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Summary of	WPF 13 basic	Reg. No.	011-1W0012
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 13 basic		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.5 kg		
Certification Date	25.08.2016		

Model: WPF 13 basic, all climates

Configure model	
Model name	WPF 13 basic, all climates
Application	Heating (low temp)
Units	Indoor
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
Heat output	12.59 kW
El input	2.85 kW
COP	4.42

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 12102-1

	Low temperature
Sound power level indoor	60 dB(A)

EN 14825

	Low temperature
η_s	189 %
Prated	13.00 kW
SCOP	4.94
Tbiv	2 °C
TOL	0 °C
Pdh Tj = +2°C	12.60 kW
COP Tj = +2°C	4.42
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	12.70 kW
COP Tj = +7°C	4.76
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	12.90 kW
COP Tj = 12°C	5.34
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	12.60 kW

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COP $T_j = T_{biv}$	4.42
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	12.60 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.42
WTOL	60 °C
P _{off}	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q _{he}	3407 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	60 dB(A)

EN 14825	
	Low temperature
η_s	196 %
Prated	16.00 kW

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SCOP	5.10
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	12.80 kW
COP Tj = -7°C	5.02
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	12.80 kW
COP Tj = +2°C	5.31
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	12.90 kW
COP Tj = +7°C	5.56
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	12.90 kW
COP Tj = 12°C	5.60
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	12.70 kW
COP Tj = Tbiv	4.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.90
WTOL	60 °C
Poff	0 W

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PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	3.02 kW
Annual energy consumption Q _{he}	7542 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	12.70
COP T _j = -15°C (if TOL<-20°C)	4.90
C _{dh} T _j = -15 °C	0.90

Average Climate

EN 12102-1	
	Low temperature
Sound power level indoor	60 dB(A)

EN 14825	
	Low temperature
η_s	189 %
Prated	13.00 kW
SCOP	4.92
T _{biv}	-10 °C

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TOL	-20 °C
Pdh Tj = -7°C	12.60 kW
COP Tj = -7°C	4.48
Cdh Tj = -7 °C	0.90
Pdh Tj = +2°C	12.70 kW
COP Tj = +2°C	4.84
Cdh Tj = +2 °C	0.90
Pdh Tj = +7°C	12.80 kW
COP Tj = +7°C	5.21
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	12.90 kW
COP Tj = 12°C	5.63
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	12.60 kW
COP Tj = Tbiv	4.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W

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PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q _{he}	5285 kWh

Model: WPF 13 basic, average climates

Configure model	
Model name	WPF 13 basic, average climates
Application	Heating (medium temp)
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.59 kW	11.60 kW
El input	2.85 kW	4.52 kW
COP	4.42	2.57

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	189 %	122 %
Prated	13.00 kW	12.00 kW
SCOP	4.92	3.26
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	12.60 kW	11.70 kW
COP Tj = -7°C	4.48	2.69
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	12.70 kW	12.00 kW
COP Tj = +2°C	4.84	3.20
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	12.80 kW	12.30 kW
COP Tj = +7°C	5.21	3.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	12.90 kW	12.50 kW

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COP Tj = 12°C	5.63	4.09
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.60 kW	11.60 kW
COP Tj = Tbiv	4.42	2.57
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	11.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.42	2.57
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	5285 kWh	7350 kWh