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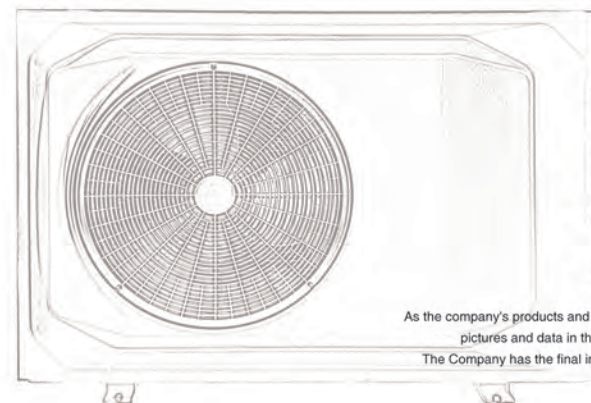
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ecofUTURE®



**ZHEJIANG JIADELE
TECHNOLOGY CO.,LTD**
www.jdlheatpump.com



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The Company has the final interpretation right of this brochure.



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THE ADVANTAGES OF AIR SOURCE HEAT PUMPS

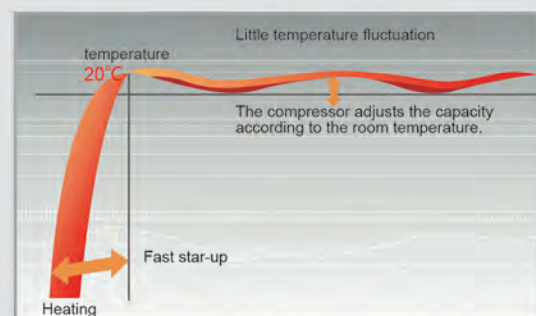
01 DC INVERTER Technology

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.



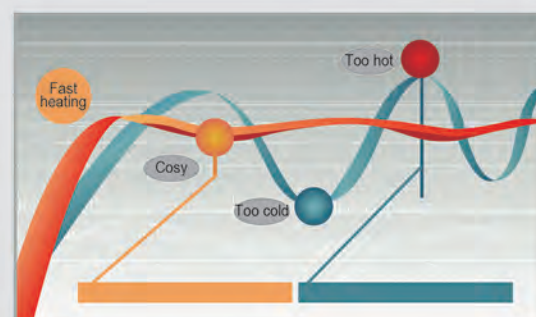
02 HIGH ACCURACY of Temperature Control

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.



MOBILE APP
CONTROL



SATISFY DIFFERENT
DEMANDS



TIMER SETTING



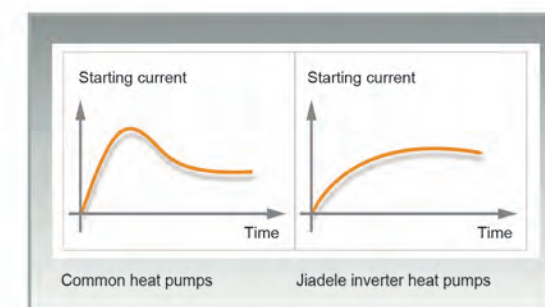
04 LOWER Noise

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)



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

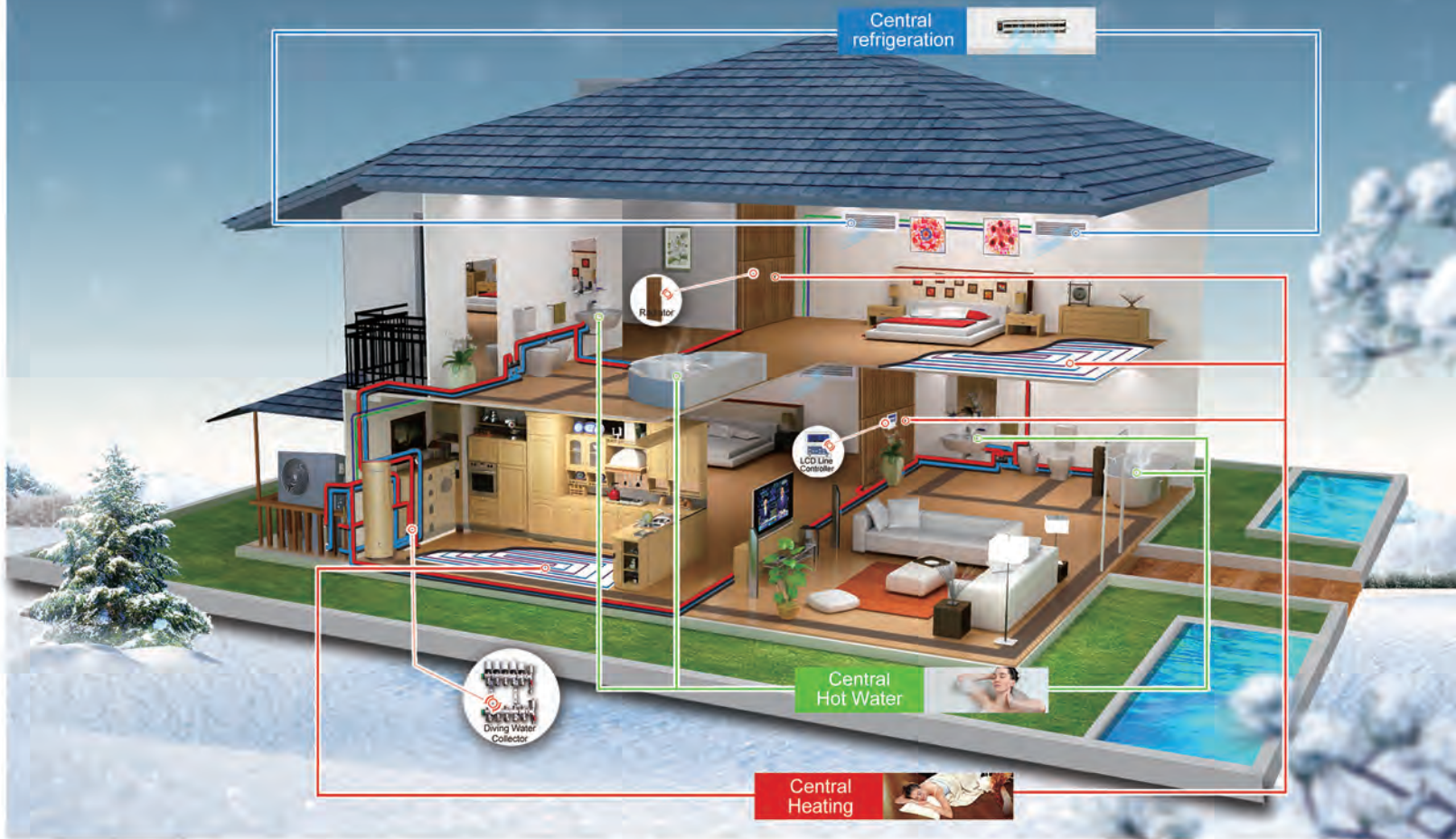
new high efficiency plate heat exchanger, 316 stainless steel corrugated plate. At the same pressure, its heat transfer coefficient is 3-10 times higher than that of other heat exchangers, and the heat recovery rate can be as high as 95%

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.

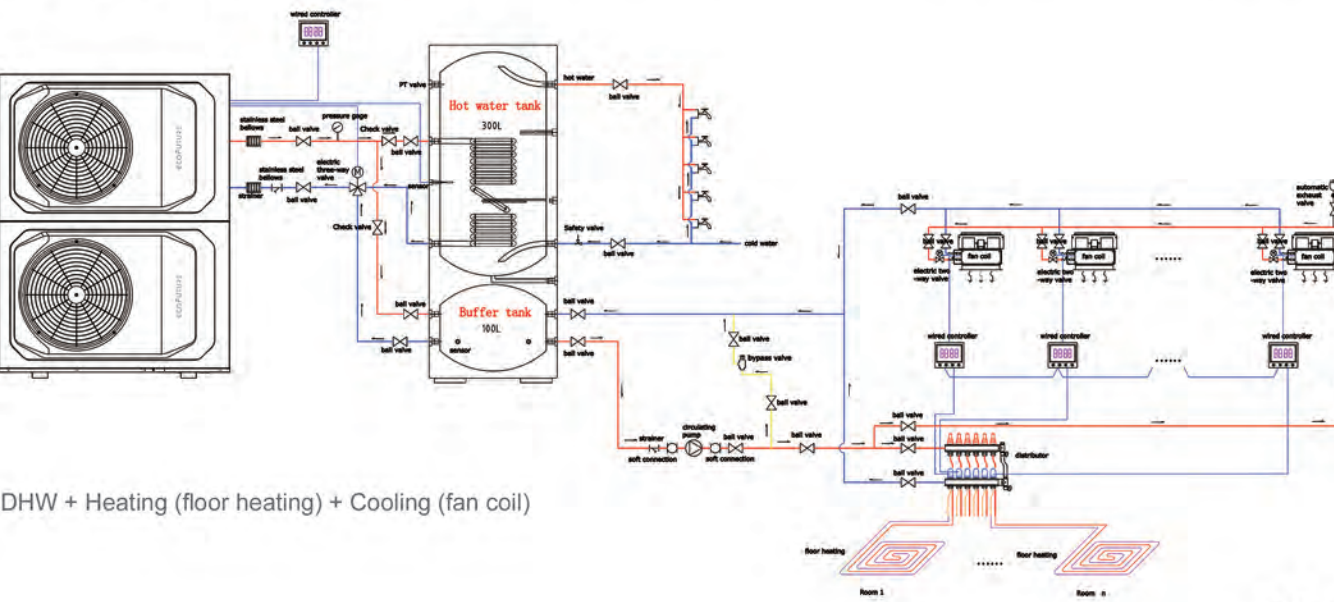
Expansion tank

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.

