

BENEFIT HUMAN BEINGS WITH NEW ENERGY TECHNOLOGY

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ALL-IN-ONE

HOT WATER HEATER















Development History

Obtained more than 40 patents.

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

2005-2006

Obtained the EU CE, China Compulsory Certification 3C Certification, and other authoritative certifications;

Has 350 service outlets nationwide.

2009-2010

Won the most potential Shenzhen brand honorary title of "Shenzhen Famous Brand";

Won the 2014 China Home Appliance Industry "Plug" Award.

2013-2014 2015-2016

 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 reacheda

"strategic cooperation";

Obtained agricultural machinery subsidies for drying products;

2017-2018

 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;

Contribution Award;

Won the China Heat Pump Association

Won the China Heat Pump Outstanding

Industry Leading Brand Award.

2020-2024

air source heat pumps.

POWER WORLD was established,research and development, production and sales of

2004

Obtained 1S09001:2000 quality management certification.

2007-2008

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

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

2011-2012

The first batch of shortlisted national energy-saving projects.

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

The product passed the energysaving 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. Invested in the R&D of the battery thermal management system, and established the Energy Storage Division;

Enter the top three in the air source heat pump industry;

 Guangdong Power World Energy Storage Technology Co., Ltd. was established;

 Construction of Huizhou POWERWORLD New Energy Industrial Park started;

Officially enter the "Photovoltaic+Energy-Storage+Charging+Heat Pump+Flexibility" (PECHF) zero-carbon building ecological field.



Smart Home Water Heating





SG-Ready

PV-Ready

POWER WORLD





R290 All-in-One Hot Water Heater (Full DC Inverter)

It perfectly integrates the heat pump and water storage tank into one outdoor unit, fast producing hot water and save 80% energy costs for users.













≥34 STCs(Z4~Z5)

4.92 MAX COP

75°C MAX TEMP

75°C

80% 80% ENERGY SAVINGS



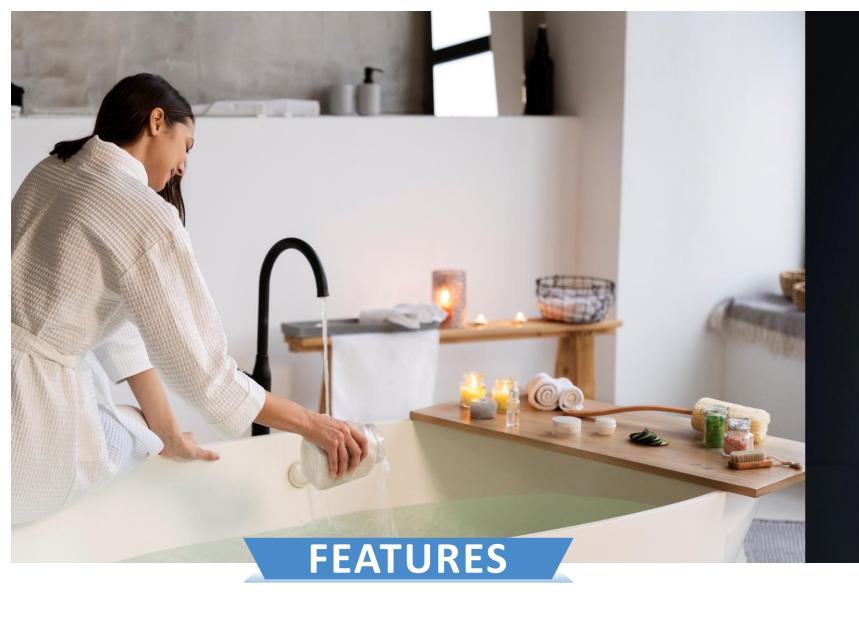














R290 DC Inverter Heat Pump System

- 1. Multi-level noise reduction technology
- 2. Multiple insulation design
- 3. Anti-freezing design for water tank
- 4. Comprehensive protection features
- 5. Dual water tank temperature sensing probe design





- Specifically designed for outdoor installation.
- R290 is a new high-efficiency natural refrigerant with low Global Warming Potential(GWP)=3, ODP=0.
- High-efficiency DC inverter technology saves 30% energy than ON/OFF units.
- Zero-cold water control, compatible with AC/DC Pumps, provides instant hot water on demand, maximizing energy efficiency.
- Power/Standard/Silent Mode, 3 operating modes to meet different heating needs.
- ✓ Dual heating technology with incorporated electric element to provide hot water up to 75°c.

