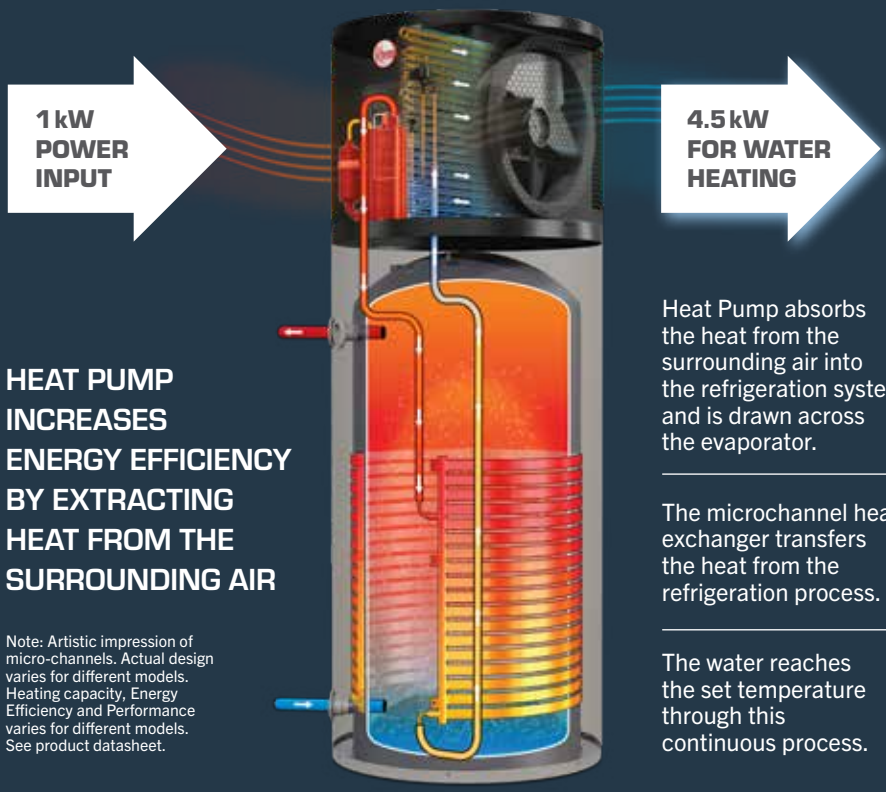
YOUR ENERGY EFFICIENT **HEAT PUMP RANGE**

WHAT ARE HEAT PUMPS AND HOW DO THEY WORK?

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 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 tanks with Rheem's exclusive Ultranamel® coating
- Saves energy compared to an electric water heater
- Energy efficient models



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

Note: Artistic impression of micro-channels. Actual design varies for different models. Heating capacity, Energy Efficiency and Performance varies for different models. See product datasheet.

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.

RHEEM ULTRANAMEL®
Exclusive coating, protects the cylinder against corrosion

POWERFUL ADVANTAGE
Superior Performance & Advantage

BACK-UP ELEMENT
Provides hot water in very cold conditions

FROST PROTECTION
Suitable for cold and frost climates

ELIGIBLE FOR STCs
PLUS may be eligible for additional State Government rebates and incentives. See rheem.com.au for details.

RHEEM MANUFACTURING IN AUSTRALIA FOR OVER 80 YEARS

Rheem has been manufacturing in Australia since 1939. Over time Rheem has grown to become a household name and a part of the fabric of Australian homes. Today Rheem is the largest water heating appliance manufacturer in Australia, offering an expansive range of water heaters including the latest in energy efficient roof mounted and ground mounted solar hot water systems and heat pump water heaters.

OUR COMMITMENT

Rheem is committed to making a difference with the products we create, for the people we serve and through the processes that drive us. We're committed to leading the way in water heating with intelligent products and sustainable solutions that make a difference for you and the planet.

OUR NETWORK

Through Rheem's national network of merchants, distributors, dealers, and installers we offer an extensive product range to suit the needs and aesthetics of your home. The network draws on Rheem's vast experience and expertise in solar water heating to offer you the best solution with a dedicated service network around the country.

