

WATER SOFTENING



AIR + WATER



FINESTFOG water softening

Fully automatic ion exchanger for industry and business.

Automotive

Printing

Painting and coating

Wood processing

Electronics

Textile production

Food processing

The FINESTFOG water softening unit is a compact, plug&play device. Mains water flows through a column filled with cationic exchange resin. Magnesium (Mg^{2+}) and calcium (Ca^{2+}) ions are exchanged for an equivalent number of sodium ions (Na^+). The softened water then contains proportionately more salt (sodium chloride) and scarcely any magnesium and calcium, both of which cause the problems, such as limescale, associated with hard water. Regeneration of the exchange resin takes place automatically using a brine solution made with salt from the salt container. In humidifier systems, softening the water with sodium ions stops limescale blocking the nozzles. In reverse osmosis systems, the water softening conditions the water upstream of the reverse osmosis unit.



Soft water without electricity

No electricity is required to operate a FINESTFOG water softening unit. The patented Kinetico regeneration head is controlled purely by water flow (photo above left) The salt level sensor registers low salt and indicates when the salt tablets need to be refilled (photo above right). Different water hardness disks are available, so that however hard the mains water it will be softened to 0°dH. Variable column size means that the FINESTFOG water softening units are scalable to handle almost any water volume.



(Photo 1)

Reliable, user-friendly and safe

Soft water the key to optimal quality.

Efficiency

All FINESTFOG water softening units incorporate two resin columns, with only one in operation at any time. This ensures uninterrupted operation, for instance, while one column is being regenerated. Regeneration is activated only when the efficacy of a resin column is impaired due to the load of undesirable ions. This reduces the amount of salt used and the volume of waste water. No electricity is required.

Reliability

An electronic “low salt” display (optional) indicates optically and acoustically when the supply of regenerating salt is low so that salt tablets can be added in good time. This ensures prompt regeneration of the exchange resin.

Compatibility

The ideal combination is a FINESTFOG water softening unit (Photo 1), a FINESTFOG water purification unit (Photo 2) and a humidification system (Photo 3). We also supply UV sterilization units and metering pumps as required. FINESTFOG systems condition mains water continuously and reliably so that the water always reaches the consumer application in the specified quality.



(Photo 2)



(Photo 3)