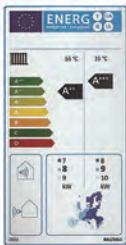
Grille design: CFD simulation technology for air outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

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 JHL-006X/ C2E1R9-A	12KW JHL-012X/ C2E1R9-A	12KW JHL-012X/ C2E2R9-A	12KW JHL-012X/ D2E1R9-A	12KW JHL-012X/ D2E2R9-A	18KW JHL-018X/ C2E1R9-A	18KW JHL-018X/ C2E2R9-A	18KW JHL-018X/ D2E1R9-A	18KW JHL-018X/ 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 ¹	Input Power	kW	0.55~1.78	0.86~3.23	0.86~3.23	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	7.08~25.25	2.85~8.45	7.08~25.25
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
	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 ₂ 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	m³/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
Motor t										
outdoor 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: Heating¹: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃ Heating²: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 47℃/55℃
Cooling: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃



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



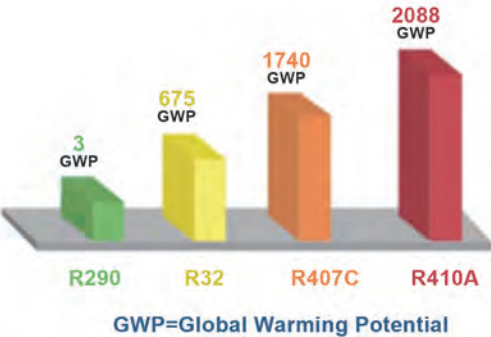
R290 AIR TO WATER HEAT PUMP



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 JHL-006X/ C2E1R9-A	12KW JHL-012X/ C2E1R9-A	12KW JHL-012X/ C2E2R9-A	12KW JHL-012X/ D2E1R9-A	12KW JHL-012X/ D2E2R9-A	18KW JHL-018X/ C2E1R9-A	18KW JHL-018X/ C2E2R9-A	18KW JHL-018X/ D2E1R9-A	18KW JHL-018X/ 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 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
	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	7.08 ~ 25.25	2.85 ~ 8.45	7.08 ~ 25.25
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
	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 ₂ 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	m³ / 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 t	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 1: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃ Heating 2: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 47℃/55℃
Cooling: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃



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

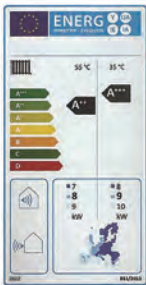
outlet grille, effectively reducing air outlet divergence and wind resistance, lowering wind noise.

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

R290 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 JHL-006X/ CZE1R9-A	12KW JHL-012X/ CZE1R9-A	12KW JHL-012X/ CZE2R9-A	12KW JHL-012X/ DZE1R9-A	12KW JHL-012X/ DZE2R9-A	18KW JHL-018X/ CZE1R9-A	18KW JHL-018X/ CZE2R9-A	18KW JHL-018X/ DZE1R9-A	18KW JHL-018X/ DZE2R9-A	30kw JHL-300X/ DZE2R9-A	40kw JHL-400X/ DZE2R9-A	50kw JHL-500X/ DZE2R9-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	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	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	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	4.65~14.15	6.76~18.15	8.28~22.92
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	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	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	14.28~31.52
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	5.85~16.55	10.85~24.55	13.85~30.55	16.85~35.55
	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	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	2.95~10.15	6.67~17.85	7.95~20.89
ERP Level (35℃)		/	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
ERP Level (55℃)		/	A++	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	9.00	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	22.3	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	R290/1.4/3	R290/3.3/3	R290/4.4/3	R290/5.3/3
CO ₂ Equivalent		/	0.0017t	0.0027t	0.0027t	0.0027t	0.0027t	0.0042t	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	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	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	3.0
Electrical Shockproof		/	I	I	I	I	I	I	I	I	I	I	I	I
IP Class		/	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Max. Outlet Water Temp.		℃	75	75	75	75	75	75	75	75	75	75	75	75
Operating Ambient Temperature		℃	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45
Water Piping Connections		inch	G1	G1	G1	G1	G1	G1-1/4	G1-1/4	G1-1/4	G1-1/4	G1-1/2	G1-1/2	G2
Rated Water Flow		m ³ /h	1.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	5.2	6	8.6
Water Pressure Drop		kPa	20	30	30	30	30	56	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	0.1/0.3
Noise Level		dB(A)	48	52	52	52	52	56	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	Hitachi EVI
outdoor fan	Motor type	DC fan												
	Number of fans	1	1	1	1	1	2	2	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	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	1215*535*1590	1470*630*2000	1470*630*2000	1200*1200*2200
Net Weight		kg	120	150	150	150	150	200	200	200	200	300	340	500

Notice: Heating 1: 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 2: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 47℃/55℃

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.

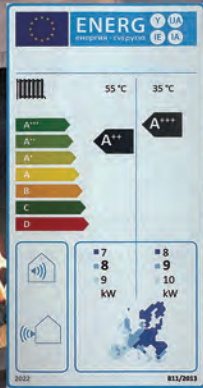


R32 "TRANSFORMER" &"GOLDEN CUP" HOUSEHOLD INVERTER HEAT PUMP FOR HEATING, COOLING & DHW

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
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+++			
Water outlet at 35℃					A++			
Water outlet at 55℃								
Sound power Level	dB		49	52	53	55	56	58
Compressor	Type		Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
outdoor fan/	Motor type		DC Fan	DC Fan	DC Fan	DC Fan	DC Fan	DC 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	1285*480*930
Packing dimension (W*H*D)	mm		1225*550*955	1225*550*955	1325*550*1070	1325*550*1070	1325*550*1070	1325*550*1070
Net/Gross weight	kg		100/125	100/125	125/150	125/150	125/150	125/150
Outdoor air temperature range	Cooling	℃			+7~43			
	Heating	℃			-30~35			
	DHW	℃			-30~43			
Water side heat exchanger					Plate type			
Water outlet temperature range	Cooling	℃			7~30			
	Heating	℃			12~60			
	DHW	℃			10~60			

Outdoor unit model name			12kW	14kW	16kW	20kW	22kW	26kW	32kW	36kW
			JHL-050X/D2E2R3-A	JHL-050X/D2E2R3-B	JHL-060X/D2E2R3-A	JHL-080X/D2E2R3-B	JHL-080X/D2E2R3-A	JHL-100X/D2E2R3-A	JHL-120X/D2E2R3-A	JHL-150X/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						A+++				A+++
Water outlet at 35℃						A++				A++
Water outlet at 55℃										
Sound power Level	dB		53	55	56	58	59	60	63	65
Compressor	Type		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
	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℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃
3.Heating 3: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 50℃/55℃
5.Cooling2: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃
2. Heating 2: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 40℃/45℃
4. Cooling1: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 23℃/18℃
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
			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
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	Water outlet at 35℃				A+++			
	Water outlet at 55℃				A++			
Sound power Level	dB		49	52	53	55	56	58
Compressor	Type		Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
outdoor fan/	Motor type		DC Fan	DC Fan	DC Fan	DC Fan	DC Fan	DC 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	1285*480*930
Packing dimension (W*H*D)	mm		1225*550*955	1225*550*955	1325*550*1070	1325*550*1070	1325*550*1070	1325*550*1070
Net/Gross weight	kg		100/125	100/125	125/150	125/150	125/150	125/150
Outdoor air temperature range	Cooling	℃			+7~43			
	Heating	℃			-30~35			
	DHW	℃			-30~43			
Water side heat exchanger					Plate type			
Water outlet temperature range	Cooling	℃			7~30			
	Heating	℃			12~60			
	DHW	℃			10~60			

Outdoor unit model name			12kW	14kW	16kW	20kW	22kW	26kW	32kW	36kW	70kW
			JHL-050X/ D2E2R3-A	JHL-050X/ D2E2R3-B	JHL-080X/ D2E2R3-A	JHL-080X/ D2E2R3-B	JHL-080X/ D2E2R3-A	JHL-100X/ D2E2R3-A	JHL-120X/ D2E2R3-A	JHL-150X/ D2E2R3-A	JHL-250X/ 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	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)	70(28.81-72.51)
	Rated input	kw	2.44	3.15	3.53	4.35	4.89	5.89	7.09	8.07	15.69
	COP		4.95	4.6	4.5	4.48	4.6	4.5	4.51	4.46	4.46
heating 2	Capacity	kw	12.3	14.1	16	19.4	21.8	26	32	36	70
	Rated input	kw	3.32	3.92	4.57	5.5	6.14	7.43	9.09	10.26	20.25
	COP		3.7	3.6	3.5	3.53	3.55	3.5	3.52	3.51	3.46
heating'3	Capacity	kw	11.9	13.8	16	19.3	21.2	25.5	30.72	34.56	67.21
	Rated input	kw	3.9	4.68	5.61	6.89	7.26	8.94	10.74	12.17	23.92
	COP		3.05	2.95	2.85	2.8	2.92	2.85	2.86	2.84	2.81
cooling 1	Capacity	kw	12	13.5	14.9	18.1	20.2	22.2	26	30	60
	Rated input	kw	3.28	3.75	4.2	5.17	5.77	6.53	7.62	8.69	17.34
	COP		3.65	3.6	3.55	3.5	3.5	3.4	3.41	3.45	3.46
cooling2	Capacity	kw	11.5	12.4	14	16	18	20	24	28	55
	Rated input	kw	4.2	4.77	5.5	6.37	7.1	8	9.38	10.68	21.65
	COP		2.73	2.6	2.55	2.51	2.54	2.5	2.56	2.62	2.54
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	69
Compressor	Type		Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Hitachi
outdoor fan/	Motor type		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	2	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	R32 7.8kg
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*1850	1440*630*1860
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	1470*630*2000
Net/Gross weight	kg		125/150	125/150	125/150	125/150	190/210	190/210	205/225	250/270	320/350
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℃/6℃ (DB/WB) .Water-in/out Temp 30℃/35℃
3.Heating 3: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 50℃/55℃
5.Cooling2: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃
2. Heating 2: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 40℃/45℃
4. Cooling1: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 23℃/18℃
6. Test standard:EN12102-1

R290 HOUSEHOLD ALL IN ONE HEAT PUMP

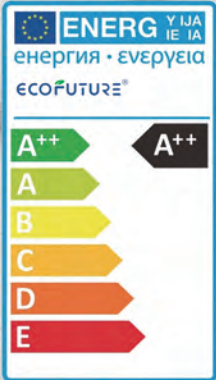
High heating efficiency

The unit uses the heat pump principle to absorb heat from the ambient air and re-lease it into the water to produce hot water.

