



# MK-C Flamcomat PU Expansion Automats Instruction Manual

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# MK-C Flamcomat PU Expansion Automats Instruction Manual

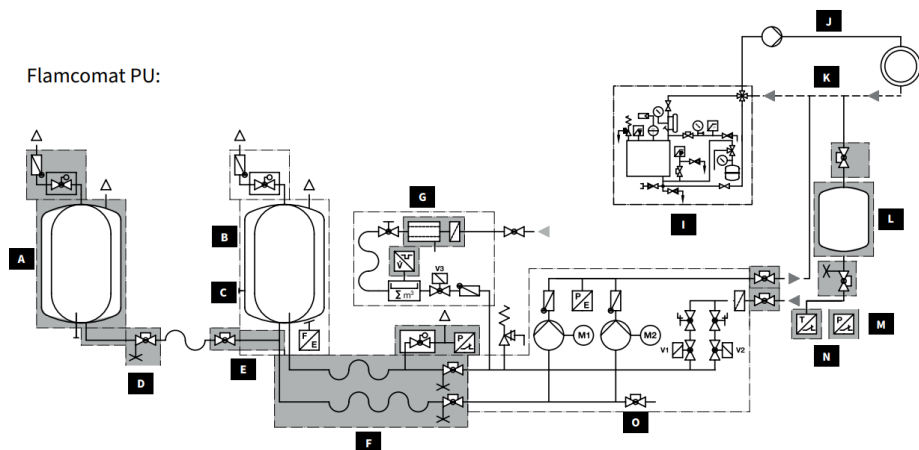


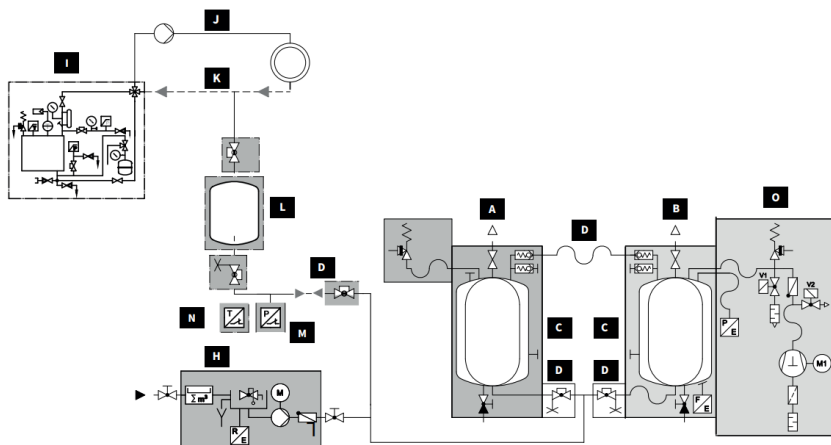
## Installation and operating instructions

> 110° Safety Set Flamcomat G3 – G4 and Flexcon

M-K/U expansion automats for system over 110° C according EN 12953-6 2011.

Flamcomat PU:





## Installation and operating instructions

This manual describes how Flamco expansion automats could be used in heating systems where the Boiler supply line temperature is exceeding 110°C according EN 12953-6 2011 and is therefore applicable for Europe.

This instruction is a supplement to the main Installation and Operating instructions: Flamcomat G3/G4 and Flexcon M-K/U, see DocFinder [www.flamcogroup.com](http://www.flamcogroup.com).

### Suitable for Flamco controllers

#### Flextronic:

- The Flextronic controller is plug-and-play ready for >110°C applications.
- Next to the hydraulic layout and sensors on the next pages, there is also a failsafe boiler cut-off output that must be connected according EN 12953-6 2011.
- [Art.: 17504] Kit with plug-and-play connection piece with Temperature limiter, Minimal pressure limiter and wiring.
- [Art.: 22386] Membrane rupture sensor is Flamco advised to use together with the >110°C kit.

Settings and terminal connections are mentioned in the Quick Start Guides delivered with our products.

#### SPC:

- The SPC controller can be used with the same sensors and kit mentioned for the Flextronic, but has no boiler
- Upgrade with a Flextronic retrofit kit.
- Provide a fail save boiler cut-off connected to the general fault terminals of the SPC.

Settings and terminal connections are mentioned in the Quick Start Guides delivered with our products.

The general fault connection (terminals 13-14) will open when there is an error/problem in the heating system or automat. This is an normally Closed (NC) contact that will also open in case off power loss or broken controller. Minimal faults that must be activated in [MENU 8-4] of the SPC-controller:

1. Pressure (standard setting)
2. Level vessel (standard setting)


3. Diaph. rupture (only when this option is installed)
4. Min. Pressure limiter
5. Temp. monitor

	Legend	Optional	EN12953required	Flamco recommended
A	Auxillary Vessel	x		
B	Main Vessel		x	x
C	Membrane rupture Sensor	x		x
D	Lockshield Valve with Draining	x	x	x
E	Auxillary vessel flexible Connection	x		
F	Flamcomat main Vessel flexible Connection		x	
G	Refill / Top-up line (available with impuls water meter, water filter)	(x)		x
H	Refill / Top-up pump unit (for suppletion under system pressure)	x		(x)
I	Heat generator		x	x
J	Heating system supply line (> 105° C)		x	x
K	Heating system return line (< 90° C)		x	x
L	Intermediate Vessel Flexcon V-B	x	x	x
M	Minimum pressure Safety Switch	x	x	x
N	Bimetalic temperature Switch	x	x	x
O	Automatic controlled Compressor- / Pump Unit		x	x

#### Excluded:

supply, is to be provided by user. Evidence of conversion and release for operation This must be documented and made available to the owner/operator.

## Documents / Resources

	<p><a href="#">Flamco MK-C Flamcomat PU Expansion Automats</a> [pdf] Instruction Manual MK-C, MK-C Flamcomat PU Expansion Automats, Flamcomat PU Expansion Automats, Expansion Automats, Automats</p>
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## References

-  [DocFinder | Flamco Group](#)
-  [Flow of Innovation | Flamco Group](#)

Manuals+.