

## Innovation by STIEBEL ELTRON:

Harvest natural energy,  
reduce energy costs and  
create environmentally friendly  
hot water all year round

WWK 222 (H) & WWK 302 (H) – Hot Water Heat Pumps



- › Engineered by Germany's market leader
- › Designed for Australian conditions
- › Financial support from Government rebates
- › Thermal energy system utilises heat in the air to efficiently create hot water
- › Very high average COP of 3.94
- › Ideal to operate with solar PV
- › Compact design for ease of installation
- › Current impressed anode for use with hard or soft water
- › Active defrost function maintains operation in cold climates down to  $-5^{\circ}\text{C}$
- › Quiet operation due to encased compressor

**STIEBEL ELTRON**

# THE EXPERT IN HEAT PUMP TECHNOLOGY SINCE 1976

# STIEBEL ELTRON

As early as 1976 Stiebel Eltron began developing heat pump technology for energy efficient hot water. This hot water heat pump technology has been tried and tested in Germany for over 40 years to ensure consumers receive real energy, environmental and money savings. Stiebel Eltron's heat pumps provide energy efficient hot water all year round due to their sophisticated design.

With Stiebel's heat pumps, hot water energy use can be reduced by up to 74% compared to conventional electric hot water systems in Australia. Water heating systems are the biggest domestic consumers of electricity, and installing a heat pump can quickly reduce your energy consumption while also providing efficient hot water.

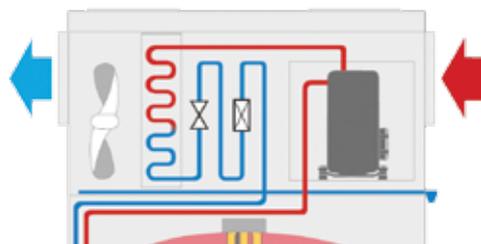
Benefit from the technological expertise of Germany's market leader:

- › German engineered, designed for diverse Australian conditions
- › 17% lower heat loss due to improved tank insulation<sup>1</sup>
- › Unique roll-bond condenser technology for optimal heat transfer
- › Maintenance free current impressed anode – suitable for hard or soft water areas
- › Operates down to minus 5°C, ideal for colder climates
- › Ideal to operate with solar PV as an energy source<sup>2</sup>
- › 220 litre tank with high delivery of hot water – can deliver 360 litres of 40°C shower temperature water<sup>3</sup> (300 litre tank delivers 510 litres)



## A SIMPLE DESIGN TO CREATE HOT WATER

1. A fan draws air through an evaporator. Thermal energy within the air is transferred to a liquid refrigerant causing it to change into a vapor.
2. The refrigerant vapor is then drawn into a compressor which increases the pressure and, as a result, increases the temperature.
3. A condenser (heat exchanger) then transports the refrigerant around the outside of the water tank. This heats the water inside the tank and the gaseous refrigerant reverts back into a liquid.
4. The pressure of the refrigerant is reduced as it goes through an expansion valve and returns to the evaporator for the process to start all over again.





*“Saving energy and lowering my running costs for hot water is important. With a heat pump from STIEBEL ELTRON I enjoy the benefits of energy efficient hot water – even when the sun isn’t shining”*

## BENEFITS FROM GOVERNMENT REBATES

Rebates and financial incentives are offered Australia-wide at a Federal and State level depending on the type of water heater that is being replaced and what type of new system is being installed.

### STCs per zone across Australia

MODEL	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
WWK 222 & WWK 222 H	25	26	29	31	31
WWK 302	24	25	28	31	30
WWK 302 H	24	25	28	30	30

The table above outlines the number of STCs<sup>4</sup> eligible in each of the five zones across Australia for STIEBEL ELTRON’s heat pumps.

Additional rebates may be available from State Governments or through your local council.



## TECHNICAL DATA

Model number	WWK 222 (H)	WWK 302 (H)
Power consumption at (EN16147 / A15)	0.55 kW	0.55 kW
Power consumption smart element <sup>5</sup>	1.7 kW <sup>5</sup>	1.7 kW <sup>5</sup>
Rated voltage and current	240 V / 10 Amp	240 V / 10 Amp
Cylinder capacity	220 Litres	302 Litres
Permissible operating pressure (cold water inlet)	800 kPa	800 kPa
Seasonal Coefficient of performance (COP)	3.94	3.58
Application range	-5°C – 42°C	-5°C – 42°C
Refrigerant and capacity	R134a / 0.85 kg	R134a / 0.85 kg
Height	1553 – 1569 mm	1921 – 1937 mm
Diameter	690 mm	690 mm
Weight (empty + filled with water)	120 kg / 340 kg	135 kg / 437 kg
Approvals	WaterMark Lic No. WMKA00301, AS3498	

<sup>1</sup> Compared to previous hot water heat pump WWK 300A

<sup>2</sup> Dependent on installed PV-system

<sup>3</sup> At a cold water temperature of 20°C

<sup>4</sup> Correct at time of printing

<sup>5</sup> Applies to H-model including a heating element

The logo for Stiebel Eltron, featuring the company name in a bold, black, sans-serif font. The text is underlined with a thin red line. The logo is positioned in the upper left corner of the page, set against a white rectangular background that partially overlaps a larger image of green leaves and a grey wall.

**STIEBEL ELTRON**

Stiebel Eltron (Aust) Pty Ltd  
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