IMPROVED PRODUCTS THROUGH R&D

Rheem has always maintained a steady flow of innovation and, as a global leader in heating, cooling and water heating innovation, invests heavily in research and development to continue to lead the way in product development. The latest range Rheem Heat Pump systems using Low Global Warming Potential (GWP) refrigerants heve been developed with our local teams.

Rheem is helping protect the planet by using energy-efficient refrigerants with ultra-low global warming impact.

What is GWP or Global Warming Potential of a refrigerant?
GWP stands for Global Warming Potential. In the context of refrigerants, GWP is a measure of how much heat a greenhouse gas traps in the atmosphere over a specific time, usually 100 years. When released in the atmosphere, they act like a blanket insulating the Earth and have a significant impact on global warming.

How do they benefit the environment?
Lower GWP refrigerants are considered more environmentally friendly as they have a reduced impact. In brief the lower the GWP of a refrigerant used in a Heat Pump - the lesser the impact on our environment.

REFRIGERANT GAS	GWP	
R410	2088	Traditionally used in Heat Pump Water Heaters now replaced with R32
R134a	1530	Traditionally used in most Heat Pumps
R513a	631	Less that half of GWP when replacing R134a
CO_2	1	Considered as base line for comparison
R290	0.02	An ultra low environment friendly, GWP refrigerant

OTHER EXPLANATIONS

COP – 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.

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

MEET THE HEAT PUMP RANGE

FROM AUSTRALIA'S NO.1 IN HOT WATER

The affordable energy efficient way to heat water.

L-R: AmbiPower® 180, AmbiPower® 280e, Ambiheat 270 & AmbiPower® 5kW Split heat pumps.

For product specific information scan QR code at the back.

AMBIPOWER®
180 HEAT PUMP

AmbiPower® MDc-180 Heat Pump with a 178 litre capacity is recommended for replacement of small to medium electric water heater across all climates.

It is a powerful and efficient Heat Pump with a high Coefficient of Performance (COP) and hot water recovery, making it an ideal choice for smaller families.

FEATURES

- 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
- Suitable for harsh water conditions. Optional blue anode model available
- Can save up to 70% on your water heating energy consumption compared to an electric water heater in Zone 3[3]
- 2.4kW back-up element
- Optional Plug & Lead model with 10A plug and 1.5kW back-up element available*
- LED touchscreen controller provides optimum visibility
- Timer function available
- **Uses LOW GWP R513a refrigerant**

MODEL		551D180C3P & 551D180C3/P
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 & 10
Coefficient of Performance (COP)[1]		4.9
Recommended people per household[4]		Up to 4
Noise Level (LA90) @ 1 metre[2]	dB(A)	47

HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Recovery rate* @ 45°C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance* (COP)
19°C	61	3.1	4.9

AMBIPOWER®
280e HEAT PUMP

AmbiPower® 280e Heat Pump is a ULTRA LOW GWP powerful and efficient Heat Pump with a high Coefficient of Performance (COP), powerful boost element and hot water recovery.

It is an ideal choice for larger families.

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°C
- Suitable for harsh water conditions. Optional blue anode model available
- Can save up to 73.9% on your water heating energy consumption compared to an electric water heater in Zone 3[3]
- 2.4kW back-up element
- Optional Plug & Lead model with 10A plug and 1.5kW back-up element available*
- Manufactured in Australia
- Timer function available
- **Uses R290 refrigerant with a ULTRA LOW GWP of 0.02**

HARDWIRED MODEL PLUG & LEAD MODEL		551E280 & 551E280/B 551E280R3P & 551E280R3P/BL
Storage capacity	Litres	280
Boost capacity	Litres	236
Rated Heat Pump power input	Watts	690
Element rating	kW	2.4
Recommended electrical circuit	Amps	15 & 10
Coefficient of Performance (COP)[1]		5.2
Recommended people per household[4]		Up to 6
Noise Level (LA90) @ 1 metre[2]	dB(A)	48

HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Recovery rate @ 45°C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance* (COP)
19°C	56	2.9	5.2

1. There is no unified standard to measure COP of a Heat Pump, manufacturers choose their own methods. Rheem measures COP as the average value in the AS/NZS5125 performance test at 19°C ambient temperature over the entire heat-up process. Note that the ac
was measured at 1m from the water heater during a Noise Test conducted to Standard GB/T 23137-2008 in a semi-anechoic chamber within a laboratory. The noise level when installed may be higher due to sound. 3. Energy savings are based on Australian Governmer
water should be counted as one (1) person. 5. Refer to the Split System Suitability Map for your state to see if it is suitable for your home under the product page on rheem.com.au *Product performance feature offering powerful advantage.

