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Summary of	Vitocal 2xx-G B13	Reg. No.	011-1W0210
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	TÜV Rheinland Energy GmbH		
Subtype title	Vitocal 2xx-G B13		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.15 kg		
Certification Date	06.10.2020		

Model: Vitocal 200-G BWC 201.B13

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	13.19 kW	12.17 kW
El input	2.89 kW	4.05 kW
COP	4.60	3.01
Indoor water flow rate	2.33 m³/h	1.35 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	49 dB(A)

EN 14825

		Low temperature	Medium temperature
Pdesignh	13.00 kW		
η_s	189 %	141 %	
Prated	13.19 kW	12.17 kW	
SCOP	4.94	3.73	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	13.18 kW	12.23 kW	
COP Tj = -7°C	4.63	3.12	
Cdh	0.99	0.99	
Pdh Tj = +2°C	13.23 kW	12.63 kW	
COP Tj = +2°C	4.76	3.67	
Cdh	0.99	0.99	
Pdh Tj = +7°C	13.28 kW	12.88 kW	
COP Tj = +7°C	5.13	4.08	
Cdh	0.99	0.99	

Pdh Tj = 12°C	13.53 kW	13.12 kW
COP Tj = 12°C	5.34	4.46
Cdh	0.99	0.99
Pdh Tj = Tbiv	13.19 kW	12.17 kW
COP Tj = Tbiv	4.60	3.00
Pdh Tj = TOL	13.19 kW	12.17 kW
COP Tj = TOL	4.60	3.00
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	5440 kWh	6641 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	49 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	192 %	142 %
Prated	13.19 kW	12.17 kW
SCOP	5.00	3.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.19 kW	12.17 kW
COP Tj = +2°C	4.60	3.00
Cdh	0.99	0.99
Pdh Tj = +7°C	13.29 kW	12.45 kW
COP Tj = +7°C	4.84	3.42
Cdh	0.99	0.99
Pdh Tj = 12°C	13.44 kW	12.98 kW
COP Tj = 12°C	5.22	4.22
Cdh	0.99	0.99
Pdh Tj = Tbiv	13.19 kW	12.17 kW
COP Tj = Tbiv	4.60	3.00
Pdh Tj = TOL	13.19 kW	12.17 kW
COP Tj = TOL	4.60	3.00
Cdh	0.99	0.99

WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3470 kWh	4279 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	194 %	145 %
Prated	13.19 kW	12.17 kW
SCOP	5.05	3.82
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C

Pdh Tj = -7°C	13.32 kW	12.55 kW
COP Tj = -7°C	4.94	3.56
Cdh	0.99	0.99
Pdh Tj = +2°C	13.39 kW	12.83 kW
COP Tj = +2°C	5.13	3.99
Cdh	0.99	0.99
Pdh Tj = +7°C	13.47 kW	13.05 kW
COP Tj = +7°C	5.31	4.36
Cdh	0.99	0.99
Pdh Tj = 12°C	13.48 kW	13.20 kW
COP Tj = 12°C	5.25	4.61
Cdh	0.99	0.99
Pdh Tj = Tbiv	13.19 kW	12.17 kW
COP Tj = Tbiv	4.60	3.00
Pdh Tj = TOL	13.19 kW	12.17 kW
COP Tj = TOL	4.60	3.00
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	0 W	0 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6339 kWh	7747 kWh

Model: Vitocal 200-G BWC 201.B13 SC

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Power supply	3x400V 50Hz

Heating

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