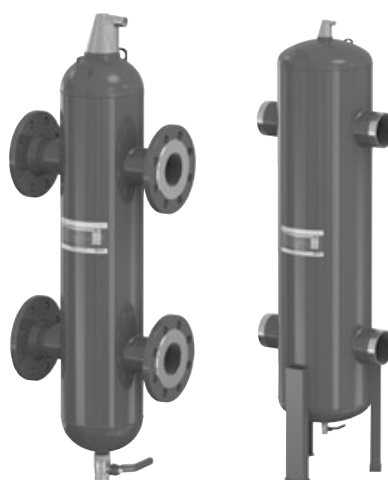




## FlexBalance® (Plus)

|     |                                               |    |
|-----|-----------------------------------------------|----|
| ENG | Installation and operating instnction         | 2  |
| DEU | Montage- und Bedienungsanleitung              | 4  |
| NLD | Montage- en gebruikshandleiding               | 6  |
| FRA | Installation et mode d'emploi                 | 8  |
| ESP | Instrucciones de instalación y funcionamiento | 10 |
| ITA | Istruzioni d'installazione e d'uso            | 12 |
| DAN | Monterings- og driftsvejledning               | 14 |
| NOR | Installasjons- og bruksanvisning              | 16 |
| SWE | Instruktioner för installation och drift      | 18 |
| FIN | Asennus- ja käyttöohjeet                      | 20 |
| POL | Instrukcja montażu i obsługi                  | 22 |
| HUN | Telepítési és üzemeltetési útmutató           | 24 |
| CES | Návod k instalaci a obsluze                   | 26 |
| SLK | Návod na montáž a obsluhu                     | 28 |
| RUS | Инструкции по установке и эксплуатации        | 32 |
| TUR | Montaj ve kullanma kılavuzu                   | 34 |



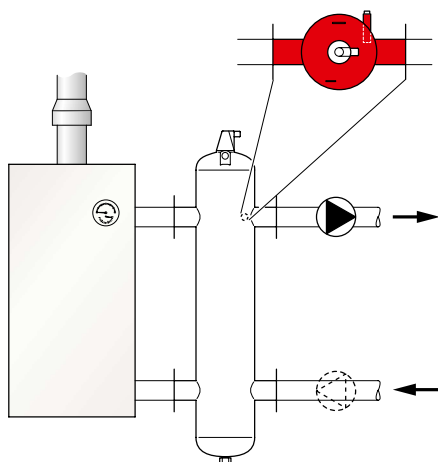
|            |                                                                    |                   |                      |
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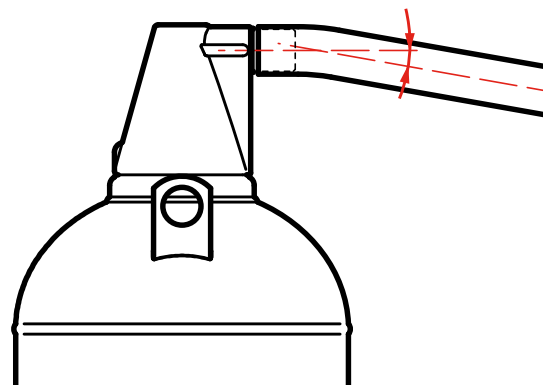


