

BIS Range of Up flow softeners has the advantage of more consistent treated water quality, longer operating cycles and thereby lower cost of regeneration as compared with a conventional downflow softener.

BIS Range of the upflow softeners incorporates the proven technique of counterflow regeneration. The flow of water during service is upwards and the flow of brine solution during regeneration is downwards.

This technique ensures the layer of resin which come in contact with treatment flow last, are kept in a highly regenerated condition and thereby the treated water hardness is consistently low.

It is suggested to install a prefilter to the softener if the feed water contains suspended solids.

## Applications

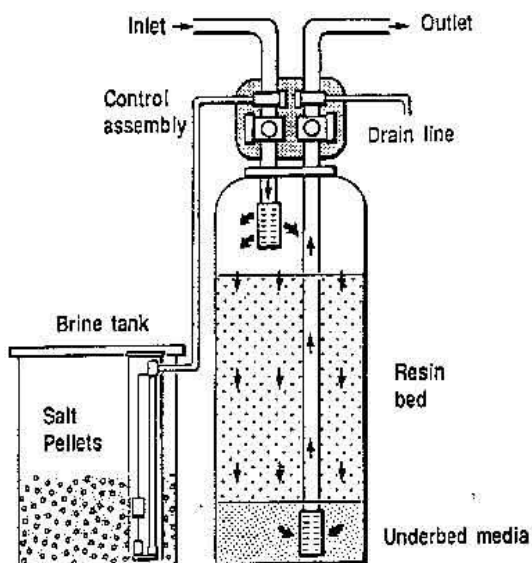
- . Boiler feed
- . Cooling water make up
- . Textile Processing, Brewery etc.

## Range

BIS Upflow softeners are available to match various capacities up to 1,00,000 ltrs/hr.

## Schedule of Materials

1. One mild steel pressure vessel with top design, scud, internal distribution & collecting system with a complete set of frontal pipework with valves and gauges.
2. One plastic salt tank with brine collector.
3. One charge of Softener resin.
4. One Hardness Test Kit.

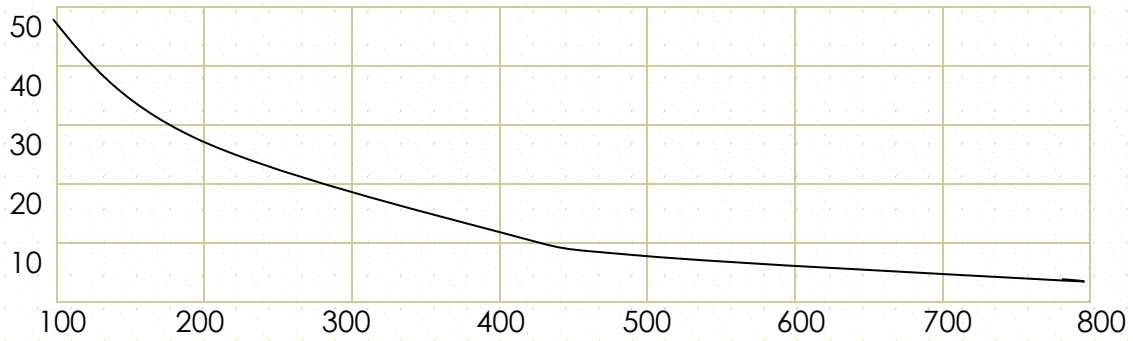


**B I S I N E E R**



**B I S I N E E R**

The Output per regeneration at different feed water hardness is show below;



Hardness in ppm as CaCO<sub>3</sub>

The curve is standardized for 100 Lt. Resin capacity Water Softening plant.

### Technical Data

Model No.	Resin Qty.(Lts.)	Max Wk Pr. (Kg/cm <sup>2</sup> )	MinWK Pr (Kg/cm <sup>2</sup> )	Output (M <sup>3</sup> / Regn.)	Max treat Row rate lts/hr.	Min treat flow ltr/hr.	Treated water Hardness in ppm as CaCO <sub>3</sub>	Salt Qty/Avg.
BIS 30	30	3.5	2.0	15	1800	200	<5	4.5 kg
BIS 50	50	3.5	2.0	25	2300	300	<5	7.5 kg
BIS 80	80	3.5	2.0	40	3500	500	<5	12 kg
BIS 120	120	3.5	2.0	60	5500	700	<5	18 kg
BIS 150	150	3.5	2.0	75	7500	900	<5	22.5 kg
BIS 200	200	3.5	2.0	100	9500	1200	<5	30 kg
BIS 250	250	3.5	2.0	125	11500	1500	<5	37.5 kg
BIS 300	300	3.5	2.0	150	14000	1800	<5	45 kg
BIS 350	350	3.5	2.0	175	16000	2000	<5	50 kg

Output per regeneration and max. treatment flowrate depends on feed water hardness. The above data is based on feed water hardness. of /00 ppm as CaCO<sub>3</sub>



#### Registered Works

**BISINEER ENG ( INDIA) P LTD.,**  
**No.5,29/1-B, Harinagar cross,**  
**Konanakunte, Bangalore- 560062**  
**Tel :+91-99000-83176**  
**Fax:+91-80-28436612**  
**Email: bisineerindia@bisineer.com**