

## Applications



Agri Products



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 with high resistance to mechanical shock, longer life, high exchange capacity and low consumption of salt. The closely controlled resin bead size minimizes pressure loss.
- User-friendly, low maintenance & easy to install.
- Variety of cost effective standard models.
- Improved aesthetics & rugged design.
- Simpler distribution & collection systems.
- Easily up-gradable for higher output.
- Easy operation & maintenance.
- Quick availability.



Sustainable Solutions in  
Energy & Environment

### WATER AND WASTE SOLUTIONS

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**International offices at**  
Indonesia, Russia, Kazakhstan, Saudi Arabia,  
Malaysia, Bangladesh, Sri Lanka, China,  
Thailand, UAE, Kenya, Nigeria, Brazil, UK, USA

### Thermax Business Portfolio

Water & Waste Solutions

Air Pollution Control

Chemicals

Boilers & Heaters

Absorption Cooling

Captive Power



THERMAX

## Water & Waste Solutions



# SOFTENER

Compact & Flexible  
Softening Systems

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.

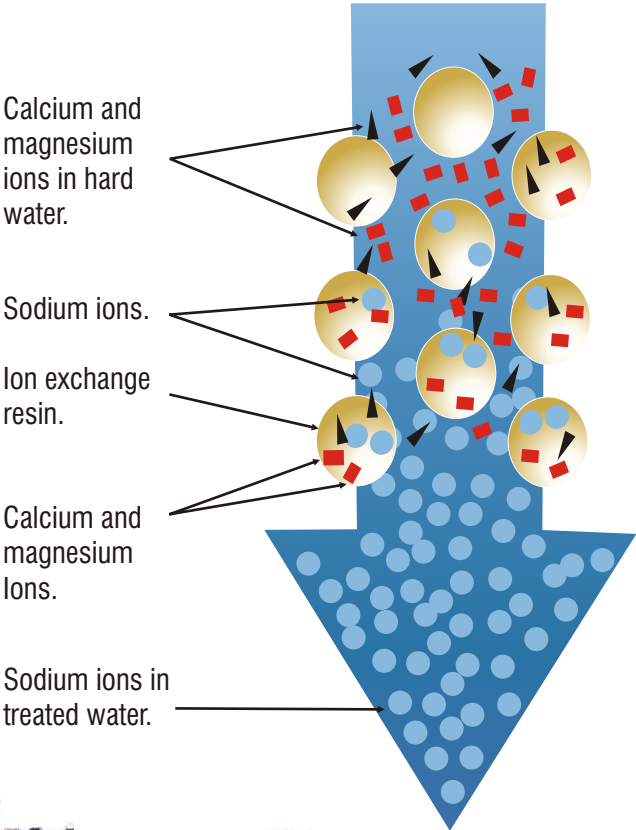
SOFTENER



Softening is a widely used Technology for reducing hardness forming ions (Ca & Mg) which precipitate & scale at very low temperatures & pressures. Softening is a reversible ion exchange process wherein the hardness forming ions are exchanged with sodium ions present in the resin group. Thermax offers a wide range of Softening plants with versatility in flow, flexibility in resin quantities & ease in operation. Thermax is one of the largest manufacturers of the strong acid cation resin used in this process.

Operating Principle

The raw water passes through a bed filled with small polystyrene beads known as ion exchange resins where sodium ions are exchanged for hardness forming ions. Once the resin beads are saturated with calcium and magnesium, the unit enters a regenerating cycle. The softener is regenerated with brine. Sodium in brine solution replaces the calcium & magnesium ions in the resin beads. Once the regeneration is over the softener is flushed of excess brine & taken back into operation.



Technical Specifications

MODEL	CAPACITY	UNIQUE FEATURES
US	0.1 m³/hr - 25 m³/hr	FRP/ GRP range available upto 42" diameter.
EZ	3.5 m³/hr - 35 m³/hr	Sleek Softener range in MS with single valve operation.
SU	0.3 m³/hr - 25 m³/hr	Rugged packed bed Softener in up-flow operation.
FLEXI	3.5 m³/hr - 230 m³/hr	Softener range with flexibility in resin volumes.

Semi-Automatic versions for the above range are also available.