

## Datasheet

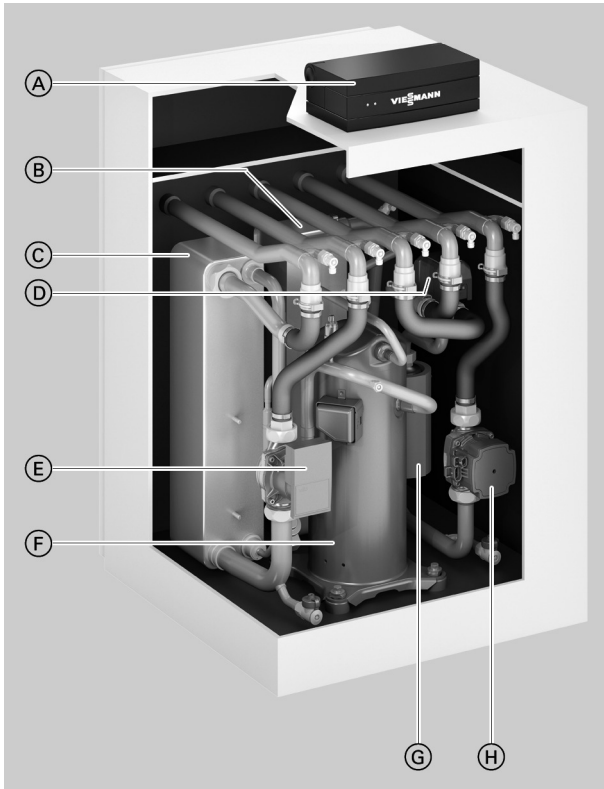
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### **VITOCAL 200-G** Type BWC(-M) 201.B

Single-stage brine/water or water/water heat pump,  
230 V~/400 V~

## Benefits



- Ⓐ Vitotronic 200 weather-compensated, digital heat pump control unit
- Ⓑ Condenser
- Ⓒ Evaporator
- Ⓓ 3-way diverter valve
- Ⓔ Primary pump (brine), high efficiency circulation pump
- Ⓕ Compressor
- Ⓖ Instantaneous heating water heater
- Ⓗ Secondary pump (heating water), high efficiency circulation pump

- Low running costs thanks to high SCOP (seasonal coefficient of performance) to EN 14825: Up to 5.3 for average climatic conditions and low temperature application (W35)
- Especially quiet thanks to new sound insulation concept: Up to 49 dB(A) at B0/W55
- Mono mode operation for central heating and DHW heating
- Low running costs with high efficiency due to RCD (refrigerant cycle diagnostic) system with electronic expansion valve (EEV)

- Integral instantaneous heating water heater, e.g. for screed drying
- Easy handling as the heat pump module can be quickly removed thanks to push-fit connections
- Optimised utilisation of power generated on-site by photovoltaic systems
- Web-enabled through Vitoconnect (accessories) for operation and service via Viessmann apps

## Delivered condition

- Brine/water heat pump in a compact casing
- Integral 3-way diverter valve "central heating/DHW heating"
- Integral high efficiency circulation pump for primary circuit (brine)
- Integral high efficiency circulation pump for secondary circuit (heating water)
- Integral instantaneous heating water heater
- Safety assembly for the heating circuit

- Vitotronic 200 weather-compensated heat pump control unit with outside temperature sensor
- Electronic starting current limiter and integral phase monitor
- Connection lines for flow and return of primary circuit (brine) flow, heating circuit and DHW flow (secondary circuit) for connection at the top

