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Login

Summary of	WPF 20	Reg. No.	011-1W0275
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 20		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	5.99 kg		
Certification Date	24.01.2019		

Model: WPF 20

Configure model	
Model name	WPF 20
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	21.50 kW	20.10 kW
El input	4.61 kW	7.08 kW
COP	4.66	3.16

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	188 %	128 %
Prated	22.00 kW	20.00 kW
SCOP	4.90	3.40
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	21.50 kW	20.10 kW
COP Tj = +2°C	4.66	2.84
Pdh Tj = +7°C	21.70 kW	20.50 kW
COP Tj = +7°C	4.99	3.24
Pdh Tj = 12°C	21.90 kW	21.10 kW
COP Tj = 12°C	5.54	4.03
Pdh Tj = Tbiv	21.50 kW	20.10 kW
COP Tj = Tbiv	4.66	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.50 kW	20.10 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.66	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	74 W	74 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5871 kWh	7884 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	201 %	137 %
Prated	27.00 kW	25.00 kW

SCOP	5.23	3.62
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	21.80 kW	20.70 kW
COP Tj = -7°C	5.24	3.46
Pdh Tj = +2°C	21.90 kW	21.00 kW
COP Tj = +2°C	5.51	3.87
Pdh Tj = +7°C	21.90 kW	21.30 kW
COP Tj = +7°C	5.74	4.26
Pdh Tj = 12°C	22.00 kW	21.50 kW
COP Tj = 12°C	5.78	4.60
Pdh Tj = Tbiv	21.70 kW	20.50 kW
COP Tj = Tbiv	5.12	3.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.50 kW	21.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.66	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	74 W	74 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	5.05 kW
Annual energy consumption Qhe	12535 kWh	17067 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	192 %	131 %
Prated	22.00 kW	20.00 kW
SCOP	5.00	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	21.50 kW	20.20 kW
COP Tj = -7°C	4.72	2.96
Pdh Tj = +2°C	21.70 kW	20.70 kW
COP Tj = +2°C	5.06	3.48

Pdh Tj = +7°C	21.80 kW	21.00 kW
COP Tj = +7°C	5.41	3.88
Pdh Tj = 12°C	22.00 kW	21.30 kW
COP Tj = 12°C	5.80	4.36
Pdh Tj = Tbiv	21.50 kW	20.10 kW
COP Tj = Tbiv	4.66	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	21.50 kW	20.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.66	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	74 W	74 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	8904 kWh	11988 kWh