

De Mineralization System

Description

De Mineralization system removes Dissolved Salt from the water. TDS < 10 PPM is achieved at the outlet of the system. De mineralization system consists of two segments, i.e. Strong Acid Cation (SAC) and Strong Base Anion (SBA). HCl is used to regenerate SAC and NaOH is used to regenerate SBA after exhaustion of OBR. Extensively used for Industrial and Pharmaceutical applications. De Mineralization system can be used standalone but it is better to provide Multi Grade sand filter and activated carbon filter as a pre-treatment 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 Resin for SAC and SBA as per process requirement
- One Set of Frontal Pipework and valves as per system design
- DM Plant (Cation + Anion) with Vessel MOC as FRP and operated through Manual/Auto Multiport Valve
- Two nos. of pressure gauges to calculate pressure drop across each vessel
- Operating pressure of 2.5 to 3.5 bar
- One Nos. of each Acid Measuring Tank and Caustic Dilution Tank
- One Nos. of Conductivity Indicator
- H2O MSPL provides De Mineralization Plants in various size's depending on feed water condition and capacity.



Salient Features

- Effective for reducing TDS
- Low maintenance costs
- Easy to operate
- Less wastage of water
- Feed water can be used for regenerating/ rinsing the De Mineralization System



Applications

- The De Mineralization system has vast applications due to its effectiveness and low maintenance costs
- The De Mineralization system has Industrial and Pharmaceutical applications
- H2O MSPL provides a 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 recommend drinking of De Mineralized 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)
DMU-0500F-M/A	500
DMU-1000-M/A	1000
DMU-2000-M/A	2000
DMU-3000-M/A	3000
DMU-5000-M/A	5000
DMU-7500-M/A	7500
DMU-10000-M/A	10000

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