



[Home](#) / [Processes](#) / [Water softening systems](#)

# Water softening systems

Hardness in water is caused by certain salts. The main hardness causing ions are Calcium ( $\text{Ca}^{2+}$ ), Magnesium ( $\text{Mg}^{2+}$ ) and Bicarbonate ( $\text{HCO}_3^-$ ). These ions or minerals are normally addressed as scale in the water causing scaling of pipes and equipment in drinking water and process water systems. Softening units offer a water purification solution for hard water and lime scale removal.

In many applications, e.g. the preparation of drinking water, water in breweries and sodas, but also cooling water and boiler feed water, the hardness of the water is of importance.

The hardness is normally measured in German degree, French Hardness or (equivalent) concentration  $\text{Ca}^{2+}$ . Softeners are specific ion exchangers which are designed to remove ions with a multiple positive charge.

Lenntech offers water softeners and related equipment for households, laboratories and industrial applications.

Water softener units are automatically regenerated with salt ( $\text{NaCl}$ ).

Brackish water softeners are also available using specific resins and regenerated with  $\text{HCl}$  and  $\text{NaOH}$ .

For servicing, repair or requests for water softener parts or hard water test kits, contact us

For all your questions on softening go to the water softener FAQ, a tutorial/manual for most frequently asked questions and answers on water softeners and their operation.

Testomat: Automatic hardness controller



## Fleck Softeners

- Water softening systems:
- Softeners
- Water softener FAQ
- Water-softener

54

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