



POWER WORLD MACHINERY EQUIPMENT CO.,LTD.

Headquarters Add.: No.24, Fourth Industrial Zone, Houting Street, Shajing Town, Baoan District, Shenzhen, China.

Factory Add.: No.32, Luxi 2nd Road, Liaobu Town, Dongguan, Guangdong, China

Tel:+86-769-89979297

E-mail: info@powerworldhp.com

Global After-sales: technical@powerworld-e.com

Website: www.powerworldhp.com Website: www.powerworld-e.com









RENEWABLE ENERGY SOLUTION

Air Source Heat Pump | HydroBox | Water Tank



2023 PRODUCT CATALOGUE





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Background

POWER WORLD Machinery Equipment Co., Ltd. was established in 2004, focusing on heat pump for 18 years, listed company with stock code 870092.

ABOUT POWER WORLD

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







400+

Factory Advantages



POWER WORLD has strong technical and R&D strength, a complete heat pump industry chain, an industrial park of 40,000 square meters, 8 flexible production lines, an annual output of more than 100,000 sets of heat pump units, and 4 comprehensive laboratories for air source heat pumps, and the comprehensive laboratory complies with EU EN14511 standard, and laboratory performance experiments meet national GMPI standards. The scale, technology, and quantity are ahead of the industry. It is one of the largest air source heat pump manufacturers in China.

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.



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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.





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.

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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 Hightech 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 - 2022

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



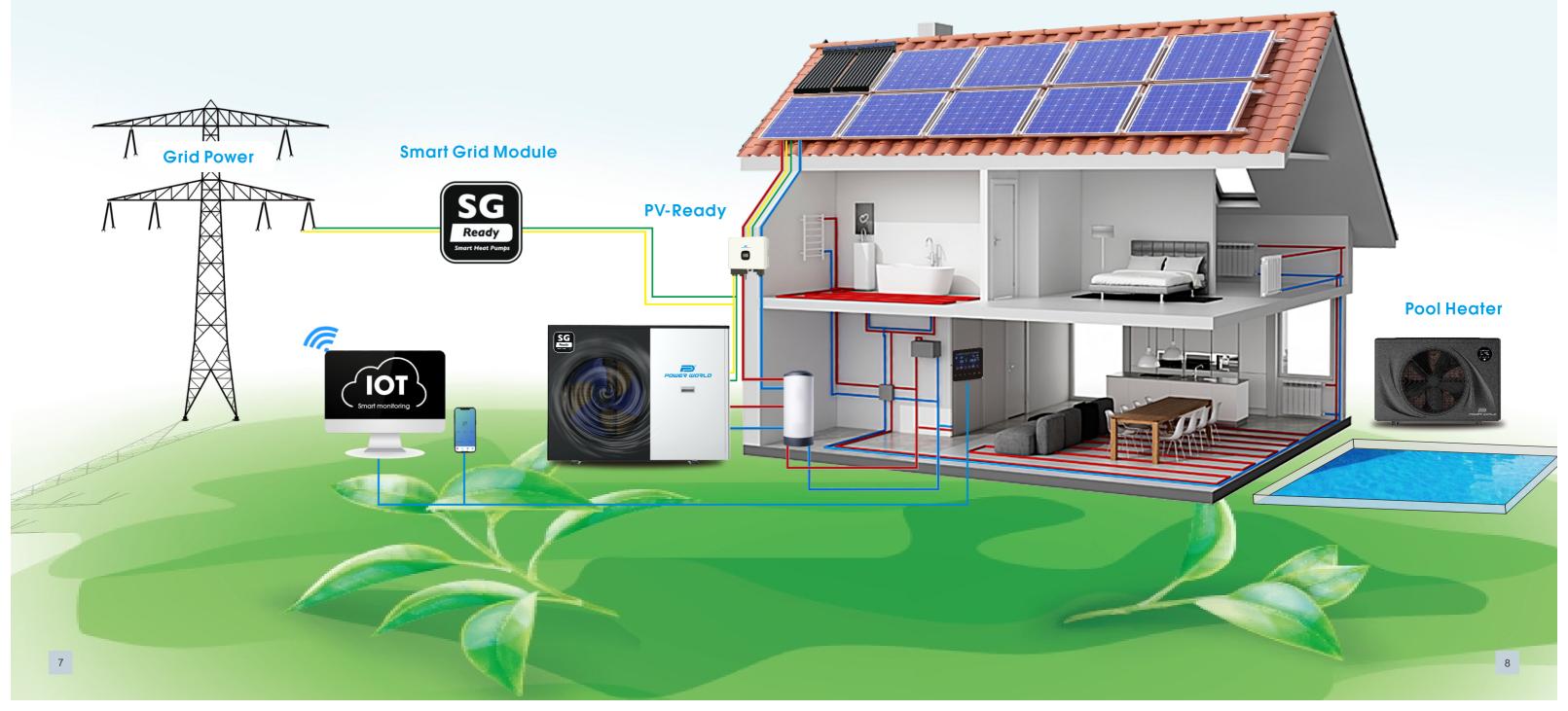






























Vacation Mode

DC Inverter



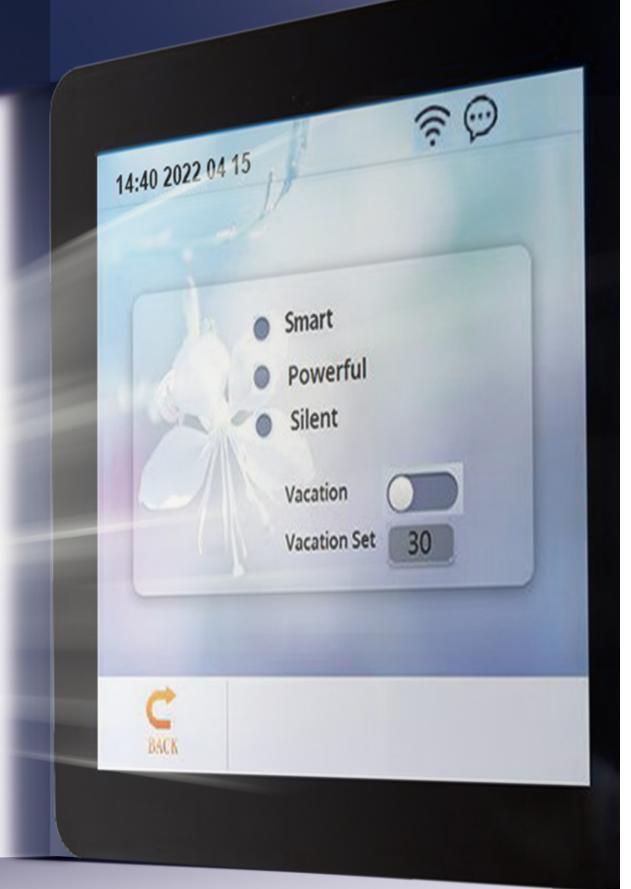
AMBIENT-30°C TEMPERATURE

- Smart Mode
- Powerful Mode
- Silent Mode

ONE MACHINE

FOR MULTIPLE PURPOSES





- Only Heating
- Only Cooling
- Only DHW
- Heating+DHW
- Cooling+DHW





EASYLIFE SERIES







EasyLife Series DC Inverter EVI Heat Pumps is a multifunctional unit of heating, cooling and DHW. It creatively combines environmentally friendly R32 refrigerant with extremely cost-effective EVI full frequency conversion technology, especially the A+++ ERP energy label, which can operate stably in extremely cold areas of -30°C. The color LCD control panel, free wifi function, and ±0.1°C precise temperature control bring the ultimate smart home experience to users.

