

Summary of	Vitocal 2xx-G B08	Reg. No.	011-1W0286
Certificate Holder	-	-	
Name	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107
City	Allendorf/Eder	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Heat Pump Test Center WPZ		
Subtype title	Vitocal 2xx-G B08		
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

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	7.54 kW	6.95 kW		
El input	1.62 kW	2.51 kW		
СОР	4.64	2.74		
Indoor water flow rate	1.83 m³/h	1.51 m³/h		

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	7.57 kW		
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	0.99	0.99	
Pdh Tj = +2°C	7.63 kW	7.19 kW	
COP Tj = +2°C	5.23	3.77	
Cdh	0.99	0.99	
Pdh Tj = +7°C	7.69 kW	7.31 kW	
COP Tj = +7°C	5.56	4.23	
Cdh	0.99	0.99	





	as generate	a by the fit RETHAR	,
Pdh Tj = 12°C	7.76 kW	7.45 kW	
COP Tj = 12°C	5.91	4.80	
Cdh	0.99	0.99	
Pdh Tj = Tbiv	7.57 kW	6.99 kW	
COP Tj = Tbiv	4.93	3.16	
Pdh Tj = TOL	7.55 kW	6.92 kW	
COP Tj = TOL	4.88	2.99	
Cdh	0.99	1.00	
WTOL	65 °C	65 °C	
Poff	0 W	o w	
РТО	o w	o w	
PSB	12 W	12 W	
PCK	0 W	o w	
Supplementary Heater: Type of energy input	electric	electric	
Supplementary Heater: PSUP	1.05 kW	1.03 kW	
Backup Heater	0.00 kW		
Annual energy consumption Qhe	3398 kWh	4338 kWh	
			4

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** 205 % 143 % η_s Prated 7.61 kW 6.92 kW **SCOP** 5.32 3.76 Tbiv 2°C 2°C TOL 2°C 2°C Pdh Tj = +2°C 7.55 kW 6.92 kW $COPTj = +2^{\circ}C$ 4.85 2.99 Cdh 0.99 0.99 Pdh Tj = $+7^{\circ}$ C 7.09 kW 7.61 kW $COP Tj = +7^{\circ}C$ 5.15 3.45 Cdh 0.99 0.99 Pdh Tj = 12°C 7.73 kW 7.34 kW $COP Tj = 12^{\circ}C$ 5.69 4.34 Cdh 0.99 0.99 7.55 kW Pdh Tj = Tbiv6.92 kW COP Tj = Tbiv 4.85 2.99 Pdh Tj = TOL7.55 kW 6.92 kW COPTj = TOL4.85 2.99 Cdh 0.99 1.00





WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1897 kWh	2449 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 %	6	142 %
Prated	12.50	kW	11.63 kW
SCOP	5.08		3.80
Tbiv	-7 °C		-7 °C
TOL	-22 °C		-22 °C





This information was get	Terated by the HP KETM	ARK database on 17 Dec 2020
Pdh Tj = -7°C	7.65 kW	7.21 kW
COP Tj = -7°C	5.56	3.80
Cdh	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	7.76 kW	7.76 kW
$COPTj = +7^{\circ}C$	6.16	4.86
Cdh	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL	7.57 kW	6.96 kW
COP Tj = TOL	5.11	3.09
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	o w	o w
PSB	12 W	12 W
	1	



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PCK	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	4.93 kW	4.67 kW
Annual energy consumption Qhe	6143 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL $<$ -20°C)	5.11	3.46
Cdh	0.99	0.99



Model: VITOCAL 200-G BWC 201.B08 SC

General Data	
Power supply	n/a

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
СОР	4.64	2.74
Indoor water flow rate	1.83 m³/h	1.51 m³/h

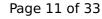
EN 14511-4		
Shutting off the heat transfer medium flow	nassod	
Shutting on the heat transfer medium now	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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	7.57 kW		
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	0.99	0.99	
Pdh Tj = +2°C	7.63 kW	7.19 kW	
COP Tj = +2°C	5.23	3.77	
Cdh	0.99	0.99	
Pdh Tj = +7°C	7.69 kW	7.31 kW	
COP Tj = +7°C	5.56	4.23	
Cdh	0.99	0.99	





Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.88	2.99
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	0 W	o w
РТО	0 W	o w
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 kWh

Warmer Climate

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



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EN 14825

	Low temperature	Medium temperature
η _s	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW
COP Tj = Tbiv	4.85	2.99
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.85	2.99
Cdh	0.99	1.00





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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	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1897 kWh	2449 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 %	142 %
Prated	12.50 kW	11.63 kW
SCOP	5.08	3.80
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C





This information was generated by the HP REYMARK database on 17 Dec 2020				
Pdh Tj = -7°C	7.65 kW	7.21 kW		
COP Tj = -7°C	5.56	3.80		
Cdh	0.99	0.99		
Pdh Tj = +2°C	7.70 kW	7.36 kW		
COP Tj = +2°C	5.90	4.33		
Cdh	0.99	0.99		
Pdh Tj = $+7^{\circ}$ C	7.76 kW	7.76 kW		
$COPTj = +7^{\circ}C$	6.16	4.86		
Cdh	0.99	0.99		
Pdh Tj = 12°C	7.77 kW	7.58 kW		
COP Tj = 12°C	6.24	5.25		
Cdh	0.99	0.99		
Pdh Tj = Tbiv	7.65 kW	7.21 kW		
COP Tj = Tbiv	5.56	3.80		
Pdh Tj = TOL	7.57 kW	6.96 kW		
COP Tj = TOL	5.11	3.09		
Cdh	0.99	1.00		
WTOL	65 °C	65 °C		
Poff	o w	o w		
РТО	o w	o w		
PSB	12 W	12 W		
	1			



