

# SSZ Sodium Cycle Water Softeners

# CROWN SOLUTIONS

Crown Solutions provides custom-designed softeners for use in boiler rooms, hospitals, industrial plants, RO pretreatment equipment and other installations.

For more than 20 years, Crown Solutions has provided water solutions including water management, custom-engineered equipment, water treatment chemicals and service.

The SSZ Sodium Cycle Water Softeners are fully assembled and factory tested for efficient installation. Softener regeneration can be initiated automatically, plus a number of options are available to meet almost any requirement.

## Benefits that Make a Difference

- > Engineered hub/radial and header/lateral internal underdrain for equalized distribution.
- > Inlet and outlet sample valve and pressure gauge to monitor the performance of the unit.
- > Pressure compensating backwash flow controller ensures proper backwash flow rates with varying backwash water pressures.
- > Vessels are coated with epoxy, inside and out, for corrosion resistance and long service life.
- > Systems are delivered fully assembled and factory tested to minimize installation costs and enable easy start-up.
- > Programmable Logic Control (PLC) for higher reliability and greater flexibility.



This heavy duty industrial softener is custom designed for severe plant environments. It features stainless steel piping, PVC vessel internals, plus resilient seated butterfly valves with position switches and high visibility position indicators. Units are individually skidded with positioning pins for easy installation.

## Options

- > ASME code tanks
- > Online hardness monitor, flow meters and other instrumentation
- > Skid mounting
- > IntelliFlow™ Programmable Logic Control (PLC) program for regulating flow through multiple vessel systems
- > Brine reclaim capability
- > PVC galvanized or stainless steel face piping
- > Bulk salt storage and brine-making system

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## HEAVY DUTY INDUSTRIAL SOFTENER

This unit is custom designed for severe plant environments and is an example of how Crown Solutions can accommodate your need to incorporate plant standard components or configurations. It features stainless steel piping and PVC vessel internals. Valves include stainless butterfly valves and 3-piece ball valves with air actuators. Units are individually skidded with positioning pins for easy installation. Includes proximity switches and position indicators, control is via a remote PLC, and vessels are code stamped for 150 psi service. Remote I/O is included on each vessel for easy installation and maintenance. The unit is fully instrumented with pressure and flow transducers at all critical points.



## INDUSTRIAL WATER SOFTENER

This unit is typical of our industrial product line and features schedule 80 PVC piping and air operated butterfly valves. Control is supplied via an industrial PLC, which is mounted on the unit. Tanks and piping systems are rated for 100 psi service.

## BULK BRINER

Crown Solutions offers bulk salt storage and brine making systems for softening applications that consume large quantities of salt. These systems allow you to purchase salt at a lower bulk rate and eliminate the labor required to move salt and the associated potential for employee injury. The units are available with dry bulk salt capacities of up to 63,000 pounds and are constructed of FRP. The brine making section at the bottom is electrically heat traced and insulated, and dust control systems are standard.

Crown Solutions can supply numerous types of level controls and pumps for transferring the brine to your softener system.



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