

Subtype Vitocal 2xx-G B08

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 B08
Registration number	011-1W0286
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.95 kg
Certification Date	11.07.2019

Model VITOCAL 200-G BWC 201.B08

Model name	VITOCAL 200-G BWC 201.B08
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	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	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	143 %
Prated	8.60 kW	7.95 kW
SCOP	5.23	3.79
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.57 kW	6.99 kW
COP Tj = -7°C	4.93	3.16
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.63 kW	7.19 kW
COP Tj = +2°C	5.23	3.77
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.69 kW	7.31 kW
COP Tj = +7°C	5.56	4.23
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.55 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
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	1.05 kW	1.03 kW
Annual energy consumption Qhe	3398 kWh	4338 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	195 %	142 %
Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.57 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.11	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00

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	4.93 kW	4.67 kW
Annual energy consumption Q _{he}	6143 kWh	7633 kWh
P _{dh} T _j = -15°C (if TOL	7.62	7.10
COP T _j = -15°C (if TOL	5.11	3.46
C _{dh} T _j = -15 °C	0.99	0.99

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.55 kW	6.92 kW
COP T _j = +2°C	4.85	2.99
C _{dh} T _j = +2 °C	0.99	0.99
P _{dh} T _j = +7°C	7.61 kW	7.09 kW
COP T _j = +7°C	5.15	3.45
C _{dh} T _j = +7 °C	0.99	0.99
P _{dh} T _j = 12°C	7.73 kW	7.34 kW
COP T _j = 12°C	5.69	4.34
C _{dh} T _j = +12 °C	0.99	0.99
P _{dh} T _j = T _{biv}	7.55 kW	6.92 kW
COP T _j = T _{biv}	4.85	2.99
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.55 kW	6.92 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.85	2.99
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.99	1.00
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}	1897 kWh	2449 kWh

Model VITOCAL 200-G BWC 201.B08 SC

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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	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	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	143 %
Prated	8.60 kW	7.95 kW
SCOP	5.23	3.79
Tbiv	-7 °C	-7 °C
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COP Tj = +7°C	5.56	4.23
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.76 kW	7.45 kW
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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	1.05 kW	1.03 kW
Annual energy consumption Qhe	3398 kWh	4338 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
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Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh Tj = +12 °C	0.99	0.99
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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	4.93 kW	4.67 kW
Annual energy consumption Q _{he}	6095 kWh	7633 kWh
P _{dh} T _j = -15°C (if TOL	7.62	7.10
COP T _j = -15°C (if TOL	5.11	3.46
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T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
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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}	1897 kWh	2449 kWh

Model VITOCAL 222-G BWT 221.B08

Model name	VITOCAL 222-G BWT 221.B08
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	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	130 %
COP	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l

Model VITOCAL 222-G BWT 221.B08 SC

Model name	VITOCAL 222-G BWT 221.B08 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

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