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PCK	o w	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	4.93 kW	4.67 kW
Annual energy consumption Qhe	6095 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15°C (if TOL $<$ -20°C)	5.11	3.46
Cdh	0.99	0.99



Model: VITOCAL 222-G BWT 221.B08

General Data		
Power supply	3x400V 50Hz	
Off-peak product	Yes	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.54 kW	6.95 kW	
El input	1.62 kW	2.51 kW	
СОР	4.64	2.74	
Indoor water flow rate	1.83 m³/h	1.51 m³/h	

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	7.57 kW		
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	0.99	0.99	
Pdh Tj = +2°C	7.63 kW	7.19 kW	
COP Tj = +2°C	5.23	3.77	
Cdh	0.99	0.99	
Pdh Tj = +7°C	7.69 kW	7.31 kW	
COP Tj = +7°C	5.56	4.23	
Cdh	0.99	0.99	





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Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.88	2.99
Cdh	0.99	1.00
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	electric	electric
Supplementary Heater: PSUP	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 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}	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW





COP Tj = Tbiv	4.85	2.99
COP IJ = IDIV	4.03	2.99
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.85	2.99
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1897 kWh	2449 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 %	142 %





Prated	12.50 kW	11.63 kW
riateu	12.50 KW	11.03 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	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL	7.57 kW	6.96 kW
COP Tj = TOL	5.11	3.09
Cdh	0.99	1.00
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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	electric	electric
Supplementary Heater: PSUP	4.93 kW	4.67 kW
Annual energy consumption Qhe	6095 kWh	7633 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.62	7.10
COP Tj = -15 °C (if TOL< -20 °C)	5.11	3.46
Cdh	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

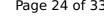


EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 I

Warmer Climate

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

Colder Climate





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



Model: VITOCAL 222-G BWT 221.B08 SC

General Da	nta
Power supply	3x400V 50Hz
Off-peak product	Yes

Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	7.54 kW	6.95 kW
El input	1.62 kW	2.51 kW
СОР	4.64	2.74
Indoor water flow rate	1.83 m³/h	1.51 m³/h

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 1482	5		
		Low temperature	Medium temperature	
Pdesignh	7.57 kW			
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	0.99	0.99		
Pdh Tj = +2°C	7.63 kW	7.19 kW		
COP Tj = +2°C	5.23	3.77		
Cdh	0.99	0.99		
Pdh Tj = +7°C	7.69 kW	7.31 kW		
COP Tj = +7°C	5.56	4.23		
Cdh	0.99	0.99		





	-	-
Pdh Tj = 12°C	7.76 kW	7.45 kW
COP Tj = 12°C	5.91	4.80
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.57 kW	6.99 kW
COP Tj = Tbiv	4.93	3.16
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.88	2.99
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.05 kW	1.03 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	3398 kWh	4338 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}	205 %	143 %
Prated	7.61 kW	6.92 kW
SCOP	5.32	3.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.55 kW	6.92 kW
COP Tj = +2°C	4.85	2.99
Cdh	0.99	0.99
Pdh Tj = +7°C	7.61 kW	7.09 kW
COP Tj = +7°C	5.15	3.45
Cdh	0.99	0.99
Pdh Tj = 12°C	7.73 kW	7.34 kW
COP Tj = 12°C	5.69	4.34
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.55 kW	6.92 kW





COP Tj = Tbiv	4.85	2.99
COP IJ = IDIV	4.00	2.99
Pdh Tj = TOL	7.55 kW	6.92 kW
COP Tj = TOL	4.85	2.99
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	o w	o w
РТО	o w	o w
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1897 kWh	2449 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 %	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	0.99	0.99
Pdh Tj = +2°C	7.70 kW	7.36 kW
COP Tj = +2°C	5.90	4.33
Cdh	0.99	0.99
Pdh Tj = +7°C	7.76 kW	7.76 kW
COP Tj = +7°C	6.16	4.86
Cdh	0.99	0.99
Pdh Tj = 12°C	7.77 kW	7.58 kW
COP Tj = 12°C	6.24	5.25
Cdh	0.99	0.99
Pdh Tj = Tbiv	7.65 kW	7.21 kW
COP Tj = Tbiv	5.56	3.80
Pdh Tj = TOL	7.57 kW	6.96 kW
COP Tj = TOL	5.11	3.09
Cdh	0.99	1.00





65 °C	65 °C
o w	
	0 W
0 W	0 W
12 W	12 W
o w	0 W
electric	electric
4.93 kW	4.67 kW
6095 kWh	7633 kWh
7.62	7.10
5.11	3.46
0.99	0.99
	0 W 12 W 0 W electric 4.93 kW 6095 kWh 7.62 5.11

Domestic Hot Water (DHW)

Average Climate

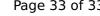


EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	3.14
Heating up time	1:47 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 I

Warmer Climate

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

Colder Climate





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
СОР	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