

# ZHEJIANG JIADELE TECHNOLOGY CO.,LTD

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

**JIADELE**<sup>®</sup>

## Zhejiang Jiadele Technology Co., Ltd

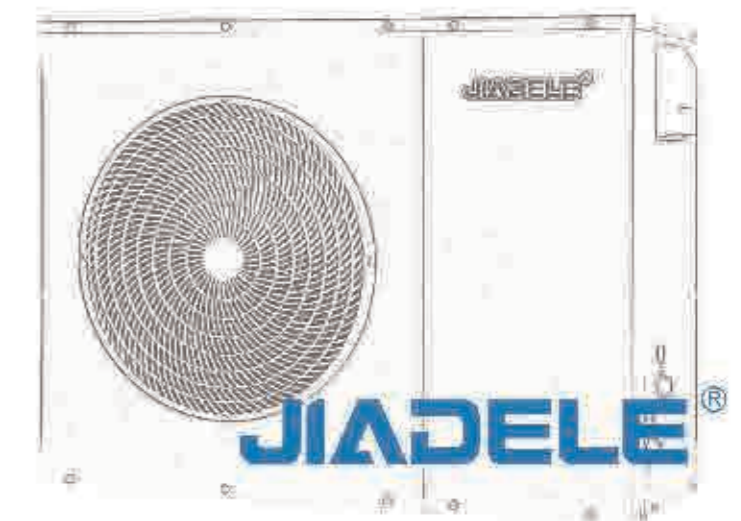
Add: No. 12, Fenghuang Road, Qianjiang Industrial Park,  
Dingqiao Town, Haining City, Zhejiang Province  
Tel:+86-573-87797662 87797671 Fax:+86-573-87797672  
E-mail: [webmaster@sh-jiadele.com](mailto:webmaster@sh-jiadele.com)  
[www.jdlheatpump.com](http://www.jdlheatpump.com)  
<https://zjjiadele.en.alibaba.com>

National Free Customer Service Hotline:

**4008221368**



All the company's products and data are constantly upgraded, the pictures and text in this brochure are for reference only.  
The Company has the final interpretative right of this brochure.





## CONTENTS

The advantages of air source heat pumps .....	<b>03-04</b>
The main components details .....	<b>05-06</b>
DC inverter monobloc type heat pump for heating & cooling .....	<b>07-08</b>
DC inverter split type heat pump for heating & cooling .....	<b>09-10</b>
DC inverter heat pump for heating, cooling & DHW .....	<b>11-12</b>
DC inverter split type heat pump combination of indoor unit and storage tank .....	<b>13-14</b>
R134A household all in one heat pump water heater .....	<b>15-16</b>
R290 household all in one heat pump water heater .....	<b>17-18</b>
Household split type heat pump hot water heater .....	<b>19</b>
Household water circulation heat pump water heater .....	<b>20</b>
DC inverter household swimming pool heat pump .....	<b>21-22</b>
ON/OFF household and commercial swimming pool heat pumps .....	<b>23-24</b>
Commercial medium-temperature heat pump water heater .....	<b>25-26</b>
Commercial ultra-low temperature heat pump for hot water & heating .....	<b>27-28</b>
Company profile .....	<b>29</b>
Jiadele project installation cases .....	<b>30-32</b>
One-stop service from Jiadele .....	<b>33-34</b>

CREATE A TOP-RANKING BRAND, CREATE A BETTER LIFE

# THE ADVANTAGES OF AIR SOURCE HEAT PUMPS



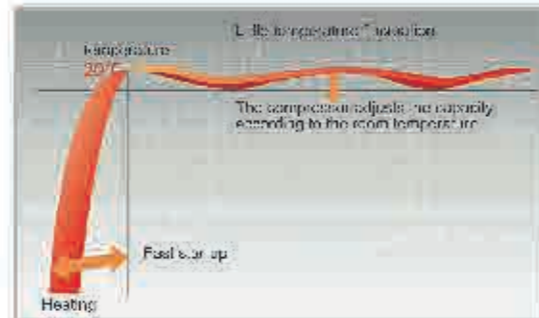
## 01 DC INVERTER Technology

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.



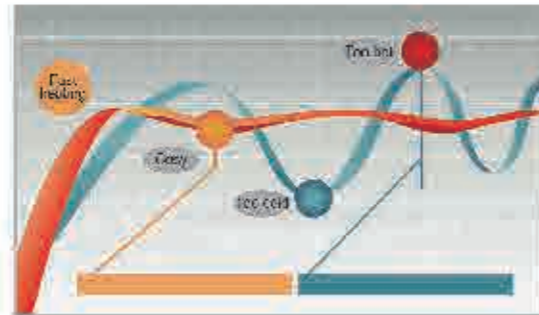
## 02 HIGH ACCURACY of Temperature Control

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.



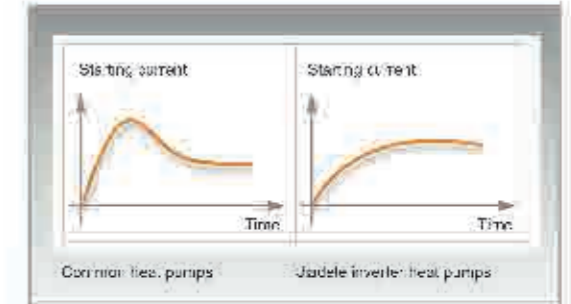
## 04 LOWER Noise

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



### PANASONIC COMPRESSOR

DC inverter scroll compressor, with 20% higher energy efficiency than that of traditional fixed frequency one, works quietly (with minimum 45dB(A) noise level, in 5m distance).



### WILO WATER PUMP

WILO pump, power consumption is 30% less than that of traditional water pump, ensuring trouble-free running all year round.



### INVERTER DRIVE

Using digital signal processing chips and PMSM sinusoidal wave control method, the power factor reaches 95%, working voltage range is larger and the units realize 1Hz control accuracy.



### BRUSHLESS DC FAN MOTOR

The brushless DC fan motor could realize stepless speed running under system pressure, realizing more than 30% energy saving.



### PATENT HEAT EXCHANGER

With strong countercurrent design, the JIADALE patent heat exchangers are conducive to improving the efficiency and reliability of heat pump.



### FIN TYPE HEAT EXCHANGER

Golden anti-corrosion aluminum fins specialized for heat pump, it is not easy to frost but easy to clean up, with durable lifespan of more than 10 years.



### CONTROLLER

The controllers with intelligent control and detection make the units more user-friendly.



