

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
СОР	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		
$\eta_{s}$	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	o w	0 W
РТО	8 W	0 W
PSB	0 W	0 W
PCK	o 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
$\eta_{s}$	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	o w	o w
РТО	o w	o w
PSB	0 W	o w
PCK	o w	o 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 <sub>s</sub>	194 %	145 %	
Prated	13.19 kW	12.17 kW	
SCOP	5.05	3.82	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	





This information was generated by the HP KEYMARK database on 17 Dec 2020				
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		
$COPTj = +2^{\circ}C$	5.13	3.99		
Cdh	0.99	0.99		
Pdh Tj = $+7^{\circ}$ 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	o w	0 W		
РТО	o w	0 W		
PSB	o w	o w		



#### Page 8 of 15

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

PCK	0 W	o 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

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	
СОР	4.60	3.01	
Indoor water flow rate	2.33 m³/h	1.35 m³/h	

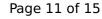
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

## 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		
$\eta_{s}$	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       4.60       3.00         COP Tj = TOL       4.60       3.00         Cdh       0.99       0.99         WTOL       65 °C       65 °C         Poff       0 W       0 W         PSB       0 W       0 W         PCK       0 W       0 W         Supplementary Heater: Type of energy input       electrical         Supplementary Heater: PSUP       0.00 kW       0.00 kW         Backup Heater       0.00 kW       6641 kWh	This information we	as generate	a by the fit RETHAR	C database on
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         Supplementary Heater: PSUP       0.00 kW       0.00 kW         Backup Heater       0.00 kW	Pdh Tj = 12°C	13.53 kW	13.12 kW	
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         Supplementary Heater: PSUP       0.00 kW       0.00 kW         Backup Heater       0.00 kW	COP Tj = 12°C	5.34	4.46	
COP Tj = Tbiv	Cdh	0.99	0.99	
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         Supplementary Heater: PSUP       0.00 kW         Backup Heater       0.00 kW	Pdh Tj = Tbiv	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         Supplementary Heater: PSUP       0.00 kW         Backup Heater       0.00 kW	COP Tj = Tbiv	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           Supplementary Heater: PSUP         0.00 kW         0.00 kW           Backup Heater         0.00 kW	Pdh Tj = TOL	13.19 kW	12.17 kW	
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  Backup Heater 0.00 kW	COP Tj = TOL	4.60	3.00	
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	Cdh	0.99	0.99	
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  Backup Heater 0.00 kW	WTOL	65 °C	65 °C	
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	Poff	o w	o 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	PTO	8 W	o w	
Supplementary Heater: Type of energy input electrical electrical  Supplementary Heater: PSUP 0.00 kW 0.00 kW  Backup Heater 0.00 kW	PSB	o w	o w	
Supplementary Heater: PSUP 0.00 kW 0.00 kW  Backup Heater 0.00 kW	PCK	o w	o w	
Backup Heater 0.00 kW	Supplementary Heater: Type of energy input	electrical	electrical	
	Supplementary Heater: PSUP	0.00 kW	0.00 kW	
Annual energy consumption Qhe 5440 kWh 6641 kWh	Backup Heater	0.00 kW		
	Annual energy consumption Qhe	5440 kWh	6641 kWh	

#### Warmer Climate

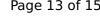
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	49 dB(A)



 $$\operatorname{\textit{Page}}\ 12$$  of 15 This information was generated by the HP KEYMARK database on 17 Dec 2020

#### EN 14825

LN 14025			
	Low temperature	Medium temperature	
$\eta_{s}$	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	





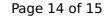
 $$\operatorname{\textit{Page}}\ 13$$  of 15 This information was generated by the HP KEYMARK database on 17 Dec 2020

WTOL	65 °C	65 °C
Poff	o w	o w
РТО	o w	o w
PSB	0 W	o w
PCK	o w	o 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	
$\eta_{s}$	194 %	145 %	
Prated	13.19 kW	12.17 kW	
SCOP	5.05	3.82	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	





This information was generated by the HP KEYMARK database on 17 Dec 2020				
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		
$COPTj = +7^{\circ}C$	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		
РТО	o w	o w		
PSB	o w	o w		



# $$\operatorname{\textit{Page}}\ 15$$ of 15 This information was generated by the HP KEYMARK database on 17 Dec 2020

PCK	0 W	o 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