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Login

Summary of	Vitocal 2xx-G M B06	Reg. No.	011-1W0288
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 B06		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.4 kg		
Certification Date	11.07.2019		

Model: VITOCAL 200-G BWC-M 201.B06

Configure model	
Model name	VITOCAL 200-G BWC-M 201.B06
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	5.79 kW	5.19 kW
El input	1.34 kW	2.07 kW
COP	4.31	2.51

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	40 dB(A)	40 dB(A)

EN 14825

		Low temperature	Medium temperature
Pdesignh	6.37 kW		
η_s	201 %	133 %	
Prated	6.37 kW	5.75 kW	
SCOP	5.23	3.52	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.61 kW	5.06 kW	
COP Tj = -7°C	4.92	2.95	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.66 kW	5.12 kW	
COP Tj = +2°C	5.26	3.50	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.69 kW	5.27 kW	
COP Tj = +7°C	5.54	3.91	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	5.72 kW	5.37 kW
COP Tj = 12°C	5.86	4.41
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.61 kW	5.06 kW
COP Tj = Tbiv	4.92	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.85
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	0.77 kW	0.59 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2516 kWh	3378 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	204 %	130 %
Prated	5.59 kW	5.22 kW
SCOP	5.16	3.46
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.59 kW	5.22 kW
COP Tj = +2°C	4.69	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.60 kW	5.15 kW
COP Tj = +7°C	4.93	3.17
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.68 kW	5.48 kW
COP Tj = 12°C	5.43	3.96
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.59 kW	5.22 kW

COP Tj = Tbiv	4.69	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.59 kW	5.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	2.80
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	1447 kWh	2014 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	132 %

Prated	9.15 kW	8.41 kW
SCOP	4.79	3.51
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.60 kW	5.17 kW
COP Tj = -7°C	5.32	3.46
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.65 kW	5.39 kW
COP Tj = +2°C	5.63	4.00
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.67 kW	5.46 kW
COP Tj = +7°C	5.85	4.43
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.71 kW	5.49 kW
COP Tj = 12°C	5.95	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.60 kW	5.17 kW
COP Tj = Tbiv	5.32	3.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.91
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	3.62 kW	3.18 kW
Annual energy consumption Qhe	4713 kWh	5907 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.82	5.23
COP Tj = -15°C (if TOL<-20°C)	4.85	2.91
Cdh Tj = -15 °C	0.99	0.99

Model: VITOCAL 222-G BWT-M 221.B06

Configure model	
Model name	VITOCAL 222-G BWT-M 221.B06
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	5.79 kW	5.19 kW
El input	1.34 kW	2.07 kW
COP	4.31	2.51

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	40 dB(A)	40 dB(A)

EN 14825

		Low temperature	Medium temperature
Pdesignh	6.37 kW		
η_s	201 %	133 %	
Prated	6.37 kW	5.75 kW	
SCOP	5.23	3.52	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.61 kW	5.06 kW	
COP Tj = -7°C	4.92	2.95	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.66 kW	5.12 kW	
COP Tj = +2°C	5.26	3.50	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.69 kW	5.27 kW	
COP Tj = +7°C	5.54	3.91	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	5.72 kW	5.37 kW
COP Tj = 12°C	5.86	4.41
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.61 kW	5.06 kW
COP Tj = Tbiv	4.92	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.85
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	0.77 kW	0.59 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2516 kWh	3378 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	204 %	130 %
Prated	5.59 kW	5.22 kW
SCOP	5.16	3.46
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.59 kW	5.22 kW
COP Tj = +2°C	4.69	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.60 kW	5.15 kW
COP Tj = +7°C	4.93	3.17
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.68 kW	5.48 kW
COP Tj = 12°C	5.43	3.96
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.59 kW	5.22 kW

COP Tj = Tbiv	4.69	2.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.59 kW	5.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	2.80
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	1447 kWh	2014 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	132 %

Prated	9.15 kW	8.41 kW
SCOP	4.79	3.51
Tbiv	-7 °C	-7 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.60 kW	5.17 kW
COP Tj = -7°C	5.32	3.46
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.65 kW	5.39 kW
COP Tj = +2°C	5.63	4.00
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.67 kW	5.46 kW
COP Tj = +7°C	5.85	4.43
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.71 kW	5.49 kW
COP Tj = 12°C	5.95	4.80
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.60 kW	5.17 kW
COP Tj = Tbiv	5.32	3.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	5.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.91
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	3.62 kW	3.18 kW
Annual energy consumption Qhe	4713 kWh	5907 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.82	5.23
COP Tj = -15°C (if TOL<-20°C)	4.85	2.91
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.05
Heating up time	2:10 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	3.05
Heating up time	2:10 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	3.05
Heating up time	2:10 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.B06 SC

Configure model	
Model name	VITOCAL 222-G BWT-M 221.B06 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	5.79 kW	5.19 kW
El input	1.34 kW	2.07 kW
COP	4.31	2.51

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	40 dB(A)	40 dB(A)

EN 14825

		Low temperature	Medium temperature
Pdesignh	6.37 kW		
η_s	201 %	133 %	
Prated	6.37 kW	5.75 kW	
SCOP	5.23	3.52	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.61 kW	5.06 kW	
COP Tj = -7°C	4.92	2.95	
Cdh Tj = -7 °C	0.99	0.99	
Pdh Tj = +2°C	5.66 kW	5.12 kW	
COP Tj = +2°C	5.26	3.50	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.69 kW	5.27 kW	
COP Tj = +7°C	5.54	3.91	
Cdh Tj = +7 °C	0.99	0.99	

Pdh Tj = 12°C	5.72 kW	5.37 kW
COP Tj = 12°C	5.86	4.41
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	5.61 kW	5.06 kW
COP Tj = Tbiv	4.92	2.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.85
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	0.77 kW	0.59 kW
Backup Heater	0.00 kW	
Annual energy consumption Qhe	2516 kWh	3378 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	204 %	130 %
Prated	5.59 kW	5.22 kW
SCOP	5.16	3.46
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.59 kW	5.22 kW
COP Tj = +2°C	4.69	2.80
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.60 kW	5.15 kW
COP Tj = +7°C	4.93	3.17
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	5.68 kW	5.48 kW
COP Tj = 12°C	5.43	3.96
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Pdh Tj = Tbiv	5.59 kW	5.22 kW

COP Tj = Tbiv	4.69	2.80
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	2.80
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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	1447 kWh	2014 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	132 %

Prated	9.15 kW	8.41 kW
SCOP	4.79	3.51
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	5.60 kW	5.17 kW
COP Tj = -7°C	5.32	3.46
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.65 kW	5.39 kW
COP Tj = +2°C	5.63	4.00
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	5.67 kW	5.46 kW
COP Tj = +7°C	5.85	4.43
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Pdh Tj = 12°C	5.71 kW	5.49 kW
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Pdh Tj = Tbiv	5.60 kW	5.17 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.85	2.91
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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	3.62 kW	3.18 kW
Annual energy consumption Qhe	4713 kWh	5907 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.82	5.23
COP Tj = -15°C (if TOL<-20°C)	4.85	2.91
Cdh Tj = -15 °C	0.99	0.99

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	130 %
COP	3.05
Heating up time	2:10 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	3.05
Heating up time	2:10 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	3.05
Heating up time	2:10 h:min
Standby power input	63.0 W
Reference hot water temperature	54.1 °C
Mixed water at 40°C	293 l