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Login

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		
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

Configure model	
Model name	VITOCAL 200-G BWC 201.B17
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 14511-2		
	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

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
Pdesignh	17.00 kW		
η_s	184 %	140 %	
Prated	17.31 kW	16.13 kW	
SCOP	4.82	3.71	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	17.34 kW	16.25 kW	
COP Tj = -7°C	4.54	3.13	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	17.44 kW	16.69 kW	
COP Tj = +2°C	4.79	3.68	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	17.49 kW	16.92 kW	
COP Tj = +7°C	5.04	4.05	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	17.60 kW	17.12 kW
COP Tj = 12°C	5.26	4.46
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.31 kW	16.13 kW
COP Tj = Tbiv	4.51	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.31 kW	16.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.51	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	7293 kWh	8912 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	17.44 kW	16.45 kW
COP Tj = +7°C	4.74	3.43
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	17.56 kW	16.98 kW
COP Tj = 12°C	5.12	4.18
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.12 kW

COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.35 kW	16.12 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	3.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4659 kWh	5754 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_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
Pdh Tj = -7°C	17.47 kW	16.60 kW
COP Tj = -7°C	4.82	3.57
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	17.55 kW	16.87 kW
COP Tj = +2°C	5.04	3.97
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	17.58 kW	17.05 kW
COP Tj = +7°C	5.21	3.84
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	17.63 kW	17.17 kW
COP Tj = 12°C	5.25	4.63
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.15 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.35 kW	16.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	3.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99

WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	17 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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 Tj = -15 °C	0.99	0.99

Model: VITOCAL 200-G BWC 201.B17 SC

Configure model	
Model name	VITOCAL 200-G BWC 201.B17 SC
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 14511-2		
	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

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
Pdesignh	17.00 kW		
η_s	184 %	140 %	
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Tbiv	-10 °C	-10 °C	
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Pdh Tj = +2°C	17.44 kW	16.69 kW	
COP Tj = +2°C	4.79	3.68	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	17.49 kW	16.92 kW	
COP Tj = +7°C	5.04	4.05	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	17.60 kW	17.12 kW
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Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.31 kW	16.13 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.51	2.99
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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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	7293 kWh	8912 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_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 Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	17.44 kW	16.45 kW
COP Tj = +7°C	4.74	3.43
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	17.56 kW	16.98 kW
COP Tj = 12°C	5.12	4.18
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.12 kW

COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.35 kW	16.12 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	3.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4659 kWh	5754 kWh

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COP Tj = +2°C	5.04	3.97
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	17.58 kW	17.05 kW
COP Tj = +7°C	5.21	3.84
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	17.63 kW	17.17 kW
COP Tj = 12°C	5.25	4.63
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	17.35 kW	16.15 kW
COP Tj = Tbiv	4.52	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.35 kW	16.15 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99

WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	17 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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 Tj = -15 °C	0.99	0.99