# Flamco

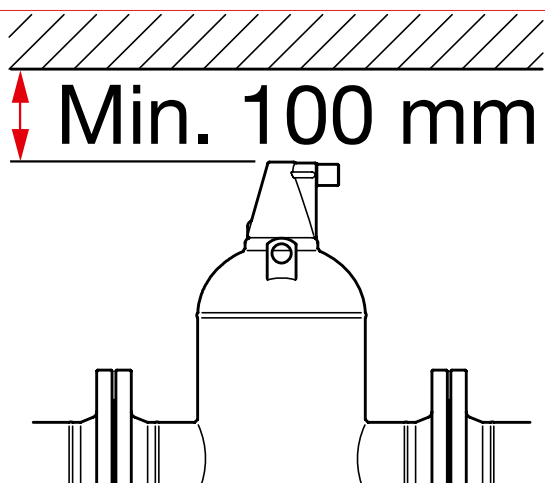
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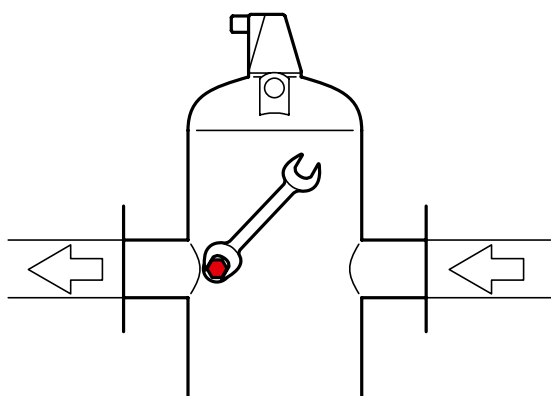
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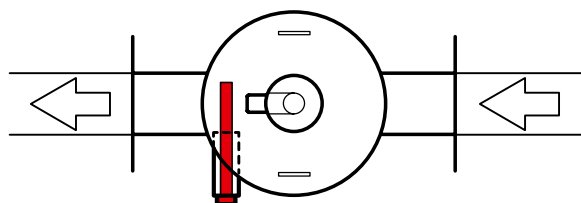
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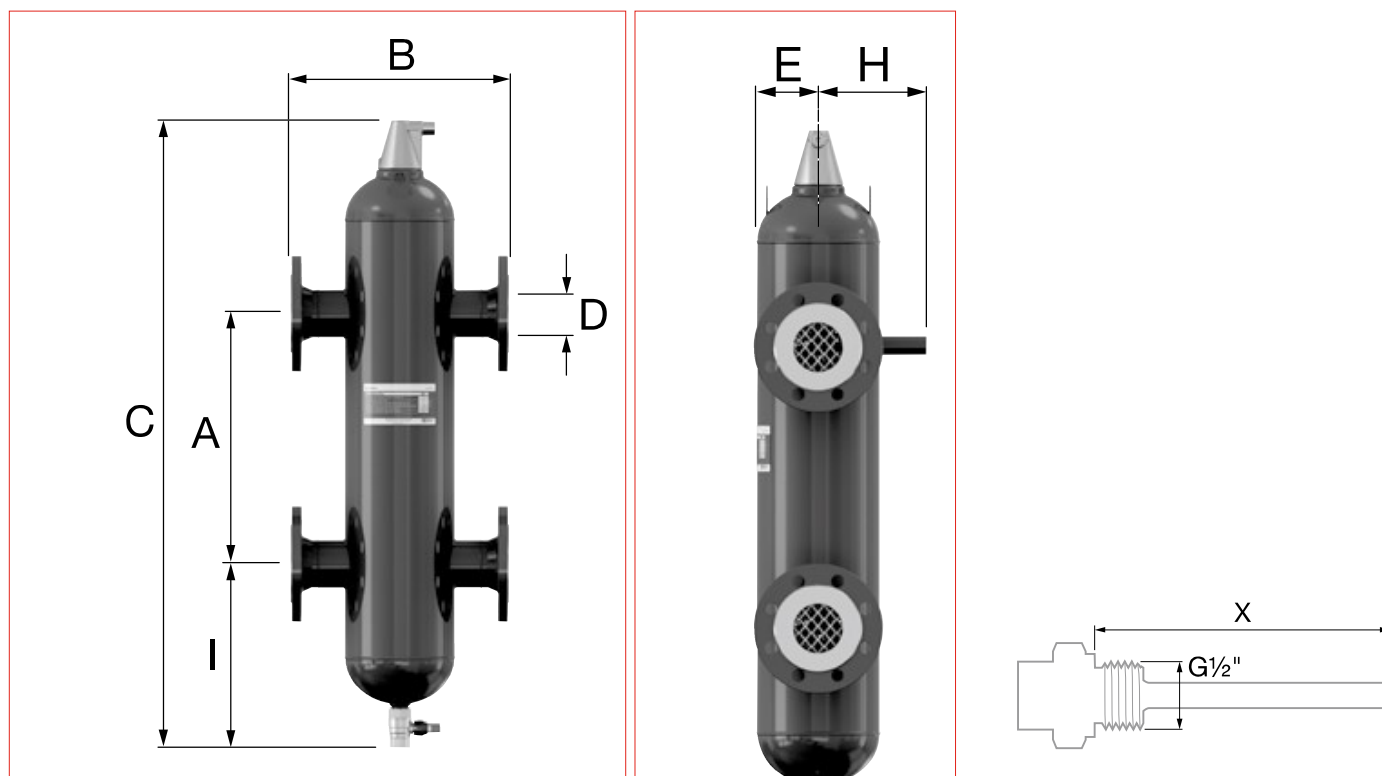


5



6





|                  |        | [mm] |        |        |        |      | [Ø]   | [mm] |     |     |
|------------------|--------|------|--------|--------|--------|------|-------|------|-----|-----|
|                  |        | A    | B      |        |        | C    | D     | E    | F   | X   |
|                  |        |      | Type F | Type S | Type R |      |       |      |     |     |
| FlexBalance      | DN 50  | 490  | 350    | 260    | 260    | 900  | 60,3  | 88   | 154 | 150 |
| FlexBalance      | DN 65  | 635  | 350    | 260    | 260    | 1045 | 76,1  | 88   | 154 | 150 |
| FlexBalance      | DN 80  | 745  | 470    | 370    | 370    | 1340 | 88,9  | 135  | 188 | 200 |
| FlexBalance      | DN 100 | 965  | 470    | 366    | 366    | 1585 | 114,3 | 135  | 188 | 200 |
| FlexBalance      | DN 125 | 1180 | 635    | 525    | 525    | 2065 | 139,7 | 180  | 213 | 250 |
| FlexBalance      | DN 150 | 1430 | 774    | 664    | 664    | 2385 | 168,3 | 225  | 237 | 250 |
| FlexBalance      | DN 200 | 1860 | 1000   | 876    | 876    | 3155 | 219,1 | 300  | 277 | 250 |
| FlexBalance      | DN 250 | 2340 | 1220   | 1080   | -      | 3940 | 273   | 400  | 325 | 300 |
| FlexBalance      | DN 300 | 2790 | 1220   | 1064   | -      | 4390 | 323,9 | 400  | 369 | 400 |
| FlexBalance      | DN 350 | 3060 | 1580   | 1416   | -      | 5160 | 355,6 | 500  | 398 | 400 |
| FlexBalance      | DN 400 | 3500 | 1870   | 1700   | -      | 5915 | 406,4 | 600  | 432 | 400 |
|                  |        |      |        |        |        |      |       |      |     |     |
| FlexBalance PLUS | DN 50  | 400  | 350    | 260    | 260    | 960  | 60,3  | 88   | 154 | 150 |
| FlexBalance PLUS | DN 65  | 400  | 350    | 260    | 260    | 960  | 76,1  | 88   | 154 | 150 |
| FlexBalance PLUS | DN 80  | 625  | 470    | 370    | 370    | 1390 | 88,9  | 135  | 188 | 200 |
| FlexBalance PLUS | DN 100 | 625  | 470    | 366    | 366    | 1390 | 114,3 | 135  | 188 | 200 |
| FlexBalance PLUS | DN 125 | 830  | 635    | 525    | 525    | 2015 | 139,7 | 180  | 213 | 250 |
| FlexBalance PLUS | DN 150 | 1040 | 774    | 664    | 664    | 2345 | 168,3 | 225  | 237 | 250 |
| FlexBalance PLUS | DN 200 | 1400 | 1000   | 876    | 876    | 3145 | 219,1 | 300  | 277 | 250 |
| FlexBalance PLUS | DN 250 | 1850 | 1220   | 1080   | -      | 4000 | 273   | 400  | 325 | 300 |
| FlexBalance PLUS | DN 300 | 1850 | 1220   | 1064   | -      | 4000 | 323,9 | 400  | 369 | 400 |
| FlexBalance PLUS | DN 350 | 2325 | 1580   | 1416   | -      | 5170 | 355,6 | 500  | 398 | 400 |
| FlexBalance PLUS | DN 400 | 2700 | 1870   | 1700   | -      | 5965 | 406,4 | 600  | 432 | 400 |



## 1. General

The FlexBalance (Plus) allows hydraulic separation between the primary and secondary circuits of commercial heating systems and is supplied complete with an automatic vent. The FlexBalance Plus can also act as an air and dirt separator.

FlexBalance (Plus) |10 bar is in accordance with the Pressure Equipment Directive 2014/68/EU. A declaration of conformity is available from Flamco on request.  
Or see [www.flamcogroup.com](http://www.flamcogroup.com) --> Support --> Certificates.

The FlexBalance (Plus) is suitable for heating and cooling systems that use anti-freeze with a glycol content of up to 50%.

The FlexBalance (Plus) can be fitted with an immersion pipe with temperature sensor.

Minimum and maximum system temperature:

–10 °C - see label.

Maximum system pressure:

10 bar.



### Safety requirements

Installation and maintenance must be carried out by qualified personnel.

Observe local regulations and guidelines.

## 2. Installation



Flush the installation thoroughly installing the FlexBalance (Plus).

Install the FlexBalance (Plus) in a dry location not susceptible to frost and which is easily accessible for maintenance purposes.

The FlexBalance (Plus) should be connected vertically to the flow and return circuit as close to the boiler as possible (**fig. 1**).

**Note:** the sensor connection must be located at the outlet side to the installation (the second circuit) (**fig. 1**).

For maximum efficiency the flow rate in the flow pipe should be approx. 1 m/s (maximum 2 m/s).

The valve end of the air vent has an external measurement of 22 mm allowing it to be easily attached to the air venting pipe which should slope downwards (**fig. 2**).

For ease of maintenance there must be a clearance (**fig. 3**) of at least 100 mm above the air vent.

Before using the temperature sensor, remove the plug from the sensor connection and install an immersion pipe with a G½" connection. See the table for the correct immersion pipe length (**X**) (**fig. 5, 6**).

## 3. Inspection and maintenance

Perform regular inspections.

To remove the silt that collects inside the FlexBalance Plus use the drain tap (only for FlexBalance Plus).

To flush the FlexBalance (Plus) properly it is recommended to place the product between stop valves. In the unlikely event of contamination or leakage from the air vent this valve can be closed by turning the integrated screw (**fig. 4**).

## 4. Removal

Depressurise the system and remove the FlexBalance (Plus).

Observe local regulations for disposing of the FlexBalance (Plus).