### SANHUA ELECTRONIC EXPANSION VALVE

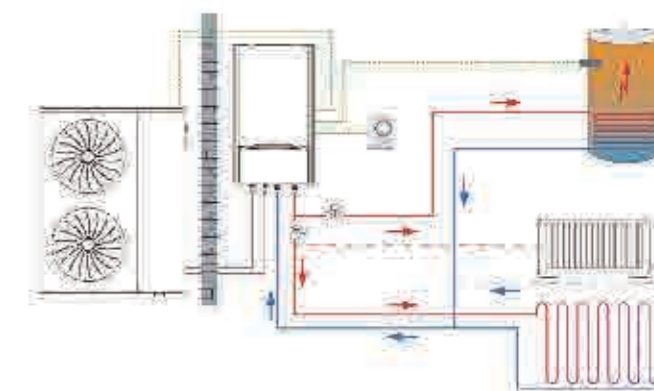
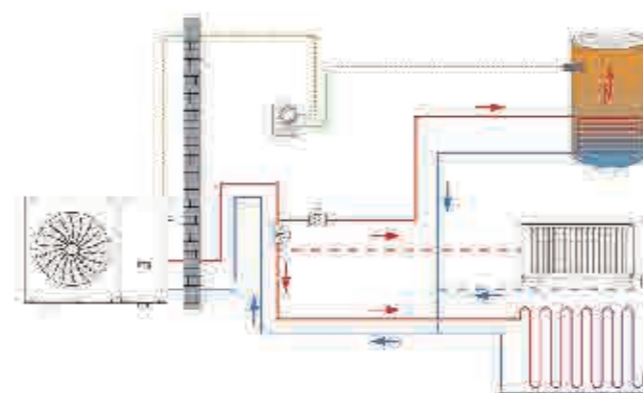
Smartly adjust the refrigerant flow volume, the units always work with high efficiency and reduce energy consumption.



M-thermal+ Underfloor Heating(Radiator) + Sanitary Tank

The system can be combined with:

1. Underfloor Heating or Radiator
2. Low temperature radiators to provide the maximized comfort for users.
3. A sanitary hot water tank to supply hot water needs.



### 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.



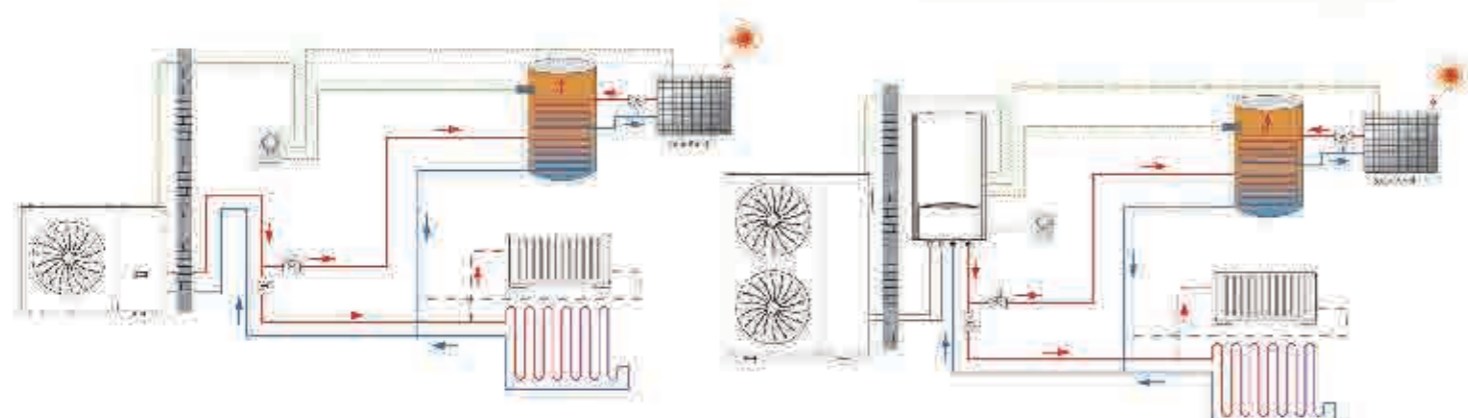
### WATER SPRAY

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

# DC inverter monobloc type heat pump for heating & cooling

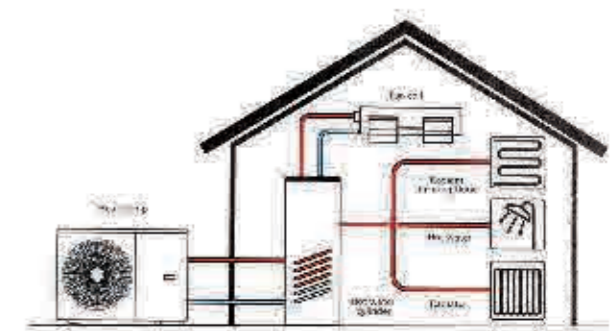


- M-thermal + Underfloor Heating(Radiator) + Sanitary Tank + Solar Panel  
The system can be combined with:
1. Underfloor Heating or Radiator
  2. Low temperature radiators to provide the maximized comfort for users.
  3. A sanitary hot water tank to supply hot water needs.
  4. Solar collectors with optional solar kit, to complement the production of hot water.



## Features

- Energy Class: A+++
- Multi-function of heating, cooling and hot water
- Full DC inverter compressor and fan motor, stable performance at -25°C
- Wired controller with Wifi smart control, R32 refrigerant, less GWP than R410A, environmental friendly
- Circulation water pump and 3KW backup electrical heater included



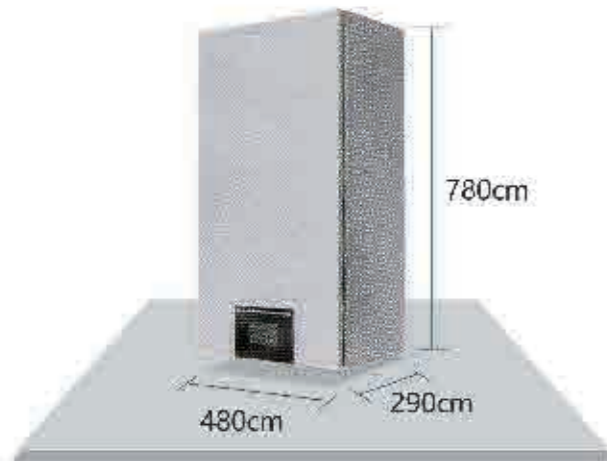
## DC INVERTER MONOBLOC TYPE HEAT PUMP FOR HEATING & COOLING

Water temperature		35°C	30°C	25°C	20°C	15°C	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C
Heating (kW)	Capacity	4.5	3.5	2.8	2.2	1.8	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.2
	COE	4.5	3.5	2.8	2.2	1.8	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.2
Cooling (kW)	Capacity	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	COE	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Hot Water (kW)	Capacity	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	COE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Water to Air (kW)	Capacity	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	COE	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Water to Water (kW)	Capacity	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	COE	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1