Energy label A+++ tested by TUV



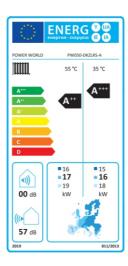




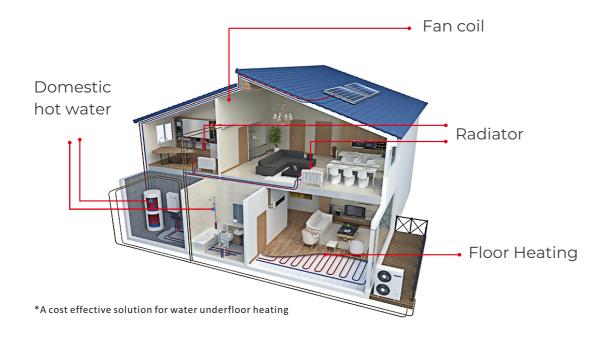




- Energy label A+++
- SCOP up to 4.72
- Intelligent defrosting
- Two electric heater control ports
- Multiple noise reduction processes



MONOBLOCK HEAT PUMP APPLICATION SCENARIO



MODEL	PW030 PW040 PW050 -DKZLRS-A -DKZLRS-A -DKZLRS-A				PW080 -DKZLRS-A	PW100 -DKZLRS-A				
Heating Condition: Ambient Temp.	(DB/WB): 7°C	/6°C, Water te	mperature(inle	et/outlet): 30°C	C/35°C					
Heating capacity range (kw)	1.57~8.40	4.40~13.00	5.9~18.2	7.5~23.0	10.2~28.0	12.8~35.0				
Heating input range (kw)	0.32~1.87	0.90~3.02	1.20~4.11	1.53~5.23	2.07~6.36	2.61~7.99				
Current range (A)	1.42~8.30	1.39~4.68/ 4.12~13.8	1.86~6.37/ 5.49~18.8	2.37~8.11	3.70~11.4	4.67~14.3				
Cop range	4.49~4.91	4.30~4.90	4.43~4.92	4.40~4.90	4.40~4.92	4.38~4.90				
Cooling Condition: Ambient Temp.	(DB/WB): 12°C	C/7°C, Water to	emperature(in	let/outlet): 35°	°C/24°C					
Cooling capacity range (kw)	0.99~6.22	2.80~8.20	3.81~11.53	4.73~14.6	6.54~19.8	8.13~24.6				
Cooling input power(kw)	0.29~2.18	0.85~3.31	1.11~4.05	1.39~5.14	1.92~6.97	2.42~8.75				
Current range (A)	1.28~9.67	1.32~5.13/ 3.89~15.1	1.72~6.28/ 5.08~18.5	2.16~7.97	3.43~12.5	4.33~15.6				
Eer range	2.85~3.41	2.48~3.29	2.85~3.43	2.84~3.40	2.84~3.40	2.81~3.36				
DHW Condition: Ambient Temp. (DB/WB): 7°C/6°C, Water temperature(inlet/outlet): 15°C/55°C										
Heating capacity range (kw)	1.28~6.81	3.52~10.50	4.80~14.72	6.1~18.5	12.3~20.4	13.6~22.6				
Heating input range (kw)	0.31~2.13	0.88~3.39	1.17~4.60	1.53~5.97	2.8~5.37	3.09~5.95				
Current range (A)	1.38~9.45	1.36~5.26/ 4.03~15.5	1.82~7.15/ 5.35~21.1	2.37~9.26	5.0~9.6	5.52~10.6				
Cop range	3.2~4.1	3.1~4.0	3.2~4.1	3.1~4.0	3.8~4.4	3.8~4.4				
Erp level (35°c)	A+++	A+++	A+++	A+++	A+++	A+++				
Erp level (55°c)	A++	A++	A++	A++	A++	A++				
Refrigerant			R3	32						
Power supply	230V/1Ph/ 50-60Hz		Ph/50-60Hz or Ph/50-60Hz		380V-400V/3Ph/ 50-60Hz	,				
working area			-30^	∕43°C						
Water circulation(m³/h)	1.4	2.2	3.1	4.0	4.8	6				
Water pressure drop(kpa)	31	25	35	45	40	50				
Ip grade(level of protection)	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4				
Anti-electric shock rate	1	1	1	1	1	1				
Noise (dB(A))	≤53	≤55	≤57	≤58	≤62	≤66				
Net weight/Gross weight(kg)	95	105	150/165	155/170	210/220	230/240				
Diameter of pipe (mm)	DN25	DN25	DN25	DN25	DN32	DN32				
Body size(W*D*H) (mm)	970×475×820	1100×475×985	1050×480×1330	1050×480×1330	1160×500×1580	1160×500×1580				
Loading quantity (20GP/40GP/40HQ)	44/88/88	44/88/88	22/42/42	22/42/42	18/40/40	18/40/40				
Operating water temperature (°c) DHW			9~5	5°C						
Operating water temperature (°c) Heating			9~5	5°C						
Operating water temperature (°c) Cooling			7~3	5°C						

The data above is for reference only,

Please refer to the nameplate on the unit if for more specific data.











EASYLIFE PLUS SERIES HEAT PUMP

The EASYLIFE PLUS Series heat pumps can be used in new buildings and retrofits, both residential and commercial buildings. It is a year-round heat source for heating, cooling and domestic hot water heating purpose.





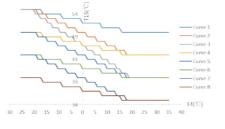












16 Temp. curves inside











Built in 3Kw Backup E-heater

























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EVI DC INVERTER HEAT PUMP FOR COOLING HEATING AND DHW (R32)

Model	PW030 -DKZLRS-D/S	PW040 -DKZLRS-D/S	PW040 -DKZLRS-D	PW050 -DKZLRS-D	PW060 -DKZLRS-D						
Heating Condition: Ambient Temp	o. (DB/WB): 7°C/6	S°C, Water tempe	erature(inlet/out	let): 30°C/35°C							
Heating Capacity Range (kW)	3.2~8.0	4.8~12.0	4.8~12.0	7.3~18.0	8.8~22.0						
Heating Power Input Range(kW)	0.61~1.88	0.93~2.88	0.93~2.88	1.36~4.14	1.67~5.15						
Cop range	4.26~5.23	4.17~5.18	4.17~5.18	4.35~5.36	4.27~5.28						
DHW Condition: Ambient Temp. (DB/WB): 7°C/6°C	, Water tempera	ture(inlet/outlet): 15°C/55°C							
Heating Capacity Range (kW)	2.9~7.2	4.3~10.8	4.3~10.8	6.0~15.0	7.4~18.5						
Heating Power Input Range(kW)	0.64~1.97	0.97~3.03	0.97~3.03	1.29~4.00	1.63~5.05						
COP Range	3.65~4.54	3.56~4.45	3.56~4.45	3.75~4.64	3.66~4.55						
Heated water output (L/H)	154	232	232	322	397						
Cooling Condition: Ambient Temp. (DB/WB): 35°C/24°C, Water temperature(inlet/outlet): 12°C/7°C											
Cooling Capacity Range (kW)	2.5~6.2	3.3~8.2	3.3~8.2	5.1~12.6	6.0~15.0						
Cooling Power Input Range(kW)	0.79~2.27	1.06~3.11	1.06~3.11	1.58~4.53	1.88~5.49						
EER Range	2.73~3.15	2.64~3.10	2.64~3.10	2.78~3.23	2.73~3.19						
ErP Level (35°C)	A+++	A+++	A+++	A+++	A+++						
ErP Level (55°C)	A++	A++ A++ A++		A++	A++						
Power supply	230V/1Ph/	50Hz/60Hz	Ţ,	380V/3Ph/50-60H	30V/3Ph/50-60Hz						
Diameter of pipe (mm)	DN25	DN25	DN25	DN25	DN25						
Water Flow(m3/h)	1.2	1.5	1.5	2.5	2.8						
Water Pressure Drop (max) kPa	30	35	35	40	45						
Water pump type		Adj	ustable DC inve	rter							
Max water head(m)	9	9	9	12	12						
Auxiliary electric heater(kW)	3	3	3	3	3						
Expansion vessel(L)	2	5	5	5	5						
Safety valve(MPa)	0.3	0.3	0.3	0.3	0.3						
Noise dB(A) at 1m	≤45	≤48	≤48	≤53	≤55						
Net Weight (kg)	105	115	115	140	140						
Net Dimension (L/W/H) mm	1150×460×820	1150×460×960	1150×460×960	1260×480×1060	1260×480×1060						
Operation Ambient Temp. (°C)			-30~43								
Operating water temperature (°C)			20~55(DHW)								
Operating water temperature (°C)			20~60(Heating)								
Operating water temperature (°C)			7~35(Cooling)								

