ION EXCHANGE
Refreshing the Planet

INDION® Packaged Upflow Softener

The INDION Upflow Softener incorporates the proven technique of counterflow regeneration, which produces treated water with low residual hardness throughout the cycle.
These softeners are specially designed to suit small and medium scale industries.
A strongly acidic cation exchange resin in sodium form is used to exchange sodium ions for hardness-forming calcium and magnesium, and thus produce soft water. At the end of each service cycle, the ion exchange resin is regenerated with sodium chloride solution, after which the unit is ready for the next service cycle.
The unit can be easily assembled and does not require any elaborate foundation. INDION packaged Upflow Softeners are available in a range of different sizes (see Technical Data).

Advantages

- Easy to install and simple operate
- Consistent treat water quality
- Low regeneration cost
- Low cost of maintenance
- Incorporates high-capacity, bead-type cation exchange resin which is highly stable and has a long life

Specifications

- One mild steel pressure vessel, complete with internal distribution and collection system, painted internally with anti-corrosive bitumastic paint and externally with a protective coat of red oxide primer
- One charge of ion exchange resin
- One plastic salt-saturation tank
- One set of frontal pipe work, complete with valves and hydraulic ejector
- One hardness test kit

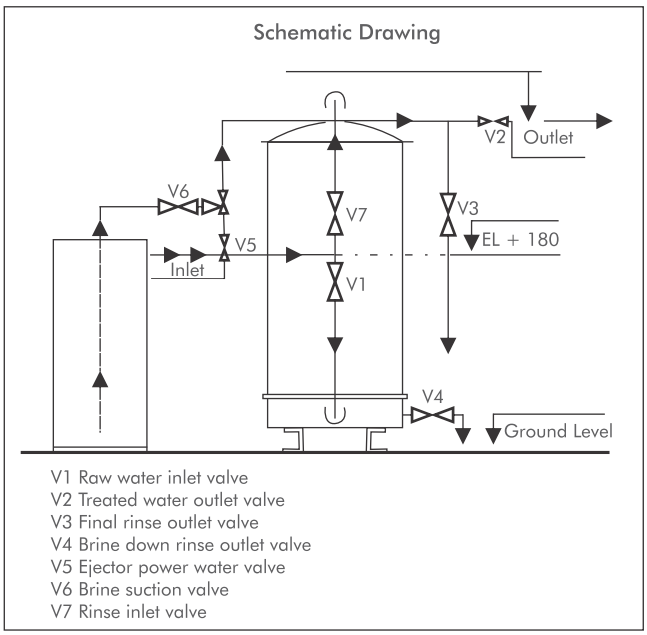
Application

- Boiler feed
- Textile processing
- Beverage production
- Cooling water make-up
- Hospitals, hotels, laundries and air-conditioning plants

Technical Data

Model	Flow Rates		Working Pressure		Output per Regeneration *@200 TH	Treated Water Hardness	Salt per Regeneration
	Min.	Max.	Min.	Max.			
	m^3/h	m^3/h	kg/cm^2g	kg/cm^2g	m^3	ppm $CaCO_3$	kg
S 600/U	1.9	13	1.7	3.5	103	<5	66.0
S 800/U	3.3	23	1.7	3.5	180	<5	117
S 1000/U	5.2	35	1.7	3.5	280	<5	184

*Based on feed water hardness of 200 ppm $CaCO_3$



Note:

1. Feed water should be free from turbidity, organic matter, heavy metals, free chlorine and oil and should be at ambient temperature.

2. Output between regenerations willy vary with influent water quality.

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