AMBIPOWER® SPLIT 5kW HEAT PUMP

The AmbiPower® Split 5kW with 315L VE or 325L SS Heat Pump is ideally suited for homes with narrow spaces or as a replacement for a similar sized electric water heater.

It is an energy efficient alternative for areas where a traditional solar water heater may not be suitable.

FEATURES

- 4.6kW heating capacity split unit at 19°C
- Provides faster water heating
- Suitable for cold climates with an operating range from -7°C to 43°C
- Suitable for good conditions - restrictions apply[5]
- Energy savings of up to 78%[3]
- User-friendly touchscreen LED display controller on units
- Tank made by Rheem in Australia. Heater module developed and produced for Rheem Australia
- Timer function available
- **Uses R290 refrigerant with a ULTRA LOW GWP of 0.02**

MODEL		565E315 & 565E32A
Storage capacity	Litres	315 VE & 325 SS
Boost capacity	Litres	87
Rated Heat Pump power input	Watts	1.14
Heating capacity	kW	4.6
Recommended electrical circuit	Amps	7.3
Coefficient of Performance (COP)[1]		4.5
Recommended people per household[4]		Up to 6
Noise Level (LA90) @ 1 metre[2]	dB(A)	47

HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Recovery rate* @ 45°C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance* (COP)
19°C	87	4.6	4.5

AMBIHEAT® 270 HEAT PUMP

Ambiheat® HDc-270 Heat Pump is part of the Platinum Series range of Rheem products with highest water recovery.

FEATURES

- Advanced wrap around microchannel heating technology for uniform and faster water heating
- Suitable for cold climates with an operating range from -5°C to 43°C
- Suitable for harsh water conditions. Optional blue anode model available
- Can save up to 73% on your water heating energy consumption compared to an electric water heater in Zone 3[3]
- 2.4kW back-up element
- Durable ASA (Acrylonitrile Styrene Acrylate) high-performance, weather-resistant, and UV-stable thermoplastic top cover
- Smart interactive LED touchscreen display putting control at your fingertips
- Manufactured in Australia
- Dual Timer function available
- **Uses LOW GWP R513a refrigerant**

MODEL		571D270
Storage capacity	Litres	270
Boost capacity	Litres	195
Rated Heat Pump power input	Watts	985
Element rating	kW	2.4
Recommended electrical circuit	Amps	15
Coefficient of Performance (COP)[1]		4.5
Recommended people per household[4]		Up to 6
Noise Level (LA90) @ 1 metre[2]	dB(A)	48

HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Recovery rate* @ 45°C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance* (COP)
19°C	77	3.9	4.5

ctual COP of the product at any given time will be impacted by several factors, including the ambient and cold-water inlet temperatures, place of installation and time of day / season of operation. 2. Noise Level (LA90) of 48 dB(A)
t approved TRNSYS simulation modelling using a medium load in Zone 3 and apply when replacing a similar sized electric water heater. 4. Number of people recommended based on 7-minute shower @420C. Appliances using the hot

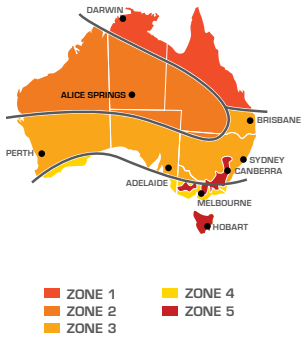
RENEWABLE HOT WATER NO MATTER IF SUNSHINE, CLOUD OR RAIN

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. May be eligible for additional incentives in some states.

This map shows the climate Zones within Australia which will define the number of STCs allocated to an approved Heat Pump water heater. The country is divided into climate zones for STC creation: 4 for solar and 5 for heat pumps.

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



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Lead Free
WMKA00153 = VE tank
WMKA00200 = SS tank
WMKA26976 = HP module

For more details and product specific information scan QR Code

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

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COMES ON STEADY, HOT AND STRONG