


# Harnessed from the air Used for hot water

Producing hot water using energy from the air



A man and a woman are embracing on a balcony. The man is wearing a pink t-shirt and has his arms around the woman. The woman is wearing a white robe and has her eyes closed, smiling. They are standing in front of a large window that looks out onto a green landscape. The balcony has a white railing. The scene is brightly lit, suggesting it is daytime.

There's so much warmth in our house – including in places where we don't really need it. So it's great that our DHW heat pump can use this energy to heat up cold water. Not only is that economical, but also good for the environment.

Comfort through technology

# Giving the future a green light

Renewables help to determine where our energy will come from in the future. More and more people are recognising the benefits of green electricity for their homes. We too see electricity as the energy source of the future.

## Turning the tide ourselves

Power companies, politicians and society have been seeking viable alternatives to fossil fuels for a long time. Fossil fuels are exhaustible resources that pollute the environment. So why not simply tap into the heat contained in the sun, air, water and ground, and put it to use in your home?

You are bound to have some concerns about the energy efficiency of your house. Perhaps you would like to change to a futureproof energy supply. The largest energy consumer is your heating system: almost 80 % of the energy you consume goes into heating and hot water. There is therefore great potential for an energy transition in your home.



# Make the best choice for all your plans

Treat yourself to moments of relaxation. That's best achieved with hot water, which our appliances can produce without wasting resources. STIEBEL ELTRON DHW heat pumps draw most of the energy they need from the ambient air, which contains a great deal of heat – heat that is normally wasted. Our heat pumps use this free ambient energy, along with their integral water cylinder, to ensure that you can enjoy plenty of relaxing moments all year round.

## DHW heat pumps



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<b>Model</b>	<b>SHP-F 220 Premium</b>	<b>SHP-F 300 Premium</b>	<b>SHP-F 300 X Premium</b>
Energy efficiency (load profile)	A+ (L)	A+ (L)	A+ (XL)
Cylinder capacity	220 l	302 l	291 l
Indoor installation   outdoor installation	■   -	■   -	■   -
Min./max. application limit	-8 °C/+35 °C	-8 °C/+35 °C	-8 °C/+35 °C
Max. temperature in heat pump-only mode	+65 °C	+65 °C	+65 °C
Max. mixed water volume	330 l	465 l	440 l
Connection of second heat generator (e.g. boiler)			■
Photovoltaic compatibility			
- via switching contact <sup>1)</sup>	■	■	■
- via energy management system <sup>2)</sup>	■	■	■
Digital control with LCD	■	■	■
Air duct operation possible	■	■	■
Recirculation/outdoor air mode	■   ■	■   ■	■   ■
Product class	Premium	Premium	Premium

<sup>1)</sup> Suitable inverter required. <sup>2)</sup> Suitable energy management system required. Energy efficiency class in accordance with EU Regulation no. 812/2013.



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**SHP-A 220 Plus**

A+ (L)

220 l

■|-

+6 °C/+42 °C

+65 °C

330 l

■

■

■

■|-

Plus



Page 08

**SHP-A 300 Plus**

A+ (XL)

302 l

■|-

+6 °C/+42 °C

+65 °C

465 l

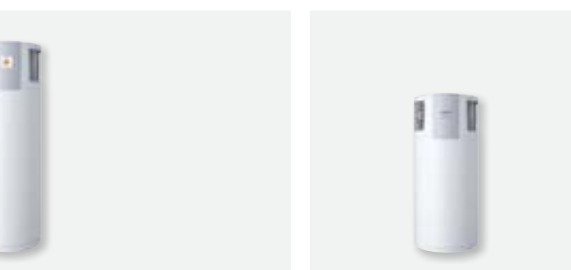
■

■

■

■|-

Plus



Page 08

**SHP-A 300 X Plus**

A+ (XL)

291 l

■|-

+6 °C/+42 °C

+65 °C

440 l

■

■

■

■

■|-

Plus



Page 10

**WWK 222 (H)**

A+ (XL)

220 l

-|■

-5 °C/+40 °C

+65 °C

330 l

■

■

■

■|■

Premium



Page 10

**WWK 302 (H)**

A+ (XL)

302 l

-|■

-5 °C/+42 °C

+65 °C

460 l

■

■

■

■|■

Premium





# Keeping your plans flexible

SHP-F 220/300 (X) Premium DHW heat pump

The flexibility you enjoy with a DHW heat pump is well demonstrated in this model. It is equipped with air ducts which allow it to draw outdoor air or waste heat from an adjacent room. Moreover, your installer can arrange the ducts horizontally or vertically, depending on the layout of the installation room.