Heating energy rating up to European standard A++.



CB CE ERP



R290"Gleamstar" All-in-One Heat Pump			
Model	JHR17-200LD/YT/B	JHR17-250LD/YT/B	JHR17-300LD/YT/B
Product Dimensions	Φ650*1525mm	Φ650*1735mm	Φ650*1945mm
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	200 L	250 L	300 L
Heating capacity	1600 W	1600 W	1600 W
Rated input power	360W	360W	360W
Auxiliary electric heating	2000W	2000W	2000W
Maximum input power (include electrical heating)	2630W	2630W	2630W
Maximum current	12.5A	12.5A	12.5A
COP	4.44	4.44	4.44
Refrigerant	R290	R290	R290
Compressor	HIGHLY	HIGHLY	HIGHLY
Four-way valve	DSF-3	DSF-3	DSF-3
Throttling device	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Evaporator	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe
Fan Motor	RD45HK2	RD45HK2	RD45HK2
Fan	φ190	φ190	φ190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	3.2 ~ 2.6/0.05-0.15 Mpa	3.2 ~ 2.6/0.05-0.15 Mpa	3.2 ~ 2.6/0.05-0.15 Mpa
Power cord specifications	3m X1.5mm ²	3m X1.5mm ²	3m X1.5mm ²
Heating rate	34.5L/h	34.5L/h	34.5L/h
Max outlet water temperature	75℃	75℃	75℃
Max outlet water temperature (heat pump mode)	65℃	65℃	65℃
Rated outlet water temp	55℃	55℃	55℃
Ambient temperature	-7~43℃	-7~43℃	-7~43℃
Waterproof level	IPX4	IPX4	IPX4
Sound Power Level	≤52dB(A)	≤52dB(A)	≤52dB(A)
Housing Material	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel
Water tank	Stainless steel	Stainless steel	Stainless steel
Water connection size	G3/4"	G3/4"	G3/4"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa	0.8MPa
Accessory Bag	one G1/2 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve
Packing Dimensions(L x W x H) (carton and pallet)	720*720*1650mm	720*720*1860mm	720*720*2070mm
Net Weight	86Kg	98Kg	110Kg
Operating ambient temperature	-7~43℃	-7~43℃	-7~43℃

Notice:1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -7~43℃.
2.The data above is for reference only. The specific parameters are subject to product nameplate.

R290 HOUSEHOLD ALL IN ONE HEAT PUMP

High heating efficiency

The unit uses the heat pump principle to absorb heat from the ambient air and re-lease it into the water to produce hot water.

Heating energy rating up to European standard A++.



CB CE ERP



R290"Stella" All-in-One Heat Pump			
Model	JHR17-200LD/YT/C	JHR17-250LD/YT/C	JHR17-300LD/YT/C
Product Dimensions	Φ650*1525mm	Φ650*1735mm	Φ650*1945mm
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	200 L	250 L	300 L
Heating capacity	1600 W	1600 W	1600 W
Rated input power	360W	360W	360W
Auxiliary electric heating	2000W	2000W	2000W
Maximum input power (include electrical heating)	2630W	2630W	2630W
Maximum current	12.5A	12.5A	12.5A
COP	4.44	4.44	4.44
Refrigerant	R290	R290	R290
Compressor	HIGHLY	HIGHLY	HIGHLY
Four-way valve	DSF-3	DSF-3	DSF-3
Throttling device	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Evaporator	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe
Fan Motor	RD45HK2	RD45HK2	RD45HK2
Fan	φ190	φ190	φ190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	3.2 ~ 2.6/0.05-0.15 Mpa	3.2 ~ 2.6/0.05-0.15 Mpa	3.2 ~ 2.6/0.05-0.15 Mpa
Power cord specifications	3m X1.5mm²	3m X1.5mm²	3m X1.5mm²
Heating rate	34.5L/h	34.5L/h	34.5L/h
Max outlet water temperature	75 ℃	75 ℃	75 ℃
Max outlet water temperature (heat pump mode)	65 ℃	65 ℃	65 ℃
Rated outlet water temp	55 ℃	55 ℃	55 ℃
Ambient temperature	-7~43 ℃	-7~43 ℃	-7~43 ℃
Waterproof level	IPX4	IPX4	IPX4
Sound Power Level	≤52dB(A)	≤52dB(A)	≤52dB(A)
Housing Material	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel
Water tank	Stainless steel	Stainless steel	Stainless steel
Water connection size	G3/4"	G3/4"	G3/4"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa	0.8MPa
Accessory Bag	one G1/2 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve
Packing Dimensions(L x W x H) (carton and pallet)	720*720*1860mm	720*720*1860mm	720*720*2070mm
Net Weight	86Kg	98Kg	110Kg
Operating ambient temperature	-7~43 ℃	-7~43 ℃	-7~43 ℃

Notice:1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -7~43℃.
2.The data above is for reference only. The specific parameters are subject to product nameplate.

R290 HOUSEHOLD WALL-MOUNTED ALL IN ONE HEAT PUMP

ECOFUTURE launched the R290 heat pump in 2022 to reduce environmental emissions. R290 refrigerant is recognized as a refrigerant that helps reduce emissions and achieve carbon neutrality goals.

CB CE ERP



GWP3 is 477 times lower than R134A, and microchannel heat exchangers can effectively improve the COP.

R290 "Stella" Wall-Mounted All-in-One Heat Pump				
Model	JHR09-85LD/YT/B	JHR09-100LD/YT/B	JHR09-120LD/YT/B	JHR09-150LD/YT/B
Product Dimensions	Φ470*1270mm	Φ470*1455mm	Φ470*1640mm	Φ470*1920mm
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	85 L	100 L	120 L	150 L
Heating capacity	930 W	930 W	930 W	930 W
Rated input power	215W	215W	215W	215W
Auxiliary electric heating	1500W	1500W	1500W	1500W
Maximum input power (include electrical heating)	1875W	1875W	1875W	1875W
Maximum current	8.8 A	8.8 A	8.8 A	8.8 A
COP	4.33	4.33	4.33	4.33
Refrigerant	R290	R290	R290	R290
Compressor	HIGHLY	HIGHLY	HIGHLY	HIGHLY
Four-way valve	DSF-3	DSF-3	DSF-3	DSF-3
Throttling device	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Evaporator	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe
Fan Motor	RD45HK2	RD45HK2	RD45HK2	RD45HK2
Fan	φ190	φ190	φ190	φ190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	3.2 ~ 2.6/0.02-0.1 Mpa	3.2 ~ 2.6/0.02-0.1 Mpa	3.2 ~ 2.6/0.02-0.1 Mpa	3.2 ~ 2.6/0.02-0.1 Mpa
Power cord specifications	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²
Heating rate	20 L/h	20 L/h	20L/h	20L/h
Max outlet water temperature	75 °C	75 °C	75 °C	75 °C
Max outlet water temperature (heat pump mode)	65 °C	65 °C	65 °C	65 °C
Rated outlet water temp	55 °C	55 °C	55 °C	55 °C
Ambient temperature	-7~43 °C	-7~43 °C	-7~43 °C	-7~43 °C
Waterproof level	IPX4	IPX4	IPX4	IPX4
Sound Power Level	≤ 50dB(A)	≤ 50dB(A)	≤ 50dB(A)	≤ 50dB(A)
Housing Material	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel
Water tank	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Water connection size	G1/2"	G1/2"	G1/2"	G1/2"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa	0.8MPa	0.8MPa
Accessory Bag	one G1/2 relief valve/Manuals	one G1/2 relief valve/Manuals	one G1/2 relief valve/Manuals	one G1/2 relief valve/Manuals
Packing Dimensions(L x W x H) (carton and pallet)	540*540*(1300+95)mm	540*540*(1485+95)mm	540*540*(1675+95)mm	540*540*(1955+95)mm
Net Weight	57 Kg	61 Kg	67 Kg	76Kg
Operating ambient temperature	-7~43 °C	-7~43 °C	-7~43 °C	-7~43 °C

Notice:1.The specification are based on the following conditions: DB/WB 20°C/15°C, Water temperature from 15°C to 55°C, Applicable ambient temperature -7~43°C.
2.The data above is for reference only. The specific parameters are subject to product nameplate.

R290 household all in one heat pump water heater

ECOFUTURE launched R290 ATW heat pump in 2022 to reduce carbon emission to the environment. R290 refrigerant is recognized as a refrigerant which contributes to the reduction of carbon emission and help achieve the global goal of carbon neutrality.



R134A HOUSEHOLD ALL IN ONE HEAT PUMP WATER HEATER

High heating energy efficiency:

The unit adopts heat pump principle, which absorbs heat from ambient air and releases it to the water to produce hot water. Seasonal water heating energy efficiency class ups to A.

