



# Automatic water treatment unit

580020 series

[www.caleffi.com](http://www.caleffi.com)



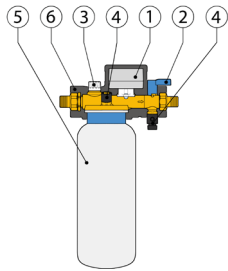
- The automatic water treatment unit is used for filling/refilling closed circuits in compliance with the directives of standard VDI 2035.
- The unit can be configured both to soften and demineralise the closed circuit filling water.
- Reduces limescale formation and other phenomena which can cause heating system damage and malfunctions.
- The built-in electronic monitoring system makes it easier to understand when the spent cartridge needs replancing.
- Complete with conductivity measuring cell to constantly control the electrical conductivity of the water.



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## PRODUCT RANGE

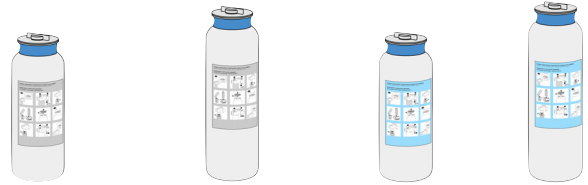
Code
580020



The unit is completed with:

- 1 Electronic meter
- 2 Ball shut-off valve
- 3 Stem shut-off valve
- 4 Adjustable drain valve
- 5 Cartridge
- 6 Pre-formed insulation

Code	Cartridge code			
	580900	580901	580902	580903
Treatment	Demineralisation	Demineralisation	Softening	Softening
Volume	2,7 l	4,5 l	2,7 l	4,5 l
Max. flow rate	2 l/min	4 l/min	2 l/min	4 l/min



## OPERATING PRINCIPLE

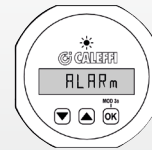
The automatic water treatment unit is used to treat the water in closed circuits of heating and cooling systems. It can be configured with demineralisation or softening cartridges, depending on the type of treatment required on the system and the volume of water being treated. The demineralised water is ideal for preventing corrosion and limescale in the circuit (according to standard VDI 2035), while softened water is poor in calcium and magnesium ions, which are the main cause of incrustations (according to standard VDI 2035).

## ELECTRONIC METER

The electronic meter is equipped with:

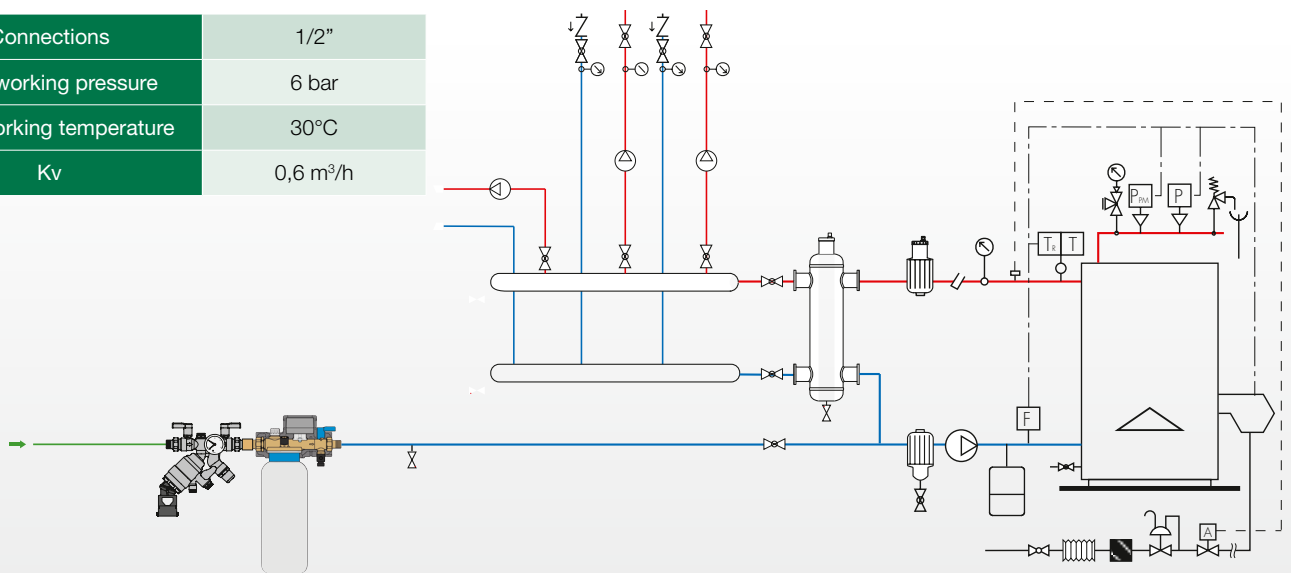
- a water flow rate meter to measure the volume of water entering the system during filling and subsequent top-ups.
- a built-in conductivity measuring cell to check the treatment level of the water in the system and the consumption of the treatment cartridges at any time.

The controller has a LED alarm light to indicate when the cartridge fitted is spent.



## TECHNICAL SPECIFICATIONS

Connections	1/2"
Max. working pressure	6 bar
Max. working temperature	30°C
Kv	0,6 m³/h



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