

DOMESTIC HOT WATER HEAT PUMPS 2021



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About PHNIX

PHNIX is one of the largest manufacturers of Heat Pump Water Heaters, House Heating Heat Pumps and Swimming Pool Heat Pumps in China. PHNIX dedicates itself to being a reliable partner and building the highest quality standards to make its products stable and safe. PHNIX products are always at the forefront of energy efficiency.

With more than 413 national patents covering heat pump applications and heat pump technologies, PHNIX commits itself to technological excellence.

PHNIX provides users with integrated energy-saving solutions and products, including Residential and Commercial Heat Pump Water Heaters, House Heating & Cooling Heat Pumps, Swimming Pool Heat Pumps, Heat Pump Dehumidifiers, Industrial & Agricultural Heat Pumps.

As an international enterprise, PHNIX attaches great importance to overseas markets, exporting more than 50% of its products to Europe, Australia, South Africa, North America, South America, Middle East, and other regions.

Market Overview

Europe



America



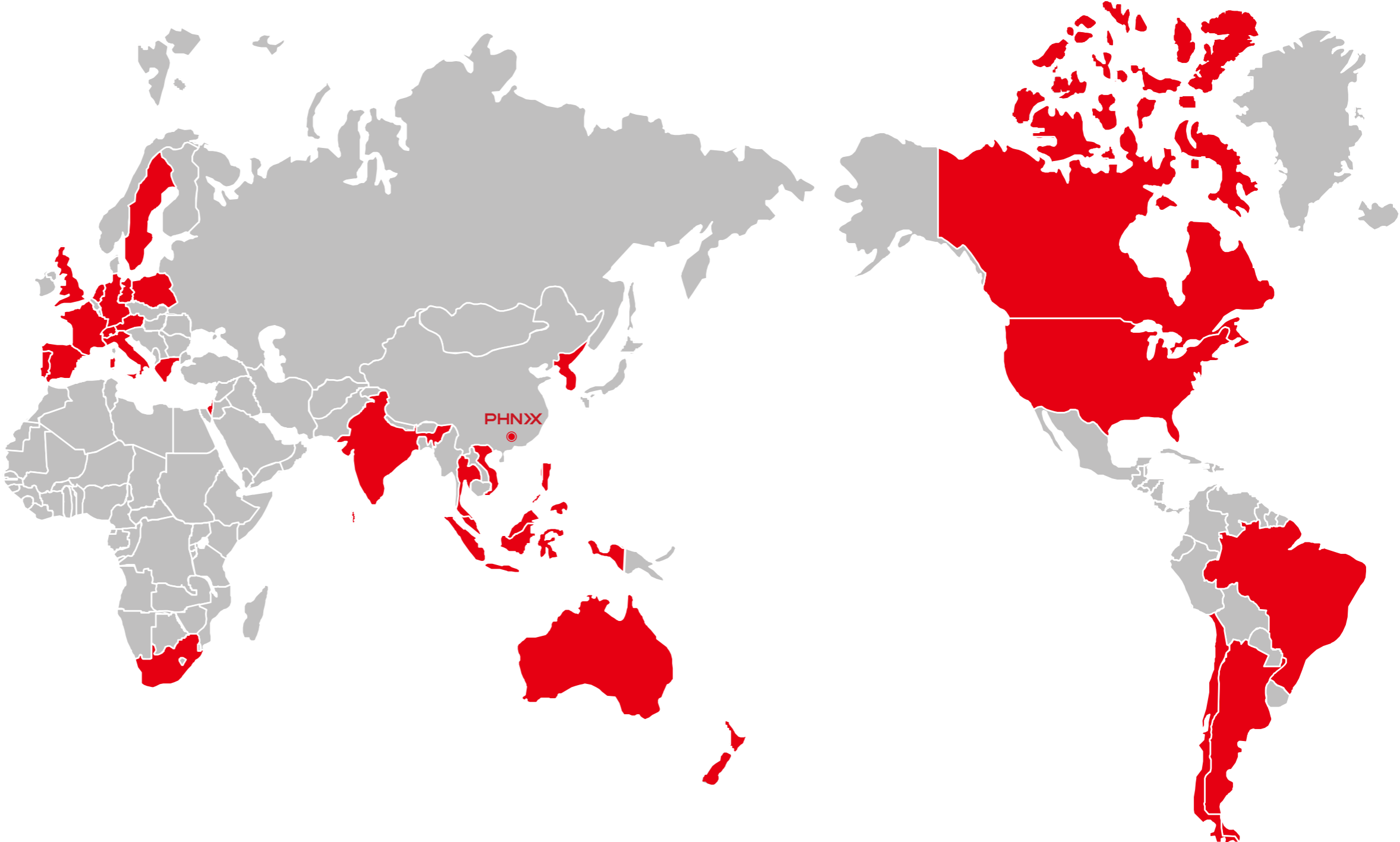
Oceania



Asia



Africa



Equipment



Foaming Machine



Automatic Packer



Folding Machine



Bending Machine



AGV Automated Transport System



General Assembly Line

Production Technology

From 2005, PHNIX had started transforming the structure of the factory and focusing on building automatic intelligence technology into the production process. Up to now, the production process has involved multiple automatic production devices including Copper Pipe Cutter, Pipe Bender Robot, Automated Vacuum Circulatory System, Robotic Palletization and Packaging, AGV and so on. Over 30 percent of automatic production devices are put into use in PHNIX' s manufacturing process.

Laboratory

Noise Laboratory

Operating noise control has always been one of the important product development pursuits of PHNIX. To this end, We has established a high-specification noise test laboratory to continuously reduce the operating noise of the product and to create a high quality of life for our customers.



Vibration Laboratory

Long time and long-distance transportation is a big trial for product quality. In order to ensure the quality of goods received by customers, in addition to the high demand of assembly technology and rigorous assembly process, PHNIX will strictly test the vibration resistance of the products before leaving the factory.



