

## 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 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 12102-1   Average Climate		
	Low temperature Medium temperature	
Sound power level indoor	60 dB(A)	
EN 14825   Average Climate		
EN 14825   Average Climate	Low temperature Medium temperature	
	Low temperature Medium temperature 189 %	
EN 14825   Average Climate ηs Prated		
ηs	189 %	
ηs Prated	189 % 13.00 kW	
ηs Prated SCOP	189 % 13.00 kW 4.92	
ηs Prated SCOP Tbiv	189 % 13.00 kW 4.92 -10 °C	
ηs Prated SCOP Tbiv TOL	189 % 13.00 kW 4.92 -10 °C -20 °C	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7 °C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84 0.900	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84 0.900 12.80 kW	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84 0.900 12.80 kW 5.21	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Cdh Tj = +7°C COP Tj = +7°C COP Tj = +7°C	189 %         13.00 kW         4.92         -10 °C         -20 °C         12.60 kW         4.48         0.900         12.70 kW         4.84         0.900         12.80 kW         5.21         0.900	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +7°C Cdh Tj = +7°C Pdh Tj = +7°C Cdh Tj = +7°C Pdh Tj = 12°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84 0.900 12.80 kW 5.21 0.900 12.90 kW	
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = 12°C	189 % 13.00 kW 4.92 -10 °C -20 °C 12.60 kW 4.48 0.900 12.70 kW 4.84 0.900 12.80 kW 5.21 0.900 12.90 kW	



COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL	12.60 kW	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL60 °CVTOL60 °CPoff0 WPTO78 WPSB3 WPCK0 WSupplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateMedium temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureMedium temperature	< Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL	4.42	
< Tdesignh WTOL 60 °C Poff 0 W PTO 78 W PSB 3 W PCK 0 W Supplementary Heater: Type of energy Electricity input 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			
Poff0 WPTO78 WPSB3 WPCK0 WSupplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateLow temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureMedium temperatureLow temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureMedium temperature			
PTO78 WPSB3 WPCK0 WSupplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateLow temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureMedium temperatureLow temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureMedium temperatureMedium temperature		60 °C	
PSB3 WPCK0 WSupplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateLow temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureLow temperatureMedium temperatureLow temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureLow temperatureMedium temperature	Poff	0 W	
PCK0 WSupplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateLow temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureMedium temperatureLow temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureMedium temperatureMedium temperatureLow temperatureMedium temperatureMedium temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureMedium temperatureMedium temperature	РТО	78 W	
Supplementary Heater: Type of energy inputElectricitySupplementary Heater: PSUP0.40 kWAnnual energy consumption Qhe5285 kWhEN 12102-1   Colder ClimateLow temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureLow temperatureMedium temperatureLow temperatureMedium temperatureEN 14825   Colder ClimateLow temperatureLow temperatureMedium temperature	PSB	3 W	
input 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 Medium temperature	РСК	0 W	
Annual energy consumption Qhe       5285 kWh         EN 12102-1   Colder Climate       Low temperature         Sound power level indoor       60 dB(A)         EN 14825   Colder Climate       Low temperature         Low temperature       Medium temperature         Low temperature       Medium temperature		Electricity	
EN 12102-1   Colder Climate Low temperature Medium temperature Sound power level indoor 60 dB(A) EN 14825   Colder Climate Low temperature Medium temperature	Supplementary Heater: PSUP	0.40 kW	
Low temperatureMedium temperatureSound power level indoor60 dB(A)EN 14825   Colder ClimateLow temperatureLow temperatureMedium temperature	Annual energy consumption Qhe	5285 kWh	
Sound power level indoor     60 dB(A)       EN 14825   Colder Climate     Low temperature       Medium temperature	EN 12102-1   Colder Climate		
Sound power level indoor     60 dB(A)       EN 14825   Colder Climate     Low temperature       Medium temperature		low temperature	Medium temperature
EN 14825   Colder Climate Low temperature Medium temperature	Sound nower level indoor	-	Mediam temperature
Low temperature Medium temperature			
	EN 14825   Colder Climate		
		Low temperature	Medium temperature
ηs 196 %	ης	196 %	
Prated 16.00 kW	Prated	16.00 kW	
SCOP 5.10	SCOP	5.10	
Tbiv -15 °C	Tbiv	-15 °C	
TOL -22 °C	TOL	-22 °C	
Pdh Tj = $-7^{\circ}$ C 12.80 kW	-	12.80 kW	
COP Tj = -7°C 5.02	-		
Cdh Tj = -7 C   0.900	-	0.900	
$Pdh Tj = +2^{\circ}C   12.80 kW$	$Pdh Tj = +2^{\circ}C$	12.80 kW	
$COP Tj = +2^{\circ}C $ 5.31	COP Tj = +2°C	5.31	
Cdh Tj = +2 °C   0.900	-		
$Pdh Tj = +7^{\circ}C   12.90 kW$	-		
$COP Tj = +7^{\circ}C   5.56$	*		
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 12.70 kW < Tdesignh	< Tdesignh		
COP Tj = TOL or COP Tj = Tdesignh if TOL 4.90		4.90	
< Tdesignh			
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	, , ,		



WTOL	60 °C	
Poff	0 W	
РТО	78 W	
PSB	3 W	
РСК	0 W	
Supplementary Heater: Type of energy	Electricity	
input		
Supplementary Heater: PSUP	3.30 kW	
Annual energy consumption Qhe	7542 kWh	
Pdh Tj = $-15$ °C (if TOL	12.70	
COP Tj = $-15^{\circ}$ 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
ης	189 %	
Prated	13.00 kW	
SCOP	4.94	
Tbiv	2 °C	
TOL	0 °C	
Pdh Tj = $+2^{\circ}$ C	12.60 kW	
COP TJ = +2°C	4.42	
Cdh Tj = +2 °C	0.900	
$Pdh Tj = +7^{\circ}C$	12.70 kW	
COP TJ = +7°C	4.76	
Cdh Tj = +7 °C	0.900	
Pdh Tj = $12^{\circ}$ 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	
РСК	W 0	



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 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
$Pdh Tj = -7^{\circ}C$	12.60 kW	11.70 kW
$COP Tj = -7^{\circ}C$	4.48	2.69
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2^{\circ}$ C	12.70 kW	12.00 kW
COP Tj = +2°C	4.84	3.20
Cdh Tj = +2 °C	0.900	0.900
$Pdh Tj = +7^{\circ}C$	12.80 kW	12.30 kW
COP Tj = +7°C	5.21	3.60
Cdh Tj = +7 °C	0.900	0.900
$Pdh Tj = 12^{\circ}C$	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
РТО	78 W	78 W
PSB	3 W	3 W
РСК	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