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Login

Summary of	VWF 57/4	Reg. No.	40045822
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 57/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.5 kg		
Certification Date	28.04.2021		

Model: VWF 57/4

Configure model	
Model name	VWF 57/4
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	5.28 kW	5.34 kW
El input	1.20 kW	1.85 kW
COP	4.41	2.89

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

EN 12102-1

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

EN 14825

	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

Warmer Climate

EN 12102-1

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

EN 14825

	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

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

	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

Model: VWF 58/4

Configure model	
Model name	VWF 58/4
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	5.28 kW	5.34 kW
El input	1.20 kW	1.85 kW
COP	4.41	2.89

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

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
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Cdh Tj = +7 °C	0.99	0.99

Pdh Tj = 12°C	5.25 kW	5.28 kW
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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

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825		
	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
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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

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	41 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

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Pdh Tj = 12°C	5.25 kW	5.28 kW
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