Control the Standby Electric Heater | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto Control the solar Heating pump Working | | Option (When the solar temp. is 10°C higher than tank water, the solar pump will be running) | | | | |
| Fault Diagnosis and display | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water Level Control and Display | | | | | | |
| Option | | | | | | |
| Protection Function | | | | | | |
| High Pressure Protection | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Low Pressure Protection | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Discharge temp overheating protection | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water outlet overheating protection | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water inlet temp. protection | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water flow protection | | | ✓ | ✓ | ✓ | ✓ |
| High current protection | | | ✓ | ✓ | ✓ | ✓ |
| Power phase sequence protection | | | ✓ | ✓ | ✓ | ✓ |
| Automatic prevent freezing in winter | | | ✓ | ✓ | ✓ | ✓ |
| Accessory | | | | | | |
| Wire controller | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Connecting line of controller | m | 5 | 5 | 5 | 5 | 5 |
| Screws for controller mounting | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tank temp. sensor | | | | 10K | | |
| Connecting line of tank sensor | m | 5 | 5 | 5 | 5 | 5 |
| Condensed water drain connector | | | ✓ | ✓ | ✓ | ✓ |
| Water flow switch | | | ✓ | | Internally Installed | |
| Line for modular communication | | | ✓ | ✓ | ✓ | ✓ |
| Water level sensor | | | Option | Option | Option | Option |
| Packing | | | | | | |
| Packing Type (normal) | | | | | | |
| Quantity | | Carton | Carton+Plywood Pallet | Carton+Plywood Pallet | Plastic Film+Plywood | Plastic Film+Plywood |
| - 20ft Container | pcs | 108 | 27 | 10 | 5 | |
| - 40ft Container | pcs | 228 | 57 | 23 | 11 | |

POOL HEAT PUMP WATER HEATER

PRODUCT FEATURES

- + Swimming pool water heating.
- + High-quality rotary compressor.
- + Eco-friendly refrigerant: R407C or R417A.
- + Two speed fan motor, further improve unit operation under high ambient temperature.
- + Electronic expansion valve regulates the flow of refrigerant precisely.
- + Heat-exchanger cycle technology to further improve operation under low ambient temperature.
- + Air exchanger (Fins-coil) with hydrophilic coating.
- + Heat exchanger with titanium tubes enclosed within a high-strength plastic shell offers corrosion resistance and the convenience of easy disassembly for cleaning purposes.
- + The housing is constructed from galvanized plates and further protected with a powder coating for added durability and resistance to environmental factors.
- + Wire controller with an LCD display.
- + The modular control design allows for flexible unit installation, enabling units to be combined freely. With this setup, a single controller has the capability to manage up to 16 units simultaneously.
- + A variable energy design, the number of active compressors automatically adjusts in response to changes in water temperature. For example of 16pcs KFRS-40J2Y, the variable energy is 32/32,31/32,30/32……,1/32.
- + The soft start design initiates the compressors in a sequential manner, with priority given to the one that has been at rest for a longer duration. This approach minimizes sudden power surges and promotes smoother operation.
- + The flexibility to set the operating time according to your preferences or requirements.
- + Unit runs or stop automatically according to tank water temperature.
- + Automatic defrosting.
- + Automatic prevent freezing in the winter.
- + Water flow protection control.
- + With control of auxiliary heating device (e.g. electric heating).
- + More protection functions.
- + Fault diagnosis and display.



SPECIFICATION



| Model | | KFRS-20E2Y | KFRS-40E2Y | KFRS-50E2Y | KFRS-80E2Y | KFRS-100E2Y |
|-----------------------------|-------------------|-------------------|-----------------|-------------------|---------------------|-------------|
| HP | | 5 | 10 | 12 | 20 | 25 |
| Rated Heating Capacity | kW | 20 | 40 | 50 | 80 | 100 |
| Power Input | kW | 4.4 | 8.2 | 10.5 | 16.5 | 22 |
| Circulating Water | m ³ /h | 5.8 | 11.4 | 14.2 | 22.9 | 28.5 |
| Pressure Drop | kPa | ≤40 | | | | |
| Hot water temperature range | °C | 25~43 | | | | |
| Power Supply | | 380-415V/3PH/50Hz | | | | |
| Compressor Type | | Scroll | | | | |
| Compressor Qty | | 1 | 2 | 2 | 2 | 2 |
| Refrigerant | | R410a | | | | |
| Noise | db | 58 | 64 | 64 | 66 | 66 |
| Net Weight | kg | 126 | 300 | 350 | 700 | 760 |
| Unit Dimensions (L×W×H) | mm | 755×755×680 | 1390×740×1640 | | 2025×1030×1990 | |
| Packing Size (L×W×H) | | 855×855×720 | 1490×790×1800 | | 2130×1075×2080 | |
| Pipe Connection Size | mm | DN25(1") Female | DN40(1") Female | | DN50(1-1/2") Female | |
| Ambient air range | °C | -5 ~43 | | | | |
| Water side Heat Exchanger | | Co-axial (Ti) | | Shell & tube (Ti) | | |
| Flow Switch | | Built in | | | | |
| Air Discharge | | Top Discharge | | | | |

