RITTER HOTWATER 5KW

R290 ECO Friendly

RITTER

Plumbing
Solutions

High temperature R290 hot water heat pump

Powered by WATERWARE

RITTER HOT WATER DIRECT R290
PRODUCT DESCRIPTION

Introducing the latest generation high temperature hot water heat pumps for direct connection to new or existing hot water cylinders.* Enjoy the power of rapid hot water recovery while consuming less than half of the electricity of an electric element. This new unit comes complete with everything you need on board and heats the potable water directly so can be quickly and easily installed by any qualified plumber. Being a split heat pump, this allows the unit to deliver superior levels of hot water production and higher efficiency than all-in-one heat pump cylinders, while also allowing the HWC to be placed inside the house for lower standing losses and less damage from rain and UV, or in a more convenient location relative to the hot water outlets.

The Ritter direct hot water inverter utilises the latest R290 refrigerant technology which delivers industry leading performance even in New Zealand's coldest conditions, and with a Global Warming Potential of only 3 it will have an extremely low effect on the environment long term. With a flow temperature of up to 70°C the Ritter R290 can bring a hot water cylinder up to legal storage temperature without any boosting by an electrical element. Wireless control via phone app is included as standard allowing the homeowner to remotely adjust and monitor the unit from anywhere.** All this is wrapped up in a premium metal case with louvered grills means it will compliment the aesthetic of any home.

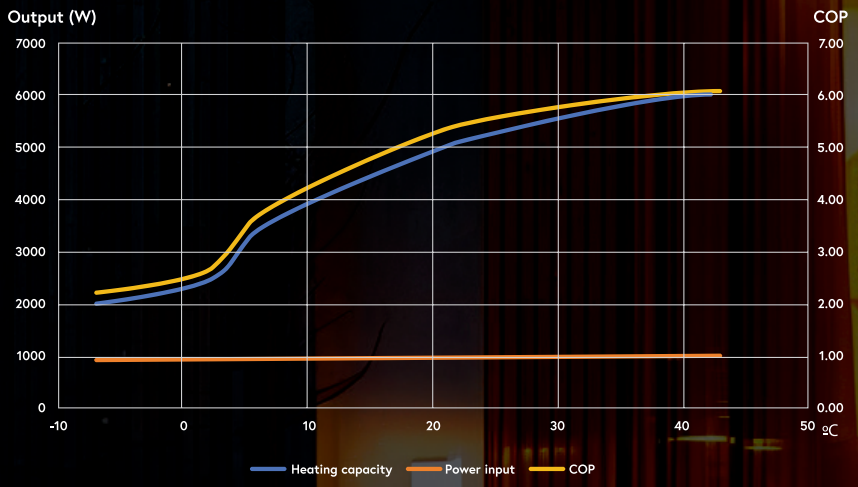
* Suitable cylinder configurations are shown on the back page of this brochure.

** Requires Wi-Fi signal at the controller location, and the Smart Life app.

FEATURES

- Latest R290 refrigerant technology for low environment impact (GWP = 3).
- Direct connection to any suitable domestic mains pressure hot water cylinder.
- Up to 6.4kW of heating power or 138 litres per hour of hot water production.
- Inverter technology adjusts power to match demand and conditions.
- Flow temperature of up to 70°C, operation down to -15°C outside.
- HWC temperature probe included and pre-wired on a 3m cable.
- LED controller with Wi-Fi app control included as standard.
- Stylish metal case with a high-quality powder coated finish.
- Electric boosting element in the HWC not required.
- Premium dual wall plate exchanger for superior safety and efficiency.
- Quiet operation with a maximum SPL = 50dB(A).

COP: Efficiency of over 500% possible (Max COP5.25 @ A20/15 W15-55)



