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Summary of	WPF 35	Reg. No.	011-1W0029
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 35		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	10 kg		
Certification Date	19.09.2016		
Testing basis	Heat pump scheme rules KEYMARK Rev 1.1		

Model: WPF 35

Configure model	
Model name	WPF 35
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	37.70 kW	34.49 kW
El input	7.98 kW	11.47 kW
COP	4.72	3.01

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
η_s	199 %	132 %
Prated	38.00 kW	34.00 kW
SCOP	5.17	3.50
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = -7°C	0.00 kW	0.00 kW
COP Tj = -7°C	0.00	0.00
Pdh Tj = +2°C	38.00 kW	34.10 kW
COP Tj = +2°C	4.78	2.82
Pdh Tj = +7°C	38.50 kW	35.20 kW
COP Tj = +7°C	5.12	3.24
Pdh Tj = 12°C	39.10 kW	37.00 kW
COP Tj = 12°C	5.69	4.08
Pdh Tj = Tbiv	38.00 kW	34.10 kW

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COP $T_j = T_{biv}$	4.78	2.82
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	38.00 kW	34.10 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	4.78	2.82
Rated airflow rate	0 m ³ /h	0 m ³ /h
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	7 W	74 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	9834 kWh	13033 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	208 %	139 %
Prated	47.00 kW	43.00 kW
SCOP	5.41	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	38.80 kW	35.80 kW
COP Tj = -7°C	5.38	3.48
Pdh Tj = +2°C	39.10 kW	36.70 kW
COP Tj = +2°C	5.67	3.91
Pdh Tj = +7°C	39.30 kW	37.40 kW
COP Tj = +7°C	5.90	4.32
Pdh Tj = 12°C	39.30 kW	37.90 kW
COP Tj = 12°C	5.94	4.66
Pdh Tj = Tbiv	38.60 kW	35.30 kW
COP Tj = Tbiv	5.26	3.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.60 kW	34.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.26	2.82
Rated airflow rate	0 m³/h	0 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

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	9.32 kW	9.15 kW
Annual energy consumption Qhe	21594 kWh	28986 kWh

Average Climate

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

EN 14825		
	Low temperature	Medium temperature
η_s	200 %	133 %
Prated	38.00 kW	34.00 kW
SCOP	5.19	3.52
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = -7°C	38.10 kW	34.50 kW
COP Tj = -7°C	4.84	2.95
Pdh Tj = +2°C	38.60 kW	35.80 kW
COP Tj = +2°C	5.20	3.50
Pdh Tj = +7°C	39.00 kW	36.70 kW
COP Tj = +7°C	5.56	2.92
Pdh Tj = 12°C	39.30 kW	37.50 kW
COP Tj = 12°C	5.96	4.42
Pdh Tj = Tbiv	38.00 kW	34.10 kW
COP Tj = Tbiv	4.75	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.00 kW	34.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.78	2.82
Rated airflow rate	0 m³/h	0 m³/h
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

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q _{he}	15136 kWh	20029 kWh
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