

WPE-I 15 H 230 Premium

PRODUCT-NO.: 238613

Application • This ground source heat pump with output-dependent control and inverter technology is installed indoors. The high level of integration simplifies installation whilst the small footprint means that it does not take up much space.

- The heat pump can be used in modernisation projects as flow temperatures of up to 75 °C are available all year round for room heating and DHW heating.
- Mono mode is possible for both heating and DHW heating.

Convenience features • Quiet operation, due to encapsulated refrigerant circuit and acoustically isolated compressor. • Fully automatic, weather-compensated control of the heating system is assured by the integral heat pump manager. Control via the home network or from a mobile device is possible via the optional Internet Service Gateway (ISG). With integral heat and electricity metering via refrigerant circuit data. • High level of integration: high efficiency circulation pumps and expansion vessels for the brine and heating side are included. Also integrated are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, a diverter valve for DHW heating and a safety valve with discharge hose. • The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454C whose properties are optimised for use in heat pumps. • The corrosion-protected, enamelled metal casing is made from hot-dip galvanised, powder coated sheet steel. Colour: Alpine white.

Efficiency • Optimum operation and high efficiency all year round thanks to the inverter and integral recuperator.

Installation • Carrying handles are provided on the back panel for easy transport. No special safety precautions are required when siting. Only the minimum room size must be complied with. Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. For easy installation, the hydraulic connections are equipped with quick-release fittings and come with thermal insulation.

The main features

Inverter technology allows ideally matched heating output through the variable speed compressor



Futureproof and eco-friendly refrigerant with high efficiency

High degree of DHW convenience and mono mode heating thanks to high flow temperatures of up to 75 °C

Easy and time saving installation with high level of integration

Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts

Pressure monitoring in the heat source circuit with integral brine pressure switch



Type	WPE-I 04 H 230 Premium	WPE-I 06 H 230 Premium	WPE-I 08 H 230 Premium
Part no.	202613	238610	238611
Energy data			
Energy efficiency class, moderate climate, W55/W35	A+++/A+++	A+++/A+++	A+++/A+++
Energy efficiency class	A+++	A+++	A+++
Heating output			
Heating output at B0/W35 (EN 14511)	1,96 kW	2,37 kW	2,78 kW
Heating output at B10/W35 (min./max.)	1,0 - 5,71 kW	1,0 - 7,36 kW	1,0 - 7,36 kW
Heating output at B0/W35 (min./max.)	1,0 - 4,2 kW	1,0 - 6,6 kW	1,0 - 7,6 kW
Power consumption			
Power consumption at B0/W35 (EN 14511)	0,43 kW	0,52 kW	0,6 kW
Coefficients of performance			
COP at B0/W35 (EN 14511)	4.60	4.60	4.67
SCOP (EN 14825)	5.07	5.20	5.12
Sound emissions			
Sound power level W35 (EN 12102)	38.00 dB(A)	38.00 dB(A)	39.00 dB(A)
Sound power level W55 (EN 12102)	38.00 dB(A)	41.00 dB(A)	40.00 dB(A)
Application limits			
Min. application limit, heat source	-5 °C	-5 °C	-5 °C
Max. application limit, heat source	20 °C	20 °C	20 °C
Min. application limit on heating side	15 °C	15 °C	15 °C

Max. application limit on the heating side	75 °C	75 °C	75 °C
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Dimensions

Height	1369 mm	1369 mm	1369 mm
Width	598 mm	598 mm	598 mm
Depth	658 mm	658 mm	658 mm

Weights

Weight	180 kg	180 kg	180 kg
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Electrical data

Frequency	50 Hz	50 Hz	50 Hz
Max. operating current	8.4 A	13 A	15.09 A
Starting current (with/without starting current limiter)	<6 A	<6 A	<6 A

Values

Flow rate on the heating side	0,34 m ³ /h	0,41 m ³ /h	0,48 m ³ /h
Heating flow rate (EN 14511) at A7/W35, B0/W35 and 5 K	0.34 m ³ /h	0.41 m ³ /h	0.48 m ³ /h
Available external pressure differential, heat source	1,020 hPa	940 hPa	830 hPa
Available external pressure differential, heating	710 hPa	660 hPa	620 hPa

Versions

Refrigerant	R454C	R454C	R454C
Refrigerant charge	2,2 kg	2,2 kg	2,2 kg
Global warming potential of the refrigerant (GWP100)	148	148	148
CO ₂ equivalent (CO ₂ e)	0.32 t	0.32 t	0.32 t
Compressor oil	Diamond Freeze MA68	Diamond Freeze MA68	Diamond Freeze MA68
Circulation pump type, source side	Grundfos UPML	Grundfos UPML	Grundfos UPML
Circulation pump type, heating side	Yonos PARA 25/7.0	Yonos PARA 25/7.0	Yonos PARA 25/7.0
Condenser material	1.4401/Cu	1.4401/Cu	1.4401/Cu

Evaporator material	1.4401/Cu	1.4401/Cu	1.4401/Cu
IP rating	IP 20	IP 20	IP 20

Connections

Connection, heating side	28 mm	28 mm	28 mm
Connection, heat source side	28 mm plug-in connection	28 mm plug-in connection	28 mm plug-in connection

