

Water & Waste Solutions



DEMINERALISER

Cost effective
Demineralising

Solutions

DEMINERALISER



Introduction

- Demineralisation technology is the most proven & reliable process used in the water treatment industry. A properly packaged unit incorporates the principles of ion exchange, degassification & polishing to produce mineral free water. Demineralised water finds wide application in the field of steam, power, process & cooling.
- DM is technology that offers qualitative output to the user in terms of satisfying his specific needs. Thus to gain the maximum advantage it is necessary that the DM Plant is configured accurately.
- To ensure this and offer you the right solutions from our wide range of combinations, we have made available to our sales force a customised software. This software takes into consideration your inlet water quality and capacity requirements and offers you the most optimal & cost effective solution.

Operating Principle

The raw water passes through two beds filled with small polystyrene beads known as ion exchange resins. All cations like sodium, calcium, magnesium etc. are exchanged with hydrogen ions present in the resin group of the first bed called cation exchanger. Similarly all anions like chlorides, sulphates etc. are exchanged with hydroxyl ions present in the resin group of the second bed called anion exchanger. Degasser towers are used where presence of alkalinity is high.

Flow Diagram



Advantages

- Tulsion resins have high resistance to mechanical shock, longer life, high exchange capacity and low consumption of regenerants. The closely controlled resin bead size minimises pressure loss.
- Variety of cost effective standard models.
- Advanced selection software for optimal configuration.
- Improved aesthetics & rugged design.
- User-friendly, low maintenance & easy to install.
- Versatility in applications.
- Simpler distribution & collection systems.
- Pre despatch assembly check.
- Quick availability.

Technical Specifications

MODEL	CAPACITY	UNIQUE FEATURES
DFX	0.1 m ³ /hr - 14 m ³ /hr	FRP/ GRP range available upto 42" diameter.
EZ DU	3.5 m ³ /hr - 14 m ³ /hr	DM range in MSRL construction with single valve operation.
TDU	0.3 m ³ /hr - 50 m ³ /hr	Rugged packed bed DM in up-flow operation.
TDD	3.5 m ³ /hr - 70 m ³ /hr	DM range with flexibility in resin volumes.

- Note :
- 1) Degasser towers storage tanks & mixed bed units available for the above range.
 - 2) Semi-Automatic versions for the above range are also available.
 - 3) Customised Unit for capacity upto 200m³/hr in manual automatic version are available on requirement.
 - 4) Highlight capacity upto 200m³/hr Automatic / Manual Operation available on requirement.

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