Login

| Summary of | WPF 10, WPF 10 cool, WPC 10, WPC 10 cool | Reg. No. | 011-1W0010 |
|---|---|---|---|
| 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 10, WPF 10 cool, WPC 10, WPC 10 cool | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 2.03 kg | | |
| Certification Date | 23.08.2016 | | |

# Model: WPF 10

| Configure model | |
|---|---|
| Model name | WPF 10 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10.31 kW | 9.28 kW |
| El input | 2.05 kW | 3.18 kW |
| COP | 5.02 | 2.91 |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 216 % | 137 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.61 | 3.63 |
| Tbiv | -10 °C | -10 °C |
| TOL | -20 °C | -10 °C |
| Pdh Tj = -7°C | 9.20 kW | 9.20 kW |
| COP Tj = -7°C | 2.97 | 2.97 |
| Pdh Tj = +2°C | 9.60 kW | 9.60 kW |
| COP Tj = +2°C | 3.56 | 3.56 |
| Pdh Tj = +7°C | 9.90 kW | 9.90 kW |
| COP Tj = +7°C | 4.03 | 4.03 |
| Pdh Tj = 12°C | 10.10 kW | 10.10 kW |
| COP Tj = 12°C | 4.60 | 4.60 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.10 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.83 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 3799 kWh | 5167 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |

| | | |
|---|---|---|
| $\eta_s$ | 215 % | 136 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.59 | 3.60 |
| Tbiv | 2 °C | 2 °C |
| TOL | 0 °C | 0 °C |
| Pdh Tj = -7°C | 0.00 kW | 0.00 kW |
| COP Tj = -7°C | 0.00 | 0.00 |
| Pdh Tj = +2°C | 10.30 kW | 9.10 kW |
| COP Tj = +2°C | 5.03 | 2.83 |
| Pdh Tj = +7°C | 10.40 kW | 9.50 kW |
| COP Tj = +7°C | 5.43 | 3.28 |
| Pdh Tj = 12°C | 10.60 kW | 10.00 kW |
| COP Tj = 12°C | 6.10 | 4.21 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.30 kW | 91.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.03 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 2466 kWh | 3367 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 224 % | 224 % |
| Prated | 13.00 kW | 13.00 kW |
| SCOP | 5.81 | 5.80 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 10.50 kW | 10.50 kW |
| COP Tj = -7°C | 5.75 | 5.74 |
| Pdh Tj = +2°C | 10.60 kW | 10.60 kW |
| COP Tj = +2°C | 6.07 | 6.07 |
| Pdh Tj = +7°C | 10.70 kW | 10.70 kW |
| COP Tj = +7°C | 6.36 | 6.36 |
| Pdh Tj = 12°C | 10.70 kW | 10.70 kW |
| COP Tj = 12°C | 6.40 | 6.40 |
| Pdh Tj = Tbiv | 10.50 kW | 10.50 kW |
| COP Tj = Tbiv | 5.60 | 5.60 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 10.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.60 | 5.03 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.55 kW | 2.55 kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 5457 kWh | 5457 kWh |

# Model: WPF 10 cool

| Configure model | |
|---|---|
| Model name | WPF 10 cool |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10.31 kW | 9.28 kW |
| El input | 2.05 kW | 3.18 kW |
| COP | 5.02 | 2.91 |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 216 % | 137 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.61 | 3.63 |
| Tbiv | -10 °C | -10 °C |
| TOL | -20 °C | -10 °C |
| Pdh Tj = -7°C | 9.20 kW | 9.20 kW |
| COP Tj = -7°C | 2.97 | 2.97 |
| Pdh Tj = +2°C | 9.60 kW | 9.60 kW |
| COP Tj = +2°C | 3.56 | 3.56 |
| Pdh Tj = +7°C | 9.90 kW | 9.90 kW |
| COP Tj = +7°C | 4.03 | 4.03 |
| Pdh Tj = 12°C | 10.10 kW | 10.10 kW |
| COP Tj = 12°C | 4.60 | 4.60 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.10 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.83 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 3799 kWh | 5167 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |

