

**NEW**



# MIGHTY POWERFUL & EFFICIENT

**ONE OF AUSTRALIA'S  
POWERFUL AND  
EFFICIENT SMALL  
INTEGRATED  
HEAT PUMPS\***

**AMBIPOWER® MDC-180**



**AMBIPOWER®  
180L HEAT PUMP**



COMES ON STEADY, HOT AND STRONG

INSTALL A



# NEW

## RHEEM HEAT PUMPS

Rheem Heat Pump water heaters are an energy efficient, affordable way to heat water. Heat Pumps use the heat from the surrounding air to heat your water and help reduce your water heating energy consumption compared to an electric water heater. They work all year round, day or night, in sunshine or rain and even on cooler days, as there is always heat in the atmosphere which can be used.

### FEATURES

- No need for solar collectors - perfect where roof space is limited
- Can use the same connections as similar size electric water heater
- Ideal upgrade from a standard electric water heater
- Vitreous Enamel lined tank
- Saves energy compared to an electric water heater
- Includes a back-up element, delivering hot water, for the coldest winter nights



### WORKS DAY & NIGHT

Heat Pumps draw heat from the surrounding air to heat the water



### COP OF 4.5

Coefficient of Performance (COP)<sup>1</sup> of 4.5 @ 19°C making Model 551180 a highly efficient water heater to help reduce energy consumption



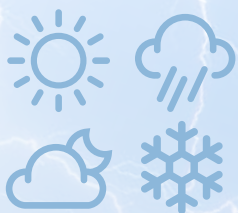
### BACK-UP ELEMENT

Provides hot water in very cold conditions



### FROST PROTECTED

Suitable for cold and frost climates<sup>2</sup>



**RENEWABLE  
HOT WATER  
NO MATTER IF  
CLOUD, RAIN  
OR SHINE**

**1 kW  
POWER  
INPUT**

**HEAT PUMP  
INCREASES  
ENERGY EFFICIENCY  
BY EXTRACTING  
HEAT FROM THE  
SURROUNDING AIR**

Note: Artistic impression of micro-channels. Actual design varies.



**4.5 kW  
FOR WATER  
HEATING**

Heat Pump absorbs the heat from the surrounding air into the refrigeration system and is drawn across the evaporator.

The microchannel heat exchanger transfers the heat from the refrigeration process.

The water reaches the set temperature through this continuous process.

COMES ON STEADY, HOT AND STRONG



ONE OF AUSTRALIA'S POWERFUL AND EFFICIENT  
SMALL INTEGRATED HEAT PUMPS\*

## RHEEM AMBIPOWER® MDc-180 litre HEAT PUMP

AmbiPower® MDc-180 Heat Pump is recommended for replacement of small to medium electric water heaters. It is an energy efficient alternative for areas where a traditional solar water heater may not be suitable. It provides a reliable, efficient and sustainable way to reduce your water heating energy consumption and doesn't rely on direct sunlight to operate.

AmbiPower is a powerful and efficient heat pump with a high Coefficient of Performance, powerful boost element and hot water recovery, making it an ideal choice.

- Advanced wrap around microchannel heating technology for uniform and faster water heating
- Suitable for cold climates with an operating range from -7°C to +43°C<sup>2</sup>
- Suitable for harsh water conditions<sup>3</sup>
- Can save up to 70% on your water heating energy consumption compared to an electric water heater in Zone 3<sup>4</sup>
- 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 warranty<sup>5</sup>
- Suitable for 1 to 3 people



Model: 551180

MODEL	551180
Tank capacity (litres)	178
Type of tank	Vitreous Enamel lined
Suitable for climate <sup>2</sup>	Tropical, Temperate and Cold climates
Frost protected	✓
Suitable for harsh water <sup>3</sup>	✓



### ENAMEL COATING

Reduces the risk of corrosion



### MICROCHANNEL TECHNOLOGY

Provides a larger contact area for more efficient water heating



### SIDE FAN DESIGN

A design that provides maximum airflow and protects from the rain



### LED TOUCHSCREEN CONTROLLER

Provides optimum visibility, product performance information and user-friendly operation



### DURABLE OUTER SHELL

In painted sheet metal design to reduce corrosion and withstand harsh weather conditions.