## Specification

### Brine/water heat pump specification

#### 400 V appliances

| Type BWC                                                            |      | 201.B06                                            | 201.B08            | 201.B10            | 201.B13            | 201.B17            |
|---------------------------------------------------------------------|------|----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Heating performance data to EN 14511</b><br>(B0/W35, 5 K spread) |      |                                                    |                    |                    |                    |                    |
| Rated heating output                                                | kW   | 5.76                                               | 7.54               | 10.36              | 12.97              | 17.35              |
| Cooling capacity                                                    | kW   | 4.44                                               | 6.06               | 8.32               | 10.52              | 13.79              |
| Power consumption                                                   | kW   | 1.25                                               | 1.62               | 2.16               | 2.63               | 3.84               |
| Coefficient of performance ε (COP)                                  |      | 4.60                                               | 4.64               | 4.81               | 4.93               | 4.51               |
| <b>Brine (primary circuit)</b>                                      |      |                                                    |                    |                    |                    |                    |
| Capacity                                                            | l    | 3.3                                                | 3.3                | 3.9                | 4.5                | 5.9                |
| Minimum flow rate                                                   | l/h  | 860                                                | 1160               | 1470               | 1900               | 2500               |
| Nominal flow rate                                                   | l/h  | 1100                                               | 1300               | 1720               | —                  | —                  |
| Residual head                                                       |      |                                                    |                    |                    |                    |                    |
| – At minimum flow rate                                              | mbar | 635                                                | 570                | 650                | 869                | 745                |
|                                                                     | kPa  | 63.5                                               | 57.0               | 65.0               | 86.9               | 74.5               |
| – At nominal flow rate                                              | mbar | 612                                                | 545                | 580                | —                  | —                  |
|                                                                     | kPa  | 61.2                                               | 54.5               | 58.0               | —                  | —                  |
| Max. flow temperature (brine inlet)                                 | °C   | 25                                                 | 25                 | 25                 | 25                 | 25                 |
| Min. flow temperature (brine inlet)                                 | °C   | –10                                                | –10                | –10                | –10                | –10                |
| <b>Heating water (secondary circuit)</b>                            |      |                                                    |                    |                    |                    |                    |
| Capacity                                                            | l    | 3.3                                                | 3.5                | 3.8                | 4.6                | 5.7                |
| Minimum flow rate                                                   | l/h  | 600                                                | 710                | 920                | 1115               | 1500               |
| Nominal flow rate                                                   | l/h  | 990                                                | 1250               | 1710               | —                  | —                  |
| Residual head                                                       |      |                                                    |                    |                    |                    |                    |
| – At minimum flow rate                                              | mbar | 610                                                | 690                | 670                | 910                | 838                |
|                                                                     | kPa  | 61.0                                               | 69.0               | 67.0               | 91.0               | 83.8               |
| – At nominal flow rate                                              | mbar | 576                                                | 620                | 430                | —                  | —                  |
|                                                                     | kPa  | 57.6                                               | 62.0               | 43.0               | —                  | —                  |
| Max. flow temperature                                               | °C   | 65                                                 | 65                 | 65                 | 65                 | 65                 |
| <b>Instantaneous heating water heater</b>                           |      |                                                    |                    |                    |                    |                    |
| Heating output                                                      | kW   | 9.0                                                | 9.0                | 9.0                | 9.0                | 9.0                |
| Rated voltage                                                       |      | 3/N/PE 400 V/50 Hz                                 |                    |                    |                    |                    |
| Fuse protection                                                     |      | 3 x B16A 1-pole                                    |                    |                    |                    |                    |
| <b>Heat pump electrical values</b>                                  |      |                                                    |                    |                    |                    |                    |
| Rated voltage, compressor                                           |      | 3/N/PE 400 V/50 Hz                                 |                    |                    |                    |                    |
| Rated current, compressor                                           | A    | 4.8                                                | 6.2                | 7.4                | 9.7                | 13                 |
| Cos φ                                                               |      | 0.9                                                | 0.9                | 0.9                | 0.9                | 0.9                |
| Starting current, compressor with starting current limiter          | A    | 11                                                 | 14                 | 20                 | 22                 | 25                 |
| Starting current, compressor with stalled armature                  | A    | 28                                                 | 43                 | 51.5               | 62                 | 75                 |
| Compressor fuse rating                                              | A    | 1 x B16A<br>3-pole                                 | 1 x B16A<br>3-pole | 1 x B16A<br>3-pole | 1 x B16A<br>3-pole | 1 x C20A<br>3-pole |
| Protection class                                                    |      | I                                                  | I                  | I                  | I                  | I                  |
| <b>Electrical values, heat pump control unit</b>                    |      |                                                    |                    |                    |                    |                    |
| Rated voltage                                                       |      | 1/N/PE 230 V/50 Hz                                 |                    |                    |                    |                    |
| Fuse protection                                                     |      | B16A                                               | B16A               | B16A               | B16A               | B16A               |
| Fuses                                                               |      | 2.0 A (slow, H) / 250 V<br>6.3 A (slow, H) / 250 V |                    |                    |                    |                    |
| IP rating                                                           |      | IP 20                                              | IP 20              | IP 20              | IP 20              | IP 20              |
| <b>Power consumption</b>                                            |      |                                                    |                    |                    |                    |                    |
| Primary pump (high efficiency circulation pump)                     | W    | 5 to 70                                            | 5 to 70            | 5 to 70            | 5 to 145           | 5 to 145           |
| – Energy efficiency index EEI                                       |      | ≤ 0.21                                             | ≤ 0.21             | ≤ 0.21             | ≤ 0.21             | ≤ 0.21             |
| Secondary pump (high efficiency circulation pump)                   | W    | 5.7 to 87                                          | 5.7 to 87          | 5.7 to 87          | 4 to 131           | 4 to 131           |
| – Energy efficiency index EEI                                       |      | ≤ 0.21                                             | ≤ 0.21             | ≤ 0.21             | ≤ 0.21             | ≤ 0.21             |
| Max. power consumption, control unit                                | W    | 1000                                               | 1000               | 1000               | 1000               | 1000               |
| Rated output, control unit/PCB                                      | W    | 12                                                 | 12                 | 12                 | 12                 | 12                 |

