

## Filling cartridge desaliQ:HB

### Intended use

The desaliQ:HB filling cartridges are used in combination with the treatment group thermaliQ:HB2 to fully demineralise water in the heating sector.

The filling cartridges can be applied for the treatment of raw water of drinking water quality.

The filling cartridges can also be used for the residual demineralisation of permeate originating from reverse osmosis systems.

### Function

The mixed bed resin removes all minerals from the water. This fully demineralised water has a low conductivity and thus reduces galvanic corrosion between metals of different electrochemical series. Monitoring the pH value is essential as it can fluctuate considerably and thus may endanger certain materials.

If the filling cartridge's capacity is exhausted, the filling cartridge must be replaced.

In case of filling cartridge desaliQ:HB4, the mixed bed resin can be replaced as an alternative.

With fully demineralised water, the limit value of 0.1 °dH stipulated by VDI 2035 can be complied with.

### Design

- Plastic housing
- Resin filling
- Use of the filling cartridge desaliQ:HB2 in combination with the cylinder of the treatment group.

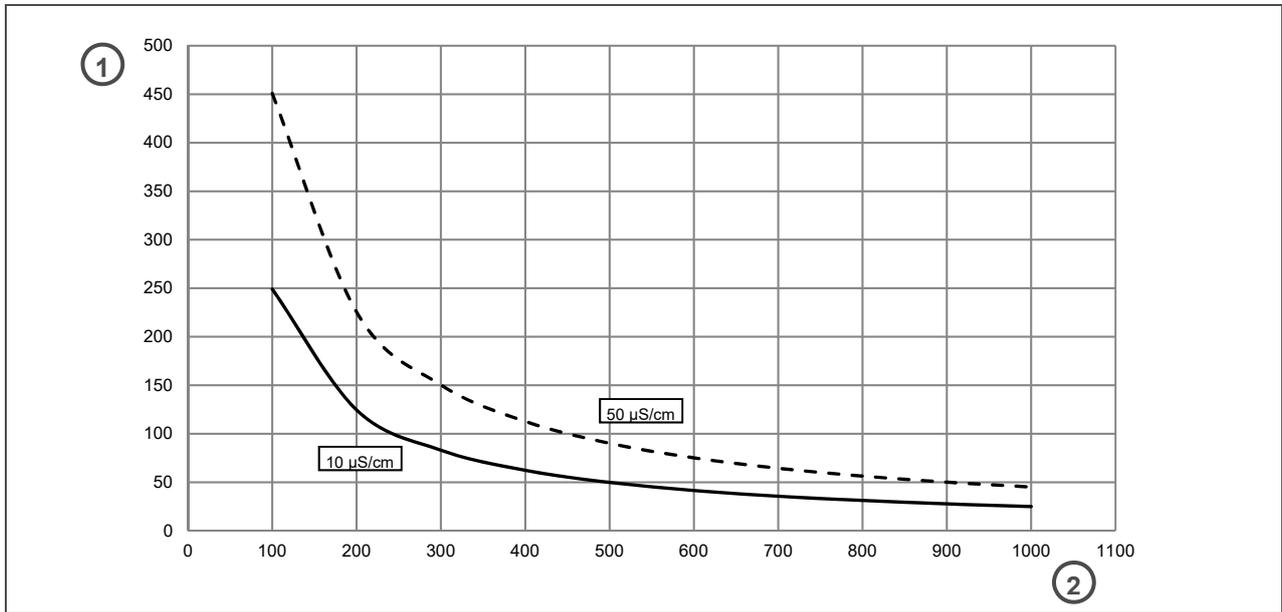