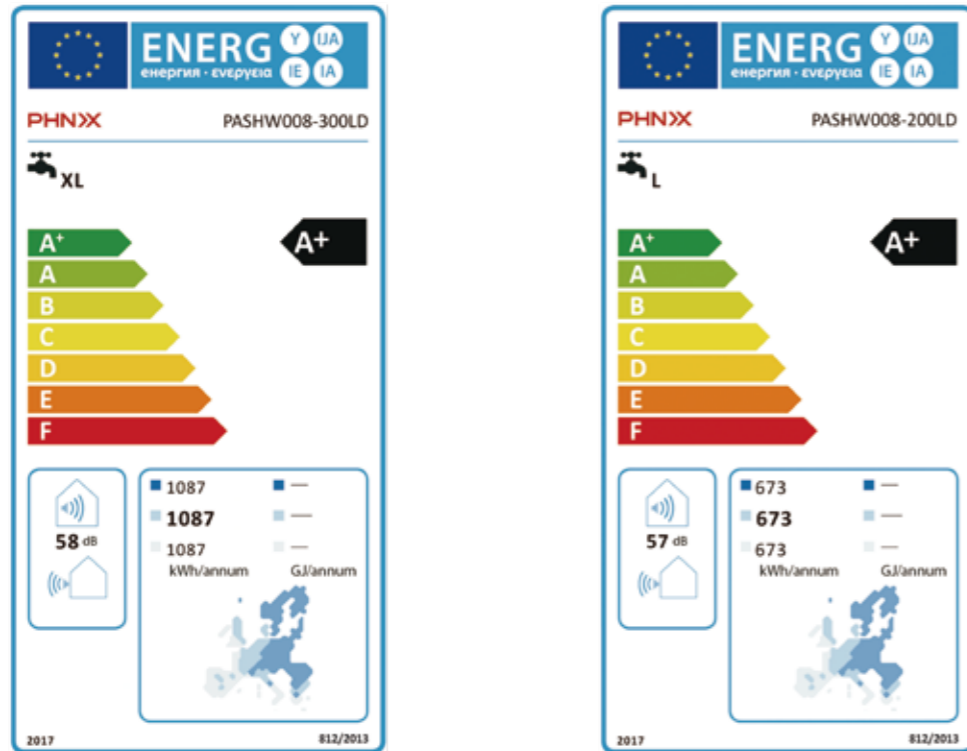
Cryogenic Laboratory

PHNIX's cryogenic laboratory can realistically simulate ambient temperatures as low as -45 °C. Only products that pass the cryogenic stable operation test can be confidently handed over to customers.



A++ Energy Label

PHNIX has always adhered to the goal of energy saving. The highest energy efficiency level of PHNIX water heaters can reach the EU Energy Efficiency A++ Level, which ensures that users can get a better experience at a lower cost.



Water heating energy efficiency classes of water heaters, categorised by declared load profiles, η_{wh} in %

	L	XL
A+	$115 \leq \eta_{wh} < 150$	$123 \leq \eta_{wh} < 160$
A	$75 \leq \eta_{wh} < 115$	$80 \leq \eta_{wh} < 123$
B	$50 \leq \eta_{wh} < 75$	$55 \leq \eta_{wh} < 80$
C	$37 \leq \eta_{wh} < 50$	$38 \leq \eta_{wh} < 55$
D	$34 \leq \eta_{wh} < 37$	$35 \leq \eta_{wh} < 38$
E	$30 \leq \eta_{wh} < 34$	$30 \leq \eta_{wh} < 35$
F	$27 \leq \eta_{wh} < 30$	$27 \leq \eta_{wh} < 30$

Cooperative Partner

Heat pump technology is our core strength. PHNIX focuses on technological research and development, adopting the most appropriate components for every heat pump. PHNIX also values technical communications and collaboration with world famous enterprises.



