

Subtype Vitocal 2xx-G B10

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 B10
Registration number	011-1W0287
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.4 kg
Certification Date	11.07.2019

Model VITOCAL 200-G BWC 201.B10

Model name	VITOCAL 200-G BWC 201.B10
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	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	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 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	150 %
Prated	11.72 kW	10.81 kW
SCOP	5.32	3.97
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.31 kW	9.51 kW
COP Tj = -7°C	4.99	3.23
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	10.40 kW	9.78 kW
COP Tj = +2°C	5.33	3.84
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.96 kW
COP Tj = +7°C	5.67	4.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.58 kW	10.15 kW
COP Tj = 12°C	6.02	4.83
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.31 kW	9.51 kW
COP Tj = Tbiv	4.99	3.23

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.31 kW	9.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.96	3.07
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	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.41 kW	1.39 kW
Annual energy consumption Qhe	4554 kWh	5630 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	206 %	143 %
Prated	17.18 kW	15.83 kW
SCOP	5.36	3.78
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.44 kW	9.78 kW
COP Tj = -7°C	5.76	3.84
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	10.48 kW	9.99 kW
COP Tj = +2°C	6.47	4.37
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.55 kW	10.16 kW
COP Tj = +7°C	6.78	4.84
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.55 kW	10.26 kW
COP Tj = 12°C	6.85	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.44 kW	9.78 kW
COP Tj = Tbiv	5.76	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.44 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	3.15
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	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.73 kW	6.35 kW
Annual energy consumption Q _{he}	7907 kWh	10312 kWh
P _{dh} T _j = -15°C (if TOL	10.47	9.65
COP T _j = -15°C (if TOL	6.39	3.51
C _{dh} T _j = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	208 %	145 %
Prated	10.27 kW	9.39 kW
SCOP	5.41	3.82
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	10.27 kW	9.39 kW
COP T _j = +2°C	4.95	3.00
C _{dh} T _j = +2 °C	0.99	0.99
P _{dh} T _j = +7°C	10.33 kW	9.66 kW
COP T _j = +7°C	5.24	3.50
C _{dh} T _j = +7 °C	0.99	0.99
P _{dh} T _j = 12°C	10.46 kW	10.02 kW
COP T _j = 12°C	5.79	4.40
C _{dh} T _j = +12 °C	0.99	0.99
P _{dh} T _j = T _{biv}	10.27 kW	9.39 kW
COP T _j = T _{biv}	4.95	3.00
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.27 kW	9.39 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.95	3.00
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 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 Q _{he}	2536 kWh	3281 kWh

Model VITOCAL 200-G BWC 201.B10 SC

Model name	VITOCAL 200-G BWC 201.B10 SC
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	n/a
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 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	150 %
Prated	11.72 kW	10.81 kW
SCOP	5.32	3.97
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	10.31 kW	9.51 kW
COP Tj = -7°C	4.99	3.23
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	10.40 kW	9.78 kW
COP Tj = +2°C	5.33	3.84
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.48 kW	9.96 kW
COP Tj = +7°C	5.67	4.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.58 kW	10.15 kW
COP Tj = 12°C	6.02	4.83
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.31 kW	9.51 kW
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WTOL	65 °C	65 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.41 kW	1.39 kW
Annual energy consumption Qhe	4554 kWh	5630 kWh

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COP Tj = +2°C	6.47	4.37
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.55 kW	10.16 kW
COP Tj = +7°C	6.78	4.84
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.55 kW	10.26 kW
COP Tj = 12°C	6.85	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.44 kW	9.78 kW
COP Tj = Tbiv	5.76	3.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.44 kW	9.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	3.15
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	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.73 kW	6.35 kW
Annual energy consumption Q _{he}	7907 kWh	10312 kWh
P _{dh} T _j = -15°C (if TOL	10.47	9.65
COP T _j = -15°C (if TOL	6.39	3.51
C _{dh} T _j = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

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Sound power level indoor	46 dB(A)	46 dB(A)

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η _s	208 %	145 %
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TOL	2 °C	2 °C
P _{dh} T _j = +2°C	10.27 kW	9.39 kW
COP T _j = +2°C	4.95	3.00
C _{dh} T _j = +2 °C	0.99	0.99
P _{dh} T _j = +7°C	10.33 kW	9.66 kW
COP T _j = +7°C	5.24	3.50
C _{dh} T _j = +7 °C	0.99	0.99
P _{dh} T _j = 12°C	10.46 kW	10.02 kW
COP T _j = 12°C	5.79	4.40
C _{dh} T _j = +12 °C	0.99	0.99
P _{dh} T _j = T _{biv}	10.27 kW	9.39 kW
COP T _j = T _{biv}	4.95	3.00
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.27 kW	9.39 kW
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C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 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 Q _{he}	2536 kWh	3281 kWh

Model VITOCAL 222-G BWT 221.B10

Model name	VITOCAL 222-G BWT 221.B10
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.11
Heating up time	1:14 h:min
Standby power input	63.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	302 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.11
Heating up time	1:14 h:min
Standby power input	63.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	302 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.11
Heating up time	1:14 h:min
Standby power input	63.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	302 l

Model VITOCAL 222-G BWT 221.B10 SC

Model name	VITOCAL 222-G BWT 221.B10 SC
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.11
Heating up time	1:14 h:min
Standby power input	63.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	302 l

EN 16147 | Colder Climate

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COP	3.11
Heating up time	1:14 h:min
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EN 16147 | Warmer Climate

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Reference hot water temperature	54.2 °C
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