# The Energy Efficient Heat Pump Range




JOIN THE SMART ENERGY REVOLUTION

# AmbiPower ®
## MDc-180



Holding close to 180 litres of hot water, Rheem AmbiPower® MDc-180, offers heat pump water heating technology in New Zealand's most popular size of hot water cylinder. By changing to an AmbiPower® MDc-180, you can save almost 70% on your water heating energy costs*, making it the go to energy-efficient and sustainable alternative to standard gas and electric water heaters.

| MODEL | A551180C5 |
|---|---|
| Storage Capacity | 178 Litres |
| Operating Temperature Range | -7 to +43°C |
| Rated Heat Pump power input | 683 Watts |
| Element Rating | 2.4 kW |
| Refrigerant | R513a |
| Recommended electrical circuit | 15 Amps |
| Number of people per household | Up to 4 |
| Noise level @ 1 metre | 48 dB(A) |
| Controller info | Display + Adjustable Temperature |

| PERFORMANCE SPECIFICATIONS^ | |
|---|---|
| Ambient air temperature | 19°C |
| Recovery rate @ 45°C rise | 61 L/hr |
| Average heating capacity (kW) | 3.1 |
| COP^ | 4.9 |
| Dimensions: 1810mmH x 532mmW | |

^COP performance specifications accodring to standard AS/NZ5125
*Analysis required by Standard AS/NZS 4234:2008 is based on the TRNSYS symulation model

Warranty: 7 years cylinder, 3 years labour on cylinder, 3 years sealed system including labour, 1 year parts and labour. For full Warranty terms and conditions, please refer to www.rheem.co.nz/support/manual-and-warranties.

# AmbiPower ®
## 280e



With an ultra-low global warming potential of less than three, the Rheem AmbiPower® 280e is one of the most sustainable water heaters in our range. Amazingly, it can also save you over 70% on your water heating energy costs*. Available in two backup element configurations – 1.5kW Plug-In (plug and cord) or 2.4kW Hardwired – for greater installation flexibility, while delivering reliable hot water for larger families across New Zealand's climate zones.

| MODEL | A551E280R5 | A551E280R5 |
|---|---|---|
| Storage Capacity | 280 Litres | 280 Litres |
| Operating Temperature Range | -6 to +43°C | -6 to +43°C |
| Rated Heat Pump power input | 690 Watts | 690 Watts |
| Element Rating | 2.4 kW | 1.5 kW |
| Refrigerant | R290 | R290 |
| Recommended electrical circuit | 15 Amps | 10 Amps |
| Number of people per household | Up to 6 | Up to 6 |
| Noise level @ 1 metre | 47 dB(A) | 47 dB(A) |
| Controller info | Display Only (non-adjustable temp) | Display Only (non-adjustable temp) |

| PERFORMANCE SPECIFICATIONS^ | | |
|---|---|---|
| Ambient air temperature | 19°C | 19°C |
| Recovery rate @ 45°C rise | 56 L/hr | 56 L/hr |
| Average heating capacity (kW) | 2.9 | 2.9 |
| COP^ | 5.2 | 5.2 |
| Dimensions: 1832mmH x 696mmW | | |

Warranty: 7 years cylinder, 3 years labour on cylinder, 3 years sealed system including labour, 1 year parts and labour. For full Warranty terms and conditions, please refer to www.rheem.co.nz/support/manual-and-warranties.

# Ambiheat®
# HDc-270



Producing a whopping 77 litres of hot water per hour, the Rheem Ambiheat® HDc-270 is your choice for the ultimate in heat pump water heating technology. An interactive touchscreen LED display puts user friendly functions at your fingertips, such as a Dual Timer, Vacation Mode, and Timer Control. As with the AmbiPower® 280e, the AmbiHeat® can also save you over 70% on your water heating energy costs*.

| MODEL | A55127005 |
|---|---|
| Storage Capacity | 280 Litres |
| Operating Temperature Range | -5 to +43°C |
| Rated Heat Pump power input | 985 Watts |
| Element Rating | 2.4 kW |
| Refrigerant | R513a |
| Recommended electrical circuit | 15 Amps |
| Number of people per household | Up to 6 |
| Noise level @ 1 metre | 47 dB(A) |
| Controller info | Functional |

| PERFORMANCE SPECIFICATIONS^ | |
|---|---|
| Ambient air temperature | 19°C |
| Recovery rate @ 45°C rise | 77 L/hr |
| Average heating capacity (kW) | 4.0 |
| COP^ | 4.4 |
| Dimensions: 1825mmH x 690mmW | |

Warranty: 7 years cylinder, 3 years labour on cylinder, 3 years sealed system including labour, 1 year parts and labour. For full Warranty terms and conditions, please refer to www.rheem.co.nz/support/manual-and-warranties.

