

# Reduce energy costs and create environmentally friendly hot water all year round

- › Intelligent German engineering that uses air as an energy source for generating hot water for the entire household



# STIEBEL ELTRON is full of energy

We take ideas and turn them into innovations that move markets. As a company driven by engineering expertise, we aim to deliver results and turn our excellent products into groundbreaking system solutions – because we want to be actively engaged in shaping the future.

Our products have long been distinguished by excellent reliability, high quality and a long service life.

We have been developing highly efficient electrical appliances since 1924. In our business, we rely on our 3,100 employees and their expertise at every stage of development – from the initial design phase through to the manufacturing of the final product. The result is a portfolio of over 2,000 products in the fields of hot water systems, renewables, ventilation, air conditioning, room heating and water filtration. Thanks to smart combinations, we are able to offer more than 30,000 system solutions that can help you equip your home for the future.

The same enthusiasm that led us to develop our present product range, drives us on to seek sustainable solutions for the future. STIEBEL ELTRON has convenient and efficient solutions for today – and tomorrow!

Since 2015 at our head office in Holzminden, Germany, we have been running the Energy Campus – a flagship project for sustainable construction that makes careful use of resources. This training and communication centre brings together high quality architecture and communication technology, and as an energy positive building, it generates more energy than it consumes. This is in keeping with our brand promise “Full of Energy” and creates a space where the spirit of STIEBEL ELTRON can be experienced both in theory and practice.



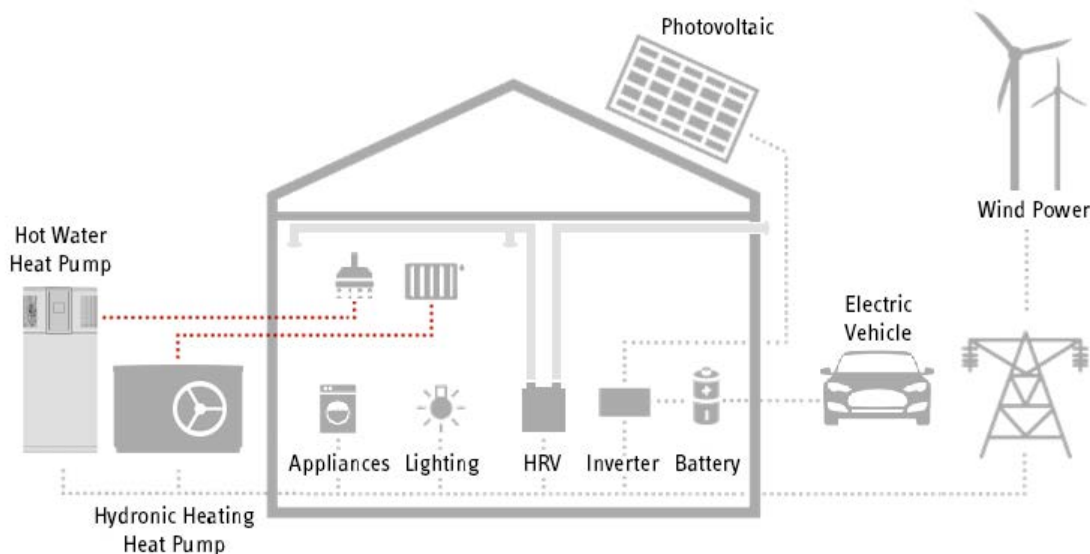
# Electricity – the energy source of the future

Renewable energies will become the norm for the future of energy supply as more and more people recognise the benefits of green and self-generated power from renewable sources.

## The goal of the energy transition is independence from fossil fuels

Fossil fuels are in decline on the global electricity market, being too harmful to the environment and becoming ever more scarce. Nowadays, alternative energies using the sun, wind and water are being used to generate green power.

So it is logical to act in good time to convert the largest energy consumer in your home – the heating system – to these futureproof forms of energy. As approximately 62 % of energy consumed in Australian homes is used for heating, cooling and hot water, this makes perfect sense. So there is plenty of scope for implementing the energy transition in your own home.



## PROJECT ENERGY

### Recognising signs of the times

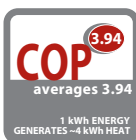
At STIEBEL ELTRON, we accept our share of responsibility and this is why we have launched the initiative for the House of the Future: Project Energy. After all, we have been a pioneer in this sector for more than 90 years. We know that energy efficient, integrated and long-lasting solutions are required. Now is the time for safe, straightforward and responsible technology that we can pass on to future generations.



