

# JIADELE®

TECHNOLOGY LEADING,  
ENERGY SAVING INFINITE



# ZHEJIANG JIADELE TECHNOLOGY CO., LTD.

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



# JIADELE SWIMMING POOL HEAT PUMP

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

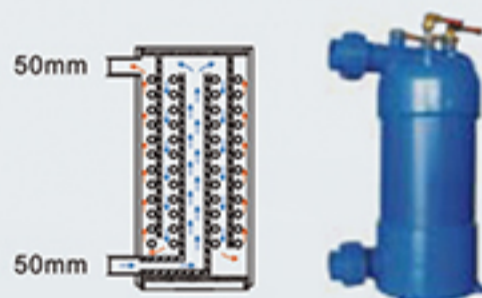
The four-way valve defrosting technology can automatically start defrosting according to the ambient temperature, plus a specially designed chasis with two drainage holes, the unit always runs in high efficiency.

Compact structure, easy demountable for access.

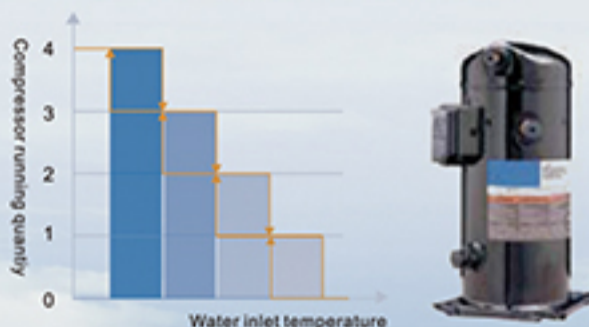


## High Efficiency

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



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.

## Compressor

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

CB CE ERP RoHS 



## JIADELE SWIMMING POOL HEAT PUMP

			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°C	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°C	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°C	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°C	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	°C	15-40	15-40	15-40	15-40	15-40	15-40	15-40	15-40
	Ambient temp.range	°C	-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 with LCD touch screen display							
	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



# JIADELE HOUSEHOLD INVERTER SWIMMING POOL MACHINE

make professional solution for dehumidification and constant temperature

## Full Inverter

### 1. Full Inverter Technology

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.

2. Compared to normal compressor, Mitsubishi compressor can raise energy saving performance up to 30% higher.

3. Stable running

4. Low noise level

5. Available with R32

## APP& WiFi Control

Via connection by Wi-Fi and 4G, you can take full control of your swimming pool heat pump from anywhere in your home or office with a single app on your smart phone.





## JIADELE HOUSEHOLD INVERTER SWIMMING POOL MACHINE

			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°C	Heating capacity	kW	3.8	6	8.6	12	15.2
		BTU/h	1.2-4.5	1.5-7	2.2-10.2	3.1-13.5	3.9-17
	Power input	kW	12966	20473	29344	40946	51865
	Current	A	0.69	0.95	1.18	1.65	2.3
	COP	W/W	3.1	4.3	5.4	7.5	10.5
YL-H02-Heating: A15/W26°C	Heating capacity	kW	2.7	4.5	6.4	8.6	11
		BTU/h	1-3.1	1.1-5.2	1.7-7.5	2.3-9.5	2.8-12.4
	Power input	kW	9213	15355	21838	29344	37534
	Current	A	0.68	0.98	1.25	1.73	2.34
	COP	W/W	3.1	4.5	5.7	7.9	10.6
YL-C01-Cooling: A35/W30°C	Cooling capacity	kW	2	4.3	5.4	7.6	8
		BTU/h	6824	14672	18426	25932	27297
	Power input	kW	0.7	1.3	1.7	2.3	3.1
	Current	A	3.2	5.9	7.7	10.5	14.1
	EER	W/W	2.9	3.3	3.2	3.3	2.6
YL-C02-Cooling: A43/W30°C	Cooling capacity	kW	1.2	3.7	4.1	5.6	4.8
		BTU/h	4095	12625	13990	19108	16378
	Power input	kW	0.6	1.4	1.57	1.8	2.4
	Current	A	2.7	6.4	7.1	8.2	10.9
	EER	W/W	2.0	2.6	2.6	3.1	2.0
OPERATING	Water outlet temp.range	°C	15-40	15-40	15-40	15-40	15-40
	Ambient temp.range	°C	10-43	-10-43	-10-43	-10-43	-10-43
HEAT EXCHANGER	Compressor brand		GMCC		MITSUBISHI ELECTRIC		
	Compressor type		Rotary*1	Rotary*1	Rotary*1	Rotary*1	Rotary*1
	Controller		Micro processor based digital controller with LCD touch screen disply				
	Noise	dB(A)	48	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
KEY	Type		Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Standard water flow	m³/h	1.6	2.6	3.7	5.2	6.7
	Suggested water flow	m³/h	1-2	2-3	3-5	4.2-6	6-8
	Water pressure drop(max)	KPa	5	4	6	8	12
	Water connection	mm	25	50	50	50	50
FAN	Position		Side	Side	Side	Side	Side
	Material		Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	m³/h	1000	1300	1800	2500	2800
DIMENSIONS (L x W x H)	Net	mm	430/325/430	995/396/570	995/396/570	995/396/570	995/396/570
WEIGHT		kg	20/22	35/38	45/48	52/56	53/57