 $Heating working condition: Inlet water temperature 30\,^{\circ}\text{C}, Outlet water temperature 35\,^{\circ}\text{C}, Dry bulb temperature 7\,^{\circ}\text{C}, Wet bulb temperature 6\,^{\circ}\text{C}. Cooling working condition: Inlet water temperature 12\,^{\circ}\text{C}, Outlet water temperature 7\,^{\circ}\text{C}, Dry bulb temperature 35\,^{\circ}\text{C}, Wet bulb temperature 24\,^{\circ}\text{C}. DHW working condition: Inlet water temperature 15\,^{\circ}\text{C}, Outlet water temperature 55\,^{\circ}\text{C}, Dry bulb temperature 7\,^{\circ}\text{C}, Wet bulb temperature 6\,^{\circ}\text{C}. }$



ECO Home Series

SPLIT EVI DC INVERTER HEAT PUMP (R32)



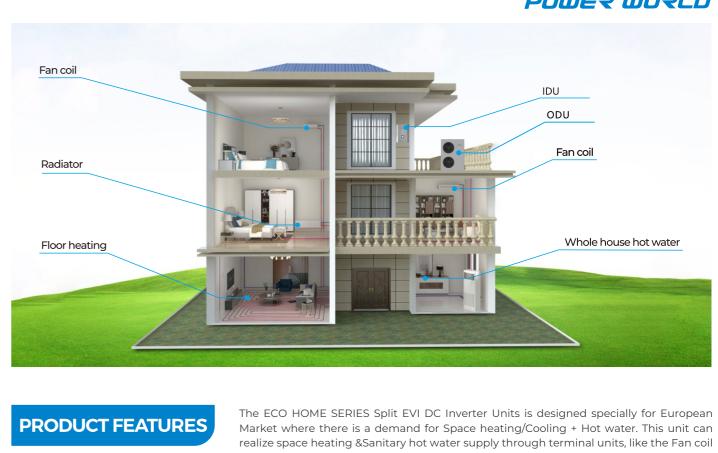
✓ DC Inverter



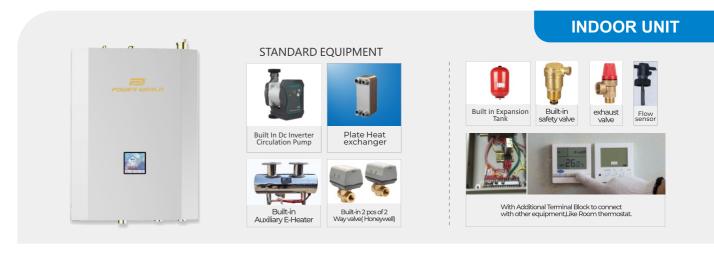




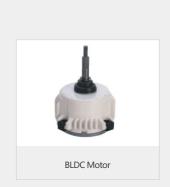




unit, Floor coil & Radiator. It is widely applicable to small & medium-sized apartment, large-sized villa etc.



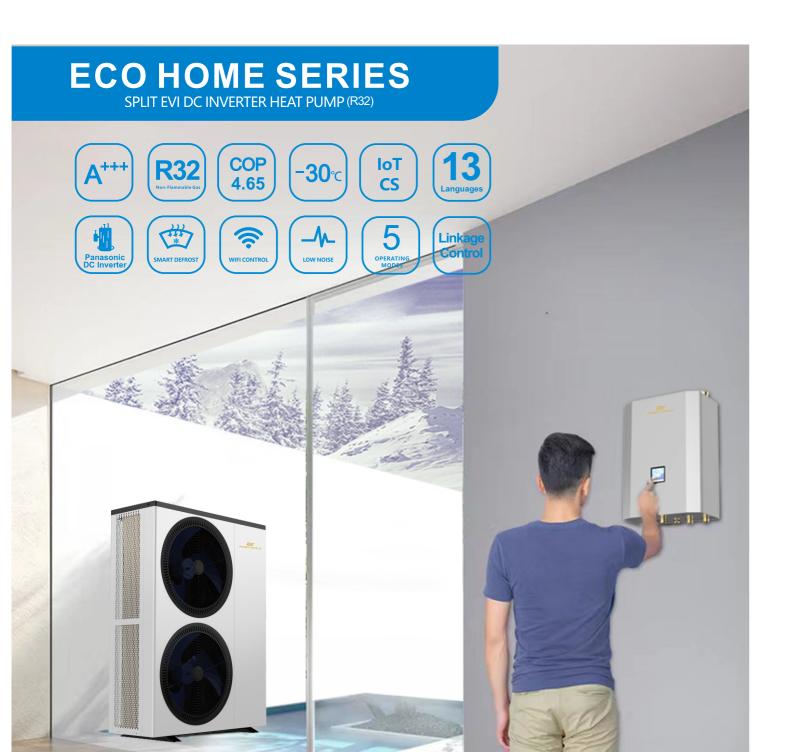








OUTDOOR UNIT





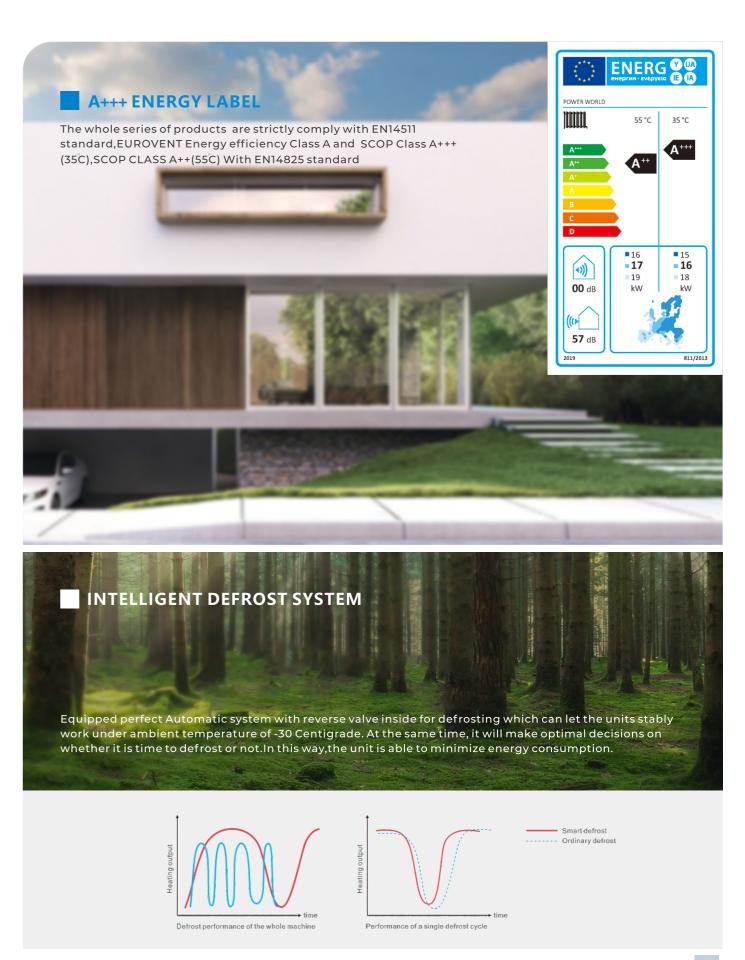


Split design with Indoor unit&Outdoor unit, Easy for installation, Screw-less appearance, Modern compact structure, With advanced remote diagnostic system to make sure ECO HOME Series Heat pump an ideal proposition for Owners of House.



