

## All in One Heat Pump



		RS-AH-1-80	RS-AH-2-150	RS-AH-2-200
Rated Volume	L	80	150	200
Inner Tank Material		Enameled steel (1.8mm)	Enameled steel (2.5mm)	Enameled steel (2.5mm)
Outer Casing		Painted galvanized steel		
Insulation		Polyurethane foam, 45mm		
Ambient Temperature	°C	5~45	0~45	0~45
Color		White		
COP		3.4	3.85	3.85
Power Supply		~220-240V/50Hz/1Ph		
Heating Capacity (W)	W	750	1600	1600
Rated Hot Water Output	L/H	16	36	36
Max. Water Temp.	°C	55	75	75
Max. Input Power	W	2450	3200	3200
Max. Input Current	A	12	16	16
Rated Input Power	W	220	415	415
Electric Heater Power	W	2000	2500	2500
Water Pressure	MPa	0.8		
Noise	dB(A)	≤40	≤48	≤48
Net Weight	kg	70	102	114
Refrigerant		R134a		
Compressor Brand		Panasonic		
Condenser		Micro-channel heat exchanger		
Control Method		Remote display		
Product Size	mm	Ø470 × 1075	Ø525 × 1735	Ø525 × 1955

Note: Colour Subject to Change.

All-in-one Heat Pump Models Are Available From 80 Litres to 500 Litres.

## All in One Heat Pump

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 relatively low temperature. Because of vaporization the heat transfer from air to refrigerant begins. Vaporized refrigerant comes in the compressor where the pressure increases and so does 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 at a high pressure. After it flows through the expansion valve it reaches the basic shape and the process begins again. The circuit is in process until the water temperature in the water storage tank reaches the set point.

		RS-AH-3-300	RS-AH-6-350	RS-AH-6-420
Rated Volume	L	300	350	420
Inner Tank Material		Enameled steel (2.5mm)		
Outer Casing		Painted galvanized steel		
Insulation		Polyurethane foam, 50mm		
Ambient Temperature	°C	-5~43		
Color		White	Grey	Grey
COP		4.08		
Power Supply		~220-240V/50Hz/1Ph		
Heating Capacity (W)	W	3300	5300	5300
Rated Hot Water Output	L/H	75	118	118
Max. Water Temp.	°C	75		
Max. Input Power	W	4000	5000	5000
Max. Input Current	A	19	23	23
Rated Input Power	W	827	1300	1300
Electric Heater Power	W	2500		
Water Pressure	MPa	0.8		
Noise	dB(A)	≤45		
Net Weight	kg	129	192	207
Refrigerant		R134a		
Compressor Brand		Panasonic		
Condenser		Micro-channel heat exchanger		
Control Method		Remote display		
Product Size	mm	Ø650 × 1950	Ø675 × 937 × 1720	Ø735 × 1006 × 1720

Note: Colour Subject to Change.

All-in-one Heat Pump Models Are Available From 80 Litres to 500 Litres.