Commercial Series

COMMERCIAL HEAVY DUTY WATER SYSTEMS WITH UNIVERSAL CONTROLLER



Clean water. Green future.™



ECONOMICAL, HEAVY DUTY WATER CONDITIONING FOR STEAM BOILER, HOSPITAL, HOTELS, RESTAURANTS, AND OTHER INDUSTRIAL AND COMMERCIAL APPLICATIONS

Hard water can be hard on your business

When you run a business that uses a lot of water, it's important to have the hard facts: Hard minerals in water cost industry millions of dollars annually in maintenance plus the premature replacement of equipment.



Why is hard water such a problem? Because it contains minerals that can build up in pipes and equipment. The resulting rock-like scale restricts water flow and clogs valves and vents. Hard water scale on water heaters and boilers

reduces heat transfer, frequently causing premature burnout. In addition, the particles in the water can cause excessive wear on valve seats which leads to dripping faucets and staining of fixtures.

Conditioned water saves on energy and supplies, cuts maintenance costs and satisfies your customers

With all the problems hard water can cause, it's easy to see how you can save money and resources by conditioning your water. You'll save on energy, plumbing repairs and general maintenance. You can extend the life of linens, fixtures and appliances. You will also save on chemicals, detergents, coffee, and beverages made from concentrate.

What's really impressive is the amount of savings you'll see. Soft water is less expensive to heat. Gas water heaters use 22% fewer BTUs of energy when heating soft water. Electric water heaters use 18% less BTUs. Soft water helps eliminate soap scum and reduce hard water deposits so less scrubbing is required, which saves on labor and reduces wear on fixtures, porcelain and tile.







Customers who use soft water for cleaning and bathing use less detergent, soap, and shampoo which results in softer, smoother skin and hair. Restaurants that use conditioned water have better tasting food and beverages, fewer spotted glasses, and easier-to-clean facilities.

The advantage of soft water for steam boiler pretreatment

One of the most common water softener applications is for softening the supply water to steam boilers. Most industrial and many commercial establishments require steam. Steam is used in textile mills to produce, form and dye fabrics. Dry cleaners use steam to iron linens. Canneries and meat packers cook or process foods with steam. Bakeries prepare bread with steam. Breweries use it to make beer. Boilers are used frequently for heating water in hotels, hospitals, laundries, and large buildings. It drives many of the turbines that produce electrical power. As a general rule, the larger the factory or industrial operation, the more apt we are to find one or more steam boilers in operation at that facility.

All in all, the savings and customer satisfaction benefits are substantial. Which means your EcoWater System pays for itself in a short time, and you can improve your service, products, and bottom line. Adjustable Backwash. The backwash is the final counter-current rinse. It thoroughly rinses the brine solution out of the resin bed. The length of the backwash is adjusted based on an initial water analysis.

The Fast Rinse. The final regeneration step, the fast rinse, is a quick, downward rinse that packs the resin and underbedding, preparing the system for the service cycle.

Performance-proven features that set the Commercial Series apart

The true test of even the most advanced water conditioning system is how well it softens and filters water. We've made some major improvements over previous models – and competitive ones – that help you conserve salt and water yet still get the cleanest, softest water possible.

High Performance Resin. EcoWater uses only FDA-approved resin* in every commercial softener. High Performance Resin conditions your water more effectively and lasts longer than the resin you'll find in some other systems.

* Resin meets U.S. FDA Standard No. 21CFR173.2500.

Washed Quartz Underbedding. Some manufacturers use gravel underbedding that actually imparts hardness into the water. Others use no underbedding at all. EcoWater's Washed Quartz Underbedding imparts no impurities and helps distribute both water and recharge brine more evenly across the tank.

Six-Cycle Valve. Competitive valves commonly contain up to 85 components. The patented Six-Cycle Double Disc Valve has fewer than 25, so it requires less service.

Turbine Flow Meter. The primary information used by



the EcoWater electronic demand control is from the turbine flow sensor. The accuracy of the turbine meter is so precise that it will detect a flow rate as low as 1/5 of a gallon per minute on the 1" valve systems. The sensor and non-corrosive materials used in the turbine provide for long-term reliability.

Other Features. Other features include a Soft Water Fill to the salt tank to keep it free from the effects of hard water; an automatic bypass that provides water during regeneration; and high-service flow rate and backwash flow rate capacity hardware.



