

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

Summary of	Vitocal 2xx-G B17	Reg. No.	011-1W0211
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	Heat Pump Test Center WPZ		
Subtype title	Vitocal 2xx-G B17		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.6 kg		
Certification Date	18.08.2020		

## Model: VITOCAL 200-G BWC 201.B17

### General Data

Power supply	3x400V 50Hz
--------------	-------------

## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	17.31 kW	16.13 kW
El input	3.84 kW	5.40 kW
COP	4.51	2.99
Indoor water flow rate	2.99 m <sup>3</sup> /h	1.74 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	failed
Complete power supply failure	failed
Defrost test	failed
Starting and operating test	failed

## Average Climate

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

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

### EN 14825

		Low temperature	Medium temperature
P <sub>designh</sub>	17.00 kW		
$\eta_s$	184 %	140 %	
P <sub>rated</sub>	17.31 kW	16.13 kW	
SCOP	4.82	3.71	
T <sub>biv</sub>	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
P <sub>dh</sub> T <sub>j</sub> = -7°C	17.34 kW	16.25 kW	
COP T <sub>j</sub> = -7°C	4.54	3.13	
C <sub>dh</sub>	0.99	0.99	
P <sub>dh</sub> T <sub>j</sub> = +2°C	17.44 kW	16.69 kW	
COP T <sub>j</sub> = +2°C	4.79	3.68	
C <sub>dh</sub>	0.99	0.99	
P <sub>dh</sub> T <sub>j</sub> = +7°C	17.49 kW	16.92 kW	
COP T <sub>j</sub> = +7°C	5.04	4.05	
C <sub>dh</sub>	0.99	0.99	

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

Pdh Tj = 12°C	17.60 kW	17.12 kW
COP Tj = 12°C	5.26	4.46
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.31 kW	16.13 kW
COP Tj = Tbiv	4.51	2.99
Pdh Tj = TOL	17.31 kW	16.13 kW
COP Tj = TOL	4.51	2.99
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	15 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	7293 kWh	8912 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	47 dB(A)	47 dB(A)

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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	187 %	140 %
Prated	17.35 kW	16.12 kW
SCOP	4.87	3.71
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	17.35 kW	16.12 kW
COP Tj = +2°C	4.52	3.00
Cdh	0.99	0.99
Pdh Tj = +7°C	17.44 kW	16.45 kW
COP Tj = +7°C	4.74	3.43
Cdh	0.99	0.99
Pdh Tj = 12°C	17.56 kW	16.98 kW
COP Tj = 12°C	5.12	4.18
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.12 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL	17.35 kW	16.12 kW
COP Tj = TOL	4.52	3.00
Cdh	0.99	0.99

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

WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	16 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4659 kWh	5754 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	47 dB(A)	47 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	189 %	143 %
Prated	17.35 kW	16.15 kW
SCOP	4.92	3.79
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	17.47 kW	16.60 kW
COP Tj = -7°C	4.82	3.57
Cdh	0.99	0.99
Pdh Tj = +2°C	17.55 kW	16.87 kW
COP Tj = +2°C	5.04	3.97
Cdh	0.99	0.99
Pdh Tj = +7°C	17.58 kW	17.05 kW
COP Tj = +7°C	5.21	3.84
Cdh	0.99	0.99
Pdh Tj = 12°C	17.63 kW	17.17 kW
COP Tj = 12°C	5.25	4.63
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.15 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL	17.35 kW	16.15 kW
COP Tj = TOL	4.52	3.00
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	17 W	20 W

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

PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	8512 kWh	10410 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.47	9.65
COP Tj = -15°C (if TOL<-20°C)	6.39	3.51
Cdh	0.99	0.99



## Model: VITOCAL 200-G BWC 201.B17 SC

### General Data

Power supply	3x400V 50Hz
--------------	-------------

## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	17.31 kW	16.13 kW
El input	3.84 kW	5.40 kW
COP	4.51	2.99
Indoor water flow rate	2.99 m <sup>3</sup> /h	1.74 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	failed
Complete power supply failure	failed
Defrost test	failed
Starting and operating test	failed

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

### EN 14825

		Low temperature	Medium temperature
P <sub>designh</sub>	17.00 kW		
$\eta_s$	184 %	140 %	
P <sub>rated</sub>	17.31 kW	16.13 kW	
SCOP	4.82	3.71	
T <sub>biv</sub>	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
P <sub>dh</sub> T <sub>j</sub> = -7°C	17.34 kW	16.25 kW	
COP T <sub>j</sub> = -7°C	4.54	3.13	
C <sub>dh</sub>	0.99	0.99	
P <sub>dh</sub> T <sub>j</sub> = +2°C	17.44 kW	16.69 kW	
COP T <sub>j</sub> = +2°C	4.79	3.68	
C <sub>dh</sub>	0.99	0.99	
P <sub>dh</sub> T <sub>j</sub> = +7°C	17.49 kW	16.92 kW	
COP T <sub>j</sub> = +7°C	5.04	4.05	
C <sub>dh</sub>	0.99	0.99	

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

Pdh Tj = 12°C	17.60 kW	17.12 kW
COP Tj = 12°C	5.26	4.46
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.31 kW	16.13 kW
COP Tj = Tbiv	4.51	2.99
Pdh Tj = TOL	17.31 kW	16.13 kW
COP Tj = TOL	4.51	2.99
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	15 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	7293 kWh	8912 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	47 dB(A)	47 dB(A)

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

# EN 14825

	Low temperature	Medium temperature
$\eta_s$	187 %	140 %
Prated	17.35 kW	16.12 kW
SCOP	4.87	3.71
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	17.35 kW	16.12 kW
COP Tj = +2°C	4.52	3.00
Cdh	0.99	0.99
Pdh Tj = +7°C	17.44 kW	16.45 kW
COP Tj = +7°C	4.74	3.43
Cdh	0.99	0.99
Pdh Tj = 12°C	17.56 kW	16.98 kW
COP Tj = 12°C	5.12	4.18
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.12 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL	17.35 kW	16.12 kW
COP Tj = TOL	4.52	3.00
Cdh	0.99	0.99

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

WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	16 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4659 kWh	5754 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	47 dB(A)	47 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	189 %	143 %
Prated	17.35 kW	16.15 kW
SCOP	4.92	3.79
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	17.47 kW	16.60 kW
COP Tj = -7°C	4.82	3.57
Cdh	0.99	0.99
Pdh Tj = +2°C	17.55 kW	16.87 kW
COP Tj = +2°C	5.04	3.97
Cdh	0.99	0.99
Pdh Tj = +7°C	17.58 kW	17.05 kW
COP Tj = +7°C	5.21	3.84
Cdh	0.99	0.99
Pdh Tj = 12°C	17.63 kW	17.17 kW
COP Tj = 12°C	5.25	4.63
Cdh	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.15 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL	17.35 kW	16.15 kW
COP Tj = TOL	4.52	3.00
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	17 W	20 W

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

PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	8512 kWh	10410 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	10.47	9.65
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	6.39	3.51
C <sub>dh</sub>	0.99	0.99