## A futureproof investment

The appliance is also well equipped on the inside: it achieves the highest possible energy efficiency class (A+) and provides you with hygienic DHW temperatures of up to 65 °C. A straightforward combination of heat pump and photovoltaic system<sup>1)</sup> makes even more efficient use of natural resources, as it allows you to heat your hot water with self-generated electricity. For feel-good moments that are truly home-made.

## Top product features

- › High flexibility in siting and installation
- › Achieves the highest possible energy efficiency class in this product group (A+)
- › Hygienic DHW temperatures up to 65 °C possible in efficient heat pump mode
- › Can be integrated into a smart grid (SG Ready)
- › Maximum reliability and cost savings due to maintenance-free cylinder protection (impressed current anode)

<sup>1)</sup>Compatible inverter required. Energy efficiency class in accordance with EU Regulation no. 812/2013.

# Become more self-sufficient at home

SHP-A 220/300 (X) Plus DHW heat pump

Self-sufficiency in your own home is an important factor. You can take a big step in the right direction with this DHW heat pump. Not only does it use renewable sources for DHW heating, but with its superbly insulated cylinder, it also achieves excellent output values. For you, that means hot water for a bath or shower whenever you need it – with low energy consumption.

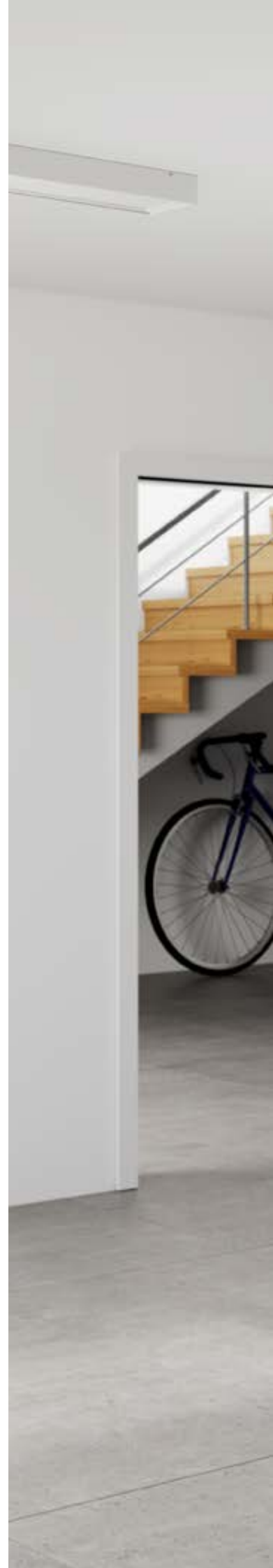
## Easy to operate and connect

A user friendly LCD screen helps you operate the appliance. It shows you at a glance how much mixed water is currently available. Would you like to connect your heat pump to your photovoltaic system<sup>1)</sup>? Nothing could be simpler. The appliance comes with this option as standard, allowing you to make clever use of energy from the sun as well as the air.

## Top product features

- › Achieves the highest possible energy efficiency class in this product group (A+)
- › Hygienic DHW temperatures up to 65 °C possible in efficient heat pump mode alone
- › Can be integrated into a smart grid (SG Ready)
- › Maximum reliability and cost savings due to maintenance-free cylinder protection (impressed current anode)

<sup>1)</sup> Compatible inverter required. Energy efficiency class in accordance with EU Regulation no. 812/2013.









# Choose a powerful partner for your hot water

WWK 222/302 (H) DHW heat pump

Robust and especially powerful – these are the defining features of this air source heat pump. The compact appliance with stove-enamelled metal casing is specially designed for installation in your garden. From there, it will supply several draw-off points in your home with pleasant hot water, and ensure reliable operation and a long service life as well.

#### Top product features

- › Very robust as specifically designed for outdoor installation
- › Suitable for ambient temperatures down to -5 °C
- › Maximum reliability and cost savings due to maintenance-free cylinder protection (impressed current anode)

#### Link up to self-generated electricity

If you use your heat pump in recirculation air mode, it can also be installed indoors. Wherever you site the appliance, it can do more: do you generate your own solar power<sup>1)</sup>? Then make use of that for your DHW heating. The heat pump can be easily linked up to a photovoltaic system<sup>1)</sup>.

<sup>1)</sup>Compatible inverter required.

