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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	VDE Testing and Certification Institute GmbH		
Name of testing laboratory	VDE Testing and Certification	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			



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Model: VWL 85/3 A 230V 35 & 55

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	7.71 kW	6.52 kW	
El input	1.67 kW	2.34 kW	
СОР	4.63	2.79	
Indoor water flow rate	1.40 m³/h	0.78 m³/h	

Average Climate

EN 14825



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	Low temperature	Medium temperature
η_{s}	183 %	131 %
Prated	7.70 kW	6.50 kW
SCOP	4.66	3.29
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.63 kW	4.90 kW
COP Tj = -7°C	2.66	1.97
Pdh Tj = +2°C	4.31 kW	3.20 kW
COP Tj = +2°C	4.64	3.25
Pdh Tj = +7°C	3.23 kW	3.00 kW
COP Tj = +7°C	6.43	4.69
Pdh Tj = 12°C	3.69 kW	3.40 kW
COP Tj = 12°C	8.88	6.75
Pdh Tj = Tbiv	6.63 kW	4.90 kW
COP Tj = Tbiv	2.66	1.97
Pdh Tj = TOL	6.60 kW	4.10 kW
COP Tj = TOL	2.61	1.89
Cdh	0.99	0.99
WTOL	63 °C	63 °C
Poff	4 W	4 W

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РТО	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	10492 kWh	7818 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η _s	244 %	185 %
Prated	8.00 kW	6.00 kW
SCOP	6.18	4.70
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.30 kW	5.70 kW
COP Tj = +2°C	3.00	2.10

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Pdh Tj = +7°C	5.30 kW	3.70 kW
COP Tj = +7°C	4.80	3.70
Pdh Tj = 12°C	3.70 kW	3.40 kW
COP Tj = 12°C	8.90	6.80
Pdh Tj = Tbiv	8.30 kW	5.70 kW
COP Tj = Tbiv	3.00	2.10
Pdh Tj = TOL	8.30 kW	5.70 kW
COP Tj = TOL	3.00	2.10
Cdh	0.99	0.99
WTOL	60 °C	60 °C
Poff	4 W	4 W
РТО	4 W	4 W
PSB	5 W	5 W
РСК	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	1789 kWh	1630 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)



Colder Climate

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EN 14825		
	Low temperature	Medium temperature
η_{s}	122 %	104 %
Prated	10.00 kW	6.00 kW
SCOP	3.13	2.68
Tbiv	-12 °C	-12 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.00 kW	4.90 kW
COP Tj = -7°C	2.30	2.00
Pdh Tj = +2°C	3.50 kW	3.20 kW
COP Tj = +2°C	4.60	3.30
Pdh Tj = +7°C	3.20 kW	3.20 kW
COP Tj = +7°C	6.40	4.70
Pdh Tj = 12°C	3.70 kW	3.40 kW
COP Tj = 12°C	8.00	6.80
Pdh Tj = Tbiv	7.00 kW	4.50 kW
COP Tj = Tbiv	2.60	2.00
Pdh Tj = TOL	5.50 kW	4.10 kW
COP Tj = TOL	2.30	1.90
Cdh	0.99	0.99

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WTOL	55 °C	55 °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	7476 kWh	5619 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	60 dB(A)	60 dB(A)