

Subtype WPF 35

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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 35 |
| Registration number | 011-1W0029 |
| 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

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|-------------------------------------|--------------------------------|
| Model name | WPF 35 |
| 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

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|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

Brine/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 37.70 kW | 34.49 kW |
| EI input | 7.98 kW | 11.47 kW |
| COP | 4.72 | 3.01 |

EN 12102-1 | Average Climate

| | 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 | Average Climate

| | 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 |

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|---|-------------|-------------|
| COP Tj = 12°C | 5.96 | 4.42 |
| Pdh Tj = Tbiv | 38.00 kW | 34.10 kW |
| COP Tj = Tbiv | 4.75 | 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 |
| 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 |

EN 12102-1 | Colder Climate

| | 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 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 208 % | 139 % |
| Prated | 47.00 kW | 43.00 kW |
| SCOP | 5.41 | 3.66 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 38.80 kW | 35.80 kW |
| COP Tj = -7°C | 5.38 | 3.48 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 39.10 kW | 36.70 kW |
| COP Tj = +2°C | 5.67 | 3.91 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 39.30 kW | 37.40 kW |
| COP Tj = +7°C | 5.90 | 4.32 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 39.30 kW | 37.90 kW |
| COP Tj = 12°C | 5.94 | 4.66 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 38.60 kW | 35.30 kW |
| COP Tj = Tbiv | 5.26 | 3.25 |

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|---|-------------|-------------|
| 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 | 0.900 | 0.900 |
| 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 | 8.40 kW | 9.15 kW |
| Annual energy consumption Qhe | 21594 kWh | 28986 kWh |

EN 12102-1 | Warmer Climate

| | 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 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 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 |