

HIGH-END 5G  
CLOUD SMART INTEGRATED  
AIR SOURCE HEAT PUMP

**ECOFUTURE<sup>®</sup>**

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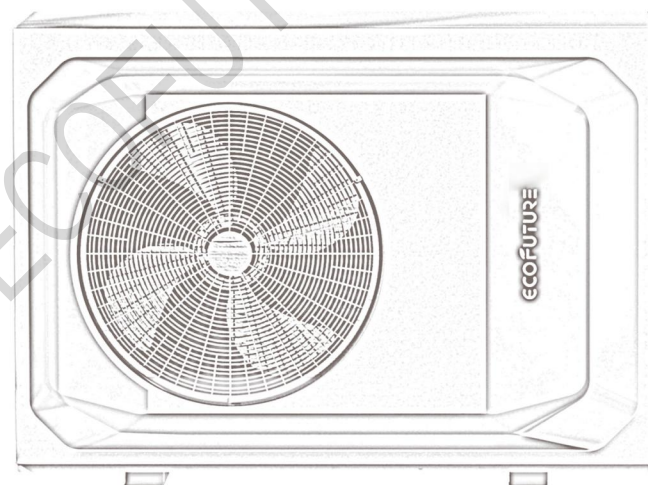
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**4008221368**



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**ECOFUTURE<sup>®</sup>**

Specializing in the production of various types of air source  
heat pumps and solar water heaters for 25 years



**ZHEJIANG JIADELE  
TECHNOLOGY CO.,LTD**

[www.jdlheatpump.com](http://www.jdlheatpump.com)

# THE ADVANTAGES OF AIR SOURCE HEAT PUMPS

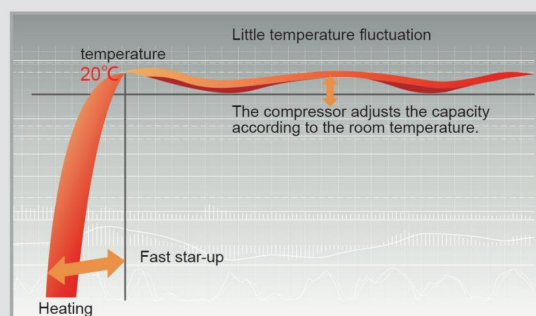
## 01 DC INVERTER Technology

With the use of inverter compressors, brushless DC fan motors and PFC control method, the units can regulate the running capacity at any time when they need to save energy. With no frequent start-ups and stop runnings, the units work in stable condition with high efficiency. The energy consumption is 30% less than that of common heat pump units.



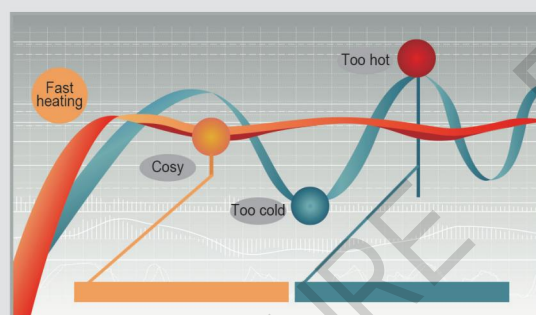
## 02 HIGH ACCURACY of Temperature Control

The units can change the operating frequency of the compressors automatically according to the room heating/cooling demand. When the target room temperature is going to be reached, the units run at a lower frequency, and the temperature control accuracy can be 0.5°C.



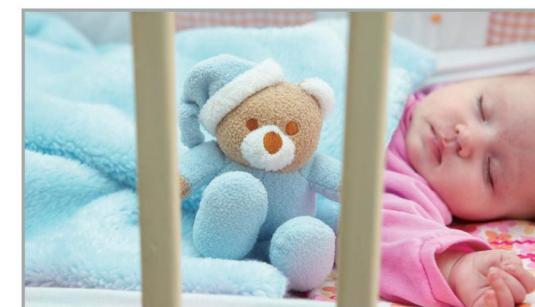
## 03 FAST Heating/Cooling

When there is large difference between the actual room temperature and the unit setting temperature, the unit can run at higher frequency to make fast heating/cooling to increase/decrease the room temperature rapidly.



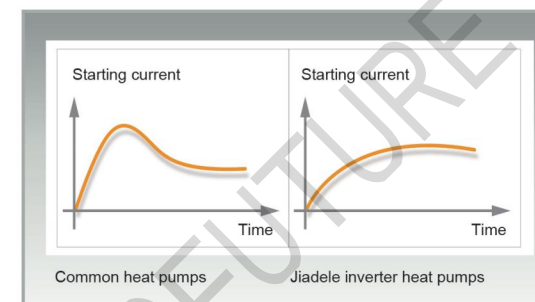
## 04 LOWER Noise

Because there will be no frequent start-ups and stop runnings, and the units work in stable condition, the noise from the units can be reduced significantly.



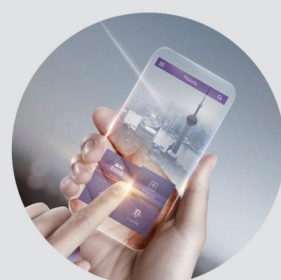
## 05 ELECTRIC UTILITIES Benefits

Because of the DC inverter high efficiency design, the units can reduce the load on electric utilities while running.



## 06 ROOM Thermostat

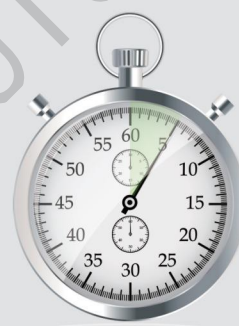
By installing the room thermostat in your room, you can control both heat pump units and terminals together. A fast heating mode is available in winter, which starts fan coils and floor heating together to heat up rooms. (room thermostat specification: 230V, RS485 interface)



MOBILE APP  
CONTROL



SATISFY DIFFERENT  
DEMANDS



TIMER SETTING



ONE TOUCH  
FUNCTION



WEATHER FORECAST



ENERGY  
CONSUMPTION

## THE MAIN COMPONENTS DETAILS

### Compressor

Panasonic special compressor for heat pump, DC frequency conversion, Enhanced Vapor Injection, more than 30% energy saving, combined with self-developed PWM and fuzzy control technology, refined temperature control. 15% lower noise than the common domestic brand.

### Controller

ECOFUTURE independent control logic and intellectual property protection, the system control is more stable and smooth, the electronic control hardware of the unit conforms to explosion-proof, and it is safer when powered on. English touch screen display.

### DC motor

explosion-proof brushless DC motor, safety protection class F, protection class IP24, insulation class CLASSI. Compared with ordinary motor, the efficiency is improved by more than 30%; the motor can run continuously and stably in high temperature and high humidity environment, in the range of -40 °C ~ 60 °C.

### Pipeline Electric Heater

Built-in pipeline electric auxiliary heat source to meet the export of European standards of 3KW, under winter cold weather environment, it can effectively maintain the user heating effect constant. The user can set and adjust the electric heating to start and stop according to the change of the ambient temperature.

### Built-in Circulating Pump

adopt CE, Rohs certification of international brands.

### Heat Exchanger

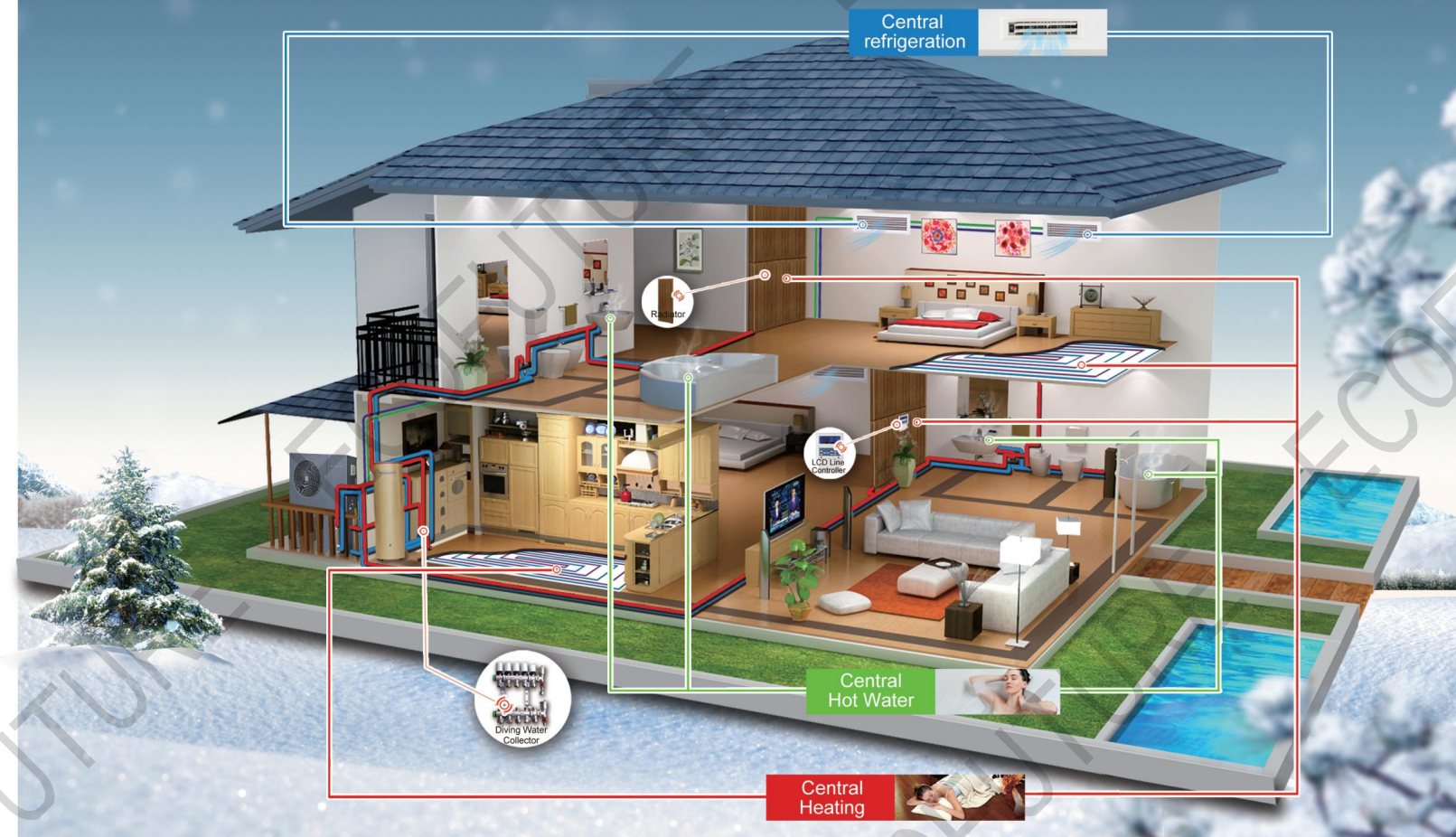
new high efficiency plate heat exchanger, 316 stainless steel corrugated plate. At the same pressure, its heat transfer coefficient is 3-10 times higher than that of other heat exchangers, and the heat recovery rate can be as high as 95%

### Valves

all parts of the unit adopt international famous brands. Such as: SANHUA electronic expansion valve, SANHUA four-way reversing valve. The exhaust valve adopts the export European standard float top type. Automatically discharge the air in the pipeline system to prevent air blockage, improve operating efficiency and reduce pipeline noise and vibration.