- Rated condition: ambient air 24°C wet bulb 19°C; Entering water 27°C.

- Please consult Honny if other refrigerant required such as R407C, R417A.

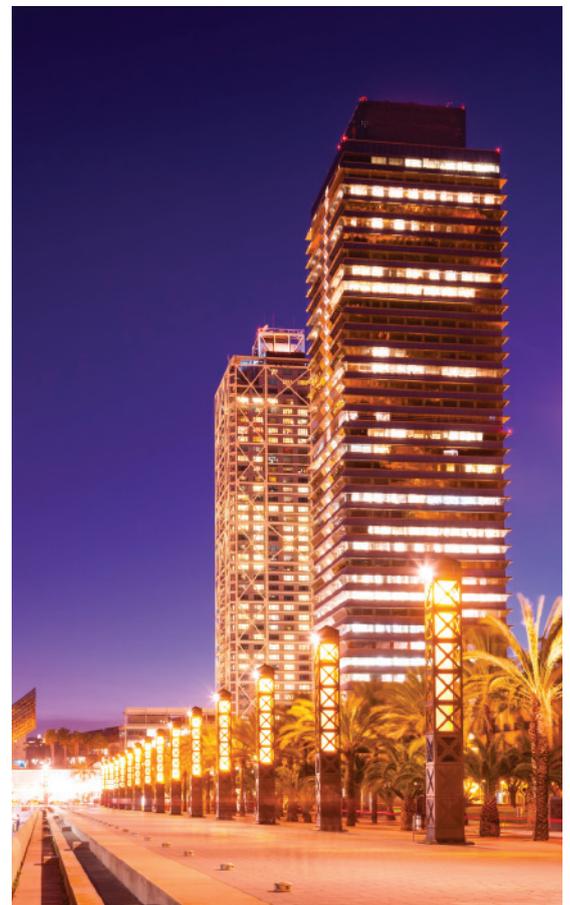
- Honny reserve the right to change above parameters without future notice.

CONFIGURATION & FUNCTION

| Model | | KFRS-20E2Y | KFRS-40E2Y KFRS-50E2Y | KFRS-80E2Y KFRS-100E2Y |
|--|-----|--|--------------------------|---------------------------|
| Configuration | | | | |
| • Compressor | | Scroll | Scroll | Scroll |
| – Type | | | | |
| – Quantity | | 1 | 2 | 4 |
| • Evaporator | | Hydrophilic aluminium fins + Internal thread copper pipe | | |
| • Condenser | | Titanium Tube in tube heat exchanger | | |
| • Throttle Type | | Electronic expansion valve | | |
| • Fan Motor | | Two speed to improve unit operation | | |
| • Pressure Gauge | pcs | ✓ | ✓ | ✓ |
| Housing | | | | |
| • Material | | Galvanized steel Powder Coating | | |
| • Color | | White | | |
| Control | | | | |
| • Control Type | | Wire remote | | |
| • Controller Display | | LCD | | |
| • Operation | | Button | | |
| • Max Modular Control Units | pcs | 16 | 16 | 16 |
| • Variable Energy Design | | ✓ | ✓ | ✓ |
| • Soft Start Design | | ✓ | ✓ | ✓ |
| • Keep Memory When Power Off | | ✓ | ✓ | ✓ |
| • Auto restart after power restore | | ✓ | ✓ | ✓ |
| • Running Parameters Inspect | | ✓ | ✓ | ✓ |
| • Control Parameters to Modify | | ✓ | ✓ | ✓ |
| • Clock On Controller | | ✓ | ✓ | ✓ |
| • Timer Function | | Two Period Timer Setting | | |
| • Auto Defrost | | ✓ | ✓ | ✓ |
| • Auto Control the Standby Electric Heater | | ✓ | ✓ | ✓ |
| • Fault Diagnosis and display | | ✓ | ✓ | ✓ |
| Protection Function | | | | |
| • High Pressure Protection | | ✓ | ✓ | ✓ |
| • Low Pressure Protection | | ✓ | ✓ | ✓ |
| • Discharge temp overheating protection | | ✓ | ✓ | ✓ |
| • Water Outlet overheating protection | | ✓ | ✓ | ✓ |
| • Water flow protection | | ✓ | ✓ | ✓ |
| • High current protection | | ✓ | ✓ | ✓ |
| • Power phase sequence protection | | ✓ | ✓ | ✓ |
| • Automatic prevent freezing in winter | | ✓ | ✓ | ✓ |
| Accessory | | | | |
| • Wire controller | | ✓ | ✓ | ✓ |
| • Connecting line of controller | m | 5 | 5 | 5 |
| • Screws for controller mounting | | ✓ | ✓ | ✓ |
| • Water flow switch | | ✓ | ✓ | ✓ |
| • Line for modular communication | | ✓ | ✓ | ✓ |
| Packing | | | | |
| • Packing Type (normal) | | Carton+plywood pallet | | Plastic+film+plywood |
| • Quantity | | | | |
| – 20ft Container | pcs | 27 | 10 | 5 |
| – 40ft Container | pcs | 57 | 23 | 11 |

