

Subtype WPL 57

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 57
Registration number	011-1W0031
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	7.5 kg
Certification Date	13.10.2016

Model WPL 57

Model name	WPL 57
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	31.01 kW	29.91 kW
El input	8.64 kW	11.22 kW
COP	3.59	2.67

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	134 %	110 %
Prated	31.00 kW	33.00 kW
SCOP	3.42	2.84
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	23.90 kW	25.50 kW
COP Tj = -7°C	2.88	2.30
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	29.60 kW	30.50 kW
COP Tj = +2°C	3.46	2.84
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	31.30 kW	30.70 kW
COP Tj = +7°C	3.87	3.24

Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	39.60 kW	38.70 kW
COP Tj = 12°C	4.78	4.05
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	25.20 kW	26.50 kW
COP Tj = Tbiv	3.03	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.10 kW	23.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	8.90 kW	9.10 kW
Annual energy consumption Qhe	18707 kWh	24031 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	108 %	92 %
Prated	32.00 kW	34.00 kW
SCOP	2.78	2.37
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	23.70 kW	24.90 kW
COP Tj = -7°C	3.03	2.48
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	29.50 kW	30.30 kW
COP Tj = +2°C	3.60	2.98
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	31.30 kW	30.80 kW
COP Tj = +7°C	3.98	3.40
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	39.60 kW	38.90 kW
COP Tj = 12°C	4.76	4.16
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	21.70 kW	23.10 kW
COP Tj = Tbiv	2.84	2.32

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.60 kW	17.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	32.00 kW	34.00 kW
Annual energy consumption Qhe	28347 kWh	35394 kWh
Pdh Tj = -15°C (if TOL		
COP Tj = -15°C (if TOL		
Cdh Tj = -15 °C		

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	133 %	108 %
Prated	30.00 kW	31.00 kW
SCOP	3.39	2.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	29.80 kW	31.20 kW
COP Tj = +2°C	3.30	2.53
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	31.10 kW	30.30 kW
COP Tj = +7°C	3.70	2.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	39.50 kW	38.40 kW
COP Tj = 12°C	4.66	3.87
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	29.80 kW	31.20 kW
COP Tj = Tbiv	3.30	2.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.80 kW	31.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.30	2.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		

WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	11817 kWh	14885 kWh