

ONE OF AUSTRALIA'S POWERFUL AND EFFICIENT INTEGRATED HEAT PUMP



FE ATURES

- 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

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 CO2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure.





AMBPOWER280e HEAT PUMP

AMBIPOWER®

280e MODEL

Storage capacity

Boost capacity - by electric heating unit

Rated Heat Pump power input @ 240 V

Electric heating unit rating @ 240 V

Recommended electrical circuit

Noise Level @ 1 metre6

People per household

Tank height

Tank width

Tank depth

Refrigerant

IP Rating

Inlet & Outlet

6°C

19°C

33°C

34°C

Dimensions & specifications

Heater weight - cartoned

Maximun Refrigerant charge

ons & Pressure setting.

Temperature Press Relief (TPR) Valve setting

HEAT PUMP PERFORMANCE SPECIFICATIONS

87%

66%

39%

57%

Expansion Control Valve (ECV) setting

Maximum mains supply pressure With expansion control valve

Without expansion control valve

Heater weight - full

Maximum rated power input @ 240 V

Coefficient of Performance (@19°C)1





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

2.1

2.9

3.6

3.7

1. 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 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.
The electric element activates when the ambient air temperature is outside this range and heating of the water is required and if the heat pump has been heating in between -6°C to 7°C for 200 minutes.
Warranty limits regarding water chemistry. Harsh water regions – the Rheem 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 <+10.8.
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 #51E280 Heat Pump 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 ecommended 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 syst reflections from adjacent walls and structures.





Rheem Australia Pty Ltd. 1 Alan Street, Rydalmere, NSW 2116 Australia PO Box 7508,

Silverwater



551E280

280

236

609

2400

3100

15

5.2

47

Up to 5

1832

696

725

135

402

R290

340

IP24

Rp 3/4

1000

850

680

800

3.8

5.2

6.6

6.7

Litres

Litres

Watt

Watt

Watt

Amps

COP

dBAA

)_{mm}

mm

kg

kg

gms

kPa

kPa

kPa

kPa

40

56

69

71

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