### Scope of supply

- Filling cartridge filled with mixed bed resin

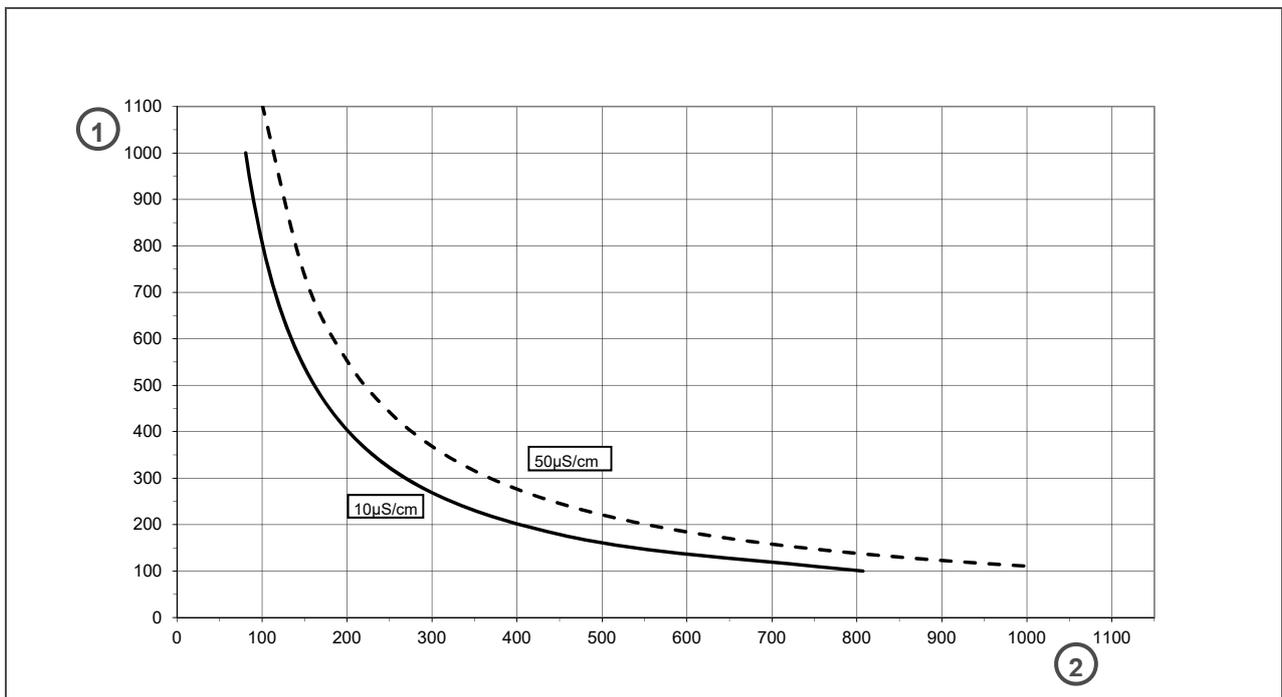
## Technical specifications

<b>Dimensions and weights</b>		<b>desaliQ:HB2</b>	<b>desaliQ:HB4</b>
Diameter of cartridge	[mm]	77	130
Tank height with bottle adapter/without bottle adapter	[mm]	365	430/400
Operating weight, approx.	[kg]	0.9	5.0
Shipping weight, approx.	[kg]	0.9	3.6
<b>Connection data</b>		<b>desaliQ:HB2</b>	<b>desaliQ:HB4</b>
Nominal connection diameter of filling cartridge			2½"
Nominal connection diameter of bottle adapter			¾"
<b>Performance data</b>		<b>desaliQ:HB2</b>	<b>desaliQ:HB4</b>
Nominal pressure		PN 6	PN 6
Min./max. operating pressure	[bar]	0 - 6	0 - 6
Nominal flow	[l/h]	200	400
<b>Filling volumes and consumption data</b>		<b>desaliQ:HB2</b>	<b>desaliQ:HB4</b>
Capacity < 10 µS/cm (< 50 µS/cm)	[µS/cm x m³]	25	80 (110)
<b>General</b>		<b>desaliQ:HB2</b>	<b>desaliQ:HB4</b>
Water temperature	[°C]	5 – 30	5 – 30
Ambient temperature	[°C]	5 – 40	5 – 40
<b>Order no. (with bottle adapter)</b>			<b>707 150</b>
<b>Order no. (without bottle adapter)</b>			<b>707 155</b>
<b>Order no.</b>		<b>707 745</b>	

Capacity of filling cartridge desaliQ:HB2



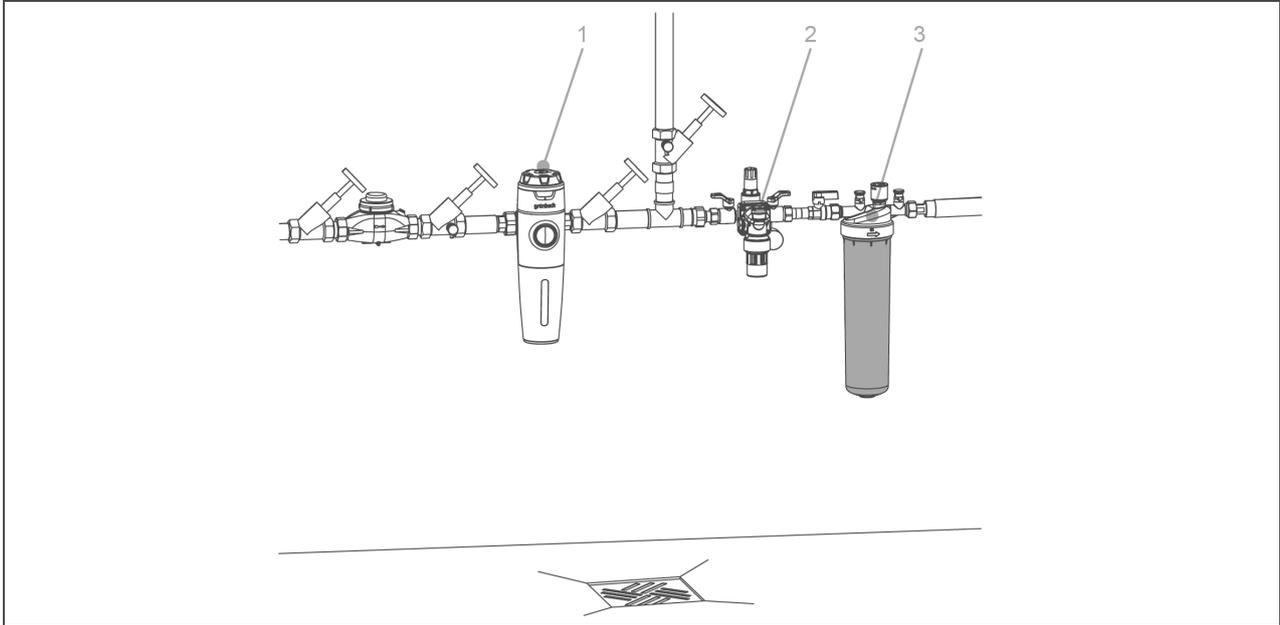
Capacity of filling cartridge desaliQ:HB4



