

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | | |
|----------------------------|---|----------|------------|
| Summary of | Vitocal 2xx-G M B10 | Reg. No. | 011-1W0290 |
| 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 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

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 |
| COP | 4.39 | 2.50 |
| Indoor water flow rate | 1.75 m ³ /h | 1.01 m ³ /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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 46 dB(A) | 46 dB(A) |

EN 14825

| | | Low temperature | Medium temperature |
|---------------------------------------|----------|-----------------|--------------------|
| P _{designh} | 11.70 kW | | |
| η_s | 194 % | 143 % | |
| P _{rated} | 11.70 kW | 10.83 kW | |
| SCOP | 5.06 | 3.76 | |
| T _{biv} | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| P _{dh} T _j = -7°C | 10.29 kW | 9.53 kW | |
| COP T _j = -7°C | 4.80 | 3.18 | |
| C _{dh} | 0.99 | 0.99 | |
| P _{dh} T _j = +2°C | 10.35 kW | 9.79 kW | |
| COP T _j = +2°C | 5.08 | 3.75 | |
| C _{dh} | 0.99 | 0.99 | |
| P _{dh} T _j = +7°C | 10.38 kW | 9.96 kW | |
| COP T _j = +7°C | 5.34 | 4.19 | |
| C _{dh} | 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 | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.29 kW | 9.53 kW |
| COP Tj = Tbiv | 4.80 | 3.18 |
| Pdh Tj = TOL | 10.25 kW | 9.43 kW |
| COP Tj = TOL | 4.73 | 3.01 |
| Cdh | 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 | electric | electric |
| 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) |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| 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 | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.26 kW | 9.65 kW |
| COP Tj = +7°C | 4.99 | 3.45 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 10.39 kW | 10.00 kW |
| COP Tj = 12°C | 5.43 | 4.27 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.22 kW | 9.45 kW |
| COP Tj = Tbiv | 4.74 | 3.02 |
| Pdh Tj = TOL | 10.22 kW | 9.45 kW |
| COP Tj = TOL | 4.74 | 3.02 |
| Cdh | 0.99 | 0.99 |

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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 | electric | electric |
| 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 % |
| Prated | 16.96 kW | 15.87 kW |
| SCOP | 4.97 | 3.72 |
| Tbiv | -7 °C | -7 °C |
| TOL | -22 °C | -22 °C |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|---------------|----------|----------|
| Pdh Tj = -7°C | 10.37 kW | 9.80 kW |
| COP Tj = -7°C | 5.54 | 3.77 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 10.37 kW | 10.03 kW |
| COP Tj = +2°C | 5.82 | 4.28 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.49 kW | 10.16 kW |
| COP Tj = +7°C | 6.09 | 4.71 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 10.46 kW | 10.26 kW |
| COP Tj = 12°C | 6.09 | 5.07 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.37 kW | 9.80 kW |
| COP Tj = Tbiv | 5.54 | 3.77 |
| Pdh Tj = TOL | 10.25 kW | 9.48 kW |
| COP Tj = TOL | 5.08 | 3.11 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 0 W | 0 W |
| PSB | 12 W | 12 W |

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| | | |
|---|----------|-----------|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 6.71 kW | 6.93 kW |
| Annual energy consumption Q _{he} | 8407 kWh | 10514 kWh |
| P _{dh} T _j = -15°C (if TOL<-20°C) | 10.32 | 9.68 |
| COP T _j = -15°C (if TOL<-20°C) | 5.43 | 3.47 |
| C _{dh} | 0.99 | 0.99 |

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

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 |
| COP | 4.39 | 2.50 |
| Indoor water flow rate | 1.75 m ³ /h | 1.01 m ³ /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 | 46 dB(A) | 46 dB(A) |

EN 14825

| | | Low temperature | Medium temperature |
|---------------------------------------|----------|-----------------|--------------------|
| P _{designh} | 11.70 kW | | |
| η_s | 194 % | 143 % | |
| P _{rated} | 11.70 kW | 10.83 kW | |
| SCOP | 5.06 | 3.76 | |
| T _{biv} | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| P _{dh} T _j = -7°C | 10.29 kW | 9.53 kW | |
| COP T _j = -7°C | 4.80 | 3.18 | |
| C _{dh} | 0.99 | 0.99 | |
| P _{dh} T _j = +2°C | 10.35 kW | 9.79 kW | |
| COP T _j = +2°C | 5.08 | 3.75 | |
| C _{dh} | 0.99 | 0.99 | |
| P _{dh} T _j = +7°C | 10.38 kW | 9.96 kW | |
| COP T _j = +7°C | 5.34 | 4.19 | |
| C _{dh} | 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 | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.29 kW | 9.53 kW |
| COP Tj = Tbiv | 4.80 | 3.18 |
| Pdh Tj = TOL | 10.25 kW | 9.43 kW |
| COP Tj = TOL | 4.73 | 3.01 |
| Cdh | 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 | electric | electric |
| Supplementary Heater: PSUP | 1.45 kW | 1.40 kW |
| Backup Heater | 0.00 kW | |
| Annual energy consumption Qhe | 4781 kWh | 5948 kWh |

