Ground source heat pumps

WPF 66

ORDER NO: 233008



Key features

- Ground source heat pump for flexible use
- Low operating costs due to high coefficient of performance all year round
- Suitable for use in residential and commercial buildings due to high output
- Where available space is limited, two appliances can be installed one above the other
- High reliability thanks to robust single compressor design

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Technical data sheet



Type	WPF 66 ORDER NO: 233008
Order No	233008

Energy data

Energy efficiency class, moderate climate, W55/W35 (A +++ – D)	A++/A+++
SCOP 35 °C (EN 14825)	4.95

Heating output

Heating output at B0/W35 (EN 14511)	67,10 kW

Power consumption

Power consumption at B0/W35 (EN 14511)	14.71 kW

Coefficients of performance

COP at B0/W35 (EN 14511)	4.56

Sound emissions

Sound pressure level at 1 m distance in free field	53.5 dB(A)
Sound pressure level at 5 m distance in free field	39.50 dB(A)

Application limits

Min. application limit, heat source	-5 °C
Max. application limit, heat source	20 °C
Min. application limit on heating side	15 °C
Max. application limit on the heating side	60 °C
Max. permissible pressure	0.60 MPa

Dimensions

Height	1154 mm
Width	1242 mm
Depth	860 mm

Values

Internal volume, source side	24.10 l
Brine volume	23.80 l
Nominal design flow rate of heating system at B0/ W35 and 7 K	8.26 m³/h
Pressure differential on the heating side	80 hPa
Pressure differential on the heat source side	160 hPa
Permissible refrigerant pressure	4.30 MPa
Flow rate on heat source side	16.1 m³/h

Hydraulic data

Internal volume, heating side	24.10 l

Heating flow rate (EN 14511) at A7/W35, B0/W35 and 5 K	11.56 m³/h
Min. flow rate, heating	5.78 m³/h

Weights

Weight	655 kg

Electrical data

Rated voltage, compressor	400 V
Rated voltage, emergency/auxiliary heater	400 V
Rated voltage, control unit	230 V
Phases, compressor	3/N/PE
Phases, control unit	1/N/PE
Frequency	50 Hz
Max. operating current	41.00 A
Starting current (with/without starting current limiter)	80/- A
Power factor cos(phi)	0.95
Compressor fuse protection	3 x C 50 A
Control unit fuse protection	1 x B 16 A
Max. mains impedance Zmax to DIN EN 61000-3-11	0.45 Ohm
Max. phase angle cos(phi)	0.88

Versions

Refrigerant	R410A
Refrigerant charge	14,5 kg

Global warming potential of the refrigerant (GWP100)	2,088
CO2 equivalent (CO2e)	30.28 t
Colour	white
Compressor oil	Emkarate RL 32 3MAF
Condenser material	1.4401/Cu
Evaporator material	1.4401/Cu
IP rating	IP34

Connections

Connection, heating side	G 2
Connection, heat source side	G 2
Electrical connecting cable	5 x 10.0 mm2

Heat transfer medium requirements on the heat source side

Ethylene glycol concentration, geothermal probe	25 Vol.-%
Ethylene glycol concentration, geothermal collector	33 Vol.-%

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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