

Amitime’s AquaSTAR series air source heat pump is a “low-carbon pioneer” in home hot water solutions. It redefines hot water experiences with exceptional energy efficiency: paired with an advanced R290 eco-friendly refrigerant system, leveraging air-source technology to extract heat from ambient air, it minimizes carbon footprint while maximizing energy utilization.

Smart features cater to modern living: remote control via APP for on-demand hot water scheduling, and intelligent monitoring for hassle-free operation. AquaSTAR isn’t just a high-performance choice for eco-conscious consumers—it’s a step toward a greener lifestyle.

■ Technical Data

Model		QAMF-1.3HGAAQ/200GX	QAMF-1.3HGAAQ/250GX	QAMF-1.3HGAAQ/300GX
Power supply	V/Hz/P	220V~240/50/1	220V~240/50/1	220V~240/50/1
Water tank volume	L	200L	250L	300L
Rated heat output (Prated)	kW	0.87	0.8	0.95
Rated input	kW	0.45kW	0.45kW	0.45kW
Load profile		L	XL	XL
Coefficient of Performance (COPDHW)*		3.43	3.34	3.69
Energy level		A+	A+	A+
Energy efficiency (ηwh)	%	144	138	154
Mixed water at 40°C(V40)	L	189	243	302
Heating up time (th)	h	7.57	10.57	11.05
Annual energy consumption (AEC)	kWh	711	1213	1090
Stand-by power input (Pes)	kW	0.028	0.033	0.037
Sound power level indoor	dB(A)	54	54	54
Sound power level outdoor	dB(A)	51	51	51
Electric heating element	kW	2kW	2kW	2kW
Refrigerant	g	R290/150g	R290/150g	R290/150g
Tank Protection		Magnesium rod		
Rated outlet water temperature	°C	52°C		
Max outlet water temperature	°C	70°C		
Working range	°C	-5~43°C		
Net dimension	mm	640*640*1720	640*640*1890	640*640*2060
Packed dimension	mm	725*725*1875	725*725*2045	725*725*2215
Net weight (outdoor unit)	kg	101	111	121
Gross weight (outdoor unit)	kg	117	128	140

*Test results are given based on the test condition ambient 7°C/6°C, Water from 10°C~52°C.
*Sound tested at 1m distance in a hemi-anechoic chamber.

COMPANY ADVANTAGE

Company Profile

AMITIME, established in 2003, is a professional Chinese manufacturer and a leading supplier of energy-saving heat pumps and cost-efficient solutions for the global market.

AMITIME has built an efficient and dynamic R&D and manufacturing platform, forming strategic partnerships with ES, Parker Davis, and other international heat pump and HVAC companies. With a global perspective, these collaborations have proven highly competitive and commercially successful, further solidifying our leading position in overseas markets.

With over 20 years of experience in R&D, 2 production bases, 16 standard laboratories, over 900 employees including 20% of engineers and technicians, AMITIME specializes in DC inverter air to water heat pump technologies. As one of the pioneers in DC inverter heat pump development, we have successfully launched four product ranges: residential heat pumps, swimming pool heat pumps, heat pump water heaters, commercial heat pumps, etc.

AMITIME is always committed to meeting customer demands, offering flexible and professional OEM/ODM solutions to international partners. Our mission is to deliver eco-conscious, smart and reliable heat pump products to contribute to the sustainable development of human society.

AMITIME ELECTRIC CO., LTD.

Zhongshan Factory:
Add: Yandong 5th Road, Dayan Industrial Zone, Huangpu Town, Zhongshan, Guangdong, China
Tel: +86 13652220180
Email: info@amitime.com

Foshan Factory:
Add: No. 6, Shilong West Road, Shilong Intensive Industrial Zone, Xintang Village, Lunjiao Subdistrict, Foshan, Guangdong, China

EuroHP Thermal Technologies Industry and Trade, Inc.

