MAKING WATER WORK FOR YOU

Applications


Food Processing


Automobiles


Boiler Feed


Chemicals


Commercial Applications


Cooling Towers


Distillery


Fertilisers


Food & Beverages


Hospitality


Hospitals


Paint Industry


Paper Industry


Petrochemical Industry


Poultry


Power Plants


Rubber Industry


Textile Industry


Tobacco Industry

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.

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THERMAX

Sustainable Solutions in Energy & Environment

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Thermax Business Portfolio

- Water & Waste Solutions
- Air Pollution Control
- Chemicals
- Boilers & Heaters
- Absorption Cooling
- Power

THERMAX

Water & Waste Solutions

DEMINERALISER

Cost effective
Demineralising Solutions

Improving your business is our business

Thermax offers products, systems and solutions in energy and environment engineering to industrial and commercial establishments around the world. Its business expertise covers heating, cooling, waste heat recovery, captive power, water treatment & recycling, air pollution control & waste management and performance chemicals.

Thermax brings to customers extensive experience in industrial applications and expertise through technology partnerships and strategic alliances.

Operating from its headquarters in Pune (Western India), Thermax has built an international sales & service network spread over South East Asia, Middle East, Africa, Russia, UK and US. It has full fledged ISO 9001:2000 and ISO 14000 accredited manufacturing setup.

Water & Waste Solutions Division

offers expertise in water management recycling. Its water and waste water treatment systems support power plants, oil & gas installations, fertilisers, petrochemicals and others. Its waste management systems serve health and hospitality sectors, townships and colonies.

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.

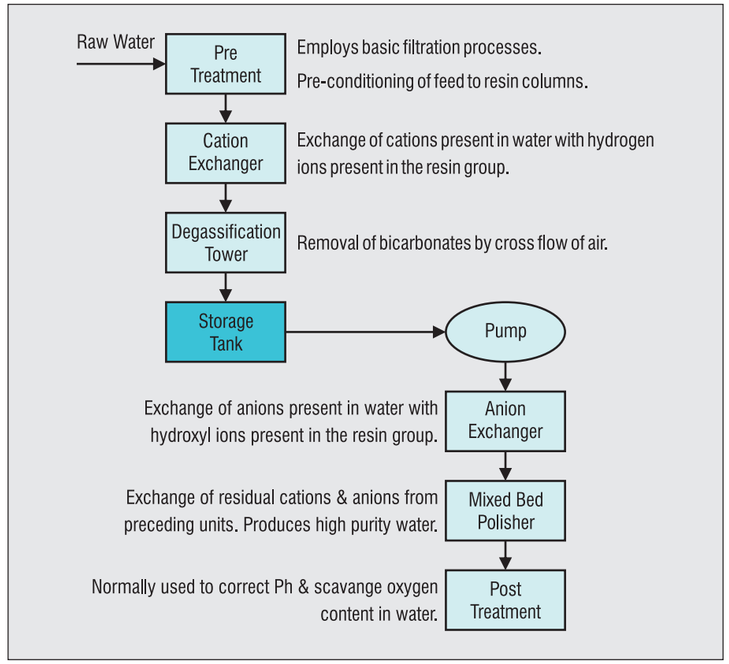
DM is technology that offers qualitative output to the user in terms of satisfying his specific needs. Thus to gain the maximum advantage it is necessary that the DM Plant is configured accurately.

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



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.

Degasser towers storage tanks & mixed bed units available for the above range. Semi-Automatic versions for the above range are also available.