# DC inverter split type heat pump for heating & cooling



Flexible and Compact Design

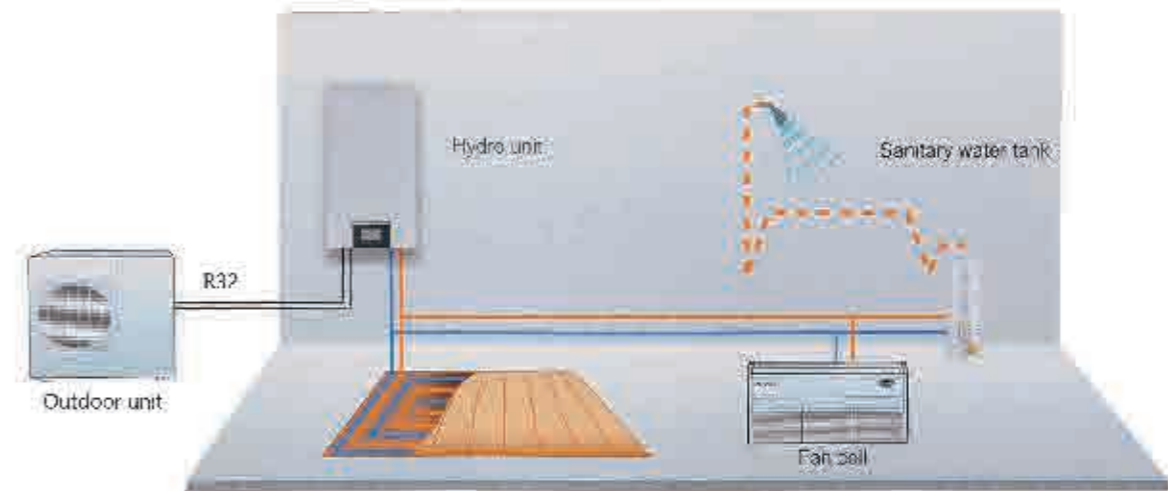


Compact design, easy for installation

Dimension (WxDxH)(mm)

**480x290x780mm**

Pressure safety, plate heat exchanger, expansion tank, water pump and control box all in one



## DC INVERTER SPLIT TYPE HEAT PUMP FOR HEATING & COOLING

MODEL / MODEL		480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	
MODEL / MODEL		480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	480x290x780mm	
Power supply	VP IN :	220V-240V														
heating 47W35	Capacity	kW	4.4	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.6	12.2
	Rated input	kW	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
	COE		4.4	4.2	4.0	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8
heating 47W45	Capacity	kW	4.1	4.7	5.3	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7	11.3	11.9
	Rated input	kW	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
	COE		4.1	3.9	3.7	3.5	3.3	3.1	2.9	2.7	2.5	2.3	2.1	1.9	1.7	1.5
heating 47W55	Capacity	kW	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0
	Rated input	kW	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7
	COE		3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.2
cooling 47W10	Capacity	kW	3.8	4.4	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.6
	Rated input	kW	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
	COE		3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.2
cooling 47W17	Capacity	kW	3.5	4.1	4.7	5.3	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7	11.3
	Rated input	kW	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7
	COE		3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.2	1.0	0.8	
SCOP	Water outlet at 55°C	2.7														
	Water outlet at 50°C	2.4														
Sound power level	dB	40	40	41	42	43	44	45	46	47	48	49	50	51	52	53
Compressor	type	Inverter DC Inverter														
Outdoor fan	Motor type	DC Fan														
	Number of fans	1														
Horizontal	Horizontal	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm
	Unit dimension (W*H*D)	480*290*780														
Packing dimension (W*H*D)	Horizontal	530*340*830														
	Vertical	530*340*830														
Net/Gr. weight	kg	12/15														
	kg	12/15														
Indoor air temperature range	Cooling	7~35														
	Heating	-5~40														
	DHW	20~40														
Water side heat exchanger	Plate type	Plate type														
	Water outlet temperature range	Cooling	7~35													
	Heating	20~40														
Water outlet temperature range	DHW	20~40														
	°C	20~40														

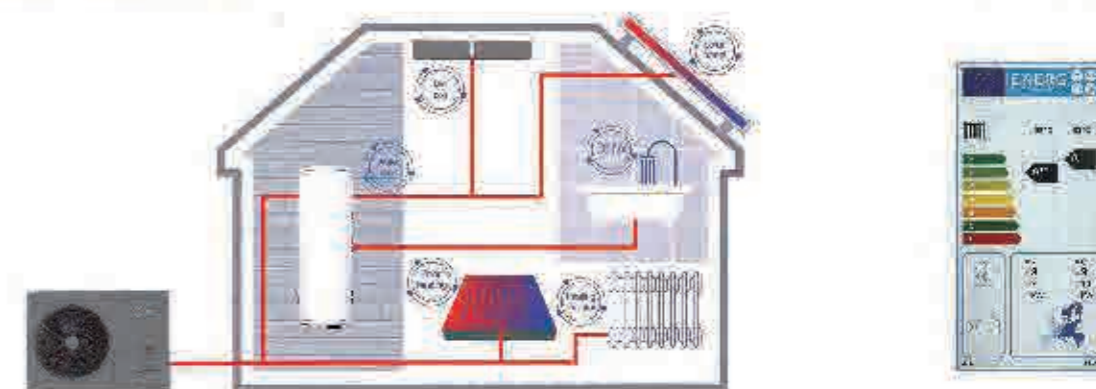
Note: 1. Outdoor air temperature 7°C DB, 65% RH; EWT 30°C, LWT 35°C; 2. Outdoor air temperature 7°C DB, 65% RH; EWT 40°C, LWT 45°C; 3. Outdoor air temperature 7°C DB, 65% RH; EWT 47°C, LWT 55°C; 4. Outdoor air temperature 35°C DB, 65% RH; EWT 23°C, LWT 18°C; 5. Outdoor air temperature 35°C DB, 65% RH; EWT 12°C, LWT 7°C; 6. Test standard: EN 14525