## DHW heat pump product comparison

Model		SHP-F 220 Premium	SHP-F 300 Premium	SHP-F 300 X Premium
<b>Product number</b>		<b>238630</b>	<b>238631</b>	<b>238632</b>
DHW heating energy efficiency class (load profile), indoor air		A+ (L)	A+ (XL)	A+ (XL)
Energy efficiency class for DHW heating (load profile), outdoor air		A+ (L)	A+ (XL)	A+ (XL)
Rated capacity	l	220	302	291
Maximum DHW temperature with heat pump	°C	65	65	65
Max. mixed water volume 40°C	l	330	465	440
Average heating output (A15/W10-55)	kW	1.6	1.6	1.6
Average heating output (A7/W10-55)	kW	1.3	1.3	1.3
Heat source min./max. application limits	°C	-8/+42	-8/+42	-8/+42
Nominal DHW temperature (EN 16147)	°C	55	55	55
Nominal load profile (EN16147)		L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	l	284	422	399
COP (EN 16147 / A20)		3.28	3.75	3.75
COP (EN 16147 / A7)		3.07	3.22	2.99
Sound power level, indoor, with 4 m air duct (EN 12102)	dB(A)	52	52	52
Average indoor sound pressure level at 1 m distance, free field with 4 m air duct	dB(A)	37	37	37
Height x diameter	mm	1501 x 690	1905 x 690	1905 x 690
Product class Premium/Plus/Trend		■/-/-	■/-/-	■/-/-

Model		SHP-A 220 Plus	SHP-A 300 Plus	SHP-A 300 X Plus
<b>Product number</b>		<b>238633</b>	<b>238634</b>	<b>238635</b>
DHW heating energy efficiency class (load profile), indoor air		A+ (L)	A+ (XL)	A+ (XL)
Rated capacity	l	220	302	291
Maximum DHW temperature with heat pump	°C	65	65	65
Max. mixed water volume 40°C	l	330	465	440
Average heating output (A15/W10-55)	kW	1.6	1.6	1.6
Average heating output (A7/W10-55)	kW	1.3	1.3	1.3
Heat source min./max. application limits	°C	+6/+42	+6/+42	+6/+42
Nominal DHW temperature (EN 16147)	°C	55	55	55
Nominal load profile (EN16147)		L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	l	278	395	371
COP (EN 16147 / A20)		3.55	3.51	3.51
COP (EN 16147 / A7)		2.68	2.79	2.75
Sound power level (EN 12102)	dB(A)	60	60	60
Average sound pressure level at 1 m distance, free field	dB(A)	45	45	45
Height x diameter	mm	1501 x 690	1905 x 690	1905 x 690
Product class Premium/Plus/Trend		-/■/-	-/■/-	-/■/-



## DHW heat pump product comparison

Model		WWK 222	WWK 222 H	WWK 302	WWK 302 H
<b>Product number</b>		<b>231209</b>	<b>233209</b>	<b>231211</b>	<b>232905</b>
DHW heating energy efficiency class (load profile), indoor air		A+ (L)	A+ (L)	A (XL)	A (XL)
Rated capacity	l	220	220	302	302
Temperature setting range, DHW	°C	61-65	61-65	61-65	61-65
Maximum DHW temperature with heat pump	°C	65	65	65	65
Max. mixed water volume 40°C	l	335	335	475	475
Average heating output (A15/W10-55)	kW	1.6	1.6	1.6	1.6
Average heating output (A7/W10-55)	kW	1.2	1.2	1.2	1.2
Heat source min./max. application limits	°C	-5/+42	-5/+42	-5/+42	-5/+42
Nominal DHW temperature (EN 16147)	°C	61	61	61	61
Nominal load profile (EN16147)		L	L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	l	322	322	457	457
COP (EN 16147 / A20)		2.92	2.92	2.91	2.91
Sound power level (EN 12102)	dB(A)	60	60	60	60
Average sound pressure level at 1 m distance, free field	dB(A)	45	45	45	45
Height x diameter	mm	1501 x 690	1501 x 690	1905 x 690	1905 x 690
Product class Premium/Plus/Trend		-/■/-	-/■/-	-/■/-	-/■/-



# Recharge your energy with ours

We need energy to live. As a family business, we endeavour to ensure that energy will still be available in tomorrow's world. That is why we advocate environmentally responsible and efficient building services that safeguard investment. We act for the future – yours and ours.

Since 1924, STIEBEL ELTRON has been synonymous with reliable solutions for domestic hot water, heating, ventilation and cooling. We maintain a clear focus in the energy debate: electricity, preferably harnessed from renewables, is the energy of the future. That is why we rely on approximately 3900 employees around the world for efficient heating solutions with green technologies.

From the design and manufacture of your appliance through to its maintenance, we systematically apply our expertise, strength of innovation and experience – gained from working with customers with high standards, such as yourself, and from the sale of more than two million appliances each year. We have the right solution to meet any requirement. Solutions designed to raise the level of convenience in your home today and still be up to date tomorrow.

You can see first hand our commitment to green technology by visiting the Energy Campus at our head office in Holzminden, Germany. This training and communication centre is our flagship project for sustainable and resource-efficient construction. It combines the highest standards of architectural and communication quality. As a PlusEnergy building, it generates more energy than it consumes. Come and experience what our name stands for – in theory and practice.





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