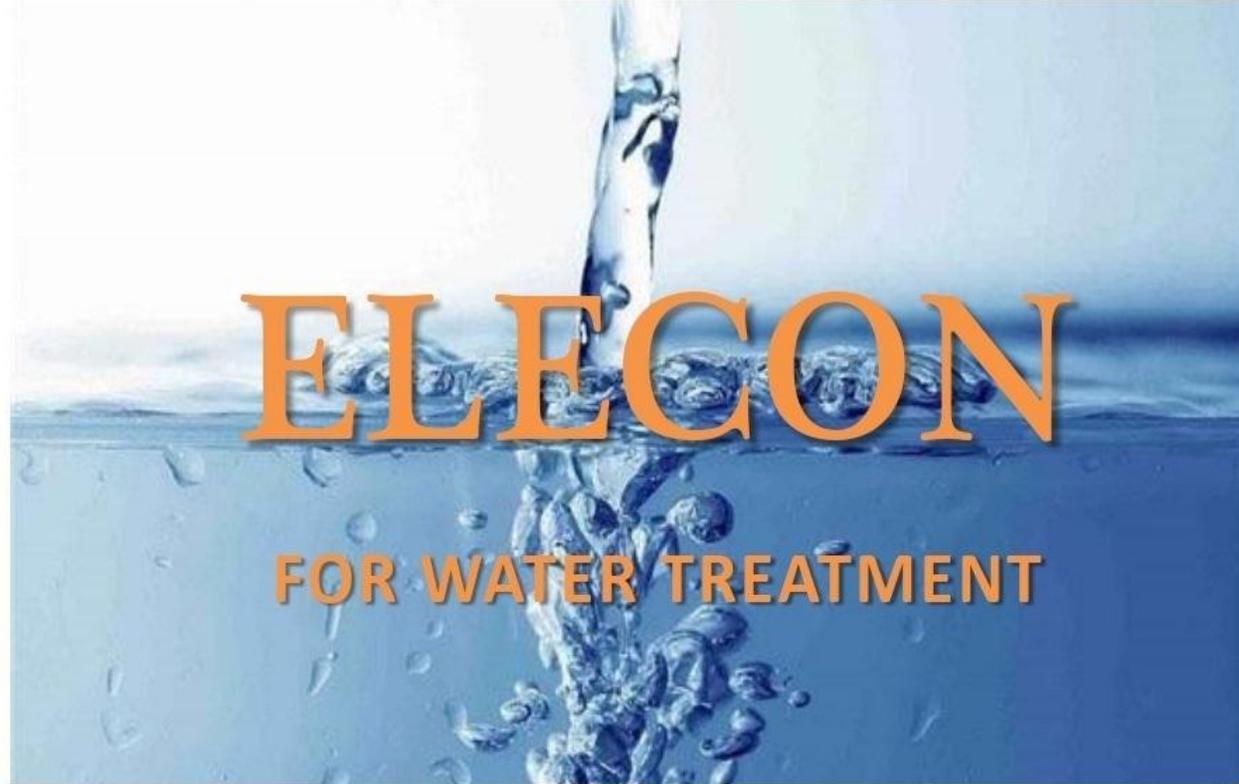




ELECON

For water treatment systems



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Pretreatment “Filtration”

Media



Gravel is an extremely effective filter media because of its ability to hold back precipitates containing impurities



sand filtration is used for the removal of suspended matter, as well as floating and sinkable particle



carbon removes impurities and contaminants through the chemical process of adsorption



resins are required to remove this hardness. Generally, ion exchange resins are used for the process



Brim is an efficient and economical media for the reduction of dissolved iron and manganese compounds from raw water supplies

vessels

Vessels come in all shapes, sizes, and configurations, and are used for a variety of purposes across the water treatment industry



Structure & Material

Thermoplastic & Fiber
Sizes: 8" to 63"

Heads

Manual



Auto



Chemical injection system



chlorination system

it is important to add sufficient chlorine to the water Chlorine inactivates a microorganism by damaging its cell membrane

antiscalant system

adding antiscalant to inhibit the formation and precipitation of crystalization mineral salts that from scale

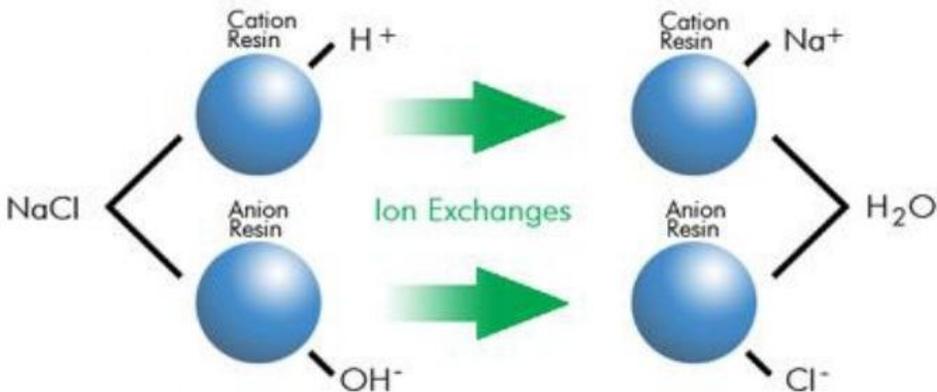
Dechlorination system

chemical injection of sodium metabisulfite are used to prevent oxidation usually caused by chlorine

