

This information was generated by the HP KEYMARK database on 18 Mar 2022

[Login](#)

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 Institute GmbH		
Subtype title	VWF 157/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.05 kg		
Certification Date	28.04.2021		
Testing basis	DIN EN 14511-1:2019-07; EN 14511-1:2018 DIN EN 14511-2:2019-07; EN 14511-2:2018 DIN EN 14511-3:2019-07; EN 14511-3:2018 DIN EN 14511-4:2019-07; EN 14511-4:2018 EN 12102-1:2018-02; EN 12102-1:2017		

Model: VWF 157/4

Configure model	
Model name	VWF 157/4
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.39 kW	14.65 kW
El input	3.07 kW	4.67 kW
COP	4.69	3.14

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

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	48 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	196 %	143 %
Prated	14.39 kW	14.65 kW
SCOP	5.09	3.77
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.39 kW	14.62 kW
COP Tj = -7°C	4.74	3.25
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	14.36 kW	14.53 kW
COP Tj = +2°C	5.03	3.71
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	14.33 kW	14.47 kW
COP Tj = +7°C	5.32	4.07
Cdh Tj = +7 °C	1.00	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	14.30 kW	14.41 kW
COP Tj = 12°C	5.66	4.50
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	14.39 kW	14.65 kW
COP Tj = Tbiv	4.69	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.39 kW	14.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	5843 kWh	8039 kWh

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	48 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	198 %	144 %
Prated	14.39 kW	14.65 kW
SCOP	5.15	3.79
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	14.39 kW	14.65 kW
COP Tj = +2°C	4.69	3.14
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	14.36 kW	14.57 kW
COP Tj = +7°C	4.96	3.49
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	14.32 kW	14.45 kW
COP Tj = 12°C	5.43	4.20
Cdh Tj = +12 °C	1.00	1.00

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	14.39 kW	14.65 kW
COP Tj = Tbiv	4.69	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.39 kW	14.65 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	3731 kWh	5160 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	48 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	Low temperature	Medium temperature
η_s	200 %	145 %
Prated	14.39 kW	14.65 kW
SCOP	5.21	3.84
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	14.35 kW	14.55 kW
COP Tj = -7°C	5.08	3.60
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	14.33 kW	14.48 kW
COP Tj = +2°C	5.34	3.99
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	14.31 kW	14.43 kW
COP Tj = +7°C	5.56	4.36
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	14.31 kW	14.39 kW
COP Tj = 12°C	5.62	4.69
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	14.39 kW	14.65 kW
COP Tj = Tbiv	4.69	3.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.39 kW	14.65 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	6807 kWh	9416 kWh
Cdh Tj = -15 °C	1.00	1.00