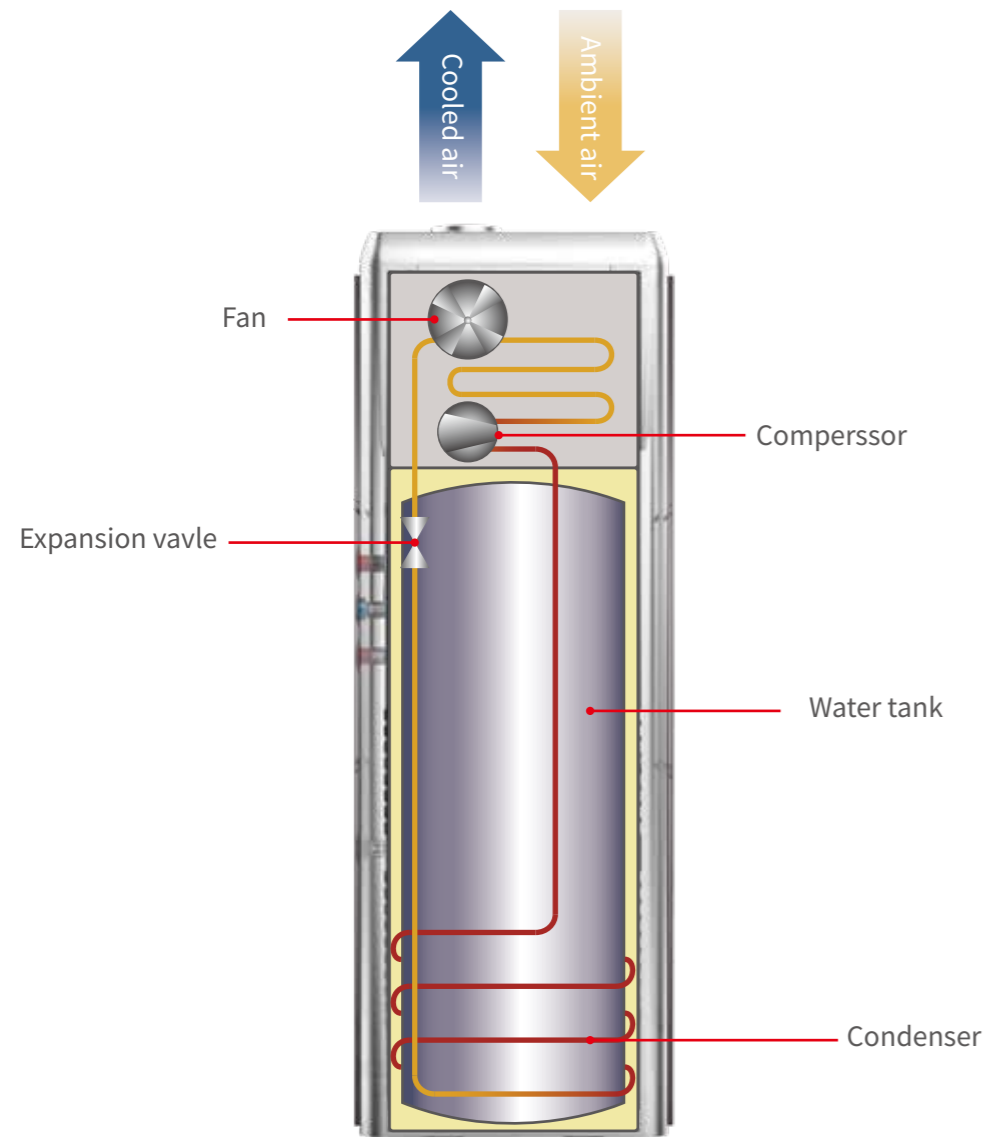
Certification

In each of its operation service, PHNIX's top priority is to ensure the reliability and quality of its products and to meet the technical & professional certifications of overseas markets. As an international brand, PHNIX holds several international certifications, including CE, StandardMark, WaterMark, ETL, SAA, ErP, CB, and so on.



How does it work?

The heat pump water heater extracts energy from the air to supply sanitary hot water. It collects up to 75% of its energy in the air, while the rest is provided by electricity. It relies on a compressor to transfer the energy from the air to the water via refrigerant, to heat the water up to your needs, and to deliver it into your house.



Always in control no matter where you are



Smart Display Family



PHNX New Smart Remote Control

PHNX innovatively designs the smart app - Hitemp for residential heat pump water heaters users. With two types of network connections for option, the WiFi and the 4G Cellular network, Hitemp highlights PHNX heat pump water heater in the market with a reliable specialty.