## DC inverter heat pump for heating, cooling & DHW

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



## Data parameters



Specification—Two In One water tank

	One Coil		Two Coil	
Basic volume(L)	200	300	200	300
Diameter(mm)	φ100	φ150	φ480	φ680
Material of tank	SJS304/316L	SUS304/316L	SJS304/316L	SUS304/316L
Inner tank thickness(mm)	1.5	1.5	1.5	1.5
Coil Dia*Ti thickness*Length(mm)(water-cooling)	∅	∅	φ20*1200	φ20*1200
Heat exchanger(m <sup>2</sup> )	∅	∅	0.9	0.9
Coil Dia*Ti thickness*Length(mm)(heat pump)	φ25*1800	φ25*1800	φ25*1800	φ25*1800
Heat exchanger(m <sup>2</sup> )	1.8	1.8	1.8	1.8
Cooling water port (inch)	G3/4 male	G3/4 female	G3/4 female	G3/4 female
Hot water outlet (inch)	G3/4 male	G3/4 male	G3/4 male	G3/4 male
Cold water inlet (inch)	G3/4 male	G3/4 male	G3/4 male	G3/4 male
Magnesium anode(mm)	φ22*300	φ22*300	φ22*300	φ22*300
Electric heating power (kw)	2/230	2/230	2/230	2/230
Temperature controller (°C)	05	05	05	05
Water water pressure(Mpa)	0.7	0.7	0.7	0.7
Max water operating pressure(Mpa)	1.0	1.0	1.0	1.0
Basic volume(L)	70L	100L	70L	100L
Diameter(mm)	φ480	φ150	φ480	φ680
Material of tank	SJS304	SUS304	SJS304	SUS304
Inner tank thickness(mm)	1.5	1.5	1.5	1.5
Quantity of circulating water port	4	4	4	4
Circulating water (inch)	G1 female	G1 female	G1 female	G1 female
Drainage port (inch)	G1/2 female	G1/2 female	G1/2 female	G1/2 female
Series Valve	D.3Mpa	D.3Mpa	D.3Mpa	D.3Mpa
Outside tank color	white/silver	white/silver	white/silver	white/silver
Outside tank material	galvanized steel	galvanized steel	galvanized steel	galvanized steel
Outside tank thickness (mm)	0.5	0.5	0.5	0.5
Insulating material	PU foam	PU foam	PU foam	PU foam
Net Dimensions(mm)	φ500*1820	φ700*1820	φ580*1820	φ700*1820
Net weight(kg)	∅	85	89	91
Packing Dimensions(mm)	640*640*1900	730*780*1900	640*640*1900	780*780*1900
Gross weight(kg)	90	110	90	110
Loading quantity of 40HQ	57	51	54	51
Loading quantity of 40HQ	22	24	22	24

## Various Tank Volumes



Suggested Match:



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.



4~6kW Heat Pump

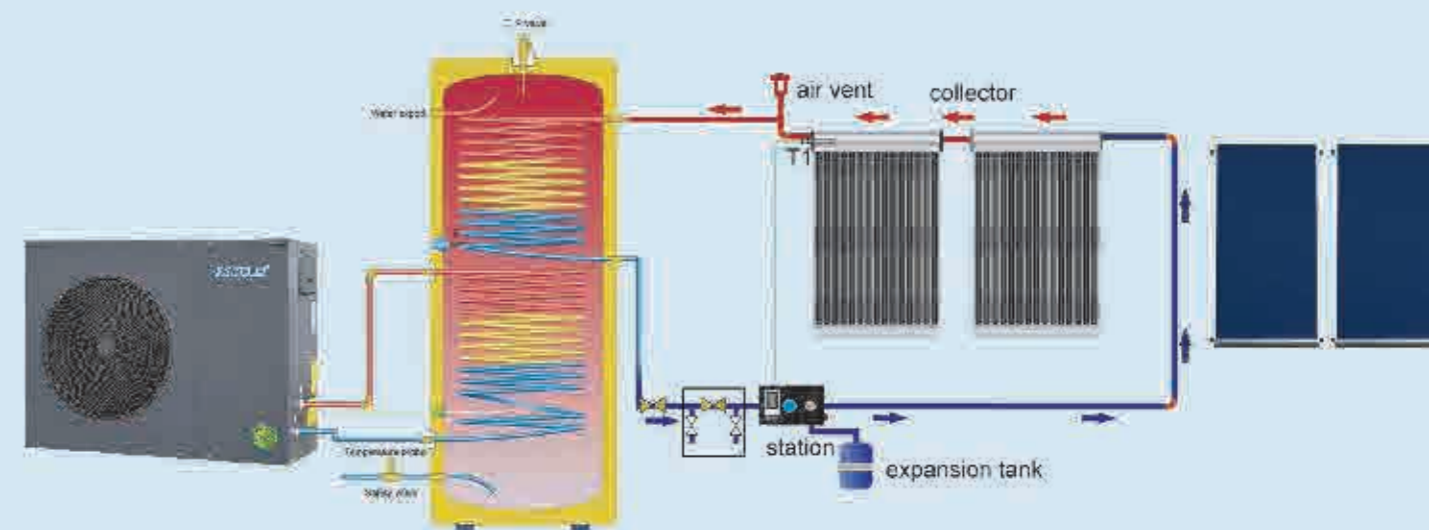


8~16kW Heat Pump



### Remark

1. The inner tank material: SUS304/316L stainless steel 1.2mm/1.5mm.
2. The out tank: color steel 0.5mm or SUS304-stainless 0.4mm
3. The heat insulation material: Polyurethane.
4. The thickness of the insulation: 50mm/60mm
5. The use pressure: 6 bar
6. The test pressure: 10 bar.
7. The accessories:
  - a. electrical heater
  - b. the temperature and pressure relief valve.
  - c. the sensor.
  - d. standard equipped with SUS316L steel coil heat exchanger
  - e. the drain pipe.
8. The installation method: customized according to customer requirements



Parameter Table

Type	Tank Specification	Outer Tank Diameter*Height	Inner Tank Diameter	Inner Tank Material	Heat exchange Area
JDL-120 One Coil	120L	φ180×1120	φ300	SUS304/SUS316×δ1.2	0.6m <sup>2</sup>
JDL-160 One Coil	160L	φ480×1450	φ300	SUS304/SUS316×δ1.2	0.72 m <sup>2</sup>
JDL-200 One Coil	200L	φ180×1670	φ300	SUS304/SUS316×δ1.2	0.84 m <sup>2</sup>
JDL-260 One Coil	260L	φ560×1800	φ300	SUS304/SUS316×δ1.2	0.96 m <sup>2</sup>
JDL-320 One Coil	300L	φ580×1780	φ300	SUS304/SUS316×δ1.2	1.10 m <sup>2</sup>
JDL-420 One Coil	420L	φ700×1980	φ300	SUS304/SUS316×δ1.5	1.31 m <sup>2</sup>
JDL-520 One Coil	520L	φ700×1980	φ300	SUS304/SUS316×δ1.5	1.76 m <sup>2</sup>
JDL-160 Two Coils	160L	φ480×1450	φ300	SUS304/SUS316×δ1.2	0.36 m <sup>2</sup> /0.72m <sup>2</sup>
JDL-200 Two Coils	200L	φ480×1670	φ300	SUS304/SUS316×δ1.2	0.48 m <sup>2</sup> /0.96m <sup>2</sup>
JDL-260 Two Coils	260L	φ580×1800	φ300	SUS304/SUS316×δ1.2	0.54 m <sup>2</sup> /1.08m <sup>2</sup>
JDL-320 Two Coils	300L	φ580×1780	φ300	SUS304/SUS316×δ1.2	0.72 m <sup>2</sup> /1.44m <sup>2</sup>
JDL-420 Two Coils	420L	φ700×1980	φ300	SUS304/SUS316×δ1.5	0.84 m <sup>2</sup> /1.68m <sup>2</sup>
JDL-520 Two Coils	500L	φ700×1980	φ300	SUS304/SUS316×δ1.5	0.96 m <sup>2</sup> /1.92m <sup>2</sup>





## 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 rate up to A.

### Details

- Sapphire glass fiber fan blades are strong and durable, with the characteristics of quiet, flame retardant, high temperature resistance, corrosion resistance, and high mechanical strength.
- Framed water tank: Anti-corrosion, Corrosion-resistant, Waterproof scale.
- Selected compressor is compatible with other components of the unit to ensure best performance.
- Air exchanger (fin coil) with hydrophilic coating is not easy to condensate and has high efficiency.
- 50mm foaming insulation material ensures a great insulation for the tank.
- Intelligent defrosting technology is able to solve the frosting problem in heat exchanger greatly in low ambient temperature.
- The fashionable appearance will be inviting in your room anywhere and compatible with your room furniture.
- Heating coil wrapped outside the tank greatly prolongs the working life for the unit. And make the hot water more stable.
- The temperature of the water tank could be detected more accurately by setting two sensors on the top and bottom of the water tank.
- Refrigerant R134a is more environmentally-friendly and does no harm to ozone sphere.
- Electrical heating element inside will be the backup for emergent request.
- Expansion valve controls the refrigerant volume accurately and reduces energy consumption.
- The electric isolators set in water inlet/outlet efficiently protect the water from electric leakage.
- All-in-one noise reduction design provides users a super quiet operation environment.
- It can operate freely at high and low temperatures, adopts a waterway system with antifreeze protection function, and can be used normally at least -7°C, the hot water pipeline system can also be used normally as high as 45°C.



R134A household all in one heat pump water heater			
Model	JHP-6150LD/YT/A	JHP-6200LD/YT/A	JHP-6300LD/YT/A
Product Dimensions	φ570*1615	φ570*1630	φ610*2020
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	150L	200L	300L
Heating capacity	18kW	18kW	24kW
Rated input power	450W	450W	675W
Maximum input power (include electric heating)	2635W	2605W	2680W
Maximum current	12.2A	12.2A	13.4A
COP	4.1	4.1	3.68
Refrigerant	R134a	R134a	R134a
Compressor	GMCC	GMCC	Panasonic
Four-way valve	S11-1	S11-1	S11-1
Fitting 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	YDK2532	YDK2532	YDK2532
Fan	φ180	φ180	φ180
Wiring controller	Digital screen, touch buttons	Digital screen, touch buttons	Big ta. screen, touch buttons
Highflow pressure switch	2.8~2.4Mpa/0.15Mpa	2.8~2.4Mpa/0.15Mpa	2.8~2.4Mpa/0.15Mpa
Power cord specifications	3m X 1.5mm <sup>2</sup>	3m X 1.5mm <sup>2</sup>	3m X 2.5mm <sup>2</sup>
Heating rate	39 L/h	39 L/h	52 L/h
Max outlet water temperature (heat pump mode)	70°C	70°C	73°C
Rated outlet water temp.	45°C	45°C	45°C
Ambient temperature	-7~45°C	-7~45°C	-7~45°C
Waterproof level	IPX4	IPX4	IPX4
Noise	≤52 dBA(A)	≤52 dBA(A)	≤53 dBA(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"	G3/4"
Heat exchanger type	External double copper pipe	External double copper pipe	External double copper pipe
Built in pressure protection	0.8MPa	0.8MPa	0.8MPa
Auxiliary electric heating	2000W	2000W	2300W
Accessory Eqg	one G1/2 relief valve,one pipe adapter, Manual	one G1/2 relief valve,one pipe adapter, Manual	one G3/4 relief valve, Manual
Packing Dimensions(L x W x H) (carton and pallet) mm	645*645*1080	645*645*970	740*740*2200
Net Weight	42 Kg	48 Kg	132 Kg
Operating ambient temperature	-7~45°C	-7~45°C	-7~45°C

### Notes

- The specification are based on the following conditions: DB:W/R 20°C/15°C; Water temperature from 15°C to 65°C; Applicable ambient temperature: 7~45°C.
- The data above is for reference only. The specific parameters are subject to product nameplate.

# R290 household all in one heat pump water heater

Jiadele 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.



GWP3 which is 477 times lower comparing with R134a  
Micro channel heat exchanger can improve the COP effectively



R290 household all in one heat pump water heater		
Product Dimensions	Φ 513*2100 (100L)	Φ 640*1975(300L)
Power supply	220 ~ 240V/50Hz	220 ~ 240V/50Hz
Heating capacity	1750W	2800W
Rated input power	380W	480W
Maximum input power	2630W	2635W
Maximum current	12A	15.15A
COP	5.0	5.2
Refrigerant	R290	R290
Compressor	Highly rotary	SMC Rotary
Four-way valve	Sanhua SH-1	Sanhua SH-1
Throttling device	Electronic expansion valve	Electronic expansion valve
Condenser	Φ 2 hydrophilic aluminum foil	Φ 2 hydrophilic aluminum foil
Motor	DC motor	DC motor
Coil flow fan	Φ 300	Φ 320
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	2.0 ~ 2.4 MPa (0.05-0.15MPa)	2.0 ~ 2.4 MPa (0.05-0.15MPa)
Evaporator specifications	(HSW2601) 3*1.5m <sup>2</sup>	(HSW2601) 3*1.5m <sup>2</sup>
Hot water yield	38L/h	51L/h
Max. outlet water temperature	41°C	42°C
Running ambient temperature	-1°C ~ 43°C	-10 ~ 43°C
Waterproof level	IPX4	IPX4
Noise level	≤45dB(A)	≤50dB(A)
Gross Weight/Net Weight	05kg	122kg
Outer tank material	Galvanized sheet painting	Galvanized sheet painting
Inner tank material	Enamel	Enamel
Inlet/outlet port size	G1/2"	G1/2"
Heat exchanger type	Microchannel heat exchanger	Microchannel heat exchanger
Build in pressure protection	0.8MPa	0.8MPa
Auxiliary electric heating	2000W	2000W
Storage size	190L	300L
Packing Dimensions(L x W x H)	600*565*2350 (carton and pallet)	740*740*2140 (carton and pallet)

1. The specification are based on the following conditions: DB/WB 20/15°C, Water temperature from 15°C to 35°C, Application ambient temperature -10~45°C.  
2. The data above is for reference only. The specific parameters are subject to product nameplate.



