

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | | |
|----------------------------|--|----------|----------|
| Summary of | VWF 157/4 | Reg. No. | 40046301 |
| Certificate Holder | | | |
| Name | Vaillant Deutschland GmbH & Co KG | | |
| Address | Berghauser Straße 40 | Zip | 42859 |
| City | Remscheid | Country | Germany |
| Certification Body | VDE Testing and Certification Institute GmbH | | |
| Name of testing laboratory | VDE Testing and Certification Institute GmbH | | |
| Subtype title | VWF 157/4 | | |
| Heat Pump Type | Brine/Water | | |
| Refrigerant | R410a | | |
| Mass Of Refrigerant | 3.05 kg | | |

Model: VWF 157/4 35 & 55

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 |

EN 14511-2

| | Low temperature | Medium temperature |
|------------------------|------------------------|------------------------|
| Heat output | 14.28 kW | 14.55 kW |
| El input | 2.93 kW | 4.53 kW |
| COP | 4.87 | 3.21 |
| Indoor water flow rate | 2.45 m ³ /h | 1.60 m ³ /h |

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 208 % | 150 % |
| Prated | 14.48 kW | 17.00 kW |
| SCOP | 5.39 | 3.94 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 14.46 kW | 14.70 kW |
| COP Tj = -7°C | 5.08 | 3.42 |
| Pdh Tj = +2°C | 14.44 kW | 14.60 kW |
| COP Tj = +2°C | 5.38 | 3.91 |
| Pdh Tj = +7°C | 14.42 kW | 14.60 kW |
| COP Tj = +7°C | 5.69 | 4.29 |
| Pdh Tj = 12°C | 14.39 kW | 14.50 kW |
| COP Tj = 12°C | 6.05 | 4.75 |
| Pdh Tj = Tbiv | 14.46 kW | 14.70 kW |
| COP Tj = Tbiv | 5.08 | 3.42 |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|-------------|-------------|
| Pdh Tj = TOL | 14.50 kW | 14.80 kW |
| COP Tj = TOL | 4.73 | 3.00 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.90 kW | 1.90 kW |
| Annual energy consumption Qhe | 6268 kWh | 8697 kWh |

Warmer Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 210 % | 151 % |
| Prated | 14.48 kW | 14.72 kW |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|-------------|-------------|
| SCOP | 5.45 | 3.97 |
| Tbiv | 4 °C | 4 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = +2°C | 14.48 kW | 14.72 kW |
| COP Tj = +2°C | 4.94 | 3.25 |
| Pdh Tj = +7°C | 14.44 kW | 16.63 kW |
| COP Tj = +7°C | 5.33 | 3.69 |
| Pdh Tj = 12°C | 14.41 kW | 14.53 kW |
| COP Tj = 12°C | 5.82 | 4.44 |
| Pdh Tj = Tbiv | 14.46 kW | 14.68 kW |
| COP Tj = Tbiv | 5.16 | 3.46 |
| Pdh Tj = TOL | 14.48 kW | 14.72 kW |
| COP Tj = TOL | 4.94 | 3.25 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.90 kW | 1.90 kW |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|---|----------|----------|
| Annual energy consumption Q _{he} | 4132 kWh | 5758 kWh |
|---|----------|----------|

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 48 dB(A) | 48 dB(A) |

| EN 14825 | | |
|---------------------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 214 % | 153 % |
| Prated | 14.48 kW | 14.72 kW |
| SCOP | 5.55 | 4.03 |
| T _{biv} | -17 °C | -17 °C |
| TOL | -22 °C | -22 °C |
| P _{dh} T _j = -7°C | 14.43 kW | 14.62 kW |
| COP T _j = -7°C | 5.45 | 3.81 |
| P _{dh} T _j = +2°C | 14.41 kW | 14.56 kW |
| COP T _j = +2°C | 5.72 | 4.22 |
| P _{dh} T _j = +7°C | 14.40 kW | 14.51 kW |
| COP T _j = +7°C | 5.95 | 4.61 |
| P _{dh} T _j = 12°C | 14.39 kW | 14.47 kW |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|-------------|-------------|
| COP Tj = 12°C | 6.00 | 4.95 |
| Pdh Tj = Tbiv | 14.46 kW | 14.68 kW |
| COP Tj = Tbiv | 5.17 | 3.46 |
| Pdh Tj = TOL | 14.45 kW | 14.66 kW |
| COP Tj = TOL | 5.22 | 3.53 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 7 W | 7 W |
| PTO | 7 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 1.90 kW | 1.90 kW |
| Annual energy consumption Qhe | 7399 kWh | 10335 kWh |