Various Running Modes

- Eco Mode
- Hybrid Mode
- Intelligent Mode
- Fast Heating Mode
- Vacation Mode

Multiple Extended Functions

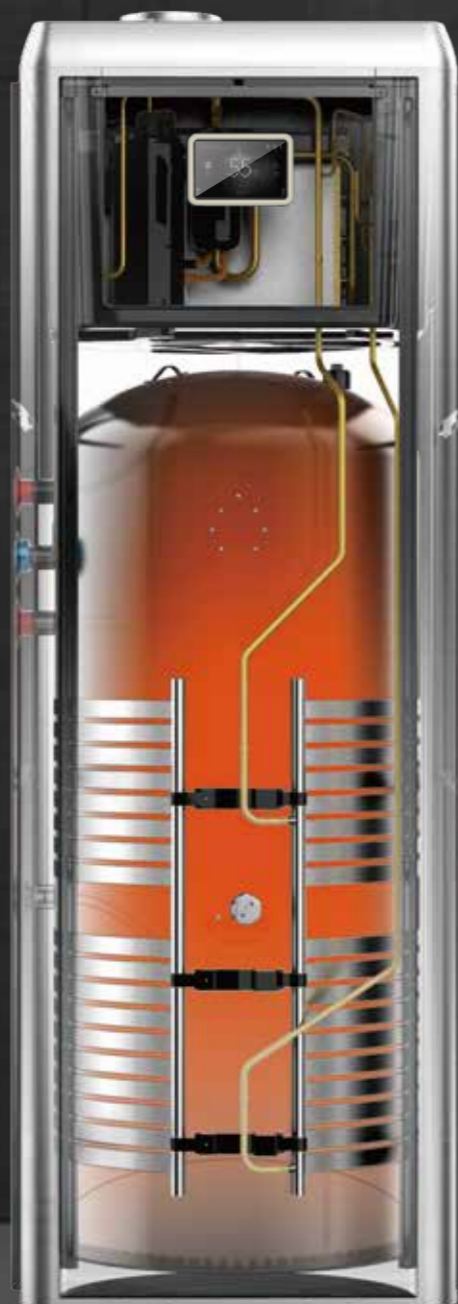
- Temperature Control & Monitor
- History Temperature Curve
- Easy Family Share
- Direct Fault Report



Hitemp

PHNIX HEAT PUMP ADVANTAGES

ENERGY COST COMPARISON



Low Noise

All-in-one noise reduction design provides users a super quiet operation environment.



Full Inverter

PHNIX's full inverter technology ensures high efficiency, energy saving and good stability.



Micro-Channel Heat Coil

Micro-Channel heat coil greatly enlarges the available contact surface between inner water tank and heat coil thus enhance the performance of heat pump water heater. The unit with this kind of device can realize a COP level up to 3.2 based on EN16147 standard.



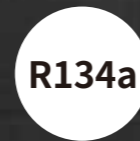
Intelligent Control

With an App on your phone, an easy click can bring you a comfortable shower as soon as you arrive at home.

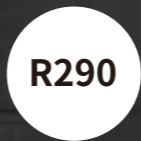


High COP

The heater uses PHNIX own patent double-side airflow cabinet which is proven to be highly efficient in heat exchange and outstandingly silent during operation.



R134a



R290



CO₂

Refrigerant

The use of new environmentally friendly refrigerants, such as R134a, can ensure a good heating effect while reducing greenhouse gas.



75%
Energy Saving
COP ≥ 4.0

Air source water heater

- Low energy consumption
- 24 hours hot water supply
- No danger of electric leakage or air leakage;



Electric water heater

- Hidden danger of leakage
- Need to wait for heating
- Short service life
- Risk of excessive water temperature



Gas water heater

- Exhaust gas emissions
- Short service life
- Water temperature and water pressure fluctuate easily



STAR PRODUCTS





airExpert - Inverter

HEAT PUMP WATER HEATER

A++



PARAMETER

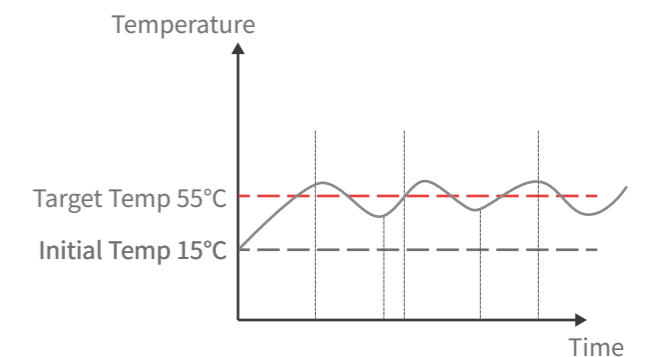
Model	/	PASHW008-200LD-KB	PASHW008-300LD-KB
Volume	L	200	300
Rated Heating Capacity	kW	2.3	2.3
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	4.6	4.6
Heating Time*	H	4.1	5.8
Refrigerant	/	R134a	R134a
Electric Heater	kW	1.5	1.5
Noise	dB(A)	42	42
Operation Range	°C	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60
Max. Water Outlet Temp.	°C	75	75
Net Weight	kg	125	150
Net Dimension	mm	570×580×1745	640×652×1819