## Specification (cont.)

| Type BWC                                                                                                                  |       | 201.B06                               | 201.B08   | 201.B10   | 201.B13   | 201.B17   |
|---------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|-----------|-----------|-----------|-----------|
| <b>Refrigerant circuit</b>                                                                                                |       |                                       |           |           |           |           |
| Refrigerant                                                                                                               |       | R410A                                 | R410A     | R410A     | R410A     | R410A     |
| – Safety group                                                                                                            |       | A1                                    | A1        | A1        | A1        | A1        |
| – Refrigerant charge                                                                                                      | kg    | 1.40                                  | 1.95      | 1.95      | 2.15      | 2.40      |
| – Global warming potential (GWP)* <sup>†</sup>                                                                            |       | 1924                                  | 1924      | 1924      | 1924      | 1924      |
| – CO <sub>2</sub> equivalent                                                                                              | t     | 2.7                                   | 3.8       | 4.6       | 4.1       | 4.6       |
| Permiss. operating pressure                                                                                               |       |                                       |           |           |           |           |
| – High pressure side                                                                                                      | bar   | 45                                    | 45        | 45        | 45        | 45        |
|                                                                                                                           | MPa   | 4.5                                   | 4.5       | 4.5       | 4.5       | 4.5       |
| – Low pressure side                                                                                                       | bar   | 28                                    | 28        | 28        | 28        | 28        |
|                                                                                                                           | MPa   | 2.8                                   | 2.8       | 2.8       | 2.8       | 2.8       |
| Compressor                                                                                                                | Type  | Hermetically sealed scroll compressor |           |           |           |           |
| Oil in compressor                                                                                                         | Type  | Emkarate RL32 3MAF                    |           |           |           |           |
| Oil volume in compressor                                                                                                  | l     | 0.74                                  | 1.24      | 1.24      | 1.24      | 1.89      |
| <b>Dimensions</b>                                                                                                         |       |                                       |           |           |           |           |
| Total length                                                                                                              | mm    | 680                                   | 680       | 680       | 680       | 680       |
| Total width                                                                                                               | mm    | 600                                   | 600       | 600       | 600       | 600       |
| Total height (programming unit pivoted up)                                                                                | mm    | 1081                                  | 1081      | 1081      | 1081      | 1081      |
| <b>Weight</b>                                                                                                             |       |                                       |           |           |           |           |
| Total weight                                                                                                              | kg    | 145                                   | 148       | 152       | 158       | 165       |
| Heat pump module                                                                                                          | kg    | 74                                    | 77        | 81        | 87        | 94        |
| <b>Permiss. operating pressure</b>                                                                                        |       |                                       |           |           |           |           |
| Primary circuit (brine)                                                                                                   | bar   | 3.0                                   | 3.0       | 3.0       | 3.0       | 3.0       |
|                                                                                                                           | MPa   | 0.3                                   | 0.3       | 0.3       | 0.3       | 0.3       |
| Secondary circuit, heating water                                                                                          | bar   | 3.0                                   | 3.0       | 3.0       | 3.0       | 3.0       |
|                                                                                                                           | MPa   | 0.3                                   | 0.3       | 0.3       | 0.3       | 0.3       |
| <b>Connections</b>                                                                                                        |       |                                       |           |           |           |           |
| Primary circuit flow/return                                                                                               | mm    | Cu 28x1.5                             | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit flow (heating circuits)                                                                                 | mm    | Cu 28x1.5                             | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit flow (DHW cylinder)                                                                                     | mm    | Cu 28x1.5                             | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit return (heating circuits and DHW cylinder)                                                              | mm    | Cu 28x1.5                             | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| <b>Sound power</b> (tested with reference to EN 12102/EN ISO 9614-2) – weighted total sound power level at B0±3 K/W35±5 K |       |                                       |           |           |           |           |
| – At rated heating output                                                                                                 | dB(A) | 40                                    | 42        | 44        | 44        | 47        |
| <b>Energy efficiency class</b> to Commission Regulation (EU) No 813/2013                                                  |       |                                       |           |           |           |           |
| Heating, average climatic conditions                                                                                      |       |                                       |           |           |           |           |
| – Low temperature application (W35)                                                                                       |       | A+++                                  | A+++      | A+++      | A+++      | A+++      |
| – Medium temperature application (W55)                                                                                    |       | A++                                   | A++       | A++       | A++       | A++       |
| <b>Heating performance data</b> to Commission Regulation (EU) No 813/2013 (average climatic conditions)                   |       |                                       |           |           |           |           |
| Low temperature application (W35)                                                                                         |       |                                       |           |           |           |           |
| – Energy efficiency $\eta_s$                                                                                              | %     | 186                                   | 201       | 204       | 204       | 185       |
| – Rated heating output $P_{rated}$                                                                                        | kW    | 7                                     | 9         | 12        | 13        | 17        |
| – Seasonal coefficient of performance (SCOP)                                                                              |       | 4.86                                  | 5.23      | 5.32      | 5.31      | 4.82      |
| Medium temperature application (W55)                                                                                      |       |                                       |           |           |           |           |
| – Energy efficiency $\eta_s$                                                                                              | %     | 134                                   | 143       | 150       | 148       | 140       |
| – Rated heating output $P_{rated}$                                                                                        | kW    | 6                                     | 8         | 11        | 12        | 16        |
| – Seasonal coefficient of performance (SCOP)                                                                              |       | 3.56                                  | 3.79      | 3.97      | 3.90      | 3.71      |
| <b>Sound power level to ErP</b> (B0/W55)                                                                                  | dB(A) | 40                                    | 44        | 46        | 49        | 48        |