Turkey Factory:
Add: Ferhatpaşa Sb, Ortanca Sk No:20, 34540 Çatalca/Istanbul, Türkiye

Spanish Representative Office

Add: No. 35, La Hacienda, Calle Bajamar, Nerja, Spain
Tel: +34 872 263 646
Email: brian@amitime.com

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Heat Pump Catalog

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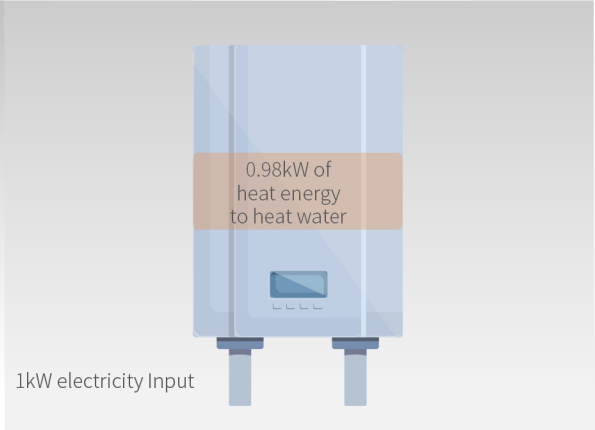
AquaSTAR Series

R290 integrated heat pump water heater

How does an air source water heater save energy for you?

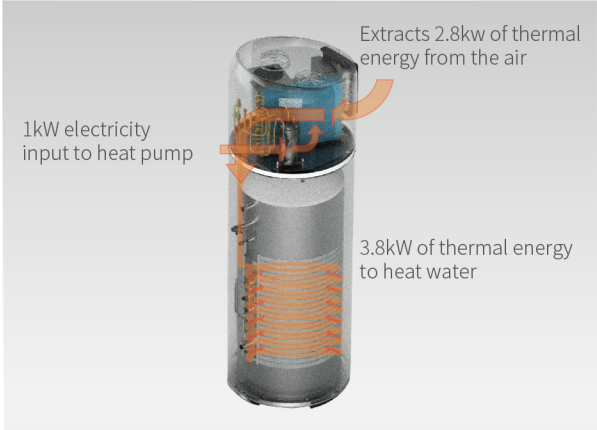
The energy-saving trick of air source water heaters lies in "harnessing extra power". Unlike ordinary electric water heaters that directly convert electrical energy into heat, which consumes much electricity and has limited efficiency, air source heat pump water heaters not only consume electrical energy but also can "freely" extract a large amount of heat from the surrounding air. With the same input of electricity, it can generate several times more heat than electric water heaters to heat water. This energy-saving logic of "gaining more with less" makes every kilowatt-hour of electricity play a greater role, reducing energy consumption and saving you real money.

Electric Water Heater: A heating element converts electrical energy into thermal energy



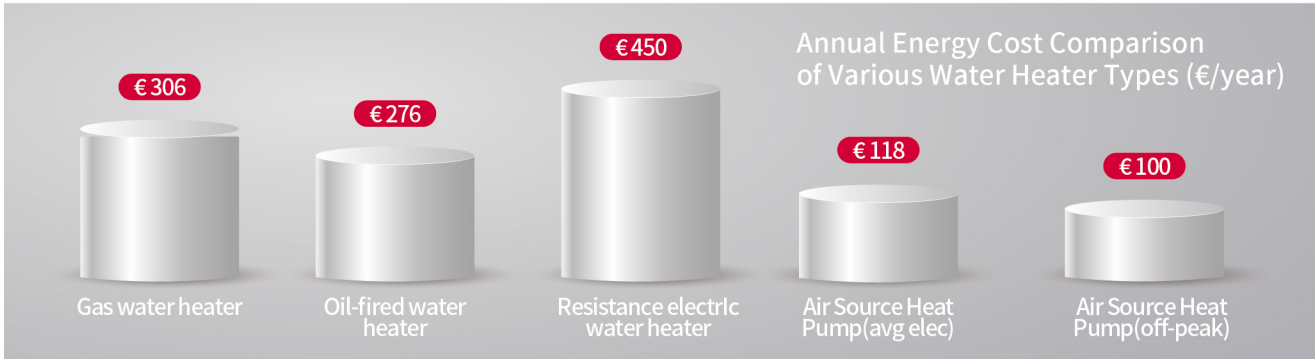
VS

Air-Source Heat Pump: A compressor moves existing heat from the air into the water



Stop wasting money on hot water, start saving with our air-source heat pump

Tired of high energy bills? The choice is clear. For a household using 150L of hot water daily, our air-source heat pump water heater delivers unmatched savings. We're transparent about the numbers:



Energy Costs: We base our calculations on real-world prices (e.g., average electricity at €0.202/kWh, off-peak at €0.170/kWh; natural gas at €0.123/kWh).

