

RENEWABLE HOT WATER



HEAT PUMP

SOLAHART SOLANXT® ATMOS Eco 280

Models: 280HER24NT, 280HER24NT/BL, 280HER15PT



A Solahart SOLANXT® Atmos Eco 280 Heat Pump Water Heater is a smart replacement for a similar-sized electric water heater and an energy-efficient alternative for areas where a traditional solar hot water system may not be suitable.

It uses heat from the surrounding air to warm water, helping to reduce energy consumption compared with a conventional electric water heater.

The Solahart Atmos® Eco 280 Heat Pump's connectivity is powered by EcoNet® the global Wi-Fi smartphone based integrated control for water heating systems technology, allowing you to remotely manage your system while helping optimising energy use and reducing running costs if the water heater is connected to a Time of Use electricity tariff.

How you benefit:



MICROCHANNEL TECH

Advanced wrap-around microchannel heating technology for uniform and faster water heating.



COLD-CLIMATE FRIENDLY

Suitable for cold climates with an operating range from -6°C to 43°C.²



CUT YOUR ENERGY USAGE

Can save up to 73.9% on your water heating energy consumption compared to an electric water heater in Zone 3.⁴



BUILT AUSSIE TOUGH

Manufactured in Australia and suitable for harsh water conditions and comes with a 10-year cylinder warranty.^{3,5}



CONNECTED

Control hot water with the free EcoNet™ app – adjust settings, check system status, and manage remotely from your smartphone.

SOLANXT® ATMOS ECO 280

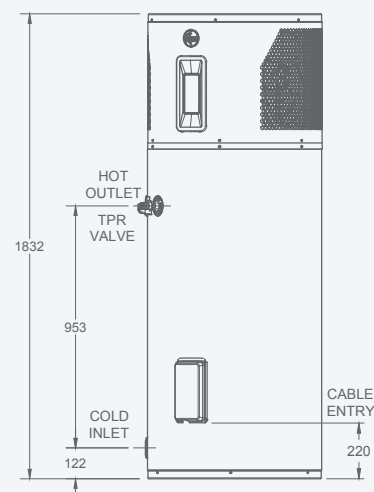
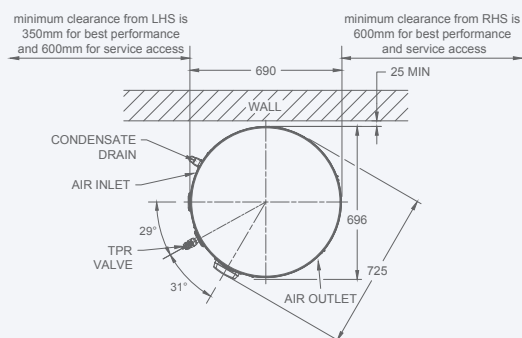
MODEL		280HER	
Product range	UNIT	Wi-Fi Hardwired	Wi-Fi Plug & Lead
Product Code Standard (Mg.) Anode		280HER24NT	280HER15PT
Product Code Blue (Al.) Anode		280HER24NT/BL	–
Storage capacity	Litres	280	
Boost capacity by electric heating unit	Litres	236	
Rated Heat Pump power input @ 240 V	Watts	690	
Coefficient of Performance (@ 19°C) ¹	COP	5.2	
Noise Level (LA90) @ 1 metre ⁶	dB(A)	48	
People per household ⁷		Up to 6	
Maximum rated power input @ 240 V	Watts	3100	2200
Element Rating	Watts	2400	1500
Recommended electrical circuit	Amps	15A	10A

Dimensions and Specifications

Tank height	mm	1832
Tank width	mm	696
Tank depth	mm	725
Heater weight – cartoned	kg	135
Heater weight – full	kg	402
Refrigerant		R290
Maximum Refrigerant charge	gms	340
IP Rating		IP24

Water Connections and Pressure Settings

Inlet & Outlet		Rp 3/4
TPR Valve setting	kPa	1000
Expansion Control Valve (ECV) setting	kPa	850
Maximum mains supply pressure		
With expansion control valve	kPa	680
Without expansion control valve	kPa	800



BACK-UP ELEMENT RECOVERY RATE @ 240V & A TEMPERATURE RISE OF

Rating (kW)	30°C (litres/hour)	40°C (litres/hour)	50°C (litres/hour)
2.4	69	52	41
1.5	44	33	26

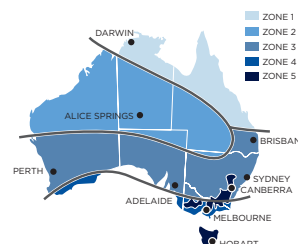
HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Relative Humidity	Average heating capacity (kW)	Recovery rate @ 45°C rise (L/hr)	Average Coefficient of Performance (COP) ¹
6°C	87%	2.1	40	3.8
19°C	66%	2.9	56	5.2
33°C	39%	3.6	69	6.6
34°C	57%	3.7	71	6.7

STCs Small-scale Technology Certificates (STCs) provide a financial incentive to encourage the installation of Solar and Heat Pump water heaters provided under a Federal Government legislated scheme.

This map shows the climate Zones within Australia which will define the number of STCs allocated to an approved Heat Pump water heater. Your installation may be eligible for STCs and may be eligible for an additional incentive in some states.

For more information on STCs visit solahart.com.au/incentives/government-incentives-stcs



Specifications and designs included in this data sheet are subject to change without notice.

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- The COP of 5.2 is the average value in the AS/NZS5125 performance test at 19°C ambient temperature over the entire heat-up process. Note that the actual COP of the product at any given time will be impacted by several factors, including the ambient and cold-water inlet temperatures at the place of installation and time of day/season of operation.
- Warranty limits regarding water chemistry. Harsh water regions – the Solahart warranty may not apply if the water heater is connected to a water supply which has a Total Dissolved Solids content >2500mg/L; is scaling with a Saturation Index >+0.8, or; is corrosive with a Saturation Index <-1.0.
- Energy savings are based on Australian Government approved TRNSYS simulation modelling using a medium load in Zone 3 and apply when replacing an electric water heater of similar size with a Solahart 280HER heat pump water heater. If the EcoNet App is not downloaded to a Device and connected to the water heater, any savings will vary depending upon your location, type of water heater being replaced, hot water consumption and fuel tariff. Before installation – seek advice as to suitability to household usage and tariffs. The impact on an electricity account will depend on the tariff arrangement of the water heater being replaced and where you live. The water heater is recommended for connection to an uninterrupted 24 hour continuous tariff power supply. Depending upon the size of the household and its hot water requirements and if the Electricity Retailer permits, an extended off-peak (overnight and day) or Extended time controlled power supply connection of a minimum 16 hours per day may also be suitable. Before purchase consult your energy provider for more information on cost comparisons.
- Warranty Periods: 10 years supply on cylinder, 3 years labour on cylinder, 3 years supply on sealed system including labour, 2 years supply and labour on all other parts. Applies to a single-family domestic dwelling only. Conditions apply. See the Solahart warranty set out in the Owner's Guide and Installation Instructions or view at www.solahart.com.au/warranty.
- A Noise Level (LA90) of 48 dB(A) was measured at 1m from the water heater during a Noise Test conducted to Standard GB/T 21317-2008 in a hemi-anechoic chamber within a laboratory. The noise level when installed may be higher due to sound reflections from adjacent walls and adjacent wall structures.