elector®
›Water-Treatment

elector S10-B

Reaction tank for electrochemical conditioning of heating water

Description
The elector S10-B 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-B 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.

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

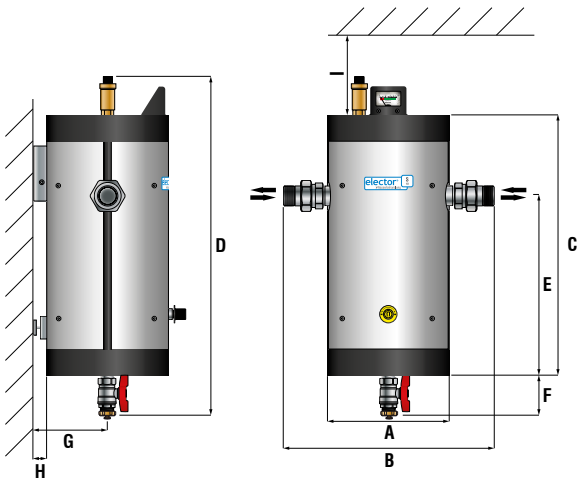
Type designation	System volume* max.	System volume estimated**	Assembly	Regulated flow m³/h	Article no.
elector S10-B	1,5 m³	~18,5 l/kW UFH ~12 l/kW Radiators	Wall	0,12	14040

* 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-B Reaction tank incl. connection set for installation in bypass

Installation note
- Please refer to the elector user manual.
- The device is installed in a bypass

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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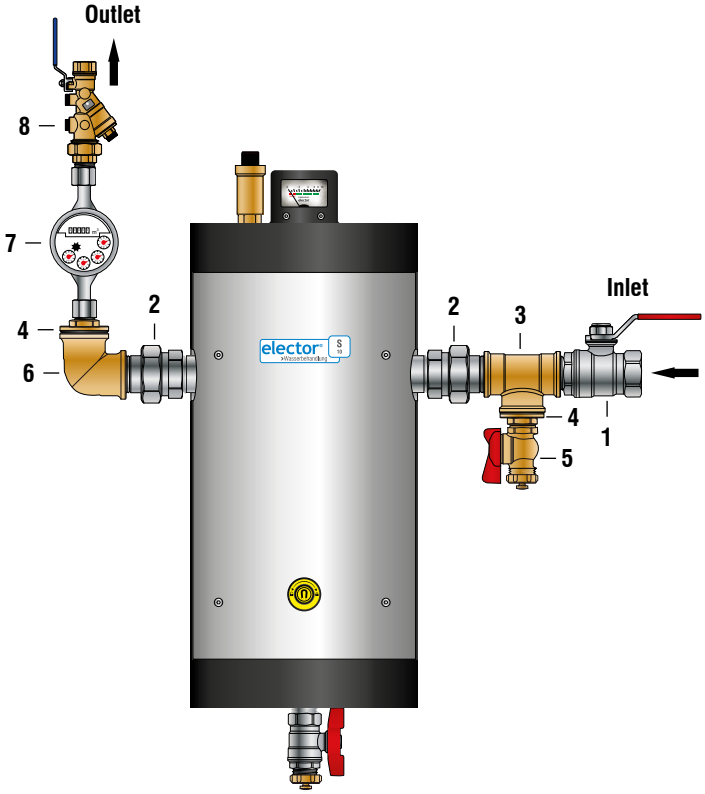
Installation

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-B.

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-B is designed for bypass installation. The S10-V (article 14020) is available with full flow connection set for a full flow installation.

Bypass connection set – elector S10-B



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 the bypass includes:

(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“
(5) Elbow 90° 1 1/4“
(6) Reduction 1 1/4“ x 1/2“
(7) 1/2“ water meter
(8) Automatic regulating valve 2 l/min with drainage

Operating note

If circulating air bubbles are present, the installation of a micro bubble separator is a useful addition and if the water is contaminated with particles, we recommend the installation of a sludge separator with magnets. In addition, to ensure an optimum corrosion protection concept, the heating system must be operated with heating water that has an electrical conductivity of
$<100\ \mu S/cm$.

As from: 09/19