

## elector S10-V

### Reaction tank for electrochemical conditioning of heating water

#### Description

The elector S10-V reaction tank is used for the electrochemical treatment of heating water and is an ideal protection device for heating systems against water-side corrosion without the addition of chemical corrosion inhibitors.

The main function of the elector S10-V is the treatment of electrochemical water, which leads to a stabilisation of the pH value, to a continuous consumption of oxygen and to the purification of the water. A cyclone-like water flow and internally installed separation plates intensify the separation of impurities and the deaeration of the heating system by means of a quick deaerator. In addition, an integrated strong filter rod magnet effectively removes magnetic particles from the heating water.



<b>Application area</b>	Water conditioning for corrosion protection in heating systems
<b>Operating temperature</b>	max. 90°C
<b>Operating pressure</b>	6 bar
<b>Test pressure</b>	10 bar
<b>Tank material</b>	Stainless steel 1.4301 (V2A)
<b>Insulation</b>	HT/ARMAFLEX 19 mm, stainless steel sheet metal jacket

Model	System volume* max.	System volume estimated**	Assembly	Max.flow m <sup>3</sup> /h	Δp at ~max. flow [kPa]	Item no.
elector S10-V	1.5 m <sup>3</sup>	~18.5 l/kW UFH ~12 l/kW Radiators	Wall	4.3	5.44	14020

\* Without consideration of buffer tanks

\*\* For old systems with a new heat generator, add approx. 20% to the heating capacity.

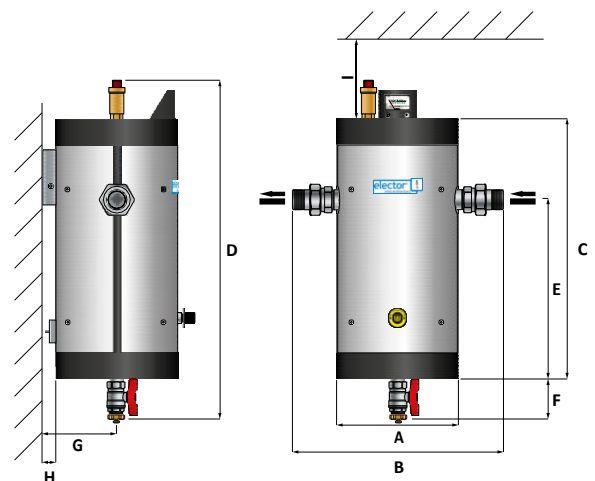
#### Scope of delivery

- elector S10-V Reaction tank incl. connection set for installation in full flow.

#### Installation note

- Please refer to the elector user manual.
- The device is installed in the full flow (flow or return flow).

Dimensions in mm		
A	Tank diameter	233
B	Total width	400
C	Tank height	470
D	Total height	625
E	Tank bottom – middle inlet / outlet	320
F	Height of ball valve	90
G	Wall – middle inlet / outlet	138
H	Wall – Tank	20
I	Clearance upwards, min.	250
Connection thread		1 1/4"
Empty weight (without connection set)		11.3 kg
Shipping weight		18.5 kg



#### Compatible spare parts

- elector magnesium anode for elector S10, incl. seal (article no. 52030)

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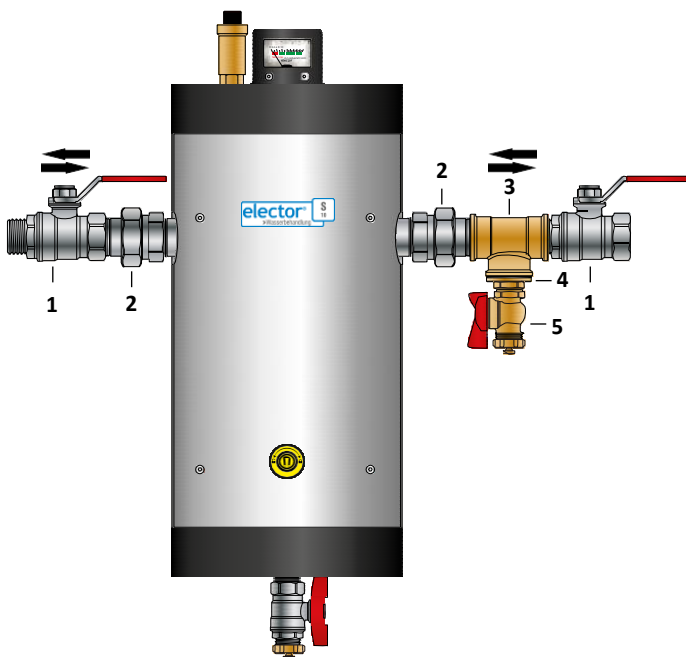
### Installation

Please read the elector user manual prior to installation. Here you can learn more about the ideal installation location as well as about operation and maintenance of the elector S10-V.

The integration of the elector corrosion protection system into the system should always be carried out using the elector connection set. The connection set is designed for the device and guarantees its function.

**The elector S10-V is designed for installation in full flow (return or flow).** The S10-B (article 14040) is available with a bypass connection set for installation in the bypass.

#### Full-flow connection set – elector S10-V



#### Assembly

When selecting the installation location, it is important to ensure good access to the upper tank cover for subsequent maintenance. The clearance to the top should be at least 200 mm.

The elector reaction tank can be mounted freely suspended in the pipeline or on the wall.

#### Information on the wall bracket

For wall mounting, there is a wall bracket on the back of the tank.

The wall bracket is mounted on the side using cylinder screws.

First loosen the wall bracket and then mount it on the wall. Then reattach the elector tank to the wall bracket.



The connection set for installation in full flow encompasses:

- (1) 1 1/4" ball valve
- (2) Straight screw connection 1 1/4"
- (3) T-piece 1 1/4" x 1/2" x 1 1/4"
- (4) Fill and drain cock 1/2"

#### Operating note

In addition to the elector, if circulating air bubbles are present, the installation of a micro bubble separator is a useful addition if the elector reaction tank is to be installed in the main return flow. In addition, the heating system must be operated with heating water with an electrical conductivity of <math><100 \mu\text{S}/\text{cm}</math> to ensure an optimum corrosion protection concept.