Efficiency Matters: Our heat pump boasts an impressive annual average COP of 3.8, far surpassing the efficiency of traditional gas, oil, and electric resistance heaters.

Beyond Efficiency: The Off-Peak Power Play

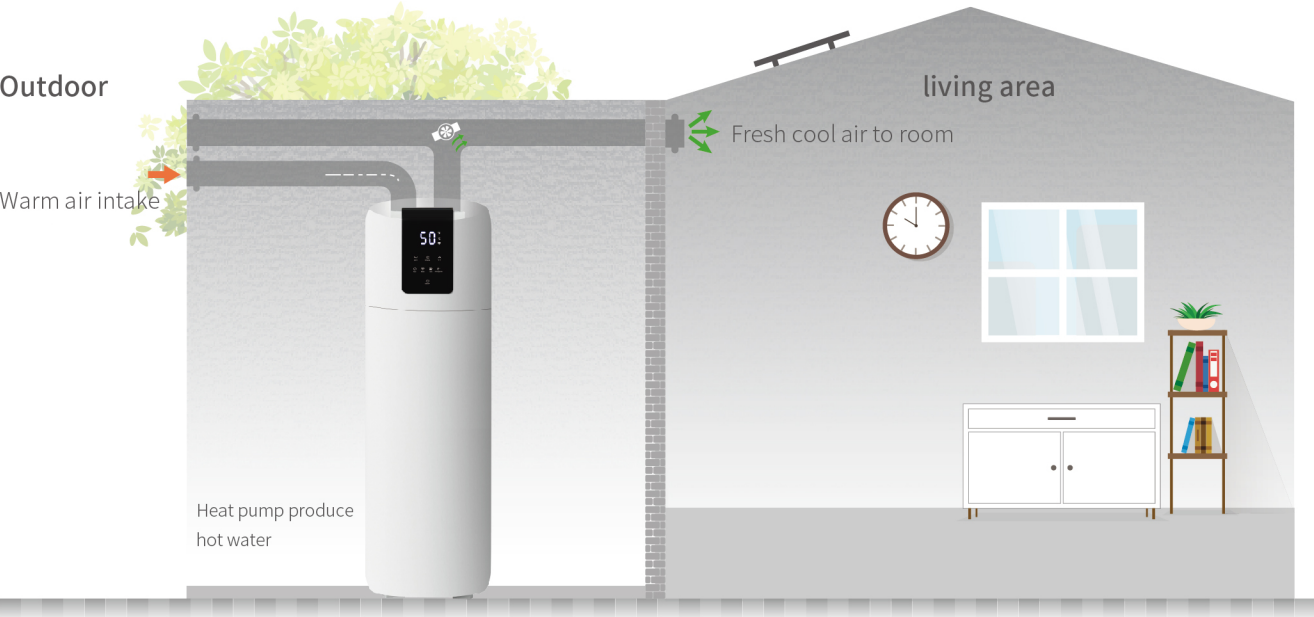
While an instant electric water heater forces you to pay peak prices every time you use hot water, our heat pump uses a smart storage design. It takes advantage of cheaper off-peak electricity rates to heat and store water in advance, providing you with hot water at a fraction of the cost.

The Bottom Line: Real Savings

Switching to our heat pump can save you a substantial €350 a year compared to a standard electric resistance water heater. Compared to natural gas and oil-fired heaters, you'll see your costs drop by an incredible 60%-70%. Make the smart choice for your wallet and the planet.

Get two-in-one comfort: hot water and cooling from a single unit

This summer, your air-source water heater does more than just heat water—it also cools your home. As the system extracts heat from the outside air to create hot water, it produces cool, low-temperature air as a natural byproduct. Instead of letting this cool air go to waste, we direct it into your living space, giving you a refreshing, air-conditioning-like effect. With just a single unit of electricity, you get: Several times the heat energy for your hot water. Simultaneous cooling for your home. It's one smart investment for double the comfort and efficiency.