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
 **Heat pump only;
 ***The 200L model is still in testing, temporarily not ready for sale;

airExpert - Inverter

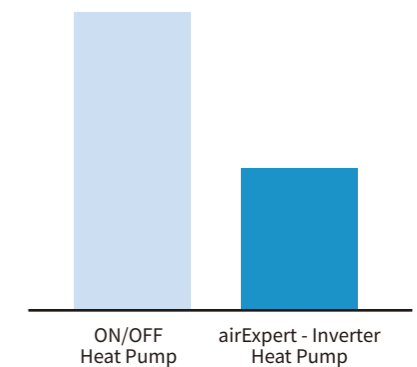
Full inverter

With the help of core inverter technology, the unit can intelligently figure out the most suitable running frequency according to the real-time ambient temperature and water temperature, so as to heat the water to the set-up temperature in a short time and maintain ideal energy efficiency.



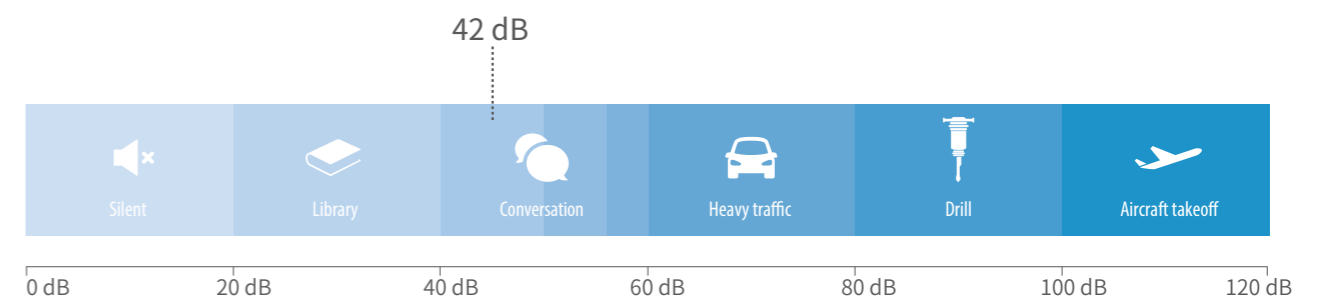
Energy saving

Compare to the ON/OFF heaters, the inverter heater can save more than 50% power in the daily running. Consumers can enjoy fast water heating and energy saving at the same time.



Low noise

A fully enclosed cabinet is specially designed for the compressor so that the running noise can be kept inside, and the noise of the whole unit can maintain extremely low.



airExpert - Premier

HEAT PUMP WATER HEATER

- ▶ Enamel water tank
- ▶ The maximum outlet water temperature 75°C
- ▶ Customizable appearance



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Premier - NO

PARAMETER			
Model	/	PASHW008-150LD-KE	PASHW015-270LD-NO
Volume	L	150	270
Rated Heating Capacity	kW	1.7	3.6
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(20/15°C)	W/W	3.9	3.8
Heating Time*	H	4.3	3.4
Refrigerant	/	R134a	R134a
Electric Heater	kW	1.5	1.5
Noise	dB(A)	45	48
Operation Range	°C	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60
Max. Water Outlet Temp.	°C	75	75
Net Weight	kg	91	130
Net Dimension	mm	φ560×1664	φ640×2002