### 230 V appliances

| Type BWC-M                                                       |    | 201.B06 | 201.B08 | 201.B10 |
|------------------------------------------------------------------|----|---------|---------|---------|
| <b>Heating performance data</b> to EN 14511 (B0/W35, 5 K spread) |    |         |         |         |
| Rated heating output                                             | kW | 5.71    | 7.47    | 10.29   |
| Cooling capacity                                                 | kW | 4.32    | 5.94    | 8.20    |
| Power consumption                                                | kW | 1.36    | 1.78    | 2.32    |
| Coefficient of performance $\epsilon$ (COP)                      |    | 4.20    | 4.20    | 4.60    |

\*<sup>†</sup> Based on the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC).

## Specification (cont.)

| Type BWC-M                                                 |      | 201.B06                               | 201.B08            | 201.B10            |
|------------------------------------------------------------|------|---------------------------------------|--------------------|--------------------|
| <b>Brine</b> (primary circuit)                             |      |                                       |                    |                    |
| Capacity                                                   | l    | 3.3                                   | 3.3                | 3.9                |
| Minimum flow rate                                          | l/h  | 860                                   | 1160               | 1470               |
| Nominal flow rate                                          | l/h  | 1100                                  | 1300               | 1720               |
| Residual head                                              |      |                                       |                    |                    |
| – At minimum flow rate                                     | mbar | 635                                   | 570                | 650                |
|                                                            | kPa  | 63.5                                  | 57.0               | 65.0               |
| – At nominal flow rate                                     | mbar | 612                                   | 545                | 580                |
|                                                            | kPa  | 61.2                                  | 54.5               | 58.0               |
| Max. flow temperature (brine inlet)                        | °C   | 25                                    | 25                 | 25                 |
| Min. flow temperature (brine inlet)                        | °C   | –10                                   | –10                | –10                |
| <b>Heating water</b> (secondary circuit)                   |      |                                       |                    |                    |
| Capacity, heat pump                                        | l    | 3.3                                   | 3.5                | 3.8                |
| Capacity, total                                            | l    | 226                                   | 227                | 228                |
| Minimum flow rate                                          | l/h  | 600                                   | 710                | 920                |
| Nominal flow rate                                          | l/h  | 990                                   | 1250               | 1710               |
| Residual head                                              |      |                                       |                    |                    |
| – At minimum flow rate                                     | mbar | 610                                   | 690                | 670                |
|                                                            | kPa  | 61.0                                  | 69.0               | 67.0               |
| – At nominal flow rate                                     | mbar | 576                                   | 620                | 430                |
|                                                            | kPa  | 57.6                                  | 62.0               | 43.0               |
| Max. flow temperature                                      | °C   | 65                                    | 65                 | 65                 |
| <b>Instantaneous heating water heater</b>                  |      |                                       |                    |                    |
| Heating output                                             | kW   | 9.0                                   | 9.0                | 9.0                |
| Rated voltage                                              |      | 1/N/PE 230 V/50 Hz                    |                    |                    |
| Fuse protection                                            |      | 3 x B16A<br>1-pole                    | 3 x B16A<br>1-pole | 3 x B16A<br>1-pole |
| <b>Heat pump electrical values</b>                         |      |                                       |                    |                    |
| Rated voltage, compressor                                  |      | 1/N/PE 230 V/50 Hz                    |                    |                    |
