

## Mixed Bed Unit

### Description

Mixed Bed Unit removes Dissolved Salts from the water. TDS < 1 PPM is achieved at the outlet of the system. The mixed Bed Unit consists Anion and Cation exchange both in the same unit, thus providing higher quality permeate at the outlet. HCl and NaOH are used to regenerate the Mixed Bed Unit after exhaustion of OBR. Extensively used for Industrial and Pharmaceutical applications. The mixed Bed Unit requires RO or De Mineralization system as pre-treatment.

### 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 Mixed Bed Unit as per process requirement
- One Set of Frontal Pipework and valves as per system design
- MB Unit with Vessel MOC as FRP and operated through Manual/ Auto Valve's
- Two nos. of pressure gauges to calculate pressure drop across system
- Operating pressure of 2.5 to 3.5 bar
- One No. of each Acid Measuring Tank and Caustic Dilution Tank
- One No. of Conductivity Indicator
- H2OMSPL provides Mixed Bed Unit in various sizes depending on feed water conditions 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 Mixed Bed Unit



## Applications

- The Mixed Bed Unit has vast applications due to its effectiveness and low maintenance costs
- The De Mineralization system has Industrial and Pharmaceutical applications
- H2O MSPL provides Mixed Bed Unit 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)
MBU-0500F-M/A	500
MBU-1000-M/A	1000
MBU-2000-M/A	2000
MBU-3000-M/A	3000
MBU-5000-M/A	5000
MBU-7500-M/A	7500
MBU-10000-M/A	10000

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

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