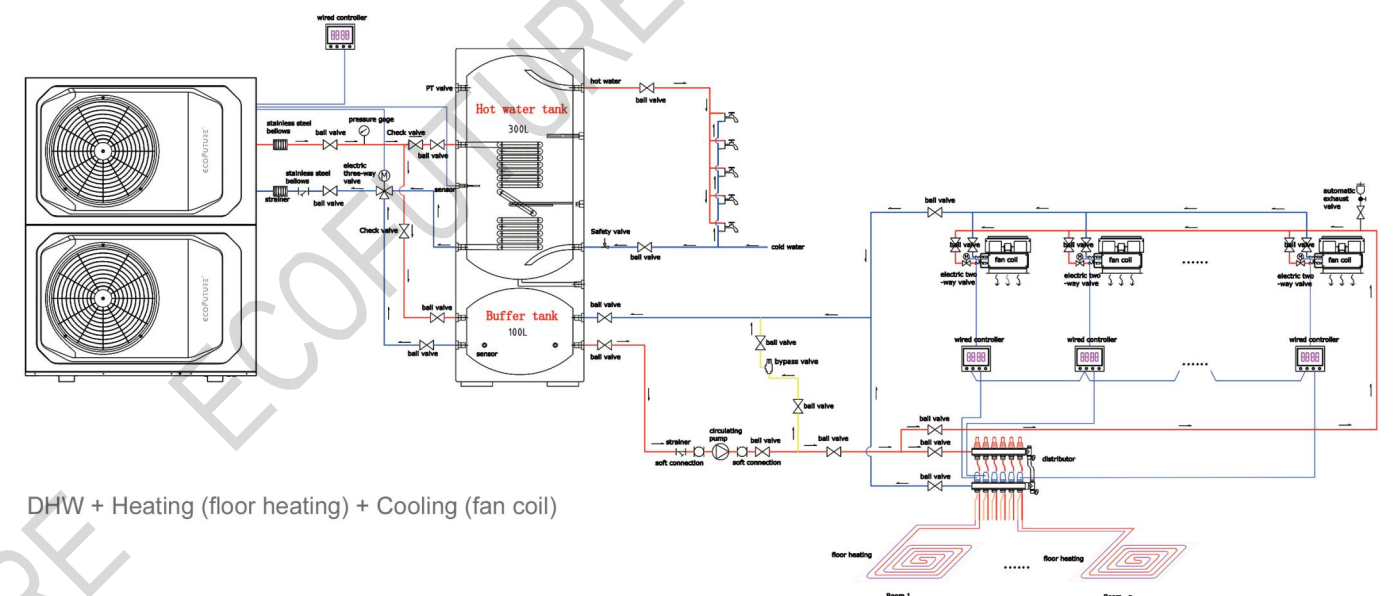
### Expansion tank

European standard gasbag expansion tank, the tank body is made of carbon steel, rust proof baking paint layer; the gasbag is EPDM environmental protection rubber. Automatically adjust the balance pressure in the waterway to avoid the water hammer effect.



## ECOFUTURE Air Source Heat Pump for Heating Cooling & DHW Unique Design:

The main unit and the buffer tank of the dedicated two-in-one tank are independently circulated; the buffer tank and the heating/cooling terminals such as underfloor heating and fan coils are independently circulated. An independent circulation loop is added between the main unit and the dedicated two-in-one tank's domestic water tank to produce hot water, ensuring 365 days of hot water. This system is more energy-saving, has higher energy efficiency, is more stable, has a longer service life, and has clearer fault diagnosis.



### WATER CYCLE

All water cycle circuits are in copper instead of PPR pipe, which make the unit with a longer service life.



### DEFROSTING

The use of pressure control defrosting logic makes a smarter defrosting process.



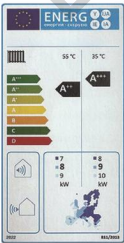
### WATER SPRAY

When it's very hot outside in summer, water spray makes a strong cooling effect with less energy consumption.

# R290 DC Inverter High-End 5G Cloud Intelligent Integrated Heat Pump for Heating Cooling & DHW

## Technological Appearance

- Patented technological appearance: high-end, high-strength, strong sensory impact
- Double-layer sheet metal, double sound insulation and noise reduction "low noise" "high efficiency"
- Aerospace-grade double hot-dip galvanized steel, ensuring product with high strength, durability, and stability



## Excellent Performance

**Quiet noise reduction:** 8 core links use shock absorption, cotton or airflow optimization design; multiple noise reduction technologies to create a quality quiet environment.

**Grille design:** CFD simulation technology for air outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

**Safety protection:** Multiple safety protection devices, such as overload protection, low voltage protection, etc., to ensure safe operation of the unit.

The control panel of this device can display the power and COP values, making it more intelligent and easier to understand the excellent quality of the device. The control system has two special energy-saving functions: one is that the combination of heat pump and photo-voltaic system can automatically switch between using stored energy and grid power. The other function is it will enable significant improvements in electric power reliability and quality through the reduction of peak power demand. These functions are designed to save electricity and reduce costs for users.

To reduce environmental carbon emissions and curb global warming, ECOFUTURE has developed the R290 air source heat pump. R290 refrigerant is an environmentally friendly and high-temperature refrigerant, with a maximum outlet water temperature of 75~80℃ (generally R410A and R32 have an outlet water temperature of 55~60℃). This solves the problem of insufficient heating for some old radiators, especially in environments requiring high heating temperatures, providing a level of comfort that general machines cannot achieve. This product uses anti-corrosion electrical components. R290 refrigerant has many advantages, such as low carbon emissions and high efficiency, and is recognized as the most promising refrigerant in the industry, helping to reduce carbon emissions and achieve global carbon neutrality goals.



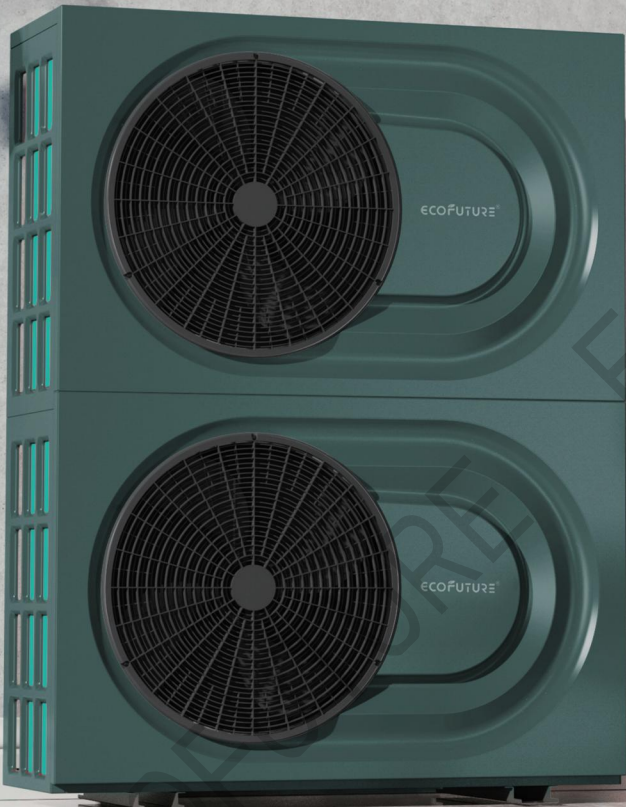
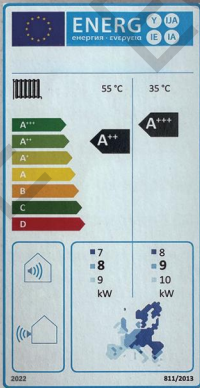
R290 "TRANSFORMER" HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING & DHW

