

## Product Data Sheet (2021-10-20)

### Single Pump Control

Flextronic


The Flextronic is a new control platform developed by Flamco for further optimising the performance of its automats and expanding their functionality. At the same time, Flamco brings (wireless) remote communication and data that enables preventative maintenance.

Flamcomat G4

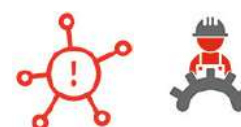
For pressurisation, deaeration and topping up in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

The Flamcomat G4 is a pump-controlled, low-maintenance expansion unit that efficiently absorbs differential pressures in heating and cooling installations and effectively removes gas. After all, the formation of gas in the installation can cause dirt accumulation, corrosion and wear, leading to faults and a loss of efficiency. Investing in the Flamcomat G4 means opting for certainty and flexibility. The Flamcomat G4 has a number of automatic functions, for the filling procedure and balancing, temperature monitoring and leak detection. The system is also suitable for connecting into a smart Co-Operation mode configuration and for communicating with it remotely (with the Flextronic and Remote Service).



| Type*            | For boiler output [kW] | Working pressure [bar] | Dimensions L. x W. x H. [mm] | Connection to |              |              |  | Order Code |
|------------------|------------------------|------------------------|------------------------------|---------------|--------------|--------------|---|------------|
|                  |                        |                        |                              | Vessel        | System conn. | Water supply |   |            |
| <b>MM / G4</b>   | 100 - 200              | 1.2 - 3.0              | 530 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17940      |
| <b>M02 / G4</b>  | 500 - 2300             | 1.2 - 3.5              | 530 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17943      |
| <b>M10 / G4</b>  | 900 - 4700             | 2.0 - 5.0              | 530 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17944      |
| <b>M20 / G4</b>  | 1600 - 8400            | 2.0 - 5.0              | 570 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17945      |
| <b>M60 / G4</b>  | 1400 - 4700            | 3.5 - 8.5              | 550 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17946      |
| <b>M80 / G4</b>  | 1400 - 4900            | 4.7 - 10.2             | 550 x 230 x 930              | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17947      |
| <b>M100 / G4</b> | 1300 - 5200            | 5.9 - 14.1             | 550 x 230 x 1000             | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17884      |
| <b>M130 / G4</b> | 3300 - 5300            | 8.0 - 14.4             | 610 x 230 x 1190             | G 1" M        | G 1 1/4" F   | Rp 1/2"      | 1   | 17886      |

\* For larger, more powerful systems please contact Flamco.



| Type             | Nominal voltage     | Rated current [A] | Rated power [kW] | Noise level [dB] | Protection class of pump unit | Design pressure [PN] | Pump orientation |
|------------------|---------------------|-------------------|------------------|------------------|-------------------------------|----------------------|------------------|
| <b>MM / G4</b>   | 230 V ~1 N PE 50 Hz | 0.43              | 0.09             | 54               | IP44                          | PN 6                 | hor.             |
| <b>M02 / G4</b>  | 230 V ~1 N PE 50 Hz | 2.77              | 0.62             | 52               | IP44                          | PN 10                | hor.             |
| <b>M10 / G4</b>  | 230 V ~1 N PE 50 Hz | 4.4               | 0.75             | 49               | IP44                          | PN 10                | hor.             |
| <b>M20 / G4</b>  | 230 V ~1 N PE 50 Hz | 7.2               | 1.1              | 64               | IP44                          | PN 10                | hor.             |
| <b>M60 / G4</b>  | 230 V ~1 N PE 50 Hz | 7.4               | 1.1              | 52               | IP44                          | PN 10                | vert.            |
| <b>M80 / G4</b>  | 400 V ~3 N PE 50 Hz | 3.4               | 1.5              | 54               | IP44                          | PN 16                | vert.            |
| <b>M100 / G4</b> | 400 V ~3 N PE 50 Hz | 4.75              | 2.2              | 54               | IP44                          | PN 16                | vert.            |
| <b>M130 / G4</b> | 400 V ~3 N PE 50 Hz | 6.4               | 3.0              | 54               | IP44                          | PN 16                | vert.            |
| <b>DM / G4</b>   | 230 V ~1 N PE 50 Hz | 0.86              | 0.18             | 57               | IP44                          | PN 6                 | hor.             |
| <b>D02 / G4</b>  | 230 V ~1 N PE 50 Hz | 5.54              | 1.24             | 55               | IP44                          | PN 10                | hor.             |
| <b>D10 / G4</b>  | 230 V ~1 N PE 50 Hz | 8.8               | 1.5              | 52               | IP44                          | PN 10                | hor.             |
| <b>D20 / G4</b>  | 230 V ~1 N PE 50 Hz | 14.4              | 2.2              | 67               | IP44                          | PN 10                | hor.             |
| <b>D60 / G4</b>  | 230 V ~1 N PE 50 Hz | 14.8              | 2.2              | 55               | IP44                          | PN 10                | vert.            |
| <b>D80 / G4</b>  | 400 V ~3 N PE 50 Hz | 6.8               | 3.0              | 57               | IP44                          | PN 16                | vert.            |
| <b>D100 / G4</b> | 400 V ~3 N PE 50 Hz | 9.5               | 4.4              | 57               | IP44                          | PN 16                | vert.            |
| <b>D130 / G4</b> | 400 V ~3 N PE 50 Hz | 12.8              | 6.0              | 57               | IP44                          | PN 16                | vert.            |