CB CE ERP



R290 Australian Model All-in-One Heat Pump		
Product Dimensions	φ 510*2190 (190L)	φ 640*1975(300L)
Power supply	220~240V/50Hz	220~240V/50Hz
Heating capacity	1750W	2500W
Rated input power	350W	480W
Maximum input power	2585W	2835W
Maximum current	12A	13.15A
COP	5.0	5.2
Refrigerant	R290	R290
Compressor	Highly/rotary	GMCC/rotary
Four-way valve	Sanhua SHF-4	Sanhua SHF-4
Throttling device	Electronic expansion valve	Electronic expansion valve
Condenser	φ 7 hydrophilic aluminum foil	φ 7 hydrophilic aluminum foil
Motor	DC motor	DC motor
Axial-flow fan	φ 300	φ 320
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	2.8 ~ 2.4 MPa /0.05-0.15MPa	2.8 ~ 2.4 MPa /0.05-0.15MPa
Power cord specifications	(NSW2601) 3*1.5mm ²	(NSW2601) 3*1.5mm ²
Hot water yield	38L/h	54L/h
Max outlet water temperature	75℃	75℃
Running ambient temperature	-10~43℃	-10~43℃
Waterproof level	IPX4	IPX4
Noise level	≤ 48dB(A)	≤ 50dB(A)
Gross Weight/Net Weight	85kg	132kg
Outer tank material	Galvanized sheet painting	Galvanized sheet painting
Inner tank material	Enamel	Enamel
Inlet/outlet port size	G1/2"	G3/4"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa
Auxiliary electric heating	2000W	2000W
Storage size	190L	300L
Packing Dimensions(L x W x H)	600*585*2350 (carton and pallet)	740*740*2140 (carton and pallet)

Notice:

1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -10~45℃.

2.The data above is for reference only. The specific parameters are subject to product nameplate.

R134A All-in-One Heat Pump					
Model	JHR18-150LD/YT/A	JHR18-200LD/YT/A	JHR25-300LD/YT/A	JHR16-200LD/YT/C	JHR25-300LD/YT/C
Product Dimensions	φ570*1515	φ570*1800	φ640*2020	φ570*1815	φ650*2010
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz	220V~240V/60Hz	220V~240V/60Hz
Tank volume	150 L	200 L	300 L	200 L	300 L
Heating capacity	1800 W	1800 W	2420 W	1560 W	2450 W
Rated input power	470 W	470 W	623W	370W	640W
Maximum input power (include electrical heating)	2685 W	2685 W	2890 W	2670 W	3180 W
Maximum current	12.2 A	12.2 A	13.4 A	12.3 A	14.9 A
COP	3.82	3.82	3.88	4.22	3.83
Refrigerant	R134a	R134a	R134a	R134a	R134a
Compressor	GMCC	GMCC	Panasonic	HIGHLY	HIGHLY
Four-way valve	SHF-4	SHF-4	SHF-4	SHF-4	SHF-4
Throttling device	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Evaporator	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe
Fan Motor	YDK25/32	YDK25/32	YDK25/32	YDK-32	YDK-32
Fan	φ190	φ190	φ190	φ190	φ190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	3.0 ~ 2.4/0.01-0.15 Mpa	3.0 ~ 2.4/0.01-0.15 Mpa	3.0 ~ 2.4/0.01-0.15 Mpa	3.0 ~ 2.4/0.01-0.15 Mpa	3.0 ~ 2.4/0.01-0.15 Mpa
Power cord specifications	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²
Heating rate	39 L/h	39 L/h	52L/h	33.5 L/h	52.5 L/h
Max outlet water temperature (heat pump mode)	70℃	70℃	70℃	70℃	70℃
Rated outlet water temp	55℃	55℃	55℃	55℃	55℃
Ambient temperature	-7~45℃	-7~45℃	-7~45℃	-7~43℃	-7~43℃
Waterproof level	IPX4	IPX4	IPX4	IPX4	IPX4
Sound Power Level	≤ 52 dB(A)	≤ 52 dB(A)	≤ 53 dB(A)	≤ 52 dB(A)	≤ 53 dB(A)
Housing Material	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel
Water tank	Tank with enamel interior	Tank with enamel interior	Tank with enamel interior	Tank with enamel interior	Tank with enamel interior
Water connection size	G1/2"	G1/2"	G3/4"	G1/2"	G3/4"
Heat exchanger type	microchannel heat exchanger	microchannel heat exchanger	microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa	0.8MPa	0.8MPa	0.8MPa
Auxiliary electric heating	2000 W	2000 W	2000 W	2000 W	2000 W
Accessory Bag	one G1/2 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve	one G3/4 relief valve/Manuals/PT valve	one G1/2 relief valve/Manuals/PT valve	one G3/4 relief valve/Manuals/PT valve
Packing Dimensions(L x W x H) (carton and pallet)mm	645*645*1680	645*645*1970	740*740*2200	660*660*1950	720*720*2140
Net Weight	82 Kg	98 Kg	132 Kg	98 Kg	132 Kg
Operating ambient temperature	-7~45℃	-7~45℃	-7~45℃	-7~43℃	-7~43℃

Notice: 1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -7~43℃.

2.The data above is for reference only. The specific parameters are subject to product nameplate.



WALL MOUNTED R290 CB CE ERP

All In One Heat Pump Water Heater (Top Blow)			
Model	JHR09-85LD/YT/A	JHR09-100LD/YT/A	JHR09-120LD/YT/A
Product Dimensions	(Φ520)520*545*1145mm	(Φ520)520*545*1235mm	(Φ520)520*545*1375mm
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	85 L	100 L	120 L
Heating capacity	930 W	930 W	930 W
Rated input power	215W	215W	215W
Auxiliary electric heating	1500W	1500W	1500W
Maximum input power (include electrical heating)	1875W	1875W	1875W
Maximum current	8.8 A	8.8 A	8.8 A
COP	4.33	4.33	4.33
Refrigerant	R290	R290	R290
Compressor	HIGHLY	HIGHLY	HIGHLY
Four-way valve	DSF-3	DSF-3	DSF-3
Throttling device	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Evaporator	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe	Hydrophilic aluminum foil and copper pipe
Fan Motor	RD45HK2	RD45HK2	RD45HK2
Fan	φ190	φ190	φ190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	3.2 ~ 2.6/0.02-0.1 Mpa	3.2 ~ 2.6/0.02-0.1 Mpa	3.2 ~ 2.6/0.02-0.1 Mpa
Power cord specifications	3m X 1.5mm ²	3m X 1.5mm ²	3m X 1.5mm ²
Heating rate	20 L/h	20 L/h	20L/h
Max outlet water temperature	75 ℃	75 ℃	75 ℃
Max outlet water temperature (heat pump mode)	65 ℃	65 ℃	65 ℃
Rated outlet water temp	55 ℃	55 ℃	55 ℃
Ambient temperature	-7~43 ℃	-7~43 ℃	-7~43 ℃
Waterproof level	IPX4	IPX4	IPX4
Sound Power Level	≤ 50dB(A)	≤ 50dB(A)	≤ 50dB(A)
Housing Material	Powder coated galvanized steel	Powder coated galvanized steel	Powder coated galvanized steel
Water tank	Tank with enamel interior	Tank with enamel interior	Tank with enamel interior
Water connection size	G1/2"	G1/2"	G1/2"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger	Microchannel heat exchanger
Built-in pressure protection	0.8MPa	0.8MPa	0.8MPa
Accessory Bag	one G1/2 relief valve/Manuals	one G1/2 relief valve/Manuals	one G1/2 relief valve/Manuals
Packing Dimensions(L x W x H) (carton and pallet)	570*585*(1200+95)mm	570*585*(1290+95)mm	570*585*(1430+95)mm
Net Weight	57 Kg	61 Kg	67 Kg
Operating ambient temperature	-7~43 ℃	-7~43 ℃	-7~43 ℃

Notice:1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -7~43℃.
2.The data above is for reference only. The specific parameters are subject to product nameplate.

ECOFUTURE®

Household Water Circulation Heat Pump

Safer, Smarter, More convenient



Features: The main unit has a built-in water pump circulation system, no need for heating, safe and convenient. The main unit can be directly connected to the customer's water tank, and it can be used by simply connecting the power supply. It can be installed by anyone familiar with plumbing.