| Outdoor unit model name       |                   | 6KW<br>JHL-006X/<br>C2E1R9-A | 12KW<br>JHL-012X/<br>C2E1R9-A | 12KW<br>JHL-012X/<br>C2E2R9-A | 12KW<br>JHL-012X/<br>D2E1R9-A | 12KW<br>JHL-012X/<br>D2E2R9-A | 18KW<br>JHL-018X/<br>C2E1R9-A | 18KW<br>JHL-018X/<br>C2E2R9-A | 18KW<br>JHL-018X/<br>D2E1R9-A | 18KW<br>JHL-018X/<br>D2E2R9-A |
|-------------------------------|-------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply                  |                   | 220~240V/50Hz                | 220~240V/50Hz                 | 380~415V/3N~50Hz              | 220~240V/50Hz                 | 380~415V/3N~50Hz              | 220~240V/50Hz                 | 380~415V/3N~50Hz              | 220~240V/50Hz                 | 380~415V/3N~50Hz              |
| Heating <sup>1</sup>          | Capacity          | kW                           | 2.95~7.55                     | 4.50~13.85                    | 4.50~13.85                    | 4.50~13.85                    | 4.50~13.85                    | 7.75~21.05                    | 7.75~21.05                    | 7.75~21.05                    |
|                               | Input Power       | kW                           | 0.55~1.78                     | 0.86~3.23                     | 0.86~3.33                     | 0.86~3.23                     | 0.86~3.33                     | 1.55~5.55                     | 1.55~5.55                     | 1.55~5.55                     |
|                               | Input Current     | A                            | 2.50~8.09                     | 3.95~14.65                    | 1.35~5.05                     | 3.95~14.65                    | 1.35~5.05                     | 7.06~25.25                    | 2.85~8.45                     | 7.06~25.25                    |
| Heating <sup>2</sup>          | Capacity          | kW                           | 2.75~7.15                     | 4.25~12.85                    | 3.95~12.85                    | 4.25~12.85                    | 3.95~12.85                    | 7.15~20.15                    | 7.15~20.15                    | 7.15~20.15                    |
|                               | Input Power       | kW                           | 0.95~2.61                     | 1.45~4.65                     | 1.45~4.65                     | 1.45~4.65                     | 1.45~4.65                     | 2.45~6.85                     | 2.45~6.85                     | 2.45~6.85                     |
|                               | Input Current     | A                            | 4.32~11.85                    | 6.59~21.15                    | 2.25~7.15                     | 6.59~21.15                    | 2.25~7.15                     | 11.15~31.05                   | 3.75~10.45                    | 11.15~31.05                   |
| Cooling                       | Capacity          | kW                           | 1.45~5.55                     | 3.95~11.05                    | 3.95~11.05                    | 3.95~11.05                    | 3.95~11.05                    | 5.85~16.55                    | 5.85~16.55                    | 5.85~16.55                    |
|                               | Input Power       | kW                           | 0.43~2.05                     | 1.25~4.25                     | 1.25~4.25                     | 1.25~4.25                     | 1.25~4.25                     | 1.95~6.35                     | 1.95~6.35                     | 1.95~6.35                     |
|                               | Input Current     | A                            | 1.95~9.35                     | 5.65~19.55                    | 1.85~6.55                     | 5.65~19.55                    | 1.85~6.55                     | 8.55~28.8                     | 2.95~10.15                    | 8.55~28.8                     |
| ERP Level (35℃)               | /                 | A+++                         | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          |
| ERP Level (55℃)               | /                 | A++                          | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           |
| Max. Input Power              | kW                | 3.10                         | 5.10                          | 5.10                          | 5.10                          | 5.10                          | 7.50                          | 9.00                          | 7.50                          | 9.00                          |
| Max Input Current             | A                 | 14.1                         | 23.2                          | 9.5                           | 23.2                          | 9.5                           | 34.0                          | 15.5                          | 34.0                          | 15.5                          |
| Refrigerant Type/Charge/GWP   | .../kg            | R290/0.55/3                  | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/1.4/3                    |
| CO <sub>2</sub> Equivalent    | /                 | 0.0017t                      | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0042t                       | 0.0042t                       | 0.0042t                       | 0.0042t                       |
| Operation Pressure(Low Side)  | MPa               | 0.8                          | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           |
| Operation Pressure(High Side) | MPa               | 3.0                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Maximum Allowable Pressure    | MPa               | 3.0                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Electrical Shockproof         | /                 | I                            | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             |
| IP Class                      | /                 | IPX4                         | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          |
| Max. Outlet Water Temp.       | ℃                 | 75                           | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            |
| Operating Ambient Temperature | ℃                 | -25~45                       | -25~45                        | -25~45                        | -30~45                        | -30~45                        | -25~45                        | -25~45                        | -30~45                        | -30~45                        |
| Water Piping Connections      | inch              | G1                           | G1                            | G1                            | G1                            | G1                            | G1-1/4                        | G1-1/4                        | G1-1/4                        | G1-1/4                        |
| Rated Water Flow              | m <sup>3</sup> /h | 1.1                          | 2.1                           | 2.1                           | 2.1                           | 2.1                           | 3.1                           | 3.1                           | 3.1                           | 3.1                           |
| Water Pressure Drop           | kPa               | 20                           | 30                            | 30                            | 30                            | 30                            | 56                            | 56                            | 56                            | 56                            |
| Min/Max water pressure        | MPa               | 0.1/0.3                      | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       |
| Noise Level                   | dB(A)             | 48                           | 52                            | 52                            | 52                            | 52                            | 56                            | 56                            | 56                            | 56                            |
| Compressor                    | Type              | HIGHLY                       | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 |
| outdoor fan                   | Motor type        | DC fan                       |                               |                               | DC fan                        | DC fan                        | DC fan                        |                               | DC fan                        | DC fan                        |
|                               | Number of fans    | 1                            | 1                             | 1                             | 1                             | 1                             | 2                             | 2                             | 2                             | 2                             |
| Net Dimensions (L×W×H)        | mm                | 1185*442*805                 | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1185*482*1455                 | 1185*482*1455                 | 1185*482*1455                 | 1185*482*1455                 |
| Packing dimension (L×W×H)     | mm                | 1215*495*940                 | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1215*535*1590                 | 1215*535*1590                 | 1215*535*1590                 | 1215*535*1590                 |
| Net Weight                    | kg                | 120                          | 150                           | 150                           | 150                           | 150                           | 200                           | 200                           | 200                           | 200                           |

Notice: Heating<sup>1</sup>: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃  
Cooling: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃

Heating<sup>2</sup>: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 47℃/55℃

R290 DC Inverter High-End 5G Cloud  
Intelligent Integrated Heat Pump  
for Heating Cooling & DHW



Technological Appearance

- Patented technological appearance: high-end, high-strength, strong sensory impact
- Double-layer sheet metal, double sound insulation and noise reduction "low noise" "high efficiency"
- Aerospace-grade double hot-dip galvanized steel, ensuring product with high strength, durability, and stability

Technological Appearance

- **Quiet noise reduction:** 8 core links use shock absorption, cotton or airflow optimization design; multiple noise reduction technologies to create a quality quiet environment.

- **Grille design:** CFD simulation technology for air

outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

- **Safety protection:** Multiple safety protection devices, such as overload protection, low voltage protection, etc., to ensure safe operation of the unit.

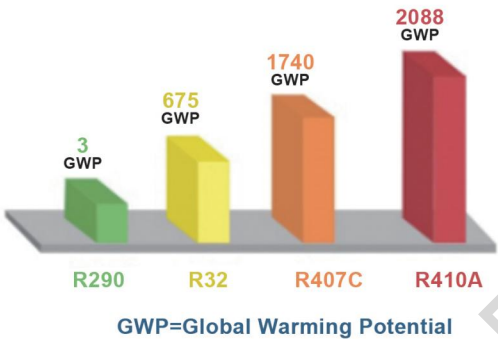
R290 AIR TO WATER HEAT PUMP



R290 is a refrigerant with good heat transmission and higher efficiency



R32 is a new refrigerant star which does no harm to the ozoneosphere.



R290"GOLDEN CUP"HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING & DHW

| Outdoor unit model name       |                    | 6KW<br>JHL-006X/<br>C2E1R9-A | 12KW<br>JHL-012X/<br>C2E1R9-A | 12KW<br>JHL-012X/<br>C2E2R9-A | 12KW<br>JHL-012X/<br>D2E1R9-A | 12KW<br>JHL-012X/<br>D2E2R9-A | 18KW<br>JHL-018X/<br>C2E1R9-A | 18KW<br>JHL-018X/<br>C2E2R9-A | 18KW<br>JHL-018X/<br>D2E1R9-A | 18KW<br>JHL-018X/<br>D2E2R9-A |
|-------------------------------|--------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply                  |                    | 220 ~ 240V/50Hz              | 220 ~ 240V/50Hz               | 380 ~ 415V/3N ~ /50Hz         | 220 ~ 240V/50Hz               | 380 ~ 415V/3N ~ /50Hz         | 220 ~ 240V/50Hz               | 380 ~ 415V/3N ~ /50Hz         | 220 ~ 240V/50Hz               | 380 ~ 415V/3N ~ /50Hz         |
| Capacity                      | kW                 | 2.95 ~ 7.55                  | 4.50 ~ 13.85                  | 4.50 ~ 13.85                  | 4.50 ~ 13.85                  | 4.50 ~ 13.85                  | 7.75 ~ 21.05                  | 7.75 ~ 21.05                  | 7.75 ~ 21.05                  | 7.75 ~ 21.05                  |
| Heating <sup>1</sup>          | Input Power        | kW                           | 0.55 ~ 1.78                   | 0.86 ~ 3.23                   | 0.86 ~ 3.33                   | 0.86 ~ 3.23                   | 1.55 ~ 5.55                   | 1.55 ~ 5.55                   | 1.55 ~ 5.55                   | 1.55 ~ 5.55                   |
|                               | Input Current      | A                            | 2.50 ~ 8.09                   | 3.95 ~ 14.65                  | 1.35 ~ 5.05                   | 3.95 ~ 14.65                  | 1.35 ~ 5.05                   | 7.06 ~ 25.25                  | 2.85 ~ 8.45                   | 7.06 ~ 25.25                  |
|                               | Capacity           | kW                           | 2.75 ~ 7.15                   | 4.25 ~ 12.85                  | 3.95 ~ 12.85                  | 4.25 ~ 12.85                  | 3.95 ~ 12.85                  | 7.15 ~ 20.15                  | 7.15 ~ 20.15                  | 7.15 ~ 20.15                  |
| Heating <sup>2</sup>          | Input Power        | kW                           | 0.95 ~ 2.61                   | 1.45 ~ 4.65                   | 1.45 ~ 4.65                   | 1.45 ~ 4.65                   | 1.45 ~ 4.65                   | 2.45 ~ 6.85                   | 2.45 ~ 6.85                   | 2.45 ~ 6.85                   |
|                               | Input Current      | A                            | 4.32 ~ 11.85                  | 6.59 ~ 21.15                  | 2.25 ~ 7.15                   | 6.59 ~ 21.15                  | 2.25 ~ 7.15                   | 11.15 ~ 31.05                 | 3.75 ~ 10.45                  | 11.15 ~ 31.05                 |
|                               | Capacity           | kW                           | 1.45 ~ 5.55                   | 3.95 ~ 11.05                  | 3.95 ~ 11.05                  | 3.95 ~ 11.05                  | 3.95 ~ 11.05                  | 5.85 ~ 16.55                  | 5.85 ~ 16.55                  | 5.85 ~ 16.55                  |
| Cooling                       | Input Power        | kW                           | 0.43 ~ 2.05                   | 1.25 ~ 4.25                   | 1.25 ~ 4.25                   | 1.25 ~ 4.25                   | 1.25 ~ 4.25                   | 1.95 ~ 6.35                   | 1.95 ~ 6.35                   | 1.95 ~ 6.35                   |
|                               | Input Current      | A                            | 1.95 ~ 9.35                   | 5.65 ~ 19.55                  | 1.85 ~ 6.55                   | 5.65 ~ 19.55                  | 1.85 ~ 6.55                   | 8.55 ~ 28.8                   | 2.95 ~ 10.15                  | 8.55 ~ 28.8                   |
| ERP Level ( 35℃ )             | /                  | A+++                         | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          |
| ERP Level ( 55℃ )             | /                  | A++                          | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           |
| Max. Input Power              | kW                 | 3.10                         | 5.10                          | 5.10                          | 5.10                          | 5.10                          | 7.50                          | 9.00                          | 7.50                          | 9.00                          |
| Max Input Current             | A                  | 14.1                         | 23.2                          | 9.5                           | 23.2                          | 9.5                           | 34.0                          | 15.5                          | 34.0                          | 15.5                          |
| Refrigerant Type/Charge/GWP   | ... / kg           | R290/0.55/3                  | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/1.4/3                    |
| CO <sub>2</sub> Equivalent    | /                  | 0.0017t                      | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0042t                       | 0.0042t                       | 0.0042t                       | 0.0042t                       |
| Operation Pressure(Low Side)  | MPa                | 0.8                          | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           |
| Operation Pressure(High Side) | MPa                | 3.0                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Maximum Allowable Pressure    | MPa                | 3.0                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Electrical Shockproof         | /                  | I                            | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             |
| IP Class                      | /                  | IPX4                         | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          |
| Max. Outlet Water Temp.       | ℃                  | 75                           | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            |
| Operating Ambient Temperature | ℃                  | -25 ~ 45                     | -25 ~ 45                      | -25 ~ 45                      | -30 ~ 45                      | -30 ~ 45                      | -25 ~ 45                      | -25 ~ 45                      | -30 ~ 45                      | -30 ~ 45                      |
| Water Piping Connections      | inch               | G1                           | G1                            | G1                            | G1                            | G1                            | G1-1/4                        | G1-1/4                        | G1-1/4                        | G1-1/4                        |
| Rated Water Flow              | m <sup>3</sup> / h | 1.1                          | 2.1                           | 2.1                           | 2.1                           | 2.1                           | 3.1                           | 3.1                           | 3.1                           | 3.1                           |
| Water Pressure Drop           | kPa                | 20                           | 30                            | 30                            | 30                            | 30                            | 56                            | 56                            | 56                            | 56                            |
| Min/Max water pressure        | MPa                | 0.1/0.3                      | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       |
| Noise Level                   | dB(A)              | 48                           | 52                            | 52                            | 52                            | 52                            | 56                            | 56                            | 56                            | 56                            |
| Compressor                    | Type               | HIGHLY                       | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 |
| outdoor fan                   | Motor type         | DC fan                       |                               |                               | DC fan                        | DC fan                        | DC fan                        |                               | DC fan                        | DC fan                        |
|                               | Number of fans     | 1                            | 1                             | 1                             | 1                             | 1                             | 2                             | 2                             | 2                             | 2                             |
| Net Dimensions ( L×W×H )      | mm                 | 1185*442*805                 | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1185*482*1455                 | 1185*482*1455                 | 1185*482*1455                 | 1185*482*1455                 |
| Packing dimension ( L×W×H )   | mm                 | 1215*495*940                 | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1215*535*1590                 | 1215*535*1590                 | 1215*535*1590                 | 1215*535*1590                 |
| Net Weight                    | kg                 | 120                          | 150                           | 150                           | 150                           | 150                           | 200                           | 200                           | 200                           | 200                           |