COMMERCIAL HEAT PUMP PRODUCT FEATURES

- + Application: Residential and commercial (heating & cooling).
- + High-quality compressor.
- + Eco-friendly refrigerant: R410A.
- + Electronic expansion valve maintains precise control over the refrigerant flow.
- + Air exchanger (Fins-coil) with hydrophilic coating.
- + High-efficiency tube-in-shell heat exchanger designed for water exchange.
- + Housing made of galvanized steel plates with a powder coating finish.
- + Wire remote controller with an LCD display.
- + Modular control design where units can be freely combined, allowing a single controller to manage and control between 8 to 16 units simultaneously.
- + Variable energy design that automatically adjusts the number of running compressors based on changes in water temperature. For example of 16pcs KLRS-E2, the variable energy is 32/32,31/32,30/32……,1/32.
- + Soft start design where compressors start or stop in a sequential manner, with priority given to the one that has been at rest for a longer duration.
- + Freedom to set the operating time according to your preferences or requirements.
- + Automatic defrosting.
- + Automatic freeze protection to safeguard the water heat exchanger from freezing.
- + Control system that ensures protection by monitoring and regulating water flow.
- + Incorporating control of an auxiliary heating device, such as electric heating, into the system.
- + Signal control from indoor thermostat or other switch signal (passive signal).
- + Additional protective functions included in the system for enhanced safety and performance.
- + Fault diagnosis and display.



SPECIFICATION (Standard)



| Honey Model | | KLRS-12E2P | KLRS-15E2B | KLRS-24E2 | KLRS-30E2 | KLRS-60E2 | KLRS-130E2 |
|---|-------------------|---------------|--------------|---------------|----------------|----------------|--------------|
| Power supply (V/Ph/Hz) | | 380-415/3/50 | | | | | |
| Floor heating | | | | | | | |
| – Heating capacity | kW | 14 | 17.5 | 28 | 35 | 68 | 145 |
| – Rated power input | kW | 3.6 | 4.6 | 7.4 | 9.2 | 18 | 38.5 |
| – COP | W/W | 3.9 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| Fan coil heating | | | | | | | |
| – Heating capacity | kW | 13.0 | 16.0 | 26.0 | 33.0 | 65 | 135 |
| – Rated power input | kW | 3.90 | 4.80 | 7.90 | 10.00 | 20.00 | 40.60 |
| – COP | W/W | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| Cooling | | | | | | | |
| – Cooling capacity | kW | 12 | 15 | 24 | 30 | 60 | 125 |
| – Rated power input | kW | 4.35 | 5.20 | 8.5 | 10.7 | 21 | 43 |
| – EER | W/W | 2.8 | 2.9 | 2.8 | 2.8 | 2.8 | 2.9 |
| Circulating water flow | | | | | | | |
| – Heating | m ³ /h | 2.4 | 3 | 4.9 | 6 | 12 | 25 |
| – Cooling | m ³ /h | 2.1 | 2.7 | 4.2 | 5.1 | 10.5 | 21.6 |
| Water resistance | kPa | ≤43 | ≤46 | ≤56 | ≤60 | ≤50 | ≤65 |
| Compressor type | | Scroll | | | | | |
| Refrigerant | | R410A | | | | | |
| Noise | dB(A) | 58 | 59 | 64 | 65 | 66 | 75 |
| Net weight | kg | 120 | 150 | 300 | 325 | 750 | 1000 |
| Unit dimensions (LxWxH) | mm | 960×340×1260 | 810×765×1060 | 1390×740×1640 | 2025×1030×1995 | 2200×1450×2400 | |
| Packing dimensions (LxWxH) | mm | 1100×480×1350 | 820×790×1160 | 1490×790×1800 | 2130×1075×2080 | 2300×1495×2480 | |
| Water pipe connector | mm | DN25(1") | | DN40(1-1/2") | | DN50(2") | DN65(2-1/2") |
| Ambient condition | °C | -10~43 | | | | | |
| Water side exchanger | | PHE | | | Shell & tube | | |
| Water flow switch | | Optional | | | built in | | |
| Auxiliary heating control function | | Yes | Yes | Yes | Yes | Yes | Yes |
| Indoor signal control function | | Yes | Yes | Yes | Yes | Yes | Yes |
| Modular control function | | No | No | Yes | Yes | Yes | Yes |