| | | |
|---|---|---|
| $\eta_s$ | 215 % | 136 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.59 | 3.60 |
| Tbiv | 2 °C | 2 °C |
| TOL | 0 °C | 0 °C |
| Pdh Tj = -7°C | 0.00 kW | 0.00 kW |
| COP Tj = -7°C | 0.00 | 0.00 |
| Pdh Tj = +2°C | 10.30 kW | 9.10 kW |
| COP Tj = +2°C | 5.03 | 2.83 |
| Pdh Tj = +7°C | 10.40 kW | 9.50 kW |
| COP Tj = +7°C | 5.43 | 3.28 |
| Pdh Tj = 12°C | 10.60 kW | 10.00 kW |
| COP Tj = 12°C | 6.10 | 4.21 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.30 kW | 91.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.03 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 2466 kWh | 3367 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 224 % | 224 % |
| Prated | 13.00 kW | 13.00 kW |
| SCOP | 5.81 | 5.80 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 10.50 kW | 10.60 kW |
| COP Tj = -7°C | 5.75 | 6.07 |
| Pdh Tj = +2°C | 10.60 kW | 10.70 kW |
| COP Tj = +2°C | 6.07 | 6.36 |
| Pdh Tj = +7°C | 10.70 kW | 10.70 kW |
| COP Tj = +7°C | 6.36 | 6.36 |
| Pdh Tj = 12°C | 10.70 kW | 10.47 kW |
| COP Tj = 12°C | 6.40 | 6.40 |
| Pdh Tj = Tbiv | 10.50 kW | 10.50 kW |
| COP Tj = Tbiv | 5.60 | 5.60 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 10.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.60 | 5.03 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.55 kW | 0.00 kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 5457 kWh | 5457 kWh |

# Model: WPC 10

| Configure model | |
|---|---|
| Model name | WPC 10 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10.31 kW | 9.28 kW |
| El input | 2.05 kW | 3.18 kW |
| COP | 5.02 | 2.91 |

## Average Climate

| EN 12102-1 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| EN 14825 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 216 % | 137 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.61 | 3.63 |
| Tbiv | -10 °C | -10 °C |
| TOL | -20 °C | -10 °C |
| Pdh Tj = -7°C | 9.20 kW | 9.20 kW |
| COP Tj = -7°C | 2.97 | 2.97 |
| Pdh Tj = +2°C | 9.60 kW | 9.60 kW |
| COP Tj = +2°C | 3.56 | 3.56 |
| Pdh Tj = +7°C | 9.90 kW | 9.90 kW |
| COP Tj = +7°C | 4.03 | 4.03 |
| Pdh Tj = 12°C | 10.10 kW | 10.10 kW |
| COP Tj = 12°C | 4.60 | 4.60 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.10 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.83 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 3799 kWh | 5167 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |

| | | |
|---|---|---|
| $\eta_s$ | 215 % | 136 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.59 | 3.60 |
| Tbiv | 2 °C | 2 °C |
| TOL | 0 °C | 0 °C |
| Pdh Tj = -7°C | 0.00 kW | 0.00 kW |
| COP Tj = -7°C | 0.00 | 0.00 |
| Pdh Tj = +2°C | 10.30 kW | 9.10 kW |
| COP Tj = +2°C | 5.03 | 2.83 |
| Pdh Tj = +7°C | 10.40 kW | 9.50 kW |
| COP Tj = +7°C | 5.43 | 3.28 |
| Pdh Tj = 12°C | 10.60 kW | 10.00 kW |
| COP Tj = 12°C | 6.10 | 4.21 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.30 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.03 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 2466 kWh | 3367 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 224 % | 144 % |
| Prated | 13.00 kW | 12.00 kW |
| SCOP | 5.81 | 5.80 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 10.50 kW | 9.60 kW |
| COP Tj = -7°C | 5.75 | 3.55 |
| Pdh Tj = +2°C | 10.60 kW | 9.90 kW |
| COP Tj = +2°C | 6.07 | 4.03 |
| Pdh Tj = +7°C | 10.70 kW | 10.10 kW |
| COP Tj = +7°C | 6.36 | 4.48 |
| Pdh Tj = 12°C | 10.70 kW | 10.30 kW |
| COP Tj = 12°C | 6.40 | 4.87 |
| Pdh Tj = Tbiv | 10.50 kW | 9.50 kW |
| COP Tj = Tbiv | 5.60 | 3.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.60 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.55 kW | 2.50 kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 5457 kWh | 7549 kWh |