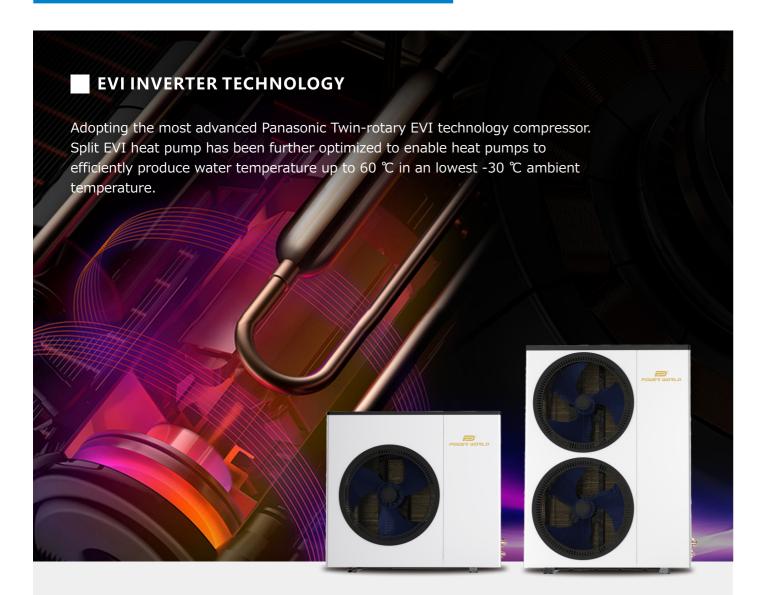
PRODUCT ADVANTAGES







PRODUCT ADVANTAGES



SMART CONTROL

The intelligent controller is adopted to realize the linkage control between the heat pump unit and the terminal application end.The WIFI APP enables users to operate their units through a smart phone wherever and whenever they are.

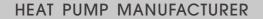


DC INV	ERTER HEAT PUMP FO	R COOLING	HEATING A	ND DHW(R3	2)	OUTD	OOR UNIT		
	PRODUCT MODEL	PW030 -DKZLRS-C/S	PW040 -DKZLRS-C/S	PW050 -DKZLRS-C/S	PW040 -DKZLRS-C	PW050 -DKZLRS-C	PW060 -DKZLRS-C		
	Heating Capacity Range (kW)	4.2~8.0	6.5~12.6	8.6~18.0	6.5~12.6	8.6~18.0	10.5~22		
Heating	Heating input Range (kW)	0.91~1.89	1.41~2.99	1.85~4.24	1.41~2.99	1.85~4.24	2.27~5.2		
	COP Range	4.23~4.64	4.21~4.62	4.25~4.65	4.21~4.62	4.25~4.65	4.23~4.63		
	Cooling capacity Range (kW)	2.9~5.8	4.2~8.2	6.2~12.3	4.2~8.2	6.2~12.3	7.2~14.2		
Cooling	Cooling input power(kW)	0.89~2.33	1.30~3.33	1.86~4.80	1.30~3.33	1.86~4.80	2.17~5.55		
	EER Range	2.49~3.27	2.46~3.23	2.56~3.33	2.46~3.23	2.56~3.33	2.56~3.32		
	Heating Capacity Range (kW)	3.6~6.8	5.5~10.5	7.3~14.6	5.5~10.5	7.3~14.6	8.8~17.5		
DIRA	Heating input Range (kW)	0.93~2.19	1.42~3.42	1.85~4.66	1.42~3.42	1.85~4.66	2.24~5.61		
DHW	COP Range	3.10~3.89	3.07~3.86	3.13~3.95	3.07~3.86	3.13~3.95	3.12~3.93		
	Heated water output (L/H)	146	225	313	225	313	375		
Refrigerant		R32							
Power supp	oly		230V/1Ph/50-60H	Z		380V/3Ph/50-60H	Z		
Working a	rea(°C)	-30~43							
IP Grade (L	evel of protection)	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4		
Anti-electric	shock Rate	I	I	I	I	I	I		
Noise (dB(A	A))	≤53	≤55	≤57	≤55	≤57	≤58		
Net weight	(kg)	85	95	135	95	135	140		
Body size(V	V*D*H) (mm)	970×475×820	1030×475×970	1000×480×1380	1030×475×970	1000×480×1380	1000×480×138		
ErP Level (3	35°C)	A+++	A+++	A+++	A+++	A+++	A+++		
ErP Level (5	55°C)	A++	A++	A++	A++	A++	A++		
Compresso	or Brand			Pana	asonic	'			
Four-way v	alve		Sanhua						
Expansion \	valve	Sanhua							
Operating \	water temperature (°C) DHW			20	~55				
Operating \	water temperature (°C) heating	20~55							
Operating \	water temperature (°C) cooling		7~35						
Remark:									

 $Heating \ working \ condition: \ Inlet \ water \ temperature \ 30^{\circ}C, \ Outlet \ water \ temperature \ 35^{\circ}C, \ Dry \ bullb \ temperature \ 7^{\circ}C, \ Wet \ bullb \ temperature \ 6^{\circ}C.$ Cooling working condition:Inlet water temperature 12°C, Outlet water temperature 7°C, Dry bulb temperature 35°C, Wet bulb temperature 24°C. DHW working condition: Inlet water temperature 15°C, Outlet water temperature 55°C, Dry bulb temperature 7°C, Wet bulb temperature 6°C.

Product model	PW040-DKZLRS-C	PW060-DKZLRS-C	PW040-DKZLRS-C	PW060-DKZLRS-C
Power supply		230V/1Ph	n/50-60Hz	
Water pump type		SHIMGE / Adjus	table DC inverter	
Max water head(m)	9	12	9	12
Auxiliary electric heater(kW)	3	3	3	3
Expansion vessel(L)	2	5	8	5
Safety valve(MPa)	0.3	0.3	0.3	0.3
3-Way Valve			ACOL	/DN25
2-Way Valve	Honywe	ell/DN25	/	/
Diameter of pipe (mm)		DI	N25	
Water pressure drop (kPa)	25	35	25	35
Body size(W*D*H) (mm)	700×5	20×272	740×5	520×312
Net weight (kg)	35	40	38	42
	PW030-DKZLRS-C/S	PW050-DKZLRS-C/S	PW030-DKZLRS-C/S	PW050-DKZLRS-C/S
Applicable Models	PW040-DKZLRS-C/S	PW050-DKZLRS-C	PW040-DKZLRS-C/S	PW050-DKZLRS-C
	PW040-DKZLRS-C	PW060-DKZLRS-C	PW040-DKZLRS-C	PW060-DKZLRS-C





THE POWER TO PROMOTE WORLD DEVELOPMENT!

HYDROBOX

Matching with the heat pump, making the installation more convenient!