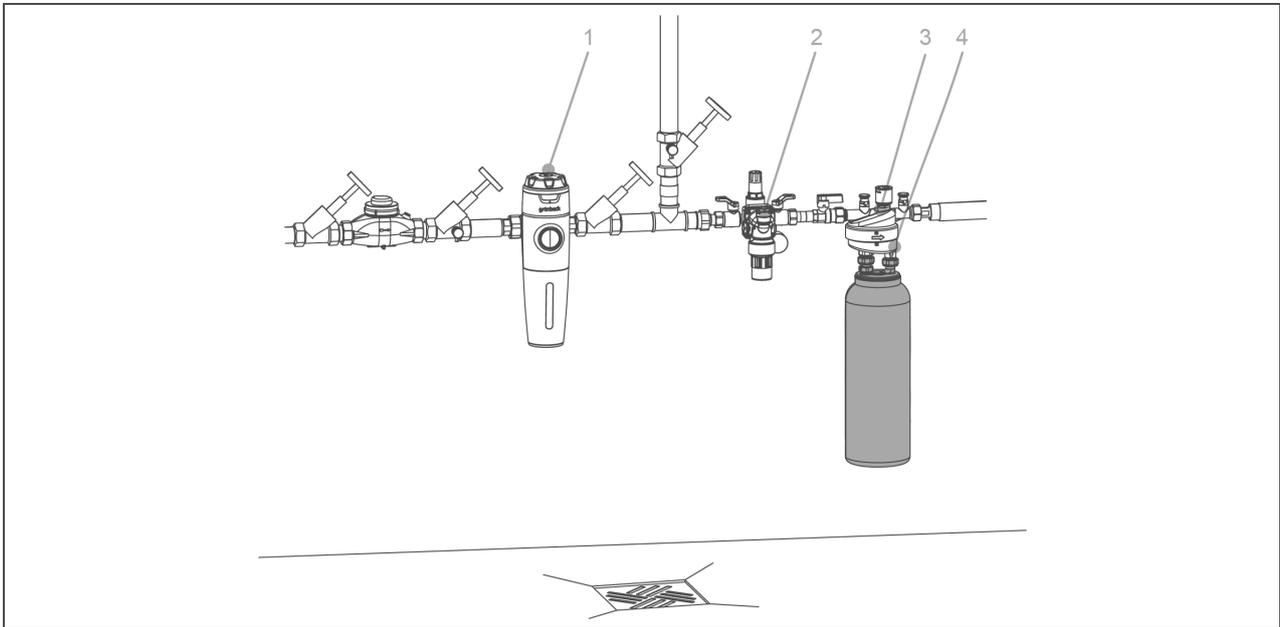
Item	Designation	Item	Designation
1	Filling volume [l]	2	Conductivity (µS/cm)

## Installation example

### Filling cartridge desaliQ:HB2



### Filling cartridge desaliQ:HB4



Item	Designation	Item	Designation
1	Drinking water filter pureliQ:KD	2	Filling group thermaliQ:SB13
3	Treatment group thermaliQ:HB	4	desaliQ connection adapter

## Installation requirements

Observe local installation directives, general guidelines and technical specifications. The installation site must be frost-proof and ensure the product's protection from chemicals, dyes, solvents and vapours.

A floor drain must be provided in the installation room. If no floor drain is available, an appropriate safety device has to be installed in order to prevent water damage.

## Accessories

### Filling group thermaliQ:SB13 Order no. 707 750

Filling group for the safe connection of a heating system to the drinking water system in compliance with the standards

### Treatment group thermaliQ:HB2 Order no. 707 755

Treatment group for the full demineralisation of raw water for the initial filling or make-up water feed of heating systems

### desaliQ connection adapter Order no. 707 276

Adapter to connect the filling cartridge desaliQ:HB4 to the treatment group thermaliQ:HB2

### desaliQ hose kit Order no. 707 850

2 drinking water hoses of 1.5 m in length to connect free-standing full demineralisation units to the treatment group thermaliQ:HB2

### GENO-therm conductivity measuring cell II with adapter Order no. 707 015

Measuring cell to monitor the capacity of the connected full demineralisation products

## Consumables

### Refill pack Order no. 707 680

Mixed bed resin to restore the exhausted filling cartridge desaliQ:HB4

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## Contact

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