R410A Water circulation Heat Pump water Heaters

Model	JDLKF80X-PS3	JDLKF110X-PS3	JDLKF150X-PS3	JDLKF180X-PS3
Working temp. ℃	-7℃ ~ 43℃			
Power Supply	220V ~ 50Hz			
Rated Heating Capacity(KW)	3.5	5	7	9
Rated Input Power(KW)	0.85	1.21	1.65	2.19
Rated Woring current(A)	4.1	5.8	8	9.5
Max Input Power(KW)	1.3	1.8	2.6	3.1
Max Woring current(A)	6.5	8.6	12.5	15.5
COP	4.12	4.13	4.24	4.11
Max Water Temperature	60 ℃	60 ℃	60 ℃	60 ℃
Hot water yield(L/h)	75	107	150	193
Circulating Pipe Diameter	DN20	DN20	DN20	DN20
Rated circulating water flow (m ³ /h)	0.7	0.9	1.2	1.5
Water Pressure Loss	35	40	50	50
Compressor	5PS108EAA22	5PS146EAA21	5KS205EAB21	5VS270EAA21
Water Pump	Shinhoo			
Noise	≤ 53dB(A)	≤ 53dB(A)	≤ 55dB(A)	≤ 55dB(A)
Refrigerant R410A capacity (kg)	0.6	0.7	0.8	1.05
Weight (kg)	43	45	55	60
Net Dimension(L*W*H) host/tank	930X280X550		930X280X590	980X280X590

Testing condition: 1、Heating: Ambient temp .(DB/WB):20℃/15℃,water temp.(input/output):15℃/55℃
2、Due to product improvement, the parameters in the table are subject to be changed without prior notice

DC INVERTER HOUSEHOLD SWIMMING POOL HEAT PUMP

make professional solution for dehumidification and constant temperature

CB CE ERP
RoHS



ECOFUTURE®



DC INVERTER HOUSEHOLD SWIMMING POOL HEAT PUMP

		JDLKRY-5FE1-2	JDLKRY-5FE1-1	JDLKRY-8FE1-1	JDLKRY-13FE1-1	JDLKRY-16FE1-1
Refrigerant		R32				
Power supply	V/PH/Hz	220-240/1/50				
YL-H01-Heating: A27/W26℃	Heating capacity	kW	3.8	6	8.6	12
		BTU/h	12966	20473	29344	40946
	Power input	kW	0.59	0.95	1.18	1.65
	Current	A	2.7	4.3	5.4	7.5
	COP	W/W	6.4	6.3	7.3	7.3
YL-H02-Heating: A15/W26℃	Heating capacity	kW	2.7	4.5	6.4	8.6
		BTU/h	9213	15355	21838	29344
	Power input	kW	0.61	0.98	1.25	1.73
	Current	A	2.8	4.5	5.7	7.9
	COP	W/W	4.4	4.6	5.1	5.0
YL-C01-Cooling: A35/W30℃	Cooling capacity	kW	1.8	4.3	5.4	7.6
		BTU/h	6142	14672	18426	25932
	Power input	kW	0.7	1.3	1.7	2.3
	Current	A	3.2	5.9	7.7	10.5
	EER	W/W	2.6	3.3	3.2	3.3
YL-C02-Cooling: A43/W30℃	Cooling capacity	kW	1.2	3.7	4.1	5.6
		BTU/h	4095	12625	13990	19108
	Power input	kW	0.63	1.4	1.57	1.8
	Current	A	2.9	6.4	7.1	8.2
	EER	W/W	1.9	2.6	2.6	3.1
OPERATING	Water outlet temp.range	℃	15-35	15-40	15-40	15-40
	Ambient temp.range	℃	5-43	-10-43	-10-43	-10-43
HEAT EXCHANGER	Compressor brand		GMCC	MITSUBISHI ELECTRIC		
	Compressor type		Rotary*1	Rotary*1	Rotary*1	Rotary*1
	Controller					
MAX	Noise	dB(A)	52	47	50	52
	Power input	KW	0.95	1.5	2.2	2.6
	Current	A	4.3	6.8	10.0	11.8
KEY	Type		Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Standard water flow	m³/h	1.6	2.6	3.7	5.2
	Suggested water flow	m³/h	1.2-2	2-3	3-5	4.2-6
	Water pressure drop(max)	KPa	4	4	6	8
	Water pipe		Micro processor based digital controller with LCD touch screen disply			
FAN	Water connection	mm	25	50	50	50
	Position		Side	Side	Side	Side
	Material		Plastic	Plastic	Plastic	Plastic
DIMENSIONS (L x W x H)	Air flow	m³/h	1000	1300	1800	2500
	Net	mm	425/325/430	995/396/570	995/396/570	995/396/570
WEIGHT		kg	22.5/24	35/38	37/40	40/44

SIDE DISCHARGE INVERTER R290

Model	JDLKRY-5FE1	JDLKRY-8FE1	JDLKRY-10FE1	JDLKRY-12FE1	JDLKRY-15FE1	JDLKRY-18FE1	JDLKRY-24FE1	JDLKRY-24FE2
Recommended Pool Volume	M3	12-25	19-38	24-50	28-56	36-70	43-90	58-115
Power supply	V/Ph/Hz	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ
Refrigerant	R290							
Operating Environment Temperature	℃	-15-43						
Max. Outlet Water Temperature	℃	42						
Min. Outlet Water Temperature	℃	8						
Heating Capacity	KW	2.7-8	4.4-12.9	4.7-14.5	6.2-18.5	6.6-20.9	8.3-24.5	12.6-34.5
	BTU	9200-27288	15000-44000	16031-49459	21148-63100	22512-71289	28311-83569	42978-117679
Standard Heating Condition		(Air 27°C/Water 26°C/Humid.80%)						
Standard Heating Capacity	KW	6.75	10.8	13.3	16.1	20.2	24.1	32.2
	BTU	23024	36839	45366	54917	68902	82205	109834
Standard Heating Power	KW	1.17	1.89	2.32	2.82	3.56	4.19	5.63
Standard Heating Current	A	5.13	8.3	10.2	12.38	15.63	18.4	24.74
COP	W/W	5.75	5.71	5.74	5.71	5.68	5.75	5.72
Rated Heating Condition		(Air 15°C/Water 26°C/Humid.70.8%)						
Rated Heating Capacity	KW	5	8	9.8	11.9	14.9	17.8	23.8
	BTU	17055	27288	33428	40591	50824	60716	81182
Rated Heating Power	KW	1.11	1.8	2.2	2.64	3.3	3.97	5.28
Rated Heating Current	A	4.87	7.9	9.66	11.6	14.5	17.43	23.2
COP	W/W	4.5	4.43	4.45	4.5	4.48	4.48	4.51
Rated Cooling Condition		(Air 35°C/Water 30°C/Humid.40.3%)						
Rated Cooling Capacity	KW	3.8	6	6.86	8.3	10.4	12.5	16.7
	BTU	12962	20466	23399	28311	35474	42638	56964
Rated Cooling Power	KW	1.19	1.9	2.8	2.44	3.04	4.55	5.96
Rated Cooling Current	A	5.23	8.34	9.13	10.72	13.4	19.97	26.2
EEP	W/W	3.2	3.15	3.3	3.4	3.42	2.75	2.8
Max. Current	A	7.9	9.7	12.3	15.4	19.8	19.8	26.4
Water pipe connection	MM	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3
Water Flow	M3	2.14	3.42	4.2	5.1	6.38	7.63	10.2
Water Side Pressure Resistance	KPA	4	5	7	9	11	12	13
Protection Level		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Motor		CD						
Throttle Device		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Heat Exchanger		PVC Titanium Alloy Heat Exchanger						
Noise	(dBA)	45	47	48	50	53	56	57

ON/OFF HOUSEHOLD AND COMMERCIAL
SWIMMING POOL HEAT PUMPS

make professional solution for dehumidification
and constant temperature

CB CE ERP
RoHS SAA APPROVALS®



ON/OFF HOUSEHOLD AND COMMERCIAL SWIMMING POOL HEAT PUMPS

			JDLKRY-5FE1	JDLKRY-8FE1	JDLKRY-13FE1	JDLKRY-16FE1	JDLKRY-20E2	JDLKRY-25E2	JDLKRY-50E2	JDLKRY-100E2
Refrigerant			R32				R410A			
Power supply		V/PH/Hz	220-240/1/50				380V /3N - 50Hz			
YL-H01-Heating: A24/W26℃	Heating capacity	kW	4.8	7.4	12.6	16	20	25	49	98
		BTU/h	16378	25250	42993	54594	68243	85304	167195	334390
	Power input	kW	0.8	1.16	2.03	2.8	3.1	4.4	8.6	17.3
	Current	A	3.7	5.4	9.3	13.3	7	9.3	9.6	39
	COP	W/W	6	6.4	6.2	5.7	6.5	5.7	5.7	5.7
YL-H02-Heating: A15/W26℃	Heating capacity	kW	3.9	6.2	10.5	13.2	16.7	21	42	84
		BTU/h	13307	21155	35827	45040	56983	71655	143310	286620
	Power input	kW	0.82	1.2	2.04	2.74	3.15	4.25	8.5	16.9
	Current	A	3.8	5.7	9.3	13	7.1	9.2	19	37
	COP	W/W	4.8	5.2	5.1	4.8	5.3	4.9	4.9	5.0
YL-C01-Cooling: A35/W30℃	Cooling capacity	kW	3.2	5.2	7.7	8.1	12.8	14.5	28	62
		BTU/h	10919	17743	26273	27638	43675	49476	95540	211553
	Power input	kW	1.06	1.6	2.73	3.8	4.1	5.5	10.5	22
	Current	A	5	7.4	12.3	18	8.5	11.0	22	43
	EER	W/W	3.0	3.3	2.8	2.1	3.1	2.6	2.7	2.8
YL-C02-Cooling: A43//W30℃	Cooling capacity	kW	2.64	4.2	6.2	6.5	10.5	12	24	46
		BTU/h	9008	14331	21155	22179	35827	40946	81891	156958
	Power input	kW	1.25	1.86	2.95	3.3	5.08	6	12	23
	Current	A	5.8	8.6	14.4	19	9	13	26	52
	EER	W/W	2.1	2.3	2.1	2.0	2.1	2.0	2.0	2.0
OPERATING	Water outlet temp.range	℃	15-40	15-40	15-40	15-40	15-40	15-40	15-40	15-40
	Ambient temp.range	℃	-7-43	-7-43	-7-43	-7-43	-7-43	-15-43	-15-43	-15-43
HEAT EXCHANGER	Compressor brand		HIGHLY	HIGHLY	HIGHLY	HIGHLY	Copeland Scroll	Copeland Scroll	Copeland Scroll	Copeland Scroll
	Compressor type		Rotary*1	Rotary*1	Rotary*1	Rotary*1	Scroll*1	Scroll*1	Scroll*2	Scroll*2
	Controller		Micro processor based digital controller wi.th LCD touch screen disply							
	Noise	dB(A)	47	50	52	54	60	60	64	72
MAX	Power input	KW	1.5	2	3.4	4.4	5.1	6	12	23
	Current	A	6.8	9.3	16	22	9	13	26	52
KEY	Type		Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Standard water flow	m³/h	2	3.2	5.5	6.9	8.6	9.5	19	38
	Suggested water flow	m³/h	1.8-3	3-5	6-8	6.5-8.5	8-10	9-11	19-21	38-40
	Water pressure drop(max)	KPa	4	6	10	14	15	16	55	55
	Water connection	mm	50	50	50	50	40	40	50	80
FAN	Position		Side	Side	Side	Side	Verticle	Verticle	Verticle	Verticle
	Material		Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	metal
	Air flow	m³/h	1300	1800	3000	3000	5500	6500	13000	26000
DIMENSIONS (L x W x H)	Net	mm	995/396/570	995/396/570	1060/425/658	1060/425/658	750/750/1000	750/750/1100	1560/850/1100	2000/1000/2070
WEIGHT		kg	39/42	49/52	68/72	70/74	140	180	350	810



