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# RainSoft®

Water Treatment Systems

## **SILVER SERIES WATER CONDITIONING EQUIPMENT**

# Owners Manual



Tested and Validated by the WQA against ANSI/NSF Standard 44 for Hardness, Barium, Radium 226/228 Reduction. See performance data sheet for actual reduction claims. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Part No.: 15260  
Revised 1/03

## **ENJOYING YOUR NEW WATER TREATMENT SYSTEM**

You now own the finest Water Treatment System available on the market. This system will give you years of filtered, crystal clear water, with minimal amount of attention.

Please read this Owners Manual to make using, operating and maintaining your unit as enjoyable as possible. This manual contains all the information you need in a clear, concise manner.

This unit was shipped from the factory ready for operation and will start delivering filtered, treated water immediately.

### **CONDITIONED WATER**

**AT THE BATHROOM SINK:** Use far less soap! After rinsing, you may think that your skin still feels slick or "soapy". Actually, this feeling is not soap but the natural feeling of clean skin! When your skin dries, it will feel soft and moist – like you just used lotion!

**IN THE BATH OR SHOWER:** Use a bath mat to provide traction. With conditioned water, there is no sticky hard water scum.

**IN THE KITCHEN:** Try using less coffee grounds. You will find less is required and your coffee will be smooth and rich. If you do dishes by hand, try a mild, pure soap and see the difference it makes on your hands. If you have an automatic dishwasher, try using less soap than normal. You will find out that your dishes still come out clean.

**IN THE LAUNDRY:** Here again, use less cleaning product. With soft water, you will not have to use as much of your favorite detergent to produce clean, bright fabrics.

### **COMMON MISCONCEPTIONS OF WATER TREATMENT**

There are many misconceptions that people have developed about water treatment devices. The most common topic of confusion is the amount of sodium (Na), not table salt (NaCl), that is added to the water from a conditioner. In reality, ion exchange does replace the hardness ions in your water with sodium ions, but the amount is what's misunderstood.

The exchange process will deliver approximately 8mg of Na (sodium) per 1 liter of water per grain of hardness initially present prior to treatment. Therefore, the amount of sodium (Na) that will be present in a standard 8 oz. glass of treated water, that was 10 grains hard prior to treatment, would be around 19 mg of Na. This is an insignificant amount of sodium, considering a typical slice of wheat bread has about 140mg of sodium present. You would be amazed at the sodium content in some of your favorite foods!

Another major misunderstanding is the idea that soft water will produce clear ice cubes. This is not the case at all. Cloudy or white hazy ice cubes are caused by air that is slowly being released from the water during the freezing process.

The last misconception that needs mentioning is the amount of salt used by the conditioner to regenerate the unit. People seem to think that water conditioners use an enormous amount of salt, which may have been the case in the past, but that was due to old technology and standards. Water conditioners do use salt for regeneration, but the amount of salt varies by water consumption, which determines how many regenerations the unit will have to go through on a monthly basis. The more water that needs to be conditioned, the more times the unit will need to clean itself, resulting in more salt usage. Fortunately, today's technology allows us to dispense just the right amount of salt to regenerate the unit. We do not use excess amounts of salt and we are capable of completely adapting the unit for maximum efficiency based on the individuals water consumption needs.



## **OPERATING YOUR UNIT**

**WORKING PRESSURE:** 20-100 psi (138-689 kPa)

**OPERATING TEMPERATURE:** 40-100° F (4.4-38° C)

**ELECTRICAL REQUIREMENTS:** A properly grounded alternating current (A/C) supply is required.

**USA:** 110V International: 220V

**Note: The system operates on low voltage and requires the use of a transformer (24V) which was installed at the time of installation.**

**EXISTING PLUMBING:** Condition of plumbing should be free from lime and/or iron buildup. Piping that contains large amounts of lime and/or iron should be replaced. If piping is clogged with iron, a separate iron filter should be installed inline before the water conditioner.

**BYPASS VALVE:** A bypass valve was provided on the installation of your unit. This is an important safeguard against the waste of filtered water and more importantly, enables the user to bypass the unit in the event that the equipment leaks or requires service.

**SALT REQUIREMENTS:** When the unit is properly adjusted to your water's condition and household usage, the only further attention required is the regular addition of salt. For maximum satisfaction, add salt before the salt container is empty. Two kinds of salt are recommended:

1. **Block Salt.** Water softener block salt is clean salt pressed into the shape of a cattle block. It is recommended because it is reasonably priced, low in impurities and will not cake.
2. **Solar Salt.** Solar Salt, similar to Rock Salt is 98% pure salt. It is recommended because it is low in cost and low in impurities. Solar Salt is recommended for Apollo models only.

**Note: Rock Salt is mined and crushed. It is low in cost, but contains impurities that deposit in the brine tank, which must be cleaned out periodically. DO NOT use granulated salt. This may cause service problems.**

## **USE OF RESIN CLEANERS**

It is always wise to provide preventative maintenance for your unit. **IF YOU USE A CLEANER CONTAINING NITRIC ACID OR OTHER STORING OXIDIZING AGENTS, PLEASE USE CAUTION AND FOLLOW INSTRUCTIONS CAREFULLY.**

If small amounts of iron are present in your water, use a salt containing iron remover or add iron remover to the resin cleaner when adding salt. This will prevent the treatment media from becoming iron fouled. If an excessive amount of iron is present in your water, we recommend the installation of an iron filter before the conditioner.