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

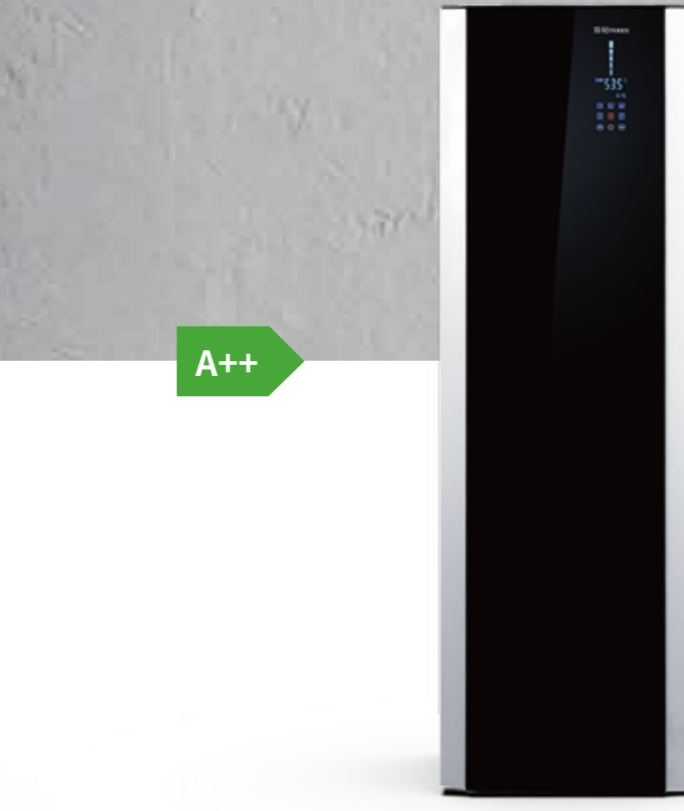


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Premier - P

PARAMETER				
Model	/	PASHW010-200L-P	PASHW010-300LD-P	PASHW015-300LD-P
Volume	L	200	300	300
Rated Heating Capacity	kW	2.5	2.5	3.3
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	3.7	3.7	3.1
Heating Time*	H	3.6	5.3	3.9
Refrigerant	/	R134a	R134a	R134a
Electric Heater	kW	1.5	1.5	1.5
Noise	dB(A)	45	45	48
Operation Range	°C	-5~43	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60	38~60
Max. Water Outlet Temp.	°C	75	75	75
Net Weight	kg	122	149	125
Net Dimension	mm	φ566×1785	φ648×1891	φ648×2006

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;



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Premier - T

PARAMETER			
Model	/	PASHW008-200LD-T	PASHW008-300LD-T
Volume	L	200	300
Rated Heating Capacity	kW	1.5	1.8
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	3.6	3.7
Heating Time*	H	4.8	7
Refrigerant	/	R134a	R134a
Electric Heater	kW	1.5	1.5
Noise	dB(A)	45	45
Operation Range	°C	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60
Max. Water Outlet Temp.	°C	75	75
Net Weight	kg	115	122
Net Dimension	mm	560×570×1731	642×642×1820

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;



airExpert - Eco

HEAT PUMP WATER HEATER

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PARAMETER

Model	/	PASHW006-150LD-S	PASHW008-200LD-J(S)	PASHW008-200LD-J(S)
Volume	L	150	200	300
Rated Heating Capacity	kW	1.6	1.8	1.8
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	3.4	3.6	3.7
Heating Time*	H	4.1	4.8	7.0
Refrigerant	/	R134a	R134a	R134a
Electric Heater	kW	1.5	1.5	1.5
Noise	dB(A)	45	45	45
Operation Range	°C	-5~43	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60	38~60
Max. Water Outlet Temp.	°C	75	75	75
Net Weight	kg	105	92	136
Net Dimension	mm	φ520×1763	φ560×1750	φ640×1870

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

airExpert - Eco

High quality water tank

From the inside to the outside, the water tank is made of safe and durable materials to ensure long service life.



Easy to operate

equipped with a simple and clear controller, even the elderly and children can easily manage it.



