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Login

Summary of	Vitocal 2xx-G M B10	Reg. No.	011-1W0290	
Certificate Holder	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 B10			
Heat Pump Type	Brine/Water			
Refrigerant	R410A			
Mass of Refrigerant	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	

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 %	
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	





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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	
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	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	
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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	
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	





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	o w	o w
PTO	0 W	o 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
ηs	191 %	141 %
IS	191 70	1-4





	<u>, , , , , , , , , , , , , , , , , , , </u>	IN database on 10 Mai 202.
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
$COPTj = -7^{\circ}C$	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



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This information was generated by the HP KEYMARK database on 18 Mar 2022

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



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

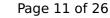
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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 %	
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	
$COP Tj = +7^{\circ}C$	5.34	4.19	
Cdh Tj = +7 °C	0.99	0.99	





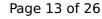
Pdh Tj = 12°C	10.46 kW	10.12 kW
COP Tj = 12°C	5.63	4.65
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	10.29 kW	9.53 kW
COP Tj = Tbiv	4.80	3.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.25 kW	9.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.73	3.01
Cdh Tj = TOL or Pdh Tj = Tdesignh 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	1.45 kW	1.40 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4781 kWh	5948 kWh

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
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



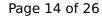


COP Tj = Tbiv	4.74	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	9.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.74	3.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
РТО	0 W	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2682 kWh	3369 kWh

Colder Climate

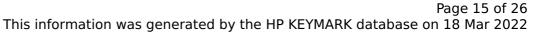
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)

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





This information was genera	tea by the Hi KETHA	tit database on 10 mai 2022
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
COP Tj = +7°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	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	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

Domestic Hot Water (DHW)

Average Climate

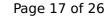


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	130 %	
СОР	3.01	
Heating up time	1:14 h:min	
Standby power input	63.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	302 I	

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	



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	

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 %	
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	
$COP Tj = +7^{\circ}C$	5.34	4.19	
Cdh Tj = +7 °C	0.99	0.99	





Pdh Tj = 12°C	10.46 kW	10.12 kW
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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
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	1.45 kW	1.40 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	4781 kWh	5948 kWh

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
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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



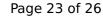


COP Tj = Tbiv	4.74	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	9.45 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	0 W	0 W
PTO	0 W	0 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2682 kWh	3369 kWh

Colder Climate

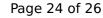
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	

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





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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		
$COPTj = +2^{\circ}C$	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		
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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		





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This information was	generated by t	the HP KEYMARK	database on	18 Mar 2	022

65 °C	65 °C
0 W	0 W
0 W	0 W
12 W	12 W
0 W	0 W
Electricity	Electricity
6.71 kW	6.93 kW
8407 kWh	10514 kWh
10.32	9.68
5.43	3.47
0.99	0.99
	0 W 0 W 12 W 0 W Electricity 6.71 kW 8407 kWh 10.32 5.43

Domestic Hot Water (DHW)

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	

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	