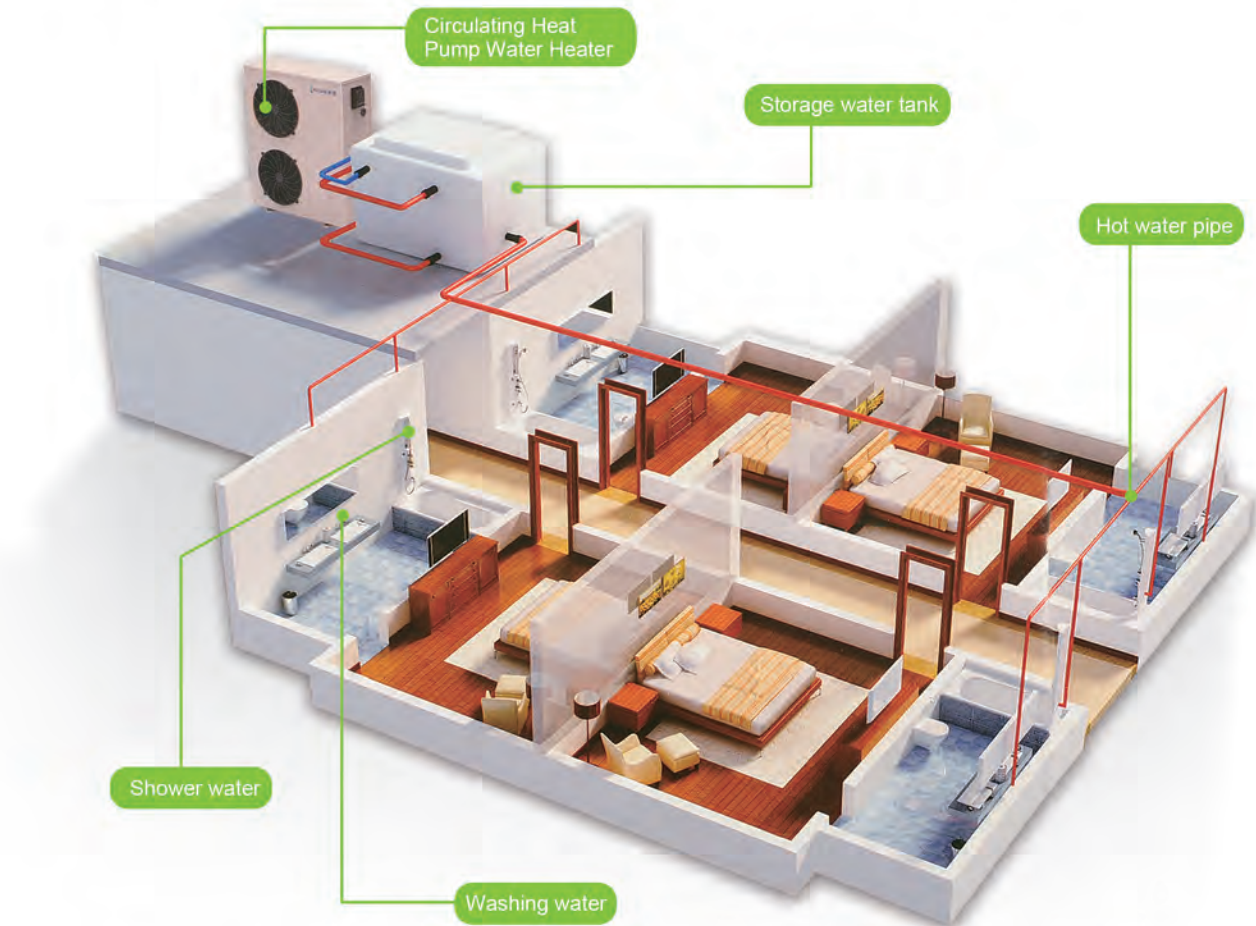
SIDE DISCHARGE INVERTER R454B

Model		JDLKRY-5FE1	JDLKRY-8FE1	JDLKRY-10FE1	JDLKRY-12FE1	JDLKRY-15FE1	JDLKRY-18FE1	JDLKRY-24FE1	JDLKRY-24FE2	JDLKRY-28FE2
Recommended Pool Volume	M3	12-25	19-38	24-50	28-56	36-70	43-90	58-115	58-115	68-135
Power supply	V/Ph/Hz	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ	208-230V/1/50HZ/60HZ
Refrigerant		R454B								
Operating Environment Temperature	℃	-15-43								
Max. Outlet Water Temperature	℃	42								
Min. Outlet Water Temperature	℃	8								
Heating Capacity	KW	2.4-7.5	4-11.88	4.9-15	6.2-18.5	7-22.3	8.8-25	12.1-33.5	12.1-33.6	12.9-39
	BTU	8186-25582	13644-40522	16713-51165	21148-63100	23877-76065	30016-82575	41273-114268	41273-114268	44002-133029
Standard Heating Condition		(Air 27°C/Water 26°C/Humid.80%)								
Standard Heating Capacity	KW	6.75	10.8	13.3	16.1	20.2	24.1	31.8	32	37.1
	BTU	23024	36839	45366	54917	68902	82205	108470	109152	126548
Standard Heating Power	KW	1.17	1.88	2.32	2.83	3.54	4.21	5.57	5.57	6.58
Standard Heating Current	A	5.14	8.26	10.2	12.43	15.55	18.49	24.64	9.54*3	11.11*3
COP	W/W	5.79	5.73	5.74	5.68	5.71	5.72	5.71	5.72	5.64
Rated Heating Condition		(Air 15°C/Water 26°C/Humid.70.8%)								
Rated Heating Capacity	KW	5	8	9.8	11.9	14.9	17.8	23.4	23.4	27.5
	BTU	17055	27288	33428	40591	50824	60716	79817	79817	93803
Rated Heating Power	KW	1.09	1.76	2.18	2.64	3.3	3.93	5.22	5.22	6.15
Rated Heating Current	A	4.79	7.73	9.57	11.6	14.5	17.3	23	8.8*3	10.4*3
COP	W/W	4.6	4.54	4.5	4.5	4.51	4.53	4.48	4.5	4.47
Rated Cooling Condition		(Air 35°C/Water 30°C/Humid.40.3%)								
Rated Cooling Capacity	KW	3.5	5.6	6.86	8.3	10.4	12.5	16.3	16.3	19.3
	BTU	11939	19102	23399	28311	35474	42638	55599	55599	65832
Rated Cooling Power	KW	1.09	1.78	2.08	2.44	3.04	4.55	5.62	5.62	6.03
Rated Cooling Current	A	4.78	7.81	9.13	10.71	13.35	19.98	25.98	9.8*3	10.17*3
EEP	W/W	3.2	3.15	3.3	3.4	3.42	2.75	2.9	2.9	3.2
Max. Current	A	7.9	9.7	12.3	15.4	19.8	19.8	26.4	10.1*3	13.5*3
Water pipe connection	MM	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3	50/48.3
Water Flow	M3	2.14	3.42	4.2	5.1	6.38	7.63	10.2	10.2	11.78
Water Side Pressure Resistance	KPA	4	5	7	9	11	12	13	13	14
Protection Level		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Motor		CD								
Throttle Device		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Heat Exchanger		PVC Titanium Alloy Heat Exchanger								
Noise	(dBA)	45	47	48	50	52	55	56	56	57

