



Proud members of



WATERWARE

waterware.co.nz
info@waterware.co.nz
+64 9 273 9191



HIGH TEMPERATURE HEAT PUMPS

WATERWARE

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RITTER R290 HEATPUMP

FEATURES

LEADING NEW ZEALAND IN R290 TECHNOLOGY

The world is getting warmer. We know this, and we know that it's not good for us. But here's the thing: there's something you can do about it—and it starts with your air conditioning system. Waterware, along with our suppliers has developed a new line of high temperature air-to-water heat pumps called Ritter R290. These heat pumps use R290 refrigerant, which has been recognized as an environmentally friendly refrigerant with the most development potential in the industry. And with our commitment to reducing carbon emissions, we're proud to be part of the solution!

WHAT IS R290?

R290 is refrigerant grade propane which has a Global Warming Potential (GWP) equal to 3. Compared to the current industry standards of R32 (GWP = 675) and R410A (GWP = 2088), R290 has a much lower impact on the environment.

WHY RITTER THERMAL R290?

The Ritter Thermal R290 also provides significant other feature benefits including:

- Full inverter technology
- Flow temperature up to 75°C
- Operation down to -25°C outside
- Satellite link via phone app standard
- ASA composite wrapped case won't rust
- Premium sound proofing for ultra-quiet operation

- Suitable for radiator and underfloor central heating
- Hot water production without element boosting
- Can also provide radiant and convection cooling

WHY R290?

R290 has been used in refrigerators and air conditioning for decades, but now it's making its way into air-to-water heat pumps.

R290 is the future of environmentally friendly heating and cooling technology



FEATURES



Eco Friendly

Developed with the most cutting-edge heat pump technology and modern design to meet stringent requirements for efficiency, stability and quietness.



Capabilities

The versatility and technology of the R290 heatpump means it can power all of Waterware's solutions, which include Radiant surface technologies, radiators & hot water production.



Low running costs

Although the initial costs can be higher, after a few years, most people experience a substantial decrease in their heating bills.



Ritter R290 Thermal is the perfect solution if you are switching from gas or diesel to electric.

RADIATOR READY

The Ritter R290 Thermal is optimized for radiator & hot water applications, which makes it ideal if your thinking about moving away from gas or diesel to electric.

Along with low running costs, you will have a reliable and robust solution for heating your home.



High Efficiency Hot Water

HOT WATER PRODUCTION

When you're looking for a reliable hot water system, look no further. Our system can provide all the hot water required for the sanitary needs of your house or building using the heat pump as the primary source of energy without the need for electric backup.

Specifications

Ritter Thermal R290 Heatpump		HPR6HT	HPR10HT	HPR17HT
Power Supply		230V~	230V~	230V~
Heating Condition -Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 30/35°C				
Heating Capacity Range	kW	3.10-8.90	5.40-14.95	8.00-22.00
Heating Power Input Range	kW	0.65-2.10	1.05-3.85	1.60-6.90
Heating Current Input Range	A	2.9-9.2	4.6-16.9	7.0-30.3
Cooling Condition -Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 12/7°C				
Cooling Capacity Range	kW	1.20-5.72	3.60-10.50	4.20-15.00
Cooling Power Input Range	kW	0.65-2.40	1.12-4.47	1.80-7.30
Heating Current Input Range	A	2.9-10.5	4.9-19.6	7.9-32.1
Hot Water Condition -Ambient Temp. (DB/WB): 20/15°C, Water Temp. (In/Out): 15/55°C				
Hot Water Capacity Range	kW	3.92-10.68	6.50-18.50	10.00-27.00
Hot Water Power Input Range	kW	0.78-2.47	1.27-4.65	1.90-7.10
Hot Water Current Input Range	A	3.4-10.8	5.6-20.4	8.3-31.2
Max. Power Input	kW	3.0	5.3	7.5
Max. Current Input	A	13.5	24.5	32
COP		COP 35-30°C @ 7°C: 4.49	COP 35-30°C @ 7°C: 4.53	COP 35-30°C @ 7°C: 4.37
Water Flow	m3/h	1.0	1.7	2.9
Refrigerant/ Charge weight	kg	R290 /0.50kg	R290 / 0.85kg	R290 / 1.30kg
CO2 Equivalent	Ton	0.002	0.003	0.004
Sound Pressure (1m)	dB(A)	42	43	47
Sound Power Level EN121021	dB(A)	57	57	62
Operating Ambient Temperature	°C	-25-43		
Max. Water Temperature	°C	75		
Water Pressure Drop (max)	kPa	20	20	65
Circulation Pump Water Head	m	7.5	7.5	12.5
ErP Level(35°C)		A+++		
Unit Dimension(L/W/H)	mm	1167 X 407 X 795	1287 X 458 X 928	1250 X 540 X 1330
Dry Weights	KG	80	160	202