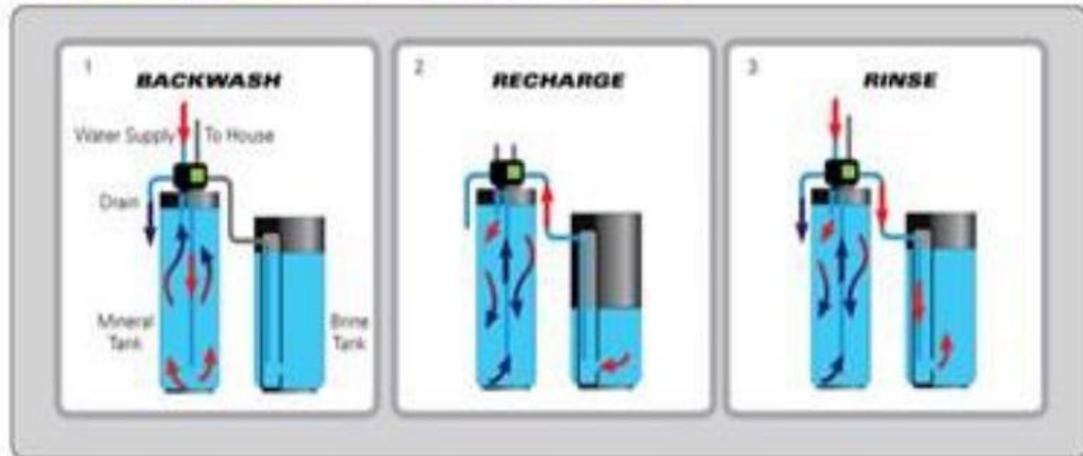


Ion Exchange

A water softener is a device that exchanges cation. What this essentially does is take the cation of calcium and magnesium (the two most common causes of hard water) and replace them with the cation of another substance. Most typically the ions are exchanged with ions from dissolved sodium chloride salt

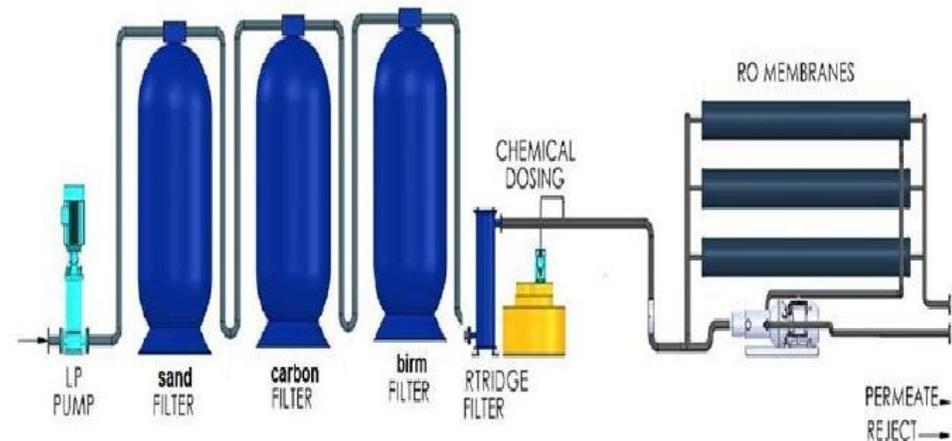


Water Softener Recycling



Ro station

Reverse osmosis (RO) is a water purification process that uses a partially permeable membrane to remove ions, unwanted molecules and larger particles from drinking water.

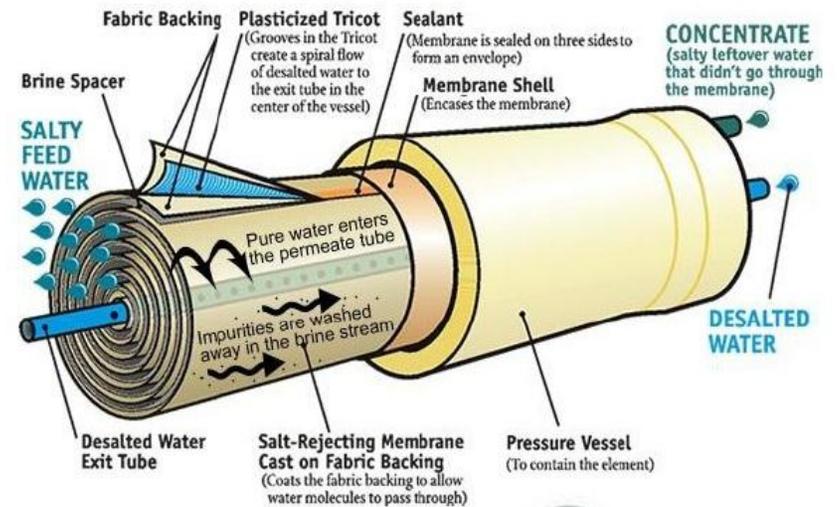


Membranes

In water treatment, membranes are barriers that allow water to pass through but stop unwanted substances from passing through with it. Working much like the cell walls in our bodies, technical membranes filter out salts, impurities, viruses, and other particles from water.



Reverse Osmosis Membrane Element inside a Pressure Vessel



Pressure vessel "Housing"

Pressure vessels are used to store and transmit liquids, vapors, and gases under pressure in general. The pressure of these fluids will exert pressure equally in all directions on the walls and ends of the pressure vessels. Because of the internal loading, stresses are induced on certain sections of the cylinder (pressure vessel) wall



UV & Accessories



ELECON



ACTIVITES

1-Design, supply and installation of drinking treatment plants for pharmaceutical companies, food companies, textile companies, dialysis units, hotels and tourist villages

2-Design, supply and installation of ion exchange units

3-Water treatment for boilers, cooling towers and chillers

4-Design, supply, installation and operation of sea water desalination plants and wells / high salinity levels

5-Supplying chemicals for the treatment of chiller, boilers and cooling towers

ELECON

For Water Treatment System

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فرع الجيزه : المنصوريه _ نكلا «طريق منشية القناطر»