Subtype WPF 13 basic

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	WPF 13 basic
Registration number	011-1W0012
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	25.08.2016

Model WPF 13 basic, all climates	
Model name	WPF 13 basic, all climates
Application	Heating (low temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	failed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.59 kW	
El input	2.85 kW	
COP	4.42	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	
Prated	13.00 kW	
SCOP	4.92	
Tbiv	-10 °C	
TOL	-20 °C	
Pdh Tj = -7°C	12.60 kW	
COP Tj = -7°C	4.48	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	12.70 kW	
COP Tj = +2°C	4.84	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	12.80 kW	
COP Tj = +7°C	5.21	

Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	12.90 kW
COP Tj = 12°C	5.63
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	12.60 kW
COP Tj = Tbiv	4.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.40 kW
Annual energy consumption Qhe	5285 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	196 %	
Prated	16.00 kW	
SCOP	5.10	
Tbiv	-15 °C	
TOL	-22 °C	
Pdh Tj = -7°C	12.80 kW	
COP Tj = -7°C	5.02	
Cdh Tj = -7 °C	0.900	
Pdh Tj = +2°C	12.80 kW	
COP Tj = +2°C	5.31	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	12.90 kW	
COP Tj = +7°C	5.56	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	12.90 kW	
COP Tj = 12°C	5.60	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	12.70 kW	
COP Tj = Tbiv	4.90	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	3.30 kW
Annual energy consumption Qhe	7542 kWh
Pdh Tj = -15°C (if TOL	12.70
COP Tj = -15°C (if TOL	4.90
Cdh Tj = -15 °C	0.90

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	189 %	
Prated	13.00 kW	
SCOP	4.94	
Tbiv	2 °C	
TOL	0 °C	
Pdh Tj = +2°C	12.60 kW	
COP Tj = +2°C	4.42	
Cdh Tj = +2 °C	0.900	
Pdh Tj = +7°C	12.70 kW	
COP Tj = +7°C	4.76	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	12.90 kW	
COP Tj = 12°C	5.34	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	12.60 kW	
COP Tj = Tbiv	4.42	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		

WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.40 kW
Annual energy consumption Qhe	3407 kWh

Model WPF 13 basic, average climates	
Model name	WPF 13 basic, average climates
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	failed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.59 kW	11.60 kW
El input	2.85 kW	4.52 kW
COP	4.42	2.57

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	122 %
Prated	13.00 kW	12.00 kW
SCOP	4.92	3.26
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	12.60 kW	11.70 kW
COP Tj = -7°C	4.48	2.69
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	12.70 kW	12.00 kW
COP Tj = +2°C	4.84	3.20
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	12.80 kW	12.30 kW
COP Tj = +7°C	5.21	3.60

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	12.90 kW	12.50 kW
COP Tj = 12°C	5.63	4.09
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.60 kW	11.60 kW
COP Tj = Tbiv	4.42	2.57
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	11.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	2.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	78 W	78 W
PSB	3 W	3 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	0.00 kW
Annual energy consumption Qhe	5285 kWh	7350 kWh