More key features



Equipped with R290 eco-friendly refrigerant (ODP=0, GWP=3), boasting excellent environmental performance and high-efficiency thermodynamic properties.



Hot water temperature reaches up to 70°C, far exceeding daily needs; higher temperature enables the same-volume tank to store more heat for longer endurance.



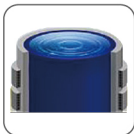
Premium touch HMI with superior waterproof and weather-resistant performance, simple and easy to operate.



Integrated DTU & Wifi modules, supporting remote control via APP anytime, anywhere to ensure a comfortable hot water experience.

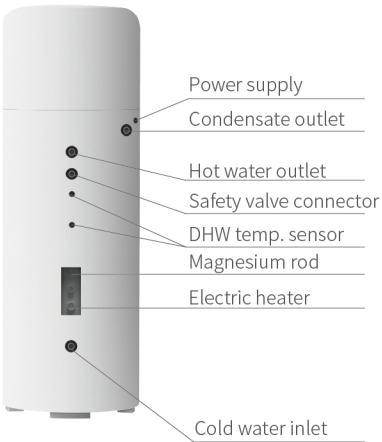


Built-in Smart Grid response mechanism, which intelligently calculates the most energy-saving water heating plan based on grid peak-valley signals via algorithms.

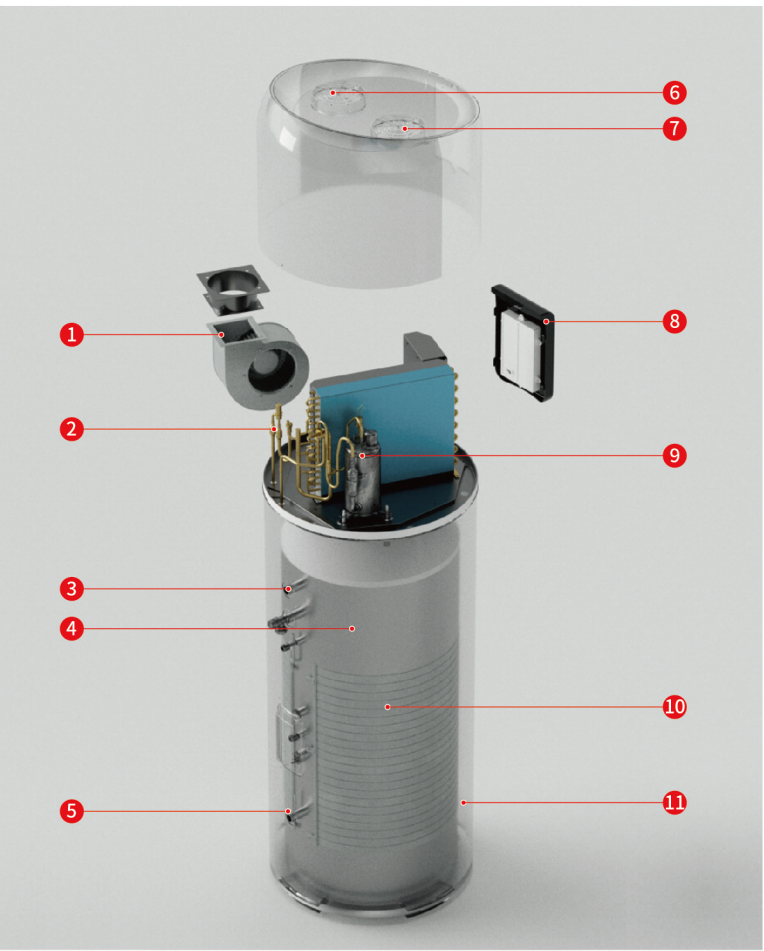


Featuring an enamel water tank paired with a microchannel heat exchanger, it ensures efficient heat transfer, clean and safe water quality, and exceptional thermal insulation performance.

Product overview



Exploded view



Components

- 1 Centrifugal fan assembly
- 2 Electronic expansion valve
- 3 Water outlet
- 4 Tank
- 5 Water inlet
- 6 Air outlet
- 7 Air inlet
- 8 Control panel
- 9 Compressor
- 10 Microchannel heat exchanger
- 11 Foam insulation layer