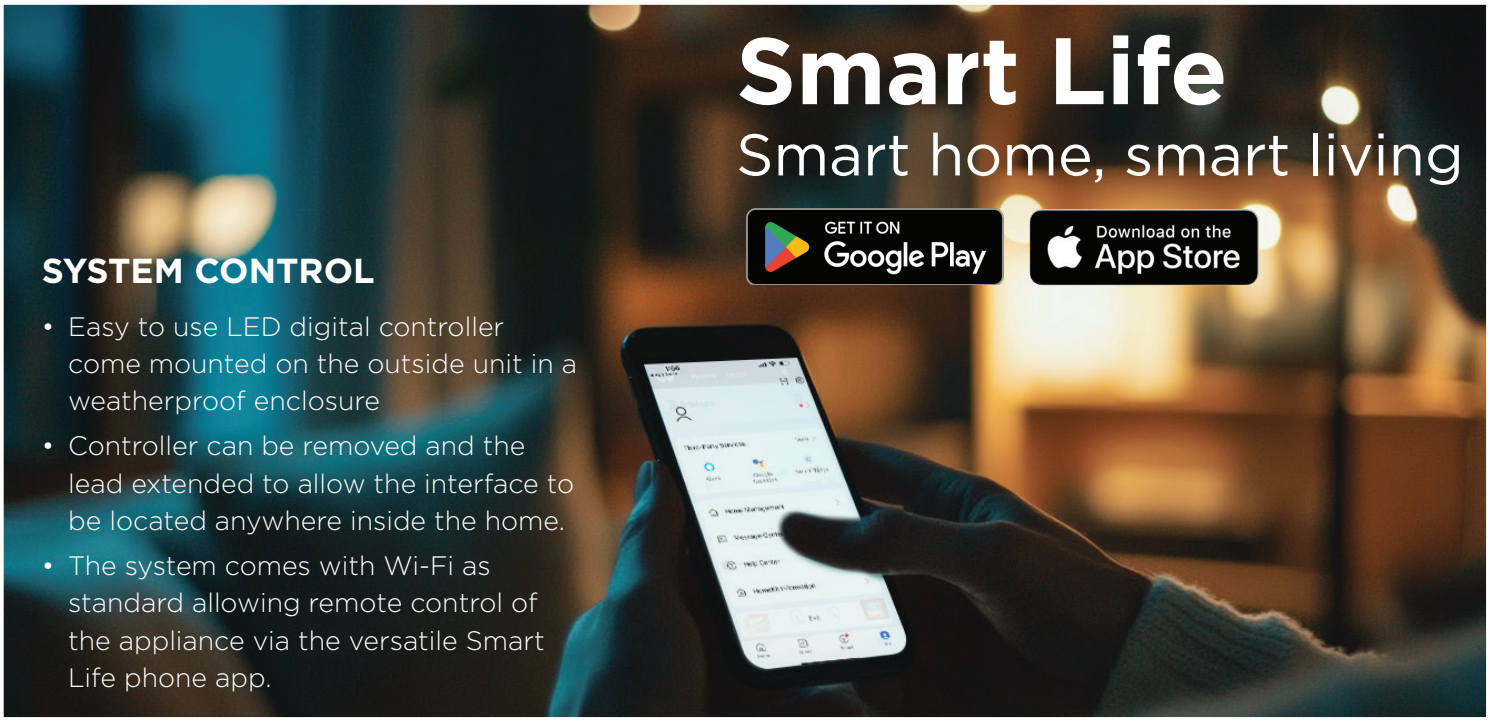
APPLICATIONS

- Residential houses and apartments
- Light commercial (e.g. salons, bars and restaurants)
- Light industrial (e.g. preheating of wash down water on farms)

ENVIRONMENTAL IMPACT

- **Due to higher efficiency and power output, plus no boosting element, this unit consumes less electricity than all-in-one heatpump cylinders**

R290 GWP = 3, compared to R134A = 1430 and R32 = 675.



SPECIFICATIONS

R290 RITTER HOTWATER		
Model		HPRPD5
Power Supply		220~240V~/1/50Hz
Product Technical data		
A20/15° W15-55°		
Heating Capacity	W	4900 (3200~6400)
Rated Hot Water Production	L/h	105 (68.8~137.6)
Rated Power Input	W	933 (673~1422)
Rated Current Input	A	4.1 (3~6.3)
COP	W/W	5.25 (4.5~5.3)
A20/15° W15-60°		
Heating Capacity	W	4850 (3100~6300)
Rated Hot Water Production	L/h	92.7 (59.2~120)
Rated Power Input	W	990 (712~1518)
Rated Current Input	A	4.39 (3.16~6.7)
COP	W/W	4.89 (4.15~4.95)
Power Input Max.	W	2100
Current Input Max.	A	9.32
Refrigerant Type/Charge/GWP		R290/0.45kg/3
CO_2 Equivalent		0.00135t
Working Ambient temperature	°C	-15°C to +43°C
IP Class		IPX4
Water Piping Connections	Inch	3/4
Unit Dimensions (W/H/D)	mm	985*580*420
Noise	dB(A)	50
Net Weight	kg	64