| Rated current, compressor                                  | A    | 12.8                                  | 17.1               | 22.8               |
| Cos φ                                                      |      | 0.9                                   | 0.9                | 0.9                |
| Starting current, compressor with starting current limiter | A    | 23.9                                  | 25.6               | 38.7               |
| Starting current, compressor with stalled armature         | A    | 60                                    | 83                 | 108                |
| Compressor fuse rating                                     | A    | B16A                                  | B20A               | B25A               |
| Rated voltage, heat pump control unit/PCB                  |      | 1/N/PE 230 V/50 Hz                    |                    |                    |
| Fuse rating, heat pump control unit/PCB (internal)         |      | 6.3 A (slow) / 250 V                  |                    |                    |
| Protection class                                           |      | I                                     | I                  | I                  |
| <b>Power consumption</b>                                   |      |                                       |                    |                    |
| Primary pump (high efficiency circulation pump)            | W    | 5 to 70                               | 5 to 70            | 5 to 70            |
| – Energy efficiency index EEI                              |      | ≤ 0.21                                | ≤ 0.21             | ≤ 0.21             |
| Secondary pump (high efficiency circulation pump)          | W    | 5.7 to 87                             | 5.7 to 87          | 5.7 to 87          |
| – Energy efficiency index EEI                              |      | ≤ 0.21                                | ≤ 0.21             | ≤ 0.21             |
| Max. power consumption, control unit                       | W    | 1000                                  | 1000               | 1000               |
| Rated output, control unit/PCB                             | W    | 5                                     | 5                  | 5                  |
| <b>Refrigerant circuit</b>                                 |      |                                       |                    |                    |
| Refrigerant                                                |      | R410A                                 | R410A              | R410A              |
| – Safety group                                             |      | A1                                    | A1                 | A1                 |
| – Refrigerant charge                                       | kg   | 1.4                                   | 1.95               | 1.95               |
| – Global warming potential (GWP)* <sup>2</sup>             |      | 1924                                  | 1924               | 1924               |
| – CO <sub>2</sub> equivalent                               | t    | 2.7                                   | 3.8                | 4.6                |
| Permiss. operating pressure                                |      |                                       |                    |                    |
| – High pressure side                                       | bar  | 45                                    | 45                 | 45                 |
|                                                            | MPa  | 4.5                                   | 4.5                | 4.5                |
| – Low pressure side                                        | bar  | 28                                    | 28                 | 28                 |
|                                                            | MPa  | 2.8                                   | 2.8                | 2.8                |
| Compressor                                                 | Type | Hermetically sealed scroll compressor |                    |                    |
| Oil in compressor                                          | Type | Emkarate RL32 3MAF                    |                    |                    |
| Oil volume in compressor                                   | l    | 0.74                                  | 1.24               | 1.24               |
| <b>Dimensions</b>                                          |      |                                       |                    |                    |
| Total length                                               | mm   | 680                                   | 680                | 680                |
| Total width                                                | mm   | 600                                   | 600                | 600                |
| Total height                                               | mm   | 1081                                  | 1081               | 1081               |
| <b>Weight</b>                                              |      |                                       |                    |                    |
| Total weight                                               | kg   | 145                                   | 148                | 152                |
| Heat pump module                                           | kg   | 74                                    | 77                 | 81                 |