2" ECO FLOW-PACK VALVE – ANOTHER ECOWATER INNOVATION

- Snap Clamp Rings for Ease of Connecting
- Screened Top Distributor
- 8 Brine Make-Up Flow Control
- Pin Quick Disconnect Injector Housing
- 2" NPT Union Connections

- 6 Adjustable Backwash Flow Control
- Full 2" Ported Flow Passage in Plastic Valve Housing
- 8 High Torque 24 V-DC Motor
- Valve Tank Adaptor Allows Easy Access into Tank with Clamp Ring Connector
- High-strength, corrosionresistant piston

THE COMMERCIAL, HEAVY DUTY WATER SYSTEM

High-Density Salt Storage Tank

High-density polyethylene withstands impact and retains shape even when full of salt.

Econo-Brine System

Uses precise amount of salt and water for regeneration. Eliminates need for troublesome salt platform, helps eliminate salt bridging, and conserves salt.

Positive Action Brine Valve

Positive action helps prevent overfilling. Also eliminates air draw during slow rinse cycle.

Electronic Demand Control Module

Electronic demand module records usage patterns and controls regeneration frequency based on predicted needs.

Six-Cycle Valve with

Easy-Clamp Ring No metallic parts come in contact with water, so there's less chance of rust and corrosion. Available in 1" Double Disc or 2" Eco Flow-Pack styles





High-Performance Resin

FDA-approved resin provides superior softening capacity.

Washed Quartz Underbedding

Washed quartz doesn't impart hardness into softened water and allows for more powerful countercurrent regeneration.

Turbine Flow Meter

A meter made of non-corrosive materials that measures flow rates. Detects rates as low as 1/5 gallon per minute on 1"



electronic demand systems.

24-Volt Transformer

Low voltage transformer eliminates special wiring, allowing versatile placement of system.



The EcoWater Commercial Series Heavy Duty Water Systems. These new systems use sophisticated solidstate electronics and our patented EcoGizer Regeneration Process to provide conditioned water for any commercial application. It's our most advanced commercial series ever, designed to provide clean, clear, refined water at a cost that fits your budget.

HIGHLY EFFECTIVE TECHNOLOGY – THE KEY TO BETTER WATER AT A BETTER PRICE

Every business uses water differently. That's why the flexibility of our new Commercial Series is so important. This system is one of the best in its class at conserving water and salt during the regeneration process and it's designed to match your specific usage requirements – today and tomorrow.

Electronic demand: The conditioned water you need, precisely when you need it

The Commercial Series uses solid-state electronics with a built-in memory that tracks and records usage for each day of the week. Using this information and the exclusive EcoWater System Algorithm, it calculates the amount of water you'll need for the following day. After reviewing the capacity left in the unit, it determines whether or not to regenerate.

Smart memory. Your EcoWater System knows which days you use the most water and plans accordingly. The system also adjusts to changes in your water usage pattern, so it will regenerate early if needed yet won't waste water and salt by regenerating unnecessarily.

Saves you money, conserves water and salt.

Competitive systems that regenerate more often than necessary waste water, salt, and wear out the system components earlier. All of which makes them more expensive to operate. With the Commercial Series, you use only what you need, only when you need it.





Dependable, reliable, solid-state controls

With solid-state electronics, you get the most effective technology available for managing your water system. It's more accurate than systems with knobs or mechanical dials. And there are no moving parts to wear out, so maintenance is minimal.

The LCD panel clearly displays time, flow rates, regeneration time, hardness setting, whether the unit will recharge in the next 24 hours, and other helpful information. It also shows you precisely how much capacity is left in the system. Because the panel is easy to read and understand, user options can be set at the touch of a button.

The programmed memory is permanent and not affected by interruptions such as a power outage. The timer has a reserve power supply called a Super Cap[®] II capacitor. This rechargeable device provides backup power for more than 48 hours. If the power returns before 48 hours, the unit continues to operate normally. If the outage lasts longer, you simply reset the clock after power is restored.

For customers who prefer a system that regenerates regularly instead of only when necessary, a fixed maximum number of days between regenerations can be programmed into the control module.

