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Summary of	WPF 16 basic	Reg. No.	011-1W0189
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 Konformitätsbewertung mbH		
Subtype title	WPF 16 basic		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.6 kg		
Certification Date	04.09.2019		

Model: WPF 16 basic, all climates

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	117 %	117 %
Prated	17.00 kW	16.00 kW
SCOP	4.80	3.18
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.70 kW	15.70 kW
COP Tj = -7°C	4.22	2.59
Cdh	0.90	0.90
Pdh Tj = +2°C	16.80 kW	16.10 kW
COP Tj = +2°C	4.54	3.06
Cdh	0.90	0.90

Pdh Tj = +7°C	16.90 kW	16.30 kW
COP Tj = +7°C	4.87	3.43
Cdh	0.90	0.90
Pdh Tj = 12°C	17.00 kW	16.50 kW
COP Tj = 12°C	5.26	3.88
Cdh	0.90	0.90
Pdh Tj = Tbiv	16.60 kW	15.60 kW
COP Tj = Tbiv	4.16	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.60 kW	15.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.48
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	7440 kWh	10353 kWh

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.64 kW	15.62 kW
El input	4.00 kW	6.34 kW
COP	4.35	2.46
Indoor water flow rate	2.81 m³/h	2.81 m³/h

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

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	178 %	117 %
Prated	17.00 kW	16.00 kW
SCOP	4.98	3.20
Tbiv	2 °C	2 °C
TOL	-5 °C	-5 °C

Pdh Tj = +2°C	16.60 kW	15.60 kW
COP Tj = +2°C	4.16	2.48
Cdh	0.90	0.90
Pdh Tj = +7°C	16.80 kW	15.90 kW
COP Tj = +7°C	4.47	3.84
Cdh	0.90	0.90
Pdh Tj = 12°C	16.90 kW	16.40 kW
COP Tj = 12°C	5.00	3.57
Cdh	0.90	0.90
Pdh Tj = Tbiv	16.60 kW	15.60 kW
COP Tj = Tbiv	4.16	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.60 kW	15.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.48
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4778 kWh	6678 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	65 dB(A)

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	122 %
Prated	21.00 kW	20.00 kW
SCOP	5.08	3.30
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	16.80 kW	16.10 kW
COP Tj = -7°C	4.71	3.04
Cdh	0.90	0.90
Pdh Tj = +2°C	16.90 kW	16.30 kW
COP Tj = +2°C	4.97	3.42
Cdh	0.90	0.90
Pdh Tj = +7°C	17.00 kW	16.50 kW
COP Tj = +7°C	5.20	3.79
Cdh	0.90	0.90

Pdh Tj = 12°C	17.00 kW	16.60 kW
COP Tj = 12°C	5.23	4.10
Cdh	0.90	0.90
Pdh Tj = Tbiv	16.80 kW	15.90 kW
COP Tj = Tbiv	4.60	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.60 kW	15.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.16	2.48
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	3.94 kW	3.90 kW
Annual energy consumption Qhe	10600 kWh	14861 kWh
Pdh Tj = -15°C (if TOL<-20°C)	16.80	15.90
COP Tj = -15°C (if TOL<-20°C)	4.60	2.84
Cdh	0.90	0.90

EN 12102-1	
	Low temperature
Sound power level indoor	65 dB(A)

Model: WPF 16 basic, average climates

General Data	
Power supply	1x230V 50Hz

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	65 dB(A)	65 dB(A)

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	Low temperature	**Medium temperature**
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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 Qhe	7440 kWh	10353 kWh

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.64 kW	15.62 kW
El input	4.00 kW	6.34 kW
COP	4.35	2.46
Indoor water flow rate	2.81 m³/h	2.81 m³/h

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