

## Subtype Vitocal 2xx-G B06

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 B06
Registration number	011-1W0285
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.4 kg
Certification Date	11.07.2019

## Model VITOCAL 200-G BWC 201.B06

Model name	VITOCAL 200-G BWC 201.B06
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	40 dB(A)	40 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	6.59 kW	5.94 kW
SCOP	4.86	3.56
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.80 kW	5.23 kW
COP Tj = -7°C	4.61	3.01
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.84 kW	5.43 kW
COP Tj = +2°C	4.85	3.54
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.93 kW	5.59 kW
COP Tj = +7°C	5.18	3.96
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.98 kW	5.70 kW
COP Tj = 12°C	5.45	4.41
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.80 kW	5.23 kW
COP Tj = Tbiv	4.61	3.01

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	2.85
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	0.80 kW	0.73 kW
Annual energy consumption Qhe	2802 kWh	3452 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	133 %
Prated	9.63 kW	8.97 kW
SCOP	4.80	3.52
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.88 kW	5.38 kW
COP Tj = -7°C	5.24	3.52
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.97 kW	5.60 kW
COP Tj = +2°C	5.53	4.04
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.99 kW	5.71 kW
COP Tj = +7°C	5.73	4.48
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.98 kW	5.78 kW
COP Tj = 12°C	5.76	4.82
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.88 kW	5.38 kW
COP Tj = Tbiv	5.24	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.81 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	2.92
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	3.82 kW	3.47 kW
Annual energy consumption Q <sub>he</sub>	4939 kWh	6069 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL	5.88	5.29
COP T <sub>j</sub> = -15°C (if TOL	5.11	2.92
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.99	0.99

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	189 %	141 %
Prated	5.70 kW	5.19 kW
SCOP	4.92	3.73
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.70 kW	5.20 kW
COP T <sub>j</sub> = +2°C	5.18	2.80
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.84 kW	5.29 kW
COP T <sub>j</sub> = +7°C	4.75	3.20
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = 12°C	5.94 kW	5.61 kW
COP T <sub>j</sub> = 12°C	5.18	4.06
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	5.70 kW	5.19 kW
COP T <sub>j</sub> = T <sub>biv</sub>	5.18	2.83
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.70 kW	5.19 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.20	2.83
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	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 <sub>he</sub>	1574 kWh	1857 kWh

## Model VITOCAL 200-G BWC 201.B06 SC

Model name	VITOCAL 200-G BWC 201.B06 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	3x400V 50Hz
Off-peak product	Yes

### Brine/Water

#### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	0.73 kW
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Supplementary Heater: PSUP	3.82 kW	3.47 kW
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	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)

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η <sub>s</sub>	189 %	141 %
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SCOP	4.92	3.73
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
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COP T <sub>j</sub> = +2°C	5.18	2.80
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.84 kW	5.29 kW
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C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = 12°C	5.94 kW	5.61 kW
COP T <sub>j</sub> = 12°C	5.18	4.06
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.99	0.99
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	5.70 kW	5.19 kW
COP T <sub>j</sub> = T <sub>biv</sub>	5.18	2.83
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.70 kW	5.19 kW
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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 <sub>he</sub>	1574 kWh	1857 kWh

## Model VITOCAL 222-G BWT 221.B06

Model name	VITOCAL 222-G BWT 221.B06
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 $\eta_{DHW}$	130 %
COP	3.14
Heating up time	2.10 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 $\eta_{DHW}$	130 %
COP	3.14
Heating up time	2.10 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 $\eta_{DHW}$	130 %
COP	3.14
Heating up time	2.10 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.B06 SC

Model name	VITOCAL 222-G BWT 221.B06 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

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