DHW heat pumps

WWK 224 ZA

ORDER NO: 203870



WWK 304 ZA

ORDER NO: 203871

Key features

- Compact series specially developed for outdoor installation
- Also suitable for indoor installation (recirculation air mode)
- High available mixed water amount and hygienic DHW temperatures > 61 °C in heat pump mode
- Categorised in the highest possible energy efficiency class for water heaters
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded roll-bond heat exchanger
- Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- Display of the currently available mixed water amount via the LCD screen
- Highly reliable and cost saving due to the impressed current anode integrated as standard
- Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- Includes temperature and pressure safety valve (T&P valve)
- Integral emergency/auxiliary heater included as standard





Type	WWK 224 ZA ORDER NO: 203870	WWK 304 ZA ORDER NO: 203871
Order No	203870	203871
Average heating output (A20/W20-55)	2.10 kW	2.10 kW
Average power input (A20/W20-55)	0.46 W	0.46 W
COP South Africa (A20/W20-55)	4.20	4.55
Max. mixed water amount at 40 °C (based on 15°C/63°C)	369 l	547 l
Heat-up time South Africa (A20 / W20-55)	3.80 h	5.70 h
Output data to EN 16147		
Nominal load profile (EN 16147)	L	XL
COP (EN 16147 / A20)	2,92	2,91
Nominal DHW temperature (EN 16147)	61 °C	61 °C
Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20)	322 l	457 l
Heat-up time (EN 16147 / A20)	7,48 h	11,17 h
Dimensions		
Height x diameter	1501 x 690 mm	1905 x 690 mm
Height	1501 mm	1905 mm
Height when tilted	1652 mm	2026 mm
Height when tilted, incl. packaging	1895 mm	2230 mm

Packaging unit dimensions, height/width/depth	1740/740/740 mm	2100/740/740 mm
Maximum height for installation	2000 m	2000 m

Weights

Weight	120 kg	135 kg

Hydraulic data

Nominal capacity	220 l	302 l
Max. mixed water amount at 40 °C	335 l	475 l

Values

Recommended number of users	≤ 4	≤ 6
Air flow rate	550 m³/h	550 m³/h
Type of anode	Maintenance-free impressed current anode	Maintenance-free impressed current anode

Heating output

Average heating output (A15 / W10-55)	1,6 kW	1,6 kW
Average heating output (A7 / W10-55)	1,2 kW	1,2 kW

Power consumption

Average power consumption of heat pump (A15 / W10-55)	0,5 kW	0,5 kW
Max. power consumption, heat pump (except startup period)	0.65 kW	0.65 kW

Max. power consumption, heat pump + emergency/ auxiliary heater	2.20 kW	2.20 kW

Electrical data

Power consumption, emergency/auxiliary heater	1.50 kW	1.50 kW
Rated voltage	230 V	230 V
Permissible voltage range, external signal transmitter	~ 220-240 V 50/60 Hz	~ 220-240 V 50/60 Hz
Power supply	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Fuse protection	C16 A	C16 A
Max. operating current	9.70 A	9.70 A
Max. starting current	23.44 A	23.44 A

Application limits

Max. DHW temperature with emergency/auxiliary heater	63 °C	63 °C
Min./max. application limits, heat source for heat pump operation	-5/+42 °C	-5/+42 °C
Min./max. application limits for heat source	-5/+42 °C	-5/+42 °C
Min./max. application limits, ambient temperature, cylinder	-5/+55 °C	-5/+55 °C
DHW temperature with heat pump	61 °C	61 °C
Max. DHW temperature with heat pump	65 °C	65 °C
Min. DHW temperature with heat pump	61 °C	61 °C
Min. installation room volume (recirculation air mode, general domestic use)	13 m³	13 m³
Max. permissible operating pressure, cold water/DHW	0.60 MPa	0.60 MPa
Min./max. conductivity, DHW	100-1500 µS/cm	100-1500 µS/cm
High limit safety cut-out	92 °C	92 °C

Sound emissions

Average sound pressure level at 1 m distance, free field	45 dB(A)	45 dB(A)
Sound power level (EN 12102)	56 dB(A)	56 dB(A)

Versions

Refrigerant	R134a	R134a
Refrigerant charge	0,85 kg	0,85 kg
CO2 equivalent (CO2e)	1.216 t	1.216 t
Global warming potential of the refrigerant (GWP100)	1430	1430
Power cable length approx.	2000 mm	2000 mm
IP rating	IP24	IP24

Connections

Water connection	G 1 (with adaptor Rp 3/4 fem.)	G 1 (with adaptor Rp 3/4 fem.)
Safety valve connection	Rp 3/4	Rp 3/4
Condensate connection	G 3/4	G 3/4

STIEBEL ELTRON

Contact information

You have questions? We appreciate to help you:

Call **+27 10 001 85 47** Write an email to **info@stiebel-eltron.co.za**

Installation information

Please ask your local power supply utility or a registered electrician to install appliances that are not fully wired, i.e. ready to plug in. The electrician should also be able to assist you with obtaining the agreement of the respective power supply utility required for the appliance installation.

Website

www.stiebel-eltron.co.za