Login

Summary of	VWF 197/4	Reg. No.	40046302
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 197/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.95 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 197/4

Configure model	
Model name	VWF 197/4
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	19.62 kW	19.94 kW
El input	4.32 kW	6.26 kW
COP	4.54	3.18

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	48 dB(A)	48 dB(A)
Sound power level outdoor	- dB(A)	- dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	187 %	142 %
Prated	19.62 kW	19.94 kW
SCOP	4.88	3.75
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	19.61 kW	19.91 kW
COP Tj = -7°C	4.59	3.29
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	19.58 kW	19.79 kW
COP Tj = +2°C	4.83	3.70
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	19.54 kW	19.72 kW
COP Tj = +7°C	5.07	4.01
Cdh Tj = +7 °C	1.00	1.00

Pdh Tj = 12°C	19.51 kW	19.65 kW
COP Tj = 12°C	5.33	4.39
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	19.62 kW	19.94 kW
COP Tj = Tbiv	4.54	3.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.62 kW	19.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	3.18
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	8308 kWh	10986 kWh

Warmer Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
η_s	189 %	143 %
Prated	19.62 kW	19.94 kW
SCOP	4.93	3.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	19.62 kW	19.94 kW
COP Tj = +2°C	4.54	3.18
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	19.58 kW	19.84 kW
COP Tj = +7°C	4.77	3.50
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	19.53 kW	19.69 kW
COP Tj = 12°C	5.16	4.13
Cdh Tj = +12 °C	1.00	1.00

Pdh Tj = Tbiv	19.62 kW	19.94 kW
COP Tj = Tbiv	4.54	3.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.62 kW	19.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	3.18
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	5314 kWh	7057 kWh

Colder Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	191 %	144 %
Prated	19.62 kW	19.94 kW
SCOP	4.98	3.81
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	19.57 kW	19.81 kW
COP Tj = -7°C	4.86	3.61
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	19.54 kW	19.73 kW
COP Tj = +2°C	5.08	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	19.52 kW	19.67 kW
COP Tj = +7°C	5.25	4.27
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	19.51 kW	19.62 kW
COP Tj = 12°C	5.30	4.54
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	19.62 kW	19.94 kW
COP Tj = Tbiv	4.54	3.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.62 kW	19.94 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.54	3.18
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	9713 kWh	12894 kWh
Cdh Tj = -15 °C	1.00	1.00