



POWER WORLD

THE POWER TO PROMOTE WORLD DEVELOPMENT!

SWIMMING POOL HEAT PUMP

Enjoy The Swimming Time On Every Season



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2024 PRODUCT CATALOGUE

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Factory Advantages



Power World Machinery Equipment Co., Ltd. is one of the largest air to water heat pump manufacturers and service providers in China, an innovative pioneer in the zero-carbon heat pump field, continuously honored with the top 10 leading brands in China. In the past 20 years, we have been focused on the R&D, production and sales of heat pumps, committed to providing high-quality heating and cooling solutions to users around the world.

Technology Strength

We always focus on technological innovation and quality management. At present, our company has 35 senior technical engineers and 500+ experienced production workers and has obtained 400+ product patents. The products have passed CE, IEC, ERP, SAA, CB, ROHS, MCS, and other certifications, and passed the European EN14825 and EN14511 energy efficiency certificates. The EHPA requirements are enforced. In addition, because our heat pumps have the advantages of safety, high efficiency, environmental protection, low energy consumption, etc., POWER WORLD has become an energy solution enterprise recommended by the Chinese government to replace traditional boiler projects.



ABOUT POWER WORLD

Background

POWER WORLD Machinery Equipment Co., Ltd. was established in 2004, focusing on heat pump for 20 years, listed company with stock code 870092.

POWER WORLD is a high-tech enterprise focusing on the R&D, production, and sales of air source heat pump products. The headquarter is located in Shenzhen, a developed commercial city. The factory is located in Dongguan, a prosperous manufacturing industry, and there are branches in various places. The main products include air source EVI DC Inverter house heat pumps, swimming pool heat pumps, hot water heat pumps, 80°C high-temperature hot water heat pumps, industrial and agricultural heat pump dryers, etc. Among them, the export volume of EVI DC inverter house heat pump and swimming pool heat pump has always been among the best, ranking first in China for many years.

- Top 10 Air Source Heat Pump Brands in China
- Top 10 brands of water heaters in Guangdong
- Top 10 outstanding brands in China's heat pump industry
- Outstanding industrial and agricultural drying brands in China's heat pump industry
- Outstanding contribution unit of coal-to-clean energy
- Air source Northern heating demonstration award in China
- "Leading Brand in China's Heat Pump Industry" for 6 consecutive years.
- China Home Appliance Industry "Plug" Award
- National High-tech Enterprise
- Leading Brand of air source heat pumps in China



Market Strategy



After more than ten years of technological innovation and market strategy development, POWER WORLD's products are not only popular in China as the Top 10 leading brands in China's air source heat pump industry but also in more than 60 countries and regions and have established more than 1000 perfect sales and service networks around the world, providing customers with professional and competitive price energy solutions.

Company Vision

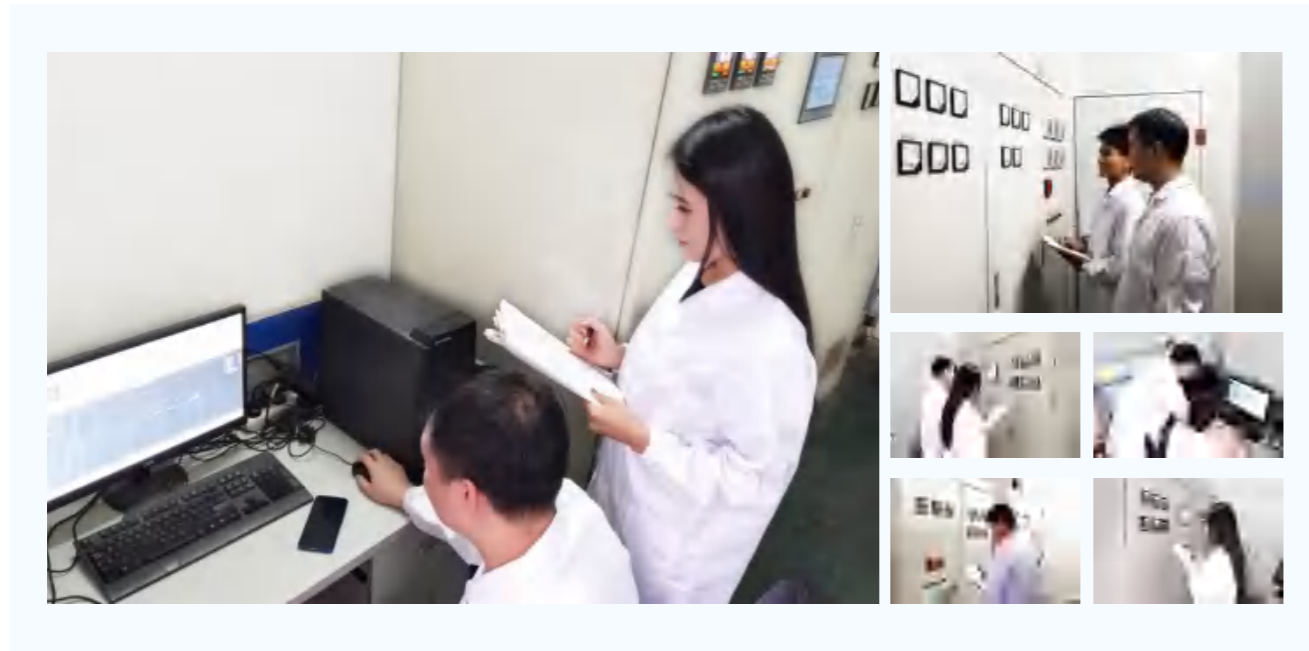
Build a world-class brand enterprise and become a power to promote world development. POWER WORLD has been focusing on continuous technological innovation to improve the quality of products and services, and is committed to providing customers with high-quality air source products and the best energy solutions.



