

## Solahart Heat Pump SHPD Split Series

The Solahart SHPD Heat Pump is a smart, energy efficient alternative for areas where a traditional solar water heater may not be suitable. It uses one of the most abundant renewable energy sources, heat from the air, to provide hot water for your family.

Rather than using roof mounted collectors, efficient heat pump technology extracts energy from the surrounding air. Ambient warmth is used to convert the refrigerant within the sealed system into a gas. The gas is then compressed to generate even more heat which then heats the water via a tube-in-tube heat exchanger. Water from the tank is passed through the heat exchanger inside an inner copper tube. The hot refrigerant travels in the outer stainless steel tube, passing its heat into the water. What's more this process can work day or night, in sunshine and rain, all year round.

The Solahart SHPD Heat Pump utilises the latest Environmental heating technology to efficiently heat water. Free, renewable heat energy is absorbed and processed through a refrigeration system, resulting in hot water using a third of the energy of an electric water heater. These are similar savings to a solar water heater, but without needing panels mounted on your roof. It is also equipped with an electric booster designed to operate only in very cold conditions. The ceramic lined tank has a protective sacrificial anode.



### Key Benefits

- Uses heat pump technology to extract heat from the air, day or night
- Ideal for installations not suitable for traditional solar water heaters
- Integrated electric booster heats in very cold weather conditions
- Uses less energy than a conventional electric water heater\*

### Key Features

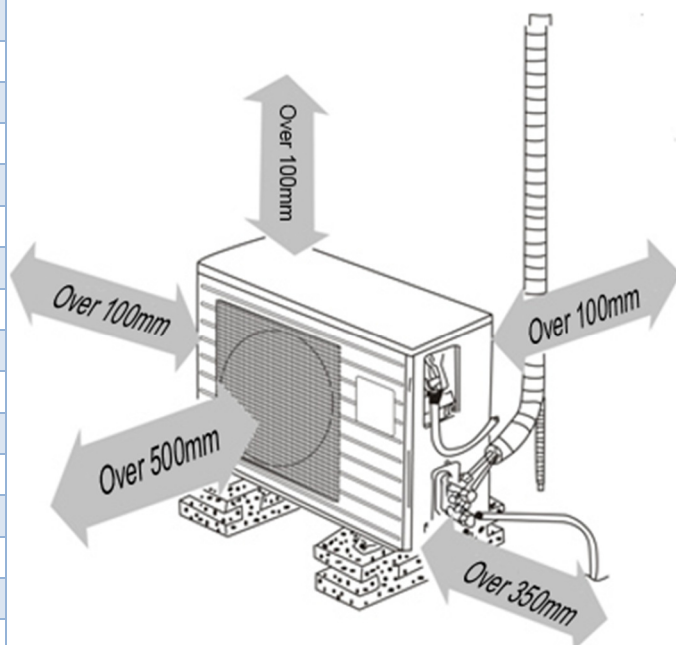
- Hot water regardless of the weather
- Works day and night, as it doesn't rely on sunlight to operate
- Reduced energy use can save CO<sub>2</sub> emissions per annum\*
- Peace of mind Solahart warranty<sup>+</sup>

## SHPD Air Sourced Heat Pump

This system is designed for outdoor installation only.  
It is not suitable for scaling or corrosive water areas.

Storage Vessel			SHPD270-207	SHPD320-207	SHPD420-207	SHPD495-207
Dimensions	lt		270	320	420	495
	Height	mm	1529	1759	1930	1911
	Width	mm	611	611	648	681
	Depth	mm	644	644	682	715
	Weight	kg	72	83	107	115
Element Sizes	kW		3.6			
Maximum Thermostat Setting	°C		70			
Water Connections						
	Inlet/Outlet/TPR	RP	RP 3/4"/DN20			
	Tank Relief Valve Setting	kPa	850			
	Maximum Mains Pressure With ECV	kPa	680			
	Maximum Mains Pressure Without ECV	kPa	800			
Distance From Module						
	Minimum	mm	800			
	Maximum	mm	3000			

Heat Pump Module		SHPD-50	
Dimensions			
	Height	mm	820
	Width	mm	850
	Depth	mm	320
	Weight	kg	58
Capacity		W	5000
Power Input		W	1280
Refrigerant Type/Volume			R134a/800gm
Noise Level		dBA	≤48
Heat Pump Recovery Rate		L/h*	107
Maximum Water Temperature		°C	60
Operating Ambient Temperature		°C	-7~43
Refrigerant Heat Exchange Method			Circulating
Water Circulating Pump			Internal
Heat Exchanger			
	Inner Tube (water)		Copper
	Outer Tube (refrigerant)		Stainless Steel
Water Connections			
	Inlet		RP 3/4"/DN20
	Outlet		RP 3/4"/DN20



\*Test Conditions: dry bulb temp = 20°C, wet bulb temp = 15°C, inlet water temp = 15°C, outlet water temp = 55°C

\*Warranty: 3 Year Cylinder, 1 Year Parts