- Floor heating rated conditions: Ambient temp. (DB/WB): 7°C / 6°C, Water temp. (In/Out): 30°C / 35°C.
- Fan coil heating rated conditions: Ambient temp. (DB/WB): 7°C / 6°C, Water temp. (In/Out): 40°C / 45°C.
- Cooling rated conditions: Ambient temp. (DB/WB): 35°C / 24°C, Water temp. (In/Out): 12°C / 7°C.

SPECIFICATION (Enhanced Vapour Injection)



| Honey Model | | KLRS-12E2P | KLRS-24E2P | KLRS-30E2P | KLRS-60E2P | KLRS-130E2P |
|---|-------------------|---------------|---------------|--------------|----------------|----------------|
| Power supply (V/Ph/Hz) | | 380-415/3/50 | | | | |
| Floor heating | | | | | | |
| – Heating capacity | kW | 15 | 30 | 36 | 72 | 145 |
| – Rated power input | kW | 3.8 | 7.6 | 9.5 | 18.5 | 38.5 |
| – COP | W/W | 3.9 | 3.9 | 3.8 | 3.9 | 3.8 |
| Fan coil heating | | | | | | |
| – Heating capacity | kW | 15.0 | 30.0 | 36.0 | 72 | 135 |
| – Rated power input | kW | 4.45 | 9.00 | 11.00 | 22.00 | 40.60 |
| – COP | W/W | 3.4 | 3.3 | 3.3 | 3.3 | 3.3 |
| Cooling | | | | | | |
| – Cooling capacity | kW | 12 | 24 | 30 | 60 | 125 |
| – Rated power input | kW | 4.20 | 8.5 | 10.5 | 21 | 43 |
| – EER | W/W | 2.9 | 2.8 | 2.9 | 2.8 | 2.9 |
| Circulating water flow | | | | | | |
| – Heating | m ³ /h | 2.8 | 5.7 | 6.2 | 12.4 | 25 |
| – Cooling | m ³ /h | 2.3 | 4.5 | 5.6 | 11.3 | 21.6 |
| Water resistance | kPa | ≤50 | ≤35 | ≤35 | ≤60 | ≤60 |
| Compressor type | | EVI Scroll | | | | |
| Refrigerant | | R410A | | | | |
| Noise | dB(A) | 58 | 64 | 64 | 66 | 72 |
| Net weight | kg | 130 | 310 | 300 | 790 | 1060 |
| Unit dimensions (LxWxH) | mm | 960×340×1260 | 1390×740×1640 | | 2025×1030×1995 | 2200×1450×2400 |
| Packing dimensions (LxWxH) | mm | 1100×480×1350 | 1490×790×1800 | | 2130×1075×2080 | 2300×1495×2480 |
| Stacking layers | layers | 1 | | | | |
| Water pipe connector | mm | DN25(1") | DN40(1-1/2") | | DN50(2") | DN65(2-1/2") |
| Ambient condition | °C | -20~60 | | | | |
| Water side exchanger | | PHE | | Shell & tube | | |
| Water flow switch | | Optional | | Built-in | | |
| Auxiliary heating control function | | Yes | Yes | Yes | Yes | Yes |
| Indoor signal control function | | Yes | Yes | Yes | Yes | Yes |
| Modular control function | | No | Yes | Yes | Yes | Yes |

- Floor heating rated conditions: Ambient temp. (DB/WB) : 7°C / 6°C, Water temp. (In/Out) :30°C / 35°C.
- Fan coil heating rated test conditions: Ambient temp. (DB/WB) : 7°C / 6°C, Water temp. (In/Out) :40°C / 45°C.
- Cooling rated test conditions: Ambient temp. (DB/WB) : 35°C / 24°C, Water temp. (In/Out) :12°C / 7°C.