196,000m²
500+
400+

FOUR COMPREHENSIVE LABORATORIES

- Power world has 4 comprehensive laboratories that meet the EU EN14511 standard, leading the industry in scale, technology and quantity.



CERTIFICATES & AWARDS

- The following certificates only represent some of POWER WORLD.



CORPORATE HISTORY

2004

POWER WORLD was established, research and development, production and sales of air source heat pumps.

2007 — 2008

Obtained ISO9001:2000 quality management certification.

Obtained CCTV, Guangdong Satellite TV, Shenzhen City, and other authoritative media reports, the top 200 most growing enterprises.

2011 — 2012

Optimized and increased air source testing equipment, improved laboratory testing capabilities; Refreshed the record of double sales compared to 2010;

The first batch of shortlisted national energy-saving projects.

2013 — 2014

Won the most potential Shenzhen brand honorary title of "Shenzhen Famous Brand"; Won the 2014 China Home Appliance Industry "Plug" Award.

2017 — 2018

Won the "2017 Observing Contract and Valuing Credit" award;

Won the five-star after-sales service system certification;

Won the "Industry Leading Brand" award by China Heat Pump Association;

Power World and Danfoss reached a "strategic cooperation";

Obtained agricultural machinery subsidies for drying products;

2005 — 2006

Obtained more than 40 patents.

Recognized as a high-tech enterprise and independent innovation product in Shenzhen.

2009 — 2010

Obtained the EU CE, China Compulsory Certification 3C Certification, and other authoritative certifications; Has 350 service outlets nationwide.

2015 — 2016

Won the honorary title of "National High-tech Enterprise";

The product passed the energy-saving certification;

Won the honorary title of "Top Ten Brands of Guangdong Water Heaters", on November 29th Dongguan Branch of POWER WORLD was established and became a listed company(New OTC Market), stock code 870092.

2020 — 2024

Won the Excellent Industrial and Agricultural Drying Brand in China's Heat Pump Industry;

Consecutively Recognized as "China's High-tech Enterprise";

Won the Outstanding Brand Award in China's Drying Industry;

Won the China Heat Pump Outstanding Contribution Award;

Won the China Heat Pump Association Industry Leading Brand Award.

SWIMMING POOL HEAT PUMP

* MINI SPA HEAT PUMP

- ON-OFF Mini series
- Inverter Mini series

* INVERTER SWIMMING POOL HEAT PUMP

- Inverter Quiet Series
- Inverter Quiet Pro Series
- Inverter Smart Series
- Inverter Ultra Series

* COMMERCIAL SWIMMING POOL HEAT PUMP



ON-OFF MINI SERIES

SPA HEAT PUMP



ON-OFF MINI SERIES



The Mini Spa Heat Pump is a new model available in the Jacuzzi & spa market. It features fast heating, quick installation and is designed for swimming pools and spas within 25m³.



Heating & Cooling	Intelligent Defrosting	25Kg Compact Size	LED Panel	R32
Patent Design	Wide Working Range -5~43°C	45dB Low Noise	COP 5.4 High cop	Plug & Play

Model	PW005-KZXYC-F	PW008-KZXYC-F	PW012-KZXYC-F	PW015-KZXYC-F
Advised pool volume (m3) ①	5~15	10~20	12~22	15~25
Operating air temperature (°c)	-5~43			
Operating water temperature(°C) Heating	9~40			
Operating water temperature(°C) Cooling	9~35			
Performance Condition: Air 27°C, Water 26°C, Humidity 80%				
Heating capacity (kw)	2.8	3.5	4.5	5.5
Heating capacity (btu)	9520	11900	15300	18700
Consumed power (kw)	0.56	0.65	0.83	1.02
Cop	5.0	5.4	5.4	5.4
Performance Condition: Air 15°C, Water 26°C, Humidity 70%				
Heating capacity (kw)	2.0	2.5	3.3	3.9
Heating capacity (btu)	6800	8500	11050	13328
Consumed power (kw)	0.53	0.63	0.81	0.98
Cop	3.8	4.0	4.0	4.0
Performance Condition: Air 35°C, Water 28°C, Humidity 80%				
Cooling capacity (kw)	1.5	2.0	2.6	3.3
Sound pressure at 1m dB(A)	45	46	47	48
Sound pressure at 10m dB(A)	28	30	31	32
Heat exchanger	Spiral titanium tube in PVC shell			
Casing	Metal Casing			
Refrigerant	R32			
Power supply	220 ~240V/1 Ph/50Hz			
Water connection (mm)	Φ32			
Rated input current at air 15°C (A)	2.42	2.88	3.50	4.30
Advised water flux (m³/h)	1.0-1.5	1.5-2.0	1.7-2.2	2.0-2.5
Water pressure drop (max) kpa	2	2	4	4
Net weight / Gross weight (kg)	25/27	26/28	33/36	34/37
Product size (mm)	394*444*435		498*499*500	

Note:

The data above is for reference only, please refer to the nameplate on the unit if for more specific data.

① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

INVERTER MINI SERIES

SPA HEAT PUMP

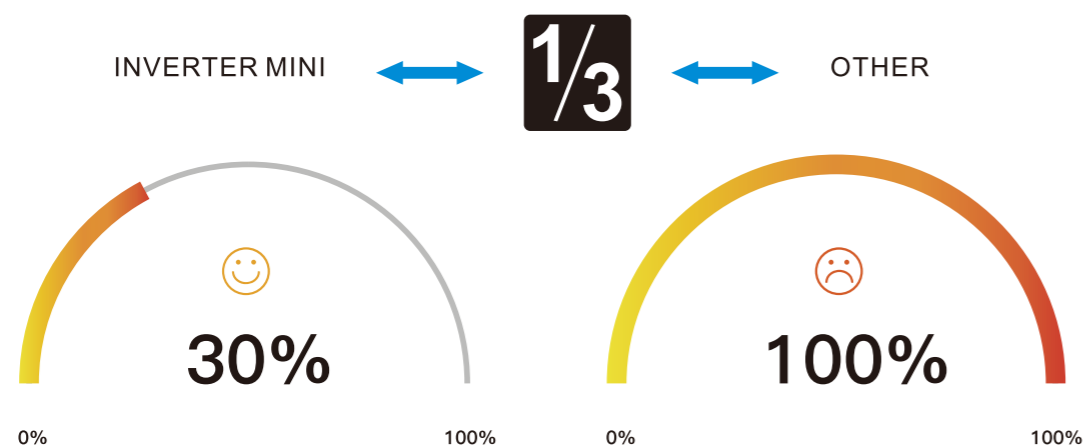


INVERTER MINI SERIES



This series is an upgrade based on the ON-OFF series. Compared with the ON-OFF heat pump, this series has lower energy consumption, higher energy-saving efficiency, COP up to 9.6, lower operating noise, and is more stable and reliable.

Operating Cost



Oval control panel design

Oval control panel design popular with customers



Model	PW008-KZXYS-F	PW015-KZXYS-F
Advised pool volume (m3) ①	5~15	15~25
Operating air temperature (°C)	-5~43°C	
Performance Condition: Air 27°C, Water 26°C, Humidity 80%		
Heating capacity (kW)	4.0-1.0	5.5-1.4
Heating capacity (Btu)	13650~3410	18766~4780
Consumed power (kW)	0.8-0.11	1.1~0.15
COP	5.0~9.5	5.0~9.6
Performance Condition: Air 15°C, Water 26°C, Humidity 70%		
Heating capacity (kW)	2.5-0.65	3.7-0.8
Heating capacity (Btu)	8530~2218	12625~2730
Consumed power (kW)	0.63-0.11	0.93~0.13
COP	4.0~6.1	4.0~6.0
Performance Condition: Air 35°C, Water 28°C, Humidity 80%		
Cooling capacity (kW)	1.5	2.8
Sound pressure at 1m dB(A)	45	48
Sound pressure at 10m dB(A)	30	32
Heat exchanger	Spiral titanium tube in PVC shell	
Casing	Metal Casing	
Power supply	220 ~ 240V/1 Ph/50Hz/60Hz	
Water connection (mm)	Ø32	
Rated input current at air 15°C (A)	2.86~0.5	4.23~0.59
Advised water flux (m³/h)	1.5-2.0	2.0-2.5
Water pressure drop (max) KPa	15	20
Net weight / Gross weight (kg)	28/30	36/39
Product size (mm)	394*444*435	498*499*500
Refrigerant	R32	
Operating water temperature(°C) Heating	9~40°C	
Operating water temperature(°C) Cooling	9~35°C	

Note:

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① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

QUIET SERIES

INVERTER SWIMMING POOL HEAT PUMP



INVERTER QUIET SERIES

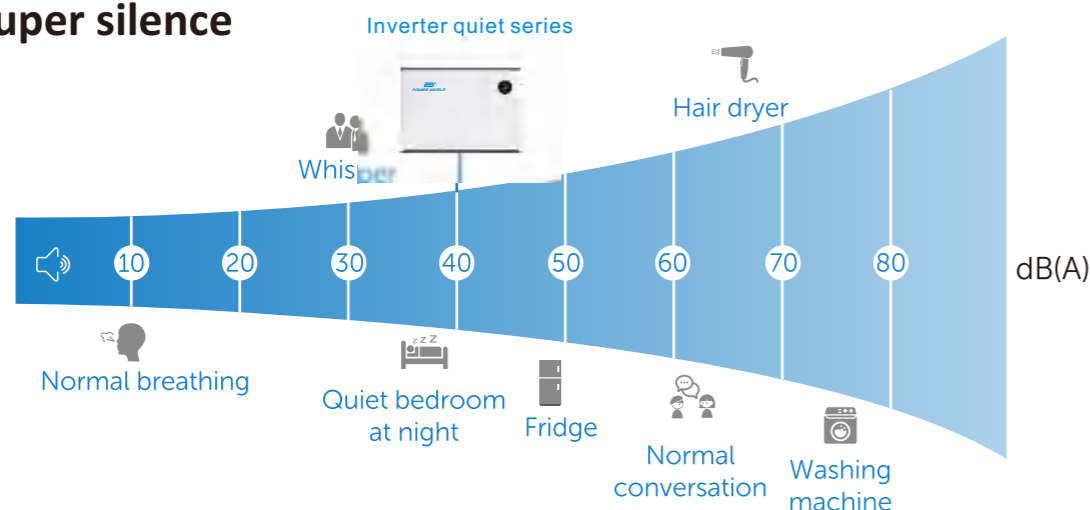


The INVERTER Quiet Series Swimming Pool Heat Pump adopts FULL DC INVERTER technology and the double-side discharge design and double rotor compressor, which brings a kind of beauty while effectively reducing the noise level. It is a new design style on the market, specifically designed for swimming pools of 15 to 100m³.

