



# ALL IN ONE HEAT PUMP WATER HEATER



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**HOUSEHOLD SERIES**



## About Us

Zhejiang CEN New Energy Stock Co., Ltd. was established in year 2001, in the early time, the company mainly produces solar water heater controllers and other related products. In 2009, General Manager Xia Qing decided to transform the product, especially set up the heat pump department. The company began to focus on the production and sales of heat pump water heater products, and with the establishment of the water tank production workshop in 2013, formed a research and development, production and sales system of heat pump control system, heat pump water heater and water tank.

In the solar water heater control system, our company has maintained the top three level in China for a long time. In the field of heat pump water heaters, we started to enter the field of real estate engineering in 2017 and achieved remarkable results. In this field, our household heat pump water heaters Sales ranked second in the province.

In the international market, our products have passed the CE certification of the European Union by TUV, and the sales volume of our products is growing rapidly and steadily at a rate of 20%~30% per year.

In 2017, we successfully listed on the New Third Board and began to officially move into the capital market. And moved into a new factory in the same year, with a total plant area of about 50,000 square meters.

Our GMPI-certified heat pump laboratory can test the unit's capacity from 1HP to 30HP, the minimum test ambient temperature can reach -30 degrees Celsius, and the highest test ambient temperature is 52 degrees Celsius.

Looking forward to the future, we will continue to focus on the broad heat pump field, making our own contribution to energy conservation and environmental protection, providing comfortable hot water for thousands of families.

## CERTIFICATIONS & PATENTS

In each of its operation service, KONNEN's top priority is to ensure the reliability and quality of its products and meet the technical & professional certifications of overseas markets.

As an international brand, KONNEN holds several international certifications, including CE, ErP and so on.

Meanwhile KONNEN has acquired more than 50 national patents in the field of heat pump applications and heat pump technologies in China. Patent number: 1843823, 2590991, 4062762, 4064364 etc.



ISO9001-2015  
Quality Management System for Quality Assurance  
Certificate No.: 12822Q21168R1M



ISO45001-2015  
Occupation Health Safety Management System  
Certificate No.: 12822S20190R2M



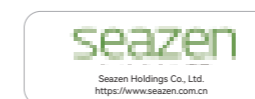
ISO14001-2015  
Environmental Management System  
Certificate No.: 12822E20209R1M



Laboratory issued by GMPI  
Certificate No.: RZ-ZL-2017171



## SOME OF OUR CUSTOMERS



# MAIN ADVANTAGES

Plug & play, easy to install  
 Running cost savings with high COP  
 Compatible with many other energy sources  
 Built-in water pump



## R134a

### Environmentally-friendly Refrigerant R134a.



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



Expansion valve controls the refrigerant volume accurately and reduces energy consumption.



Electric heater has been installed in the water tank. When the weather is cold, the heat pump unit heats slowly, and the electric heating automatically turns on for fast heating. The system has a one-button sterilization function, which uses electric heater to heat the water to 70 degrees and keep 3 minutes to eliminate Legionella. While electric heater with thermal protection, safe and reliable, long life.



High-quality stainless steel 304 water tank, built-in stainless steel 316L coil, built-in magnesium rod.



Control panel:  
 It is equipped with easy-to-operate LED touch buttons, and Wi-Fi control capabilities, allowing users to remotely monitor and control their water heating system from their smartphones or tablets, fully meets smart home life.



High temperature heat pump compressor:  
 Using well-known brand special high-temperature heat pump compressor.



Multiple protection:  
 The heat pump unit control system has its own high-temperature and high-pressure protection, high current protection, over-temperature protection, automatic defrosting and other functions.



Cheap and good quality heat pump unit:  
 KÖNNEN not only has heat pump production workshop, but also controller production workshop and water tank production workshop. It not only produces heat pump heads, but also produces control systems and water tanks. At the same time, combined with the advantages of China's huge real estate supporting market, the cost of the unit is controlled to the lowest in the industry, while ensuring the reliable operation of the unit.



Microchannel heat transfer technology:  
 Full dimensional contact heat transfer, higher heat transfer performance, long-term stable operation, with less time to satisfy the heating of more water.

### Household series All in One Heat Pump Water Heater

Model	A12ME/150	A15ME/200	A15ME/300
Power Supply	220V ~ 240V/50Hz	220V ~ 240V/50Hz	220V ~ 240V/50Hz
Rated heating capacity(W)	1200	1500	1500
Rated power(W)	397	492	492
Performance coefficient (COP)	3.02	3.05	3.05
ErP energy class	A+	A+	A+
Electric heating power(W)	2000	2000	2000
Rated outlet water temp(°C)	40~55°C	40~55°C	40~55°C
Max.outlet water temp (°C)	75°C (55~75electric-heating)		
Compressor type	Fixed frequency rotor		
Fan Motor type	Centrifugal fan		
Throttle valve	Electronic expansion valve		
Refrigerant	R134a		
Noise dB(A)	≤50	≤52	≤52
Net weight(kg)	85	100	120
Gross weight(kg)	95	111	133
Dimensions (mm)	Φ560×1540	Φ650×1450	Φ650×1805
Tank heat exchanger	microchannel heat exchanger		
Water tank volume(L)	150	200	300
Water tank working pressure	0.8MPa		
Water tank Max. pressure	1.0MPa		
Inlet and outlet pipe size	Inner thread G3/4	Inner thread G3/4	Inner thread G3/4
Remark:1.Test conditions:Base on EN16147:2017.Ambient Temp.(DB/WB):20°C/15°C, Water Temp.(In/Out):15°C/55°C.			
2.The above parameters may have some differences from the final product because of products updating, so above information is not the provision of any business contract. Please refer to final product label when buy, or refer to us for any information. Our company keeps the right to interpret.			