# WWK

## CREATE ENERGY EFFICIENT HOT WATER WITH A HEAT PUMP

Where domestic hot water heating from renewable sources is concerned, STIEBEL ELTRON's domestic hot water heat pumps offer a convenient solution.

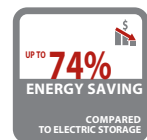


“Saving energy and lowering my running costs for hot water is important. With a heat pump from STIEBEL ELTRON, I enjoy the benefits of energy efficient hot water – even when the sun isn’t shining”

# Easy and inexpensive heat out of thin air

STIEBEL ELTRON's premium quality hot water heat pumps use free natural energy from the air to create hot water. They provide an energy-efficient, environmentally responsible solution for year-round generation of hot water using minimal energy.

up to 74% savings  
compared to an electric storage tank



Hot Water Heat Pump

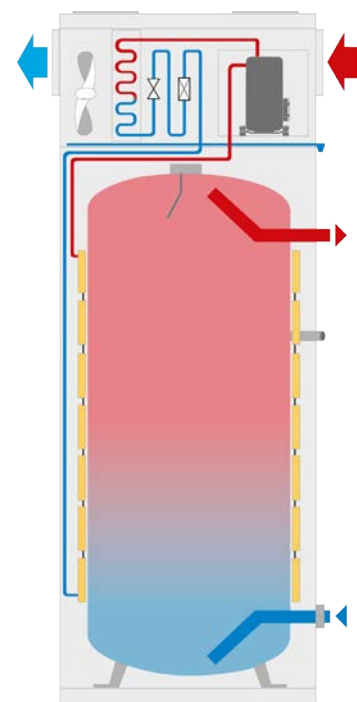
## EXCELLENT ENERGY EFFICIENCY

Our hot water heat pumps fit into the highest energy efficiency class.



### State-of-the-art 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 gas.
2. The refrigerant gas is then drawn into a compressor which increases the pressure and, as a result, increases the temperature.
3. A condenser (heat exchanger) then transports gaseous refrigerant around the outside of the water cylinder. This heats the water inside 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.



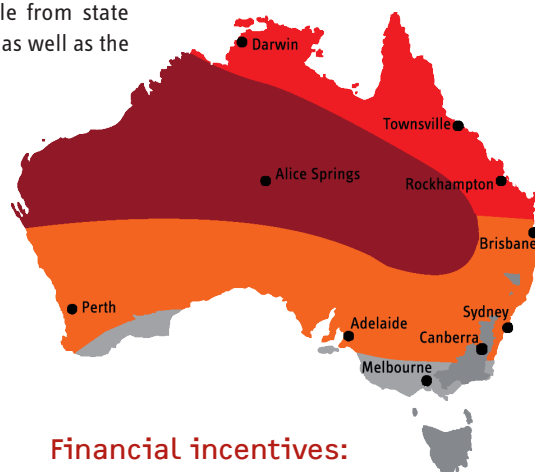
# Government incentives for small-scale renewable energy systems

Rebates and financial incentives are offered Australia-wide at a federal and state level for using water heaters which are powered by renewable energy. Additional rebates may be available from state governments or local councils, depending on the type of water heater that is being replaced as well as the new system being installed.

## FIVE STC ZONES IN AUSTRALIA

Model	STCs per zone across Australia				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
WWK 222	25	26	29	31	31
WWK 222H	25	26	29	31	31
WWK 302	24	25	28	31	30
WWK 302H	24	25	28	30	30

The table above outlines the number of small-scale technology certificates (STCs) eligible in each of the five zones across Australia for STIEBEL ELTRON's hot water heat pumps. At time of printing, each STC is valued approximately \$30, adding up to an incentive of up to \$930.



