

## Subtype WPL 25 ACS

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
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Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	WPL 25 ACS
Registration number	011-1W0492
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	5.5 kg
Certification Date	11.08.2016

## Model WPL 25 ACS

Model name	WPL 25 ACS
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
Defrost test	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
$\eta_s$	178 %	139 %
Prated	15.00 kW	15.00 kW
SCOP	4.53	3.55
Tbiv	-5 °C	-5 °C
TOL	-20 °C	-20 °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	6839 kWh	8723 kWh

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	154 %	137 %
Prated	21.00 kW	22.00 kW
SCOP	3.93	3.25
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>	13182 kWh	16684 kWh
P <sub>d,h</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>d,h</sub> T <sub>j</sub> = -15 °C	0.90	0.90

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	236 %	174 %
Prated	8.00 kW	7.00 kW
SCOP	5.97	4.44
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>d,h</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>d,h</sub> T <sub>j</sub> = +2 °C	0.90	0.90
P <sub>d,h</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>d,h</sub> T <sub>j</sub> = +7 °C	0.90	0.90
P <sub>d,h</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>d,h</sub> T <sub>j</sub> = +12 °C	0.90	0.90
P <sub>d,h</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>d,h</sub> T <sub>j</sub> = TOL or P <sub>d,h</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>	1789 kWh	2107 kWh

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

Model name	WPL 25 ACS + 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 ACS + HSBC 300 cool " Profile XL"

Model name	WPL 25 ACS + 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