



Heat Pump 325HAV

Description

The Solahart Heat Pump 325HAV 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 in the tank. What's more this process can work day or night, in sunshine and rain, all year round.

Installation is quick and easy. The heat pump can usually be installed in the same location as an outdoor electric water heater and connected



up to the existing plumbing and electrical connections, making it a great replacement for an existing water heater.

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 Features

- Uses heat pump technology to extract heat from the air, day and 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*
- Sleek, modern design

Key Benefits

- Can save up to 55% to 65% of water heating energy consumption*
- Hot water regardless of the weather
- Can qualify for valuable environmental incentives*
- Reduced energy use can save up to 1.5 to 2.7 tonnes of CO₂ emissions per annum*
- Peace of mind with Solahart's 5/3/2/1 year warranty[†]

* Energy savings of up to 55% to 65% shown are based on Australian Government approved TRNSYS simulation modelling using a medium load and apply when replacing an electric water heater with a Solahart heat pump. Savings and incentives will vary depending upon your location and type of water heater being replaced. The impact on an electricity account will depend on the tariff arrangement of the water heater being replaced and where you live. The Solahart 325HAV Heat Pump water heater is recommended for connection to a minimum 16 hour per day power supply. Before purchase consult your energy provider for more information on cost comparisons. Refer to solahart.com.au for further information.

[†] Solahart Warranty Details: 5/3/2/1 warranty; 5 year cylinder supply, 3 year labour on cylinder, 2 year sealed system including labour, 1 year parts including labour: applies to a single family domestic dwelling only. All other applications have a 3/1/1/1 warranty; 3 year cylinder supply, 1 year sealed system, 1 year parts, 1 year labour warranty.

The Solahart Warranty may not apply to the water heater if it is connected to a water supply with: a Chloride content > 250 mg/L; or a pH < 6; or is scaling with a Saturation Index > +0.4; or is corrosive with a Saturation Index < -1.0.

In Australia, an amended warranty period may apply where a government rebate has been received for the solar water heater. Phone 1300 769 475 for details.

325HAV Air Sourced Heat Pump

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

HAV System		
Model		325HAV
Installation location		outdoor
Storage capacity	litres	325
	US gal	86
Electric boost capacity 3.6 kW	litres	180
	US gal	47
Electric boost capacity 1.8 kW	litres	100
	US gal	26
Weight empty	kg	136
	lbs	300
Weight full	kg	461
	lbs	1016
Temperature setting	°C	60
	°F	140
Power supply*	Volts	240
Minimum power connection	hours/day	16
Rated power input	Watts	800
Refrigerant type		R134a
Height	m	1.631
	in	63.9
Width	m	0.863
	in	34.0
Depth	m	0.638
	in	25.2

* This water heater will only operate on an electricity supply with a sine wave at 50 Hz. Devices generating a square wave or a lower frequency cannot be used to supply power to the water heater.

Water Supply				
TPR valve setting	kPa	1000	psi	145
ECV* setting	kPa	850	psi	125
Max. supply pressure	kPa	680	psi	100
	with ECV			
without ECV	kPa	800	psi	115
Min. supply pressure	kPa	200	psi	29
Water connections	cold	RP3/4/20		
	hot	RP3/4/20		
TPR valve connection		RP1/2/15		

* Expansion Control Valve (ECV) is not supplied.

Energy Tip: When installing your heat pump water heater, install minimum 3 star rated shower roses and flow restrictors to your taps if you don't already have them. This will not only save water but make your energy savings go further.

Note: Technical data is subject to change.

Heat Pump Performance Specifications			
Ambient Air Temperature	Relative humidity	Recovery rate @ 45°C rise litres/hour	Co-efficient of Performance COP
10°C	60%	25	2.2
20°C	60%	33	2.8
30°C	60%	41	3.5
40°C	60%	52	4.5

Electric Boost Specifications				
Heating unit type		Copper sheath immersion element		
Supply voltage		240 V		
Hourly recovery rate @ temperature rise of:				
Rating kW	Current Amps	30°C litres/hour	40°C litres/hour	50°C litres/hour
1.8	8	51	38	31
3.6	15	103	77	62