• Unique airstream design



• Super silence



Model	PW010 -KZXYC-B	PW015 -KZXYC-B	PW020 -KZXYC-B	PW030 -KZXYC-B
Advised pool volume (m3) ^①	15~30	20~40	25~50	30~60
Operating air temperature (°C)	-7~43°C			
Performance Condition: Air 27°C, Water 26°C, Humidity 80%				
Heating capacity (kW)	7.50~1.92	9.50~2.10	11.00~2.50	14.00~3.15
Heating capacity (Btu)	25500~6528	32300~7140	37400~8500	47600~10710
Consumed power (kW)	1.15~0.13	1.46~0.14	1.83~0.17	2.15~0.21
COP	6.5~14.8	6.5~15.0	6.0~14.7	6.5~15.0
COP at 50% capacity	10.5	11	11	10.5
Performance Condition: Air 15°C, Water 26°C, Humidity 70%				
Heating capacity (kW)	5.80~1.42	7.2~1.50	8.5~1.65	10.7~2.40
Heating capacity (Btu)	19720~4828	24480~5100	28900~5610	36380~8160
Consumed power (kW)	1.15~0.20	1.43~0.21	1.77~0.23	2.12~0.34
COP	5.0~7.1	5.0~7.2	4.8~7.2	5.0~7.1
COP at 50% capacity	6.5	6.5	6.5	6.5
Performance Condition: Air 35°C, Water 28°C, Humidity 80%				
Cooling capacity (kW)	4	5.2	6	7.2
Sound pressure at 1m dB(A)	38~48	38~48	40~50	42~51
Sound pressure of 50% capacity at 1m dB(A)	40	40	41	43
Sound pressure at 10m dB(A)	18~25	18~25	19~26	22~27
Heat exchanger	Spiral titanium tube in PVC shell			
Casing	Metal Casing			
Refrigerant	R32			
Power supply	220V~230V/1 Ph/50Hz~60Hz			
Water connection (mm)	Ø50			
Rated input current at air 15°C (A)	5.1~0.9	6.3~0.9	7.8~1.0	9.3~1.5
Advised water flux (m ³ /h)	2~4	2~4	3~5	4~6
Water pressure drop (max) KPa	5	5	8	10
Net weight / Gross weight (kg)	62/75	62/75	64/77	70/83
Product size (mm)	980*402*636			
Operating water temperature(°C) Heating	9~40°C			
Operating water temperature(°C) Cooling	9~35°C			

Note:

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① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

INVERTER QUIET SERIES

Model	PW040 -KZXYC-B	PW050 -KZXYC-B	PW060 -KZXYC-B	PW070 -KZXYC-B	PW080 -KZXYC-B
Advised pool volume (m ³) ^①	40~75	55~100	55~100	60~120	70~130
Operating air temperature (°C)	-7~43°C				
Performance Condition: Air 27°C, Water 26°C, Humidity 80%					
Heating capacity (kW)	17.00~3.75	20.00~4.00	24.00~4.80	28.0~5.6	32.5~6.5
Heating capacity (Btu)	57800~13090	68000~13600	81600~16320	95500~19100	110900~22100
Consumed power (kW)	2.62~0.25	3.33~0.27	4.00~0.32	4.75~0.37	5.42~0.43
COP	6.5~15.0	6.0~14.8	6.0~15.0	6.0~15.0	6.0~15.0
COP at 50% capacity	11	11	11	11	11
Performance Condition: Air 15°C, Water 26°C, Humidity 70%					
Heating capacity (kW)	13.0~2.65	15.6~2.85	18.7~3.42	21.8~4.36	25.4~5.07
Heating capacity (Btu)	44200~9010	53040~9690	63580~11630	74380~14880	86665~17300
Consumed power (kW)	2.58~0.36	3.25~0.40	3.89~0.49	4.54~0.62	5.29~0.72
COP	5.0~7.4	4.8~7.0	4.8~7.0	4.8~7.0	4.8~7.0
COP at 50% capacity	6.5	6.5	6.5	6.5	6.5
Performance Condition: Air 35°C, Water 28°C, Humidity 80%					
Cooling capacity (kW)	8.6	10.1	11.8	13.8	15.6
Sound pressure at 1m dB(A)	43~52	43~53	44~54	45~56	45~57
Sound pressure of 50% capacity at 1m dB(A)	44	44	45	48	49
Sound pressure at 10m dB(A)	23~30	24~31	25~32	26~34	26~35
Heat exchanger	Spiral titanium tube in PVC shell				
Casing	Metal Casing				
Refrigerant	R32				
Power supply	220V~230V/1 Ph/50Hz~60Hz				
Water connection (mm)	Ø50				
Rated input current at air 15°C (A)	11.3~1.6	14.3~1.8	17.8~2.3	20.8~2.8	24.2~3.3
Advised water flux (m ³ /h)	6~9	8~10	9~12	10~14	12~16
Water pressure drop (max) KPa	12	15	15	20	25
Net weight / Gross weight (kg)	81/95	81/95	93/108	110/128	115/133
Product size (mm)	1107*503*760			1187*503*900	
Operating water temperature(°C) Heating	9~40°C				
Operating water temperature(°C) Cooling	9~35°C				

Note:

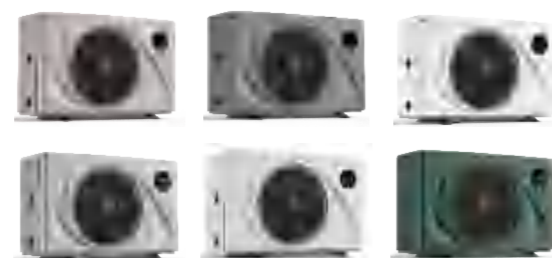
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- ① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.



QUIET PRO SERIES

INVERTER SWIMMING POOL HEAT PUMP



INVERTER QUIET PRO SERIES



This series is newly designed and developed for customers in coastal countries or regions on the basis of the Quiet series in 2022, two new appearances, it avoids any corrosion in the harsh working conditions and is suitable for swimming pools from 15m³ to 100m³.

