

Subtype VWF 117/4

| | |
|---------------------|---|
| Certificate Holder | Vaillant GmbH |
| Address | Berghauser Str. 40 |
| ZIP | 42859 |
| City | Remscheid |
| Country | DE |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | VWF 117/4 |
| Registration number | 011-1W0751 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 2.5 kg |
| Certification Date | 28.04.2021 |
| Testing basis | DIN EN 14511-1:2019-07; EN 14511-1:2018 DIN EN 14511-2:2019-07; EN 14511-2:2018 DIN EN 14511-3:2019-07; EN 14511-3:2018 DIN EN 14511-4:2019-07; EN 14511-4:2018 EN 12102-1:2018-02; EN 12102-1:2017 |

Model VWF 118/4

| | |
|-------------------------------------|-----------------------|
| Model name | VWF 118/4 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate zone (for heating) | Colder, Warmer |
| 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 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 11.18 kW | 11.33 kW |
| El input | 2.34 kW | 3.66 kW |
| COP | 4.77 | 3.10 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45 dB(A) | 47 dB(A) |
| Sound power level outdoor | - dB(A) | - dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 201 % | 142 % |
| Prated | 11.18 kW | 11.33 kW |
| SCOP | 5.22 | 3.76 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.18 kW | 11.32 kW |
| COP Tj = -7°C | 4.83 | 3.21 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 11.16 kW | 11.26 kW |
| COP Tj = +2°C | 5.15 | 3.70 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 11.14 kW | 11.23 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 5.49 | 4.08 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 11.13 kW | 11.19 kW |
| COP Tj = 12°C | 5.87 | 4.56 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 11.18 kW | 11.33 kW |
| COP Tj = Tbiv | 4.77 | 3.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.18 kW | 11.33 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.77 | 3.10 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 4 W | 4 W |
| PSB | 7 W | 7 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 | 4427 kWh | 6227 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45 dB(A) | 47 dB(A) |
| Sound power level outdoor | - dB(A) | - dB(A) |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs | 206 % | 145 % |
| Prated | 11.18 kW | 11.33 kW |
| SCOP | 5.35 | 3.83 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 11.16 kW | 11.27 kW |
| COP Tj = -7°C | 5.21 | 3.59 |
| Cdh Tj = -7 °C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 11.14 kW | 11.23 kW |
| COP Tj = +2°C | 5.51 | 4.01 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 11.13 kW | 11.20 kW |
| COP Tj = +7°C | 5.75 | 4.41 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 11.13 kW | 11.18 kW |
| COP Tj = 12°C | 5.82 | 4.76 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 11.18 kW | 11.33 kW |
| COP Tj = Tbiv | 4.77 | 3.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.18 kW | 11.33 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.77 | 3.10 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 4 W | 4 W |
| PSB | 7 W | 7 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 | 5147 kWh | 7285 kWh |
| Cdh Tj = -15 °C | 1.00 | 1.00 |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45 dB(A) | 47 dB(A) |
| Sound power level outdoor | - dB(A) | - dB(A) |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 204 % | 144 % |
| Prated | 11.18 kW | 11.33 kW |
| SCOP | 5.29 | 3.79 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 11.18 kW | 11.33 kW |
| COP Tj = +2°C | 4.77 | 3.10 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
| Pdh Tj = +7°C | 11.16 kW | 11.29 kW |
| COP Tj = +7°C | 5.08 | 3.47 |
| Cdh Tj = +7 °C | 1.00 | 1.00 |
| Pdh Tj = 12°C | 11.14 kW | 11.21 kW |
| COP Tj = 12°C | 5.61 | 4.24 |
| Cdh Tj = +12 °C | 1.00 | 1.00 |
| Pdh Tj = Tbiv | 11.18 kW | 11.33 kW |
| COP Tj = Tbiv | 4.77 | 3.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.18 kW | 11.33 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.77 | 3.10 |

| | | |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 4 W | 4 W |
| PSB | 7 W | 7 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 | 2823 kWh | 3994 kWh |

| Model VWF 117/4 | | |
|--|-----------------------|--------------------|
| Model name | VWF 117/4 | |
| Application | Heating (medium temp) | |
| Units | Indoor | |
| Climate zone (for heating) | Colder, Warmer | |
| 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 14511-2 Heating | | |
| | Low temperature | Medium temperature |
| Heat output | 11.18 kW | 11.33 kW |
| El input | 2.34 kW | 3.66 kW |
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| EN 12102-1 Average Climate | | |
| | Low temperature | Medium temperature |
| Sound power level indoor | 45 dB(A) | 47 dB(A) |
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| Pdh Tj = +2°C | 11.16 kW | 11.26 kW |
| COP Tj = +2°C | 5.15 | 3.70 |
| Cdh Tj = +2 °C | 1.00 | 1.00 |
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| Cdh Tj = +12 °C | 1.00 | 1.00 |
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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.77 | 3.10 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 4 W | 4 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
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| Cdh Tj = -7 °C | 1.00 | 1.00 |
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