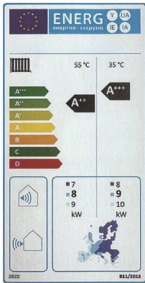
Notice: Heating <sup>1</sup>: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃  
Cooling: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃

Heating <sup>2</sup>: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 47℃/55℃

R290 DC Inverter High-End 5G Cloud  
Intelligent Integrated Heat Pump for  
Heating Cooling & DHW

Technological Appearance

- Double-layer sheet metal, double sound insulation and noise reduction "low noise" "high efficiency"
- Aerospace-grade double hot-dip galvanized steel, ensuring product with high strength, durability, and stability



Excellent Performance

European standard: : A+++ National standard: Super first-class energy efficiency for cooling/heating

Quiet noise reduction: 8 core links use shock absorption, cotton or airflow optimization design; multiple noise reduction technologies to create a quality quiet environment.

Grille design: CFD simulation technology for air outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

Safety protection: Multiple safety protection devices, such as overload protection, low voltage protection, etc., to ensure safe operation of the unit.



R290 "LOUVER FORM" HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING & DHW

| Outdoor unit model name       |                | 6KW<br>JHL-006X/<br>CZE1R9-A | 12KW<br>JHL-012X/<br>CZE1R9-A | 12KW<br>JHL-012X/<br>CZE2R9-A | 12KW<br>JHL-012X/<br>DZE1R9-A | 12KW<br>JHL-012X/<br>DZE2R9-A | 18KW<br>JHL-018X/<br>CZE1R9-A | 18KW<br>JHL-018X/<br>CZE2R9-A | 18KW<br>JHL-018X/<br>DZE1R9-A | 18KW<br>JHL-018X/<br>DZE2R9-A | 30KW<br>JHL-030X/<br>DZE2R9-A | 40KW<br>JHL-040X/<br>DZE2R9-A | 50KW<br>JHL-050X/<br>DZE2R9-A |
|-------------------------------|----------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply                  |                | 220~240V/50Hz                | 220~240V/50Hz                 | 380~415V/3N~/50Hz             | 220~240V/50Hz                 | 415V/3N~/50Hz                 | 220~240V/50Hz                 | 380~415V/3N~/50Hz             | 220~240V/50Hz                 | 380~415V/3N~/50Hz             | 380~415V/3N~/50Hz             | 380~415V/3N~/50Hz             | 380~415V/3N~/50Hz             |
| Heating 1                     | Capacity       | kW                           | 2.95~7.55                     | 4.50~13.85                    | 4.50~13.85                    | 4.50~13.85                    | 7.75~21.05                    | 7.75~21.05                    | 7.75~21.05                    | 7.75~21.05                    | 15.25~33.05                   | 22.25~44.05                   | 27.25~54.05                   |
|                               | Input Power    | kW                           | 0.55~1.78                     | 0.86~3.23                     | 0.86~3.33                     | 0.86~3.23                     | 0.86~3.33                     | 1.55~5.55                     | 1.55~5.55                     | 1.55~5.55                     | 3.05~9.25                     | 4.45~11.92                    | 5.45~15.08                    |
|                               | Input Current  | A                            | 2.50~8.09                     | 3.95~14.65                    | 1.35~5.05                     | 3.95~14.65                    | 1.35~5.05                     | 7.06~25.25                    | 2.85~8.45                     | 7.06~25.25                    | 2.85~8.45                     | 4.85~14.15                    | 6.76~18.15                    |
| Heating 2                     | Capacity       | kW                           | 2.75~7.15                     | 4.25~12.85                    | 3.95~12.85                    | 4.25~12.85                    | 3.95~12.85                    | 7.15~20.15                    | 7.15~20.15                    | 7.15~20.15                    | 15.25~33.05                   | 22.25~44.05                   | 27.25~54.05                   |
|                               | Input Power    | kW                           | 0.95~2.61                     | 1.45~4.65                     | 1.45~4.65                     | 1.45~4.65                     | 1.45~4.65                     | 2.45~6.85                     | 2.45~6.85                     | 2.45~6.85                     | 5.25~12.25                    | 7.65~16.92                    | 9.35~20.78                    |
|                               | Input Current  | A                            | 4.32~11.85                    | 6.58~21.15                    | 2.25~7.15                     | 6.58~21.15                    | 2.25~7.15                     | 11.15~31.05                   | 3.75~10.45                    | 11.15~31.05                   | 3.75~10.45                    | 7.97~18.61                    | 11.76~25.75                   |
| Cooling                       | Capacity       | kW                           | 1.45~5.55                     | 3.95~11.05                    | 3.95~11.05                    | 3.95~11.05                    | 3.95~11.05                    | 5.85~16.55                    | 5.85~16.55                    | 5.85~16.55                    | 13.85~30.55                   | 18.85~35.55                   | 18.85~35.55                   |
|                               | Input Power    | kW                           | 0.43~2.05                     | 1.25~4.25                     | 1.25~4.25                     | 1.25~4.25                     | 1.25~4.25                     | 1.95~6.35                     | 1.95~6.35                     | 1.95~6.35                     | 3.39~9.35                     | 4.39~11.75                    | 5.26~13.75                    |
|                               | Input Current  | A                            | 1.95~9.35                     | 5.65~19.55                    | 1.85~6.55                     | 5.65~19.55                    | 1.85~6.55                     | 8.55~28.8                     | 2.95~10.15                    | 8.55~28.8                     | 2.95~10.15                    | 6.67~17.85                    | 7.95~20.89                    |
| ERP Level (35°C)              |                | /                            | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          | A+++                          |
| ERP Level (55°C)              |                | /                            | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           | A++                           |
| Max. Input Power              |                | kW                           | 3.10                          | 5.10                          | 5.10                          | 5.10                          | 5.10                          | 7.50                          | 9.00                          | 7.50                          | 15.00                         | 20.00                         | 25.00                         |
| Max Input Current             |                | A                            | 14.1                          | 23.2                          | 9.5                           | 23.2                          | 9.5                           | 34.0                          | 15.5                          | 34.0                          | 15.5                          | 30.3                          | 37.9                          |
| Refrigerant Type/Charge/GWP   |                | ... / kg                     | R290/0.55/3                   | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/0.9/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/1.4/3                    | R290/3.3/3                    | R290/4.4/3                    | R290/5.3/3                    |
| CO <sub>2</sub> Equivalent    |                | /                            | 0.0017t                       | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0027t                       | 0.0042t                       | 0.0042t                       | 0.0042t                       | 0.0099t                       | 0.0132t                       | 0.0159t                       |
| Operation Pressure(Low Side)  |                | MPa                          | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           | 0.8                           |
| Operation Pressure(High Side) |                | MPa                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Maximum Allowable Pressure    |                | MPa                          | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           | 3.0                           |
| Electrical Shockproof         |                | /                            | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             | I                             |
| IP Class                      |                | /                            | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          | IPX4                          |
| Max. Outlet Water Temp.       |                | °C                           | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            | 75                            |
| Operating Ambient Temperature |                | °C                           | -25~45                        | -25~45                        | -25~45                        | -30~45                        | -30~45                        | -25~45                        | -25~45                        | -30~45                        | -30~45                        | -25~45                        | -25~45                        |
| Water Piping Connections      |                | inch                         | G1                            | G1                            | G1                            | G1                            | G1                            | G1-1/4                        | G1-1/4                        | G1-1/4                        | G1-1/2                        | G1-1/2                        | G2                            |
| Rated Water Flow              |                | m <sup>3</sup> / h           | 1.1                           | 2.1                           | 2.1                           | 2.1                           | 2.1                           | 3.1                           | 3.1                           | 3.1                           | 5.2                           | 6                             | 8.6                           |
| Water Pressure Drop           |                | kPa                          | 20                            | 30                            | 30                            | 30                            | 30                            | 56                            | 56                            | 56                            | 65                            | 75                            | 95                            |
| Min/Max water pressure        |                | MPa                          | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       | 0.1/0.3                       |
| Noise Level                   |                | dB(A)                        | 48                            | 52                            | 52                            | 52                            | 52                            | 56                            | 56                            | 56                            | 63                            | 65                            | 69                            |
| Compressor                    |                | Type                         | HIGHLY                        | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 | HIGHLY                        | HIGHLY                        | Panasonic EVI                 | Panasonic EVI                 | Hitachi EVI                   | Hitachi EVI                   |
| outdoor fan                   | Motor type     |                              | DC fan                        |                               |                               | DC fan                        | DC fan                        | DC fan                        |                               | DC fan                        | DC fan                        | DC fan                        |                               |
|                               | Number of fans |                              | 1                             | 1                             | 1                             | 1                             | 1                             | 2                             | 2                             | 2                             | 2                             | 2                             | 1                             |
| Net Dimensions (L×W×H)        |                | mm                           | 1185*442*805                  | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1285*482*905                  | 1185*482*1455                 | 1185*482*1455                 | 1185*482*1455                 | 1440*630*1860                 | 1440*630*1860                 | 1150*1150*2050                |
| Packing dimension (L×W×H)     |                | mm                           | 1215*495*940                  | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1315*535*1040                 | 1215*535*1590                 | 1215*535*1590                 | 1215*535*1590                 | 1470*630*2000                 | 1470*630*2000                 | 1200*1200*2200                |
| Net Weight                    |                | kg                           | 120                           | 150                           | 150                           | 150                           | 150                           | 200                           | 200                           | 200                           | 300                           | 340                           | 500                           |