## Specification (cont.)

| Type BWC-M                                                                                                                                                 |       | 201.B06   | 201.B08   | 201.B10   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------|-----------|
| <b>Permiss. operating pressure</b>                                                                                                                         |       |           |           |           |
| Primary circuit (brine)                                                                                                                                    | bar   | 3.0       | 3.0       | 3.0       |
|                                                                                                                                                            | MPa   | 0.3       | 0.3       | 0.3       |
| Secondary circuit, heating water                                                                                                                           | bar   | 3.0       | 3.0       | 3.0       |
|                                                                                                                                                            | MPa   | 0.3       | 0.3       | 0.3       |
| <b>Connections</b>                                                                                                                                         |       |           |           |           |
| Primary circuit flow/return                                                                                                                                | mm    | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit flow (heating circuits)                                                                                                                  | mm    | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit flow (DHW cylinder)                                                                                                                      | mm    | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| Secondary circuit return (heating circuits and DHW cylinder)                                                                                               | mm    | Cu 28x1.5 | Cu 28x1.5 | Cu 28x1.5 |
| <b>Sound power</b> (tested with reference to EN 12102/<br>EN ISO 9614-2) – weighted total sound power level at B0 <sup>+3 K</sup> /<br>W35 <sup>+5 K</sup> |       |           |           |           |
| – At rated heating output                                                                                                                                  | dB(A) | 40        | 42        | 44        |
| <b>Energy efficiency class</b> to Commission Regulation (EU) No 813/2013                                                                                   |       |           |           |           |
| Heating, average climatic conditions                                                                                                                       |       |           |           |           |
| – Low temperature application (W35)                                                                                                                        |       | A+++      | A+++      | A+++      |
| – Medium temperature application (W55)                                                                                                                     |       | A++       | A++       | A++       |
| <b>Heating performance data</b> to Commission Regulation (EU) No 813/2013 (average climatic conditions)                                                    |       |           |           |           |
| Low temperature application (W35)                                                                                                                          |       |           |           |           |
| – Energy efficiency $\eta_s$                                                                                                                               | %     | 201       | 214       | 194       |
| – Rated heating output $P_{rated}$                                                                                                                         | kW    | 6         | 9         | 12        |
| – Seasonal coefficient of performance (SCOP)                                                                                                               |       | 5.23      | 5.54      | 5.06      |
| Medium temperature application (W55)                                                                                                                       |       |           |           |           |
| – Energy efficiency $\eta_s$                                                                                                                               | %     | 133       | 151       | 143       |
| – Rated heating output $P_{rated}$                                                                                                                         | kW    | 6         | 8         | 11        |
| – Seasonal coefficient of performance (SCOP)                                                                                                               |       | 3.52      | 3.98      | 3.76      |
| <b>Sound power level to ErP</b> (B0/W55)                                                                                                                   | dB(A) | 40        | 44        | 46        |