- Built-in Wi-Fi module, no additional Wi-Fi box needed, control with smart App anytime anywhere.
- Fully intelligent protection system provides effective safety protection for the unit.
- Equipped with premium configuration, ensuring topnotch performance and unparalleled convenience.
- Equipped with IoT cloud management platform, data visualization, and the mainboard can be upgraded remotely.
- Eligible for solar and heat pump water heater rebates schemes such as STC & NSW ESS.
- Equipped with SG-Ready and PV-Ready ports, compatible with smart grid and photovoltaic systems, maximizing energy bill reduction.



Flat Windowed Fins Heat Exchanger

- 1. Increased heat transfer area and higher efficiency compared to regular fins, resulting in approximately 5%~15% energy efficiency improvement.
- 2. The golden anti-corrosion hydrophilic coating enhances the equipment's resistance to salt spray and oxidation effectively.



HIGHLY brand R290 DC Inverter Compressor

High-efficiency DC inverter technology saves 30% energy than ON/OFF units.



IPX4, specifically designed for outdoor installation.



Equipped with a 2.8KW high-efficiency aluminum microchannel heat exchanger, corrosion-resistant, oxidation-resistant, with 30% higher heat transfer efficiency than traditional heat exchangers.



Welling Brand DC inverter motor, large air volume, low noise, and small vibration.



Highly insulated water tank with a white enamel-coated inner tank, optional built-in 2KW electric heater.



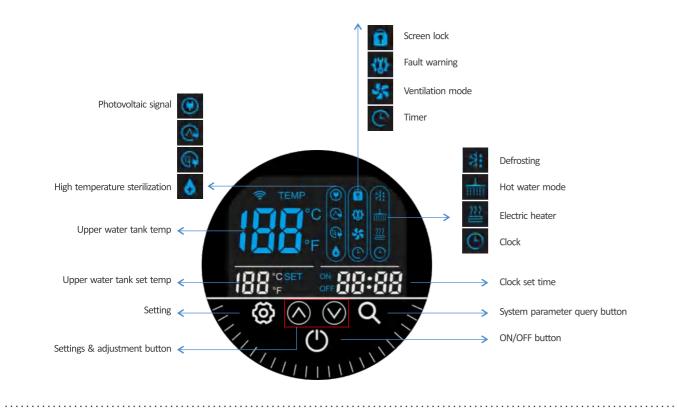
Built-in Wi-Fi module, no additional Wi-Fi box needed, control with smart App anytime anywhere.

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SMART CONTROL

Smart Touch Screen Controller

Centralize all controls on the panel, touch operation, easy and simple.



4 Zero Cold Water Smart Control Technology (Optional)

Achieving the ultimate on-demand hot water experience for a zero-cold, high-quality lifestyle.

1. Automatic Mode

1) Temperature Control Mode

Set a temperature, and the system automatically activates when the temperature falls below the set point and stops once it reaches the set temperature. This provides instant hot water, ensuring a stable supply 24/7 without waiting.



Temperature



Automatic Start/Stop





24/7 Constant temp hot water

2) Interval Circulation Mode

Set the cycle interval(5~60 minutes) and cycle time (1~3 minutes), automatically start the hot water preheating function, and provide stable hot water supply 24 hours a day.



Circulatio



Circulation Duration



2. Scheduled Mode

Why is Power World's R290 All-in-One Water Heater the Premier Choice for Residential Hot Water Needs?

1) Scheduled Temperature Control Mode

Within the "Temperature Control Mode" logic, offer 6 time periods for temperature settings, allowing customization of water temperature for each period. The circulation pump operates automatically during water usage periods, providing instant hot water and energy-saving standby mode during non-usage periods.



Multi-Time Temperature Settings



Automatic Pump Activation



Energy-Efficie Operation

2) Scheduled Interval Circulation Mode

Run the"Interval Circulation Mode" within scheduled time periods to ensure a stable supply of hot water during water usage periods, while entering an energy-saving standby mode during non-usage periods.