- Unique 3D wind blade shape
- Strong weather resistance
- Anti-corrosion plastic casing
- Embedded Control Panel



- 👂 Quiet Pro Series
- 👂 Others

Model	PW010 -KZXYC-H	PW015 -KZXYC-H	PW020 -KZXYC-H	PW030 -KZXYC-H
Advised pool volume (m3) ①	15~30	20~40	25~50	30~60
Operating air temperature (°C)	-7~43°C			
Performance Condition: Air 27°C, Water 26°C, Humidity 80%				
Heating capacity (kW)	7.50~1.92	9.50~2.10	11.00~2.50	14.00~3.15
Heating capacity (Btu)	25500~6528	32300~7140	37400~8500	47600~10710
Consumed power (kW)	1.15~0.13	1.46~0.14	1.83~0.17	2.15~0.21
COP	6.5~14.8	6.5~15.0	6.0~14.7	6.5~15.0
COP at 50% capacity	10.5	11	11	10.5
Performance Condition: Air 15°C, Water 26°C, Humidity 70%				
Heating capacity (kW)	5.80~1.42	7.2~1.50	8.5~1.65	10.7~2.40
Heating capacity (Btu)	19720~4828	24480~5100	28900~5610	36380~8160
Consumed power (kW)	1.15~0.20	1.43~0.21	1.77~0.23	2.12~0.34
COP	5.0~7.1	5.0~7.2	4.8~7.2	5.0~7.1
COP at 50% capacity	6.5	6.5	6.5	6.5
Performance Condition: Air 35°C, Water 28°C, Humidity 80%				
Cooling capacity (kW)	4	5.2	6	7.2
Sound pressure at 1m dB(A)	38~48	38~48	40~50	42~51
Sound pressure of 50% capacity at 1m dB(A)	40	40	41	43
Sound pressure at 10m dB(A)	18~25	18~25	19~26	22~27
Heat exchanger	Spiral titanium tube in PVC shell			
Casing	ABS Plastic Casing			
Refrigerant	R32			
Power supply	220V~230V/1 Ph/50Hz~60Hz			
Water connection (mm)	Ø50			
Rated input current at air 15°C (A)	5.1~0.9	6.3~0.9	7.8~1.0	9.3~1.5
Advised water flux (m ³ /h)	2~4	2~4	3~5	4~6
Water pressure drop (max) KPa	5	5	8	10
Net weight / Gross weight (kg)	56/68	56/68	58/70	64/76
Product size (mm)	1000*396*640			
Operating water temperature(°C) Heating	9~40°C			
Operating water temperature(°C) Cooling	9~35°C			

Note:

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INVERTER QUIET PRO SERIES

Model	PW040 -KZXYC-H	PW050 -KZXYC-H	PW060 -KZXYC-H	PW070 -KZXYC-H	PW080 -KZXYC-H
Advised pool volume (m ³) ^①	40~75	55~100	60~110	60~120	70~130
Operating air temperature (°C)	-7~43°C				
Performance Condition: Air 27°C, Water 26°C, Humidity 80%					
Heating capacity (kW)	17.00~3.75	20.00~4.00	24.00~4.80	28.0~5.6	32.5~6.5
Heating capacity (Btu)	57800~13090	68000~13600	81600~16320	95500~19100	110900~22100
Consumed power (kW)	2.62~0.25	3.33~0.27	4.00~0.32	4.75~0.37	5.42~0.43
COP	6.5~15.0	6.0~14.8	6.0~15.0	6.0~15.0	6.0~15.0
COP at 50% capacity	11	11	11	11	11
Performance Condition: Air 15°C, Water 26°C, Humidity 70%					
Heating capacity (kW)	13.0~2.65	15.6~2.85	18.7~3.42	21.8~4.36	25.4~5.07
Heating capacity (Btu)	44200~9010	53040~9690	63580~11630	74380~14880	86665~17300
Consumed power (kW)	2.58~0.36	3.25~0.40	3.89~0.49	4.54~0.62	5.29~0.72
COP	5.0~7.4	4.8~7.0	4.8~7.0	4.8~7.0	4.8~7.0
COP at 50% capacity	6.5	6.5	6.5	6.5	6.5
Performance Condition: Air 35°C, Water 28°C, Humidity 80%					
Cooling capacity (kW)	8.6	10.1	11.8	13.8	15.6
Sound pressure at 1m dB(A)	43~52	43~53	44~54	45~56	45~57
Sound pressure of 50% capacity at 1m dB(A)	44	44	45	48	49
Sound pressure at 10m dB(A)	23~30	24~31	25~32	26~34	26~35
Heat exchanger	Spiral titanium tube in PVC shell				
Casing	ABS Plastic Casing				
Refrigerant	R32				
Power supply	220V~230V/1 Ph/50Hz~60Hz				
Water connection (mm)	Ø50				
Rated input current at air 15°C (A)	11.3~1.6	14.3~1.8	17.8~2.3	20.8~2.8	24.2~3.3
Advised water flux (m ³ /h)	6~9	8~10	9~12	10~14	12~16
Water pressure drop (max) KPa	12	15	15	20	25
Net weight / Gross weight (kg)	72/86	72/86	80/94	90/105	93/108
Product size (mm)	1125*416*765			1156*433*905	
Operating water temperature(°C) Heating	9~40°C				
Operating water temperature(°C) Cooling	9~35°C				

Note:

The data above is for reference only, please refer to the nameplate on the unit if for more specific data.