COMMERCIAL MEDIUM TEMPERATURE HEAT PUMP WATER HEATER

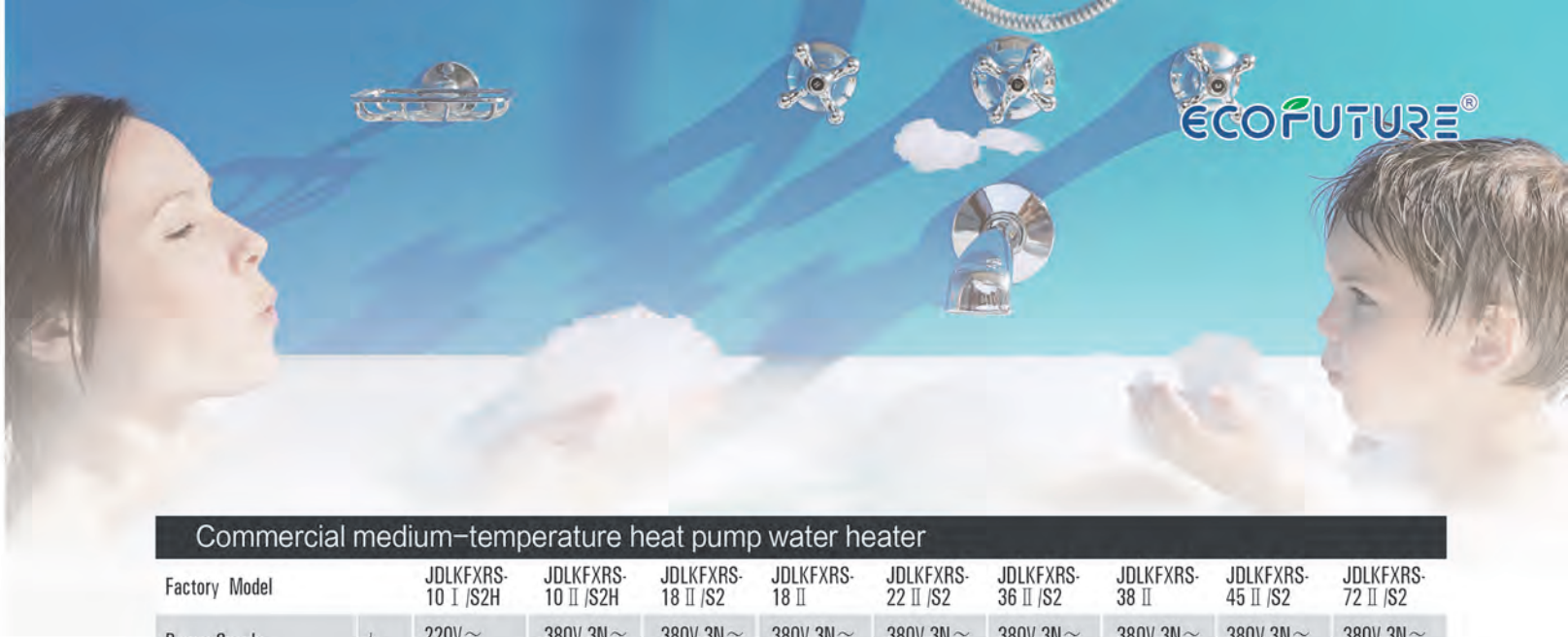
Circulating Heat Pump Water Heater

The circulating water heater uses environmentally friendly refrigerant. It first fills the insulated water tank with tap water, then circulates and heats the water in the tank to the set temperature.



- ※ **Ambient Temperature**
Stable operation at -7℃
- ※ **High Water Temperature**
Maximum outlet water temperature of 60℃

- ※ **High Reliability**
Comprehensive protection
- ※ **High Intelligence**
Remote centralized control technology

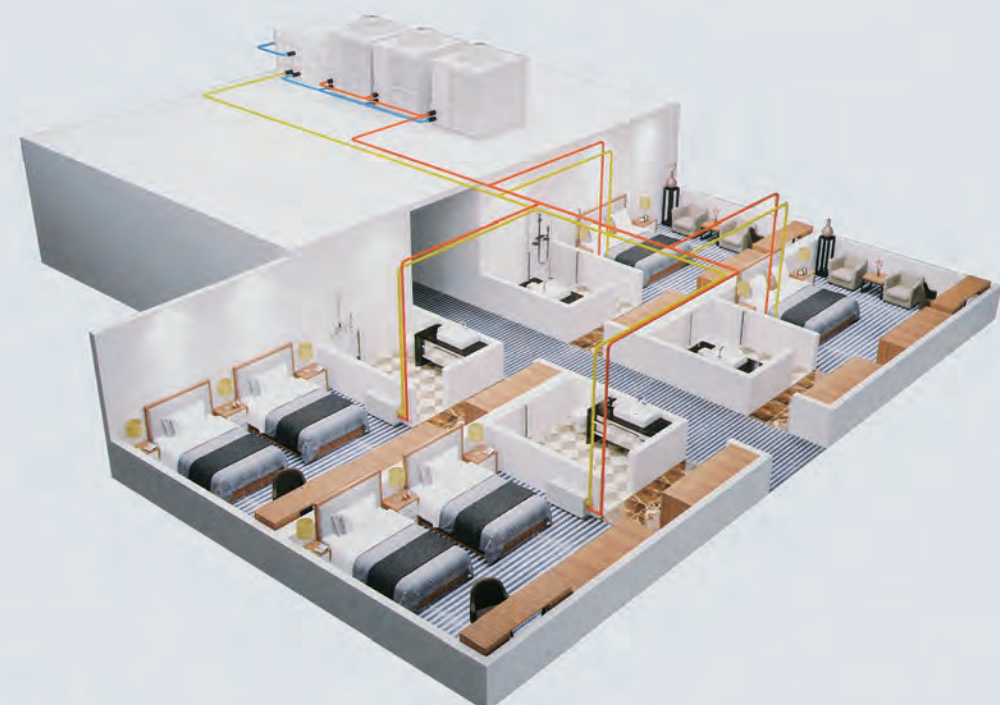


Commercial medium-temperature heat pump water heater										
Factory Model		JDLKFXRS-10 I /S2H	JDLKFXRS-10 II /S2H	JDLKFXRS-18 II /S2	JDLKFXRS-18 II	JDLKFXRS-22 II /S2	JDLKFXRS-36 II /S2	JDLKFXRS-38 II	JDLKFXRS-45 II /S2	JDLKFXRS-72 II /S2
Power Supply	/	220V ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Electric Shock Proof Grade	/	CLASS I	CLASS I	CLASS I	CLASS I	CLASS I	CLASS I	CLASS I	CLASS I	CLASS I
Protection Grde	/	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Nominal Heating Capacity	kW	9.0	9.0	16.5	19.0	21.0	33.0	38.0	42.0	72.0
Rated Input Power	kW	2.12	2.12	4.13	4.35	5.18	8.25	8.70	10.20	17.50
COP	W/W	4.2	4.2	4.0	4.4	4.1	4.0	4.4	4.1	4.1
Max Input Power	kW	3.78	3.78	6.50	6.50	6.90	13.00	13.00	14.50	26.00
Max Working Current	A	19.1	7.5	12.5	12.5	13.5	25.0	25.0	27.0	48.0
Max Water Temperature	℃	60	60	60	60	60	60	60	60	60
Water Yield	L/h	215	215	355	400	473	710	800	920	1600
Rated Circulating Water	m³/h	1.8	1.8	3.5	3.5	4.0	7.0	7.0	8.0	13.0
Water Pressure Loss	kPa	70	70	70	70	75	80	80	80	90
Noise	dB(A)	≤58	≤58	≤62	≤62	≤63	≤64	≤64	≤66	≤69
Refrigerant	/	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Net Dimension(L*W*H)	mm	700×700×900	700×700×900	750×750×1050	750×750×1100	750×750×1050	1560×850×1050	1560×850×1100	1560×850×1050	2000×970×1850
Machine Weight	kg	90	90	105	120	125	210	240	250	650
Circulating Pipe Diameter	DN	DN25	DN25	DN25	DN25	DN25	DN40	DN40	DN40	DN50
Evaporator Qty	Pcs	1	1	1	1	1	2	2	2	2
Motor Type/Qty	Pcs	AC motor/1	AC motor/1	AC motor/1	AC motor/1	AC motor/1	AC motor/2	AC motor/2	AC motor/2	AC motor/2
Air Discharge Way	Type	Top Discharge	Top Discharge	Top Discharge	Top Discharge	Top Discharge	Top Discharge	Top Discharge	Top Discharge	Top Discharge
Throttle mode	Type	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal	EEV/Thermal
Air side heat exchanger	Type	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil
Water side heat exchanger	Type	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube	Tube-in-Tube

Testing condition
1.Heating:Ambient temp.(DB/WB):20℃/15℃, water temp.(input/output):15℃/55℃。
2.Due to product improvement,the parameters in the table are subject to be changed without prior notice

COMMERCIAL ULTRA-LOW TEMPERATURE HEAT PUMP FOR HEATING & COOLING

Suitable for families, villas, schools, government agencies, bathing centers, resort centers, hospitals, etc. When the building area is relatively large, multiple air source heat pumps can be used altogether to operate in a certain scale.



System features

Safe and stable

This product adopts new technologies such as enhanced heat transfer, EVI jet enhancement and other national patents.

Low temperature operation

Using well-known brand heat pump special compressor, stable operation at -30 °C.

Custom technology

The heat generated by the hot water heater can be used for many purposes, and the humanized customized design meets the needs of different users.

Intelligent control

Remote monitoring system realizes distributed integrated control, easy to operate and easy to maintain.



Ultra-low temperature heat pump for heating&cooling				
Model	/	JHL-150X/D1E3R4-A	JHL-300X/D1E3R4-A	JHL-600X/D1E3R4-A
Power supply	/	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz
Heating1	Rated Heating capacity	kW	40.0	80.0
	Rated Input Power	kW	11.0	22.0
	Rated working current	A	16.64	33.43
	COP	/	3.65	3.64
Heating2	Heating capacity	kW	25.00	50.00
	Input Power	kW	10.30	20.80
	COP	/	2.43	2.40
Heating3	Heating capacity	kW	20.50	41.50
	Input Power	kW	9.25	18.30
	COP	/	2.22	2.27
Cooling	Rated Cooling capacity	kW	30.00	60.00
	Rated Cooling Input Power	kW	10.55	20.68
	EER	/	2.84	2.90
Max Input Power		kW	20.0	40.0
Max Working current		A	30.0	60.0
Rated Circulating Water		m³/h	6.80	13.80
Max water temperature		℃	60	60
Water Pressure Loss		kPa	80.0	60.0
Circulating Pipe Diameter		DN	DN40	DN50
Refrigerant		/		
Noise level		(dB)	≤66	≤71
Refrigerant		/	R410A	R410A
Net Dimension		mm	1710*900*1780	1880*960*2180
Weight		kg	430	800

Heating 1: Ambient Temp 7℃/6℃ (DB/WB) .Water-in/out Temp 40℃/45℃
Heating 2: Ambient Temp -12℃/14℃ (DB/WB) .Water-in/out Temp 36℃/41℃
Heating 3: Ambient Temp -20℃/-℃ (DB/WB) .Water-in/out Temp 36℃/41℃
Cooling: Ambient Temp 35℃/24℃ (DB/WB) .Water-in/out Temp 12℃/7℃

Household Multi-Purpose Water Tank

The two-in-one water tank can be precisely matched with the heat pump to provide space heating, cooling, DHW solutions.