## Water/water heat pump specification

### 400 V appliances

| Type BWC in conjunction with "conversion kit for water/water heat pump" |      | 201.B06 | 201.B08 | 201.B10 | 201.B13 | 201.B17 |
|-------------------------------------------------------------------------|------|---------|---------|---------|---------|---------|
| <b>Heating performance data</b> to EN 14511 (W10/W35, 5 K spread)       |      |         |         |         |         |         |
| Rated heating output                                                    | kW   | 7.53    | 9.80    | 13.41   | 16.89   | 22.59   |
| Cooling capacity                                                        | kW   | 5.80    | 8.52    | 11.61   | 14.46   | 19.17   |
| Power consumption                                                       | kW   | 1.23    | 1.57    | 2.11    | 2.61    | 3.68    |
| Coefficient of performance $\epsilon$ (COP)                             |      | 6.11    | 6.24    | 6.37    | 6.46    | 6.15    |
| <b>Brine</b> (primary intermediate circuit)                             |      |         |         |         |         |         |
| Capacity                                                                | l    | 3.3     | 3.3     | 3.9     | 4.5     | 5.9     |
| Minimum flow rate                                                       | l/h  | 1440    | 2120    | 2880    | 3300    | 4450    |
| Residual head at minimum flow rate                                      | mbar | 570     | 300     | 770     | 624     | 290     |
|                                                                         | kPa  | 57.0    | 30.0    | 77.0    | 62.4    | 29.0    |
| Max. flow temperature (brine inlet)                                     | °C   | 25      | 25      | 25      | 25      | 25      |
| Min. flow temperature (brine inlet)                                     | °C   | 7.5     | 7.5     | 7.5     | 7.5     | 7.5     |
| <b>Heating water</b> (secondary circuit)                                |      |         |         |         |         |         |
| Capacity                                                                | l    | 3.3     | 3.5     | 3.8     | 4.6     | 5.7     |
| Minimum flow rate                                                       | l/h  | 650     | 850     | 1160    | 1450    | 1990    |
| Residual head at minimum flow rate                                      | mbar | 610     | 680     | 625     | 660     | 540     |
|                                                                         | kPa  | 61.0    | 68.0    | 62.5    | 66.0    | 54.0    |
| Max. flow temperature                                                   | °C   | 65      | 65      | 65      | 65      | 65      |

### 230 V appliances

| Type BWC-M in conjunction with "conversion kit for water/water heat pump" |    | 201.B06 | 201.B08 | 201.B10 |
|---------------------------------------------------------------------------|----|---------|---------|---------|
| <b>Heating performance data</b> to EN 14511 (W10/W35, 5 K spread)         |    |         |         |         |
| Rated heating output                                                      | kW | 7.62    | 9.95    | 13.44   |
| Cooling capacity                                                          | kW | 6.48    | 8.60    | 11.66   |
| Power consumption                                                         | kW | 1.36    | 1.64    | 2.27    |
| Coefficient of performance $\epsilon$ (COP)                               |    | 5.61    | 6.07    | 5.92    |

