Login

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 Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	VWL 55/3 A 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.8 kg		
Certification Date	22.02.2017		
Testing basis	DIN EN 14825:2013-12; EN 14825:2013		

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The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

Model: VWL 55/3 A 230V

Configure model	
Model name	VWL 55/3 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	4.40 kW	3.94 kW
El input	0.97 kW	1.45 kW
COP	4.53	2.73

Warmer Climate

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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)

EN 14825		
	Low temperature	**Medium temperature**
η_s	199 %	150 %
Prated	5.80 kW	4.90 kW
SCOP	5.05	3.83
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.45 kW	4.53 kW
COP Tj = +2°C	2.80	2.06
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.37 kW	3.63 kW
COP Tj = +7°C	4.44	3.42
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.51 kW	4.38 kW
COP Tj = 12°C	6.36	4.81
Cdh Tj = +12 °C	0.990	0.990

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Pdh Tj = Tbiv	5.45 kW	4.53 kW
COP Tj = Tbiv	2.80	2.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.45 kW	4.53 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
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	1535 kWh	1708 kWh

Average Climate

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)

EN 14825

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	Low temperature	**Medium temperature**
η_s	149 %	119 %
Prated	5.71 kW	4.22 kW
SCOP	3.79	3.05
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	4.67 kW	3.74 kW
COP Tj = -7°C	2.45	2.00
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.90 kW	2.87 kW
COP Tj = +2°C	3.85	3.07
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.38 kW	3.81 kW
COP Tj = +7°C	4.62	4.15
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	4.53 kW	4.47 kW
COP Tj = 12°C	6.55	5.21
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	4.67 kW	3.74 kW
COP Tj = Tbiv	2.45	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.62 kW	3.74 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
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	1.09 kW	4.22 kW
Annual energy consumption Qhe	3110 kWh	2860 kWh

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