Various Tank Volumes

There are two kinds of combination for the buffer tank and storage tank. So it is flexible for users to choose different tanks according to the area of the house, heating needs, and water usage needs

200L

300L

70L

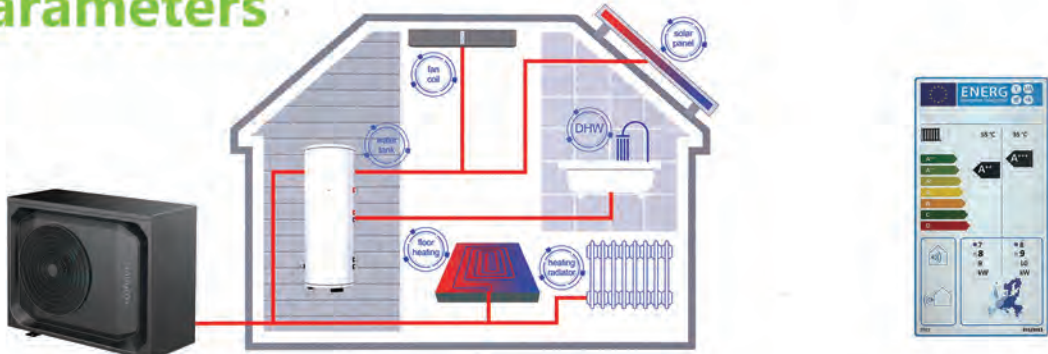
100L

Suggested Match:

4~6kW Heat Pump 8~16kW Heat Pump

200~500L Pressurized DHW Tank

Data parameters



Specifcation--two-in-one water tank				
	One Coil		Two Coil	
DHW tank	Rated volume(L)	200	300	200
	Diameter(mm)	φ480	φ580	φ480
	Matetial of tank	SUS304/316L	SUS304/316L	SUS304/316L
	Inner tank thickness(mm)	1.5	1.5	1.5
	Coil tube (Dia* Thickness* Length)(mm)(solar collector)	/	/	φ20*12000
	Heat exchanger(m²)	/	/	0.9
	Coil tube (Dia* Thickness* Length)(mm)(heat pump)	φ25*18000	φ25*18000	φ25*18000
	Heat exchanger(m²)	1.8	1.8	1.8
	Circulating water port (inch)	G3/4female	G3/4female	G3/4female
	Hot water outlet(inch)	G3/4male	G3/4male	G3/4male
	Cold water inlet(inch)	G3/4male	G3/4male	G3/4male
	Magnesium anode(mm)	φ22*300	φ22*300	φ22*300
	Electric heating power(kw/v)	2/230	2/230	2/230
	Temperature controller(°C)	85	85	85
	Rated water pressure(Mpa)	0.7	0.7	0.7
Buffer tank	Max water operating pressure(Mpa)	1.0	1.0	1.0
	Rated volume(L)	70L	100L	70L
	Diameter(mm)	φ480	φ580	φ480
	Material of tank	SUS304	SUS304	SUS304
	Inner tank thickness(mm)	1.5	1.5	1.5
	Quantity of circulating water port	4	4	4
	Circulating water (inch)	G1female	G1female	G1female
	Drainage port(inch)	G1/2female	G1/2female	G1/2female
	Safety Valve	0.3Mpa	0.3Mpa	0.3Mpa
	Outside tank color	white/silver	white/silver	white/silver
Others	Outside tank material	galvanized steel	galvanized steel	galvanized steel
	Outside tank thickness(mm)	0.5	0.5	0.5
	Foaming material	PU foam	PU foam	PU foam
	Net Dimensions(mm)	φ580*1820	φ700*1820	φ580*1820
	Net weight(kg)	77	85	83
	Packing Dimensions(mm)	640*640*1900	760*760*1900	640*640*1900
	Gross weight(kg)	90	110	90
	Loading quantity of 40GP	54	54	54
	Loading quantity of 40HQ	72	54	72
				54

Parameter Table					
Type	Tank Specification	Outer Tank Diameter*Height	Inner Tank Diameter	Inner Tank Material	Heat Exchange Area
JDL-100 One Coil	100L	φ480×1120	φ380	SUS304/SUS316Lx δ1.2	0.6m²
JDL-150 One Coil	150L	φ480×1450	φ380	SUS304/SUS316Lx δ1.2	0.72 m²
JDL-200 One Coil	200L	φ480×1870	φ380	SUS304/SUS316Lx δ1.2	0.85 m²
JDL-250 One Coil	250L	φ580×1500	φ480	SUS304/SUS316Lx δ1.2	0.95 m²
JDL-300 One Coil	300L	φ580×1780	φ480	SUS304/SUS316Lx δ1.2	1.19 m²
JDL-400 One Coil	400L	φ700×1650	φ580	SUS304/SUS316Lx δ1.5	1.31 m²
JDL-500 One Coil	500L	φ700×1980	φ580	SUS304/SUS316Lx δ1.5	1.49 m²

Company profile

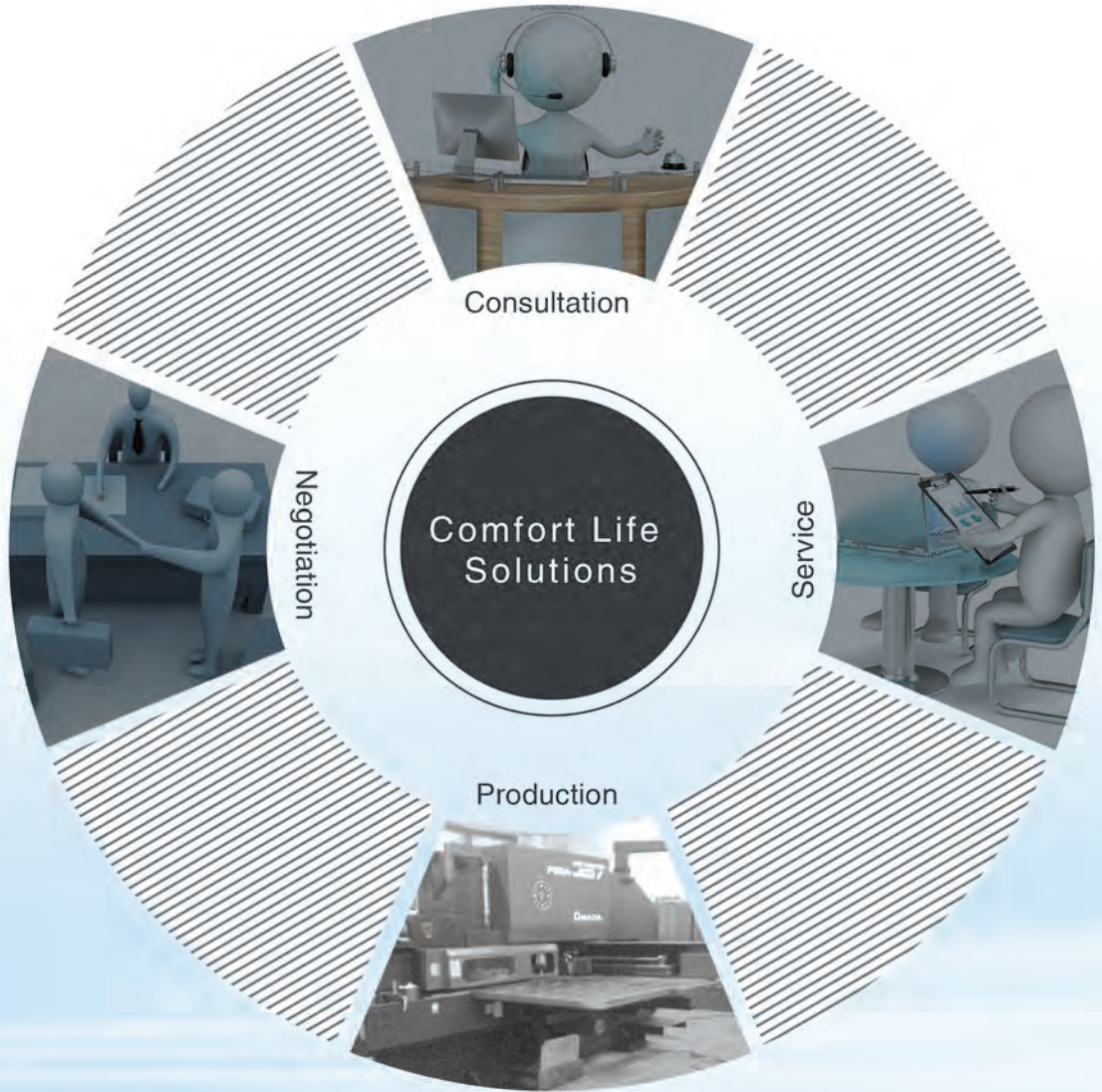
Zhejiang Jiadele Technology Co., Ltd. Established in 2000, who has been focusing on the hot water industry for 23 years. Our company currently has solar water heater business department and air source heat pump business department. Solar Water Heater Department has two advanced production lines, the 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 100,000 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 38,000 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 2015. 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.