

LENNTECH - Softeners

Water that contains calcium and magnesium ions is called 'hard water'. The calcium and magnesium ions can form scaling together with other ions. All Lenntech softeners are standard equipped with food grade ion exchange resins; this resin removes the hardness ions and replaces them with sodium. This process of removing hardness is reversible by regeneration, which is done with salt from the brine tank. During the regeneration the hardness is taken away from the resin and discharged to the drain.

The regeneration cycle of a Lenntech Softener:



- In use, the water is softened
- Backwash, loosening the resin and removal of polluting particle
- Brine wash, a salt solution is passed through the resin releasing the hardness, replacing it with sodium ions
- Slow rinse, salt is slowly discharged together with the hardness to the drain
- Fast rinse, flushing all remaining salt from the resin
- Back in use

The standard Lenntech softeners will be provided with Fleck control valves. There is a wide range of valves available, each with a specific flow or resin capacity.

The LT-compact series is a softener where all is included in one compact unit, incl. Brine tank. The Twin-en Duplex-series can provide 24hours-per-day softened water.



LT-compact series

Working of the control valve?

Timer option – Chrono:

Based on a calendar system and regenerates on a preset time. Ideal if the water consumption is constant or if a daily regeneration is required.

Volumetric option – Eco:

This system will only regenerate if a preset amount of water has been consumed. The system includes a water meter, which measures the amount of softened water, so that the regeneration and backwash water will not be seen as consumption.



Twin en Duplex – Always Eco option:

All twin en duplex systems are volumetrically controlled; if the preset value of water consumption is reached the system will switch over to the second column. At the same time the system will regenerate the first column, there will be no downtime for regeneration.

Iron removal: Lenntech can also provide a softener with an iron and hardness removal resin.

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