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Login

Summary of	WPF 52	Reg. No.	011-1W0186
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 52		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	12.5 kg		
Certification Date	04.09.2019		

Model: WPF 52

Configure model	
Model name	WPF 52
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	55.83 kW	52.18 kW
El input	11.61 kW	17.45 kW
COP	4.81	2.99

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	199 %	138 %
Prated	56.00 kW	52.00 kW
SCOP	5.18	3.65
Tbiv	2 °C	2 °C
TOL	0 °C	0 °C
Pdh Tj = +2°C	55.80 kW	55.20 kW
COP Tj = +2°C	4.81	2.99
Pdh Tj = +7°C	56.20 kW	53.30 kW
COP Tj = +7°C	5.12	3.39
Pdh Tj = 12°C	56.80 kW	54.90 kW
COP Tj = 12°C	5.65	4.19
Pdh Tj = Tbiv	55.80 kW	52.20 kW
COP Tj = Tbiv	4.81	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
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	99 W	99 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	14419 kWh	19157 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	207 %	144 %
Prated	69.00 kW	65.00 kW

SCOP	5.38	3.80
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	56.50 kW	53.80 kW
COP Tj = -7°C	5.36	3.62
Pdh Tj = +2°C	56.80 kW	54.60 kW
COP Tj = +2°C	5.63	4.03
Pdh Tj = +7°C	57.00 kW	55.30 kW
COP Tj = +7°C	5.84	4.42
Pdh Tj = 12°C	57.00 kW	55.70 kW
COP Tj = 12°C	5.88	4.74
Pdh Tj = Tbiv	56.40 kW	53.30 kW
COP Tj = Tbiv	5.25	3.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
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	99 W	99 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	13.28 kW	13.12 kW
Annual energy consumption Qhe	31644 kWh	42330 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	200 %	138 %
Prated	56.00 kW	52.00 kW
SCOP	5.20	3.65
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	55.90 kW	52.50 kW
COP Tj = -7°C	4.87	3.12
Pdh Tj = +2°C	56.30 kW	53.80 kW
COP Tj = +2°C	5.20	3.64

Pdh Tj = +7°C	56.70 kW	54.60 kW
COP Tj = +7°C	5.53	4.03
Pdh Tj = 12°C	57.00 kW	55.40 kW
COP Tj = 12°C	5.90	4.52
Pdh Tj = Tbiv	55.80 kW	52.20 kW
COP Tj = Tbiv	4.81	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
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	99 W	99 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	22209 kWh	29469 kWh