## Household split type heat pump water heater

Starting an Energy Efficient New Life

**Features:** This product is equipped with two temperature sensors in the water tank, which can control the panel to reset the water capacity of the water tank according to the number of people at home. Thus achieving a shorter heating time and more energy-efficient.

Household split type heat pump hot water heater							
Product model	JDLKFB04Y10CL	JDLKFB04Y150L-1	JDLKFB10Y150L-2	JDLKFB10Y200L-2	JDLKFB15Y260L-1	JDLKFB15Y300L-1	JDLKFB20Y360L-1
Power supply	220V/240V~50Hz						
Tank capacity	100L	150L	150L	200L	230L	300L	350L
Applicable number	2-3	2-3	2-3	3-4	4-5	5-6	3-10
Rated heat production	3500W	3500W	4800W	4800W	6800W	6800W	9300W
Rated input power	310W	310W	1205W	1205W	1670W	1670W	2200W
Water working current	4.3A	4.3A	5.6A	5.6A	7.6A	7.6A	11A
Water yield	75L/h	75L/h	136L/h	136L/h	146L/h	146L/h	270L/h
Maximum input power	1250W	1250W	1500W	1500W	2500W	2500W	3500W
Maximum working current	6.0A	6.0A	7.2A	7.2A	12.0A	12.0A	17.0A
Rated water outlet temperature	55°C	55°C	55°C	55°C	55°C	55°C	55°C
Noise	≤52dB(A)	≤52dB(A)	≤54dB(A)	≤54dB(A)	≤55dB(A)	≤55dB(A)	≤55dB(A)
Refrigerant							
Weight		20kg	30kg	35kg	41kg	41kg	53kg
Operating environment temperature range	-7°C~49°C	-7°C~49°C	-7°C~49°C	-7°C~49°C	-7°C~49°C	-7°C~49°C	-7°C~49°C
Main engine dimensions	750×290×540mm			840×290×600mm		900×340×700mm	
Host package size	650×390×600mm			655×365×650mm		1020×125×760mm	
External dimension of water tank	Φ480×1000mm	Φ480×1300mm	Φ480×1300mm	Φ480×1600mm	Φ590×2000mm	Φ590×2000mm	Φ700×1900mm

1. Heating: Ambient temp.(DB/WB):20°C/15°C, water temp.(input/output):15°C/55°C.  
 2. Due to product improvement, the parameters in the table are subject to change without prior notice.

## Household water circulation heat pump water heater

More secure, intelligent, and convenient

**Features:** The main unit has a water pump circulation system installed, no need heating, ensuring safety and convenience. The unit can be directly connected to the customer's water tank at home, once connected to the power supply. As long as you know water supply and heating engineering, you can operate it.



Household water circulation heat pump water heater				
Model	JDLKFB04	JDLKFB10X	JDLKFB15X	JDLKFB20X
Power Supply	220V~50Hz			
Rated Heating Capacity (kW)	3.65	5	7	9
Rated Input Power (kW)	0.86	1.3	1.84	2.36
Rated Working Current (A)	4.3	7	9.8	12.2
Mechanical Power (W)	1.35	1.93	2.74	3.63
Max working current (A)	6.5	9.8	13.3	17.0
Max water temperature	60	60	60	60
Hot water yield	78	107	150	193
Circulation Pipe Diameter	DN20	DN20	DN25	DN25
Rated Circulation Water	11.7	1.9	1.5	1.3
Water Pressure Loss	30	35	35	40
Noise level	≤53dB(A)	≤55dB(A)	≤55dB(A)	≤55dB(A)
Refrigerant	R410A/R32			
Net Dimension (L*W*H)	380*290*610		410*370*630	
Weight	43	75	81	85

1. Heating: Ambient temp.(DB/WB):20°C/15°C, water temp.(input/output):15°C/55°C.  
 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

## Full Inverter

1. Full Inverter Technology
2. With full inverter technology, pool water temperature will be maintained or can be controlled to as precise as 0.2°C difference to target temperature
3. Compared to normal compressor, Mitsubishi compressor can save energy saving performance up to 30% higher
4. Stable running
5. Low noise level
6. Available with HSC

## APP & WiFi Control

Via connection by WiFi and APP, you can take full control of your swimming pool heat pump from anywhere in your home or office with a mobile app on your smart phone.



CB CE ERP RoHS SAA

DC INVERTER HOUSEHOLD SWIMMING POOL HEAT PUMP			JDJBY-011-2	JDJBY-011-1	JDJBY-011-1	JDJBY-1301-1	JDJBY-1601-1
Temperature			702				
Power supply	VPH/Hz		220-240V/50				
YL-HC1-Heating A2/W26°C	Heating capacity	KW	3.2	6	6.6	12	15.2
		BTU/h	1247	1567	2271.2	3113.5	3917
	Power input	KW	0.39	0.51	1.18	1.63	2.3
	Current	A	2.7	4.1	5.4	7.5	10.3
	EOP	WW	0.4	0.1	7.0	7.3	6.6
YL-HC2-Heating A16/W26°C	Heating capacity	KW	2.7	4.5	6.4	3.0	11
		BTU/h	9213	15366	21930	20311	37531
	Power input	KW	0.41	0.54	1.25	1.48	2.31
	Current	A	2.8	4.5	5.7	7.9	10.6
EOP	WW	4.4	4.9	5.1	5.0	4.7	
YL-C01-Cooling A35/W30°C	Cooling capacity	KW	1.8	4.3	5.4	7.6	8
		BTU/h	6142	14672	18426	25922	27292
	Power input	KW	0.7	1.3	1.7	2.3	2.1
	Current	A	3.2	5.9	7.7	10.5	14.1
EOP	WW	2.6	3.3	3.2	3.3	2.6	
YL-C02-Cooling A43/W30°C	Cooling capacity	KW	1.2	3.2	4.1	5.6	4.8
		BTU/h	4095	12025	13990	19119	16376
	Power input	KW	0.33	1.4	1.57	1.6	2.4
	Current	A	2.5	6.1	7.1	8.2	10.9
EOP	WW	1.3	2.3	2.6	3.1	2.0	
OPERATING	Water outlet temperature	°C	15-35	15-40	15-40	15-40	15-40
	Ambient temp range	°C	5-33	5-43	-10-43	-15-43	-10-43
F.A.I	Compressor brand	GMCC	MITSUBISHI ELECTRIC				
	Compressor type		Rotary*1	Rotary*1	Rotary*1	Rotary*1	Rotary*1
EXCHANGER	Controller		Micro processor based digital controller with LCD touch screen display				
	Noise	dB(A)	52	47	50	52	54
MAX	Power input	KW	0.95	1.5	2.2	2.6	3.3
	Current	A	4.3	6.8	10.0	11.8	15.0
RTX	Type		Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
	Standard water flow	m³/h	1.6	2.6	3.7	4.9	6.7
	Suggested water flow	m³/h	1.22	2.3	3.5	4.26	6.8
	Water pressure drop(max)	KPa	4	4	6	6	2
	Water pipe						
WATER CONNECTION	Water connection	mm	75	50	50	50	50
	Position		Side	Side	Side	Side	Side
FIN	Material		Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	m³/h	1300	1500	1800	2531	2811
TEMPERATURE	mm	425/325/400	395/345/400	395/355/400	395/395/420	395/355/420	
WEIGHT	kg	22.5/24	33/36	37/40	40/44	45/47	

