

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

Summary of	VWF 57/4	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	VWF 57/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.5 kg		

Model: VWF 58/4 35 & 55

General Data

Power supply	3x400V 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

EN 14511-2

	Low temperature	Medium temperature
Heat output	5.22 kW	5.31 kW
El input	1.12 kW	1.78 kW
COP	4.66	2.98
Indoor water flow rate	0.92 m ³ /h	0.57 m ³ /h

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	199 %	140 %
Prated	5.32 kW	6.00 kW
SCOP	5.17	3.69
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.32 kW	5.40 kW
COP Tj = -7°C	4.89	3.19
Pdh Tj = +2°C	5.31 kW	5.40 kW
COP Tj = +2°C	5.21	3.68
Pdh Tj = +7°C	5.30 kW	5.30 kW
COP Tj = +7°C	5.55	4.07
Pdh Tj = 12°C	5.30 kW	5.30 kW
COP Tj = 12°C	5.94	4.55
Pdh Tj = Tbiv	5.32 kW	5.40 kW
COP Tj = Tbiv	4.89	3.19

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Pdh Tj = TOL	5.33 kW	5.42 kW
COP Tj = TOL	4.53	2.77
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	4 W	4 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.70 kW	0.70 kW
Annual energy consumption Qhe	2402 kWh	3398 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	200 %	140 %
Prated	5.32 kW	3.38 kW

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SCOP	5.21	3.97
Tbiv	4 °C	4 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	5.32 kW	5.38 kW
COP Tj = +2°C	4.75	3.02
Pdh Tj = +7°C	5.31 kW	5.36 kW
COP Tj = +7°C	5.16	3.46
Pdh Tj = 12°C	5.30 kW	5.33 kW
COP Tj = 12°C	5.69	4.23
Pdh Tj = Tbiv	5.31 kW	5.37 kW
COP Tj = Tbiv	4.98	3.23
Pdh Tj = TOL	5.32 kW	5.38 kW
COP Tj = TOL	4.75	3.02
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	4 W	4 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.70 kW	0.70 kW

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Annual energy consumption Q_{he}	1591 kWh	2259 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	143 %
Prated	5.32 kW	5.38 kW
SCOP	3.81	3.78
Tbiv	-17 °C	-17 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.31 kW	5.35 kW
COP Tj = -7°C	5.28	3.58
Pdh Tj = +2°C	5.30 kW	5.34 kW
COP Tj = +2°C	5.58	4.00
Pdh Tj = +7°C	5.30 kW	5.33 kW
COP Tj = +7°C	5.83	4.40
Pdh Tj = 12°C	5.30 kW	5.32 kW

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COP Tj = 12°C	5.88	4.76
Pdh Tj = Tbiv	5.31 kW	5.37 kW
COP Tj = Tbiv	4.99	3.24
Pdh Tj = TOL	5.31 kW	5.37 kW
COP Tj = TOL	5.05	3.30
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	4 W	4 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.70 kW	0.70 kW
Annual energy consumption Qhe	2821 kWh	4026 kWh

Model: VWF 57/4 35 & 55

General Data

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