

Subtype Vitocal 2xx-G M B10

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 M B10
Registration number	011-1W0290
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.8 kg
Certification Date	11.07.2019

Model VITOCAL 200-G BWC-M 201.B10

Model name	VITOCAL 200-G BWC-M 201.B10
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	1x230V 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	10.24 kW	9.42 kW
El input	2.27 kW	3.26 kW
COP	4.52	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	138 %
Prated	11.70 kW	10.83 kW
SCOP	4.91	3.66
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.33 kW	9.57 kW
COP Tj = -7°C	4.64	3.13
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	10.44 kW	9.81 kW
COP Tj = +2°C	4.89	3.63
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	10.54 kW	9.96 kW
COP Tj = +7°C	5.16	3.99

Cdh Tj = +7 °C	0.997	0.997
Pdh Tj = 12°C	10.59 kW	10.12 kW
COP Tj = 12°C	5.39	4.38
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	10.33 kW	9.57 kW
COP Tj = Tbiv	4.64	3.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.46 kW	1.41 kW
Annual energy consumption Qhe	4923 kWh	6117 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	177 %	136 %
Prated	16.96 kW	15.87 kW
SCOP	4.62	3.59
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.53 kW	9.87 kW
COP Tj = -7°C	5.17	3.75
Cdh Tj = -7 °C	0.997	0.997
Pdh Tj = +2°C	10.56 kW	10.00 kW
COP Tj = +2°C	5.31	4.05
Cdh Tj = +2 °C	0.997	0.997
Pdh Tj = +7°C	10.60 kW	10.14 kW
COP Tj = +7°C	5.42	4.37
Cdh Tj = +7 °C	0.997	0.997
Pdh Tj = 12°C	10.59 kW	10.20 kW
COP Tj = 12°C	5.39	4.60
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	10.53 kW	9.87 kW
COP Tj = Tbiv	5.17	3.75

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.72 kW	6.45 kW
Annual energy consumption Qhe	9039 kWh	10889 kWh
Pdh Tj = -15°C (if TOL	10.32	9.68
COP Tj = -15°C (if TOL	5.43	3.47
Cdh Tj = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	190 %	138 %
Prated	10.27 kW	9.45 kW
SCOP	4.95	3.65
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.24 kW	9.42 kW
COP Tj = +2°C	4.52	2.89
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	10.39 kW	9.67 kW
COP Tj = +7°C	4.79	3.34
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	10.52 kW	10.01 kW
COP Tj = 12°C	5.22	4.10
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	10.24 kW	9.42 kW
COP Tj = Tbiv	4.52	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 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	2771 kWh	3463 kWh

EN 14825 | Average Climate

Pdesignh	11.70 kW
Backup Heater	0.00 kW

Model VITOCAL 222-G BWT-M 201.B10

Model name	VITOCAL 222-G BWT-M 201.B10
Application	Heating + DHW + low 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	1x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	290 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	290 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	°C
Mixed water at 40°C	l

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	10.24 kW	9.42 kW
El input	2.27 kW	3.26 kW
COP	4.52	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	138 %
Prated	11.70 kW	10.83 kW
SCOP	4.91	3.66
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.33 kW	9.57 kW
COP Tj = -7°C	4.64	3.13
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	10.44 kW	9.81 kW
COP Tj = +2°C	4.89	3.63
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	10.54 kW	9.96 kW
COP Tj = +7°C	5.16	3.99
Cdh Tj = +7 °C	0.997	0.997
Pdh Tj = 12°C	10.59 kW	10.12 kW
COP Tj = 12°C	5.39	4.38
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	10.33 kW	9.57 kW
COP Tj = Tbiv	4.64	3.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

