ECOTREAT

WATER SOFTENER SYSTEM

Water Softener System

ECOTREAT series high performance water softeners are designed for residential, commercial and industrial applications. With state of the art control valves, our systems offer superior sediment loading, resulting in longer service runs and less frequent backwash andregeneration.

ECOTREAT water softener system is fabricated with a fully automatic control valve and standard vessel. Used in this water softener are vertical cylindrical design of fiber-glass reinforced polyester construction. All the water softeners are in line with international testing and certification agencies.

ECOTREAT water softeners are designed to remove hardness ions (calcium, magnesium) which are dissolved in the water in various water treatment application.

All water softeners are sized in accordance to optimum recommendation flux rates for optimum efficiency and performance.

How the ECOTREAT Water Softeners Works

Hard water contains calcium and magnesium ions. Water softeners use resin beads, which hold sodium ions. When hard water passes through the resin beads inside the softener, the beads attract and hold calcium and magnesium ions and give off sodium ions. After this process, the water leaving the softener is soft.

Salt water is used to wash the resin beads. The brine solution loosens the hardness ions, which have built up on the resin beads; then the system backwashes and flushes the hardness minerals away. Once again the system is ready to soften more water.

Advantages to Using Water Softeners

- Provides excellent Scale Prevention Pretreatment for Reverse Osmosis Systems
- Prevents Hard Water Scale
- Prevents Staining on Bathroom & Kitchen Fixtures as well as Dishes, Dishwasher, Washing Machine and Clothes
- Significantly Reduces Soap and Cleaning Product Consumption
- Reduces Water Heating Costs
- Prolongs Life of Reverse Osmosis Membranes, Water Heaters, Ice-makers, Dishwashers, Coffeemakers and Plumbing Fixtures

ECOTREAT
Automatic Control Head

The control valve utilizes a solid-state microprocessor for single or twin (duplex) tanks to regulate all cycles of filtration, media backwash, rinsing and regeneration. The valves allow options for backwash and regeneration frequency, and they indicate volume remaining, current flow rate, volume used (totalizer) and tank in service (in case of twin/duplex systems).

Control Features:

Made in USA
Front panel display
24 hour lithium battery backup with 8h carry over
Backwash and brining capability
Downflow regeneration
12V output AC adapter for safe installation

ECOTREAT FRP Vessel

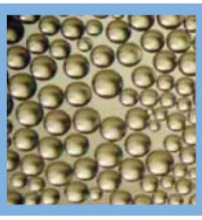
The composite pressure vessels combine the unrivalled toughness of a polyethylene inner tank and the strength of a glass fiber reinforced with epoxy resin wound on to a seamless composite liner for a durable and reliable tank that will not rust.

The tank is not only safe and non-toxic but also, its non-metallic construction makes them maintenance free.

Vessel Features:

For industrial & potable water treatment systems
Max operating pressure 10 bar
Max operating temperature 50˚C
Cycle test 250,000 times from 0.7 to 10 bar
Natural Color

ECOTREAT Filtering Media



The resin used in the ECOTREAT Water Softener is carefully selected of the finest grade to achieve maximum ion exchange efficiency at reasonable pressure drops

Water Softener Computation

WA MODEL	Tank Dimensions		Riser Size	Riser Size	Service Flow Rate	Backlash Flow Rate
	D(In) x	H(In)	(In)	(Ft^3)	(GPM)	(GPM)
ESOF-10	10	35 or 54	1	1.2	10	2.5
ESOF-13	13	54	1	2.5	15	5
ESOF-16	16	65	1	4	32	8
ESOF-18	18	65	1	5	45	10
ESOF-21	21	62	1 or 1.5	7	52	13
ESOF-24	24	72	1.5	10	76	19
ESOF-30	30	72	1.5	15	106	30
ESOF-36	36	72	2	20	160	40
ESOF-42	42	72	2 or 3	25	210	50
ESOF-48	48	72	3	35	275	70
ESOF-63	63	67 or 86	3	65	425	130