Notice: Heating 1: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 30°C/35°C  
Cooling: Ambient Temp 35°C/24°C (DB/WB) .Water-in/out Temp 12°C/7°C  
Heating 2: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 47°C/55°C

## R32 DC Inverter High-End 5G Cloud Intelligent Integrated Heat Pump for Heating Cooling & DHW



## Technological Appearance

- Patented technological appearance: high-end, high-strength, strong sensory impact
- Double-layer sheet metal, double sound insulation and noise reduction "low noise" "high efficiency"
- Aerospace-grade double hot-dip galvanized steel, ensuring product with high strength, durability, and stability

## Excellent Performance

**European standard:** 8 core links use shock absorption, cotton or airflow optimization design; multiple noise reduction technologies to create a quality quiet environment.

**Grille Design:** CFD simulation technology for air outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

**Safety Protection:** Multiple safety protection devices, such as overload protection, low voltage protection, etc., to ensure safe operation of the unit.



## R32 "TRANSFORMER" &amp; "GOLDEN CUP" HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING &amp; DHW

| Outdoor unit model name        |                     |    | 8kW                   |  | 10kW                  |  | 12kW                  |  | 14kW                  |  | 16kW                  |  | 20kW                  |  | 22kW                  |  | 26kW                  |  | 32kW                  |  | 36kW                  |  |        |  |      |  |
|--------------------------------|---------------------|----|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|--------|--|------|--|
|                                |                     |    | JHL-030X/<br>D2E1R3-A |  | JHL-040X/<br>D2E1R3-A |  | JHL-050X/<br>D2E1R3-A |  | JHL-050X/<br>D2E1R3-B |  | JHL-060X/<br>D2E1R3-A |  | JHL-080X/<br>D2E1R3-B |  | JHL-080X/<br>D2E2R3-A |  | JHL-100X/<br>D2E2R3-A |  | JHL-120X/<br>D2E2R3-A |  | JHL-150X/<br>D2E2R3-A |  |        |  |      |  |
| Power supply                   |                     |    | 220-240/1/50          |  | 220-240/1/50          |  | 220-240/1/50          |  | 220-240/1/50          |  | 220-240/1/50          |  | 220-240/1/50          |  | 380-415/3/50          |  | 380-415/3/50          |  | 380-415/3/50          |  | 380-415/3/50          |  |        |  |      |  |
| heating 1                      | Capacity            | kw | 8.3(3.31-8.51)        |  | 9.5(3.81-10.25)       |  | 12.1(5.58-12.52)      |  | 14.5(5.92-14.61)      |  | 15.9(6.43-16.52)      |  | 19.5(7.49-19.81)      |  | 22.5(8.08-23.52)      |  | 26.5(9.51-26.51)      |  | 32(12.81-33.01)       |  | 36(14.81-38.51)       |  |        |  |      |  |
|                                | Rated input         | kw | 1.75                  |  | 2.05                  |  | 2.55                  |  | 3.15                  |  | 3.53                  |  | 4.35                  |  | 4.89                  |  | 5.89                  |  | 7.09                  |  | 8.07                  |  |        |  |      |  |
|                                | COP                 |    | 4.74                  |  | 4.63                  |  | 4.75                  |  | 4.6                   |  | 4.5                   |  | 4.48                  |  | 4.6                   |  | 4.5                   |  | 4.51                  |  | 4.46                  |  |        |  |      |  |
| heating 2                      | Capacity            | kw | 8.1                   |  | 10                    |  | 12.3                  |  | 14.1                  |  | 16                    |  | 19.4                  |  | 21.8                  |  | 26                    |  | 32                    |  | 36                    |  |        |  |      |  |
|                                | Rated input         | kw | 2.1                   |  | 2.67                  |  | 3.32                  |  | 3.92                  |  | 4.57                  |  | 5.5                   |  | 6.14                  |  | 7.43                  |  | 9.09                  |  | 10.26                 |  |        |  |      |  |
|                                | COP                 |    | 3.85                  |  | 3.75                  |  | 3.7                   |  | 3.6                   |  | 3.5                   |  | 3.53                  |  | 3.55                  |  | 3.5                   |  | 3.52                  |  | 3.51                  |  |        |  |      |  |
| heating'3                      | Capacity            | kw | 7.5                   |  | 9.5                   |  | 11.9                  |  | 13.8                  |  | 16                    |  | 19.3                  |  | 21.2                  |  | 25.5                  |  | 30.72                 |  | 34.56                 |  |        |  |      |  |
|                                | Rated input         | kw | 2.36                  |  | 3.06                  |  | 3.9                   |  | 4.68                  |  | 5.61                  |  | 6.89                  |  | 7.26                  |  | 8.94                  |  | 10.74                 |  | 12.17                 |  |        |  |      |  |
|                                | COP                 |    | 3.18                  |  | 3.1                   |  | 3.05                  |  | 2.95                  |  | 2.85                  |  | 2.8                   |  | 2.92                  |  | 2.85                  |  | 2.86                  |  | 2.84                  |  |        |  |      |  |
| cooling 1                      | Capacity            | kw | 8.3                   |  | 9.9                   |  | 12                    |  | 13.5                  |  | 14.9                  |  | 19.1                  |  | 20.2                  |  | 22.2                  |  | 26                    |  | 30                    |  |        |  |      |  |
|                                | Rated input         | kw | 2.24                  |  | 2.73                  |  | 3.28                  |  | 3.75                  |  | 4.2                   |  | 5.46                  |  | 5.77                  |  | 6.53                  |  | 7.62                  |  | 8.69                  |  |        |  |      |  |
|                                | COP                 |    | 3.75                  |  | 3.65                  |  | 3.65                  |  | 3.6                   |  | 3.55                  |  | 3.5                   |  | 3.5                   |  | 3.4                   |  | 3.41                  |  | 3.45                  |  |        |  |      |  |
| cooling2                       | Capacity            | kw | 7.4                   |  | 8.2                   |  | 11.5                  |  | 12.4                  |  | 14                    |  | 16                    |  | 18                    |  | 20                    |  | 24                    |  | 28                    |  |        |  |      |  |
|                                | Rated input         | kw | 2.6                   |  | 2.9                   |  | 4.2                   |  | 4.77                  |  | 5.5                   |  | 6.37                  |  | 7.1                   |  | 8                     |  | 9.38                  |  | 10.68                 |  |        |  |      |  |
|                                | COP                 |    | 2.84                  |  | 2.83                  |  | 2.73                  |  | 2.6                   |  | 2.55                  |  | 2.51                  |  | 2.54                  |  | 2.5                   |  | 2.56                  |  | 2.62                  |  |        |  |      |  |
| SCOP                           | Water outlet at 35℃ |    |                       |  |                       |  |                       |  |                       |  |                       |  | A+++                  |  |                       |  |                       |  |                       |  |                       |  |        |  | A+++ |  |
|                                | Water outlet at 55℃ |    |                       |  |                       |  |                       |  |                       |  |                       |  | A++                   |  |                       |  |                       |  |                       |  |                       |  |        |  | A++  |  |
| Sound power Level              | dB                  |    | 49                    |  | 52                    |  | 53                    |  | 55                    |  | 56                    |  | 58                    |  | 59                    |  | 60                    |  | 63                    |  | 65                    |  |        |  |      |  |
| Compressor                     | Type                |    | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  | Panasonic             |  |        |  |      |  |
| outdoor fan/                   | Motor type          |    | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  | DC Fan                |  |        |  |      |  |
|                                | Number of fans      |    | 1                     |  | 1                     |  | 1                     |  | 1                     |  | 1                     |  | 1                     |  | 2                     |  | 2                     |  | 2                     |  | 2                     |  |        |  |      |  |
| Refrigerant                    |                     |    | R32 1.4kg             |  | R32 1.4kg             |  | R32 2.1kg             |  | R32 2.1kg             |  | R32 2.1kg             |  | R32 2.1kg             |  | R32 3.4kg             |  | R32 3.4kg             |  | R32 3.6kg             |  | R32 4.4kg             |  |        |  |      |  |
| Unit dimension(W*H*D)          | mm                  |    | 1185*480*840          |  | 1185*480*840          |  | 1285*480*930          |  | 1285*480*930          |  | 1285*480*930          |  | 1285*480*930          |  | 1185*480*1557         |  | 1185*480*1557         |  | 1185*480*1557         |  | 1285*530*1650         |  |        |  |      |  |
| Packing dimension(W*H*D)       | mm                  |    | 1225*550*955          |  | 1225*550*955          |  | 1325*550*1070         |  | 1325*550*1070         |  | 1325*550*1070         |  | 1325*550*1070         |  | 1275*550*1720         |  | 1185*480*1557         |  | 1185*480*1557         |  | 1325*595*1800         |  |        |  |      |  |
| Net/Gross weight               | kg                  |    | 100/125               |  | 100/125               |  | 125/150               |  | 125/150               |  | 125/150               |  | 125/150               |  | 125/150               |  | 190/210               |  | 190/210               |  | 205/225               |  |        |  |      |  |
| Outdoor air temperature range  | Cooling             | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  | +7~43  |  |      |  |
|                                | Heating             | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  | -30~35 |  |      |  |
|                                | DHW                 | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  |                       |  | -30~43 |  |      |  |
| Water side heat exchanger      |                     |    |                       |  |                       |  |                       |  |                       |  |                       |  | Plate type            |  |                       |  |                       |  |                       |  |                       |  | shell  |  |      |  |
| Water outlet temperature range | Cooling             | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  | 7~30                  |  |                       |  |                       |  |                       |  |                       |  | 7~30   |  |      |  |
|                                | Heating             | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  | 12~60                 |  |                       |  |                       |  |                       |  |                       |  | 12~60  |  |      |  |
|                                | DHW                 | ℃  |                       |  |                       |  |                       |  |                       |  |                       |  | 10~60                 |  |                       |  |                       |  |                       |  |                       |  | 10~60  |  |      |  |

