

INDION®

New Generation Swift Softener (Short Cycle Softening Plant)

INDION New Generation Swift Softener (NGSS) is a softening system for the removal of scale-forming ions like calcium & magnesium from water. It has a shorter regeneration time suitable for short cycle operation.

Process

To remove scale-forming ions like calcium & magnesium from water, strong acid cation ion exchange resins are used to replace the scale-forming ions for softening water. After exhaustion, the strong acid cation resin is regenerated with brine solution (sodium chloride). This unit operates on a counter-current mode of regeneration. This technique provides high-quality soft water throughout the cycle.

INDION 2250 (in sodium form) is used to replace sodium ions for hardness forming calcium and magnesium, and thus produces soft water. At the end of each service cycle, the ion exchange resin is automatically regenerated with sodium chloride solution, after which the unit is ready for the next service cycle. Regeneration occurs based on the predefined time and Output Between Regeneration (OBR) cycle.

Advantages

- Lightweight and easy to install. Shorter regeneration time (30 mins)
- All units are assembled and tested in the factory before shipment
- All units can be installed and commissioned within a day
- Auto-operation
- Low maintenance



Features

- Automatic unit with multiport valve
- The valve can withstand pressure up to 5.5 kg/cm²
- Uses a special grade of monosphere resin
- Low wastewater volume
- The operating cycle can be as short as 3 hours
- Hardness tolerance up to 600 ppm
- Fiber-Reinforced Plastic (FRP) construction
- Seven models with flow rates, ranging from 3.5 m³/h to 20 m³/h are available

Technical Specifications

Model	Vessel		Max Flow Rate (m ³ /h)	Output Regeneration (600 ppm TH*) (m ³)	Resin (Litres)	Regeneration Time (Mins)
	Dia (Inch)	Hos (Inch)				
NGSS - 1	13	54	3.5	7.5	100	30
NGSS - 2	14	65	4.5	11	150	30
NGSS - 3	16	65	5.5	13	175	30
NGSS - 4	18	65	7.5	18.5	250	30
NGSS - 5	21	62	10	22.5	300	30
NGSS - 6	24	72	12	31.5	425	30
NGSS - 7	30	72	20	52.5	700	30

*Total Hardness

Treated water quality:

pH: 6.5-8.5

Total Hardness: 5 ppm as CaCO₃

Our state-of-the-art manufacturing facilities are ISO 9001, ISO 14001 & ISO 45001 certified.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.

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