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.26 kW | 9.65 kW |
| COP Tj = +7°C | 4.99 | 3.45 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 10.39 kW | 10.00 kW |
| COP Tj = 12°C | 5.43 | 4.27 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.22 kW | 9.45 kW |

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| | | |
|--|----------|----------|
| COP $T_j = T_{biv}$ | 4.74 | 3.02 |
| P _{dh} $T_j = TOL$ | 10.22 kW | 9.45 kW |
| COP $T_j = TOL$ | 4.74 | 3.02 |
| C _{dh} | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 0 W | 0 W |
| P _{TO} | 0 W | 0 W |
| P _{SB} | 12 W | 12 W |
| P _{CK} | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 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°C | 5.54 | 3.77 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +2°C | 10.37 kW | 10.03 kW |
| COP Tj = +2°C | 5.82 | 4.28 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.49 kW | 10.16 kW |
| COP Tj = +7°C | 6.09 | 4.71 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = 12°C | 10.46 kW | 10.26 kW |
| COP Tj = 12°C | 6.09 | 5.07 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.37 kW | 9.80 kW |
| COP Tj = Tbiv | 5.54 | 3.77 |
| Pdh Tj = TOL | 10.25 kW | 9.48 kW |
| COP Tj = TOL | 5.08 | 3.11 |
| Cdh | 0.99 | 0.99 |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|----------|-----------|
| 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 | electric | electric |
| 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 | 0.99 | 0.99 |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |

Colder Climate

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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |

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

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 |
| COP | 4.39 | 2.50 |
| Indoor water flow rate | 1.75 m ³ /h | 1.01 m ³ /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

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| | Low temperature | Medium temperature |
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| Sound power level indoor | 46 dB(A) | 46 dB(A) |

EN 14825

| | | Low temperature | Medium temperature |
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| P _{designh} | 11.70 kW | | |
| η_s | 194 % | 143 % | |
| P _{rated} | 11.70 kW | 10.83 kW | |
| SCOP | 5.06 | 3.76 | |
| T _{biv} | -7 °C | -7 °C | |
| TOL | -10 °C | -10 °C | |
| P _{dh} T _j = -7°C | 10.29 kW | 9.53 kW | |
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| COP T _j = +2°C | 5.08 | 3.75 | |
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| COP Tj = Tbiv | 4.80 | 3.18 |
| Pdh Tj = TOL | 10.25 kW | 9.43 kW |
| COP Tj = TOL | 4.73 | 3.01 |
| Cdh | 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 | electric | electric |
| Supplementary Heater: PSUP | 1.45 kW | 1.40 kW |
| Backup Heater | 0.00 kW | |
| Annual energy consumption Qhe | 4781 kWh | 5948 kWh |

Warmer Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

| | Low temperature | Medium temperature |
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| Sound power level indoor | 46 dB(A) | 46 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
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| 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 | 0.99 | 0.99 |
| Pdh Tj = +7°C | 10.26 kW | 9.65 kW |
| COP Tj = +7°C | 4.99 | 3.45 |
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| Pdh Tj = 12°C | 10.39 kW | 10.00 kW |
| COP Tj = 12°C | 5.43 | 4.27 |
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| Pdh Tj = Tbiv | 10.22 kW | 9.45 kW |

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| P _{dh} $T_j = TOL$ | 10.22 kW | 9.45 kW |
| COP $T_j = TOL$ | 4.74 | 3.02 |
| C _{dh} | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 0 W | 0 W |
| P _{TO} | 0 W | 0 W |
| P _{SB} | 12 W | 12 W |
| P _{CK} | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: P _{SUP} | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 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 | | |
|-----------------|------------------------|---------------------------|
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| Pdh Tj = +7°C | 10.49 kW | 10.16 kW |
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| COP Tj = 12°C | 6.09 | 5.07 |
| Cdh | 0.99 | 0.99 |
| Pdh Tj = Tbiv | 10.37 kW | 9.80 kW |
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| COP Tj = TOL | 5.08 | 3.11 |
| Cdh | 0.99 | 0.99 |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|----------|-----------|
| 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 | electric | electric |
| 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 | 0.99 | 0.99 |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |

Warmer Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 130 % |
| COP | 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 l |