## Specification (cont.)

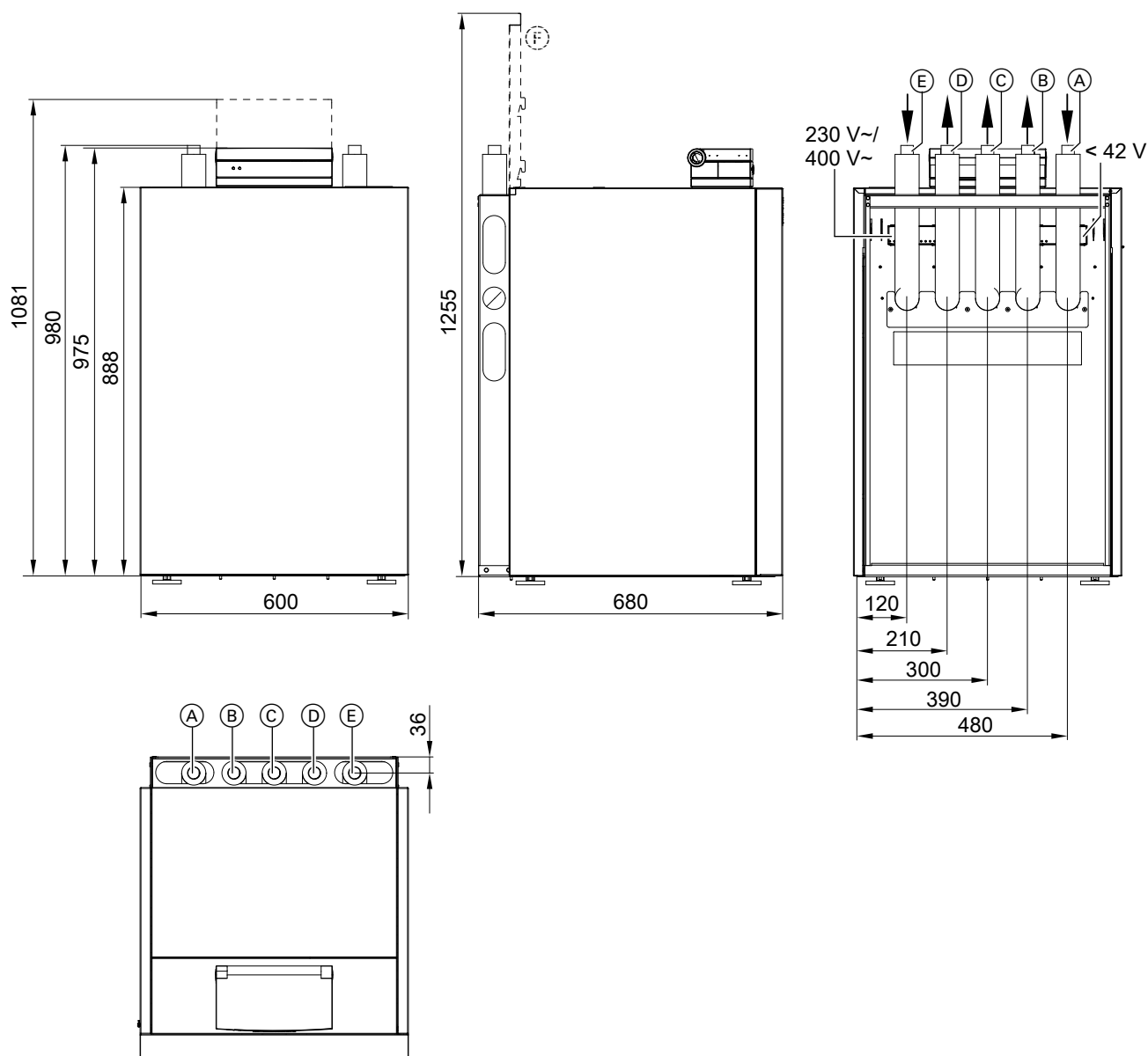
| Type BWC-M in conjunction with "conversion kit for water/water heat pump" |      | 201.B06 | 201.B08 | 201.B10 |
|---------------------------------------------------------------------------|------|---------|---------|---------|
| <b>Brine</b> (primary intermediate circuit)                               |      |         |         |         |
| Capacity                                                                  | l    | 3.3     | 3.3     | 3.8     |
| Minimum flow rate                                                         | l/h  | 1600    | 2130    | 2890    |
| Residual head at minimum flow rate                                        | mbar | 535     | 295     | 770     |
|                                                                           | kPa  | 53.5    | 29.5    | 77.0    |
| Max. flow temperature (brine inlet)                                       | °C   | 25      | 25      | 25      |
| Min. flow temperature (brine inlet)                                       | °C   | 7.5     | 7.5     | 7.5     |
| <b>Heating water</b> (secondary circuit)                                  |      |         |         |         |
| Capacity                                                                  | l    | 3.3     | 3.5     | 3.8     |
| Minimum flow rate                                                         | l/h  | 660     | 860     | 1160    |
| Residual head at minimum flow rate                                        | mbar | 608     | 675     | 625     |
|                                                                           | kPa  | 60.8    | 67.5    | 62.5    |
| Max. flow temperature                                                     | °C   | 65      | 65      | 65      |

### Note

Further specifications: See "Specification – brine/water heat pumps".

## Specification (cont.)

### Dimensions



- |                                                                                |                                                                                         |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| (A) Primary circuit flow (heat pump brine inlet), connection Cu 28 x 1.5 mm    | (D) Secondary circuit flow (heating circuits), connection Cu 28 x 1.5 mm                |
| (B) Primary circuit return (heat pump brine outlet), connection Cu 28 x 1.5 mm | (E) Secondary circuit return (heating circuits DHW cylinder), connection Cu 28 x 1.5 mm |
| (C) Secondary circuit flow (DHW cylinder), connection Cu 28 x 1.5 mm           | (F) Rear top panel, pivoted open                                                        |

Subject to technical modifications.

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