Subtype WPF 16, WPF 16 cool

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
Address	Dr. Stiebel Straße 33
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City	Holzminden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	WPF 16, WPF 16 cool
Registration number	011-1W0027
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.35 kg
Certification Date	13.10.2016

Model WPF 16, average climates

Model name	WPF 16, average climates
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.02 kW	15.60 kW
El input	3.75 kW	4.45 kW
COP	4.54	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	134 %
Prated	17.00 kW	16.00 kW
SCOP	4.93	3.54
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	17.00 kW	15.90 kW
COP Tj = -7°C	4.59	3.01
Pdh Tj = +2°C	17.20 kW	16.30 kW
COP Tj = +2°C	4.88	3.49
Pdh Tj = +7°C	17.30 kW	16.60 kW
COP Tj = +7°C	5.16	3.85
Pdh Tj = 12°C	17.40 kW	16.90 kW

COP Tj = 12°C	5.48	4.27
Pdh Tj = Tbiv	17.00 kW	15.80 kW
COP Tj = Tbiv	4.54	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	2.89
Rated airflow rate	0 m^3/h	0 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	139 W	139 W
PSB	9 W	9 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	7128 kWh	9198 kWh

Model WPF 16, all climates	
Model name	WPF 16, all climates
Application	Heating (low temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.02 kW	
El input	3.75 kW	
COP	4.54	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	
Prated	17.00 kW	
SCOP	4.93	
Tbiv	-10 °C	
TOL	-20 °C	
Pdh Tj = -7°C	17.00 kW	
COP Tj = -7°C	4.59	
Pdh Tj = +2°C	17.20 kW	
COP Tj = +2°C	4.88	
Pdh Tj = +7°C	17.30 kW	
COP Tj = +7°C	5.16	
Pdh Tj = 12°C	17.40 kW	

COP Tj = 12°C	5.48
Pdh Tj = Tbiv	17.00 kW
COP Tj = Tbiv	4.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54
Rated airflow rate	0 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	7128 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	194 %	
Prated	21.00 kW	
SCOP	5.06	
Tbiv	-15 °C	
TOL	-22 °C	
Pdh Tj = -7°C	17.30 kW	
COP Tj = -7°C	5.02	
Pdh Tj = +2°C	17.30 kW	
COP Tj = +2°C	5.24	
Pdh Tj = +7°C	17.40 kW	
COP Tj = +7°C	5.43	
Pdh Tj = 12°C	17.40 kW	
COP Tj = 12°C	5.46	
Pdh Tj = Tbiv	17.20 kW	
COP Tj = Tbiv	4.92	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92	
Rated airflow rate	0 m³/h	

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	4.07 kW
Annual energy consumption Qhe	10274 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	188 %	
Prated	17.00 kW	
SCOP	4.91	
Tbiv	2 °C	
TOL	2 °C	
Pdh Tj = -7°C	0.00 kW	
COP Tj = -7°C	0.00	
Pdh Tj = +2°C	17.00 kW	
COP Tj = +2°C	4.54	
Pdh Tj = +7°C	17.20 kW	
COP Tj = +7°C	4.81	
Pdh Tj = 12°C	17.40 kW	
COP Tj = 12°C	5.26	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m^3/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	

Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh

Model WPF 16 cool, average climates

Model name	WPF 16 cool, average climates
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.02 kW	15.60 kW
El input	3.75 kW	4.45 kW
COP	4.54	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	134 %
Prated	17.00 kW	16.00 kW
SCOP	4.93	3.54
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	17.00 kW	15.90 kW
COP Tj = -7°C	4.59	3.01
Pdh Tj = +2°C	17.20 kW	16.30 kW
COP Tj = +2°C	4.88	3.49
Pdh Tj = +7°C	17.30 kW	16.60 kW
COP Tj = +7°C	5.16	3.85
Pdh Tj = 12°C	17.40 kW	16.90 kW

COP Tj = 12°C	5.48	4.27
Pdh Tj = Tbiv	17.00 kW	15.80 kW
COP Tj = Tbiv	4.54	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	2.89
Rated airflow rate	0 m^3/h	0 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	139 W	139 W
PSB	9 W	9 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	7128 kWh	9198 kWh

Model WPF 16 cool, all climates	
Model name	WPF 16 cool, all climates
Application	Heating (low temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.02 kW	
El input	3.75 kW	
COP	4.54	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	189 %	
Prated	17.00 kW	
SCOP	4.93	
Tbiv	-10 °C	
TOL	-20 °C	
Pdh Tj = -7°C	17.00 kW	
COP Tj = -7°C	4.59	
Pdh Tj = +2°C	17.20 kW	
COP Tj = +2°C	4.88	
Pdh Tj = +7°C	17.30 kW	
COP Tj = +7°C	5.16	
Pdh Tj = 12°C	17.40 kW	

COP Tj = 12°C	5.48
Pdh Tj = Tbiv	17.00 kW
COP Tj = Tbiv	4.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54
Rated airflow rate	0 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	7128 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	194 %	
Prated	21.00 kW	
SCOP	5.06	
Tbiv	-15 °C	
TOL	-22 °C	
Pdh Tj = -7°C	17.30 kW	
COP Tj = -7°C	5.02	
Pdh Tj = +2°C	17.30 kW	
COP Tj = +2°C	5.24	
Pdh Tj = +7°C	17.40 kW	
COP Tj = +7°C	5.43	
Pdh Tj = 12°C	17.40 kW	
COP Tj = 12°C	5.46	
Pdh Tj = Tbiv	17.20 kW	
COP Tj = Tbiv	4.92	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.92	
Rated airflow rate	0 m³/h	

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	65 °C
Poff	0 W
PTO	139 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	4.07 kW
Annual energy consumption Qhe	10274 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	
Sound power level outdoor	0 dB(A)	

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	188 %	
Prated	17.00 kW	
SCOP	4.91	
Tbiv	2 °C	
TOL	2 °C	
Pdh Tj = -7°C	0.00 kW	
COP Tj = -7°C	0.00	
Pdh Tj = +2°C	17.00 kW	
COP Tj = +2°C	4.54	
Pdh Tj = +7°C	17.20 kW	
COP Tj = +7°C	4.81	
Pdh Tj = 12°C	17.40 kW	
COP Tj = 12°C	5.26	
Pdh Tj = Tbiv	17.00 kW	
COP Tj = Tbiv	4.54	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	
Rated airflow rate	0 m^3/h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	
WTOL	65 °C	
Poff	0 W	
PTO	139 W	
PSB	9 W	
PCK	0 W	

Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4635 kWh