



Technopolymer deaerator **DISCAL®**

551 series

www.caleffi.com



- Allows the separation of the air contained in heating and cooling systems.
- Automatically removes all the air present in the circuits down to micro-bubble level, with minimal pressure drops.
- Adjustable for horizontal and vertical pipes.
- Reduces the potential for wear on boilers, heat exchangers and pipes.
- Fitted with a high-performance automatic hygroscopic air vent.



PRODUCT RANGE

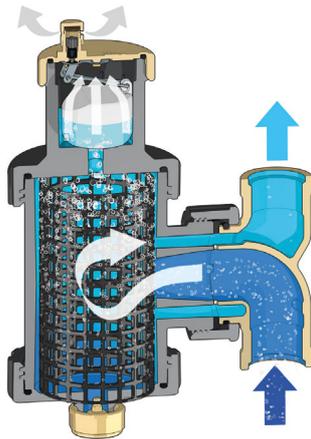


CODE	CONNECTIONS
551205	3/4"
551206	1"
551207	1 1/4"
551208	1 1/2"
551209	2"
551202	Ø 22
551203	Ø 28

TECHNICAL SPECIFICATIONS

Working temperature range	0–90 °C
Max. working pressure	3 bar
Maximum percentage of glycol	30 %

CROSS SECTION



INSULATION

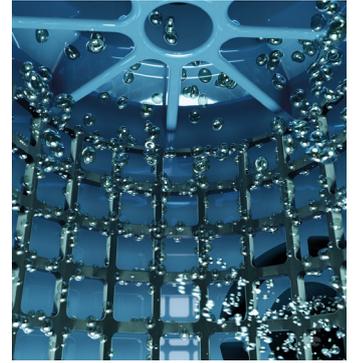
For all DISCAL devices in the 551 series, PPE insulation is available for the use of such devices in heating and cooling applications.



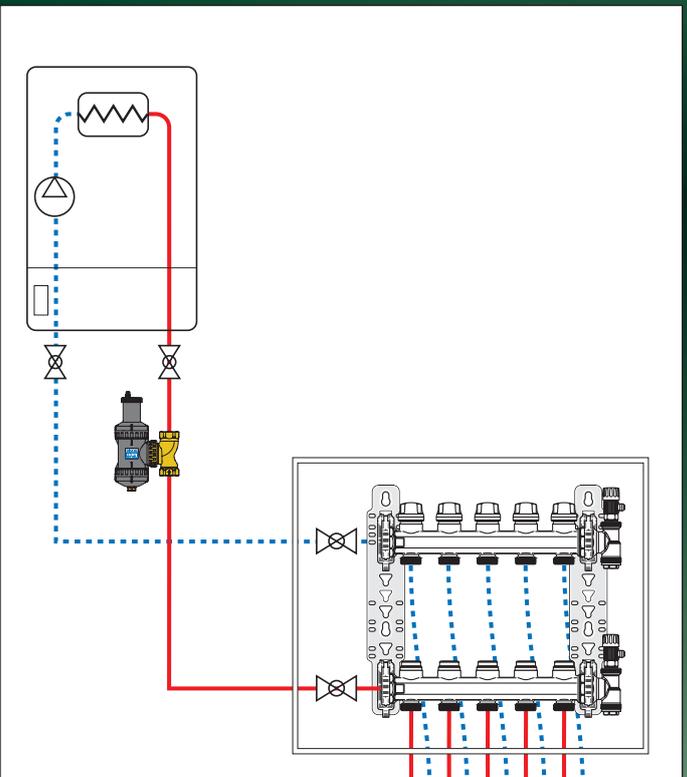
OPERATING PRINCIPLE

The deaerator utilises the combined action of several physics principles. The active part consists of a set of concentric mesh surfaces. These elements create the swirling motion required to facilitate the release of micro-bubbles and their adhesion to the surfaces.

The bubbles, fusing with each other, increase in volume until the hydrostatic thrust is sufficient to overcome the force of adhesion to the structure. They then rise towards the top of the device and are expelled through a float-operated automatic air vent valve. It is designed in such a way that the direction in which the medium is flowing inside it makes no difference.



APPLICATION DIAGRAM



REFERENCE DOCUMENTATION

551 series

- Tech. broch. 01429

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Hydronic Solutions

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