- Easy Installation & Maintenance
- Component Integration Design
 - Safer and Durable •
 - Smart Home Control
- Avaiable for Floorheating, Radiator Fan Coil and Water Heating

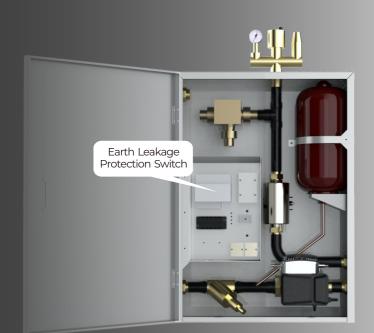


HYDROBOX	3		.
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PRODUCT MODEL	PW-03H/S	PW-03H	PW-05H/S	PW-05H
3-Way Valve	ACOL/DN25	ACOL/DN25	ACOL/DN25	ACOL/DN25
Filter	ACOL/DN25	ACOL/DN25	ACOL/DN25	ACOL/DN25
Electric Heater	3kW/220V	3kW/220V	3kW/220V	3kW/220V
DC Inverter Water Pump	Shimge	Shimge	Shimge	Shimge
Max water head(m)	12	12	12	12
Expansion Tank(L)	5L	5L	5L	5L
Diameter of pipe (mm)	DN25	DN25	DN25	DN25
Safety valve(MPa)	0.3	0.3	0.3	0.3
Leakage Switch(A)	Schneider/40A	Schneider/25A	Schneider/50A	Schneider/32A
Cabinet	Galvanized powder coated steel			
Package	Splint/Carton	Splint/Carton	Splint/Carton	Splint/Carton
Power Supply(V)	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz
Net Weight(kg)	30	30	30	30
Gross Weight(kg)	32	32	32	32
Net Dimension(mm)	700*500*220	700*500*220	700*500*220	700*500*220
Packing Dimension (mm)	760*540*260	760*540*260	760*540*260	760*540*260
Applicable Models	PW030/PW040(Single phase)	PW030/PW040(Three-phase)	PW050/PW060(Single phase)	PW050/PW060(Three-phase
Loading Quantity	248/540	248/540	248/540	248/540



HYDROBOX

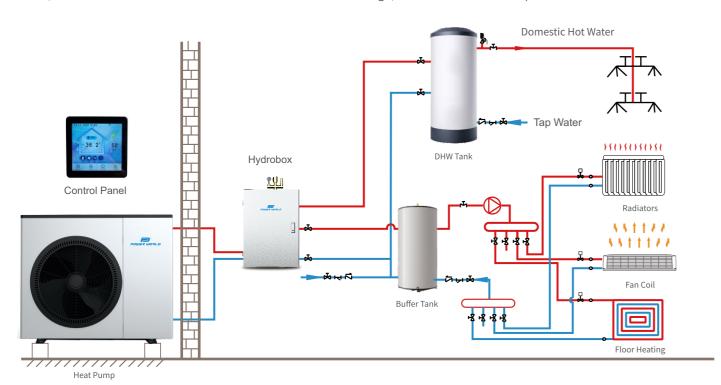


Power World's Hydrobox makes heat pump installation and maintenance easier. Hydrobox integrates water pumps, small expansion tank, valves, safety components, electric heater, and other components. When installing the heat pump system, the installer can connect the heat pump directly to the Hydrobox, which is very simple and convenient, even if you do not have a lot of experience, you can follow the instructions to complete the installation.



■ Component Integration Design

The Hydrobox integrates water pumps, valves, safety components, electric heater and other components. Compared with the traditional complex and cumbersome piping system layout, its installation area is small, about 0.4 m²; it saves installation time and costs; it can reduce human factors and environmental factor damage, and maintenance is simple.



POWER WORLD



Easy Maintenance

Hinged door design, with a door lock, easy to open the hinged door for maintenance and inspection repairs.

■ Electric Heater

Use pipeline electric heating, connect water and electricity to directly produce hot water. Cylindrical pipeline structure, 360° comprehensive heating, long service life, high temperature, high-pressure resistance, salt and alkali resistance, not easy to deform.

Expansion Tank

Using the expansion tank of the well-known Italian brand AQUASYSTEM. The new airbag structure realizes the separation of water and tank, which not only reduces the pollution of water quality but also slows down the corrosion of the tank. It adopts a one-time pressing and forming flange structure, and there is no welding point between the flange and the connecting screw. Unlike many domestic expansion tanks, the screw is welded on the flange, which is not only poor in force but also easy to rust.

■ 3-Way Valve

Using internationally renowned brand components. Compared with other 3-way valves, it takes up less space, is more reliable and durable, the working noise is low, and it can work stably in a high-temperature environment.

■ Smart Home Control

The Hydrobox system can communicate with the heat pump unit for smart home control.

■ Filter

Copper Y-strainer with drain valve. The screen area of the filter is larger than other ordinary filters. Set up a drain valve, which can be drained at any time, and the maintenance and operation are convenient and simple.

■ SHIMGE Inverter DC Water Pump

Intelligent variable frequency circulating pump, three-speed speed regulation. A well-known brand in China, using a permanent magnet motor, and intelligent frequency conversion control, the motor stator is completely shielded, and the rotating parts are made of ceramic bearings and ceramic shafts, which are wear-resistant and lubricated by clean water, which can cool the motor and reduce noise. Full pump head operation is not overloaded, and as long as it is used correctly, it is generally free of maintenance.

High Strength Metal Casing

The thickness of the sheet metal and the force of the structure are designed by 3D structural software simulation. At the same time, the inside of the unit involves a metal frame to ensure overall robustness and reliability.



Commercial Series

EVI DC INVERTER HEAT PUMP









COMMERCIAL SERIES

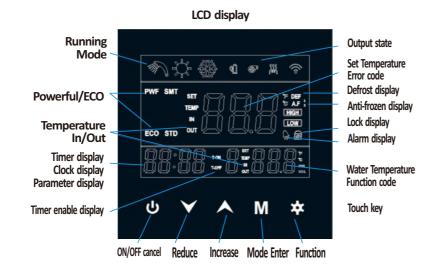




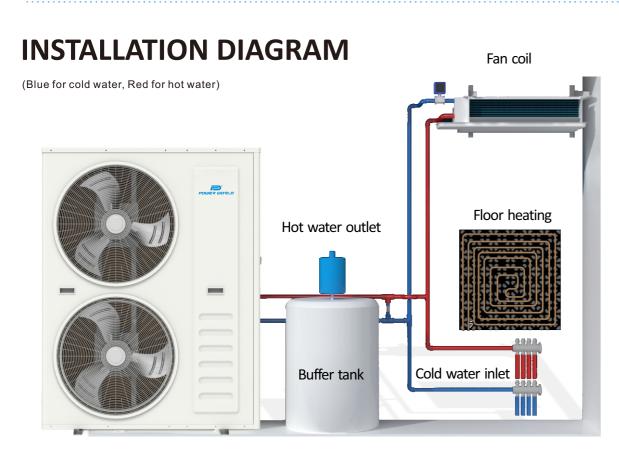
Commercial Series EVI DC Inverter Heat Pump combines eco-friendly R410A refrigerant and inverter EVI technology to produce 50°C hot water, it is applied for large buildings heating and cooling even at -30°C low temperature countries and areas.







- Heating Function
- Cooling Function



Model	PF-030 DC/E	PF-050 DC/NE	PW080- KFLRDC	PW100- KFLRDC	PW120- KFLRDC	PW150- KFLRDC	PW300- KFLRDC				
Heating working condition: Water ter	mperature(in	let/outlet) : 3	0°C/35°C, (D	B/WB): 7°C/6	°C.						
Heating capacity (kw)	7.4~12.3	11.7~20.5	12.6~25.3	13.2~27.6	15.5~35.2	19.0~43.4	38.7~87.8				
Heating input range (kw)	1.5~3.3	2.4~5.6	2.6~6.9	2.7~7.5	3.2~9.6	3.9~11.8	7.86~23.8				
Current range (A)	7.5~16.5	4.8~10.6	5.1~13.8	5.4~15.2	6.3~19.4	7.8~23.6	15.7~47.6				
Cop range	3.69~4.9	3.69~4.9 3.67~4.88 3.67~4.85 3.68~4.89 3.67~4.84 3.68~4.87 3.69									
Cooling working condition: Water temperature(inlet/outlet) : 12°C/7°C, (DB/WB): 35°C/24°C.											
Cooling capacity range (kw)	4.9~8.9	8.2~14.8	9.8~18.3	11.1~20.2	12.5~27.5	15.1~34.4	31.6~72.3				
Cooling input power(kw)	1.5~3.7	2.5~6.0	2.99~7.43	3.42~8.24	3.8~11.1	4.6~13.9	9.6~29.2				
Current range (A)	7.3~18.1	5.0~12.0	5.98~14.8	6.9~16.7	7.6~22.5	9.3~27.8	19.2~58.1				
Eer range	2.41~3.27	2.41~3.27 2.47~3.28 2.46~3.28 2.45~3.25 2.47~3.29 2.47~3.28 2.48~3.									
Refrigerant	R410A										
Power supply	230V/1Ph /50-60Hz		38	0V/3Ph/50-60	Hz						
Working area				-30~43°C							
Water circulation(m³/h)	2.29	3.70	4.35	4.75	6.05	7.46	15.10				
Water pressure drop(kpa)	25	30	46	46	50	56	60				
Ip grade (level of protection)	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4				
Anti-electric shock rate	I	I	I	I	I	I	ı				
Noise (dB(A))	≤53	≤58	≤60	≤60	≤62	≤62	≤62				
Net weight/Gross weight(kg)	140/150	170/180	205/215	205/215	300/310	400/420	700/730				
Diameter of pipe (mm)	Dn25	Dn25	Dn25	Dn25	Dn32 (male thread)	Dn32 (male thread)	Dn65 (flange)				
Body size(W*D*H) (mm)	1076×480×800	1050×480×1330	1050×480×1330	1050×480×1330	1300×580×1450	1020×980×1870	2000×1000×1900				
Loading quantity (20GP/40GP/40	40/88/88	22/42/42	22/42/42	22/42/42	12/24/24	10/18/18	5/18/18				
Erp level (35°c)	A++	A++	A++	A++	A++	A++	A++				
Erp level (55°c)	A+	A+	A+	A+	A+	A+	A+				
Compressor brand	Panasonic	Mitsubishi	GMCC	GMCC	Panasonic	Hitachi	Hitachi				
Operating water temperature(°C) Heating				9~50°C							
Operating water temperature(°C) Cooling				7~35°C							

