

# WATER DEMINERALISER

## **PORTABLE DEMINARISERS:-**

Ionex DM are two bed portable demineralisers Producing DM water free from dissolved solids less than 5 ppm and pH 7.5 to 8 up to 6500 Lit/Hr.

Ionex DM units are economical easy to install and simple to operate. Unit comprise of two PVC pressure vessels containing resins and internal fittings mounted on frame work with suitable valves; piping and conductivity indicator.

Ionex UDM unit comprise of two rubber lined mild steel pressure vessels containing resins, set of multiport valves, pipe work for operation, regeneration tank & conductivity indicator.



Technical Specifications :-				
Model	IDM-A	IDM-B	IDM-C	IDM-C
Max.Flow rate Lit/Hr	300	1000	2500	6500

## **MIXED BED DEMINERALISERS:**

Ionex MB units are single column portable demineralisers producing demineralised water, complying I.P. Specifications comprise of FRP/MSRL pressure vessel mounted on frame work containing bed of mixed resins, assembly of multiport valve & control panel with conductivity meter.

Ionex MB units have to be regenerated on the basis of increase in conductivity of treated water quality.

Technical Specifications:-

Model	IMB-I	IMB-II	IMB-III	IMB-IV	IMB-V	IMB-VI	IMB-500
Max.Flow rate Lit/hr.	100	200	600	1000	3000	6500	10000

Note-Above unit will give a treated water of conductivity below 0.1  $\mu\text{cmens}/\text{cm}^2$ , Silica below 0.05 PPM, pH 6.8 to 7.0. Model above RMBV -500 above up to 50  $\text{m}^3/\text{hr}$ . are of MSRL construction.

## **UPFLOW DEMINERALISERS:**

Ionex UDM are two bed demineralisers design on latest technique of counter flow regeneration to give output up to 15000 Lit/hr. material of construction for all this models is MSRL/FRP.

### Technical Specifications:-

Model	IUDM-200	IUDM-250	IUDM-300	IUDM-400	IUDM5-800	IUDM-600	IUDM-800
Max.Flow rate Lit/hr.	1.6	2.5	3.6	4.0	9.9	15.0	21.0

Model	IUDM-1000	IUDM-1200	IUDM-1400	IUDM-1600	Higher models are available As per requirement.
Max.Flow rate Lit/hr.	30.0	40.0	50.0	65.0	

### Operations:

- Raw water passes through cation exchanger where all cations are replaced by H<sup>+</sup> ion & Water becomes decationised resulting in a solution of weak and strong acids
- In next anion exchanger weak and strong acids removed.
- When capacities of exchangers are exhausted the resin are regenerated as the cation exchanger with acid and the anion exchanger with sodium hydroxide.
- The service, regeneration, fast/slow rinse & a backwash operation is carried out through a nest of valves or one single control Multiport Valve.



### Applications:-

- Pharmaceuticals.
- Fertilizers
- Petroleum
- Textiles
- Food Processing
- Electronics
- Breweries
- Hospitals
- Electroplating
- Automobile & Battery
- Boiler feed water

### Salient Features :-

- Produces treated water with low dissolved mineral content.
- Compact construction for low piping & accessories.
- Proven vessel internals & flow controls to ensure smooth filtration.
- Easy installation & operation.



**Green Circle Enviro Engineers.**

Fl.no-2, Ramkrishna Buildg.Near Ganesh mangal Hall, Saswad,Pune.  
Tel-8698069162 [greencenviro@gmail.com](mailto:greencenviro@gmail.com) [www.greencircle-enviro.in](http://www.greencircle-enviro.in)