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Login

Summary of	Vitocal 2xx-G M B10	Reg. No.	011-1W0290	
Certificate Holder				
Name	Viessmann Wärmepumpen G	Viessmann Wärmepumpen GmbH		
Address	Viessmannstr. 1	Zip	35107	
City	Allendorf/Eder	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Vitocal 2xx-G M B10	Vitocal 2xx-G M B10		
Heat Pump Type	Brine/Water			
Refrigerant	R410A	R410A		
Mass of Refrigerant	2.4 kg	2.4 kg		
Certification Date	11.07.2019			



Model: VITOCAL 200-G BWC-M 201.B10

Configure model		
Model name	VITOCAL 200-G BWC-M 201.B10	
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	10.14 kW	9.21 kW	
El input	2.31 kW	3.69 kW	
СОР	4.39	2.50	

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

Warmer Climate





EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	197 %	142 %	
Prated	10.27 kW	9.45 kW	
SCOP	5.12	3.75	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	10.22 kW	9.45 kW	
COP Tj = +2°C	4.74	3.02	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	10.26 kW	9.65 kW	
$COPTj = +7^{\circ}C$	4.99	3.45	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	10.39 kW	10.00 kW	
COP Tj = 12°C	5.43	4.27	
Cdh Tj = +12 °C	0.99	0.99	
Pdh Tj = Tbiv	10.22 kW	9.45 kW	

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COP Tj = Tbiv	4.74	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	9.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.74	3.02
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	2682 kWh	3369 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	141 %





This information was genera		
Prated	16.96 kW	15.87 kW
SCOP	4.97	3.72
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	10.37 kW	9.80 kW
$COP Tj = -7^{\circ}C$	5.54	3.77
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	10.37 kW	10.03 kW
COP Tj = +2°C	5.82	4.28
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.49 kW	10.16 kW
$COPTj = +7^{\circ}C$	6.09	4.71
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.46 kW	10.26 kW
COP Tj = 12°C	6.09	5.07
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.37 kW	9.80 kW
COP Tj = Tbiv	5.54	3.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.25 kW	9.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.08	3.11
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	o w
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.71 kW	6.93 kW
Annual energy consumption Qhe	8407 kWh	10514 kWh
Pdh Tj = -15°C (if TOL<-20°C)	10.32	9.68
COP Tj = -15°C (if TOL $<$ -20°C)	5.43	3.47
Cdh Tj = -15 °C	0.99	0.99

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.70 kW		,
η_{s}	194 %	143 %	





This information was	generatea	by the The RETPORT
Prated	11.70 kW	10.83 kW
SCOP	5.06	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	10.29 kW	9.53 kW
COP Tj = -7°C	4.80	3.18
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	10.35 kW	9.79 kW
COP Tj = +2°C	5.08	3.75
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.38 kW	9.96 kW
COP Tj = +7°C	5.34	4.19
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.46 kW	10.12 kW
COP Tj = 12°C	5.63	4.65
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.29 kW	9.53 kW
COP Tj = Tbiv	4.80	3.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.25 kW	9.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.01



FOL 65 °C 65 °C ff 0 W 0 W O 0 W 0 W B 12 W 12 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW			
ff 0 W 0 W O 0 W 0 W B 12 W 12 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.99	0.99
O 0 W 0 W B 12 W 12 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	WTOL	65 °C	65 °C
B 12 W 12 W K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	Poff	o w	o w
K 0 W 0 W pplementary Heater: Type of energy input Electricity Electricity pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	PTO	o w	o w
pplementary Heater: Type of energy input Electricity Electricity 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	PSB	12 W	12 W
pplementary Heater: PSUP 1.45 kW 1.40 kW ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	PCK	o w	o w
ckup Heater 0.00 kW nual energy consumption Qhe 4781 5948 kWh	Supplementary Heater: Type of energy input	Electricity	Electricity
nual energy consumption Qhe 4781 5948 kWh	Supplementary Heater: PSUP	1.45 kW	1.40 kW
	Backup Heater	0.00 kW	
	Annual energy consumption Qhe		5948 kWh



Model: VITOCAL 222-G BWT-M 221.B10

Configure model		
Model name	VITOCAL 222-G BWT-M 221.B10	
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	10.14 kW	9.21 kW		
El input	2.31 kW	3.69 kW		
СОР	4.39	2.50		

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

Warmer Climate

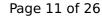




EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	46 dB(A)	46 dB(A)	

