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#### Login

Summary of	VWF 197/4	Reg. No.	40046302		
Certificate H	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 14511-4		
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	

EN 14511-2			
Low temperature Medium temperature			
Heat output	19.62 kW	19.94 kW	
El input	4.32 kW	6.26 kW	
СОР	4.54	3.18	

### Warmer Climate

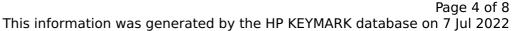
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EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	48 dB(A)	48 dB(A)		
Sound power level outdoor - dB(A) - dB(A)				

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	

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Pdh Tj = Tbiv19.62 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 7 W 7 W Poff PTO 7 W 7 W **PSB** 7 W 7 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity

### Colder Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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)		

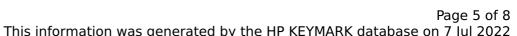
0.00 kW

5314 kWh

0.00 kW

7057 kWh

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	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
$COPTj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	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





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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
РТО	7 W	7 W
PSB	7 W	7 W
PCK	o w	o 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

# 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
$\eta_{S}$	187 %	142 %





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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
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	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



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	-	
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	8308 kWh	10986 kWh