# ON/OFF HOUSEHOLD AND COMMERCIAL SWIMMING POOL HEAT PUMPS

make professional solution for dehumidification and constant temperature



## Centralized Control

JIADELE EcoMaster Pool Heat Pump is designed with centralized control function that make temperature adjustment and failure review easier. By incorporating the master-slave control into the design, the whole units can work together with higher efficiency without interfered by any failure of the slave unit during operation.

1. Available with R32 and R410A
2. Reliable operation performance tested and approved by various inspection, such as transportation test, rain resistance test.

## Smart PCB

with a precise temperature control system makes the main board to operate at high speed. Meanwhile, the main board is designed with an interface which is beneficial for central control system of your pool.

## Save Energy and Speed up Heating Time

The units can change the operating frequency of its compressors and fan motors automatically according to user's heating or cooling demand, achieving stepless and fast heating.

## Intelligent Defrosting/Automatic defrosting function

The four-way valve defrosting technology can automatically start defrosting according to the ambient temperature, plus a specially designed chassis with two drainage holes, the unit always runs in high efficiency.

## Compact structure, easy demountable for access.



## High Efficiency

With COP of 5.7 at working condition of 24°C/19°C(DB/WB), the EcoMaster Series has high efficiency for either pool cooling or heating.



Titanium tube heat exchanger

## Dual Coil Titanium Heat Exchanger

Compared with normal single coil heat exchangers, JIADELE patented dual coil titanium heat exchanger enlarges the heat exchanging surface that increases efficiency by providing a sufficient action area.



Titanium tube heat exchanger

## Compressor

The compressor with precise energy stage setting ensures the excellent performance of energy savings.

CB CE ERP RoHS SAA

## ON/OFF HOUSEHOLD AND COMMERCIAL SWIMMING POOL HEAT PUMPS

	Refrigerant	R32				R410A				
		Model	JDLKRY-6FE1	JDLKRY-8FE1	JDLKRY-10FE1	JDLKRY-12FE1	JDLKRY-15FE1	JDLKRY-18FE1	JDLKRY-20FE1	JDLKRY-25FE1
YL-H01 Heating: 424/19°C	Power supply	220-240V/50	220-240V/50	220-240V/50	220-240V/50	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz
	Heating capacity	kW	4.8	7.4	12.6	18	26	36	49	98
	Power input	kW	0.8	1.16	2.03	2.9	4.4	6.6	9.0	17.9
	Current	A	3.7	5.4	9.3	13.2	20	29	40	81
YL-H02 Heating: 415/19°C	Heating capacity	kW	9.9	16.7	28.6	42.2	61.7	84	113	226
	Power input	kW	1.92	2.7	4.64	6.78	9.8	13.5	18.4	36.4
	Current	A	8.8	12.7	21.1	30.8	44.5	60.9	83.6	168
	COP	W/W	4.8	5.7	6.7	6.8	6.7	6.7	6.7	6.7
YL-C01 Cooling: 435/19°C	Cooling capacity	kW	3.2	5.2	7.7	11.1	12.8	14.5	29	59
	Power input	kW	1.26	1.8	2.79	3.9	4.7	5.5	10.5	22
	Current	A	5.8	8.4	12.3	18	21	25	47	93
	EER	W/W	2.5	2.9	2.8	2.8	2.8	2.7	2.7	2.8
YL-C02 Cooling: 413/19°C	Cooling capacity	kW	2.24	4.2	6.9	10.6	10.6	19	34	66
	Power input	kW	1.25	1.86	2.95	4.3	4.3	8	12	23
	Current	A	5.6	8.6	13.4	19	19	35	52	92
	EER	W/W	1.8	2.2	2.1	2.4	2.4	2.2	2.3	2.3
OPERATING	Water outlet temperature	°C	15-18	15-18	15-18	15-18	15-18	15-18	15-18	15-18
	Ambient temperature	°C	-4-43	-4-43	-4-43	-4-43	-4-43	-4-43	-4-43	-4-43
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 with LCD touch screen display								
MAX	Power input	kW	1.5	2	3.1	4.3	5	12	23	
	Current	A	6.8	9.3	14	19	22	52	92	
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	4.5	6.4	8.6	9.4	19	38
	Suggested water flow	m³/h	1.8-3	3-5	4-6	6-8.5	8-10	9-11	18-21	38-43
	Water pressure drop(max)	kPa	4	5	10	14	15	16	16	16
	Water connection	mm	50	53	50	50	40	40	50	50
FAN	Position	Side	Side	Side	Side	Vertical	Vertical	Vertical	Vertical	
	Material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	metal	
DIMENSIONS (L x W x H)	air flow	m³/h	1400	1800	3000	3000	5600	6500	13000	26000
	Net	mm	865/356/570	895/396/570	1080/425/659	1360/425/656	260/750/1000	750/750/1100	1560/630/1100	2000/1000/2070
WEIGHT	kg	10/12	10/12	16/22	20/24	20	190	250	510	

