



Compact automatic charging unit with BA type backflow preventer

574 series

Function - Features

- specific for automatic charging of heating system sealed circuits, with backflow prevention in accordance with EN 1717 standard.
- pre-adjustable automatic filling unit, with pressure indicator. Complete with shut-off cock and pressure gauge. Can be pre-adjusted before installation in order to guarantee the required pressure setting.
- BA type controllable backflow preventer with reduced pressure zone, certified to EN 12729. Prevents the contaminated water in the sealed heating circuit to flow back into the domestic water supply network.
- complete with shut-off valve and inspectable strainer upstream.
- complete with pre-formed shell insulation.
- compact unit, with reduced size, to facilitate plumbing installation.

Product range

Code **574011** Compact automatic charging unit with BA type backflow preventer.
Size 1/2" M with union.



574 series

Reference documentation:

 [tech.broch. 01161](#)

Technical specifications

Performance

Medium:	drinking water
Max. working pressure:	10 bar
Max. working temperature:	65°C
Acoustic group:	II

Backflow preventer

Designation:	Family B, Type A
Certification:	EN 12729
Pressure test ports:	upstream, intermediate, downstream
Upstream strainer mesh Ø:	0,4 mm

Filling unit

Setting range:	0,2–4 bar
Factory set:	1,5 bar
Indicator accuracy:	± 0,15 bar
Pressure gauge range:	0–4 bar
Internal strainer mesh Ø:	0,28 mm

Connections: 1/2" M with union

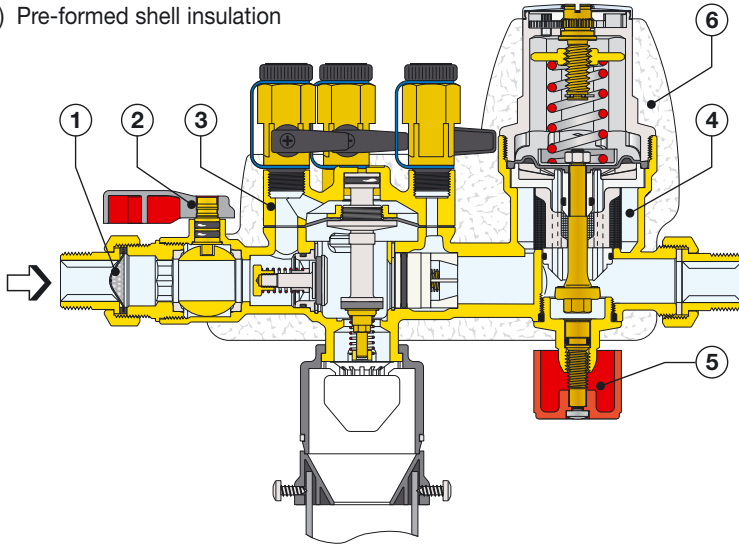
Backflow preventer and its use

To avoid back-syphonage of water from the heating system, which is potentially polluted and dangerous for human health, it is indispensable to install a pre-assembled charging unit with a backflow preventer.

The correct use of hydraulic backflow preventers is governed by the European reference standard EN 1717: 2000 "Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow".

The charging unit 574 series is composed of:

- 1) Inspectable strainer
- 2) Ball shut-off valve
- 3) BA type controllable backflow preventer with reduced pressure zones
- 4) Pre-adjustable filling unit with pressure gauge
- 5) Shut-off cock
- 6) Pre-formed shell insulation



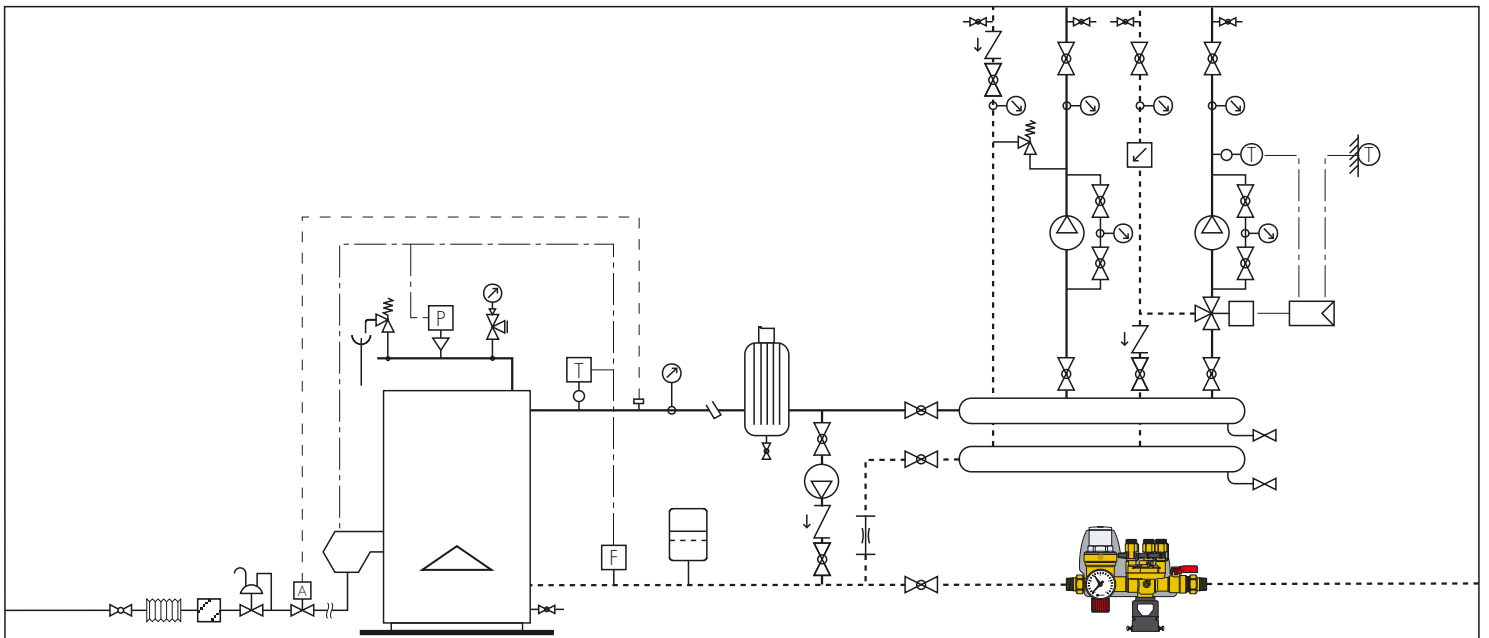
The controllable backflow preventer with reduced pressure zones is a BA type, certified to European standard EN 12729 - "Devices to prevent pollution by backflow of potable water. Controllable backflow preventer with reduced pressure zone. Family B - Type A". It may be used to protect against the risk of contamination by waters classified up to **Category 4** (heating systems with reference to European standard EN 1717): "Fluid that represents a significant health hazard due to the presence of one or more toxic or highly toxic substances or one or more radioactive, mutagenic or carcinogenic substances".

Pre-adjustment

This model is provided with a pressure regulation indicator, which facilitates the setting operations. The system filling pressure may be set, turning the regulating screw, even before the system filling phase begins.



Application diagram



We reserve the right to make changes and improvements to the products and related data in this publication, at any time and without prior notice.

CALEFFI S.P.A. · I · 28010 FONTANETO D'AGOGNA (NO) · S.R. 229, N.25 · TEL. +39 0322 8491 R.A. · FAX +39 0322 863723

· www.caleffi.com · info@caleffi.com ·

© Copyright 2009 Caleffi