

Softeners and Demineralisers

RWO  VEOLIA



Hardness in water is caused by ions of calcium and magnesium, being of prime concern for many technical applications because of its scale forming tendencies.

Some water users onboard ships need softened water, e.g. hot water circuits, laundry water, galley water, boiler feed water, cooling water, dish washers, etc. Other users need even more, i.e. a higher degree of demineralisation than evaporators, reverse osmosis or softeners may provide.

All RWO ion-exchanger plants are producing water of the highest standards and are characterised by a chemical and water saving regeneration mode.

RWO softening and demineralisers unit can be used in connection with RWO Reverse Osmosis plants or with other process technologies.

Your key benefits

- > Skid-mounted units in a compact, marine suitable design
- > Reliable and operation safe equipment
- > Chemical saving effect
- > Creates longer maintenance interval
- > Increased lifetime of water-contacting equipment



WATER TECHNOLOGIES

Highest standards for various Requirements to your water treatment

Ion-Exchange Softening

If water containing calcium and magnesium passes through an ion exchanger, these ions are taken up by the resin, which simultaneously gives up sodium in exchange.

After the ability of the bed to produce soft-water has been exhausted, the unit is removed from service and regenerated with a solution of sodium chloride. This is removing the calcium and magnesium in the form of their soluble chlorides and at the same time restores the resin to its original sodium condition.

Water Demineralisation

A demineralisation plant is also a softener system but goes one step further than softeners by removing basically all dissolved ions from the water. The result is a fully demineralized water, low in conductivity and free of other impurities, such as silica and CO₂ - therefore suitable e.g. for ship turbines and other technical applications that require pure water.

RWO offers a variety of ion-exchanger systems, co-current cation-anion plants- and chemical saving co-current systems to suit all your specific needs.

