

elector XS5

Reaction tank for electrochemical water conditioning

Description

The elector XS5 reaction tank is used for electrochemical treatment of heating and cooling water and is an ideal protection device for closed water systems against water-side corrosion without the addition of chemical corrosion inhibitors.

The main function of the elector XS5 is electrochemical treatment of 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 system by means of a deaerator. In addition, a powerful magnetic filter rod effectively removes magnetic particles from the heating water.

Application area	Electrochemical water conditioning in closed water systems, such as heating and cooling systems.
Operating temperature	max. 90°C
Operating pressure	6 bar
Test pressure	10 bar
Tank material	Stainless steel 1.4301 (V2A), pickled and passivated HT/
Insulation	ARMAFLEX 19 mm, stainless steel sheet metal jacket



Model	System volume* max.	System volume estimated**	Assembly	Max.flow m ³ /h	Δp at ~max. flow [kPa]	Item no.
elector XS5	Heatingwater-0.5m ³ Coolingwater-0.5m ³	~18.5 l/kW UFH ~12 l/kW Radiators	Wall	2.4	4.68	14010

* Without consideration of buffer tanks

** For old systems with a new boiler, add approx. 20% to the heating power.

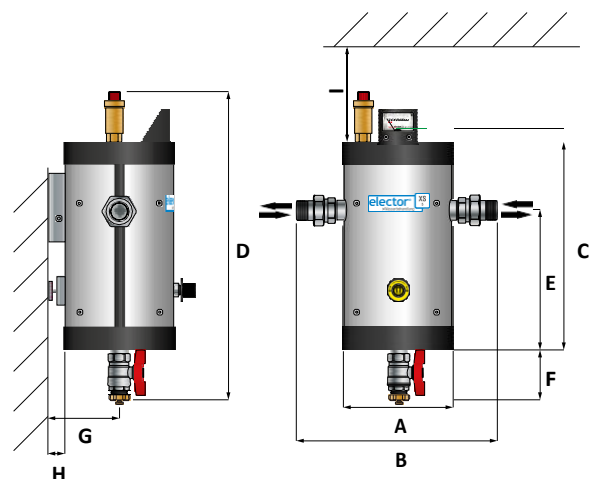
Scope of delivery

- elector XS5 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	170
B	Total width	310
C	Tank height	300
D	Total height	473
E	Tank bottom – middle inlet / outlet	200
F	Height of ball valve	90
G	Wall – middle inlet / outlet	108
H	Wall – Tank	20
I	Clearance upwards, min.	200
Connection thread		1"
Empty weight (without connection set)		6.8 kg
Shipping weight		11 kg



Compatible spare parts

- elector magnesium anode for elector XS5, incl. gasket (article no. 52010)

elector XS5

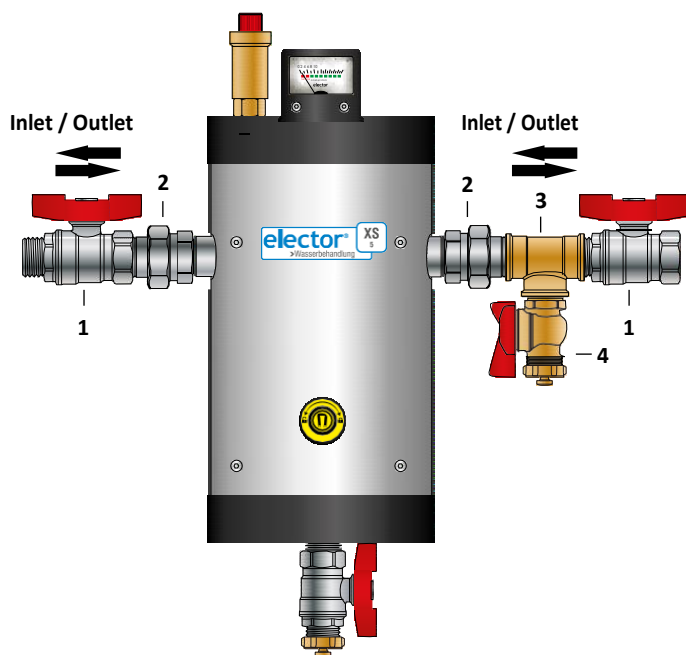
Installation

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 XS5.

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 XS5 is designed for installation in full flow (return or flow). The elector XS5-B (article 14011) is available with a bypass connection set for installation in the bypass.

Full-flow connection set – elector XS5



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" ball valve
- (2) Straight screw connection 1"
- (3) T-piece 1" x 1/2" x 1"
- (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- or cooling 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.