Fast installation

Monobloc design with no outdoor unit, just need to find a corner in the house, the water heater can be securely placed.



airExpert - Titan

HEAT PUMP WATER HEATER

- ▶ Low noise(EPP material)
- ▶ DTU/centralized control
- ▶ Ideal for hotel/resort/villa/office block
- ▶ Heating capacity 11kW



airTwins - Inverter

HEAT PUMP WATER HEATER



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airExpert - Titan

PARAMETER		
Model	/	PASHW020-315LD-KP
Volume	L	315
Rated Heating Capacity	kW	6.0
Power Supply	V/P/HZ	220~240/1/50
COP(20/15°C)	W/W	4.1
Heating Time*	H	2.7
Refrigerant	/	R134a
Electric Heater	kW	4.8
Noise	dB(A)	52
Operation Range	°C	-5~43
Water Outlet Temp. Range**	°C	38~60
Max. Water Outlet Temp.	°C	75
Net Weight	kg	157
Net Dimension	mm	φ640×2410

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

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airTwins - Inverter

PARAMETER		
Model	/	PASHW-BA
Rated Heating Capacity	kW	3.5
Power Supply	V/P/HZ	220~240/1/50
COP(20/15°C)	W/W	4.2
Refrigerant	/	R410a
Noise	dB(A)	52
Operation Range	°C	-15°C ~ 43°C
Water Outlet Temp. Range**	°C	38~60
Net Weight	kg	69
Net Dimension	mm	800×400×600

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;
***This model is still in testing, temporarily not ready for sale;

airWall - AF/AD

HEAT PUMP WATER HEATER

- ▶ Designed for small apartment
- ▶ Convenient disassembly and assembly, less space occupation

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airWall - AF

PARAMETER			
Model	/	PASHW003-65LD-AF	PASHW003-80LD-AF
Volume	L	65	80
Rated Heating Capacity	kW	0.6	0.6
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(20/15°C)	W/W	3.4	3.4
Heating Time*	H	5.1	5.1
Refrigerant	/	R134a	R134a
Electric Heater	kW	2	2
Noise	dB(A)	42	42
Operation Range	°C	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60
Max. Water Outlet Temp.	°C	60	60
Net Weight	kg	43	43
Net Dimension	mm	φ460×1100	φ460×1100

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

airWall - AD

PARAMETER			
Model	/	PASHW003-80LD-AD	PASHW003-100LD-AD
Volume	L	80	100
Rated Heating Capacity	kW	1	1
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	3.2	3.1
Heating Time*	H	3.8	4.8
Refrigerant	/	R134a	R134a
Electric Heater	kW	1.5	1.5
Noise	dB(A)	45	45
Operation Range	°C	-5~43	-5~43
Water Outlet Temp. Range**	°C	38~60	38~60
Max. Water Outlet Temp.	°C	60	60
Net Weight	kg	69	73
Net Dimension	mm	φ520×1215	φ520×1340

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

airBlock - XI

- ▶ Removable remote controller
- ▶ Equipped with a Wilo water pump
- ▶ Supports matching different external water tanks



airTop - TP

HEAT PUMP WATER HEATER

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airBlock - XI

PARAMETER

Model	/	PASHW010B-XI	PASHW020B-XI
Rated Heating Capacity	kW	3.8	6.8
Power Supply	V/P/HZ	220~240/1/50	220~240/1/50
COP(EN16147)20/15°C	W/W	4.2	4.1
Refrigerant	/	R410a	R410a
Noise	dB(A)	50	59
Operation Range	°C	-7~43	-7~43
Water Outlet Temp. Range**	°C	38~60	38~60
Net Weight	kg	49	69
Net Dimension	mm	892×345×605	936×375×605

*Testing condition is ambient temp DB/WB 20°C/15°C, water inlet/outlet is 15°C/55°C;
**Heat pump only;

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airTop - TP Heat Pump

airTop - TP heat pump can adapt to various kinds of water tanks to meet different needs. In addition, PHNIX provides customized services appearance and size for this series.



airTop - TP