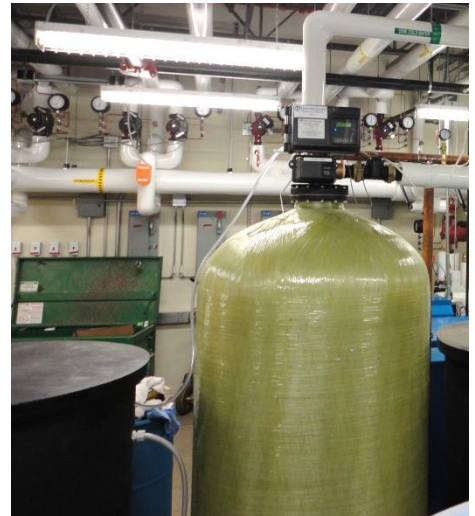


Hard water creates multiple maintenance & process problems in commercial applications. In manufacturing industries, scale deposits, created by hard water use, can be detrimental to the manufacturing process or have an effect even on the final product quality. Scale build-up also causes reduced efficiency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

Envirogard's 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.



### Control Valves



2900 Valve

- Fully adjustable, 5-cycle control delivers upflow backwash, downflow brining, slow rinse, rapid rinse and down flow service
- Designed for single tank or multi-tank systems, alternating or interlocking
- Continuous flow rate of up to 250 GPM
- Protective UV-stable, water and corrosion resistant NEMA 3R enclosure
- Choice of 7 or 12 day clock or meter initiated regeneration
- Valve body constructed of lead-free brass
- Regeneration by actual countdown of water usage or time-clock
- Fully programmable individual cycles
- Meter-delayed or Meter-immediate regeneration options
- Optional no-hard water bypass
- Component certified to NSF 61 & NSF/ANSI 372

### Electronic Controller

The 3200NXT Network Controller uses on-board communication capabilities to link multiple commercial valves (via CAT3 cables)



3200NXT 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
  - Hours since last regeneration
  - Adjustable volume remaining
  - Valve position
  - Software version
- Easy time of day adjustment
- Five configurable cycle steps & three programming levels - User Mode, Master Programming, Diagnostics Mode
- Remote signal start can be used simultaneously with time clock, meter immediate, or 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 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

## Applications and Benefits

- 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

## System Specifications

- Pressure: 30–100 psig
- Power: 24 Volts 50/60hz
- Temperature: 4 - 49°C (40–120°F)
- Turbidity: 1 NTU. Water must be pre-filtered if turbidity exceeds 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            |
|----------------------------|----------------|-------------------|------------|------------|-------------|-----------------|
| ↑                          | ↑              | ↑                 | ↑          | ↑          | ↑           | ↑               |
| ENVIROGARD DEMAND SOFTENER | Media Tank Dia | Media Tank Height | Valve Size | Valve Type | Type        | Brine Tank Size |
|                            | 9"             | 45"               | ¾"         | 2510       | TA = Twin   | Dia x H         |
|                            | 10"            | 45"               | 1"         | 2750       | Alternating | 21" x 36"       |
|                            | 12"            | 48"               | 1.5"       | 2850       | D = Duplex  | 30" x 48"       |
|                            | 14"            | 52"               | 2"         | 2850S      | T = Triplex | 36" x 48"       |
|                            | 16"            | 65"               | 2.5"       | 2900S      |             | 42" x 48"       |
|                            | 21"            | 69"               | 3"         | 3150       |             | 48" x 48"       |
|                            | 24"            | 72"               |            | 3900       |             |                 |
|                            | 30"            |                   |            | 9000       |             |                 |
|                            | 36"            |                   |            | 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 Helpline: 1.800.667.8072 ; Fax: (905) 884 3532

E-Mail: info@rainfresh.ca ; Web: www.rainfresh.ca