	EN 14825	
	Low temperature	Medium temperature
η_{s}	197 %	142 %
Prated	10.27 kW	9.45 kW
SCOP	5.12	3.75
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.22 kW	9.45 kW
COP Tj = +2°C	4.74	3.02
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	10.26 kW	9.65 kW
COP Tj = +7°C	4.99	3.45
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.39 kW	10.00 kW
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Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.22 kW	9.45 kW

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		-
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	9.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.74	3.02
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	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2682 kWh	3369 kWh
Supplementary Heater: Type of energy input Supplementary Heater: PSUP	Electricity 0.00 kW	Electricity 0.00 kW

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	191 %	141 %





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$COP Tj = -7^{\circ}C$	5.54	3.77
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = $+2$ °C	10.37 kW	10.03 kW
COP Tj = +2°C	5.82	4.28
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = $+7^{\circ}$ C	10.49 kW	10.16 kW
$COPTj = +7^{\circ}C$	6.09	4.71
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	10.46 kW	10.26 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.25 kW	9.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.08	3.11
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
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.71 kW	6.93 kW
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COP Tj = -15°C (if TOL $<$ -20°C)	5.43	3.47
Cdh Tj = -15 °C	0.99	0.99

Average Climate

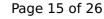
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.70 kW		,
η_{s}	194 %	143 %	





T	y the HE KLIMAKK
11.70 kW	10.83 kW
5.06	3.76
-7 °C	-7 °C
-10 °C	-10 °C
10.29 kW	9.53 kW
4.80	3.18
0.99	0.99
10.35 kW	9.79 kW
5.08	3.75
0.99	0.99
10.38 kW	9.96 kW
5.34	4.19
0.99	0.99
10.46 kW	10.12 kW
5.63	4.65
0.99	0.99
10.29 kW	9.53 kW
4.80	3.18
10.25 kW	9.43 kW
4.73	3.01
	11.70 kW 5.06 -7 °C -10 °C 10.29 kW 4.80 0.99 10.35 kW 5.08 0.99 10.38 kW 5.34 0.99 10.46 kW 5.63 0.99 10.29 kW 4.80 10.25 kW





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	1.45 kW	1.40 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4781 kWh	5948 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.01	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.01	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.01	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	



Model: VITOCAL 222-G BWT-M 221.B10 SC

Configure model		
Model name	VITOCAL 222-G BWT-M 221.B10 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	10.14 kW	9.21 kW	
El input	2.31 kW	3.69 kW	
СОР	4.39	2.50	

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

Warmer Climate



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	197 %	142 %	
Prated	10.27 kW	9.45 kW	
SCOP	5.12	3.75	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	10.22 kW	9.45 kW	
COP Tj = +2°C	4.74	3.02	
Cdh Tj = +2 °C	0.99	0.99	
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COP Tj = +7°C	4.99	3.45	
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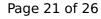


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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	o w	0 W
РТО	o w	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2682 kWh	3369 kWh
Supplementary Heater: Type of energy input Supplementary Heater: PSUP	Electricity 0.00 kW	Electricity 0.00 kW

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		

EN 14825			
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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	6.71 kW	6.93 kW
Annual energy consumption Qhe	8407 kWh	10514 kWh
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COP Tj = -15°C (if TOL<-20°C)	5.43	3.47
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Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		

EN 14825			
		Low temperature	Medium temperature
Pdesignh	11.70 kW		,
η_{s}	194 %	143 %	





T	y the HE KLIMAKK
11.70 kW	10.83 kW
5.06	3.76
-7 °C	-7 °C
-10 °C	-10 °C
10.29 kW	9.53 kW
4.80	3.18
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4.73	3.01
	11.70 kW 5.06 -7 °C -10 °C 10.29 kW 4.80 0.99 10.35 kW 5.08 0.99 10.38 kW 5.34 0.99 10.46 kW 5.63 0.99 10.29 kW 4.80 10.25 kW





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	1.45 kW	1.40 kW	

0.00 kW

5948 kWh

4781

kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Warmer Climate

Backup Heater



EN 16147				
Declared load profile	XL			
Efficiency ηDHW	130 %			
СОР	3.01			
Heating up time	1:14 h:min			
Standby power input	63.0 W			
Reference hot water temperature	54.2 °C			
Mixed water at 40°C	302 I			

Colder Climate

EN 16147			
Declared load profile	XL		
Efficiency ηDHW	130 %		
СОР	3.01		
Heating up time	1:14 h:min		
Standby power input	63.0 W		
Reference hot water temperature	54.2 °C		
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Average Climate



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