Note:

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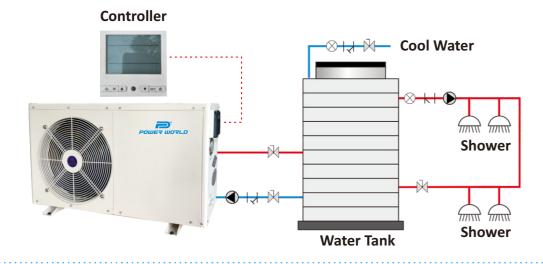


RESIDENTIAL SERIES

This series of hot water heat pumps are specially designed for residential/apartment sanitary hot water. Compared with ordinary air source heat pumps, this unit has a built-in circulating pump, which is easy to install and reduces costs.

- Four-way valve for automatic defrosting
- High efficient tube in shell heat exchanger
- Panasonic rotary compressor guarantees unit running stably
- Built-in water pump, directly connected to the water tank, easy to install
- Easy and clear LCD control panel

INSTALLATION DIAGRAM



INSIDE APPEARANCE



- ① evaporator
- ② fan blade
- 3 water-refrigerant heat exchanger
- (4) compressor
- ⑤ circulation pump

Model	PW010-KFXRS/IMT	PW015-KFXRS/IMT	PW020-KFXRS/IMT	PW030-KFXRS/IMT					
Heating capacity (kW)	3.5	4.9	6.8	9.5					
Input power (kW)	0.98	1.34	1.87	2.64					
СОР	3.57	3.66	3.64	3.60					
Rated current (A)	4.5	6.2	8.6	12.1					
Max input power (kW)	1.27	1.74	1.87	2.64					
Max current (A)	5.9	8.1	11.2	15.7					
Rated outlet water temperature (°C)	55	55	55	55					
Highest outlet water temperature(°C)	60	60	60	60					
Power supply		220V/1	lph/50Hz						
Anti-electric shock rate	I	I	I	I					
IP Grade (Level of protection)	IPX4 IPX4 IPX4 IPX4								
Refrigerant	R410A								
Operation Ambient temp (°C)	-7~43°C								
Production capacity (L/H)	75 105 146 20								
Diameter of pipe (mm)	Dn20	Dn20	Dn20	Dn25					
water circulation (m³/H)	1	2	2	2					
Water pressure drop (kPa)	20	25	25	30					
Noise (dB(A))	≤50	≤50	≤50	≤51					
Net weight/Gross weight(kg)	53/58	55/60	59/64	65/71					
Body size(W*D*H)	820×320×520	960×350×550	960×350×550	1030×350×625					
Loading quantity (20GP/40GP/40HQ)	90/192/192	90/192/192	90/192/192	90/192/192					
Condenser type		High efficiency tube in	shell heat exchanger						
Operating water temperature (°C)		9~(60°C						
Compressor brand		Panas	sonic						
Four-way valve brand		San	hua						
Expansion valve brand		San	hua						
Water pump built in		w	ilo						
Test condition: Inlet water temperature 15°C,	Outlet water temperature	55°C, Dry bulb temperatu	re 20°C, Wet bulb tempera	ature15°C.					

Note:

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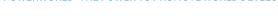






9°C~60°C





ALL-IN-ONE WATER HEATER

All-in-one water heat pump is one of the most economical systems to heat the water for family usage-offering hot water in the bathroom and kitchen by using free renewable energy from the air. Its efficiency can be up to 3-4 times more than a conventional gas boiler or electrical heater.

WASTE HEAT RECYCLING

The standard heat exchanger of the hotwater heat pump enables direct connection to a second heat generator, such as a solar heating system or boiler.

AIR DEHUMIDIFICATION

Dehumidified air in the laundry room supports laundry drying and prevents moisture-induced damage.

CIRCULATING COOLING

The room air is extracted from the storage room or a wine cellar, subsequently cooled and dehumidified in the heat pump, and finally re-introduced into the room. Recreation rooms, boiler rooms, or utility rooms are ideal installation sites.

VARIABLE CHANGE OVER OF INTAKE AIR

A duct system with integrated bypass flaps allows for variable utilization of the heat contained in the outside air or room air for the production of hot water.



POWER WORLD

Schematic Diagram

- 1 All in one heat pump
- ② Domestic water
- (3) Shower water
- **4** Washing water
- **⑤** Cold water inlet
- **6** Hot water outlet
- Air outlet
- **8** Air inlet



Model		PW010-K	ZJRS(A)				
Rated heating capacity	,	2KW /	2KW / 2.8KW				
Rated hot water(L/h)		43	/ 65				
Rated input power(KW)		0.5KW	/ 0.7KW				
СОР			4				
Rated temperature outle	et(°C)	5:	5°C				
Maxt temperature out	let(°C)	60°C	/55°C				
Power supply		220V/1	ph/50hz				
Compressor quantity(pc)		1					
Compressor type		GMCC Rotary					
Refrigerant		R134 A	/ R410A				
Noise (dB(A))		4	18				
Tank volume(L)		150L / 200L / 250L / 300L					
Case material		Galvanized steel					
Working area (°C)		-7~	43°C				
Water connections(Inch)		G3	3/4"				
Diameter(mm)		Ф570	Ф640				
Height(mm)		1758	1858				
Net weight(kg)		75	95				
Gross weight(kg)		88	112				
Container loading qty		27/54/54	24/48/48				
	L(mm)	635	700				
Measuring conditions	W(mm)	635	700				
	H(mm)	1800	1690 / 1900				
Measuring conditions		Dry bulb 20°C Wet bulb 15°C,li	nlet water 15°C Outlet water 55°C				







COMMERCIAL SERIES

Commercial Hot Water Heat Pumps adopt environmental-friendly refrigerant R410A. They are widely suitable for sanitary hot water in residential or commercial places. It can supply 55°C (Max 60°C)hot water stably 24 hours a day and works well in areas above -7°C.