## R290"GOLDEN CUP"HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING &amp; DHW

| Outdoor unit model name        |                     |    | 12kW                  | 14kW                  | 16kW                  | 20kW                  | 22kW                  | 26kW                  | 32kW                  | 36kW                  |
|--------------------------------|---------------------|----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                |                     |    | JHL-050X/<br>D2E2R3-A | JHL-050X/<br>D2E2R3-B | JHL-060X/<br>D2E2R3-A | JHL-080X/<br>D2E2R3-B | JHL-080X/<br>D2E2R3-A | JHL-100X/<br>D2E2R3-A | JHL-120X/<br>D2E2R3-A | JHL-150X/<br>D2E2R3-A |
| Power supply                   |                     |    | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          | 380-415/3/50          |
| heating 1                      | Capacity            | kw | 12.1(5.58-12.52)      | 14.5(5.92-14.61)      | 15.9(6.43-16.52)      | 19.5(7.49-19.81)      | 22.5(8.08-23.52)      | 26.5(9.51-26.51)      | 32(12.81-33.51)       | 36(14.81-38.51)       |
|                                | Rated input         | kw | 2.44                  | 3.15                  | 3.53                  | 4.35                  | 4.89                  | 5.89                  | 7.09                  | 8.07                  |
|                                | COP                 |    | 4.95                  | 4.6                   | 4.5                   | 4.48                  | 4.6                   | 4.5                   | 4.51                  | 4.46                  |
| heating 2                      | Capacity            | kw | 12.3                  | 14.1                  | 16                    | 19.4                  | 21.8                  | 26                    | 32                    | 36                    |
|                                | Rated input         | kw | 3.32                  | 3.92                  | 4.57                  | 5.5                   | 6.14                  | 7.43                  | 9.09                  | 10.26                 |
|                                | COP                 |    | 3.7                   | 3.6                   | 3.5                   | 3.53                  | 3.55                  | 3.5                   | 3.52                  | 3.51                  |
| heating'3                      | Capacity            | kw | 11.9                  | 13.8                  | 16                    | 19.3                  | 21.2                  | 25.5                  | 30.72                 | 34.56                 |
|                                | Rated input         | kw | 3.9                   | 4.68                  | 5.61                  | 6.89                  | 7.26                  | 8.94                  | 10.74                 | 12.17                 |
|                                | COP                 |    | 3.05                  | 2.95                  | 2.85                  | 2.8                   | 2.92                  | 2.85                  | 2.86                  | 2.84                  |
| cooling 1                      | Capacity            | kw | 12                    | 13.5                  | 14.9                  | 18.1                  | 20.2                  | 22.2                  | 26                    | 30                    |
|                                | Rated input         | kw | 3.28                  | 3.75                  | 4.2                   | 5.17                  | 5.77                  | 6.53                  | 7.62                  | 8.69                  |
|                                | COP                 |    | 3.65                  | 3.6                   | 3.55                  | 3.5                   | 3.5                   | 3.4                   | 3.41                  | 3.45                  |
| cooling2                       | Capacity            | kw | 11.5                  | 12.4                  | 14                    | 16                    | 18                    | 20                    | 24                    | 28                    |
|                                | Rated input         | kw | 4.2                   | 4.77                  | 5.5                   | 6.37                  | 7.1                   | 8                     | 9.38                  | 10.68                 |
|                                | COP                 |    | 2.73                  | 2.6                   | 2.55                  | 2.51                  | 2.54                  | 2.5                   | 2.56                  | 2.62                  |
| SCOP                           | Water outlet at 35℃ |    |                       |                       |                       | A+++                  |                       |                       |                       | A+++                  |
|                                | Water outlet at 55℃ |    |                       |                       |                       | A++                   |                       |                       |                       | A++                   |
| Sound power Level              | dB                  |    | 53                    | 55                    | 56                    | 58                    | 59                    | 60                    | 63                    | 65                    |
| Compressor                     | Type                |    | Panasonic             | Panasonic             | Panasonic             | Panasonic             | Panasonic             | Panasonic             | Panasonic             | Panasonic             |
| outdoor tan/                   | Motor type          |    | DC Fan                | DC Fan                | DC Fan                | DC Fan                | DC Fan                | DC Fan                | DC Fan                | DC Fan                |
|                                | Number of fans      |    | 1                     | 1                     | 1                     | 1                     | 2                     | 2                     | 2                     | 2                     |
| Refrigerant                    |                     |    | R32 2.1kg             | R32 2.1kg             | R32 2.1kg             | R32 2.1kg             | R32 3.4kg             | R32 3.4kg             | R32 3.6kg             | R32 4.4kg             |
| Unit dimension(W*H*D)          | mm                  |    | 1285*480*930          | 1285*480*930          | 1285*480*930          | 1285*480*930          | 1185*480*1557         | 1185*480*1557         | 1185*480*1557         | 1285*530*1650         |
| Packing dimension (W*H*D)      | mm                  |    | 1325*550*1070         | 1325*550*1070         | 1325*550*1070         | 1325*550*1070         | 1225*550*1720         | 1185*480*1557         | 1185*480*1557         | 1325*595*1800         |
| Net/Gross weight               | kg                  |    | 125/150               | 125/150               | 125/150               | 125/150               | 190/210               | 190/210               | 205/225               | 250/270               |
| Outdoor air temperature range  | Cooling             | ℃  |                       |                       |                       | +7～43                 |                       |                       |                       | +7～43                 |
|                                | Heating             | ℃  |                       |                       |                       | -30～35                |                       |                       |                       | -30～35                |
|                                | DHW                 | ℃  |                       |                       |                       | -30～43                |                       |                       |                       | -30～43                |
| Water side heat exchanger      |                     |    |                       |                       |                       | Plate type            |                       |                       |                       | shell                 |
| Water outlet temperature range | Cooling             | ℃  |                       |                       |                       | 7～30                  |                       |                       |                       | 7～30                  |
|                                | Heating             | ℃  |                       |                       |                       | 12～60                 |                       |                       |                       | 12～60                 |
|                                | DHW                 | ℃  |                       |                       |                       | 10～60                 |                       |                       |                       | 10～60                 |

Note: 1. Heating 1: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 30°C/35°C  
 3. Heating 3: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 50°C/55°C  
 5. Cooling 2: Ambient Temp 35°C/24°C (DB/WB) .Water-in/out Temp 12°C/7°C  
 2. Heating 2: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 40°C/45°C  
 4. Cooling 1: Ambient Temp 35°C/24°C (DB/WB) .Water-in/out Temp 23°C/18°C  
 6. Test standard: EN12102-1



The Jiadele heat pump uses an asa plastic shell, which has excellent impact strength, dyeability, chemical resistance and electrical insulation properties, and is a material with good corrosion resistance, dimensional stability, high mechanical strength, low water absorption, heat resistance and non-deformation . ASA boards can also be molded into any shape to meet customer customized needs.

R32 "LOUVER FORM" & "THERMOFORM" HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING & DHW

