

Subtype VWF 57/4

Certificate Holder	Vaillant GmbH
Address	Berghauser Str. 40
ZIP	42859
City	Remscheid
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	VWF 57/4
Registration number	011-1W0749
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.5 kg
Certification Date	28.04.2021

Model VWF 57/4

Model name	VWF 57/4
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.28 kW	5.34 kW
El input	1.20 kW	1.85 kW
COP	4.41	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	131 %
Prated	5.28 kW	5.34 kW
SCOP	4.79	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.27 kW	5.34 kW
COP Tj = -7°C	4.46	2.99
Cdh Tj = -7 °C	0.99	1.00
Pdh Tj = +2°C	5.27 kW	5.31 kW
COP Tj = +2°C	4.76	3.44
Cdh Tj = +2 °C	0.99	1.00
Pdh Tj = +7°C	5.26 kW	5.30 kW

COP Tj = +7°C	5.06	3.79
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.25 kW	5.28 kW
COP Tj = 12°C	5.40	4.22
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.28 kW	5.34 kW
COP Tj = Tbiv	4.41	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.28 kW	5.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.41	2.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2275 kWh	3171 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	188 %	134 %
Prated	5.28 kW	5.34 kW
SCOP	4.91	3.55
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.27 kW	5.32 kW
COP Tj = -7°C	4.80	3.34
Cdh Tj = -7 °C	0.99	1.00
Pdh Tj = +2°C	5.26 kW	5.30 kW
COP Tj = +2°C	5.08	3.72
Cdh Tj = +2 °C	0.99	1.00
Pdh Tj = +7°C	5.25 kW	5.29 kW
COP Tj = +7°C	5.30	4.08
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.25 kW	5.28 kW
COP Tj = 12°C	5.36	4.41
Cdh Tj = +12 °C	0.99	0.99

Pdh Tj = Tbiv	5.28 kW	5.34 kW
COP Tj = Tbiv	4.41	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.28 kW	5.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.41	2.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2648 kWh	3713 kWh
Cdh Tj = -15 °C	0.99	1.00

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	186 %	132 %
Prated	5.28 kW	5.34 kW
SCOP	4.85	3.51
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.28 kW	5.34 kW
COP Tj = +2°C	4.41	2.89
Cdh Tj = +2 °C	0.99	1.00
Pdh Tj = +7°C	5.27 kW	5.32 kW
COP Tj = +7°C	4.69	3.23
Cdh Tj = +7 °C	0.99	1.00
Pdh Tj = 12°C	5.26 kW	5.29 kW
COP Tj = 12°C	5.17	3.93
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.28 kW	5.34 kW
COP Tj = Tbiv	4.41	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.28 kW	5.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.41	2.89

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1453 kWh	2036 kWh

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Units	Indoor	
Climate zone (for heating)	Warmer Climate, Colder Climate	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Brine/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
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EN 14511-2 Heating		
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EN 12102-1 Average Climate		
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2275 kWh	3171 kWh

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TOL	2 °C	2 °C
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COP Tj = +2°C	4.41	2.89
Cdh Tj = +2 °C	0.99	1.00
Pdh Tj = +7°C	5.27 kW	5.32 kW
COP Tj = +7°C	4.69	3.23
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Pdh Tj = 12°C	5.26 kW	5.29 kW
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Cdh Tj = +12 °C	0.99	0.99
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WTOL	65 °C	65 °C
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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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1453 kWh	2036 kWh