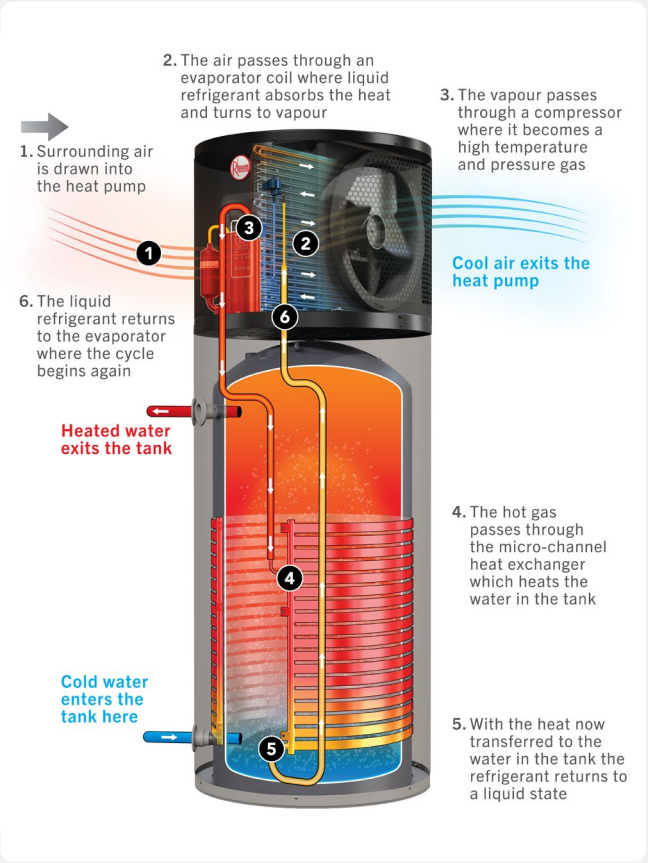
# How it Works

Rheem Heat Pump Water Heaters are a smart, energy-efficient solution for residential hot water. Instead of generating heat directly, they extract warmth from the surrounding air—using far less electricity than conventional electric water heaters.

These systems perform reliably year-round, in all weather conditions, including cooler days. That's because they don't rely on sunlight—they use ambient air, which always contains usable heat.

What sets Rheem apart is the Advanced Microchannel wrap-around heating technology. This innovative design maximises heat transfer, improves efficiency, and ensures consistent hot water delivery.

The diagram below illustrates how this technology works—giving you a clear understanding of what makes Rheem Heat Pumps a dependable and sustainable choice.




**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.

**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)**
This 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 AmbiPower 280 can heat 56 litres of water from 15°C to 60°C in one hour.




# The Future of Hot Water

Heat Pump Water Heating is providing New Zealand homeowners with a cost-efficient, sustainable alternative way to heat their water. By utilising heat from the surrounding air, heat pump water heaters need less energy to create hot water than traditional heaters that rely purely on gas or electricity.

**Why is this important news for Kiwis?**
Water heating is the third biggest energy use for NZ homes, utilising more energy on average than even personal vehicles. This means that by reducing your water heating energy consumption, you can also substantially reduce your overall household emissions, as well as your monthly energy bill.

To put this in context, the Rheem Ambipower 280e can save you over 70% of your water heating energy costs compared to traditional water heaters. Making the change to a heat pump water heater therefore provides both a tangible way for you to live more sustainably and substantially reduce your household energy costs.

The sooner we make the switch, the faster we move towards a lower-carbon, more cost-effective energy future for New Zealand.

Rheem®

Install a Rheem®

rheem.co.nz

For more info:

Get in touch with our team of experts

**0800 657 336**

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