



Aguapuro Equipments Pvt. Ltd.

WATER SOFTENING PLANT



Aguapuro Water Softeners use the proven technique of co-flow and counter current regeneration. Co-flow operates with regeneration flow in the same direction as service flow, and counter current involves the flow of brine used for regeneration and the flow of raw water during service, in opposite directions to each other. This ensures the residual hardness in treated water is always less than 5 ppm as CaCO_3 throughout the cycle.

Ion exchange resin in sodium form is used to exchange sodium ions with hardness forming calcium and magnesium, thus producing soft water. At the end the service cycle, the ion exchange resin is regenerated with salt solution to keep the unit ready for the next service cycle.

Specifications

- FRP or SS or MSEP/RL Pressure Vessels for Exchanger Unit
- Internal collection and distribution system
- Multi-port Control Valve or Individual Valve for easy operation
- Poly Styrene Di-Vinyl Benzene (Resin) for ion exchange in Na form
- Salt Tank in HDPE for double volume salt quantity
- Heavy duty UPVC/SS or Mild Steel Piping
- Test Kit to check raw and treated water hardness

Applications

- Boiler feed water use
- Textile Processing & Laundries
- Hospitals, Hotels, Resorts, Clubs, etc.
- Battery Water Top-up
- Beverage & Food Processing Units
- Pharmaceuticals Process Water
- Chemical & Bulk Drug Industry
- Electroplating & Mirror Silvering

Advantages

- Skid mounted, does not require civil work
- Pre-assembled and tested before shipment
- Can be installed and commissioned within a day
- FRP vessel/PVC piping make the unit corrosion resistant
- Reducing maintenance and related costs
- SS vessel & piping make the system corrosion resistant
- Easy availability of spares

Aguapuro offers these softeners with the pre-treatment of filtration systems to prevent the resin. Raw water feed pump is offered at an extra cost as a complete package.

- FRP Water Softeners are available from 6" dia onwards with a minimum flow rate of 200 LPH. The maximum capacity available is 100 M3/hr with 63" dia.
- Stainless Steel 304 or 316 Water Softeners are available from 200 mm dia onwards with a minimum flow rate of 500 LPH. The maximum capacity available is 150 M3/hr with 2000 mm dia.
- Mild Steel Epoxy coated or Rubber lined Softeners are available from 300 mm dia onwards with a minimum flow rate of 1000 LPH. The maximum capacity available is 500 M3/hr with dia of 3000 mm.
- Aguapuro uses ion exchange resins of Ion Exchange or Lanxess make for Water Softeners.
- Systems are provided with either Butterfly Valves or Multi Port Valves with automatic or manual version.
- Systems are provided with portable on site test kits to check water hardness. However, on-line hardness testing instruments are also available optionally.
- Water Softeners are also provided with pre-treatment of sand and carbon filtration with pump and electrical control panel available optionally.

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