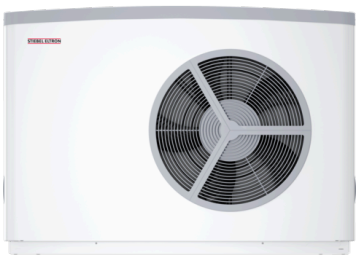
Air source heat pumps

WPL 25 AC

ORDER NO: 236645



WPL 25 ACS

ORDER NO: 236643

Key features

- The air source heat pump for heating and cooling is installed outdoors
- Inverter technology allows ideally matched heating output through the variable speed compressor
- Even at low outside temperatures, the enhanced vapour injection/enhanced saturated vapour injection of the heat pump achieves a high flow temperature
- Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- Improved room climate in summer with active cooling using circuit reversal
- Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone





Type	WPL 25 AC ORDER NO: 236645	WPL 25 ACS ORDER NO: 236643
Order No	236645	236643
Energy data		
Energy efficiency class, heat pump W35 (A+++ – D)	A+++	A+++
Energy efficiency class, heat pump W55 (A+++ – D)	A++	A++
SCOP 35 °C (EN 14825)	4.76	4.53
Heating output		
Heating output at A7/W35 (min./max.)	7,85/12,85 kW	7,85/12,85 kW
Heating output at A2/W35 (min./max.)	8,33/13,64 kW	8,33/13,64 kW
Heating output at A-7/W35 (min./max.)	6,16/12,86 kW	6,16/12,86 kW
Heating output at A20/W35 (EN 14511)	11.40 kW	
Heating output at A20/W55 (EN 14511)	9.83 kW	
Heating output at A10/W35 (EN 14511)	8.58 kW	8.58 kW
Heating output at A7/W35 (EN 14511)	7.84 kW	8.00 kW
Heating output at A7/W45 (EN 14511)	7.44 kW	7.25 kW
Heating output at A7/W55 (EN 14511)	7.36 kW	7.52 kW
Heating output at A2/W35 (EN 14511)	8.33 kW	8.33 kW
Heating output at A2/W45 (EN 14511)	8.49 kW	8.49 kW
Heating output at A2/W55 (EN 14511)	8.64 kW	8.64 kW
Heating output at A-7/W35 (EN 14511)	12.86 kW	12.86 kW

Heating output at A-7/W45 (EN 14511)	13.80 kW	13.06 kW
Heating output at A-7/W55 (EN 14511)	13.93 kW	13.97 kW
Heating output at A-7/W65 (EN 14511)	14.30 kW	14.30 kW
Heating output at A-15/W35 (EN 14511)	12.05 kW	11.96 kW
Heating output at A-15/W55 (EN 14511)	12.52 kW	13.10 kW
Cooling capacity at A35/W7, partial load (EN 14511)	6.76 kW	6.76 kW
Max. cooling capacity at A35/W7	14.88 kW	14.88 kW
Cooling capacity at A35/W18, partial load (EN 14511)	6.76 kW	6.76 kW
Max. cooling capacity at A35/W18	17.06 kW	17.06 kW
Heating output in reduced night mode A-7/W35	9.00 kW	9.00 kW
Heating output in max. reduced night mode A-7/W35	7.85 kW	7.85 kW

Power consumption

Power consumption at A20/W35 (EN 14511)	1.77 kW	
Power consumption at A20/W55 (EN 14511)	2.45 kW	
Power consumption at A10/W35 (EN 14511)	1.64 kW	1.64 kW
Power consumption at A7/W35 (EN 14511)	1.54 kW	1.66 kW
Power consumption at A7/W45 (EN 14511)	1.97 kW	1.97 kW
Power consumption at A7/W55 (EN 14511)	2.33 kW	2.33 kW
Power consumption at A7/W65 (EN 14511)	3.28 kW	3.28 kW
Power consumption at A2/W35 (EN 14511)	2.01 kW	2.01 kW
Power consumption at A2/W45 (EN 14511)	2.54 kW	2.54 kW
Power consumption at A2/W55 (EN 14511)	3.06 kW	3.06 kW
Power consumption at A-7/W35 (EN 14511)	4.16 kW	4.31 kW
Power consumption at A-7/W45 (EN 14511)	5.23 kW	5.22 kW
Power consumption at A-7/W55 (EN 14511)	5,76 kW	5,94 kW

Power consumption at A-7/W65 (EN 14511)	7.53 kW	7.53 kW
Power consumption at A-15/W35 (EN 14511)	4.48 kW	4.56 kW
Power consumption at A-15/W55 (EN 14511)	6.08 kW	6.29 kW

Coefficients of performance

COP at A20/W35 (EN 14511)	6.44	
COP at A20/W55 (EN 14511)	4.01	
COP at A10/W35 (EN 14511)	5.22	5.22
COP at A7/W35 (EN 14511)	5.09	4.82
COP at A7/W45 (EN 14511)	3.78	3.68
COP at A7/W55 (EN 14511)	3.16	3.23
COP at A7/W65 (EN 14511)	2.57	2.57
COP at A2/W35 (EN 14511)	4.14	4.14
COP at A2/W45 (EN 14511)	3.35	3.35
COP at A2/W55 (EN 14511)	2.82	2.82
COP at A-7/W35 (EN 14511)	2.93	2.98
COP at A-7/W45 (EN 14511)	2.64	2.50
COP at A-7/W55 (EN 14511)	2.42	2.35
COP at A-7/W65 (EN 14511)	1.90	1.90
COP at A-15/W35 (EN 14511)	2.69	2.62
COP at A-15/W55 (EN 14511)	2.06	2.08
Energy efficiency ratio at A35/W7, partial load (EN 14511)	2.93	2.93
Energy efficiency ratio at A35/W7 max.	2.38	2.38
Energy efficiency ratio at A35/W18, partial load (EN 14511)	3.76	3.76
Energy efficiency ratio at A35/W18 max.	2.83	2.83

Sound emissions

Sound power level (EN 12102)	55 dB(A)	55 dB(A)
Max. sound power level	66 dB(A)	66 dB(A)
Sound power level, reduced night mode	57 dB(A)	57 dB(A)
Sound power level, max. reduced night mode	55 dB(A)	55 dB(A)

Application limits

Min. application limit, heat source	-20 °C	-20 °C
Max. application limit, heat source	40 °C	40 °C
Application limit, heat source at W60	-20 °C	-20 °C
Application limit, heat source at W65	-20 °C	-20 °C
Min. application limit on heating side	15 °C	15 °C
Max. application limit on the heating side	65 °C	65 °C
Min. cooling mode application limit for outside temperature	15 °C	15 °C
Max. cooling mode application limit for outside temperature	40 °C	40 °C
Operating pressure	0.30 MPa	0.30 MPa

Dimensions

Height	1045 mm	1045 mm
Width	1490 mm	1490 mm
Depth	593 mm	593 mm

Weights

Weight	175 kg	175 kg

Electrical data

Rated voltage, compressor	400 V	230 V
Rated voltage, emergency/auxiliary heater	400 V	230 V
Rated voltage, control unit	230 V	230 V
Phases, compressor	3/N/PE	1/N/PE
Phases, emergency/auxiliary heater	3/N/PE	2/N/PE
Phases, control unit	1/N/PE	1/N/PE
Compressor fuse protection	3 x B 16 A	1 x B 35 A
Emergency/auxiliary heater fuse protection	3 x B 16 A	2x B 16 A
Control unit fuse protection	1 x B 16 A	1 x B 16 A
Power consumption, emergency/auxiliary heater	8.80 kW	6.20 kW
Max. power consumption excl. emergency/auxiliary heater	7.10 kW	6.90 kW
Max. power consumption, heat pump fan	0.20 kW	0.20 kW
Starting current	4 A	10 A
Max. operating current	10.20 A	30.00 A
Max. current, blocked motor compressor	38 A	38 A
Power factor cos(phi)	0.95/0.95	0.95/0.95

Hydraulic data

Design flow rate A-7/W35 7K	1.57 m³/h	1.59 m³/h

Internal pressure drop at design volume flow A-7/W35 7K	100 hPa	100 hPa
Heating flow rate (EN 14511) at A7/W35, B0/W35 and 5 K	1.40 m³/h	1.40 m³/h
Min. flow rate, heating	1.00 m³/h	1.00 m³/h

Values

Flow rate on heat source side	4000 m³/h	4000 m³/h

Versions

Refrigerant	R410A	R410A
Refrigerant charge	5,5 kg	5,5 kg
Global warming potential of the refrigerant (GWP100)	2,088	2,088
CO2 equivalent (CO2e)	11.48 t	11.48 t
IP rating	IP14B	IP14B
Defrost type	Circuit reversal	Circuit reversal
Frost protection	•	•
Colour	white	white
Condenser material	1.4401/Cu	1.4401/Cu

Connections

Connection, heating flow/return	28 mm	28 mm

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