

WWK 221 electronic

DHW HEAT PUMPS

PRODUCT-NO.: 230949

The fully wired WWK 221 electronic DHW heat pump enables efficient DHW provision for several draw-off points in conjunction with the use of renewable energy. The compact appliance can be installed quickly and easily as a recirculation air unit, to make efficient use of existing waste heat, e.g. from freezers, tumble dryers, heating systems or other heat generators. Alternatively, they can also be installed wherever required with a duct connection for utilising outdoor air as a heat source. The variety of air routing options at the appliance, to the side and/or from above (for air routing from "above", the "LUS 221/301" accessory is required), provides great flexibility in terms of positioning and installation in the installation room. The attractively designed, highly efficient heat pump with an optimally insulated cylinder achieves excellent performance values. The high level of operating convenience offered by the control unit with LCD provides the finishing touch. Information such as the amount of mixed water currently available at +40 °C can be called up in an instant. The high quality equipment includes a maintenance-free impressed current anode and an emergency booster heater. The built-in contact input enables the integration of external signal transmitters, for example a photovoltaic system, to utilise solar power generated on site (requires selected inverter), or, where possible, an off-peak tariff signal.



The main features

DHW heat pump

Compact series for recirculation air or air duct/outdoor air operation

220 l cylinder capacity

Achieves the highest possible energy efficiency: A+

High degree of flexibility regarding siting and installation

Hygienic DHW temperatures up to 65 °C achievable in heat pump mode only

SmartGrid – future-oriented technology



Type	WWK 301 electronic SOL	WWK 221 electronic	WWK 301 electronic
Part no.	233584	230949	230950
Average heating output (A15/W10-55)	1,6 kW	1,6 kW	1,6 kW
Height	1905 mm	1501 mm	1905 mm
Diameter	690 mm	690 mm	690 mm
Weight	156 kg	120 kg	135 kg

Technical data

Energy efficiency class, DHW heating (indoor air), load profile L		A+	
Energy efficiency class, DHW heating (outdoor air), load profile L		A+	
Min./max. application limits, heat source for heat pump operation	-8/+42 °C	-8/+42 °C	-8/+42 °C
Rated capacity	291 l	220 l	302 l
Maximum DHW temperature with heat pump	65 °C	65 °C	65 °C
Nominal DHW temperature (EN 16147)	55 °C	55 °C	55 °C
Nominal load profile (EN16147)	XL	L	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	399 l	284 l	422 l
Maximum available amount of DHW at 40 °C (EN 16147 / A7)	394 l	267 l	422 l
Rated heating output Prated (EN 16147/A20)	1,67 kW	1,51 kW	1,67 kW
Rated heating output Prated (EN 16147/A7)	1,12 kW	1,08 kW	1,30 kW
COP (EN 16147 / A20)	3,75	3,28	3,75
COP (EN 16147 / A7)	2,99	3,07	3,22
Booster heater power consumption	1,50 kW	1,50 kW	1,50 kW
Sound power level, indoor, with 4 m air duct (EN 12102)	52 dB(A)	52 dB(A)	52 dB(A)
Indoor sound power level without air duct (EN 12102)	60 dB(A)	60 dB(A)	60 dB(A)

Average indoor sound pressure level at 1 m distance, free field with 4 m air duct	37 dB(A)	37 dB(A)	37 dB(A)
Average indoor sound pressure level at 1 m distance, free field, without air duct	45 dB(A)	45 dB(A)	45 dB(A)
Max air duct length at 160/200 mm diameter (including 3 x 90° bends)	20/40 m	20/40 m	20/40 m
Available external pressure	120 Pa	120 Pa	120 Pa
Power supply	1/N/PE ~ 230 V 50Hz	1/N/PE ~ 230 V 50Hz	1/N/PE ~ 230 V 50Hz

Energy efficiency class in accordance with EU Regulation no. 812/2013; rating from September 2017. Highest possible energy rating A until September 2017.

Nominal data to EN 16147 - A15 = heat source, recirculation air / A7 = heat source, outdoor air (indoor installation)

Contact information

You have questions? We appreciate to help you:

Call **+49 5531 - 7020**

Write an email to **info@stiebel-eltron.com**

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.