

## Compact compressor Automat

*“The Flamcomat MK-U G4 comes with a state-of-art Flextronic Controller”*

**BMS  
ready**



## ***Flamcomat MK-C G4***

**Versatile and highly efficient**

- Simple commissioning
- Efficient operation and low power consumption
- Reliable performance through the load balancing of essential components
- Suitable for installations with high temperatures (> 110 °C)
- Scalable thanks to Co-Operation mode
- Prepared for Flamconnect Remote Service

## Compact solution for smaller commercial buildings

In order to meet the demand for automatic pressurisation automats with smaller volumes and dimensions for apartment buildings and small commercial buildings, Flamco launches the new Flamcomat MK-C G4, a compact, compressor-controlled automatic expansion unit with the Flextronic Controller and many other attractive specifications.

*The Flamcomat MK-C G4 is a compactly modelled compressor controlled expansion automat designed for smaller buildings with limited space. The MK-C effectively absorbs differential pressures in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations which cannot tolerate the rise in pressure associated with standard sealed system equipment.*

*The Flamcomat MK-C G4 offers a number of automatic*

*functions for balancing, temperature monitoring and leak detection and comes with the latest Flextronic controller, allowing for optional remote communication (Flamconnect). The system is also suitable for connecting into a co-operation mode configuration.*

*The Flamcomat MK-C G4 is delivered completely pre-assembled and ready for operation. Installation is both simple and fast due to the adjustable system connection.*

### Space saving

The Flamcomat MK-C G4 expansion vessel is 85% efficient, traditional expansion vessels are typically 50% at best (system characteristics may reduce this substantially). As a result the MK-C system always represents a reduction in space required.

### Ergonomic operation

The compressor and the Flextronic Controller are attached to the top of the machine, which means that the controller can be operated in an ergonomic way. The controller and the extremely quiet compressor are protected by an impact-resistant housing, which also ensures a pleasing design.

### Modular, expandable, flexible design

The design principle relies on the use of a pressurised, intelligent expansion vessel. Multiple vessels can be interlinked to match the total system requirement. This also allows for the use of multiple smaller volume vessels where headroom (vertical height) is limited.

### Intelligent Expansion Vessel

The system as a whole sees the equipment as a traditional expansion vessel, comprising of a wet side and a dry (air cushion) side. The 'intelligent' difference is that as expanded water enters the vessel, the control system vents air from the gas cushion to allow the expanded fluid into the vessel without changing the pressure as a whole.

### Smart co-operation mode by default

You can add the Flamcomat MK-C G4 to a co-operation mode configuration. For example, if you want to expand the installation's capacity (upscaling) or give the system a backup/redundancy feature. In this co-operation mode, the main automat automatically determines the number of active and available automats and the priority in which they are used, so that the number of operating hours is distributed evenly amongst all the units. You can connect a maximum of 10 Flamcomat MK-C G4 expansion units with each other in one co-operation mode network.

### Automatic temperature monitoring

When the system temperature rises above 110 °C, there is a danger of overheating as a consequence of steam formation or overheated water. The Flamcomat MK-C G4 is Flamco's second expansion unit to automatically switch off above the temperature limit and to supply a potential free signal that can be used to interrupt the central heating installation. The system thus naturally complies with directives EN12952 and EN12953.

### Flamcomat kit 110 °C

In order to use the 110 °C mode, a Flamcomat kit 110° is required. This is available via Part. no. 17504.



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### Fixed diaphragm

The Flamcomat MK-C G4 comes with a fixed, flexible rubber membrane. The membrane is known for its long service life. The vessels are designed for a maximum water absorption of 85% and can be compared with those of the Flamcomat MK-U product range with an exchangeable butyl membrane.

### Communication with BMS

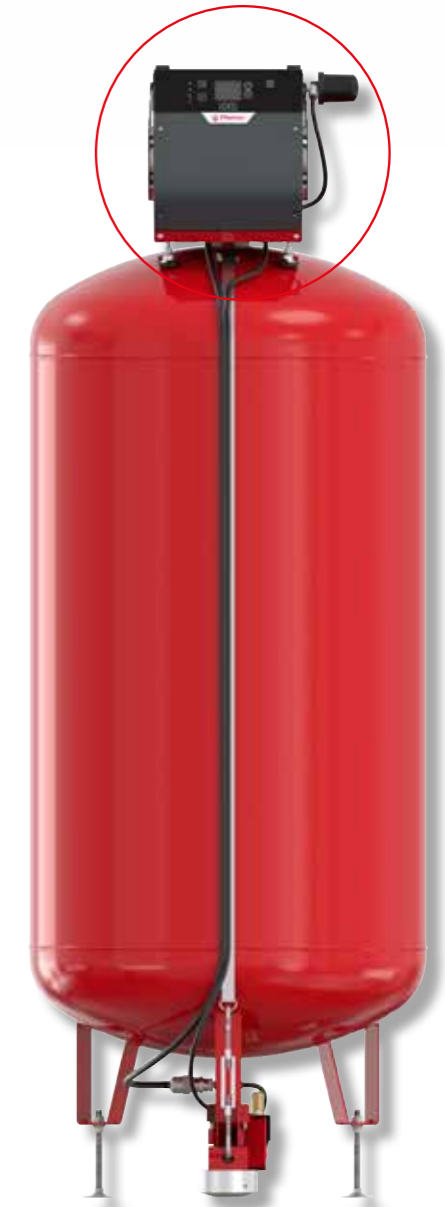
Installing a Flamcomat MK-C G4 unit equipped with the Flextronic Controller lets you connect to most building management systems. Each Flextronic Controller has two physical ports with the corresponding Modbus or BACnet communication protocols.

### Floating Master function \*

A new feature is that each automat can automatically take over in the event of the Master failing or functioning poorly ('Floating Master') without interrupting the pressure maintenance of your system.

### Balanced pressure, to +/- 0.2 bar

The Flamcomat MK-C G4 will maintain the system pressure to +/- 0.2 bar regardless of the position in the thermal cycle. This means that there is no difference between the static pressure (cold) and the running pressure (hot).



Type	Capacity [l]	Max. working pressure [bar]	Design pressure [PN]	Dimensions		Syst. conn.	Weight [kg]	Order Code
				Ø [mm]	Height [mm]			
Flamcomat MK-C 110	110	5,4	6,0	509	1225	G 1 "	38	23225
Flamcomat MK-C200	200	5,4	6,0	600	1400	G 1 "	55	23226
Flamcomat MK-C 325	325	5,4	6,0	600	1820	G 1 "	79	23229
Flamcomat MK-C350	350	5,4	6,0	790	1465	G 1 "	71	23227
Flamcomat MK-C425	425	5,4	6,0	790	1620	G 1 "	77	23228

See [www.flamcogroup.com](http://www.flamcogroup.com) for all technical specifications of the Flamcomat MK-C G4 and the Flextronic Controller.

\* Patent pending



We supply heating system products to installation companies in more than 70 countries. We do so by making use of a network of subsidiaries and wholesalers who are familiar with the local market and thus always able to provide expert advice.

**Flamcomat MK-C G4**  
**Compact compressor**  
**Automat**

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