

## EDS SERIES

### Commercial Water Softeners



Hard water creates multiple maintenance & process problems in commercial applications. In manufacturing industries, scale deposits, created by hard water use, can be detrimental to the manufacturing process or have an effect even on the final product quality. Scale build-up also causes reduced efficiency of heaters and heat exchangers, boilers, sprayers etc.

Rainfresh commercial water softeners are designed to meet the demanding needs and specifications for all types of soft water applications.

Commercial softening systems vary from 30,000 grains to 1 million grains with flow rates up to 540 US GPM (122 m<sup>3</sup>/H). These ion exchange systems come with fully automatic control valves that set off the regeneration process based on time or water flow, depending upon specification.

The normal flow of water & brining is "down-flow" while backwash is "up-flow". The control valves are simple and reliable and available from 1" to 3" sizes.



### Applications

- Apartment & office buildings
- Long-term care facilities
- Hotels
- Boiler and cooling tower make-up water
- Restaurants
- RO/DI Pre-treatment
- Car washes for reduction of scale

### Control Valves

- ¾" to 3" valves in single tank and multi-tank configuration
- Fully adjustable, 5-cycle control delivers up-flow backwash, down-flow brining, slow rinse, rapid flow service
- Designed for single tank or multi-tank systems, alternating or interlocking
- Meter-delayed or Meter-immediate regeneration options
- Optional no-hard water bypass
- Component certified to NSF 61 & NSF/ANSI 372



2900 Valve

### Electronic Controller

The NXT Network Controller uses on-board communication capabilities to link multiple commercial valves (via CAT3 cables) (for use with specific valve models)



NXT controller

- 2x16 character backlit LCD display
- Networks up to four valves
- Easy installation with plug-in wiring harnesses
- Front panel diagnostics button
  - Flow rate
  - Peak flow rate
  - Totalizer
  - Hours between last two regenerations
- Easy time of day adjustment
- Five configurable cycle steps & three programming levels - User Mode, Master
  - Remote signal start can be used simultaneously with time clock, meter immediate, or
    - Hours since last regeneration
    - Adjustable volume remaining
    - Valve position
    - Software version
- meter delayed regeneration triggers
  - Allows monitoring of flow and volume information

## Resin

- High Capacity Gel resin
- Excellent Physical & Chemical Properties
- Excellent resistance to oxidation
- Component certified to NSF/ANSI 44

## Softener Tanks & Internals

- Seamless polyethylene liner wrapped with a continuous filament wound/epoxy resin fiberglass shell designed for 100 psig working pressures and temperatures of 120°F (49°C) – component certified to NSF 44/61
- PVC hub/lateral flow distributor and riser tube
- Corrosion resistant materials for long life
- Much lighter & easier to handle compared to steel tanks



EDS3672-2-2900-TA softener operating in Twin-alternating configuration using 3200NXT controller

## System Specifications

- Pressure: 30–100 psig
- Power: 24 Volts 50/60hz
- Temperature: 4 - 49°C (40–120°F)
- Turbidity: 1 NTU
- Free Chlorine < 1 PPM.
- Iron: 0.3 PPM max. Iron must be removed prior to the unit to reduce potential for resin fouling
- Manganese < 0.05 PPM.
- Hydrogen Sulphide – Nil
- Organics and oils - Nil



Twin-Alternating Softeners

## System Selection

EDS	36	72	2	3900	TA	4872
	↑	↑	↑	↑	↑	↑
	Media Tank Dia	Media Tank Height	Valve Size	Valve Type	Type	Brine Tank Size
	9"	45"	¾"	2510	TA = Twin	Dia x H
	10"	48"	1"	2750	Alternating	21" x 36"
	12"	52"	1.5"	2815	D = Duplex	30" x 48"
	14"	65"	2"	2850	T = Triplex	36" x 48"
	16"	69"	2.5"	2850S		42" x 48"
	21"	72"	3"	2900S		48" x 48"
	24"			3150		
	30"			3900		
	36"			9000		
				9100		
				9500		

## Warranty

One year warranty against defects in materials, workmanship & corrosion. 5 year warranty on tanks

## About Envirogard

For over 50 years, Envirogard has been leading the water treatment industry in Canada by providing high quality products and solutions at affordable prices. "Rainfresh" products are used by homeowners & commercial facilities across Canada and in over 40 countries worldwide.



## Envirogard Products Limited

446 Major Mackenzie Drive East,  
Richmond Hill, ON L4C 1J2, Canada

Tel: (905) 884 9388; E-Mail: [commercial@rainfresh.ca](mailto:commercial@rainfresh.ca) ;

Web: [www.rainfresh.ca](http://www.rainfresh.ca)