Heating water quality requirements

Water hardness	=3 °dH	=3 °dH	=3 °dH
pH value (with aluminium fittings)	8,0-8,5	8,0-8,5	8,0-8,5
pH value (without aluminium fittings)	8.0-10.0	8.0-10.0	8.0-10.0
Conductivity (softening)	<1000 µS/cm	<1000 µS/cm	<1000 µS/cm
Conductivity (desalination)	20-100 µS/cm	20-100 µS/cm	20-100 µS/cm
Chloride	<30 mg/l	<30 mg/l	<30 mg/l
Oxygen 8-12 weeks after filling (softening)	<0.02 mg/l	<0.02 mg/l	<0.02 mg/l
Oxygen 8-12 weeks after filling (desalination)	< 0,1 mg/l	< 0,1 mg/l	< 0,1 mg/l

Heat transfer medium requirements on the heat source side

Concentration of mono ethylene glycol, heat transfer medium	25-35 % by vol.	25-35 % by vol.	25-35 % by vol.
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Type	WPE-I 12 H 230 Premium	WPE-I 15 H 230 Premium
Part no.	238612	238613

Energy data

Energy efficiency class, moderate climate, W55/W35	A+++/A+++	A+++/A+++
Energy efficiency class	A+++	A+++

Heating output

Heating output at B0/W35 (EN 14511)	4,19 kW	5,18 kW
Heating output at B10/W35 (min./max.)	2,1 - 15,38 kW	2,1 - 15,33 kW
Heating output at B0/W35 (min./max.)	2,1 - 12,7 kW	2,1 - 14,8 kW

Power consumption

Power consumption at B0/W35 (EN 14511)	0,84 kW	1,07 kW
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Coefficients of performance

COP at B0/W35 (EN 14511)	5.01	4.86
SCOP (EN 14825)	5.59	5.44

Sound emissions

Sound power level W35 (EN 12102)	39.00 dB(A)	39.00 dB(A)
Sound power level W55 (EN 12102)	39.00 dB(A)	39.00 dB(A)

Application limits

Min. application limit, heat source	-5 °C	-5 °C
Max. application limit, heat source	20 °C	20 °C
Min. application limit on heating side	15 °C	15 °C

Max. application limit on the heating side	75 °C	75 °C
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Dimensions

Height	1369 mm	1369 mm
Width	598 mm	598 mm
Depth	658 mm	658 mm

Weights

Weight	190 kg	190 kg
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Electrical data

Frequency	50 Hz	50 Hz
Max. operating current	24.32 A	24.48 A
Starting current (with/without starting current limiter)	<10 A	<10 A

Values

Flow rate on the heating side	0,74 m ³ /h	0,9 m ³ /h
Heating flow rate (EN 14511) at A7/W35, B0/W35 and 5 K	0.74 m ³ /h	0.9 m ³ /h
Available external pressure differential, heat source	710 hPa	520 hPa
Available external pressure differential, heating	610 hPa	500 hPa

Versions

Refrigerant	R454C	R454C
Refrigerant charge	3,1 kg	3,1 kg
Global warming potential of the refrigerant (GWP100)	148	148
CO ₂ equivalent (CO ₂ e)	0.45 t	0.45 t
Compressor oil	Diamond Freeze MA68	Diamond Freeze MA68
Circulation pump type, source side	Grundfos UPML	Grundfos UPML
Circulation pump type, heating side	Yonos PARA 25/7.5	Yonos PARA 25/7.5
Condenser material	1.4401/Cu	1.4401/Cu

Evaporator material	1.4401/Cu	1.4401/Cu
IP rating	IP 20	IP 20

Connections

Connection, heating side	28 mm	28 mm
Connection, heat source side	28 mm plug-in connection	28 mm plug-in connection

Heating water quality requirements

Water hardness	=3 °dH	=3 °dH
pH value (with aluminium fittings)	8,0-8,5	8,0-8,5
pH value (without aluminium fittings)	8.0-10.0	8.0-10.0
Conductivity (softening)	<1000 µS/cm	<1000 µS/cm
Conductivity (desalination)	20-100 µS/cm	20-100 µS/cm
Chloride	<30 mg/l	<30 mg/l
Oxygen 8-12 weeks after filling (softening)	<0.02 mg/l	<0.02 mg/l
Oxygen 8-12 weeks after filling (desalination)	< 0,1 mg/l	< 0,1 mg/l

Heat transfer medium requirements on the heat source side

Concentration of mono ethylene glycol, heat transfer medium	25-35 % by vol.	25-35 % by vol.
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Please note: Heat source temperatures of up to 40 °C are permissible briefly (max. 30 min).

Contact information

Do you have additional questions? Then please do not hesitate to contact us, we would be only too happy to help:

Call 0151 346 2300

Or send an e-mail to

sales@stiebel-eltron.co.uk

Only a qualified contractor should carry out the installation, commissioning, maintenance and repair of this appliance. Where applicable and prior to installation the electricity and/or water utility companies should be notified of your intention to install the product.