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Higher Energy Efficiency

4-Seasons Swimming Pool Heat Pumps



SMART SERIES

INVERTER SWIMMING POOL HEAT PUMP



INVERTER SMART SERIES



Smart Series R32 Full Inverter Swimming Pool Heat Pump with the use of an inverter compressor, variable speed fan and logical control board, which can achieve energy saving, fast heating cooling, and high accuracy of the temperature control. It is a cost-effective option in our products.

13.4 COP



- Mixed color design(customizable)
- LCD control panel (language customizable)
- Novelty screwless design
- Multiple noise reduction design



WiFi Function



Heating&Cooling



Wide Working Range

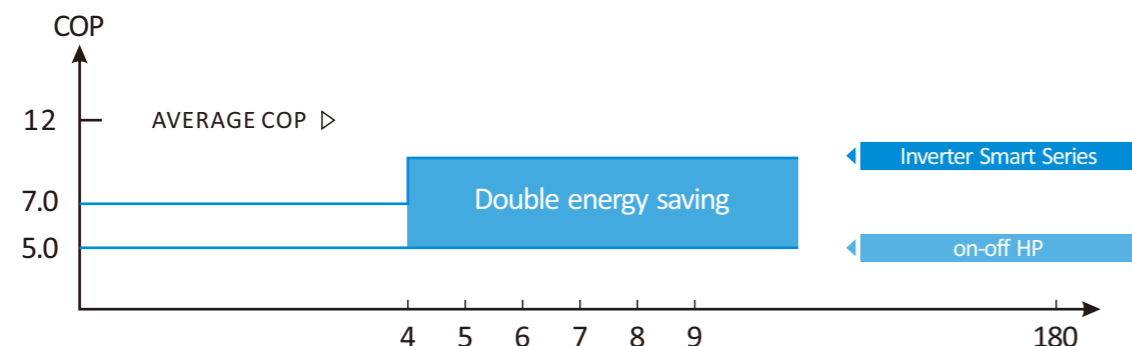


Intelligent Defrosting



SAVE ENERGY AND SPEED UP HEATING TIME

Inverter Smart Series VS on/off HP(in 180 days pool season)



Model	PW010 -KZXYC-C	PW015 -KZXYC-C	PW020 -KZXYC-C	PW030 -KZXYC-C	PW040 -KZXYC-C	PW050 -KZXYC-C	Pw060 -KZXYC-C
Advised pool volume (m3) ①	15~30	20~40	25~50	30~60	40~75	55~100	55~100
Operating air temperature (°C)	-7~43°C						
Performance Condition: Air 27°C, Water 26°C, Humidity 80%							
Heating capacity (kW)	7.50~1.92	9.50~2.10	11.00~2.50	14.00~3.15	17.00~3.75	20.00~4.00	24.00~4.80
Heating capacity (Btu)	25500~6528	32300~7140	37400~8500	47600~10710	57800~13090	68000~13600	81600~16320
Consumed power (kW)	1.36~0.15	1.73~0.16	2.00~0.19	2.54~0.24	3.1~0.28	3.64~0.31	4.36~0.38
COP	5.5~12.8	5.5~13.1	5.5~13.2	5.5~13.0	5.5~13.4	5.5~12.9	5.5~12.8
COP at 50% capacity	9.0	9.5	9.5	9	9.5	9.5	9.5
Performance Condition: Air 15°C, Water 26°C, Humidity 70%							
Heating capacity (kW)	5.80~1.42	7.2~1.50	8.5~1.65	10.7~2.40	13.0~2.65	15.6~2.85	18.7~3.42
Heating capacity (Btu)	19720~4828	24480~5100	28900~5610	36380~8160	44200~9010	53040~9690	63580~11630
Consumed power (kW)	1.28~0.22	1.60~0.23	1.89~0.25	2.38~0.37	2.89~0.41	3.47~0.44	4.16~0.53
COP	4.5~6.5	4.5~6.5	4.5~6.5	4.5~6.5	4.5~6.5	4.5~6.5	4.5~6.5
COP at 50% capacity	5.2	5.5	5.5	5.2	5.5	5.5	5.5
Performance Condition: Air 35°C, Water 28°C, Humidity 80%							
Cooling capacity (kW)	4	5.2	6	7.2	8.6	10.1	11.8
Sound pressure at 1m dB(A)	38~48	38~48	40~50	42~51	43~52	43~53	43~54
Sound pressure of 50% capacity at 1m dB(A)	40	40	41	43	44	44	45
Sound pressure at 10m dB(A)	18~25	18~25	19~26	22~27	23~30	24~31	25~32
Heat exchanger	Spiral titanium tube in PVC shell						
Casing	Metal Casing						
Refrigerant	R32						
Power supply	220V~230V/1 Ph/50Hz~60Hz						
Water connection (mm)	Ø50						
Rated input current at air 15°C (A)	5.6~1.0	7.0~1.0	8.3~1.1	10.5~1.6	12.6~1.8	15.2~1.9	18.5~2.3
Advised water flux (m³/h)	2~4	2~4	3~5	4~6	6~9	8~10	9~12
Water pressure drop (max) KPa	2	3	4	5	5	6	8
Net weight / Gross weight (kg)	48/58	50/60	53/63	58/68	67/78	67/78	73/85
Product size (mm)	912*360*610				980*370*760		
Operating water temperature(°C) Heating	9~40°C						
Operating water temperature(°C) Cooling	9~35°C						

Note:

The data above is for reference only, please refer to the nameplate on the unit if for more specific data.

① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

ULTRA SERIES

INVERTER SWIMMING POOL HEAT PUMP



INVERTER ULTRA SERIES



The Inverter Ultra Series Swimming Pool Heat Pump has a three-side air inlet and top air outlet design, which can make the wind field evenly distributed, make full use of the casing space, and ensure sufficient air output. It is born to meet the larger needs of the market, specially designed for 25 to 120m³ swimming pools that require higher heating capacity.