| Outdoor unit model name        |                |    | 8kW               | 10kW              | 12kW              | 14kW              | 16kW              | 20kW              | 22kW              | 26kW              | 32kW              | 36kW              | 70kW              |
|--------------------------------|----------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                |                |    | JHL-030X/D2E1R3-A | JHL-040X/D2E1R3-A | JHL-050X/D2E1R3-A | JHL-050X/D2E1R3-B | JHL-060X/D2E1R3-A | JHL-080X/D2E1R3-B | JHL-080X/D2E2R3-A | JHL-100X/D2E2R3-A | JHL-120X/D2E2R3-A | JHL-150X/D2E2R3-A | JHL-250X/D2E2R3-A |
| Power supply                   |                |    | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      |
| heating 1                      | Capacity       | kw | 8.3(3.31-8.51)    | 9.5(3.81-10.25)   | 12.1(5.58-12.52)  | 14.5(5.92-14.61)  | 15.9(6.43-16.52)  | 19.5(7.49-19.81)  | 22.5(8.08-23.52)  | 26.5(9.51-26.51)  | 32(12.81-33.51)   | 36(14.81-38.51)   | 70(28.81-72.51)   |
|                                | Rated input    | kw | 1.75              | 2.05              | 2.55              | 3.15              | 3.53              | 4.35              | 4.89              | 5.89              | 7.09              | 8.07              | 15.69             |
|                                | COP            |    | 4.74              | 4.63              | 4.75              | 4.6               | 4.5               | 4.48              | 4.6               | 4.5               | 4.51              | 4.46              | 4.46              |
| heating 2                      | Capacity       | kw | 8.1               | 10                | 12.3              | 14.1              | 16                | 19.4              | 21.8              | 26                | 32                | 36                | 70                |
|                                | Rated input    | kw | 2.1               | 2.67              | 3.32              | 3.92              | 4.57              | 5.5               | 6.14              | 7.43              | 9.09              | 10.26             | 20.25             |
|                                | COP            |    | 3.85              | 3.75              | 3.7               | 3.6               | 3.5               | 3.53              | 3.55              | 3.5               | 3.52              | 3.51              | 3.46              |
| heating*3                      | Capacity       | kw | 7.5               | 9.5               | 11.9              | 13.8              | 16                | 19.3              | 21.2              | 25.5              | 30.72             | 34.56             | 67.21             |
|                                | Rated input    | kw | 2.36              | 3.06              | 3.9               | 4.68              | 5.61              | 6.89              | 7.26              | 8.94              | 10.74             | 12.17             | 23.92             |
|                                | COP            |    | 3.18              | 3.1               | 3.05              | 2.95              | 2.85              | 2.8               | 2.92              | 2.85              | 2.86              | 2.84              | 2.81              |
| cooling 1                      | Capacity       | kw | 8.3               | 9.9               | 12                | 13.5              | 14.9              | 19.1              | 20.2              | 22.2              | 26                | 30                | 60                |
|                                | Rated input    | kw | 2.24              | 2.73              | 3.28              | 3.75              | 4.2               | 5.46              | 5.77              | 6.53              | 7.62              | 8.69              | 17.34             |
|                                | COP            |    | 3.75              | 3.65              | 3.65              | 3.6               | 3.55              | 3.5               | 3.5               | 3.4               | 3.41              | 3.45              | 3.46              |
| cooling2                       | Capacity       | kw | 7.4               | 8.2               | 11.5              | 12.4              | 14                | 16                | 18                | 20                | 24                | 28                | 55                |
|                                | Rated input    | kw | 2.6               | 2.9               | 4.2               | 4.77              | 5.5               | 6.37              | 7.1               | 8                 | 9.38              | 10.68             | 21.65             |
|                                | COP            |    | 2.84              | 2.83              | 2.73              | 2.6               | 2.55              | 2.51              | 2.54              | 2.5               | 2.56              | 2.62              | 2.54              |
| SCOP                           |                |    | A+++              |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Sound power Level              |                |    | A++               |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Compressor                     | Type           |    | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Hitachi           |
|                                | Motor type     |    | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            |
| outdoor fan/                   | Number of fans |    | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 | 2                 | 2                 | 2                 | 2                 | 2                 |
|                                | Refrigerant    |    | R32 1.4kg         | R32 1.4kg         | R32 2.1kg         | R32 2.1kg         | R32 2.1kg         | R32 2.1kg         | R32 3.4kg         | R32 3.4kg         | R32 3.6kg         | R32 4.4kg         | R32 7.8kg         |
| Unit dimension(W*H*D)          |                |    | mm                | 1185*480*840      | 1185*480*840      | 1285*480*930      | 1285*480*930      | 1285*480*930      | 1285*480*930      | 1185*480*1557     | 1185*480*1557     | 1285*530*1650     | 1440*630*1860     |
| Packing dimension (W*H*D)      |                |    | mm                | 1225*550*955      | 1225*550*955      | 1325*550*1070     | 1325*550*1070     | 1325*550*1070     | 1325*550*1070     | 1225*550*1720     | 1185*480*1557     | 1185*480*1557     | 1325*595*1800     |
| Net/Gross weight               |                |    | kg                | 100/125           | 100/125           | 125/150           | 125/150           | 125/150           | 125/150           | 190/210           | 190/210           | 205/225           | 320/350           |
| Outdoor air temperature range  | Cooling        | °C | +7~43             |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                | Heating        | °C | -30~35            |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                | DHW            | °C | -30~43            |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Water side heat exchanger      |                |    | Plate type        |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                |                |    | shell             |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Water outlet temperature range | Cooling        | °C | 7~30              |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                | Heating        | °C | 12~60             |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                | DHW            | °C | 10~60             |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |

| Outdoor unit model name        |                |    | 8kW               | 10kW              | 12kW              | 14kW              | 16kW              | 20kW              |
|--------------------------------|----------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                |                |    | JHL-030X/D2E1R3-A | JHL-040X/D2E1R3-A | JHL-050X/D2E2R3-A | JHL-050X/D2E2R3-B | JHL-060X/D2E2R3-A | JHL-080X/D2E2R3-B |
| Power supply                   |                |    | 220-240/1/50      | 220-240/1/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      |
| heating 1                      | Capacity       | kw | 8.3(3.31-8.51)    | 9.5(3.81-10.25)   | 12.1(5.58-12.52)  | 14.5(5.92-14.61)  | 15.9(6.43-16.52)  | 19.5(7.49-19.81)  |
|                                | Rated input    | kw | 1.75              | 2.05              | 2.44              | 3.15              | 3.53              | 4.35              |
|                                | COP            |    | 4.74              | 4.63              | 4.95              | 4.6               | 4.5               | 4.48              |
| heating 2                      | Capacity       | kw | 8.1               | 10                | 12.3              | 14.1              | 16                | 19.4              |
|                                | Rated input    | kw | 2.1               | 2.67              | 3.32              | 3.92              | 4.57              | 5.5               |
|                                | COP            |    | 3.85              | 3.75              | 3.7               | 3.6               | 3.5               | 3.53              |
| heating*3                      | Capacity       | kw | 7.5               | 9.5               | 11.9              | 13.8              | 16                | 19.3              |
|                                | Rated input    | kw | 2.36              | 3.06              | 3.9               | 4.68              | 5.61              | 6.89              |
|                                | COP            |    | 3.18              | 3.1               | 3.05              | 2.95              | 2.85              | 2.8               |
| cooling 1                      | Capacity       | kw | 8.3               | 9.9               | 12                | 13.5              | 14.9              | 18.1              |
|                                | Rated input    | kw | 2.24              | 2.73              | 3.28              | 3.75              | 4.2               | 5.17              |
|                                | COP            |    | 3.75              | 3.65              | 3.65              | 3.6               | 3.55              | 3.5               |
| cooling2                       | Capacity       | kw | 7.4               | 8.2               | 11.5              | 12.4              | 14                | 16                |
|                                | Rated input    | kw | 2.6               | 2.9               | 4.2               | 4.77              | 5.5               | 6.37              |
|                                | COP            |    | 2.84              | 2.83              | 2.73              | 2.6               | 2.55              | 2.51              |
| SCOP                           |                |    | A+++              |                   |                   |                   |                   |                   |
| Sound power Level              |                |    | A++               |                   |                   |                   |                   |                   |
| Compressor                     | Type           |    | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic         |
|                                | Motor type     |    | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            | DC Fan            |
| outdoor fan/                   | Number of fans |    | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |
|                                | Refrigerant    |    | R32 1.4kg         | R32 1.4kg         | R32 2.1kg         | R32 2.1kg         | R32 2.1kg         | R32 2.1kg         |
| Unit dimension(W*H*D)          |                |    | mm                | 1185*480*840      | 1185*480*840      | 1285*480*930      | 1285*480*930      | 1285*480*930      |
| Packing dimension (W*H*D)      |                |    | mm                | 1225*550*955      | 1225*550*955      | 1325*550*1070     | 1325*550*1070     | 1325*550*1070     |
| Net/Gross weight               |                |    | kg                | 100/125           | 100/125           | 125/150           | 125/150           | 125/150           |
| Outdoor air temperature range  | Cooling        | °C | +7~43             |                   |                   |                   |                   |                   |
|                                | Heating        | °C | -30~35            |                   |                   |                   |                   |                   |
|                                | DHW            | °C | -30~43            |                   |                   |                   |                   |                   |
| Water side heat exchanger      |                |    | Plate type        |                   |                   |                   |                   |                   |
|                                |                |    |                   |                   |                   |                   |                   |                   |
| Water outlet temperature range | Cooling        | °C | 7~30              |                   |                   |                   |                   |                   |
|                                | Heating        | °C | 12~60             |                   |                   |                   |                   |                   |
|                                | DHW            | °C | 10~60             |                   |                   |                   |                   |                   |

Note: 1.Heating 1: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 30°C/35°C  
3.Heating 3: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 50°C/55°C  
5.Cooling2: Ambient Temp 35°C/24°C (DB/WB) .Water-in/out Temp 12°C/7°C  
2. Heating 2: Ambient Temp 7°C/6°C (DB/WB) .Water-in/out Temp 40°C/45°C  
4. Cooling1: Ambient Temp 35°C/24°C (DB/WB) .Water-in/out Temp 23°C/18°C  
6. Test standard:EN12102-1

# Photovoltaic Direct-Drive Heat Pump Series

## 1. Innovative Photovoltaic Direct-Drive Technology

The photovoltaic direct-drive heat pump utilizes direct current (DC) generated by solar panels to directly power the DC inverter compressor, achieved through series boost technology. By eliminating the traditional DC-AC-DC conversion process and adopting direct DC-DC conversion, it significantly reduces energy loss (5–10% per conversion cycle). This system requires no inverter, lowering initial investment costs. With a simple plug-and-play setup, it further reduces the overall cost of photovoltaic power generation equipment.

## 2. Efficient and Stable Photovoltaic Control

Equipped with a built-in photovoltaic control module and Maximum Power Point Tracking technology, the system continuously monitors the output voltage of the solar panels and automatically adjusts to the optimal voltage and current values. This ensures that the solar panels consistently operate at their maximum power output under varying light conditions, providing efficient and stable power supply to the inverter compressor of heat pump.

## 3. Dual-Power Input with Intelligent Switching

The heat pump unit supports dual power inputs: AC grid power and DC photovoltaic power. The grid power supplies the fan and water pump, and supplements the compressor when solar energy is insufficient. Photovoltaic power primarily drives the DC inverter compressor. With automatic grid compensation technology, the system dynamically adjusts the grid input ratio based on real-time photovoltaic output. When there is sufficient sunlight, the proportion of grid power input is extremely low (such as only 5% at noon), and the remaining electricity is provided by photovoltaic power generation, saving up to 95% of energy. As sunlight decreases, the grid power ratio gradually increases, ensuring uninterrupted operation even when solar generation approaches zero.