Operating Temps
-7°C ~43°C



R410A Refrigerant



Max outlet water 60°C



LCD Display

KEY COMPONENTS



Support RS485

Model	PW030 -KFXRS	PW050 -KFXRS	PW100 -KFXRS	PW150 -KFXRS	PW200 -KFXRS	PW250 -KFXRS	PW300 -KFXRS	PW500 -KFXRS		
Compressor brand	Gree	Gree Copeland								
Four-way valve brand		Sanhua								
Expansion valve brand				San	hua					
Heating capacity (kW)	10.8	19	39	54	78	96	108	172		
Input power (kW)	2.8	4.5	9.4	12.8	18.2	22.6	25.5	40.5		
СОР	3.86	4.22	4.15	4.22	4.29	4.25	4.24	4.25		
Rated current (A)	12.7	8.5	17.6	24	34.1	42.4	45	72.4		
Max input power (kW)	4.2	6.8	14	18.3	24	33.5	36.5	59		
Max current (A)	19	12.3	25	32.7	42	51	65.2	105.5		
Rated outlet water temperature (°C)	55	55	55	55	55	55	55	55		
Highest outlet water temperature (°C)	60	60	60	60	60	60	60	60		
Power supply	220V/50Hz			380V/3	3N~/50Hz					
Anti-electric shock rate	_	_	1	1	I	I	-	I		
IP Grade (Level of protection)	IPX4									
Refrigerant				R4	10A					
Operation Ambient temp (°C)				-7~	43°C					
Production capacity (L/H)	232	408	838	1161	1677	2064	2322	3698		
Diameter of pipe (mm)	G3/4"	G1"	G1-1/2"	G1-1/2"	G2"	Dn65	Dn65	Dn65		
water circulation (m³/H)	1.86	3.27	6.71	9.29	13.42	16.51	18.58	29.58		
Water pressure drop (kPa)	70	70	75	85	90	80	70	70		
Noise (dB(A))	55	56	60	63	65	66	68	78		
Net weight/Gross weight(kg)	75	135	300	256	372	470	485	1300		
Body size(W*D*H)	810×695×865	740×805×1165	1500×750×1075	1530×790×1100	1705×1005×1230	2005×10)50×1400	2400×1300×2670		
Loading quantity (20GP/40GP/40HQ)	18/78/78	14/28/56	6/14/28	6/14/28	6/12/12	5/1	0/10	/		
Condenser type	High e	fficiency tar	nk heat excl	nanger	(Casing heat	exchanger			
Operating water temperature (°C)				9~(60 °с					
Test condition: Inlet water temperature 1	5°C, Outlet	water tempe	erature 55°C,	Dry bulb te	mperature 2	0°C, Wet b	ulb tempera	nture15°C.		

Note:

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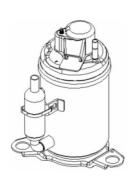


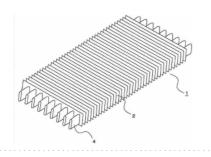
80°C HIGH-TEMPERATURE

Under the Power World's high-temperature technology and EVI technology, this series of hot water heat pumps can run stably at an ambient temperature of -5°C~43°C, the outlet water temps up to 80°C, and the operating cost is low, which can meet the high-temperature water needs of slaughterhouses, electroplating plants, printing and dyeing plants, chemical, pharmaceutical, and aquaculture industries.

Copeland compressor, EVI technology

Copeland scroll compressor, with EVI technology, supplement more capacity through economizer for high temperature hot water outlet.



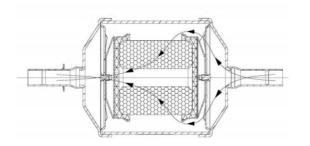


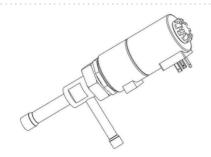
High efficient tube in tube/ shell and tube heat exchanger

Option for tube in tube and shell & tube heat exchanger, high heat transfer efficiency and easy maintenance for scales problem.

Drier-filter for more reliable system.

Drier-filter remove possible dust and moisture in refrigerant circuit, it ensures more reliable and stable system.





Electronic expansion valve

With accurate control of refrigerant flow automatically, excellent efficiency at different ambient temperature.

Model	PF030 -KFGRS-S	PF030 -KFGRS	PF050 -KFGRS	PF100 -KFGRS	PF150 -KFGRS	PF200 -KFGRS	PF250 -KFGRS	PF300 -KFGRS		
Compressor Brand		Copeland(EVI)								
Four-way valve Brand	Sanhua									
Expansion valve Brand				San	hua					
Heating capacity (kW)	7.4	8.3	13.8	27.6	41.1	55.1	65.3	82.6		
Input power (kW)	2.9	3.3	5.4	10.8	16	21.5	25.4	32.3		
СОР	2.55	2.52	2.56	2.56	2.57	2.56	2.57	2.56		
Rated current (A)	13.2	6.6	10.8	21.6	32.2	43	51	64.6		
Max input power (kW)	3.92	4.46	7.3	14.6	21.6	29.0	34.3	43.6		
Max current (A)	17.8	8.9	14.6	29.2	43.5	58.1	69.0	87.2		
Rated outlet water temperature(°C)	75	75	75	75	75	75	75	75		
Highest outlet water temperature(°C)	80	80	80	80	80	85	85	85		
Power supply	220V/50Hz			380V	/50Hz					
Anti-electric shock Rate	I	I	I	Ι	I	I	1	I		
IP Grade (Level of protection)	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4		
Refrigerant				R1:	34A					
Operation Ambient Temp(°C)				-5'	~43°c					
Production capacity (L/H)	106	119	198	396	598	790	987	1184		
Diameter of pipe (mm)	Dn25	Dn25	Dn25	Dn32	Dn50	Dn50	Dn65	Dn65		
water circulation (m³/H)	3	3	5	10	15	20	25	30		
Water pressure drop (kPa)	25	25	30	35	38	46	48	52		
Noise (dB(A))	≤55	≤55	≤58	≤66	≤68	≤68	≤70	≤75		
Net weight/Gross weight(kg)	105/111	105/111	150/160	310/330	372/412	482/532	582/642	612/675		
Body size(W*D*H)	1110X490X1260	1110X490X1260	1110X490X1410	1580×800×1600	1580×800×1600	1850×1000×1950	2000×1100×2080	2300×1100×2300		
Loading quantity (20GP/40GP/40HQ)	28/56/56	28/56/56	12/24/52	6/12/12	6/12/12	6/12/12	4/10/10	0/0/5		
Condenser type	High ef	ficiency tan	k heat exch	anger	C	asing heat e	exchanger			
Operating water temperature(°C)		9~80°c								
Test condition: Inlet water temperature 1	5°C, Outlet v	vater tempe	Test condition: Inlet water temperature 15°C, Outlet water temperature 75°C, Dry bulb temperature 20°C, Wet bulb temperature15°C.							

Note:

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WATER TANK

Domestic Hot Water Tank& Buffer Tank

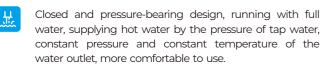


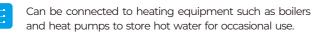
POWER WORLD Domestic Hot Water Tank

Buffer Water Tank

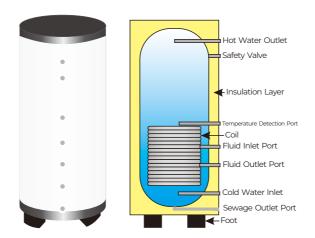
POWER WORLD







Equipped with a water return port, which can be connected to a water return device, the cold water can be heated instantly, which is highly comfortable and saves water for users.



Equipped with one-way safety valve and negative pressure safety valve, which can effectively protect the safe operation of the water tank.

Strong anode rod is standard, which can effectively prevent corrosion and prolong the service life of the water tank.

Adopts floor-mounted installation method, which is easy to install and maintain, suitable for various environments.

