Subtype Vitocal 2xx-G B17

Certificate Holder	Viessmann Climate Solutions SE
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Vitocal 2xx-G B17
Registration number	011-1W0211
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	
Model name	VITOCAL 200-G BWC 201.B17
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Brine+Water
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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
Annual energy consumption Qhe	7293 kWh	8912 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	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	10.47	9.65
COP Tj = -15°C (if TOL	6.39	3.51
Cdh Tj = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	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

Model VITOCAL 200-G BWC 201.B17 SC	
Model name	VITOCAL 200-G BWC 201.B17 SC
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Heat Source	Brine+Water
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	failed
Complete power supply failure	failed
Defrost test	failed
Starting and operating test	failed

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

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	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
Annual energy consumption Qhe	7293 kWh	8912 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	189 %	143 %
Prated	17.35 kW	16.15 kW
SCOP	4.92	3.79
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
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COP Tj = -7°C	4.82	3.57
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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	10.47	9.65
COP Tj = -15°C (if TOL	6.39	3.51
Cdh Tj = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	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