

ION EXCHANGE UNIT



Process

This technology uses ion exchange polymers (resins) which, when in touch with a liquid containing dissolved salts (and therefore ions), capture certain ions and exchange them with other ones having the same electric charge.

There are two different resins:

Cationic for an exchange of positive ions;

Anionic for an exchange of negative ions.

Looking at the resins, they are small spheres, but their structure is spongy and inside them there are the ions available for the exchange. When the liquid to be treated goes through the resin, a contact is established between the dissolved ions in the liquid and the ions inside the resin and thus the exchange takes place.

Applications

The system is suitable for:

- pH correction
- Water softening
- Wines tartaric stabilization
- Acidity adjustment

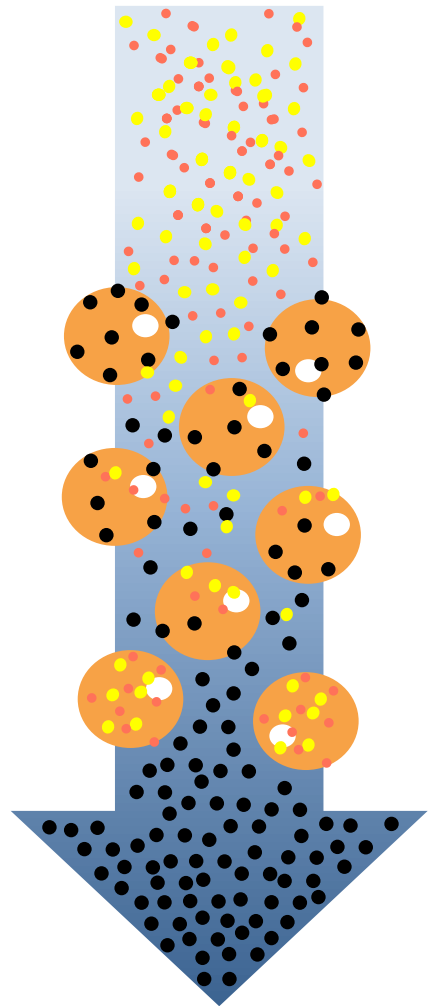
System highlights

Automatic and semiautomatic units are available.

Automatic unit has two separate hydraulic circuits that work alternately in a continuous cycle: one circuit is treating the product while the second one is regenerating the resins. The automatic exchange between the two circuits can operate on a time set, on pH value or on volume set.

The system is designed for the minimum consumption of regeneration product, much lower than systems on the market.

Semiautomatic unit is a not-continuous cycle and requires the operator to start on the regeneration step of the resins (at the end of working cycle).



Models

	KS30
Flow	3000 L/h
Water consumption	250 L/cycle
Power	0.55 kW
Dimensions	650x500x1700 mm
Weight	100 Kg



	KS60
Flow	6000 L/h
Water consumption	450 L/cycle
Power	0.9 kW
Dimensions	1200x1000x1750 mm
Weight	200 Kg

Models

	KA30
Flow	3000 L/h
Water consumption	250 L/cycle
Power	0.75 kW
Dimensions	2100x1200x1950 mm
Weight	500 Kg



	KA60
Flow	6000 L/h
Water consumption	450 L/cycle
Power	1.3 kW
Dimensions	2100x1200x1950 mm
Weight	750 Kg

Models

	KA90
Flow	9000 L/h
Water consumption	650 L/ciclo
Power	1.8 kW
Dimensions	2450x1300x2050 mm
Weight	1000 Kg



	KA120
Flow	12000 L/h
Water consumption	850 L/cycle
Power	2.4 kW
Dimensions	2900x1200x1950 mm
Weight	1200 Kg