## 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.

### Details

1. 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.
2. Enamel water tank : Anti-corrosion, Corrosion-resistant, Waterproof scale.
3. Selected compressor is compatible with other components of the unit to ensure best performance.
4. Air exchanger (fin-coil) with hydrophilic coating is not easy to condensate and has high efficiency.
5. 50mm foaming insulation material ensures a great insulation for the tank.
6. Intelligent defrosting technology is able to solve the frosting problem in heat exchanger greatly in low ambient temperature.
7. The fashionable appearance will be inviting in your room anywhere and compatible with your room furniture.
8. Heating coil wrapped outside the tank greatly prolongs the working life for the unit. And make the hot water more stable.
9. The temperature of the water tank could be detected more accurately by setting two sensors on the top and bottom of the water tank.
10. Refrigerant R134a is more environmentally-friendly and does no harm to ozone sphere.
11. Electrical heating element inside will be the backup for emergent request.
12. Expansion valve controls the refrigerant volume accurately and reduces energy consumption.
13. The electric isolators set in water inlet/outlet efficiently protect the water from electric leakage.
14. All-in-one noise reduction design provides users a super quiet operation environment .
15. 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.





### All In One Heat Pump Water Heater ( Top Blow)

Model	JHR18-150LD/YT/A	JHR18-200LD/YT/A	JHR25-300LD/YT/A
Product Dimensions	φ570*1515	φ570*1800	φ 640*2020
Power supply	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank volume	150 L	200 L	300 L
Heating capacity	1800 W	1800 W	2420 W
Rated input power	470 W	470 W	623W
Maximum input power (include electrical heating)	2685 W	2685 W	2890 W
Maximum current	12.2 A	12.2 A	13.4 A
COP	3.82	3.82	3.88
Refrigerant	R134a	R134a	R134a
Compressor	GMCC	GMCC	Panasonic
Four-way valve	SHF-4	SHF-4	SHF-4
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	YDK25/32	YDK25/32	YDK25/32
Fan	φ190	φ190	φ 190
Wire controller	Digital screen, touch buttons	Digital screen, touch buttons	Digital screen, touch buttons
High/low pressure switch	2.8 ~ 2.4/0.05-0.15 Mpa	2.8 ~ 2.4/0.05-0.15 Mpa	2.8 ~ 2.4/0.05-0.15 Mpa
Power cord specifications	3m X 1.5mm <sup>2</sup>	3m X 1.5mm <sup>2</sup>	3m X2.5mm <sup>2</sup>
Heating rate	39 L/h	39 L/h	52L/h
Max outlet water temperature (heat pump mode)	70℃	70℃	70℃
Rated outlet water temp	55℃	55℃	55℃
Ambient temperature	- 7~45℃	- 7~45℃	- 7~45℃
Waterproof level	IPX4	IPX4	IPX4
Noise	≤52 dB(A)	≤52 dB(A)	≤53 dB(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	2000 W	2000 W	2000 W
Accessory Bag	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*1680	645*645*1970	740*740*2200
Net Weight	82 Kg	98 Kg	132 Kg
Operating ambient temperature	- 7~45℃	- 7~45℃	- 7~45℃

**Notice:**

- 1.The specification are based on the following conditions: DB/WB 20℃/15℃, Water temperature from 15℃ to 55℃, Applicable ambient temperature -7~45℃.
- 2.The data above is for reference only. The specific parameters are subject to product nameplate.



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

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