Scheduled Pump Operation



Adjustable Cycle Interval



Efficient Water Circulation



Customized hot water service



3. Water Flow Sensing Mode

As a supplement to the "Scheduled Temp Control Mode", it adapts to irregular hot water usage scenarios. Even outside of the set time periods, briefly opening the tap activates the circulation pump to provide hot water within a short period.



Instant



Flexible



low trigger

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4. Smart Sensing Mode

Through smart sensing technology, the system can sense the presence of users and immediately start the circulation pump to quickly deliver hot water to the required water points, achieving nearby heating and saving energy. Meanwhile, when not using hot water, the circulation system remains in standby mode, awaiting the users' arrival with minimal energy consumption.



Smart Sensing



Energy Saving



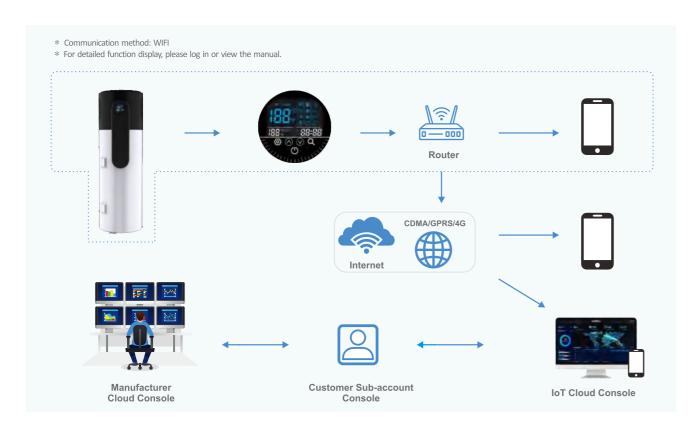
stant Hot Water

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Smart IoT Cloud Control

Real-time monitoring, data operation and maintenance, saving time and costs for users, dealers, and manufacturers.





Global device data collection, statistics, analysis and management.



Information statistics/operation status/parameter viewing and setting/fault diagnosis report/operation log, etc.

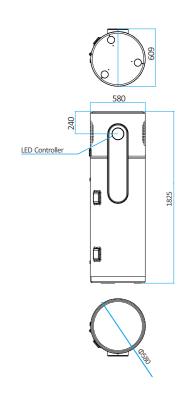


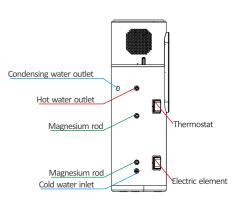
Quickly fix code defects and remotely iteratively upgrade product mainboards.

R290 All-in-One Water Heater

Full DC Inverter

	Model		PW010-KZJRS(B)/200L
	Water tank volume (L)		200
	Power Supply		220-240V/1Ph/50Hz/60Hz
	Heating capacity (kW)	Power mode	3.6
	Rated Power (W)		0.8
	Rated Current (A)		3.7
	COP		4.50
	Heating capacity (kW)	Standard mode	2.8
	Rated Power (W)		0.57
	Rated Current (A)		2.7
	COP		4.92
	Heating capacity (kW)	Slient mode	2.0
	Rated Power (W)		0.44
	Rated Current (A)		2.1
	COP		4.58
	Electric Heater Rated Power (W)		2000
	Max Input Power(W) Max Input Current(A) Max water pressure(MPa) Max exchanger working pressure(MPa) Refrigerant Working temperature range (°C) Noise(dB)		3200
			14.6
			0.8
			3.2
			R290/300g
			-7~43
			56
	Tank material		Enamel
	Water pipes connector size		DN20
	IP Grade (Level of protection)		IPX4
	Net Weight (KG)		108
	Gross Weight (KG)		120
	Net Dimension(mm)		Ф580×1825
	Package Dimension(mr	n)	680×680×1980





Testing condition: Water Temperature from 15°C to 55°C, Dry bulb temperature 20°C, Wet bulb temperature 15°C.

Note: The parameters of some products are changed in the process of continuous optimization. Please refer to the actual products.