# Model: WPC 10 cool

| Configure model | |
|---|---|
| Model name | WPC 10 cool |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 10.31 kW | 9.28 kW |
| El input | 2.05 kW | 3.18 kW |
| COP | 5.02 | 2.91 |

## Average Climate

## EN 12102-1

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

## EN 14825

| | Low temperature | Medium temperature |
|---|---|---|
| $\eta_s$ | 216 % | 137 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.61 | 3.63 |
| Tbiv | -10 °C | -10 °C |
| TOL | -20 °C | -10 °C |
| Pdh Tj = -7°C | 9.20 kW | 9.20 kW |
| COP Tj = -7°C | 2.97 | 2.97 |
| Pdh Tj = +2°C | 9.60 kW | 9.60 kW |
| COP Tj = +2°C | 3.56 | 3.56 |
| Pdh Tj = +7°C | 9.90 kW | 9.90 kW |
| COP Tj = +7°C | 4.03 | 4.03 |
| Pdh Tj = 12°C | 10.10 kW | 10.10 kW |
| COP Tj = 12°C | 4.60 | 4.60 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |

| | | |
|---|---|---|
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.10 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.83 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 3799 kWh | 5167 kWh |

## Warmer Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |

| | | |
|---|---|---|
| $\eta_s$ | 215 % | 136 % |
| Prated | 10.00 kW | 9.00 kW |
| SCOP | 5.59 | 3.60 |
| Tbiv | 2 °C | 2 °C |
| TOL | 0 °C | 0 °C |
| Pdh Tj = -7°C | 0.00 kW | 0.00 kW |
| COP Tj = -7°C | 0.00 | 0.00 |
| Pdh Tj = +2°C | 10.30 kW | 9.10 kW |
| COP Tj = +2°C | 5.03 | 2.83 |
| Pdh Tj = +7°C | 10.40 kW | 9.50 kW |
| COP Tj = +7°C | 5.43 | 3.28 |
| Pdh Tj = 12°C | 10.60 kW | 10.00 kW |
| COP Tj = 12°C | 6.10 | 4.21 |
| Pdh Tj = Tbiv | 10.30 kW | 9.10 kW |
| COP Tj = Tbiv | 5.03 | 2.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.30 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.03 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 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 | 2466 kWh | 3367 kWh |

## Colder Climate

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | 52 dB(A) | 52 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

| **EN 14825** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| $\eta_s$ | 224 % | 144 % |
| Prated | 13.00 kW | 12.00 kW |
| SCOP | 5.81 | 3.80 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |

| | | |
|---|---|---|
| Pdh Tj = -7°C | 10.50 kW | 9.60 kW |
| COP Tj = -7°C | 5.75 | 3.55 |
| Pdh Tj = +2°C | 10.60 kW | 9.90 kW |
| COP Tj = +2°C | 6.07 | 4.03 |
| Pdh Tj = +7°C | 10.70 kW | 10.10 kW |
| COP Tj = +7°C | 6.36 | 4.48 |
| Pdh Tj = 12°C | 10.70 kW | 10.30 kW |
| COP Tj = 12°C | 6.40 | 4.87 |
| Pdh Tj = Tbiv | 10.50 kW | 9.50 kW |
| COP Tj = Tbiv | 5.60 | 3.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.50 kW | 9.10 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.60 | 2.83 |
| Rated airflow rate | 0 m³/h | 0 m³/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 | 84 W | 84 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.55 kW | 2.50 kW |

| | | |
|---|---|---|
| Annual energy consumption Qhe | 5457 kWh | 7549 kWh |