CONFIGURATION & FUNCTION

| Model | | KLRS-12E2 KLRS-15E2B | KLRS-24E2 KLRS-30E2 | KLRS-60E2 | KLRS-130E2 |
|--|-----|--|------------------------|------------|----------------------|
| Configuration | | | | | |
| • Compressor | | Scroll | Scroll | Scroll | Scroll |
| – Type | | 1 | 2 | 2 | 4 |
| – Quantity | | | | | |
| • Evaporator | | Hydrophilic aluminium fins + Internal thread copper pipe | | | |
| • Condenser | | Tube in tube heat exchanger | | | |
| • Throttle Type | | Electronic expansion valve | | | |
| • Fan Motor | | 2 Low noise fan motor | | | |
| • Pressure Gauge | pcs | NONE | 4 | NONE | NONE |
| Housing | | | | | |
| • Material | | Galvanized steel coating powder | | | |
| • Color | | White | | | |
| Control | | | | | |
| • Control Type | | Wire remote | | | |
| • Controller Display | | LCD | | | |
| • Operation | | Button | | | |
| • Max Modular Control Units | pcs | 16 | 16 | 16 | 16 |
| • Variable Energy Design | | ✓ | ✓ | ✓ | ✓ |
| • Soft Start Design | | ✓ | ✓ | ✓ | ✓ |
| • Keep Memory When Power Off | | ✓ | ✓ | ✓ | ✓ |
| • Auto restart after power restore | | ✓ | ✓ | ✓ | ✓ |
| • Running Parameters Inspect | | ✓ | ✓ | ✓ | ✓ |
| • Running Parameters to Modify | | ✓ | ✓ | ✓ | ✓ |
| • Clock On Controller | | ✓ | ✓ | ✓ | ✓ |
| • Timer Function | | Two Period Timer Setting | | | |
| • Auto Defrost | | ✓ | ✓ | ✓ | ✓ |
| • Signal control from indoor thermostat or terminal device | | (passive signal) | | | |
| • Auto Control the Standby Electric Heater | | ✓ | ✓ | ✓ | ✓ |
| • Fault Diagnosis and display | | ✓ | ✓ | ✓ | ✓ |
| Protection Function | | | | | |
| • High Pressure Protection | | ✓ | ✓ | ✓ | ✓ |
| • Low Pressure Protection | | ✓ | ✓ | ✓ | ✓ |
| • Discharge temp overheating protection | | ✓ | ✓ | ✓ | ✓ |
| • Water outlet overheating protection | | ✓ | ✓ | ✓ | ✓ |
| • Water inlet temp. protection | | ✓ | ✓ | ✓ | ✓ |
| • Water flow protection | | ✓ | ✓ | ✓ | ✓ |
| • High current protection | | ✓ | ✓ | ✓ | ✓ |
| • Power phase sequence protection | | ✓ | ✓ | ✓ | ✓ |
| • Automatic prevent freezing in winter | | ✓ | ✓ | ✓ | ✓ |
| Accessory | | | | | |
| • Wire controller | | ✓ | ✓ | ✓ | ✓ |
| • Connecting line of controller | m | | | 5 | |
| • Screws for controller mounting | | ✓ | ✓ | ✓ | ✓ |
| • Tank temp. sensor | | 10K (Option) | | | |
| • Connecting line of tank sensor | m | | | 5 (Option) | |
| • Water flow switch | | Internally Installed | | | |
| • Line for modular communication | | ✓ | ✓ | ✓ | ✓ |
| Packing | | | | | |
| • Packing Type (normal) | | Carton+plywood pallet | | | Plastic film+plywood |
| • Quantity | | | | | |
| – 20ft Container | pcs | 10 | | | 5 |
| – 40ft Container | pcs | 23 | | | 11 |

