This information was generated by the HP KEYMARK database on 17 Dec 2020

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		
Name of testing laboratory	VDE Testing and Certification Institute GmbH		
Subtype title	VWF 197/4		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.95 kg		

Model: VWF 197/4 35 & 55

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	19.52 kW	19.83 kW
El input	4.18 kW	6.12 kW
COP	4.67	3.24
Indoor water flow rate	3.32 m³/h	2.18 m³/h

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	195 %	147 %
Prated	19.69 kW	23.00 kW
SCOP	5.07	3.88
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	19.68 kW	20.00 kW
COP Tj = -7°C	4.82	3.43
Pdh Tj = +2°C	19.64 kW	19.90 kW
COP Tj = +2°C	5.06	3.85
Pdh Tj = +7°C	19.61 kW	19.80 kW
COP Tj = +7°C	5.30	4.17
Pdh Tj = 12°C	19.58 kW	19.70 kW
COP Tj = 12°C	5.58	4.56
Pdh Tj = Tbiv	19.68 kW	20.00 kW
COP Tj = Tbiv	4.82	3.43

Pdh Tj = TOL	19.72 kW	20.10 kW
COP Tj = TOL	4.54	3.04
Cdh	0.99	0.99
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	2.60 kW	2.60 kW
Annual energy consumption Qhe	9064 kWh	12017 kWh

Warmer Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	148 %
Prated	19.69 kW	20.02 kW

SCOP	5.12	3.91
Tbiv	4 °C	4 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	19.69 kW	20.02 kW
COP Tj = +2°C	4.71	3.27
Pdh Tj = +7°C	19.65 kW	19.91 kW
COP Tj = +7°C	5.02	3.66
Pdh Tj = 12°C	19.60 kW	19.76 kW
COP Tj = 12°C	5.40	4.30
Pdh Tj = Tbiv	19.67 kW	19.96 kW
COP Tj = Tbiv	4.89	3.46
Pdh Tj = TOL	19.69 kW	20.02 kW
COP Tj = TOL	4.71	3.27
Cdh	0.99	0.99
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	2.60 kW	2.60 kW

Annual energy consumption Qhe	5983 kWh	7962 kWh

Colder Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	200 %	150 %
Prated	19.69 kW	20.02 kW
SCOP	5.19	3.96
Tbiv	-17 °C	-17 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	19.63 kW	19.88 kW
COP Tj = -7°C	5.11	3.76
Pdh Tj = +2°C	19.61 kW	19.80 kW
COP Tj = +2°C	5.33	4.11
Pdh Tj = +7°C	19.59 kW	19.74 kW
COP Tj = +7°C	5.50	4.44
Pdh Tj = 12°C	19.58 kW	19.69 kW

COP Tj = 12°C	5.54	4.72
Pdh Tj = Tbiv	19.66 kW	19.96 kW
COP Tj = Tbiv	4.89	3.46
Pdh Tj = TOL	19.66 kW	19.95 kW
COP Tj = TOL	4.94	3.52
Cdh	0.99	0.99
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	2.60 kW	2.60 kW
Annual energy consumption Qhe	10753 kWh	14322 kWh