

## Subtype WPF 27 HT

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
Address	Dr. Stiebel Straße 33
ZIP	37603
City	Holzminden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	WPF 27 HT
Registration number	011-1W0185
Heat Pump Type	Brine/Water
Refrigerant	R134a
Mass of Refrigerant	6 kg
Certification Date	04.09.2019

Model WPF 27 HT		
Model name	WPF 27 HT	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
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	27.41 kW	25.10 kW
El input	6.32 kW	8.49 kW
COP	4.34	2.95
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	64 dB(A)	64 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ηs	175 %	131 %
Prated	27.00 kW	25.00 kW
SCOP	4.58	4.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	27.50 kW	25.30 kW
COP Tj = -7°C	4.38	3.06
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	27.70 kW	26.10 kW
COP Tj = +2°C	4.59	3.48
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	27.90 kW	26.60 kW

COP Tj = +7°C	4.80	3.78
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	28.20 kW	27.10 kW
COP Tj = 12°C	5.03	4.12
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	27.40 kW	25.10 kW
COP Tj = Tbiv	4.34	2.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	27.40 kW	25.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.96
WTOL	75 °C	75 °C
Poff	0 W	0 W
PTO	3 W	3 W
PSB	3 W	3 W
PCK	46 W	46 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	12359 kWh	14872 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	64 dB(A)	64 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	180 %	136 %
Prated	34.00 kW	32.00 kW
SCOP	4.58	4.58
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	27.80 kW	26.10 kW
COP Tj = -7°C	4.70	3.46
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	28.00 kW	26.60 kW
COP Tj = +2°C	4.86	3.77
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	28.10 kW	27.00 kW
COP Tj = +7°C	5.00	4.05
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	28.20 kW	27.30 kW
COP Tj = 12°C	5.02	4.28
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	27.80 kW	25.00 kW

COP Tj = Tbiv	4.63	3.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	27.40 kW	25.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.96
WTOL	75 °C	75 °C
Poff	0 W	0 W
PTO	3 W	3 W
PSB	3 W	3 W
PCK	46 W	46 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.61 kW	6.52 kW
Annual energy consumption Qhe	17849 kWh	21670 kWh
Pdh Tj = -15°C (if TOL	27.80	25.00
COP Tj = -15°C (if TOL	4.63	3.29
Cdh Tj = -15 °C	0.90	0.90

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	64 dB(A)	64 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	174 %	131 %
Prated	27.00 kW	25.00 kW
SCOP	4.58	4.58
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	27.40 kW	25.10 kW
COP Tj = +2°C	4.34	2.96
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	27.70 kW	25.80 kW
COP Tj = +7°C	4.55	3.29
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	28.00 kW	26.80 kW
COP Tj = 12°C	4.88	3.89
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	27.40 kW	25.10 kW
COP Tj = Tbiv	4.34	2.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	27.40 kW	25.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.96
WTOL	75 °C	75 °C
Poff	0 W	0 W

PTO	3 W	3 W
PSB	3 W	3 W
PCK	46 W	46 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	8031 kWh	9675 kWh