THREE IN ONE HEAT PUMP

PRODUCT FEATURES

- + Scope of Application: Providing Room Heating, Cooling, and Supplying Sanitary Hot Water.
- + Five Modes: Hot Water, Heating, Cooling, Heating with Hot Water, and Cooling with Hot Water.
- + In summer, when operating in the Cooling + Hot Water mode, the unit will automatically provide cooling, hot water, or both simultaneously while generating sanitary hot water exceeding 70°C.
- + In winter, when using the Heating + Hot Water mode, the unit will automatically provide heating, hot water, or both simultaneously.
- + High temperature compressor.
- + Eco-friendly refrigerant: R407C.
- + Three heat exchangers are utilized, with a strict segregation between the systems for sanitary hot water and heating (or cooling) water. This clear separation ensures that there is no mixing or crossover between these two functions.
- + Air exchanger equipped with a fins-coil heat exchanger that has been coated with a hydrophilic layer.
- + Cooling (Heating) Water Exchanger: High-Efficiency Plate Heat Exchanger.
- + Hot Water Exchanger: Tube-in-Tube Heat Exchanger with an Internal Spiral Design for High Thermal Efficiency and Effective Scaling Prevention.
- + The electronic expansion valve precisely controls the flow of refrigerant.
- + Two-speed fan motor enhances unit performance, particularly in high-temperature conditions when operating in the hot water mode.
- + Featuring a modular control design, these units can be freely combined during installation, with a single controller capable of managing 8 to 16 units. **not for KS-12J2**.
- + Variable energy design allows for automatic adjustment of the running compressors based on changes in water temperature. For instance, with 16 units of KLRS-24J2, the variable energy can range from 32/32 to 1/32 as the water temperature fluctuates. **not for KS-12J2**.
- + A soft-start device is incorporated to reduce the initial current during startup, especially for 5HP 1-phase units.
- + Galvanized plate housing, powder coating.
- + LCD display wire remote controller.
- + Flexibility to set the operating time as per your preference.
- + Unit runs or stop automatically according to water temperature.
- + Automatic defrosting.
- + Automatic prevent freezing to protect the plate heat exchanger.
- + Water flow protection control.
- + Control of auxiliary heating device (e.g. electric heating).
- + Signal control from indoor thermostat or other switch signal (passive signal).
- + More protection functions.
- + Fault diagnosis and display.



SPECIFICATION (Standard)



| Honey Model | | KS-12J2 | KS-24J2 | KS-30J2 | KS-50J2 | KS-60J2 |
|--|-------------------|---------------|---------------|--------------|----------------|--------------|
| Power Supply (V/Ph/Hz) | | | | 380-415/3/50 | | |
| Hot water model | | | | | | |
| – Heating capacity | kW | 17.5 | 35 | 45 | 70 | 82 |
| – Rated power input | kW | 4.2 | 8.2 | 10.2 | 16.5 | 19.4 |
| – COP | | 4.2 | 4.3 | 938.0 | 4.2 | 4.2 |
| – Rated hot water output | L/h | 375 | 750 | 7.8 | 1500 | 1750 |
| – Hot water temperature | °C | | | 20~60 | | |
| Floor heating model | | | | | | |
| – Heating capacity | kW | 14 | 28 | 35 | 60 | 68 |
| – Rated power input | kW | 3.6 | 7.4 | 9.4 | 15.4 | 18 |
| – COP | | 3.9 | 3.8 | 3.8 | 3.9 | 3.8 |
| Fan coil heating model | | | | | | |
| – Heating capacity | kW | 13.0 | 27.0 | 33.8 | 55.0 | 62.0 |
| – Rated power input | kW | 4.35 | 8.90 | 11.30 | 17.00 | 20.50 |
| – COP | | 3.0 | 3.0 | 3.0 | 3.2 | 3.0 |
| Cooling mode | | | | | | |
| – Cooling capacity | kW | 12 | 24 | 30 | 50 | 60 |
| – Heat recovery capacity | kW | 14 | 28 | 32 | 57 | 66 |
| – Rated input power | kW | 4.1 | 8 | 10 | 17 | 20.3 |
| – EER | | 6.3 | 6.5 | 6.3 | 6.3 | 6.2 |
| Circulating water flow | | | | | | |
| – Hot water | m ³ /h | 2.5 | 5.0 | 6.2 | 10.0 | 11.8 |
| – Heating/Cooling | | 2.1 | 4.2 | 5.3 | 9.6 | 11.2 |
| Water resistance | | | | | | |
| – Hot water side | kPa | ≤35 | ≤40 | | ≤50 | |
| – Heating/cooling side | | ≤15 | ≤25 | | ≤45 | |
| Compressor type | | | | Scroll | | |
| Refrigerant | | | | R407C | | |
| Noise | dB(A) | 58 | 64 | 65 | 66 | 67 |
| Net weight | kg | 139 | 330 | 380 | 760 | 830 |
| Unit dimensions | mm | 960×340×1260 | 1390×740×1640 | | 2025×1030×1995 | |
| Packing dimensions | mm | 1100×480×1350 | 1490×790×1800 | | 2130×1075×2080 | |
| Stacking layers | layer | 1 | 1 | 1 | 1 | 1 |
| Water pipe connector | | | | | | |
| – Hot water | | DN25(1") | DN40(1-1/2") | | DN65(2-1/2") | DN65(2-1/2") |
| – Heating/Cooling | | DN25(1") | DN40(1-1/2") | | DN50(2") | DN50(2") |
| Ambient condition | °C | | | -10~43 | | |
| Flow Switch | | Optional | | | Built-in | |
| Air Discharge | | Rear | | | Top | |
| Auxiliary heating control function (hot water side) | | No | Yes | Yes | Yes | Yes |
| Auxiliary heating control function (heating side) | | Yes | Yes | Yes | Yes | Yes |
| Indoor signal control function (heating/cooling) | | Yes | Yes | Yes | Yes | Yes |
| Modular control function | | No | Yes | Yes | Yes | Yes |

