

ONE OF AUSTRALIA'S POWERFUL AND EFFICIENT INTEGRATED HEAT PUMP



FEATURES

- Advanced wrap around microchannel heating technology for uniform and faster water heating
- Suitable for cold climates with an operating range from -6°C to +43°C²
- Suitable for harsh water conditions³
- Can save up to 70% on your water heating energy consumption compared to an electric water heater in Zone 3⁴
- 2.4 kW back-up element
- User-friendly touch screen LED display
- Eligible for STCs (may be eligible for additional incentives in some states)
- 7 year cylinder warranty⁵
- Suitable for up to 5 people
- Uses R290 refrigerant with a GWP of <3





RHEEM AMBIPOWER® LOW GWP HEAT PUMP

The AmbiPower[®] 280e Heat Pump is for replacement of an electric water heater. It is an energy efficient alternative for areas where a traditional solar water heater may not be suitable. It uses the heat from the surrounding air to heat water and provides a reliable, efficient and sustainable way to reduce your water heating energy consumption.

A Heat Pump can work day and night as it extracts heat from the surrounding air and doesn't rely on direct sunlight to operate.

WHY CHOOSE A RHEEM HEAT PUMP?

AmbiPower[®] 280e Heat Pump has been designed and tested to withstand the harsh Australian conditions:

Enamel lined water tank reduces the risk of corrosion.

Microchannel technology provides a larger contact area for more efficient water heating.

Side fan design provides maximum airflow and protects from the rain.

Durable outer shell in painted sheet metal design to reduce corrosion and withstand harsh weather conditions.

LED touchscreen controller provides optimum visibility, product performance information and user-friendly operation.

COP¹ – The Coefficient of Performance for a Heat Pump is the ratio of how much useful heat it produces for water heating to the power input into the water heater. The higher the COP number, the more efficient the Heat Pump is.

Ambient Air Temperature and Humidity – The performance of a Heat Pump changes with ambient air temperature, humidity and incoming water temperature. The warmer the air temperature and the higher the Relative Humidity and the cooler the water temperature, then the higher is the heating rate of the Heat Pump. Performance specifications stated in relation to the Heat Pump are measured at predefined conditions during its testing.

Average Heating Capacity (kW) – This is how much heating power is put into the water during the heating cycle. It is expressed as an average due to the changes in heating power from the refrigeration cycle as the water is being heated and its temperature increases during the heating cycle.

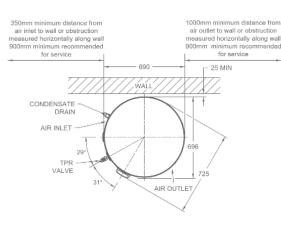
Hot Water Recovery Rate @ 45°C rise (L/hr) – Is the number of litres of water that can be heated through a 45°C temperature rise in one hour, e.g. when the air temperature is 19°C, the Heat Pump can heat 56 litres / hour of water @ 45°C rise.

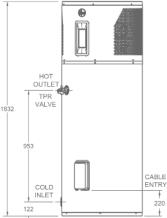
Global Warming Potential (GWP) – The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different refrigerant gases. Specifically, it measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂). The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure.





AMBIPOWER® 280e HEAT PUMP





BACK-UP ELEMENT RECOVERY RATE @ 240 V AND A TEMPERATURE RISE OF						
Rating (kW)	30°C (litres/hour)	40°C (litres/hour)	50°C (litres/hour)			
2.4	69	52	41			



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 more information on STCs visit www.rheem.com.au/rheem/help/offers-and-incentives/stcs

- 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 The core of 32 state average value in the solve 33 respectively be not made the state of the solve 33 respectively. The solve 33 respectively are solved as the solve 33 respectively. The solve 34 respectively are solved as the solve 34 respectively. The solved are solved as the solved are solved are solved as the solved are solved are solved as the solved are solved as the solved are solved are solved as the solved are solve
- 2 3.
- connected to an supply which is a structure based on a source bolds content 22500 mg/c, is scaling with a Saturation index >1.0. Energy savings of up to 70% 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 Rheem 551E280 Heat Pump water heater. 4 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: 7 years supply on cylinder, 3 years labour on cylinder, 3 years supply on sealed system including labou
- 5 1 year supply and labour on all other parts. Applies to a single-family domestic dwelling only. Conditions apply. See the Rheem warranty set out in the Owner's Guide and Installation Instructions or view at www.rheem.com.au/warranty Noise Level – A noise level of 47 dB(A) was measured at 1 m from the water heater during a Noise Test conducted to Standard
- 6. GB/T 23137-2008 in a hemi-anechoic chamber within a laboratory. The noise level when installed may be higher due to sound reflections from adjacent walls and structures.

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AMBIPOWER® 280e					
MODEL	UNIT	551E280			
Storage capacity	Litres	280			
Boost capacity - by electric heating unit	Litres	236			
Rated Heat Pump power input @ 240 V	Watts	609			
Electric heating unit rating @ 240 V	Watts	2400			
Maximum rated power input @ 240 V	Watts	3100			
Recommended electrical circuit	Amps	15			
Coefficient of Performance (@19°C) ¹	COP	5.2			
Noise Level @ 1 metre ⁶	dB(A)	47			
People per household		Up to 5			
Dimensions & 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			
Maximun Refrigerant charge	gms	340			
IP Rating		IP24			
Water connections & Pressure settings					
Inlet & Outlet		Rp 3/4			
Temperature Press Relief (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			

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			

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A Greater Degree of Good[™] represents our global commitment to sustainability.

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