Supplementary Heater: PSUP	1.46 kW	1.41 kW
Annual energy consumption Q _{he}	4923 kWh	6117 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	177 %	136 %
Prated	16.96 kW	15.87 kW
SCOP	4.62	3.59
T _{biv}	-7 °C	-7 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7 °C	10.53 kW	9.87 kW
COP T _j = -7 °C	5.17	3.75
C _{dh} T _j = -7 °C	0.997	0.997
P _{dh} T _j = +2 °C	10.56 kW	10.00 kW
COP T _j = +2 °C	5.31	4.05
C _{dh} T _j = +2 °C	0.997	0.997
P _{dh} T _j = +7 °C	10.60 kW	10.14 kW
COP T _j = +7 °C	5.42	4.37
C _{dh} T _j = +7 °C	0.997	0.997
P _{dh} T _j = 12 °C	10.59 kW	10.20 kW
COP T _j = 12 °C	5.39	4.60
C _{dh} T _j = +12 °C	0.997	0.997
P _{dh} T _j = T _{biv}	10.53 kW	9.87 kW
COP T _j = T _{biv}	5.17	3.75
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.24 kW	9.42 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.52	2.89
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.997	0.998
WTOL	65 °C	65 °C
P _{off}	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.72 kW	6.45 kW
Annual energy consumption Q _{he}	9039 kWh	10889 kWh
P _{dh} T _j = -15 °C (if TOL	10.32	9.68
COP T _j = -15 °C (if TOL	5.43	3.47
C _{dh} T _j = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	190 %	138 %
Prated	10.27 kW	9.45 kW
SCOP	4.95	3.65
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.24 kW	9.42 kW
COP Tj = +2°C	4.52	2.89
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	10.39 kW	9.67 kW
COP Tj = +7°C	4.79	3.34
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	10.52 kW	10.01 kW
COP Tj = 12°C	5.22	4.10
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Pdh Tj = Tbiv	10.24 kW	9.42 kW
COP Tj = Tbiv	4.52	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 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	2771 kWh	3463 kWh

EN 14825 | Average Climate

Pdesignh	11.70 kW
Backup Heater	0.00 kW

Model VITOCAL 222-G BWT-M 201.B10 SC

Model name	VITOCAL 222-G BWT-M 201.B10 SC
Application	Heating + DHW + low 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	1x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	290 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	290 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	125 %
COP	3.04
Heating up time	1:12 h:min
Standby power input	33.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	290 l

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	10.24 kW	9.42 kW
El input	2.27 kW	3.26 kW
COP	4.52	2.89

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	138 %
Prated	11.70 kW	10.83 kW
SCOP	4.91	3.66
Tbiv	-7 °C	-7 °C
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Pdh Tj = +2°C	10.44 kW	9.81 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity

Supplementary Heater: PSUP	1.46 kW	1.41 kW
Annual energy consumption Q _{he}	4923 kWh	6117 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
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SCOP	4.62	3.59
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P _{dh} T _j = +2 °C	10.56 kW	10.00 kW
COP T _j = +2 °C	5.31	4.05
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P _{dh} T _j = +7 °C	10.60 kW	10.14 kW
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P _{dh} T _j = T _{biv}	10.53 kW	9.87 kW
COP T _j = T _{biv}	5.17	3.75
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.24 kW	9.42 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.52	2.89
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.997	0.998
WTOL	65 °C	65 °C
P _{off}	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.72 kW	6.45 kW
Annual energy consumption Q _{he}	9039 kWh	10889 kWh
P _{dh} T _j = -15 °C (if TOL	10.32	9.68
COP T _j = -15 °C (if TOL	5.43	3.47
C _{dh} T _j = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	48 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	190 %	138 %
Prated	10.27 kW	9.45 kW
SCOP	4.95	3.65
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.24 kW	9.42 kW
COP Tj = +2°C	4.52	2.89
Cdh Tj = +2 °C	0.997	0.998
Pdh Tj = +7°C	10.39 kW	9.67 kW
COP Tj = +7°C	4.79	3.34
Cdh Tj = +7 °C	0.997	0.998
Pdh Tj = 12°C	10.52 kW	10.01 kW
COP Tj = 12°C	5.22	4.10
Cdh Tj = +12 °C	0.997	0.997
Pdh Tj = Tbiv	10.24 kW	9.42 kW
COP Tj = Tbiv	4.52	2.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.24 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.52	2.89
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	7 W	7 W
PSB	7 W	7 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	2771 kWh	3463 kWh

EN 14825 | Average Climate

Pdesignh	11.70 kW
Backup Heater	0.00 kW