• Water heater rated test conditions:
Ambient temp. (DB/WB) :
20°C / 15°C, Initial water temp.15,
temp. rise of 40°C.

Floor heating rated test conditions:
Ambient temp. (DB/WB): 7°C / 6°C,
Water temp. (In/Out): 30°C / 35°C.

• AC heating rated test conditions:
Ambient temp. (DB/WB): 7°C / 6°C,
Water temp. (In/Out) :
40°C/45°C.

• AC cooling rated test conditions:
Ambient temp. (DB/W): 35°C / 24°C,
Water temp. (In/Out) 12°C / 7°C.
Heat recovery water temp.
(In/Out): Initial water temp. 25°C,
temp. rise of 30°C.

SPECIFICATION (Enhanced Vapour Injection)



| Honey Model | | KS-12J2P | KS-24J2P | KS-50J2P |
|--|-------------------|--------------|---------------|----------------|
| Power Supply (V/Ph/Hz) | | 380-415/3/50 | | |
| Hot water model | | | | |
| – Heating capacity | kW | 17.5 | 35 | 70 |
| – Rated power input | kW | 4.2 | 8.2 | 16.5 |
| – COP | | 4.2 | 4.3 | 4.2 |
| – Hot water output | L/h | 375 | 750 | 1500 |
| – Hot water temperature | °C | 20–60 | | |
| Floor heating model | | | | |
| – Heating capacity | kW | 16 | 31.5 | 63 |
| – Rated power input | kW | 4.1 | 8.1 | 16.1 |
| – COP | | 3.9 | 3.9 | 3.9 |
| Fan coil heating model | | | | |
| – Heating capacity | kW | 15.0 | 30.0 | 60 |
| – Rated power input | kW | 4.45 | 9.00 | 18.2 |
| – COP | | 3.4 | 3.3 | 3.3 |
| Cooling mode | | | | |
| – Cooling capacity | kW | 12 | 24 | 50 |
| – Heat recovery capacity | kW | 14.0 | 28.0 | 57.0 |
| – Rated input power | kW | 4.10 | 8.0 | 17 |
| – EER | | 6.3 | 6.5 | 6.3 |
| Circulating water flow | | | | |
| – Hot water | m ³ /h | 3.0 | 6.0 | 12 |
| – Heating/Cooling | | 2.6 | 5.2 | 10.3 |
| Water resistance | | | | |
| – Hot water side | kPa | ≤40 | ≤78 | ≤90 |
| – Heating/cooling side | | ≤46 | ≤35 | ≤54 |
| Compressor type | | | | |
| | | EVI Scroll | | |
| Refrigerant | | | | |
| | | R407C | | |
| Noise | dB(A) | 58 | 64 | 66 |
| Net weight | kg | 143 | 340 | 780 |
| Unit dimensions | mm | 960×340×1260 | 1390×740×1640 | 2025×1030×1995 |
| Packing dimensions | mm | 960×340×1260 | 1490×790×1800 | 2130×1075×2080 |
| Stacking layers | layer | 1 | 1 | 1 |
| Water pipe connector | | | | |
| – Hot water | | DN25(1") | DN40(2-1/2") | DN65(2-1/2") |
| – Heating/Cooling | | DN25(1") | DN40(2-1/2") | DN50(2") |
| Ambient condition | | | | |
| | °C | | | |
| Flow Switch | | | | |
| | | Optional | | Built-in |
| Air Discharge | | | | |
| | | Rear | Top | |
| Auxiliary heating control function (hot water side) | | | | |
| | | No | Yes | Yes |
| Auxiliary heating control function (heating side) | | | | |
| | | Yes | Yes | Yes |
| Indoor signal control function (heating/cooling) | | | | |
| | | Yes | Yes | Yes |
| Modular control function | | | | |
| | | No | Yes | Yes |

• Water heater rated test conditions: Ambient temp. (DB/WB): 20°C / 15°C, Initial water temp. 15°C, temp. rise of 40°C.