This technology ensures the maximum utilization of photovoltaic power generation while ensuring the normal operation of equipment in the absence of sunlight.

## 4. Multifunctional High-Efficiency Applications

The photovoltaic direct-drive heat pump integrates multiple functions, including heating, cooling, and domestic hot water production. It is recommended for year-round use: heating in winter, cooling in summer, and providing domestic hot water throughout the year. This maximizes the benefits of photovoltaic power generation and enhances overall energy utilization efficiency.



# Photovoltaic Direct-Drive Heat Pump Series



R32 PHOTOVOLTAIC DIRECT-DRIVE HEAT PUMP SERIES

| Outdoor unit model name        |             |    | 8kW               | 10kW              | 12kW              | 14kW              | 16kW              | 20kW              |
|--------------------------------|-------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                |             |    | JHL-030X/D2E1R3-A | JHL-040X/D2E1R3-A | JHL-050X/D2E1R3-A | JHL-050X/D2E1R3-B | JHL-060X/D2E1R3-A | JHL-080X/D2E1R3-B |
| Power supply                   |             |    | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      | 220-240/1/50      |
| heating 1                      | Capacity    | kw | 8.3(3.31-8.51)    | 9.5(3.81-10.25)   | 12.1(5.58-12.52)  | 14.5(5.92-14.61)  | 15.9(6.43-16.52)  | 19.5(7.49-19.81)  |
|                                | Rated input | kw | 1.75              | 2.05              | 2.55              | 3.15              | 3.53              | 4.35              |
|                                | COP         |    | 4.74              | 4.63              | 4.75              | 4.6               | 4.5               | 4.48              |
| heating 2                      | Capacity    | kw | 8.1               | 10                | 12.3              | 14.1              | 16                | 19.4              |
|                                | Rated input | kw | 2.1               | 2.67              | 3.32              | 3.92              | 4.57              | 5.5               |
|                                | COP         |    | 3.85              | 3.75              | 3.7               | 3.6               | 3.5               | 3.53              |
| heating 3                      | Capacity    | kw | 7.5               | 9.5               | 11.9              | 13.8              | 16                | 19.3              |
|                                | Rated input | kw | 2.36              | 3.06              | 3.9               | 4.68              | 5.61              | 6.89              |
|                                | COP         |    | 3.18              | 3.1               | 3.05              | 2.95              | 2.85              | 2.8               |
| cooling 1                      | Capacity    | kw | 8.3               | 9.9               | 12                | 13.5              | 14.9              | 19.1              |
|                                | Rated input | kw | 2.24              | 2.73              | 3.28              | 3.75              | 4.2               | 5.46              |
|                                | COP         |    | 3.75              | 3.65              | 3.65              | 3.6               | 3.55              | 3.5               |
| cooling 2                      | Capacity    | kw | 7.4               | 8.2               | 11.5              | 12.4              | 14                | 16                |
|                                | Rated input | kw | 2.6               | 2.9               | 4.2               | 4.77              | 5.5               | 6.37              |
|                                | COP         |    | 2.84              | 2.83              | 2.73              | 2.6               | 2.55              | 2.51              |
| SCOP                           |             |    | A+++              |                   |                   |                   |                   |                   |
| Sound power Level              |             |    | dB                |                   |                   |                   |                   |                   |
| Compressor                     |             |    | Type              |                   |                   |                   |                   |                   |
| outdoor fan/                   |             |    | Motor type        |                   |                   |                   |                   |                   |
|                                |             |    | Number of fans    |                   |                   |                   |                   |                   |
| Refrigerant                    |             |    | R32 1.4kg         |                   |                   |                   |                   |                   |
| Unit dimension(W*H*D)          |             |    | mm                |                   |                   |                   |                   |                   |
| Packing dimension (W*H*D)      |             |    | mm                |                   |                   |                   |                   |                   |
| Net/Gross weight               |             |    | kg                |                   |                   |                   |                   |                   |
| Outdoor air temperature range  | Cooling     | °C | +7~43             |                   |                   |                   |                   |                   |
|                                | Heating     | °C | -30~35            |                   |                   |                   |                   |                   |
|                                | DHW         | °C | -30~43            |                   |                   |                   |                   |                   |
| Water side heat exchanger      |             |    | Plate type        |                   |                   |                   |                   |                   |
| Water outlet temperature range | Cooling     | °C | 7~30              |                   |                   |                   |                   |                   |
|                                | Heating     | °C | 12~60             |                   |                   |                   |                   |                   |
|                                | DHW         | °C | 10~60             |                   |                   |                   |                   |                   |

# Company profile

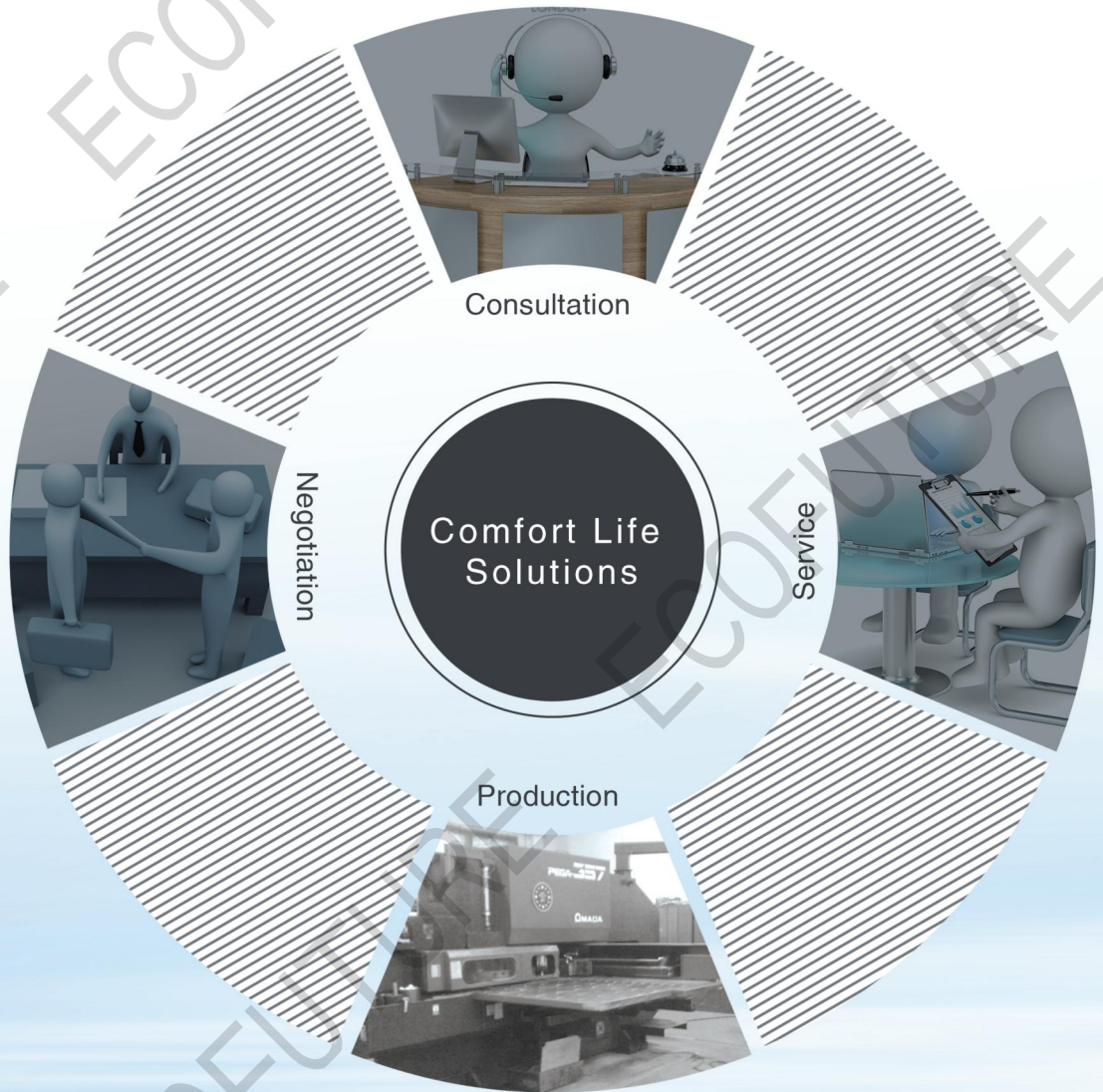
Zhejiang Jiadele Technology Co., Ltd. Established in 2000, who has been focusing on the hot water industry for 26 years. Our company currently has solar water heater business department and air source heat pump business department. Solar Water Heater Department has two advanced production lines, the main products are solar water heaters and solar collectors, annual output of 300,000 sets. Air Source Heat Pump Department specializes in the production of household/ commercial hot water air source heat pumps, northern heating air source heat pumps, household/ commercial swimming pool heat pumps, household/ commercial cooling and heating heat pumps, cooling and Heating and DHW heat pumps, all in one heat pumps etc., annual output of 200,000 sets.

Our company provides solutions for customers in household/ commercial hot water, heating, heating and cooling systems projects, and is a national high-tech enterprise specializing in researching and development, production and marketing of solar water heaters and air source products. Our registered capital is 108 million rmb, the building area is 80,000 square meters, the annual sales value is more than 300 million rmb, 80% products are exported to more than 50 countries in the world. Jiadele foreign trade sales ranked No. 1 in the National Solar Industry from 2024. These years, Jiadele solar water heater department has passed EU mandatory CE certification, EU SolarKeymark12975/12976 certification, USA SRCC certification and Korea KS certification etc. Air Source Heat Pump Department has passed the national compulsory 3C certification, EU mandatory CE certification, EU ROHS certification, Australia SAA certification and other national compulsory certification. And our company obtained ISO-9001:2015 quality management system certification, ISO14001:2015 environmental management system certification and ISO45001:2018 occupational health and safety management system certification.

With the goal of "hot water life expert", our company constantly applies new materials and new technologies to ensure the perfect enjoyment of "JiaDeLe" excellent quality and make our contribution to energy saving and emission reduction.



## Differentiation Strategy, Service is Core Professional Power Solution Available



- Provide professional hot water project solutions to control costs and increase production efficiency
  - Improve the overall service level according to the continuous innovation of customers' requirement.
  - Cherish every opportunity to cooperate and solve your problem completely
- We will provide free, professional solutions and perfect one-stop service according to your requirement.