

Subtype WPF 16 basic

| | |
|---------------------|---|
| 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 16 basic |
| Registration number | 011-1W0189 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 2.6 kg |
| Certification Date | 04.09.2019 |

Model WPF 16 basic, all climates

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|-------------------------------------|--------------------------------|
| Model name | WPF 16 basic, all climates |
| Application | Heating (low temp) |
| Units | Indoor |
| 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 | 1x230V 50Hz |
| Off-peak product | n/a |

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 16.64 kW | 15.62 kW |
| El input | 4.00 kW | 6.34 kW |
| COP | 4.35 | 2.46 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | 65 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 117 % | 117 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.80 | 3.18 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 16.70 kW | 15.70 kW |
| COP Tj = -7°C | 4.22 | 2.59 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 16.80 kW | 16.10 kW |
| COP Tj = +2°C | 4.54 | 3.06 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 16.90 kW | 16.30 kW |
| COP Tj = +7°C | 4.87 | 3.43 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 17.00 kW | 16.50 kW |
| COP Tj = 12°C | 5.26 | 3.88 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 16.60 kW | 15.60 kW |
| COP Tj = Tbiv | 4.16 | 2.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.60 kW | 15.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.16 | 2.48 |
| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 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 | 7440 kWh | 10353 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 183 % | 122 % |
| Prated | 21.00 kW | 20.00 kW |
| SCOP | 5.08 | 3.30 |
| Tbiv | -15 °C | -15 °C |
| TOL | -20 °C | -20 °C |
| Pdh Tj = -7°C | 16.80 kW | 16.10 kW |
| COP Tj = -7°C | 4.71 | 3.04 |
| Cdh Tj = -7 °C | 0.900 | 0.90 |
| Pdh Tj = +2°C | 16.90 kW | 16.30 kW |
| COP Tj = +2°C | 4.97 | 3.42 |
| Cdh Tj = +2 °C | 0.900 | 0.90 |
| Pdh Tj = +7°C | 17.00 kW | 16.50 kW |
| COP Tj = +7°C | 5.20 | 3.79 |
| Cdh Tj = +7 °C | 0.900 | 0.90 |
| Pdh Tj = 12°C | 17.00 kW | 16.60 kW |
| COP Tj = 12°C | 5.23 | 4.10 |
| Cdh Tj = +12 °C | 0.900 | 0.90 |
| Pdh Tj = Tbiv | 16.80 kW | 15.90 kW |
| COP Tj = Tbiv | 4.60 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.60 kW | 15.60 kW |

| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.16 | 2.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 21.00 kW | 3.90 kW |
| Annual energy consumption Qhe | 10600 kWh | 14861 kWh |
| Pdh Tj = -15°C (if TOL | 16.80 | 15.90 |
| COP Tj = -15°C (if TOL | 4.60 | 2.84 |
| Cdh Tj = -15 °C | 0.90 | 0.90 |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 178 % | 117 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.98 | 3.20 |
| Tbiv | 2 °C | 2 °C |
| TOL | -5 °C | -5 °C |
| Pdh Tj = +2°C | 16.60 kW | 15.60 kW |
| COP Tj = +2°C | 4.16 | 2.48 |
| Cdh Tj = +2 °C | 0.900 | 0.90 |
| Pdh Tj = +7°C | 16.80 kW | 15.90 kW |
| COP Tj = +7°C | 4.47 | 3.84 |
| Cdh Tj = +7 °C | 0.900 | 0.90 |
| Pdh Tj = 12°C | 16.90 kW | 16.40 kW |
| COP Tj = 12°C | 5.00 | 3.57 |
| Cdh Tj = +12 °C | 0.900 | 0.90 |
| Pdh Tj = Tbiv | 16.60 kW | 15.60 kW |
| COP Tj = Tbiv | 4.16 | 2.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.60 kW | 15.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.16 | 2.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | | |
| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |

| | | |
|--|-------------|-------------|
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.40 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 4778 kWh | 6678 kWh |

Model WPF 16 basic, average climates

| | |
|-------------------------------------|--------------------------------|
| Model name | WPF 16 basic, average climates |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | n/a |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

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 | failed |
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| Heat output | 16.64 kW | 15.62 kW |
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| COP | 4.35 | 2.46 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | 65 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 117 % | 117 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.80 | 3.18 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 16.70 kW | 15.70 kW |
| COP Tj = -7°C | 4.22 | 2.59 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 16.80 kW | 16.10 kW |
| COP Tj = +2°C | 4.54 | 3.06 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 16.90 kW | 16.30 kW |
| COP Tj = +7°C | 4.87 | 3.43 |

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| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 17.00 kW | 16.50 kW |
| COP Tj = 12°C | 5.26 | 3.88 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 16.60 kW | 15.60 kW |
| COP Tj = Tbiv | 4.16 | 2.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.60 kW | 15.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.16 | 2.48 |
| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 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 | 7440 kWh | 10353 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
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| ηs | 183 % | 122 % |
| Prated | 21.00 kW | 20.00 kW |
| SCOP | 5.08 | 3.30 |
| Tbiv | -15 °C | -15 °C |
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| COP Tj = +7°C | 5.20 | 3.79 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 17.00 kW | 16.60 kW |
| COP Tj = 12°C | 5.23 | 4.10 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 16.80 kW | 15.90 kW |
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| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 3.94 kW | 3.90 kW |
| Annual energy consumption Qhe | 10600 kWh | 14861 kWh |
| Pdh Tj = -15°C (if TOL | 16.80 | 15.90 |
| COP Tj = -15°C (if TOL | 4.60 | 2.84 |
| Cdh Tj = -15 °C | 0.90 | 0.90 |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 65 dB(A) | |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 178 % | 117 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.98 | 3.20 |
| Tbiv | 2 °C | 2 °C |
| TOL | -5 °C | -5 °C |
| Pdh Tj = +2°C | 16.60 kW | 15.60 kW |
| COP Tj = +2°C | 4.16 | 2.48 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 16.80 kW | 15.90 kW |
| COP Tj = +7°C | 4.47 | 3.84 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 16.90 kW | 16.40 kW |
| COP Tj = 12°C | 5.00 | 3.57 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 16.60 kW | 15.60 kW |
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| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 16.60 kW | 15.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.16 | 2.48 |
| WTOL | 60 °C | 60 °C |
| Poff | 0 W | 0 W |
| PTO | 78 W | 78 W |
| PSB | 3 W | 3 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 Q _{he} | 4778 kWh | 6678 kWh |