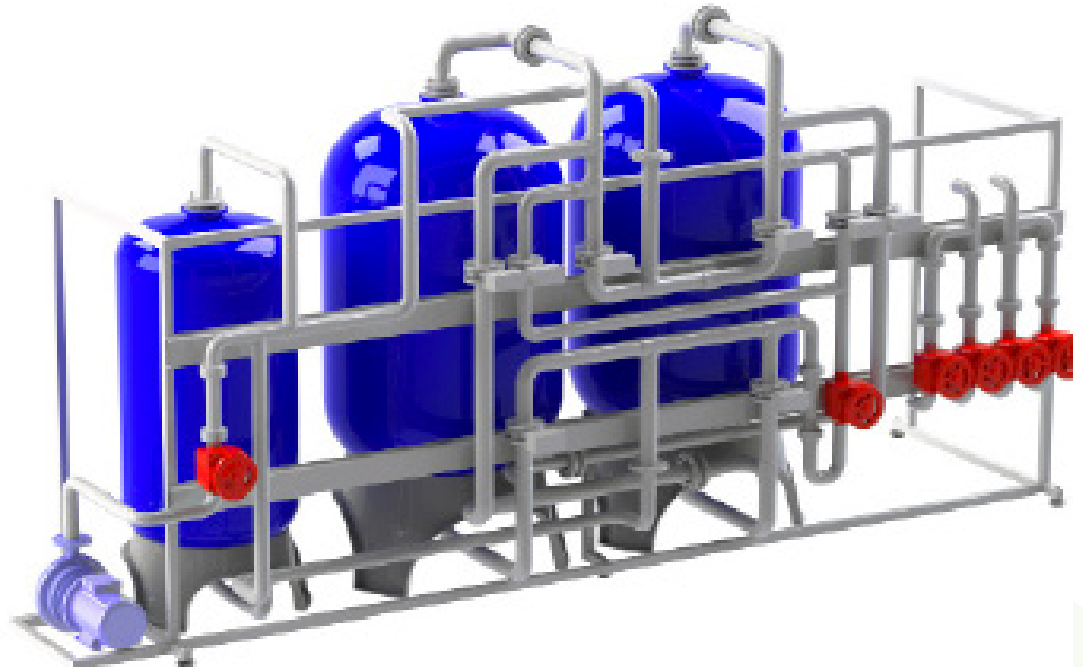


Ion exchanger

EnvoChange



Ion exchange technology is used to separate heavy metals. Examples of application fields: polishing metal-containing wastewater, purifying flue gas condensate, purifying water from wet scrubbers, polishing after ultra-filtration or chemical precipitation, purification of groundwater, mining water or leach water contaminated with metal.

General information about the function

The metal-containing water to be treated is led through filter columns filled with selective ion exchange mass. The ion exchange mass creates stronger bonds to heavy metals than to harmless ions such as sodium and calcium. And harmful heavy metals are exchanged in the water for sodium. When the ion exchange mass is saturated, it is regenerated with acid and lye. It is then ready for a new operating cycle. Vilokan's selective ion exchanger has been designed for capacities from 100 l/hr to 100 m³/hr.

The regeneration system can be made automatic or manual. Vilokan also offers service agreements which include regeneration. The filter columns are made by GAP with a polythene lining, or pressure vessel steel with internal hard rubberizing. The pipe work and valves are normally PVC. Multi-way valves are not used. Regeneration chemicals are dosed using dosage pumps or ejector pumps. Vilokan's systems are delivered completely pre-assembled and tested with any pre-treatment such as pH adjustment or pre-filtration.

EnvoChange ion exchanger

Type Capacity l/hr

Contact us regarding your capacity requirements

Examples of applications



Examples of application fields:

- Final polishing in water purification
- Polishing metal-containing water
- Purification of flue gas condensate
- Purification of water from wet scrubbers
- Polishing after ultra-filtration
- ...and many others