

$$\operatorname{\textit{Page}}\ 1$$ of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	VWF 157/4	Reg. No.	40046301
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	VWF 157/4	VWF 157/4	
Heat Pump Type	Brine/Water		
Refrigerant	R410a	R410a	
Mass Of Refrigerant	3.05 kg		



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

Model: VWF 157/4 35 & 55

General Data	
Power supply	3x400V 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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.28 kW	14.55 kW
El input	2.93 kW	4.53 kW
СОР	4.87	3.21
Indoor water flow rate	2.45 m³/h	1.60 m³/h

Average Climate

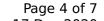


 $$\operatorname{\textit{Page}}\xspace$ 3 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	208 %	150 %
Prated	14.48 kW	17.00 kW
SCOP	5.39	3.94
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	14.46 kW	14.70 kW
COP Tj = -7°C	5.08	3.42
Pdh Tj = +2°C	14.44 kW	14.60 kW
COP Tj = +2°C	5.38	3.91
Pdh Tj = +7°C	14.42 kW	14.60 kW
COP Tj = +7°C	5.69	4.29
Pdh Tj = 12°C	14.39 kW	14.50 kW
COP Tj = 12°C	6.05	4.75
Pdh Tj = Tbiv	14.46 kW	14.70 kW
COP Tj = Tbiv	5.08	3.42

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





This information was generated by the HP KEYMARK database on 17 Dec 202		
Pdh Tj = TOL	14.50 kW	14.80 kW
COP Tj = TOL	4.73	3.00
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	1.90 kW

Warmer Climate

Annual energy consumption Qhe

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

6268 kWh

8697 kWh

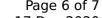
EN 14825		
	Low temperature	Medium temperature
η_{s}	210 %	151 %
Prated	14.48 kW	14.72 kW



Page 5 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

THIS IIIIOTHIALION WAS	generated by the HP K	LETMARK database on 17 Dec 2020
SCOP	5.45	3.97
Tbiv	4 °C	4 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	14.48 kW	14.72 kW
COP Tj = +2°C	4.94	3.25
Pdh Tj = +7°C	14.44 kW	16.63 kW
$COPTj = +7^{\circ}C$	5.33	3.69
Pdh Tj = 12°C	14.41 kW	14.53 kW
COP Tj = 12°C	5.82	4.44
Pdh Tj = Tbiv	14.46 kW	14.68 kW
COP Tj = Tbiv	5.16	3.46
Pdh Tj = TOL	14.48 kW	14.72 kW
COP Tj = TOL	4.94	3.25
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	1.90 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





 $$\operatorname{\textit{Page}}\xspace$ 6 of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

Annual energy consumption Qhe	4132 kWh 5	5758 kWh
-------------------------------	------------	----------

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	214 %	153 %	
Prated	14.48 kW	14.72 kW	
SCOP	5.55	4.03	
Tbiv	-17 °C	-17 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	14.43 kW	14.62 kW	
COP Tj = -7°C	5.45	3.81	
Pdh Tj = +2°C	14.41 kW	14.56 kW	
COP Tj = +2°C	5.72	4.22	
Pdh Tj = +7°C	14.40 kW	14.51 kW	
COP Tj = +7°C	5.95	4.61	
Pdh Tj = 12°C	14.39 kW	14.47 kW	

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



 $$\operatorname{\textit{Page}}\ 7$$ of 7 This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = 12°C	6.00	4.95
Pdh Tj = Tbiv	14.46 kW	14.68 kW
COP Tj = Tbiv	5.17	3.46
Pdh Tj = TOL	14.45 kW	14.66 kW
COP Tj = TOL	5.22	3.53
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	7 W	7 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	1.90 kW
Annual energy consumption Qhe	7399 kWh	10335 kWh