Login

Summary of	Vitocal 2xx-G M B08	Reg. No.	011-1W0289
Certificate Holder			
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 2xx-G M B08		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.95 kg		
Certification Date	11.07.2019		

Model: VITOCAL 200-G BWC-M 201.B08

Configure model	
Model name	VITOCAL 200-G BWC-M 201.B08
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.63 kW	6.81 kW
El input	1.67 kW	2.63 kW
COP	4.54	2.59

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

		Low temperature	Medium temperature
Pdesignh	8.50 kW		
η_s	214 %	151 %	
Prated	8.50 kW	7.94 kW	
SCOP	5.54	3.98	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.48 kW	6.98 kW	
COP Tj = -7°C	5.22	3.24	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	7.52 kW	7.23 kW	
COP Tj = +2°C	5.54	3.99	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	7.61 kW	7.37 kW	
COP Tj = +7°C	5.92	4.49	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	7.66 kW	7.48 kW
COP Tj = 12°C	6.29	5.05
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.48 kW	6.98 kW
COP Tj = Tbiv	5.22	3.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.17	3.06
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	1.04 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3167 kWh	4119 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	218 %	148 %
Prated	7.50 kW	6.92 kW
SCOP	5.64	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.50 kW	6.92 kW
COP Tj = +2°C	5.14	3.01
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.53 kW	7.12 kW
COP Tj = +7°C	5.44	3.54
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.62 kW	7.37 kW
COP Tj = 12°C	6.05	4.53
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.50 kW	6.92 kW

COP Tj = Tbiv	5.14	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.14	3.01
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1778 kWh	2371 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	195 %	147 %

Prated	12.34 kW	11.56 kW
SCOP	5.08	3.87
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.59 kW	7.18 kW
COP Tj = -7°C	5.64	3.91
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.64 kW	7.33 kW
COP Tj = +2°C	5.92	4.52
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.68 kW	7.48 kW
COP Tj = +7°C	6.17	5.05
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.69 kW	7.53 kW
COP Tj = 12°C	6.24	5.48
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.59 kW	7.18 kW
COP Tj = Tbiv	5.64	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.09	3.12
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	4.87 kW	4.66 kW
Annual energy consumption Qhe	6095 kWh	7356 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.53	7.05
COP Tj = -15°C (if TOL<-20°C)	5.43	3.56
Cdh Tj = -15 °C	0.99	0.99

Model: VITOCAL 222-G BWT-M 221.B08

Configure model	
Model name	VITOCAL 222-G BWT-M 221.B08
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.63 kW	6.81 kW
El input	1.67 kW	2.63 kW
COP	4.54	2.59

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

		Low temperature	Medium temperature
Pdesignh	8.50 kW		
η_s	214 %	151 %	
Prated	8.50 kW	7.94 kW	
SCOP	5.54	3.98	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.48 kW	6.98 kW	
COP Tj = -7°C	5.22	3.24	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	7.52 kW	7.23 kW	
COP Tj = +2°C	5.54	3.99	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	7.61 kW	7.37 kW	
COP Tj = +7°C	5.92	4.49	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	7.66 kW	7.48 kW
COP Tj = 12°C	6.29	5.05
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.48 kW	6.98 kW
COP Tj = Tbiv	5.22	3.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.17	3.06
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	1.04 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3167 kWh	4119 kWh

Warmer Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
η_s	218 %	148 %
Prated	7.50 kW	6.92 kW
SCOP	5.64	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.50 kW	6.92 kW
COP Tj = +2°C	5.14	3.01
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.53 kW	7.12 kW
COP Tj = +7°C	5.44	3.54
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.62 kW	7.37 kW
COP Tj = 12°C	6.05	4.53
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.50 kW	6.92 kW

COP Tj = Tbiv	5.14	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.14	3.01
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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1778 kWh	2371 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	195 %	147 %

Prated	12.34 kW	11.56 kW
SCOP	5.08	3.87
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.59 kW	7.18 kW
COP Tj = -7°C	5.64	3.91
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.64 kW	7.33 kW
COP Tj = +2°C	5.92	4.52
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.68 kW	7.48 kW
COP Tj = +7°C	6.17	5.05
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.69 kW	7.53 kW
COP Tj = 12°C	6.24	5.48
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	7.59 kW	7.18 kW
COP Tj = Tbiv	5.64	3.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.09	3.12
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	4.87 kW	4.66 kW
Annual energy consumption Qhe	6095 kWh	7356 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.53	7.05
COP Tj = -15°C (if TOL<-20°C)	5.43	3.56
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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-M 221.B08 SC

Configure model	
Model name	VITOCAL 222-G BWT-M 221.B08 SC
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Off-peak product	Yes

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.63 kW	6.81 kW
El input	1.67 kW	2.63 kW
COP	4.54	2.59

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

		Low temperature	Medium temperature
Pdesignh	8.50 kW		
η_s	214 %	151 %	
Prated	8.50 kW	7.94 kW	
SCOP	5.54	3.98	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.48 kW	6.98 kW	
COP Tj = -7°C	5.22	3.24	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	7.52 kW	7.23 kW	
COP Tj = +2°C	5.54	3.99	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	7.61 kW	7.37 kW	
COP Tj = +7°C	5.92	4.49	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	7.66 kW	7.48 kW
COP Tj = 12°C	6.29	5.05
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Pdh Tj = Tbiv	7.48 kW	6.98 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.17	3.06
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	1.04 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3167 kWh	4119 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	218 %	148 %
Prated	7.50 kW	6.92 kW
SCOP	5.64	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.50 kW	6.92 kW
COP Tj = +2°C	5.14	3.01
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.53 kW	7.12 kW
COP Tj = +7°C	5.44	3.54
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.62 kW	7.37 kW
COP Tj = 12°C	6.05	4.53
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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 Qhe	1778 kWh	2371 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	195 %	147 %

Prated	12.34 kW	11.56 kW
SCOP	5.08	3.87
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	7.59 kW	7.18 kW
COP Tj = -7°C	5.64	3.91
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	7.64 kW	7.33 kW
COP Tj = +2°C	5.92	4.52
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	7.68 kW	7.48 kW
COP Tj = +7°C	6.17	5.05
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	7.69 kW	7.53 kW
COP Tj = 12°C	6.24	5.48
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.47 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.09	3.12
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	4.87 kW	4.66 kW
Annual energy consumption Qhe	6095 kWh	7356 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.53	7.05
COP Tj = -15°C (if TOL<-20°C)	5.43	3.56
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.03
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