- Low temperature: -15°C
- Wide working voltage 175v~254v/340v~440v
- COP up to 16.2
- Top airstream outlet design

16.2
COP



Model	PW030 -DKZXYC-D	PW040 -DKZXYC-D	PW050 -DKZXYC-D	PW060 -DKZXYC-D	PW070 -DKZXYC-D	PW070 -DKZXYC-D	PW080 -DKZXYC-D	PW100 -DKZXYC-D
Advised pool volume (m ³) ^①	25~50	30~60	40~75	50~90	60~100	60~100	70~120	80~150
Operating air temperature (°C)	-15~43							
Performance Condition: Air 27°C, Water 26°C, Humidity 80%								
Heating capacity (kW)	14.0~3.20	17.50~3.50	21.5~5.00	24.50~5.50	28.50~7.00	28.50~7.00	32.50~7.5	43.5~16.5
Heating Capacity (Btu)	47600~10880	59500~11900	73100~17000	83300~18700	96900~23800	96900~23800	110500~25500	148400~56300
Consumed power (kW)	1.94~0.20	2.50~0.22	3.10~0.31	3.65~0.34	4.20~0.44	4.20~0.44	5.00~0.48	7.25~1.22
COP	7.2~16.0	7.0~15.9	6.9~16.1	6.7~16.2	6.8~15.9	6.8~15.9	6.5~15.6	6.0~13.5
COP at 50% capacity	12	12	12	12	12	12	11.5	11.5
Performance Condition: Air 15°C, Water 26°C, Humidity 70%								
Heating capacity (kW)	10.51~2.48	13.0~2.57	16.25~3.60	19.10~4.2	22.5~5.0	22.5~5.0	25.5~5.5	32.5~12.5
Heating Capacity (Btu)	35734~8432	44200~8738	55250~12240	64940~14280	76500~17000	76500~17000	87720~18700	110900~42650
Consumed power (kW)	1.91~0.31	2.40~0.32	3.05~0.45	3.54~0.53	4.17~0.62	4.17~0.62	4.90~0.69	6.84~1.47
COP	5.5~8.0	5.4~8.0	5.3~8.0	5.4~7.9	5.4~8.1	5.4~8.1	5.2~8.0	4.75~8.5
COP at 50% capacity	7	7	7	7	7	7	6.8	6.6
Performance Condition: Air 35°C, Water 28°C, Humidity 80%								
Cooling capacity (kW)	9.2	11.5	13.8	15.7	18.4	18.4	20.7	25
Sound pressure at 1m dB(A)	40~49	40~50	42~51	43~52	43~53	43~53	43~54	48~60
Sound pressure of 50% capacity at 1m dB(A)	44	45	45	46	46.5	46.5	47	54
Sound pressure at 10m dB(A)	18.5~27	22.0~27.5	22.5~29.5	23~30	23.5~31	23.5~31	24~32	30~38
Heat exchanger	Spiral titanium tube in PVC							
Casing	Metal Casing							
Power supply	220-240V/1 Ph				380-400V/3 Ph			
Water Connection (mm)	Ø50							
Refrigerant	R32/700g	R32/800g	R32/1700g	R32/1700g	R32/2000g	R32/2000g	R32/2300g	R32/2800g
Rated input current at air 15°C (A)	8.4~1.4	10.5~1.4	13.3~2.0	15.5~2.3	18.3~2.7	6.4~1.0	7.5~1.1	12.2~2.63
Advised water flux (m ³ /h)	4~6	6~8	7~9	8~10	9~11	9~11	10~12	16~19
Water pressure drop (max) KPa	4	5	7	10	13	13	15	30
Net weight/Gross weight(kg)	80/95	100/115	150/170	160/180	220/245	220/245	230/255	195/225
Product size (mm)	719*708*768		767*824*867		916*904*922		1010*1010*1135	
Operating water temperature(°C) Heating	9~40							
Operating water temperature(°C) Cooling	9~35							

Note:

The data above is for reference only, please refer to the nameplate on the unit if for more specific data.

① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

COMMERCIAL SERIES

SWIMMING POOL HEAT PUMP



Ultra Efficiency



Reliability



Intelligent Defrosting

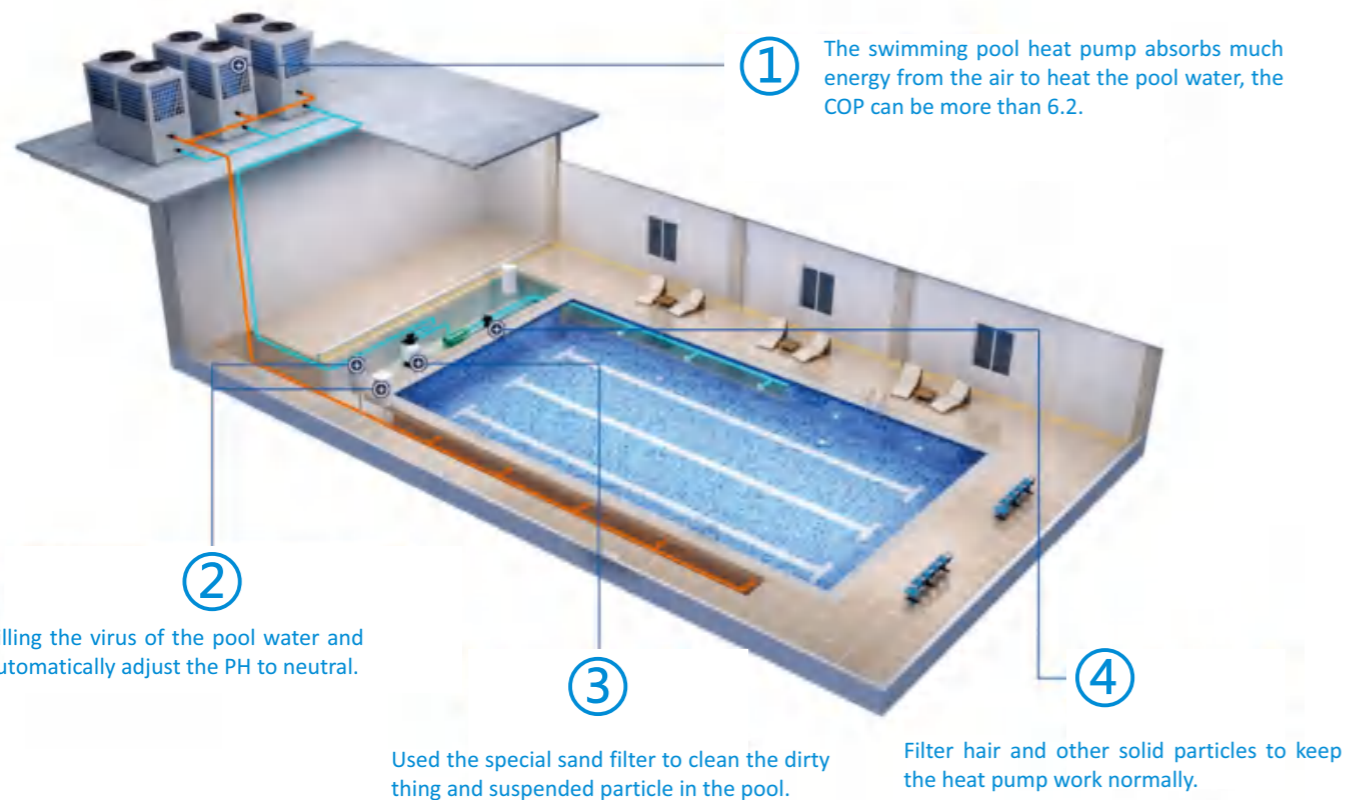


Season function

COMMERCIAL SERIES

Commercial pool heat pump provides maximum energy efficiency and reliability. Working efficiently, the heat pump units absorb another 6 times of free heat from the ambient environment, and transfer it to the pool water, which makes the heating process ecological and cost saving, specially designed for maintaining a constant temperature of swimming pools 40m³ to 500m³, such as pools in hotels, public parks, schools, sports centers, gyms, and so on.

- ① Swimming Pool Heat Pump
- ② Disinfection & pH Value Adjustment System
- ③ Sand Cylinder Filter
- ④ Hair Collector



Model	PW050 -KFXYC	PW100 -KFXYC	PW150 -KFXYC	PW200 -KFXYC	PW250 -KFXYC	PW300 -KFXYC
Advised pool volume (m3) ①	40~85	80~170	120~250	150~300	210~400	260~500
Operating air temperature (°C)	-7~43°C					
Performance Condition: Air 27°C, Water 26°C, Humidity 80%						
Heating capacity (kW)	26	51.5	75	100	121	145
Heating capacity (Btu)	88400	175100	255000	340000	411400	493000
Consumed power (kW)	4.2	8.4	12.1	16.8	20.2	23.8
COP	6.2	6.1	6.2	6	6	6.1
Performance Condition: Air 15°C, Water 26°C, Humidity 70%						
Heating capacity (kW)	18.3	39.8	53.5	77.5	90.3	105.8
Heating capacity (Btu)	62220	135320	181900	263500	307020	359720
Consumed power (kW)	3.9	8.4	11.3	16.7	19.2	22.8
COP	4.7	4.7	4.7	4.6	4.7	4.6
Performance Condition: Air 35°C, Water 28°C, Humidity 80%						
Cooling capacity (kW)	16.5	33.4	48.5	65.1	78.5	94.6
Sound pressure at 1m dB(A)	56	58	60	62	64	66
Sound pressure at 10m dB(A)	44	46	48	50	52	54
Heat exchanger	Spiral titanium tube in PVC shell					
Casing	Metal Casing					
Refrigerant	R410A					
Power supply	380V~400V/3PH/50Hz					
Water connection (mm)	G1-1/2" (PVC female thread)	G2" (PVC female thread)	G2" (PVC female thread)	Dn90 (PVC flange)	Dn90 (PVC flange)	Dn90 (PVC flange)
Rated input current at air 15°C (A)	6.05	13.02	17.52	25.89	29.77	35.35
Advised water flux (m ³ /h)	11.2	22.1	32.3	43.0	52.0	62.4
Water pressure drop (max) KPa	50	50	50	45	45	50
Net weight / Gross weight (kg)	135/145	200/220	248/268	352/372	450/480	465/500
Product size (mm)	750*805*1165	1500*750*1075	1530*790*1100	1705*1065*1200	2005*1065*1400	
Loading quantity (20GP/40GP/40HQ)	14/28/56	6/14/28	6/14/28	6/12/12	5/10/10	
Refrigerant consumption (g)	2500	5400	7000	10000	10400	13000
Operating water temperature(°C) Heating	9~40°C					
Operating water temperature(°C) Cooling	9~35°C					

Note:

The data above is for reference only, please refer to the nameplate on the unit if for more specific data.

- ① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.

GLOBAL PROJECT INSTALLATION CASES

HOUSE HEATING COOLING AND DHW HP INSTALLATION



SWIMMING POOL HEAT PUMP INSTALLATION

