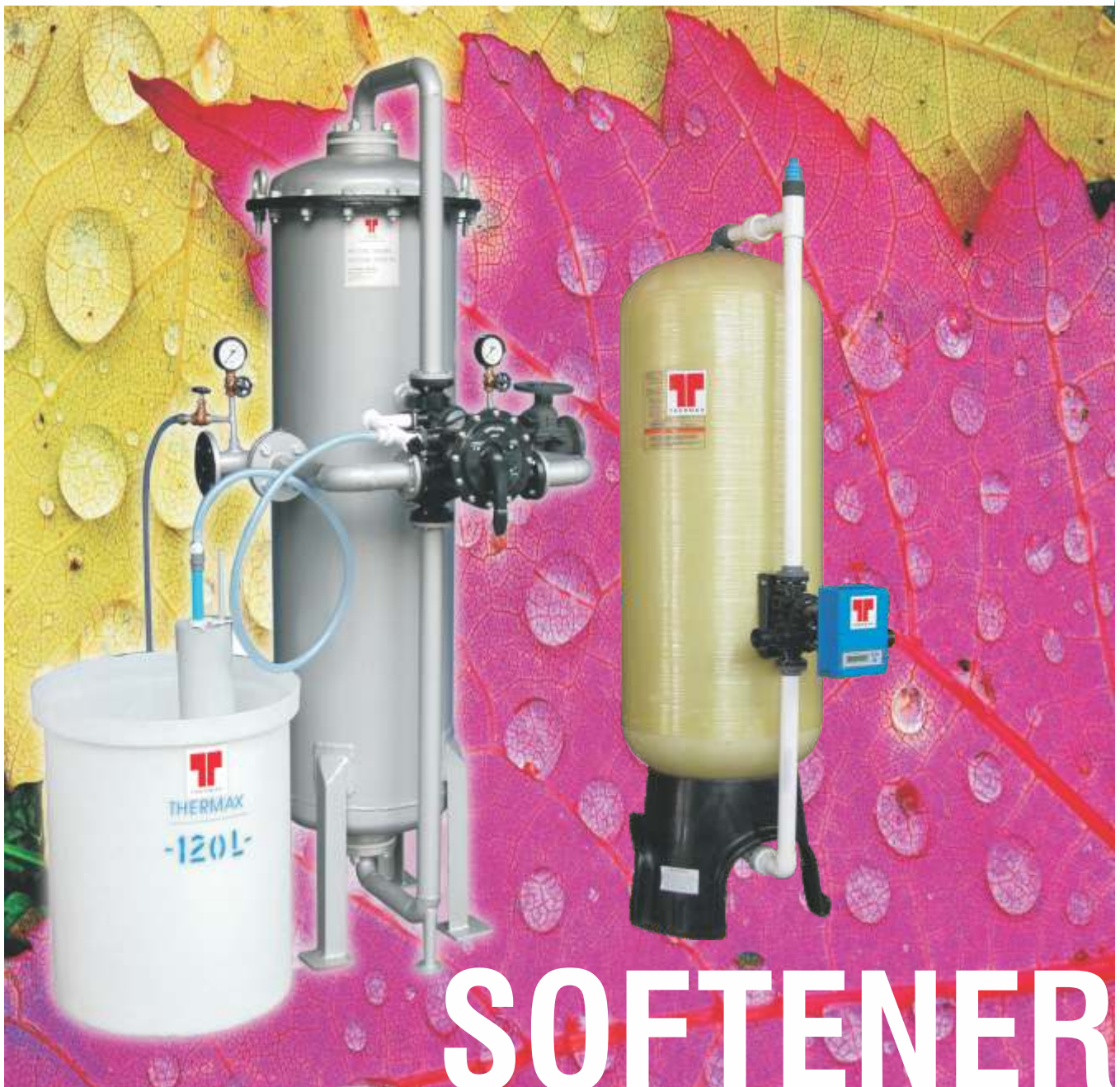


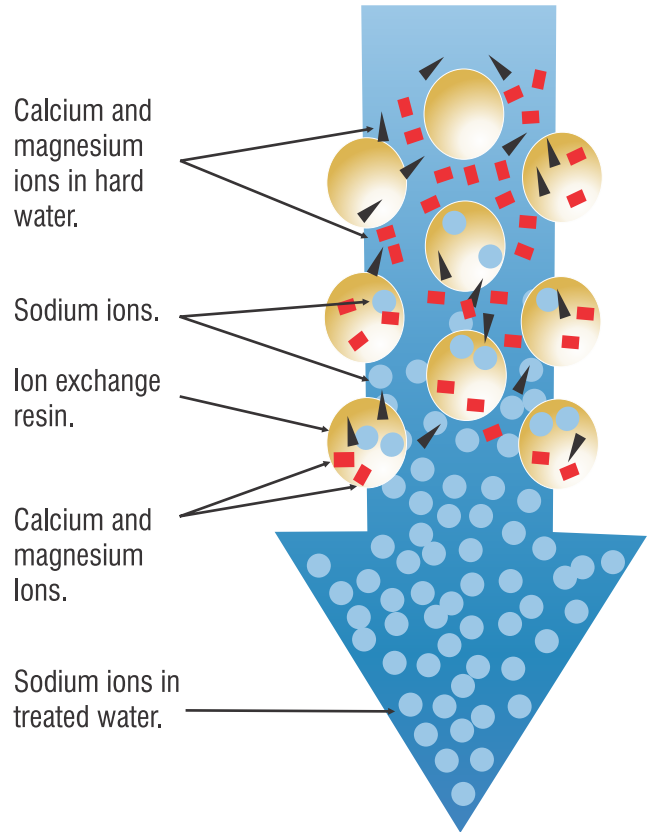
Water & Waste Solutions



SOFTENER

Compact & Flexible
Softening Systems

SOFTENER



Introduction

- 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 for Standard Unit

| MODEL | CAPACITY | UNIQUE FEATURES |
|-------|---|---|
| US | 0.1 m ³ /hr - 25 m ³ /hr | FRP/ GRP range available upto 42" diameter. |
| EZ | 3.5 m ³ /hr - 35 m ³ /hr | Sleek Softener range in MS with single valve operation. |
| SU | 0.3 m ³ /hr - 25 m ³ /hr | Rugged packed bed Softener in up-flow operation. |
| FLEXI | 3.5 m ³ /hr - 230 m ³ /hr | Softener range with flexibility in resin volumes. |

- Note :
- 1) Semi-Automatic versions for the above range are also available.
 - 2) Higher Capacity upto 500 m³/hr in automatic / manual operation available on request.



THERMAX
Sustainable Solutions in
Energy & Environment

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Thermax Business Portfolio

- Heating
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- Air Pollution Control
- Chemicals
- Solar
- Water and Wastewater Solutions
- Specialised Services