# Commercial medium-temperature heat pump water heater

Various models meet all-round needs



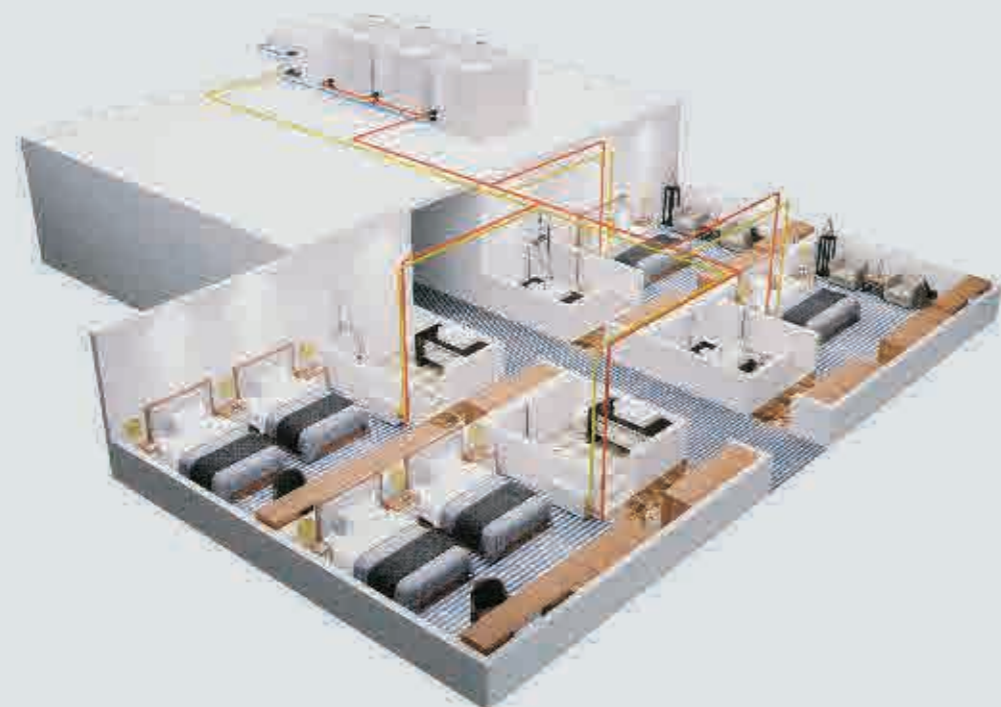
Commercial medium-temperature heat pump water heater

Factory P	7	2P	3P	3P	4P	10P	20P	30P
Factory Model		JDLKXHS-7 T.A (C1)	JDLKXHS-10 T.A (C1)	JDLKXHS-11 T.A (C2)	JDLKXHS-11 T.A (C2)	JDLKXHS-36 T.A (C2)	JDLKXHS-75 T.A (C2)	JDLKXHS-110 T.A (C2)
Power Supply		220V/50Hz	220V/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
Protection Grade		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Rated Heating Capacity	kW	7.0	10.5	10.5	19.0	38.0	75.0	110.0
Rated Input Power	kW	1.56	2.47	2.46	4.26	8.17	16.03	22.68
COP	W/W	4.21	4.26	4.26	4.44	4.42	4.36	4.85
Max Input Power	kW	2.13	3.24	3.21	5.75	11.03	21.80	29.70
Max Heating Current	A	11.0	16.1	16.1	22.2	39.2	45.6	62.7
Max Water Temperature	°C	65	65	65	65	65	65	65
Water Yield	L/h	141	226	226	403	775	1575	2365
Rated Circulating Water	m³/h	1.2	1.8	1.8	3.3	6.2	12.0	18.3
Water Pressure Loss	kPa	25	30	30	60	90	90	100
Exhaust Air/Absorb Air Max Working Pressure	MPa/MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Noise	dB(A)	≤45	≤48	≤48	≤52	≤54	≤56	≤60
Net Dimension	mm	676×676×700	700×700×1000	700×700×1000	800×800×1100	1020×950×1160	2150×1200×765	2342×1170×2125
Packing Dimension	mm	626×626×840	680×740×1040	680×740×1060	720×860×1265	1740×1000×1300	2230×1330×965	2120×1220×2305
Machine Weight	kg	60	129	122	135	240	530	640
Packing Weight	kg	65	140	129	230	300	640	830
Circulating Pipe Diameter	DN	DN15	JN25	DN25	DN32	DN40	DN50	DN65
Exhaust Div	Yes	√	√	√	√	2	2	2
Motor Type/Qty	Yes	AC motor/1	AC motor/1	AC motor/1	AC motor/1	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
Throttle mode	Type	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
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

Testing method:  
 1. Heating: Ambient temp. (DD/WZ):20°C/15°C, water temp.(input/output):15°C/55°C.  
 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 HOT WATER & HEATING

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℃.

### 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

Factory P	/	15P	30P	60P
Model	/	JHL-150X/D1E3P1-A	JHL-300X/D1E3P4-A	JHL-600X/D1E3P4-A
Power supply	/	380V/3N~50Hz	380V/3N~50Hz	380V/3N~50Hz
*Rated Heating capacity	KW	28.0	56.0	112.0
*Rated Input Power	KW	11.8	23.6	47.2
*Rated working current	A	26.0	52.0	104.0
*COP	/	2.37	2.38	2.38
**15℃ Heating capacity	KW	25.0	50.0	100.0
**15℃ Input Power	KW	10.8	21.6	43.2
**COP	/	2.31	2.31	2.31
***-20℃ Heating capacity	KW	20.0	40.0	80.0
***-20℃ Input Power	KW	9.2	18.4	36.8
***COP	/	2.17	2.17	2.17
Max Input Power	KW	16.5	33.0	66.0
Max working current	A	30.0	60.0	120.0
Rated Cooling capacity	KW	26.0	52.0	104.0
Rated Cooling Power input	KW	10.0	20.0	40.0
Rated cooling working current	A	22.0	44.0	88.0
EER	/	2.6	2.6	2.6
Rated Circulating Water	m³/h	6.6	13.2	26.4
Max water temperature	℃	60.0	60.0	60.0
Water Pressure Loss	kPa	80	80	90
Circulating Pipe Diameter	mm	DN40 (male)	DN50 (female)	DN65 (male)
Refrigerant	/	R410A	R410A	R410A
Noise level dB	/	≤56	≤72	≤75
Net Dimension	mm	1750*800*1700	2000*1000*2100	2320*220*2020
Weight	kg	400	800	1250



# 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 60 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.



## JIADELE PROJECT INSTALLATION CASES





# JIADELE PROJECT INSTALLATION CASES



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



- ① Provide professional hot water project solutions to control costs and increase production efficiency
  - ② Improve the overall service level according to the continuous innovation of customers' requirement.
  - ③ 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.

## One-stop service

