

Summary of	WPF 16, WPF 16 cool	Reg. No.	011-1W0027
Certificate Holder	-	-	
Name	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH	
Subtype title	WPF 16, WPF 16 cool	WPF 16, WPF 16 cool	
Heat Pump Type	Brine/Water		
Refrigerant	R410a	R410a	
Mass Of Refrigerant	2.35 kg	2.35 kg	
Certification Date	13.10.2016		



Model: WPF 16, average climates

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2			
	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	
Indoor water flow rate	2.91 m³/h	2.91 m³/h	

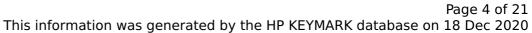
Average Climate



EN 12102-1			
	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		
	Low temperature	Medium temperature
η_{s}	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°C	4.59	3.01
Pdh Tj = +2°C	17.20 kW	16.30 kW
COP Tj = +2°C	4.88	3.49
Pdh Tj = +7°C	17.30 kW	16.60 kW
COP Tj = +7°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

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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	0.90	0.90
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	139 W	139 W
PSB	9 W	9 W
PCK	o w	o 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

Warmer Climate

Colder Climate



Model: WPF 16, all climates

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
Low temperature		
Heat output	17.02 kW	
El input	3.75 kW	
СОР	4.54	
Indoor water flow rate	2.91 m³/h	

Average Climate



EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low temperature
η_{s}	189 %
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°C	17.20 kW
COP Tj = +2°C	4.88
Pdh Tj = +7°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

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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	0.90
WTOL	65 °C
Poff	o w
РТО	139 W
PSB	9 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	7128 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low temperature



η_{s}	188 %
Prated	17.00 kW
SCOP	4.91
Tbiv	2 °C
TOL	2 °C
Pdh Tj = -7°C	0.00 kW
COP Tj = -7°C	0.00
Pdh Tj = +2°C	17.00 kW
COP Tj = +2°C	4.54
Pdh Tj = +7°C	17.20 kW
COP Tj = +7°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	0.90
WTOL	65 °C



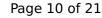


Poff	o w
РТО	139 W
PSB	9 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh

Colder Climate

EN 12102-1		
	Low temperature	
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825	
	Low temperature
η_{S}	194 %
Prated	21.00 kW
SCOP	5.06
Tbiv	-15 °C
TOL	-22 °C
	'





Pdh Tj = -7 °C	17.30 kW
COP Tj = -7°C	5.02
Pdh Tj = $+2$ °C	17.30 kW
COP Tj = +2°C	5.24
Pdh Tj = $+7^{\circ}$ C	17.40 kW
$COPTj = +7^{\circ}C$	5.43
Pdh Tj = 12°C	17.40 kW
COP Tj = 12°C	5.46
Pdh Tj = Tbiv	17.20 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
Rated airflow rate	0 m³/h
Cdh	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



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Annual energy consumption Qhe	10274 kWh



Model: WPF 16 cool, average climates

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	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
Indoor water flow rate	2.91 m³/h	2.91 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

CEN heat pump KEYMARK

η _s 1 Prated 1 SCOP 4 Tbiv -	Low temperature	Medium temperature
Prated 1 SCOP 4 Tbiv -	189 %	
SCOP 4 Tbiv - TOL -		134 %
Tbiv -	17.00 kW	16.00 kW
TOL -	4.93	3.54
	-10 °C	-10 °C
Pdh Tj = -7° C	-20 °C	-10 °C
	17.00 kW	15.90 kW
$COP Tj = -7^{\circ}C$	4.59	3.01
Pdh Tj = $+2$ °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 1	17.40 kW	16.90 kW
COP Tj = 12°C 5	5.48	4.27
Pdh Tj = Tbiv	17.00 kW	15.80 kW

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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	0.90	0.90
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	139 W	139 W
PSB	9 W	9 W
PCK	0 W	o 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

Warmer Climate

Colder Climate



Model: WPF 16 cool, all climates

Ger	neral Data
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 1451	11-2
	Low temperature
Heat output	17.02 kW
El input	3.75 kW
СОР	4.54
Indoor water flow rate	2.91 m³/h

Average Climate



EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)
Sound power level outdoor	0 dB(A)

EN 1482	25
	Low temperature
η_{s}	189 %
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°C	17.20 kW
COP Tj = +2°C	4.88
Pdh Tj = +7°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

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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	0.90
WTOL	65 °C
Poff	o w
PTO	139 W
PSB	9 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	7128 kWh

Warmer Climate

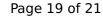
EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low temperature





s	188 %
rated	17.00 kW
СОР	4.91
biv	2 °C
OL	2 °C
dh Tj = -7°C	0.00 kW
OP Tj = -7°C	0.00
dh Tj = +2°C	17.00 kW
$OP Tj = +2^{\circ}C$	4.54
dh Tj = +7°C	17.20 kW
$OP Tj = +7^{\circ}C$	4.81
dh Tj = 12°C	17.40 kW
OP Tj = 12°C	5.26
dh Tj = Tbiv	17.00 kW
OP Tj = Tbiv	4.54
dh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW
OP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54
ated airflow rate	0 m³/h
dh	0.90
TOL	65 °C





Poff	o w
РТО	139 W
PSB	9 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh

Colder Climate

EN 12102-1		
	Low temperature	
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825		
	Low temperature	
η_{S}	194 %	
Prated	21.00 kW	
SCOP	5.06	
Tbiv	-15 °C	
TOL	-22 °C	
	'	





This information was generated by the fir RETA	
Pdh Tj = -7°C	17.30 kW
COP Tj = -7°C	5.02
Pdh Tj = +2°C	17.30 kW
$COPTj = +2^{\circ}C$	5.24
Pdh Tj = $+7^{\circ}$ C	17.40 kW
$COPTj = +7^{\circ}C$	5.43
Pdh Tj = 12°C	17.40 kW
COP Tj = 12°C	5.46
Pdh Tj = Tbiv	17.20 kW
COP Tj = Tbiv	4.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92
Rated airflow rate	0 m³/h
Cdh	0.90
WTOL	65 °C
Poff	0 W
РТО	139 W
PSB	9 W
РСК	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	4.07 kW



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Annual energy consumption Qhe	10274 kWh
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