

## Subtype WPL 25 AS

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
Address	Dr. Stiebel Straße 33
ZIP	37603
City	Holzminden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	WPL 25 AS
Registration number	011-1W0003
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.7 kg
Certification Date	11.08.2016

Model WPL 25 AS		
Model name	WPL 25 AS	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	Warmer Climate, Colder Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-4   Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Starting and operating test	passed	
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ηs	173 %	136 %
Prated	15.00 kW	15.00 kW
SCOP	4.39	3.47
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.00 kW	13.26 kW
COP Tj = -7°C	3.02	2.43
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.00 kW	7.70 kW
COP Tj = +2°C	4.40	3.37
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.10 kW	7.90 kW
COP Tj = +7°C	5.64	4.45
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.10 kW	9.00 kW
COP Tj = 12°C	8.11	6.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.80 kW	12.40 kW
COP Tj = Tbiv	3.18	2.53

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	13.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.28
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.40 kW	1.60 kW
Annual energy consumption Qhe	7055 kWh	8940 kWh

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	153 %	126 %
Prated	21.00 kW	22.00 kW
SCOP	3.89	3.23
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	12.80 kW	13.50 kW
COP Tj = -7°C	3.21	2.65
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.10 kW	7.90 kW
COP Tj = +2°C	4.75	3.75
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.20 kW	8.00 kW
COP Tj = +7°C	5.95	4.86
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.10 kW	9.00 kW
COP Tj = 12°C	8.11	6.95
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.80 kW	13.50 kW
COP Tj = Tbiv	3.21	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.40 kW	19.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.38
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	21.17 kW	22.26 kW
Annual energy consumption Q <sub>he</sub>	13312 kWh	16814 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL	17.40	19.30
COP T <sub>j</sub> = -15°C (if TOL	2.80	2.38
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90	0.90

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	206 %	155 %
Prated	8.00 kW	7.00 kW
SCOP	5.21	3.95
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	7.90 kW	7.40 kW
COP T <sub>j</sub> = +2°C	3.89	2.59
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.90	0.90
P <sub>dh</sub> T <sub>j</sub> = +7°C	8.10 kW	7.70 kW
COP T <sub>j</sub> = +7°C	5.10	3.60
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.90	0.90
P <sub>dh</sub> T <sub>j</sub> = 12°C	9.10 kW	9.00 kW
COP T <sub>j</sub> = 12°C	7.72	6.11
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.90	0.90
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	7.90 kW	7.40 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.89	2.59
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	17.60 kW	19.80 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.72	2.29
WTOL	65 °C	65 °C
P <sub>off</sub>	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	2050 kWh	2367 kWh

### Model WPL 25 AS + HSBC 300 cool " Profile M"

Model name	WPL 25 AS + HSBC 300 cool " Profile M"
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	n/a

### Outdoor Air/Water

#### EN 16147 | Average Climate

Declared load profile	M
Efficiency $\eta_{DHW}$	79 %
COP	1.72
Heating up time	1:53 h:min
Standby power input	79.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	350 l

### Model WPL 25 AS + HSBC 300 cool " Profile XL"

Model name	WPL 25 AS + HSBC 300 cool " Profile XL"
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

### General data

Power supply	1x230V 50Hz
Off-peak product	n/a

### Outdoor Air/Water

#### EN 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	111 %
COP	2.60
Heating up time	1:49 h:min
Standby power input	79.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	362 l