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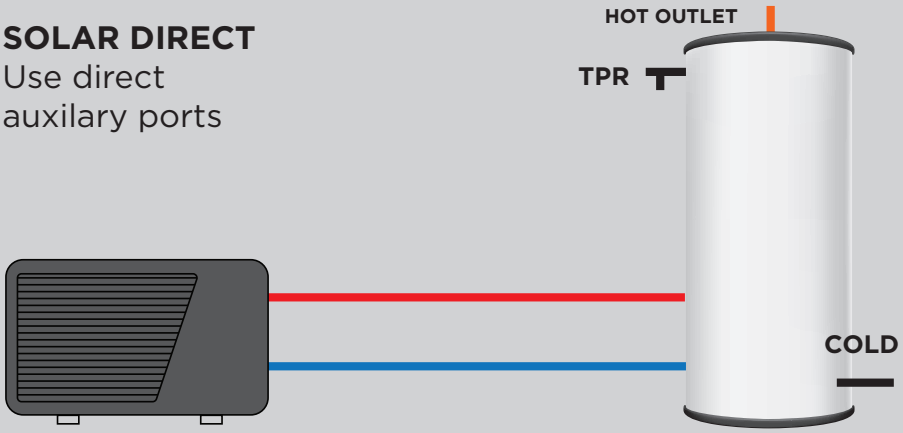
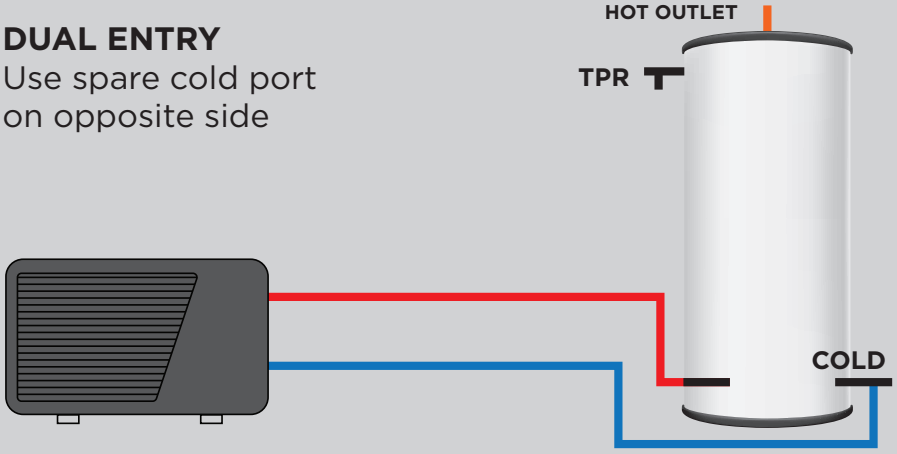
CONNECT TO EXISTING OR NEW CYLINDERS

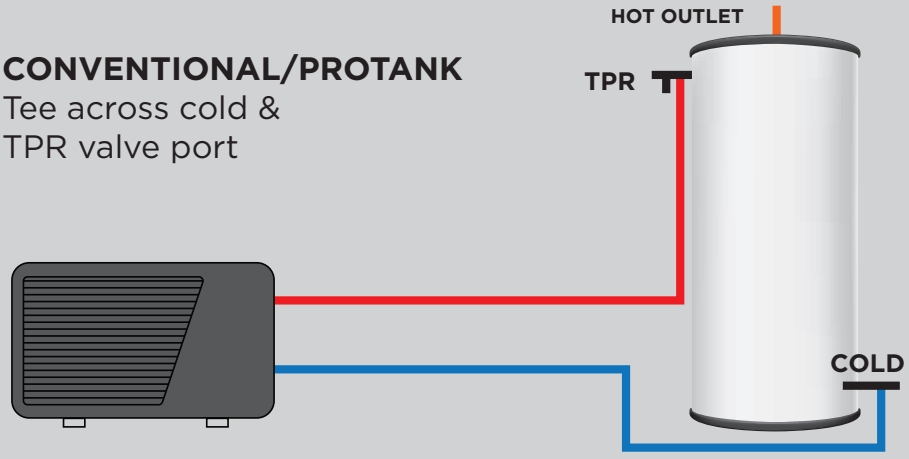
SOLAR DIRECT
Use direct
auxilary ports



DUAL ENTRY
Use spare cold port
on opposite side



CONVENTIONAL/PROTANK
Tee across cold &
TPR valve port



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