

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

Summary of	VWF 117/4	Reg. No.	40046300
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 117/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.5 kg		

Model: VWF 118/4 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	11.12 kW	11.27 kW
El input	2.24 kW	3.56 kW
COP	4.96	3.17
Indoor water flow rate	1.92 m ³ /h	1.24 m ³ /h

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	212 %	149 %
Prated	11.23 kW	13.00 kW
SCOP	5.50	3.92
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.22 kW	11.40 kW
COP Tj = -7°C	5.16	3.38
Pdh Tj = +2°C	11.20 kW	11.30 kW
COP Tj = +2°C	5.49	3.89
Pdh Tj = +7°C	11.19 kW	11.30 kW
COP Tj = +7°C	5.85	4.30
Pdh Tj = 12°C	11.17 kW	11.20 kW
COP Tj = 12°C	6.26	4.80
Pdh Tj = Tbiv	11.22 kW	11.40 kW
COP Tj = Tbiv	5.16	3.38

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Pdh Tj = TOL	11.24 kW	11.40 kW
COP Tj = TOL	4.78	2.94
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	1.50 kW	1.50 kW
Annual energy consumption Qhe	4761 kWh	6757 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	215 %	150 %
Prated	11.13 kW	11.38 kW

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SCOP	5.57	3.95
Tbiv	4 °C	4 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	11.23 kW	11.38 kW
COP Tj = +2°C	5.01	3.20
Pdh Tj = +7°C	11.20 kW	11.32 kW
COP Tj = +7°C	5.44	3.66
Pdh Tj = 12°C	11.18 kW	11.26 kW
COP Tj = 12°C	6.00	4.47
Pdh Tj = Tbiv	11.21 kW	11.35 kW
COP Tj = Tbiv	5.25	3.42
Pdh Tj = TOL	11.23 kW	11.38 kW
COP Tj = TOL	5.01	3.20
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.50 kW	1.50 kW

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Annual energy consumption Q _{he}	3136 kWh	4474 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	219 %	153 %
Prated	11.23 kW	11.38 kW
SCOP	5.68	4.02
T _{biv}	-17 °C	-17 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	11.20 kW	11.31 kW
COP T _j = -7°C	5.57	3.78
P _{dh} T _j = +2°C	11.19 kW	11.28 kW
COP T _j = +2°C	5.88	4.22
P _{dh} T _j = +7°C	11.18 kW	11.25 kW
COP T _j = +7°C	6.15	4.65
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.50 kW	1.50 kW
Annual energy consumption Qhe	5603 kWh	8017 kWh

Model: VWF 117/4 35 & 55

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