## Advantages

### Flextronic

- Optimal connectivity with BMS, Modbus, BACnet via RS 485 and ethernet interface.
- Can be combined with Flamconnect Remote Service. (Please check your local sales office for availability.)
- Extensive data storage for online and offline analysis.
- 'Extended screen' operation via mobile or tablet device.
- Also suitable for existing automats (available as a retrofit kit).
- Three configurable potential free outputs.
- The user-friendly control unit displays all operating and error conditions in a comprehensible and convenient way.
- Advanced technology ensures lowest power consumption, long service life and easy maintenance.
- Operating modes: single (mono), automatic change-over or load dependent (duo) and combined operation.
- Microprocessor control, self-learning, with graphical display.
- 20 languages can be selected in the menu of the Flextronic.

### Flamcomat G4

- Simple commissioning.

- Automatic leakage detection.
- Automatic filling of vessel and system.
- Scalable thanks to Co-Operation mode option.
- If you have a unit with multiple pumps and valves balancing ensures that the runtime of the components is automatically and evenly distributed.
- Suitable for installations with high temperatures (> 110 °C) in combination with accessory 17504.
- Efficient operation and low power consumption.
- Suitable for Flamconnect Remote Service. (Please check your local sales office for availability.)
- Automatically performs volumetric control and automatic topping-up during the heating or cooling cycles.
- Integrated turbo degassing allows for very rapid degassing.
- The degassing function allows for continuous degassing if desired.
- Due to the hydraulic design of the Flamcomat G4 and the connection sets the vessel can be positioned anywhere around the Flamcomat.
- Beams are fitted to the Flamcomat G4 for protection of components and easy transport into hard to reach places.
- The position of the second pump on a double pump Flamcomat G4 can be positioned on either side of the Flamcomat.
- The Flamcomat G4 pump units require approximately 50% less surface area compared to older models.

## Technical Specifications

- Maximum system pressure: 6, 10 and 16 bar.
- Working temperature: 3 °C / 70 °C.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- In accordance with Machinery Directive 2006/42/EC.



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[Installation and operating instruction \(Slovenian\)](#)

[Retrofit quick start guide Flamcomat](#)

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[Connectivity guide](#)

[Co-Operation mode on pressurisation automats with Flextronic control](#)

[FAQ: Co-Operation mode on pressurisation automats with Flextronic control](#)

[Declaration of conformity](#)

[Flamcomat G4 DWG](#)

[Flamcomat G4 STEP](#)

[Flamcomat G4 RFA](#)

[Pump graphs](#)

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