

Subtype WPF 27 HT

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|---------------------|---|
| 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

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|-------------------------------------|--------------------------------|
| 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 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 |
|-----------------|-----------------|--------------------|
| η_s | 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 |
|---|-----------------|--------------------|
| η_s | 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 Q _{he} | 17849 kWh | 21670 kWh |
| P _{dh} T _j = -15 °C (if TOL | 27.80 | 25.00 |
| COP T _j = -15 °C (if TOL | 4.63 | 3.29 |
| C _{dh} T _j = -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 |
|---|-----------------|--------------------|
| η _s | 174 % | 131 % |
| Prated | 27.00 kW | 25.00 kW |
| SCOP | 4.58 | 4.58 |
| T _{biv} | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| P _{dh} T _j = +2 °C | 27.40 kW | 25.10 kW |
| COP T _j = +2 °C | 4.34 | 2.96 |
| C _{dh} T _j = +2 °C | 0.90 | 0.90 |
| P _{dh} T _j = +7 °C | 27.70 kW | 25.80 kW |
| COP T _j = +7 °C | 4.55 | 3.29 |
| C _{dh} T _j = +7 °C | 0.90 | 0.90 |
| P _{dh} T _j = 12 °C | 28.00 kW | 26.80 kW |
| COP T _j = 12 °C | 4.88 | 3.89 |
| C _{dh} T _j = +12 °C | 0.90 | 0.90 |
| P _{dh} T _j = T _{biv} | 27.40 kW | 25.10 kW |
| COP T _j = T _{biv} | 4.34 | 2.96 |
| P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh} | 27.40 kW | 25.10 kW |
| COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh} | 4.34 | 2.96 |
| WTOL | 75 °C | 75 °C |
| P _{off} | 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 _{he} | 8031 kWh | 9675 kWh |