Coil Specifications (mm) \$25mm*15m \$25mm*20m \$25mm*20m<	Model	PW-150L	PW-200L	PW-200L-1	PW-250L	PW-300L	PW-300L-1					
Inner Tank Thickness(mm)	Tank Volume(L)	150	200	200	250	300	300					
Shell Material Color Plate	Inner Tank material	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304					
Shell Thickness(mm)	Inner Tank Thickness(mm)	1.0	1.2	1.2	1.4	1.4	1.4					
Coil Material SUS304	Shell Material	Color Plate										
Coil Type Corugated Pipe Corugated Pi	Shell Thickness(mm)	0.4	0.4	0.4	0.4	0.4	0.4					
Coil Specifications (mm) \$25mm*15m \$25mm*20m \$25mm*20m \$25mm*20m \$25mm*20m \$25mm*30m \$25mm*30m<	Coil Material	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304					
Coil Thickness(mm) 0.3 0.3 0.3 1.0 0.3 0.3 Coil Area(m) 1.6 2.2 2.2 1.5 2.2 3.3 Cold Water Inlet G3/4* M Hot Water Outlet G3/4* M G1* F Image: G1* M G1*	Coil Type	Corrugated Pipe	Corrugated Pipe	Corrugated Pipe	Ordinary Pipe	Corrugated Pipe	Corrugated Pipe					
Coil Area(m²) 1.6 2.2 2.2 1.5 2.2 3.3 Cold Water Inlet G3/4* M Hot Water Outlet G3/4* M Circulating Water Inlet G1* M G3/4* M G3/4* M G3/4* M G3/4* M G3/4* F G1/4* F Anode Rod G3/4* F G3/4* F C9/4* F C9/4	Coil Specifications (mm)	ф25mm*15m	ф 25mm*20m	ф 25mm*20m	φ22mm*22m	ф 25mm*20m	ф 25mm*30n					
Cold Water Inlet C3/4* M Hot Water Outlet G3/4* M Circulating Water Inlet G1* M G1* F G1* G1* F	Coil Thickness(mm)	0.3	0.3	0.3	1.0	0.3	0.3					
Hot Water Outlet	Coil Area(m²)	1.6	2.2	2.2	1.5	2.2	3.3					
Circulating Water Inlet G1" M G1" M G1" M G3/4" M G1" M G1" M Circulating Water Outlet G1" M G1" M G1" M G3/4" M G1" M G3/4" M G3/4" M G3/4" M G3/4" M G3/4" F Anode Rod G3/4" F G3	Cold Water Inlet	G3/4" M										
Circulating Water Outlet G1" M G1" M G1" M G3/4" M G3/4" M G1" M G1" M G3/4" F G1" F / / G1" F / / 3kW / / 3kW / 3kW / / 3kW / / 3kW / <	Hot Water Outlet	G3/4" M										
Water Return G3/4" M G3/4" F G3/4" F G3/4" M G3/4" M G3/4" M G3/4" M G3/4" F Electric Heater Port / / G1" F / / G1" F Electric Heater (KW) / / 3kW / / 3kW Temperature Detection Port G3/4" F G3/4" F	Circulating Water Inlet	G1" M	G1" M	G1" M	G3/4" M	G1" M	G1" M					
Electric Heater Port	Circulating Water Outlet	G1" M	G1" M	G1" M	G3/4" M	G1" M	G1" M					
Electric Heater (KW) / / 3kW / / 3kW Temperature Detection Port C1/4° F Anode Rod C3/4° F P/T Valve Port / C3/4° F Sewage Outlet Port C3/4° M Working Pressure Bar 8 8 8 8 8 8 Insulation Layer Polyurethane Insulation Layer Thickness(mm) 50 45 Product Size(mm) \$450°1825 \$520°1575 \$520°1575 \$560°1605 \$560°1885 \$560°1885	Water Return	G3/4" M	G3/4" F	G3/4" F	G3/4" M	G3/4" M	G3/4" F					
Temperature Detection Port G1/4* F Anode Rod G3/4* F P/T Valve Port / G3/4* F / G3/4* F Sewage Outlet Port G3/4* M Working Pressure Bar 8	Electric Heater Port	/	/	G1" F	/	/	G1" F					
Anode Rod G3/4* F P/T Valve Port / G3/4* F Sewage Outlet Port G3/4* M Working Pressure Bar 8 8 8 8 8 8 8 Insulation Layer Hickness(mm) 50 45 Product Size(mm) \$\phi_{470*1525}\$ \$\phi_{520*1575}\$ \$\phi_{520*1575}\$ \$\phi_{520*1575}\$ \$\phi_{560*1605}\$ \$\phi_{560*1885}\$ \$\phi_{560*1885}\$	Electric Heater (KW)	/	/	3kW	/	/	3kW					
P/T Valve Port / G3/4* F / G3/4* F Sewage Outlet Port G3/4* M Working Pressure Bar 8	Temperature Detection Port	G1/4* F										
Sewage Outlet Port G3/4* M Working Pressure Bar 8 9	Anode Rod	G3/4* F										
Working Pressure Bar 8 9	P/T Valve Port	/		/	G3/4" F							
Insulation Layer Polyurethane Insulation Layer Thickness(mm) 50 45 Product Size(mm) \$470*1525 \$520*1575 \$520*1575 \$560*1605 \$560*1885 \$560*1885	Sewage Outlet Port	C3/4" M										
Insulation Layer Thickness(mm) 50 45 Product Size(mm) \$450*1575 \$520*1575 \$560*1605 \$560*1885 \$560*1885	Working Pressure Bar	8	8	8	8	8	8					
Product Size(mm)	Insulation Layer		Polyurethane									
	Insulation Layer Thickness(mm)		50 45									
Package Size(mm) 540*540*1530 595*595*1590 595*595*1590 630*630*1670 630*630*1950 630*630*1950	Product Size(mm)	φ 470*1525	ф 520*1575	ф 520*1575	ф 560*1605	ф 560*1885	ф 560*1885					
	Package Size(mm)	540*540*1530	595*595*1590	595*595*1590	630*630*1670	630*630*1950	630*630*1950					



- In a heating system, the water tank can store cold or heat, and can improve the stability of the system and the comfort of use.
- It is specially designed for air source heat pumps, which can effectively reduce the starting frequency of the unit, prolong the service life of the unit and save energy.
- Automatically discharge the air in the system, avoid the highpressure protection of the outdoor unit, and at the same time reduce the cavitation of the pump impeller to protect the water pump.
- Prevent system blockage and make sewage more convenient and cleaner.



One In And One Out

Two In And Two Out

Model	PWB-40L	PWB-60L	PWB-80L	PWB-100L	PWB-100L-1	PWB-100L-2	PWB-200L	PWB-250L			
Tank Volume(L)	40	60	80	100	100	100	200	250			
Inner Tank Material	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304			
Inner Tank Thickness(mm)	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.4			
Shell Material	Color Plate										
Shell Thickness(mm)	0.4										
Circulating Water Inlet Port	G6/4" F	G6/4" F	G6/4" F	G1" F	G1" F	G6/4" F	G1" F	G1" F			
Circulating Water Outlet Port	G6/4" F	G6/4" F	G6/4" F	G1" F	G1" F	G6/4" F	G1" F	G1" F			
Water Filling Port	/	G1/2" M	2" M G3/4" F								
Exhaust Port	G1/2" F										
Electric Heater Port	/	/	/	/	G1" F	/	/	/			
Electric Heater(KW)	/	/	/	/	3kW	/	/	/			
Temperature Detection Port	/ G1/4" F										
Safety Valve Port	/	/	G1/2" M G1/2" F								
Sewage Outlet Port	G1/2" M	G1/2" M	G3/4" M								
Working Pressure Bar	8	8	8	8	8	8	8	8			
Insulation Layer	Polyurethane										
Insulation Layer Thickness(mm)	50 45										
Product Size(mm)	ф 470*555	ф 470*705	ф 470*915	ф 470*1085	ф 470*1085	ф 470*1085	ф 520*1575	ф 560*1605			
Package Size(mm)	540*540*570	540*540*720	540*540*990	540*540*1100	540*540*1100	540*540*1100	595*595*1590	630*630*1670			

POWER WORLD

GLOBAL PROJECT INSTALLATION CASES

► HOUSE HEATING COOLING AND DHW HP INSTALLATION





















