

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

Summary of	VWL 55/3 A 230V	Reg. No.	40045821
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	VWL 55/3 A 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.8 kg		

Model: VWL 55/3 A 230V 35 & 55

General Data

Power supply	1x230V 50Hz
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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	4.37 kW	4.08 kW
El input	0.93 kW	1.40 kW
COP	4.68	2.92
Indoor water flow rate	0.86 m ³ /h	0.61 m ³ /h

Average Climate

EN 14825

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	Low temperature	Medium temperature
η_s	153 %	120 %
Prated	4.40 kW	4.10 kW
SCOP	3.88	3.08
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.05 kW	4.40 kW
COP Tj = -7°C	2.61	2.00
Pdh Tj = +2°C	2.86 kW	2.80 kW
COP Tj = +2°C	4.05	3.06
Pdh Tj = +7°C	3.97 kW	3.80 kW
COP Tj = +7°C	5.74	4.10
Pdh Tj = 12°C	4.56 kW	4.50 kW
COP Tj = 12°C	6.98	5.19
Pdh Tj = Tbiv	5.05 kW	4.40 kW
COP Tj = Tbiv	2.61	2.00
Pdh Tj = TOL	4.87 kW	3.60 kW
COP Tj = TOL	2.45	1.75
Cdh	0.99	0.99
WTOL	60 °C	60 °C
Poff	6 W	6 W

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PTO	6 W	6 W
PSB	5 W	5 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	7992 kWh	7011 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	234 %	180 %
Prated	6.00 kW	6.00 kW
SCOP	5.94	4.58
T _{biv}	2 °C	2 °C
TOL	-15 °C	-15 °C
P _{dh} T _j = +2°C	5.80 kW	5.80 kW

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COP Tj = +2°C	3.30	1.70
Pdh Tj = +7°C	3.70 kW	3.70 kW
COP Tj = +7°C	5.60	3.60
Pdh Tj = 12°C	4.60 kW	4.60 kW
COP Tj = 12°C	7.00	7.00
Pdh Tj = Tbiv	5.80 kW	5.80 kW
COP Tj = Tbiv	3.30	1.70
Pdh Tj = TOL	5.80 kW	5.80 kW
COP Tj = TOL	3.30	1.70
Cdh	0.99	0.99
WTOL	60 °C	60 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	5 W	5 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1304 kWh	1694 kWh

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	125 %	107 %
Prated	7.00 kW	6.00 kW
SCOP	3.19	2.74
Tbiv	-12 °C	-12 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.10 kW	4.20 kW
COP Tj = -7°C	2.60	2.00
Pdh Tj = +2°C	2.90 kW	2.30 kW
COP Tj = +2°C	4.10	3.70
Pdh Tj = +7°C	4.00 kW	4.00 kW
COP Tj = +7°C	5.70	5.70
Pdh Tj = 12°C	4.60 kW	4.60 kW
COP Tj = 12°C	7.00	7.00
Pdh Tj = Tbiv	4.80 kW	4.50 kW

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COP $T_j = T_{biv}$	2.60	2.00
P _{dh} $T_j = TOL$	4.90 kW	4.00 kW
COP $T_j = TOL$	2.50	1.90
C _{dh}	0.99	0.99
WTOL	55 °C	55 °C
P _{off}	6 W	6 W
PTO	6 W	6 W
PSB	5 W	5 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	5036 kWh	5497 kWh

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)