

HYDRO ION®
Type: HAS 6

Application

Our HYDRO ION® HAS 6 is designed as a mobile water softener. The system is perfectly applicable for filling of smaller air-conditioning and closed heating circuits (single- and multiple family houses) as well as electroplating baths and any application which requires softened water.

The water softener is used for the production of fully softened water for technical applications. The HYDRO ION® HAS 6 is not suited for the use in the drinking water applications.

Design

For filling of air conditioning or heating circuits the system is connected to the cold water feed pipe directly after a system separator according to DIN EN 1717.

The water softener can be fed with water of any degree of hardness if the feed water corresponds in all other analytical parameters to the drinking water regulation. It is to be observed that any feeding with non-drinking water may lead to a damage of the high-quality cation exchanger caused by unwanted substances.

Carefully keep in mind that the capacity of the softener resin filling is limited. Regeneration with brine can be performed on site if the resin is exhausted (see installation example page 2). The brine tank is part of the scope of supply.



Scope of supply

HYDRO ION® HAS 6 consisting of:

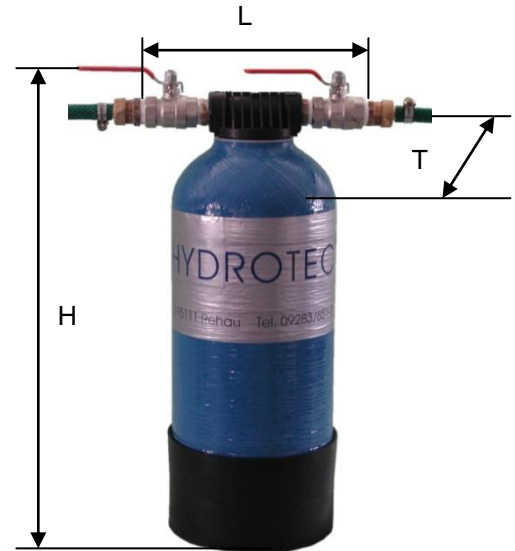
- 1 x pressure vessel, filled with cation exchange resin
- 1 x in/out manifold
- 2 x stop fittings
- 1 x connection set (2 hose connections with flat gaskets)
- 1 x regeneration accessories (injector, intake lance with foot valve, 10 l brine tub with regeneration agent, 3 flat gaskets; 1 x loose, 2 x integrated in injector)

Notes / Installation conditions

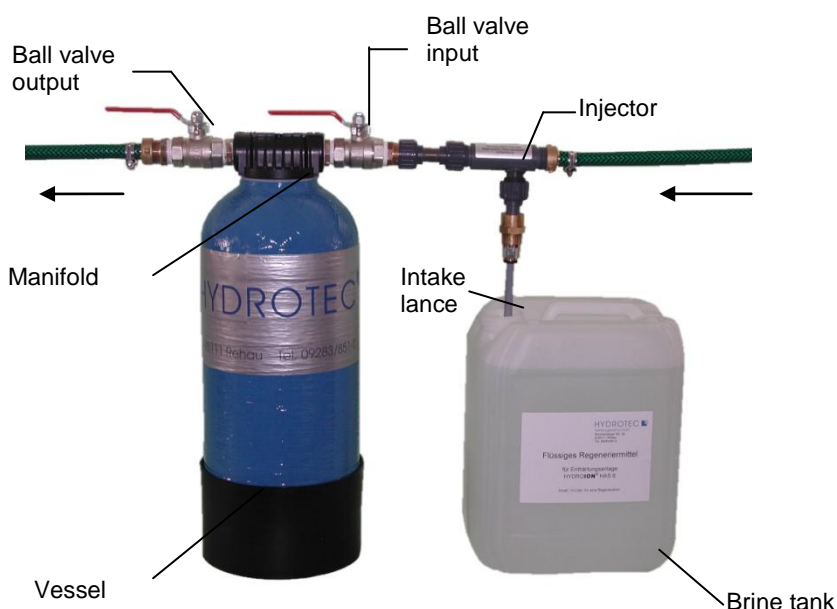
- Technical data and general technical standards as well as the local installation conditions must be observed.
- Connection of HYDRO ION® HAS 6 according to DIN EN 1717.
- The ambient temperature and possibly occurring radiation heat may not exceed 40°C.
- The installation site has to be frost-resistant.
- The installation site has to be free from solvent, colorant, varnish and chemical vapours.

Technical data

HYDRO ION [®] HAS 6	
Ion exchanger	High quality cation exchange resin
Resin volume	6 litres
Operating pressure min. / max.	2 / 8 bar
Operating temperature	+5 to +40 °C
Volume flow rate	ca. 280 l/h at 3.5 bar (pressure-dependent)
Connection input/output	3/4"
Capacity < 0.2 °dH	23 m ³ × °dH (4.1 mol alkaline earths)
Regeneration time	50 to 60 min. (pressure-dependent)
Salt consumption per regeneration	1.5 kg
Water consumption per regeneration	ca. 70 l (pressure-dependent)
Installation length (L)	260 mm
Total height (H)	ca. 600 mm
Depth (from pipe centre)	90 mm
Total depth (T)	180 mm
Operating weight	13 kg
Art.-No.	599.108
Art.-No. brine tank (10 litres)	599.116



Installation example for regeneration



HYDRO ION[®] HAS 6

Suited for filling of heating systems in single- or multiple family houses (depending on the water hardness). The HAS 6 softens the water for the initial filling according to VDI 2035 sheet 1.

The HAS 6 can be easily regenerated on site. The brine tank filled with 10 litres of brine is sufficient for one regeneration and can be ordered as liquid regeneration agent for further regenerations.

The brine can also be renewed after each regeneration of the system. In compliance with DIN EN 973 (DIN 19604) only tablet (common) salt is to be used as regeneration agent (recommendation: salt tablets).

Ca. 1.5 kg tablet salt is required for the preparation of 10 litres of brine, which is diluted in water.