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| | | | |
|---------------------|---|----------|------------|
| Summary of | WPF 52 | Reg. No. | 011-1W0186 |
| 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 52 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 12.5 kg | | |
| Certification Date | 04.09.2019 | | |

Model: WPF 52

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | WPF 52 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | Colder Climate + Warmer Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 55.83 kW | 52.18 kW |
| El input | 11.61 kW | 17.45 kW |
| COP | 4.81 | 2.99 |

Average Climate

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EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 138 % |
| Prated | 56.00 kW | 52.00 kW |
| SCOP | 5.20 | 3.65 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 55.90 kW | 52.50 kW |
| COP Tj = -7°C | 4.87 | 3.12 |
| Pdh Tj = +2°C | 56.30 kW | 53.80 kW |
| COP Tj = +2°C | 5.20 | 3.64 |
| Pdh Tj = +7°C | 56.70 kW | 54.60 kW |
| COP Tj = +7°C | 5.53 | 4.03 |
| Pdh Tj = 12°C | 57.00 kW | 55.40 kW |
| COP Tj = 12°C | 5.90 | 4.52 |
| Pdh Tj = Tbiv | 55.80 kW | 52.20 kW |
| COP Tj = Tbiv | 4.81 | 2.99 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 55.80 kW | 52.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 2.99 |
| 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 | 99 W | 99 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 22209 kWh | 29469 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 59 dB(A) | 59 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

Warmer Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 199 % | 138 % |
| Prated | 56.00 kW | 52.00 kW |
| SCOP | 5.18 | 3.65 |
| Tbiv | 2 °C | 2 °C |
| TOL | 0 °C | 0 °C |

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| | | |
|---|-------------|-------------|
| Pdh Tj = +2°C | 55.80 kW | 55.20 kW |
| COP Tj = +2°C | 4.81 | 2.99 |
| Pdh Tj = +7°C | 56.20 kW | 53.30 kW |
| COP Tj = +7°C | 5.12 | 3.39 |
| Pdh Tj = 12°C | 56.80 kW | 54.90 kW |
| COP Tj = 12°C | 5.65 | 4.19 |
| Pdh Tj = Tbiv | 55.80 kW | 52.20 kW |
| COP Tj = Tbiv | 4.81 | 2.99 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 55.80 kW | 52.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 2.99 |
| 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 | 99 W | 99 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 14419 kWh | 19157 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 59 dB(A) | 59 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

Colder Climate

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 207 % | 144 % |
| Prated | 69.00 kW | 65.00 kW |
| SCOP | 5.38 | 3.80 |
| Tbiv | -15 °C | -15 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 56.50 kW | 53.80 kW |
| COP Tj = -7°C | 5.36 | 3.62 |
| Pdh Tj = +2°C | 56.80 kW | 54.60 kW |
| COP Tj = +2°C | 5.63 | 4.03 |
| Pdh Tj = +7°C | 57.00 kW | 55.30 kW |
| COP Tj = +7°C | 5.84 | 4.42 |
| Pdh Tj = 12°C | 57.00 kW | 55.70 kW |
| COP Tj = 12°C | 5.88 | 4.74 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 56.40 kW | 53.30 kW |
| COP Tj = Tbiv | 5.25 | 3.39 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 55.80 kW | 52.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.81 | 2.99 |
| 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 | 99 W | 99 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 13.28 kW | 13.12 kW |
| Annual energy consumption Qhe | 31644 kWh | 42330 kWh |

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 59 dB(A) | 59 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |