Login

Summary of	WPF 40	Reg. No.	011-1W0277
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 40		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	10 kg		
Certification Date	24.01.2019		

Model: WPF 40

Configure model	
Model name	WPF 40
Application	Heating (medium 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	**Medium temperature**
Heat output	43.10 kW	40.20 kW
El input	9.23 kW	17.45 kW
COP	4.67	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)

EN 14825

	Low temperature	Medium temperature
η_s	194 %	133 %
Prated	43.00 kW	40.00 kW
SCOP	5.05	3.53
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	43.10 kW	40.20 kW
COP Tj = +2°C	4.67	2.88
Pdh Tj = +7°C	43.40 kW	41.10 kW
COP Tj = +7°C	4.98	3.27
Pdh Tj = 12°C	43.90 kW	42.40 kW
COP Tj = 12°C	5.51	4.05
Pdh Tj = Tbiv	43.10 kW	40.20 kW
COP Tj = Tbiv	4.67	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88

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	11415 kWh	15248 kWh

Colder Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	202 %	139 %
Prated	53.00 kW	50.00 kW
SCOP	5.25	3.68
Tbiv	-15 °C	-15 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	43.60 kW	41.50 kW
COP Tj = -7°C	5.22	3.49
Pdh Tj = +2°C	43.90 kW	42.10 kW
COP Tj = +2°C	5.48	3.90
Pdh Tj = +7°C	44.00 kW	42.60 kW
COP Tj = +7°C	5.70	4.28
Pdh Tj = 12°C	44.00 kW	43.00 kW
COP Tj = 12°C	5.73	4.60
Pdh Tj = Tbiv	43.50 kW	41.10 kW
COP Tj = Tbiv	5.11	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88
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	10.27 kW	10.14 kW

Annual energy consumption Qhe	25071 kWh	33723 kWh

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	194 %	133 %
Prated	43.00 kW	40.00 kW
SCOP	5.05	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	43.20 kW	40.50 kW
COP Tj = -7°C	4.73	3.00
Pdh Tj = +2°C	43.50 kW	41.50 kW
COP Tj = +2°C	5.05	3.51
Pdh Tj = +7°C	43.80 kW	42.10 kW
COP Tj = +7°C	5.38	3.90
Pdh Tj = 12°C	44.10 kW	42.80 kW

COP Tj = 12°C	5.76	4.38
Pdh Tj = Tbiv	43.10 kW	40.20 kW
COP Tj = Tbiv	4.67	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88
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	17606 kWh	23479 kWh