

Subtype WPF 13, WPF 13 cool, WPC 13, WPC 13 cool

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, WPF 13 cool, WPC 13, WPC 13 cool
Registration number	011-1W0021
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.3 kg
Certification Date	23.08.2016

Model WPF 13

Model name	WPF 13
Application	Heating (medium 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	No

Brine/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	13.21 kW	11.99 kW
El input	2.73 kW	3.93 kW
COP	4.83	3.04

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	203 %	142 %
Prated	13.00 kW	12.00 kW
SCOP	5.26	3.75
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	13.20 kW	12.10 kW
COP Tj = -7°C	4.89	3.18
Cdh Tj = -7 °C		
Pdh Tj = +2°C	13.40 kW	12.50 kW
COP Tj = +2°C	5.20	3.69
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.50 kW	12.80 kW
COP Tj = +7°C	5.50	4.08

Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.60 kW	13.10 kW
COP Tj = 12°C	5.84	4.54
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	13.20 kW	12.00 kW
COP Tj = Tbiv	4.84	3.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.84	3.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5186 kWh	6603 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	208 %	147 %
Prated	16.00 kW	15.00 kW
SCOP	5.39	3.88
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.40 kW	12.50 kW
COP Tj = -7°C	5.25	3.68
Cdh Tj = -7 °C		
Pdh Tj = +2°C	13.50 kW	12.80 kW
COP Tj = +2°C	5.59	4.08
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.60 kW	13.00 kW
COP Tj = +7°C	5.78	4.44
Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.60 kW	13.20 kW
COP Tj = 12°C	5.82	4.75
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	13.40 kW	12.40 kW
COP Tj = Tbiv	5.25	3.46

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.40 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.25	3.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.21 kW	3.16 kW
Annual energy consumption Qhe	7507 kWh	9647 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	202 %	141 %
Prated	13.00 kW	12.00 kW
SCOP	5.25	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.20 kW	12.00 kW
COP Tj = +2°C	4.84	3.05
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.30 kW	12.40 kW
COP Tj = +7°C	5.13	3.45
Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.50 kW	12.90 kW
COP Tj = 12°C	5.61	4.23
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	13.20 kW	12.00 kW
COP Tj = Tbiv	4.84	3.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.84	3.05
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3361 kWh	4287 kWh

Model WPF 13 (cool)		
Model name	WPF 13 (cool)	
Application	Heating (medium 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	No	
Brine/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	13.21 kW	11.99 kW
El input	2.73 kW	3.93 kW
COP	4.83	3.04
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
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COP Tj = +2°C	5.20	3.69
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.50 kW	12.80 kW
COP Tj = +7°C	5.50	4.08

Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.60 kW	13.10 kW
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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5186 kWh	6603 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	208 %	147 %
Prated	16.00 kW	15.00 kW
SCOP	5.39	3.88
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.40 kW	12.50 kW
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COP Tj = +7°C	5.78	4.44
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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.21 kW	3.16 kW
Annual energy consumption Qhe	7507 kWh	9647 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	51 dB(A)	51 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	202 %	141 %
Prated	13.00 kW	12.00 kW
SCOP	5.25	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.20 kW	12.00 kW
COP Tj = +2°C	4.84	3.05
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.30 kW	12.40 kW
COP Tj = +7°C	5.13	3.45
Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.50 kW	12.90 kW
COP Tj = 12°C	5.61	4.23
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	13.20 kW	12.00 kW
COP Tj = Tbiv	4.84	3.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.84	3.05
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3361 kWh	4287 kWh

Model WPC 13

Model name	WPC 13
Application	Heating (medium 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	No

Brine/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	13.21 kW	11.99 kW
El input	2.73 kW	3.93 kW
COP	4.83	3.04

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	203 %	142 %
Prated	13.00 kW	12.00 kW
SCOP	5.26	3.75
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COP Tj = -7°C	4.89	3.18
Cdh Tj = -7 °C		
Pdh Tj = +2°C	13.40 kW	12.50 kW
COP Tj = +2°C	5.20	3.69
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.50 kW	12.80 kW
COP Tj = +7°C	5.50	4.08

Cdh Tj = +7 °C		
Pdh Tj = 12°C	13.60 kW	13.10 kW
COP Tj = 12°C	5.84	4.54
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.84	3.05
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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5186 kWh	6603 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	208 %	147 %
Prated	16.00 kW	15.00 kW
SCOP	5.39	3.88
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.40 kW	12.50 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.40 kW	12.00 kW
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WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.21 kW	3.16 kW
Annual energy consumption Qhe	7507 kWh	9647 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	141 %
Prated	13.00 kW	12.00 kW
SCOP	5.25	3.73
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.20 kW	12.00 kW
COP Tj = +2°C	4.84	3.05
Cdh Tj = +2 °C		
Pdh Tj = +7°C	13.30 kW	12.40 kW
COP Tj = +7°C	5.13	3.45
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Poff	0 W	0 W
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PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3361 kWh	4287 kWh

Model WPC 13 (cool)

Model name	WPC 13 (cool)
Application	Heating (medium 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	No

Brine/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	13.21 kW	11.90 kW
El input	2.73 kW	3.93 kW
COP	4.83	3.04

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5186 kWh	6603 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	208 %	147 %
Prated	16.00 kW	15.00 kW
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Supplementary Heater: PSUP	3.21 kW	3.16 kW
Annual energy consumption Qhe	7507 kWh	9647 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

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	Low temperature	Medium temperature
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