

Subtype WPF 16, WPF 16 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 16, WPF 16 cool
Registration number	011-1W0027
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.35 kg
Certification Date	13.10.2016



Model WPF 16, average climates		
Model name	WPF 16, 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	No	
Brine/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	•	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
EN 14311-2 Heating		
·	Low temperature	Medium temperature
Heat output	17.02 kW	15.60 kW
El input	3.75 kW	4.45 kW
СОР	4.54	2.89
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	189 %	134 %
Prated	17.00 kW	16.00 kW
SCOP	4.93	3.54
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7° C	17.00 kW	15.90 kW
$COP Tj = -7^{\circ}C$	4.59	3.01
Pdh Tj = $+2^{\circ}$ C	17.20 kW	16.30 kW
$COP Tj = +2^{\circ}C$	4.88	3.49
$Pdh Tj = +7^{\circ}C$	17.30 kW	16.60 kW
$COP Tj = +7^{\circ}C$	5.16	3.85
Pdh Tj = 12°C	17.40 kW	16.90 kW



COP Tj = 12°C	5.48	4.27
Pdh Tj = Tbiv	17.00 kW	15.80 kW
COP Tj = Tbiv	4.54	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	2.89
Rated airflow rate	0 m³/h	0 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	139 W	139 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	7128 kWh	9198 kWh



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Model WPF 16, all climates		
Model name	WPF 16, all climates	
Application Units	Heating (low temp)	
Climate zone (for heating)	Indoor Warmer Climate, Colder Climate	
Cooling mode application (optional)	n/a	late
Any additional heat sources	n/a	
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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		
	I am haman anatuma	Madium tamanamatum
Heat output	Low temperature 17.02 kW	Medium temperature
El input	3.75 kW	
СОР	4.54	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	189 %	·
Prated	17.00 kW	
SCOP	4.93	
Tbiv	-10 °C	
TOL	-20 °C	
Pdh Tj = -7° C	17.00 kW	
$COP Tj = -7^{\circ}C$	4.59	
Pdh Tj = $+2^{\circ}$ C	17.20 kW	
$COP Tj = +2^{\circ}C$	4.88	
Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	17.30 kW 5.16	
Pdh Tj = 12° C	17.40 kW	
run 1j – 12 C	17.4U KVV	



COP Tj = 12°C	5.48	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m³/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	0.00 kW	
Annual energy consumption Qhe	7128 kWh	
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	<u> </u>
Sound power level outdoor	0 dB(A)	
EN 14825 Colder Climate		
EN 14825 Colder Climate	Low temperature	Medium temperature
EN 14825 Colder Climate	Low temperature 194 %	Medium temperature
		Medium temperature
ης	194 %	Medium temperature
ηs Prated	194 % 21.00 kW	Medium temperature
ηs Prated SCOP	194 % 21.00 kW 5.06	Medium temperature
ηs Prated SCOP Tbiv	194 % 21.00 kW 5.06 -15 °C	Medium temperature
ηs Prated SCOP Tbiv TOL	194 % 21.00 kW 5.06 -15 °C -22 °C	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW	Medium temperature
ns Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +2°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24	Medium temperature
η s Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW	Medium temperature
η s Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = +7°C COP Tj = +7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = 12°C COP Tj = 12°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW	Medium temperature
η s Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = +7°C COP Tj = +7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46	Medium temperature
ns Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = 12°C COP Tj = 12°C Pdh Tj = Tbiv COP Tj = Tbiv Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46 17.20 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = 12°C Pdh Tj = 12°C Pdh Tj = Tbiv COP Tj = Tbiv	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46 17.20 kW 4.92	Medium temperature



Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	4.07 kW
Annual energy consumption Qhe	10274 kWh

EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	

	33 3.2 (7.1)	
Sound power level outdoor	0 dB(A)	
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
nc	188 %	Medidili temperature
ηs Prated	17.00 kW	
SCOP	4.91	
	4.91 2 °C	
Tbiv		
TOL	2 °C	
Pdh Tj = -7° C	0.00 kW	
$COP Tj = -7^{\circ}C$	0.00	
Pdh Tj = $+2^{\circ}$ C	17.00 kW	
$COP Tj = +2^{\circ}C$	4.54	
Pdh Tj = $+7^{\circ}$ C	17.20 kW	
$COP Tj = +7^{\circ}C$	4.81	
Pdh Tj = 12° C	17.40 kW	
$COP Tj = 12^{\circ}C$	5.26	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m³/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	



Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh



Model WPF 16 cool, average climates			
Model name	WPF 16 cool, average climate	es	
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	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			
EN 14311-2 Heading			
	Low temperature	Medium temperature	
Heat output	17.02 kW	15.60 kW	
El input	3.75 kW	4.45 kW	
COP	4.54	2.89	
EN 12102-1 Average Climate			
	Low temperature	Medium temperature	
Sound power level indoor	55 dB(A)	55 dB(A)	
Sound power level outdoor	0 dB(A)	0 dB(A)	
EN 14825 Average Climate			
	Low temperature	Medium temperature	
ης	189 %	134 %	
Prated	17.00 kW	16.00 kW	
SCOP	4.93	3.54	
Tbiv	-10 °C	-10 °C	
TOL	-20 °C	-10 °C	
Pdh Tj = -7° C	17.00 kW	15.90 kW	
$COP Tj = -7^{\circ}C$	4.59	3.01	
Pdh Tj = $+2^{\circ}$ C	17.20 kW	16.30 kW	
$COP Tj = +2^{\circ}C$	4.88	3.49	
Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	17.30 kW 5.16	16.60 kW 3.85	
Pdh Tj = 12°C	17.40 kW	16.90 kW	
run ij – 12 C	17.40 KW	TO:30 KAA	



COP Tj = 12°C	5.48	4.27
Pdh Tj = Tbiv	17.00 kW	15.80 kW
COP Tj = Tbiv	4.54	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	2.89
Rated airflow rate	0 m³/h	0 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	139 W	139 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	7128 kWh	9198 kWh



Model WPF 16 cool, all climates		
Model name	WPF 16 cool, 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	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		
Live 1311 2 Fredering		
Hank authorit	Low temperature	Medium temperature
Heat output	17.02 kW 3.75 kW	
El input COP	4.54	
COI	7.57	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	·
Sound power level outdoor	0 dB(A)	
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	189 %	2
Prated	17.00 kW	
SCOP	4.93	
Tbiv	-10 °C	
TOL	-20 °C	
Pdh Tj = -7° C	17.00 kW	
COP Tj = -7 °C	4.59	
$Pdh Tj = +2^{\circ}C$	17.20 kW	
$COP Tj = +2^{\circ}C$	4.88	
Pdh Tj = $+7^{\circ}$ C	17.30 kW	
$COP Tj = +7^{\circ}C$	5.16	
Pdh Tj = 12° C	17.40 kW	



COP Tj = 12°C	5.48	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m³/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	
Supplementary Heater: Type of energy	Electricity	
input		
Supplementary Heater: PSUP	0.00 kW	
Annual energy consumption Qhe	7128 kWh	
EN 12102 1 C C'		
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	
EN 14825 Colder Climate		
EN 14825 Colder Climate	Low temperature	Medium temperature
EN 14825 Colder Climate ηs	Low temperature 194 %	Medium temperature
		Medium temperature
ης	194 %	Medium temperature
ηs Prated	194 % 21.00 kW	Medium temperature
ηs Prated SCOP	194 % 21.00 kW 5.06	Medium temperature
ηs Prated SCOP Tbiv	194 % 21.00 kW 5.06 -15 °C	Medium temperature
ηs Prated SCOP Tbiv TOL	194 % 21.00 kW 5.06 -15 °C -22 °C	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +2°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = +7°C Pdh Tj = 12°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = 12°C COP Tj = 12°C	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = 12°C Pdh Tj = 12°C Pdh Tj = Tbiv	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46 17.20 kW	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C Pdh Tj = 12°C Pdh Tj = 12°C Pdh Tj = 12°C Pdh Tj = Tbiv COP Tj = Tbiv Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46 17.20 kW 4.92	Medium temperature
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Pdh Tj = +2°C COP Tj = +7°C Pdh Tj = 12°C COP Tj = 12°C Pdh Tj = 12°C COP Tj = Tbiv COP Tj = Tbiv Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL	194 % 21.00 kW 5.06 -15 °C -22 °C 17.30 kW 5.02 17.30 kW 5.24 17.40 kW 5.43 17.40 kW 5.46 17.20 kW 4.92 17.20 kW	Medium temperature



Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	4.07 kW
Annual energy consumption Qhe	10274 kWh

EN 12102-1	Warmer Climate	

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ης	188 %	
Prated	17.00 kW	
SCOP	4.91	
Tbiv	2 °C	
TOL	2 °C	
Pdh Tj = -7° C	0.00 kW	
$COP Tj = -7^{\circ}C$	0.00	
Pdh Tj = $+2$ °C	17.00 kW	
$COP Tj = +2^{\circ}C$	4.54	
Pdh Tj = $+7^{\circ}$ C	17.20 kW	
$COP Tj = +7^{\circ}C$	4.81	
Pdh Tj = 12° C	17.40 kW	
COP Tj = 12°C	5.26	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m³/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	



Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh