Subtype Vitocal 2xx-G B13	
Certificate Holder	Viessmann Climate Solutions GmbH & Co. KG
Address	Viessmannstr. 1
ZIP	35107
City	Allendorf/Eder
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Vitocal 2xx-G B13
Registration number	011-1W0210
Heat Pump Type	Brine/Water and Water/Water
Refrigerant	R410A
Mass of Refrigerant	1.95 kg
Certification Date	06.10.2020

Model Vitocal 200-G BWC 201.B13	
Model name	Vitocal 200-G BWC 201.B13
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Heat Source	Brine
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	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.27 kW	12.11 kW
El input	2.89 kW	4.11 kW
COP	4.56	2.95

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	190 %	140 %
Prated	13.19 kW	12.17 kW
SCOP	4.94	3.70
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.24 kW	12.22 kW
COP Tj = -7°C	4.63	3.09
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	13.32 kW	12.63 kW
COP Tj = +2°C	4.88	3.65
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.47 kW	12.87 kW

COP Tj = +7°C	5.17	4.06
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.58 kW	13.07 kW
COP Tj = 12°C	5.44	4.48
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	13.20 kW	12.11 kW
COP Tj = Tbiv	4.56	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	5520 kWh	6797 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	194 %	143 %
Prated	13.19 kW	12.17 kW
SCOP	5.06	3.77
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.40 kW	12.55 kW
COP Tj = -7°C	4.94	3.52
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	13.50 kW	12.82 kW
COP Tj = +2°C	5.19	3.96
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.56 kW	13.05 kW
COP Tj = +7°C	5.36	4.36
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.59 kW	13.18 kW
COP Tj = 12°C	5.41	4.67
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	13.22 kW	12.10 kW

COP Tj = Tbiv	4.57	2.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.22 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	6426 kWh	7959 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	192 %	141 %
Prated	13.19 kW	12.17 kW
SCOP	5.01	3.72
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.22 kW	12.10 kW
COP Tj = +2°C	4.57	2.94
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.35 kW	12.47 kW
COP Tj = +7°C	4.84	3.38
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.52 kW	12.96 kW
COP Tj = 12°C	5.27	4.20
Cdh Tj = +12 °C	0.997	0.998
Pdh Tj = Tbiv	13.22 kW	12.10 kW
COP Tj = Tbiv	4.57	2.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.22 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W

PTO	8 W	8 W
PSB	8 W	8 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	3520 kWh	4376 kWh

Water/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.74 kW	15.96 kW
El input	3.01 kW	4.28 kW
COP	5.90	3.73

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	246 %	185 %
Prated	19.40 kW	18.00 kW
SCOP	6.36	4.83
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.76 kW	16.28 kW
COP Tj = -7°C	5.99	4.02
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	17.86 kW	16.80 kW
COP Tj = +2°C	6.30	4.78
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	18.13 kW	17.17 kW
COP Tj = +7°C	6.74	5.36
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.26 kW	17.48 kW
COP Tj = 12°C	6.99	6.00
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	17.76 kW	16.28 kW
COP Tj = Tbiv	5.99	4.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.66 kW	2.04 kW
Annual energy consumption Qhe	6302 kWh	7696 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	222 %	177 %
Prated	28.50 kW	27.00 kW
SCOP	5.76	4.63
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	18.05 kW	16.89 kW
COP Tj = -7°C	6.65	4.96
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	18.18 kW	17.22 kW
COP Tj = +2°C	6.80	5.47
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	18.28 kW	17.48 kW
COP Tj = +7°C	6.99	5.96
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.26 kW	17.65 kW
COP Tj = 12°C	6.98	6.33
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	18.05 kW	16.89 kW
COP Tj = Tbiv	6.65	4.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.76 kW	11.04 kW
Annual energy consumption Qhe	12206 kWh	14365 kWh

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	249 %	185 %
Prated	17.31 kW	15.67 kW
SCOP	6.41	4.83
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	17.74 kW	15.96 kW
COP Tj = +2°C	5.90	3.73
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	17.90 kW	16.49 kW
COP Tj = +7°C	6.22	4.34
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.15 kW	17.29 kW
COP Tj = 12°C	6.73	5.55
Cdh Tj = +12 °C	0.997	0.998
Pdh Tj = Tbiv	17.74 kW	15.96 kW
COP Tj = Tbiv	5.90	3.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	3605 kWh	4331 kWh

Model Vitocal 200-G BWC 201.B13 SC	
Model name	Vitocal 200-G BWC 201.B13 SC
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.27 kW	12.11 kW
El input	2.89 kW	4.11 kW
COP	4.56	2.95

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	190 %	140 %
Prated	13.19 kW	12.17 kW
SCOP	4.94	3.70
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.24 kW	12.22 kW
COP Tj = -7°C	4.63	3.09
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	13.32 kW	12.63 kW
COP Tj = +2°C	4.88	3.65
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.47 kW	12.87 kW
COP Tj = +7°C	5.17	4.06

Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.58 kW	13.07 kW
COP Tj = 12°C	5.44	4.48
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	13.20 kW	12.11 kW
COP Tj = Tbiv	4.56	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.20 kW	12.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	5520 kWh	6797 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	194 %	143 %
Prated	13.19 kW	12.17 kW
SCOP	5.06	3.77
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.40 kW	12.55 kW
COP Tj = -7°C	4.94	3.52
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	13.50 kW	12.82 kW
COP Tj = +2°C	5.19	3.96
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.56 kW	13.05 kW
COP Tj = +7°C	5.36	4.36
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.59 kW	13.18 kW
COP Tj = 12°C	5.41	4.67
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	13.22 kW	12.10 kW
COP Tj = Tbiv	4.57	2.94

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.22 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	6426 kWh	7959 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	192 %	141 %
Prated	13.19 kW	12.17 kW
SCOP	5.01	3.72
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	13.22 kW	12.10 kW
COP Tj = +2°C	4.57	2.94
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	13.35 kW	12.47 kW
COP Tj = +7°C	4.84	3.38
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	13.52 kW	12.96 kW
COP Tj = 12°C	5.27	4.20
Cdh Tj = +12 °C	0.997	0.998
Pdh Tj = Tbiv	13.22 kW	12.10 kW
COP Tj = Tbiv	4.57	2.94
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.22 kW	12.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W

PSB	8 W	8 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	3520 kWh	4376 kWh

Water/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.74 kW	15.96 kW
El input	3.01 kW	4.28 kW
COP	5.90	3.73

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	246 %	185 %
Prated	19.40 kW	18.00 kW
SCOP	6.36	4.83
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.76 kW	16.28 kW
COP Tj = -7°C	5.99	4.02
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	17.86 kW	16.80 kW
COP Tj = +2°C	6.30	4.78
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	18.13 kW	17.17 kW
COP Tj = +7°C	6.74	5.36
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.26 kW	17.48 kW
COP Tj = 12°C	6.99	6.00
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	17.76 kW	16.28 kW
COP Tj = Tbiv	5.99	4.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.66 kW	2.04 kW
Annual energy consumption Qhe	6302 kWh	7696 kWh

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	222 %	177 %
Prated	28.50 kW	27.00 kW
SCOP	5.76	4.63
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	18.05 kW	16.89 kW
COP Tj = -7°C	6.65	4.96
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	18.18 kW	17.22 kW
COP Tj = +2°C	6.80	5.47
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	18.28 kW	17.48 kW
COP Tj = +7°C	6.99	5.96
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.26 kW	17.65 kW
COP Tj = 12°C	6.98	6.33
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	18.05 kW	16.89 kW
COP Tj = Tbiv	6.65	4.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.76 kW	11.04 kW

Annual energy consumption Qhe	12206 kWh	14365 kWh

EN 14825 | Warmer Climate		
	Low temperature	Medium temperature
ηs	249 %	185 %
Prated	17.31 kW	15.67 kW
SCOP	6.41	4.83
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	17.74 kW	15.96 kW
COP Tj = +2°C	5.90	3.73
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	17.90 kW	16.49 kW
COP Tj = +7°C	6.22	4.34
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	18.15 kW	17.29 kW
COP Tj = 12°C	6.73	5.55
Cdh Tj = +12 °C	0.997	0.998
Pdh Tj = Tbiv	17.74 kW	15.96 kW
COP Tj = Tbiv	5.90	3.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.74 kW	15.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.90	3.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	8 W	8 W
PSB	8 W	8 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	3605 kWh	4331 kWh