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

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

Average Climate

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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
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

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COP $T_j = T_{biv}$	4.75	2.82
Pdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ 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
Cdh $T_j = TOL$ or Pdh $T_j = T_{designh}$ if $TOL < T_{designh}$	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	15136 kWh	20029 kWh

Warmer 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

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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
COP Tj = Tbiv	4.78	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

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Poff	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 Qhe	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
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

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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
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

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Annual energy consumption Q _{he}	21594 kWh	28986 kWh
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