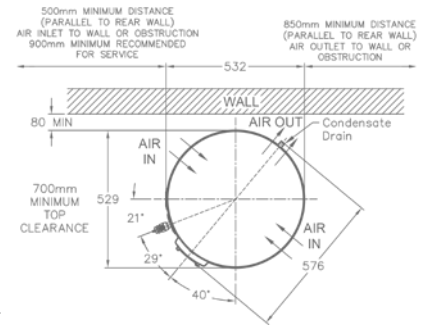
\* Based on a comparison of ≤ 200L air source electric integrated hot water Heat Pumps registered with the Australian Government's Clean Energy Regulator [www.cleanenergyregulator.gov.au/DocumentAssets/Pages/Air-source-heat-pump-models.aspx](http://www.cleanenergyregulator.gov.au/DocumentAssets/Pages/Air-source-heat-pump-models.aspx) published on Version 49 - Published 16 August 2023 and based on factors including heating output, coefficient of performance and water recovery rate using R134a refrigerant.



## ONE OF AUSTRALIA'S POWERFUL AND EFFICIENT SMALL INTEGRATED HEAT PUMPS\*

AMBIPOWER® MDc-180		
MODEL	UNIT	551180
Storage capacity	Litres	178
Boost capacity	Litres	168
Rated Heat Pump power input	Watts	683
Element rating	kW	2.4
Recommended electrical circuit	Amps	15
Coefficient of Performance (@19°C) <sup>1</sup>		4.5
Noise Level @ 1 metre <sup>6</sup>	dB(A)	48
People per household		1 to 3
Dimensions & specifications		
Tank height	mm	1810
Tank width	mm	532
Tank depth	mm	576
Heater weight - cartoned	kg	116
Heater weight - full	kg	284
Refrigerant		R134a
Water connections & 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	Recovery rate @ 45°C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance (COP) <sup>1</sup>
19°C	60	3.1	4.5

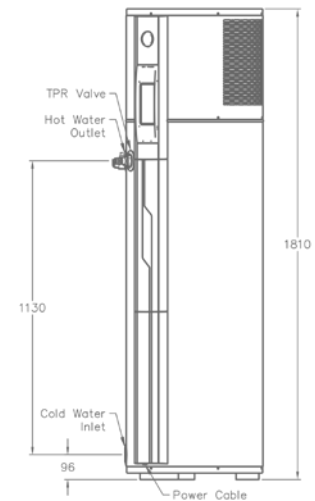


**COP<sup>1</sup>** – The Coefficient of Performance for a Heat Pump is the ratio of how much useful heat it produces for water heating to the power input into the water heater. The higher the COP number, the more efficient the Heat Pump is.

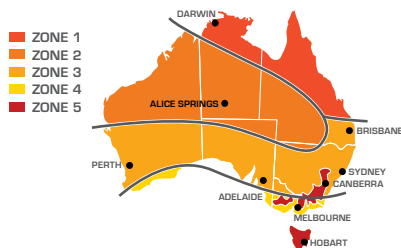
**Ambient Air Temperature and Humidity** – The performance of a Heat Pump changes with ambient air temperature, humidity and incoming water temperature. The warmer the air temperature, the higher the Relative Humidity and the cooler the water temperature, the higher is the heating rate of the Heat Pump. 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.

**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 60 litres of water from 15°C to 60°C in one hour.



BACK-UP ELEMENT RECOVERY RATE @ 240 V 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](http://www.rheem.com.au/rheem/help/offers-and-incentives/stcs)

- The COP of 4.5 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 a number of factors, including the ambient and cold-water inlet temperatures at the place of installation and time of day/season of operation.
- The specified -7°C to 43°C temperature range is the operational range of the Heat Pump. The electric element activates when the ambient air temperature is outside this range and heating of the water is required.
- 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 <-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 551180 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 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 labour, 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](http://www.rheem.com.au/warranty)
- Noise Level – A noise level of 48 dB(A) was measured at 1 m from the water heater during a Noise Test conducted to Standard 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.



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

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