• Floor heating rated test conditions: Ambient temp. (DB/WB): 7°C / 6°C, Water temp. (Inlet/Outlet): 30°C / 35°C.

• AC heating rated test conditions: Ambient temp. (DB/W): 7°C / 6°C, Water temp. (Inlet/Outlet): 40°C/45°C.

• AC cooling rated test conditions: Ambient temp. (DB/W): 35°C / 24°C, Water temp. (Inlet/Outlet) 12°C / 7°C. Heat recovery water temp. (Inlet/Outlet): 40°C/45°C.

CONFIGURATION & FUNCTION

| Model | | KS-12J2 | KS-24J2 KS-30J2 | KS-50J2 KS-60J2 |
|--|-----|--|------------------------------|----------------------|
| Configuration | | | | |
| • Compressor | | Scroll | Scroll | Scroll |
| – Type | | | | |
| – Quantity | | 1 | 2 | 2 |
| • Evaporator | | Hydrophilic aluminium fins + Internal thread copper pipe | | |
| • Condenser for Heating & Cooling | | Plate Heat Exchanger | Tube in Shell heat exchanger | |
| • Condenser for Hot Water Heating | | | Tube in tube heat exchanger | |
| • Throttle Type | | | Electronic expansion valve | |
| • Fan Motor | | | 2 Low noise fan motor | |
| Housing | | | | |
| • Material | | Galvanized steel coating powder | | |
| • Color | | White | | |
| Control | | | | |
| • Control Type | | Wire Remote | | |
| • Controller Display | | LCD | | |
| • Operation | | Button | | |
| • Max Modular Control Units | pcs | 16 | 16 | 8 |
| • Variable Energy Design | | | ✓ | ✓ |
| • Soft Start Design | | ✓ | ✓ | ✓ |
| • Keep Memory When Power Off | | ✓ | ✓ | ✓ |
| • Auto restart after power restore | | ✓ | ✓ | ✓ |
| • Hot Water return Control (Hot water supply loop) | | Five kinds of control way, keep water warm inside of hot water loop. (Hot water return system is optional) | | |
| • Running Parameters Inspect | | ✓ | ✓ | ✓ |
| • Control Parameters to Modify | | ✓ | ✓ | ✓ |
| • Clock On Controller | | ✓ | ✓ | ✓ |
| • Timer Function | | Two Period Timer Setting | | |
| • Auto Defrost | | ✓ | ✓ | ✓ |
| • Signal control from indoor thermostat or terminal device | | (passive signal) | | |
| • Auto Control the Standby Electric Heater | | ✓ | ✓ | ✓ |
| • Fault Diagnosis and display | | ✓ | ✓ | ✓ |
| • Water Level Control and Display | | Option | | |
| Protection Function | | | | |
| • High Pressure Protection | | ✓ | ✓ | ✓ |
| • Low Pressure Protection | | ✓ | ✓ | ✓ |
| • Discharge temp overheating protection | | ✓ | ✓ | ✓ |
| • Water outlet overheating protection | | ✓ | ✓ | ✓ |
| • Water inlet temp. protection | | ✓ | ✓ | ✓ |
| • Water flow protection | | ✓ | ✓ | ✓ |
| • High current protection | | | ✓ | ✓ |
| • Power phase sequence protection | | ✓ | ✓ | ✓ |
| • Automatic prevent freezing in winter | | ✓ | ✓ | ✓ |
| Accessory | | | | |
| • Wire controller | | ✓ | ✓ | ✓ |
| • Connecting line of controller | m | | 5 | |
| • Screws for controller mounting | | ✓ | ✓ | ✓ |
| • Tank temp. sensor | | 10K, 2pc | 10K | |
| • Connecting line of tank sensor | m | 5m, 2pcs | 5m | |
| • Water Flow Switch | | ✓ | Internally Installed | |
| • Line for modular communication | | ✓ | ✓ | ✓ |
| • Water level sensor | | | Option | Option |
| Packing | | | | |
| • Packing Type (normal) | | Carton+plywood pallet | | Plastic film+plywood |
| • Quantity | | | | |
| – 20ft Container | pcs | 27 | 10 | 5 |
| – 40ft Container | pcs | 57 | 23 | 11 |



GET IN TOUCH WITH US

Office: Sunjiali 100,Xiangbin Road,Xiaoshan District,Hangzhou,China

Mail: honnyhvac@gmail.com

Website: www.honny-cn.com