

# All-in-one Air Source Heat Pump Water Heater 350L & 420L

## Description:

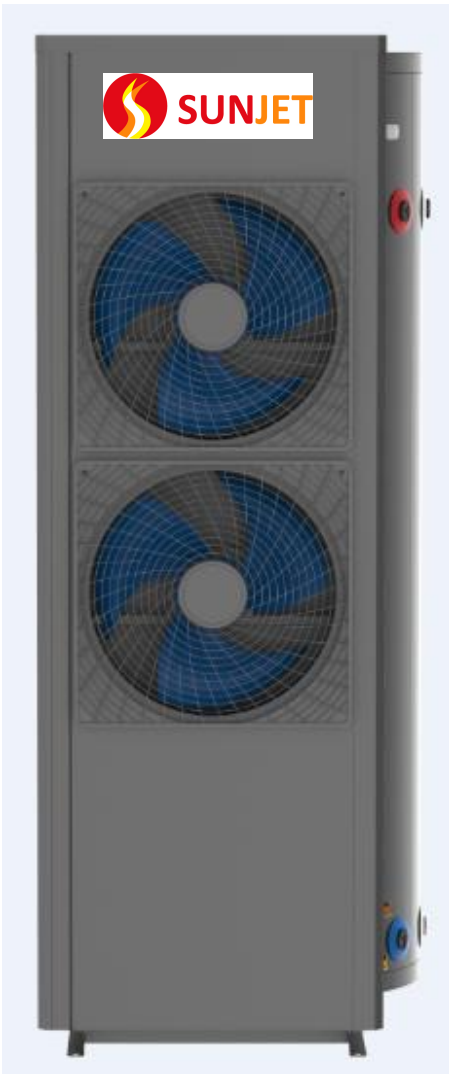
In an all-in-one heat pump water heater, the heated refrigerant is usually conveyed through a heat exchanger that's wrapped around the outside of the tank, under the insulation. The refrigerant heats the tank by conduction, transferring heat from the condenser coil through the tank shell, to the water inside.

Heat pump is a device in which the refrigerant R134a is continuously changing the shape from gas to liquid. It pumps out the solar energy from the air in the room and together with electrical energy consumed by compressor it gives out the total heating capacity which is accumulated in the water storage tank. Evaporator is an air-refrigerant heat exchanger. In the evaporator the refrigerant is vaporized at low pressure and relative low temperature. Because of vaporization the heat transfer from air to refrigerant starts. Vaporized refrigerant comes in the compressor where the pressure goes higher and also the temperature. From compressor the vaporized and high temperature steam goes in the condenser (refrigerant-water) where again the heat is transferred from refrigerant to water. The refrigerant is now in liquid shape under high pressure. After it flows through the expansion valve it reaches the basic shape and the process goes around again. The circuit is in process until the water temperature in the water storage tank reaches the set point.

## Technical Parameters and Pricing:

Model	KRS118B-350V	KRS118B-420V
Capacity	350L	420L
Inner tank material	Enameled Steel (Steel BTC340R, 2.5mm)	Enameled Steel (Steel BTC340R, 2.5mm)
Outer casing	Painted galvanized steel	Painted galvanized steel
Insulation	Polyurethane foam, 50mm	Polyurethane foam, 50mm
Rated working pressure	0.8MPa	0.8MPa
Waterproof grade	IPX4	IPX4
Condenser	Micro-Channel Heat Exchanger	Micro-Channel Heat Exchanger
Voltage	~220-240V / 50Hz	~220-240V / 50Hz
Heat capacity	5300W	5300W
Rated Power	1300W	1300W
Inlet / Outlet size	3/4"	3/4"
Electric heater	2500W	2500W
COP	4.08	4.08
Refrigerant	R134a	R134a
Energy efficiency Grade	Grade B	Grade B
Control Method	Remote display	Remote display
Noise	45dB(A)	45dB(A)
Dimensions	675×937×1720	735×1006×1720

## Product Photos:



## Details:



### High efficient Micro-Channel Heat Exchanger

Larger heat exchange area, Better heat transfer effect and More durable performance.

The energy efficiency grade of the system can reach 4.2 even above.

Not touch with water in the water tank, so the heat exchanger has no risk of corrosion, scaling, leakage, etc.

### Enamel Water Tank Brings You Healthier Water Quality

High pressure and fatigue resistance which pass 280,000 times pulse test.

High corrosion resistance because enamel coating makes the welding line of steel plate separate with water, so with long working life



#### ◆ High Efficient Compressor

Being internationally-renowned brand dedicated compressor for heat pump, it is more reliable in system matching and quieter in operation.

#### ◆ Intelligent Defrosting

With intelligent defrosting design, it can revolutionarily solve the bottlenecks of heat exchangers in cold winter such as frosting and slow heating, etc., allowing you to spend a more comfortable winter.

#### ◆ 1:1 Gold Ratio

The unit and water tank are matched with a gold ratio to eliminate the phenomenon of disharmony, so that it is more energy-saving and professional.