NEW PRODUCT

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*

- Multiple Back-Up Element options to choose from: 2.4kW Hardwired or 1.5kW Plug-In (power cord and plug)
- 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	551E280R3P
Storage capacity	Litres	280	280
Boost capacity	Litres	236	236
Rated Heat Pump power input	Watts	690	690
Electric heating unit rating @ 240 V	Watts	2400	1500
Maximum rated power input @ 240 V	Watts	3100	2200
Recommended electrical circuit	Amps	15	10
Coefficient of Performance (@19°C)[1]	COP	5.2	5.2
Noise Level @ 1 metre[3]	dB(A)	47	47
People per household		Up to 6	Up to 6
Operating range[2]	°C	-6 to +43	-6 to +43
Dimensions & specifications			
Tank height	mm	1832	1832
Tank width	mm	696	696
Tank depth	mm	725	725
Heater weight - cartoned	kg	135	135
Heater weight - full	kg	402	402
Refrigerant		R290	R290
Maximun Refrigerant charge	gms	340	340
IP Rating		IP24	IP24
Water connections & settings			
Inlet & Outlet		Rp 3/4	Rp 3/4
Temperature Press Relief (TPR) Valve setting	kPa	1000	1000
Expansion Control Valve (ECV) setting	kPa	850	850
Maximum mains supply pressure			
With expansion control valve	kPa	680	680
Without expansion control valve	kPa	800	800

HEAT PUMP PERFORMANCE SPECIFICATIONS

Ambient air temperature	Relative humidity	Recovery rate @ 45˚C rise (L/hr)	Average heating capacity (kW)	Coefficient of Performance (COP)[1]
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)	30˚C (litres/hour)	40˚C (litres/hour)	50˚C (litres/hour)
2.4	69	52	41
1.5	44	33	26

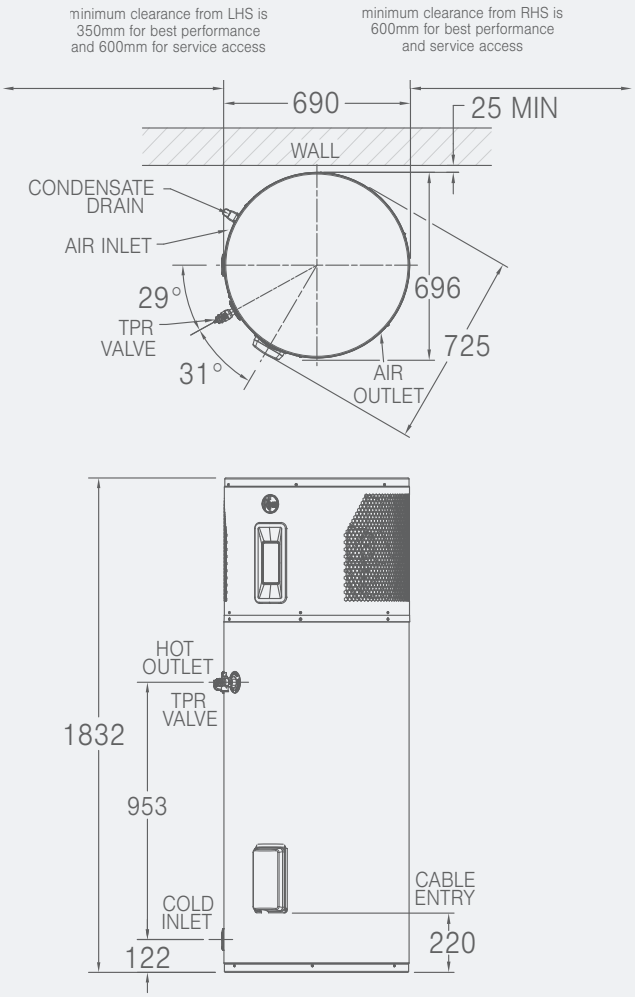
Global Warming Potential (GWP)
The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different refrigerant gases. Specifically, it measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions 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[1]
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.



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

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.
1. 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.
2. The specified -6˚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.
3. 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 23137-2008 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.

*BASED ON SPECIFIC CONDITIONS. FOR MORE INFO, SEE RHEEM.CO.NZ/AMBIPOWER280

A551E280R5

Install a Rheem®

Rheem New Zealand Limited
475 Rosebank Road, Avondale 1026, PO Box 19011, Avondale, Auckland 1746. Freephone 0800 657 336 – www.rheem.co.nz
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