THE ECOWATER ECOGIZER REGENERATION PROCESS MAKES THE ECOWATER COMMERCIAL SERIES BEST IN THE INDUSTRY

Taking your water system to a new level

Not all water conditioners work the same way. Subtle changes in the process can have a big effect on the quality of your water. Here are some of the key features you'll find only with the EcoWater EcoGizer Regeneration Process.

Dynamic Brine-Making System. The precise volume of conditioned water is added to the salt tank to make up the amount of brine needed to restore the system to full capacity. The dynamic action of water flowing through the salt develops the ideal saturation level for proper recharging of the resin. The dry salt storage method eliminates the need for a salt platform, helps prevent salt bridging and conserves salt.

Counter-Current Brining. The softener starts regenerating the resin bed from the bottom of the tank up, rather than from the top down. The brine solution spreads through the quartz

underbedding and pushes up with a piston action, lifting the hardness up and out of the tank. This is a critical difference, because downward regeneration – common in other systems – removes hardness from the top of the bed, where it's most prevalent, and deposits it in the cleaner resin below. This previously clean resin must now be regenerated, which uses more salt and water.



EcoWater Commercial Series Water Systems Limited Warranty

EcoWater Systems LLC guarantees to the original owner:

- 1. for ten (10) years, the fiberglass pressure tank will not rust, corrode, leak, burst, or in any other manner fail to perform its proper function (moisture barrier is not guaranteed); and that
- 2. for a period of three (3) years after installation, the salt tank will not rust, corrode, leak, burst, or in any other manner fail to perform its proper function; and that
- 3. for a period of three (3) years, the electronic faceplate will be free from defects in material and workmanship; and that

4. for a period of one (1) year after installation, all other parts will be free from defects in material and workmanship.

If during such respective periods, a part proves to be defective upon inspection by EcoWater, EcoWater will, at its sole option, either repair or replace the part without charge except for normal shipping and installation charges.

GENERAL PROVISIONS

The above guarantees are effective provided the water conditioner is operated at water pressures not exceeding 125 psi, and at water temperatures not exceeding 100°F; and provided the tanks are not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided the tanks are not damaged as a result of any unusual force such as, but not limited to, flood, hurricane, tornado, or earthquake. EcoWater Systems LLC is excused if failure to perform its warranty obligations is the result of strikes, government regulations, materials shortages, or other circumstances beyond its control.

To obtain warranty service, notice must be given, within thirty (30) days of the discovery of the defect, to your local EcoWater Systems dealer.

THERE ARE NO WARRANTIES ON THE WATER CONDITIONER BEYOND THOSE SPECIFICALLY DESCRIBED ABOVE. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED TO THE EXTENT THEY MIGHT EXTEND BEYOND THE ABOVE PERIODS. THE SOLE OBLIGATION OF ECOWATER SYSTEMS LLC UNDER THESE WARRANTIES IS TO REPLACE OR REPAIR THE COMPONENT OR PART WHICH PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD, AND ECOWATER IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. NO ECOWATER DEALER, AGENT, REPRESENTATIVE, OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTIES EXPRESSLY DESCRIBED ABOVE.

Some states do not allow limitations on how long an implied warranty lasts or exclusions or limitations of incidental or consequential damage, so the limitations and exclusions in this warranty may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Easy and economical to use, simple to service and maintain

The Commercial Series is designed for simplicity and economy. An LCD readout on the control panel clearly displays the unit's current status at the touch of a button. And the unit uses up to 65% less water and 33% less salt every time it recharges.

Few moving parts make the Commercial Series a dependable performer. But when service or routine maintenance is necessary, this same design makes it easy for your EcoWater technician or your own staff to make the necessary adjustments quickly – without a lot of time or expense.





EXPERIENCE THAT MAKES YOUR CHOICE PERFECTLY CLEAR

EcoWater Systems LLC has been providing high quality water systems for more than 80 years, and is one of the largest manufacturers of commercial water systems in the world. When you buy an EcoWater System, you also get the collective experience and knowledge of this proven, dedicated organization. **Call your local EcoWater representative today** If you need more information about the EcoWater Commercial Series Heavy Duty Water Systems, contact your local EcoWater Systems Dealer or call **1-888-WATER-OK (1-888-928-3765)**, or visit www.ecowater.com for the name of the authorized dealer nearest you.



A Marmon Water/Berkshire Hathaway Company

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