

# Water Softening System

## Description

The water Softening system removes hardness causing salts (Ca<sup>+</sup> and MG<sup>+</sup>) from the water, thus removing hardness from the water. Hardness < 5 PPM as CaCO<sub>3</sub> is achieved at the outlet of the system. NaCl is used to regenerate the softener after the exhaustion of OBR. The use of a water softening system reduces the chances of scaling in further equipment. Extensively used in industrial, domestic, and pharmaceutical applications. The water softening system can be used standalone but it is better to provide Multi-Grade sand filter and activated carbon filter as a pretreatment to avoid fouling of resin.

## Specifications

One Vertical Cylindrical vessel with Hemispherical Ends (Dish Ends), inclusive of:

- One set of internal collection and distribution system
- One initial charge of Na<sup>+</sup> Resin as per process requirement
- Softener with Vessel MOC as FRP and operated through Manual/Auto Multiport Valve
- One set of Frontal Pipework and valves as per system design
- Two nos. of pressure gauges to calculate pressure drop across the softener
- Operating pressure of 2.5 to 3.5 bar
- One No. of Brine Measuring Tank
- One No. of Hardness Test Kit

H2O MSPL provides softeners in various sizes depending on feed water conditions and capacity.

## Salient Features

- Effective for reducing hardness
- Low maintenance costs
- Easy to operate
- Less wastage of water
- Feed water can be used for regenerating/  
rinsing the softener



## Applications

- The Water Softening system has vast applications due to its effectiveness and low maintenance costs. It is used to remove hardness in water, which prevents scaling in equipment
- The water softening system has domestic, industrial and pharmaceutical applications
- H2O MSPL provides Water Softening system in various sizes and metallurgy (FRP, MS-EP, MS-FRP, MS-RL, SS 304, SS 304L, SS 316) as per client and process needs.
- We do not recommended drinking of soft water

### Note

1. Depends on Feed water quality
2. Dosing of suitable coagulant will provide more effective filtration

## Some of our Standard Models

Name	Capacity (LPH)
WSU-0500F-M/A	500
WSU-1000-M/A	1000
WSU-2000-M/A	2000
WSU-3000-M/A	3000
WSU-5000-M/A	5000
WSU-7500-M/A	7500
WSU-10000-M/A	10000

### **H2O Management Services Pvt Ltd.**

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