

This information was generated by the HP KEYMARK database on 7 Jul 2022

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|---------------------|--|----------|----------|
| Summary of | VWL 85/3 A 230V | Reg. No. | 40045831 |
| 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 | | |
| Subtype title | VWL 85/3 A 230V | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 1.95 kg | | |
| Certification Date | 22.02.2017 | | |

Model: VWL 85/3 A 230V

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | VWL 85/3 A 230V |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | Warmer Climate |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 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 |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 7.07 kW | 6.34 kW |
| El input | 1.74 kW | 2.38 kW |
| COP | 4.07 | 2.66 |

Warmer Climate

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EN 12102-1

| | 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

| | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| η_s | 208 % | 152 % |
| Prated | 6.94 kW | 5.49 kW |
| SCOP | 5.27 | 3.87 |
| Tbiv | 2 °C | 2 °C |
| TOL | 2 °C | 2 °C |
| Pdh Tj = +2°C | 6.94 kW | 5.49 kW |
| COP Tj = +2°C | 2.75 | 2.08 |
| Cdh Tj = +2 °C | 0.99 | 0.99 |
| Pdh Tj = +7°C | 4.58 kW | 3.65 kW |
| COP Tj = +7°C | 4.84 | 3.29 |
| Cdh Tj = +7 °C | 0.99 | 0.99 |
| Pdh Tj = 12°C | 3.49 kW | 3.27 kW |
| COP Tj = 12°C | 6.35 | 5.03 |
| Cdh Tj = +12 °C | 0.99 | 0.99 |

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|---|-------------|-------------|
| Pdh Tj = Tbiv | 6.94 kW | 5.49 kW |
| COP Tj = Tbiv | 2.75 | 2.08 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.94 kW | 5.49 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.75 | 2.08 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99 | 0.99 |
| WTOL | 63 °C | 63 °C |
| Poff | 4 W | 4 W |
| PTO | 4 W | 4 W |
| PSB | 5 W | 5 W |
| PCK | 6 W | 6 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 1760 kWh | 1894 kWh |

Average Climate

| EN 12102-1 | | |
|---------------------------|------------------------|---------------------------|
| | 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 |
|-----------------|
|-----------------|

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| | Low temperature | Medium temperature |
|---|------------------------|---------------------------|
| η_s | 153 % | 120 % |
| Prated | 6.45 kW | 3.73 kW |
| SCOP | 3.90 | 3.07 |
| Tbiv | -7 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.71 kW | 3.25 kW |
| COP Tj = -7°C | 2.34 | 1.99 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| Pdh Tj = +2°C | 3.57 kW | 2.22 kW |
| COP Tj = +2°C | 3.83 | 2.91 |
| Cdh Tj = +2 °C | 0.990 | 0.990 |
| Pdh Tj = +7°C | 2.98 kW | 2.81 kW |
| COP Tj = +7°C | 5.10 | 4.02 |
| Cdh Tj = +7 °C | 0.990 | 0.990 |
| Pdh Tj = 12°C | 3.54 kW | 3.49 kW |
| COP Tj = 12°C | 6.70 | 5.69 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Pdh Tj = Tbiv | 5.71 kW | 3.73 kW |
| COP Tj = Tbiv | 2.34 | 1.76 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.51 kW | 3.73 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.25 | 1.76 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.000 | 1.000 |
| WTOL | 63 °C | 63 °C |
| Poff | 4 W | 4 W |
| PTO | 4 W | 4 W |
| PSB | 5 W | 5 W |
| PCK | 6 W | 6 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.94 kW | 0.00 kW |
| Annual energy consumption Qhe | 3420 kWh | 2508 kWh |