NEW PRODUCT

Real Powerful & Efficient



The sustainable hot water solution – now with Ultra Low Global Warming Potential R290 refrigerant.

Save over 70% on your water heating energy costs^{*}

Utilises free energy from the air

Advanced microchannel heating technology

Suitable for up to 6 people



JOIN THE SMART ENERGY REVOLUTION

SPECIFICATIONS

AMBIPOWER® 280e				
MODEL			UNIT	A551E280R5
Storage capacity			Litres	280
Boost capacity			Litres	236
Rated Heat Pump power input			Watts	690
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 ³			dB(A)	47
People per household				Up to 6
Operating range ²			°C	-6 to +43
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 & 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/h	Average heati r) capacity (KW	
6°C	87%	40	2.1	3.8
19°C	66%	56	2.9	5.2
33°C	39%	69	3.6	6.6
34°C	57%	71	3.7	6.7
BACK-UP ELEMENT RECOVERY RATE @ 240 V TEMPERATURE RISE OF				
Rating (kW)				
2.4	69		52	41

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.

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 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)

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 Heat Pump can heat 56 litres of water from 15°C to 60°C in one hour.



Rheem New Zealand Limited

475 Rosebank Road, Avondale 1026, PO Box 19011, Avondale, Auckland 1746. Freephone 0800 657 336 - www.rheem.co.nz ®Registered Trademark of Rheem New Zealand Ltd. ™ Trademark of SAI Global. Materials and specifications are subject to change without notice. nent is printed on environmentally responsible paper, produced using FSC® certified 100% Post Consumer Recycled, Process Chlorine Free (PCF) pulp



690 WALL

350mm minimum distance from air inlet to wall or obstruction easured horizontally along wall

> CONDENSATE DRAIN AIR INLET

900mm minimum reco for service



For more info on the Rheem AmbiPower 280e, scan the QR code.



1000mm minimum distance fror air outlet to wall or obstruction

900mm minimum recomm

measured horizontally along wall

for service - 25 MIN

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rheem.co.nz/ambipower280

Warranty Periods:

7 years cylinder, 3 years labour on cylinder, 3 years sealed system including labour, 1 year parts and labour. Conditions apply. See the Rheem warranty set out in the Owner's Guide and Installation Instructions or view at www.rheem.co.nz/support/manual-and-warranties

*Water heating energy savings of over 70% is from the analysis required by Standard AS/NZS 4234:2008 and is based on the TRNSYS simulation model. Any savings will vary depending upon your location, type of water heater being replaced, hot water consumption and fuel tariff.

 COP performance specifications according to standard AS/NZS5125 – a COP of 5.2 was measured under test conditions with an ambient air temperature of 19°C 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 -6° 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.
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 GB/T 23137-2006 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.