Financial incentives:  
 $\$30^* \times 31 \text{ STCs}$   
**= \$930**

## 10 Year Cost and Savings Comparison: WWK 302 vs. Electric Storage

### HEAT PUMP SAVINGS AFTER 10 YEARS

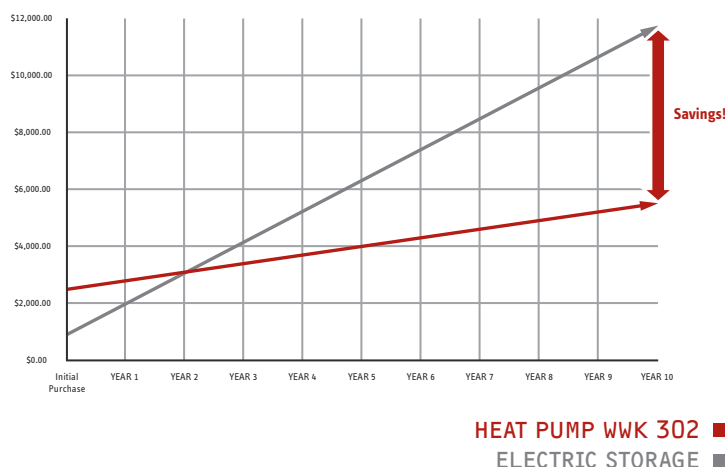
- › Operational Savings: \$7,808
- › Net Savings: \$6,262

### DAILY ENERGY CONSUMPTION

- › HP Electrical Load: 3.23 kWh
- › ESU Electrical Load: 11.45 kWh
- › Daily Energy Savings with HP: 8.23 kWh

### ESTIMATED RECOVERY OF INVESTMENT

- › 1 Year 11 Months 24 Days



The estimated cost and payback period for a WWK 302 heat pump compared to a conventional electric storage water heater is provided as a guide only, based on an installation in NSW, STC zone 3, demand tariff: 0.26 \$/kWh. It should not be relied on exclusively for your hot water system selection. Your personal requirements may be different to the assumptions used. Fixed charges, system access charges, delivery fees and any other charges, discounts or special rates have not been taken into account. Please consult with your energy provider and hot water specialist for further information. STCs are a tradeable commodity with a fluctuating price. Please refer to a STC trader for current pricing.

\*1 STC valued at approx. \$30 at time of printing. For further details, please call 1800 153 351.

# WWK

## FIRST-CLASS HOT WATER CONVENIENCE FROM RIGHT OUTSIDE

The WWK 222 (H) and the WWK 302 (H) are compact domestic hot water heat pumps designed specifically for outdoor installation in Australia to supply domestic hot water to several draw-off points. Our heat pumps utilise the energy in the air to create environmentally friendly hot water all year round.

### Future-proof investment

The high quality materials include a maintenance-free impressed current anode, ensuring a long service life in hard and soft water areas. The built-in contact enables the integration of a photovoltaic system to utilise solar power generated on site and store thermal energy.



WWK 302 H



### Benefits of the WWK

- › Engineered by Germany's market leader
- › Specifically designed for Australian conditions
- › Active defrost function ensures energy-efficient operation in cold climates down to  $-5^{\circ}\text{C}$
- › Ideal storage of energy generated by solar PV systems\*
- › High operational reliability and long service life due to impressed current anode
- › Eligible for generous government rebates
- › Quiet operation due to encased compressor
- › Can be installed indoors with a clear space of  $13\text{ m}^3$
- › H-models come with 1.7 kW smart element

		PREMIUM			
Model		WWK 222	WWK 222 H	WWK 302	WWK 302 H
		231209	233209	231211	232905
Power consumption (EN16147   A15)	kW	0.55	0.55	0.55	0.55
Power consumption smart element	kW	N/A	1.7	N/A	1.7
Rated voltage	V	240	240	240	240
Rated current	Amp	10	10	10	10
Rated capacity	l	220	220	302	302
Max. HW temperature with heat pump	$^{\circ}\text{C}$	65	65	65	65
Set HW temperature	$^{\circ}\text{C}$	61	61	61	61
Maximum available nominal amount of hot water at $40^{\circ}\text{C}$	l	360	360	540	540
Heat source min./max. application limits	$^{\circ}\text{C}$	$-5/+42$	$-5/+42$	$-5/+42$	$-5/+42$
Refrigerant		R134a	R134a	R134a	R134a
Refrigerant capacity	kg	0.85	0.85	0.85	0.85
COP (seasonal average COP for AU)		3.94	3.94	3.58	3.58
Height	mm	1553-1569	1553-1569	1921-1937	1921-1937
Diameter	mm	690	690	690	690
Weight (empty   filled)	kg	120   340	120   340	135   437	135   437

\*Selected inverter required. Check installation manual for details or call 1800 153 351.

Note: Installation requirements as per AS/NZS3000 and AS/NZS3500.4.2 as well as local requirements.

Your local trade partner:

Have we sparked your interest? For further information visit [www.stiebel.com.au](http://www.stiebel.com.au) or call our service team on 1800 153 351.



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