

Page 1 of 26

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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		
СОР	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		





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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	o w	0 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o w	o 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	o w	0 W
PSB	12 W	12 W
PCK	0 W	o 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)	

Low		
	v temperature Me	edium temperature
η _s 195 %	% 14	7 %





	· · · · · · · · · · · · · · · · · · ·	NK database on 10 Mai 202.
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
$COPTj = -7^{\circ}C$	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 = $+7^{\circ}$ C	7.68 kW	7.48 kW
$COPTj = +7^{\circ}C$	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



Page 8 of 26

WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o 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
СОР	4.54	2.59

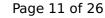
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	0 W	o 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



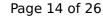


COP Tj = Tbiv	5.14	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.14	3.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: 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

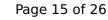
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	195 %	147 %





This information was generated by the HF RETMARK database on 18 Mai 2022			
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	
$COP Tj = -7^{\circ}C$	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 = $+7^{\circ}$ C	7.68 kW	7.48 kW	
$COPTj = +7^{\circ}C$	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
РТО	o w	o w
PSB	12 W	12 W
PCK	o 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

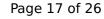


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.03	
Heating up time	1:47 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	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 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	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	



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
СОР	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 k	w	'
η_{s}	214 %	151 %	
Prated	8.50 k	7.94 kW	
SCOP	5.54	3.98	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.48 k	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 k	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 k	W 7.37 kW	
COP Tj = +7°C	5.92	4.49	
Cdh Tj = +7 °C	0.99	0.99	





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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	o w	0 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o w	o 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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Pdh Tj = Tbiv	7.50 kW	6.92 kW



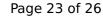


COD Ti — This	5.14	3.01
COP Tj = Tbiv	5.14	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	6.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.14	3.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 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)

Low		
	v temperature Me	edium temperature
η _s 195 %	% 14	7 %





This information was genera		
Prated	12.34 kW	11.56 kW
SCOP	5.08	3.87
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
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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 = $+7^{\circ}$ C	7.68 kW	7.48 kW
$COPTj = +7^{\circ}C$	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	o w	o w
РТО	o w	o w
PSB	12 W	12 W
PCK	o w	o 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

0.99

0.99

Domestic Hot Water (DHW)

Average Climate

Cdh Tj = -15 $^{\circ}$ C

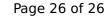


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.03	
Heating up time	1:47 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.1 °C	
Mixed water at 40°C	293 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	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 I	

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	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 I