## **MAINTENANCE REQUIREMENTS**

The regeneration valve is designed to last a lifetime, but from time to time it may be necessary to clean and lubricate the moving parts. Your water quality and the amount of regenerations necessary will affect this maintenance schedule. Your dealer is knowledgeable in the different water qualities and will know the necessary parts that are required to complete this service.





## Silver Series

Lift and turn time dial to set time of day  
Lift and turn pointer to set time of regeneration

Push desired number of day pins in for regeneration

Push for manual regeneration

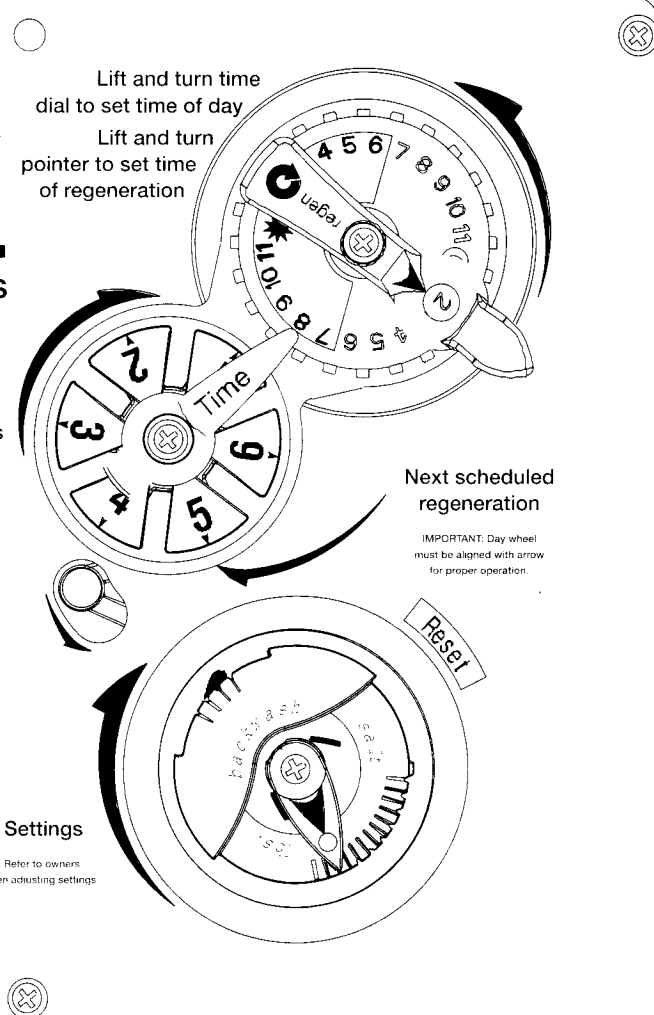
Caution: Do not manually regenerate your system within 3 hours prior to its scheduled regeneration time.

Settings

Caution: Refer to owners manual when adjusting settings

Next scheduled regeneration

IMPORTANT: Day wheel must be aligned with arrow for proper operation



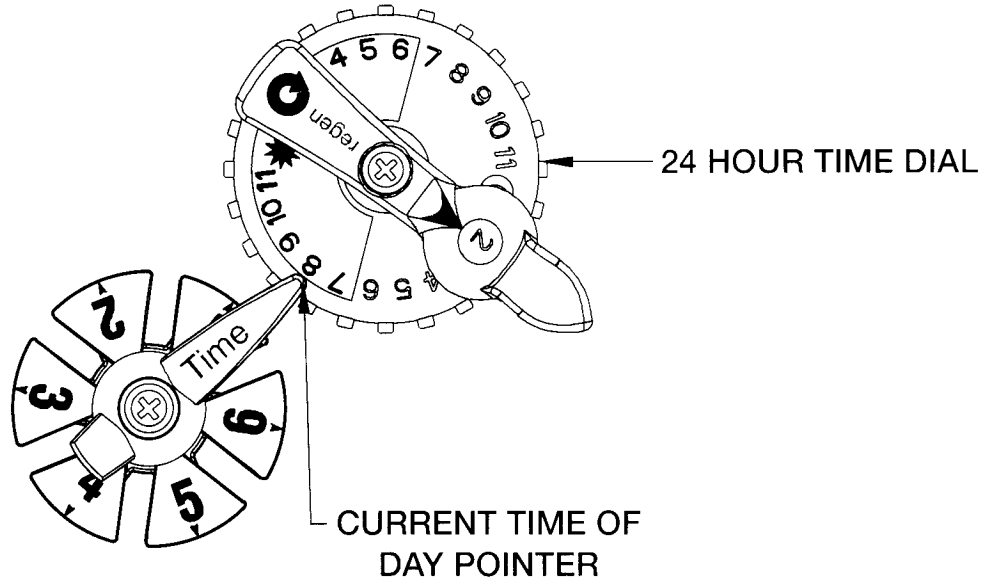
**IMPORTANT NOTICE:** On occasion, you may need to reset the time of day. If you change from standard to daylight savings time, you may want to reset the time, just as you do other clocks in your home (see section on adjusting the correct time of day). Water consumption and regeneration is set for regular, scheduled cleanings. The number of regenerations per week may need adjustment, depending on water consumption and water quality. The more water used in the home, the more times the conditioner must regenerate. If your water hardness changes, see the troubleshooting section on pages 6 - 7 and then contact your local RainSoft distributor.

**Note: If power goes out you must reset the time of day.**

The timer is designed for years of maintenance free service with minimal initial setup. Once the parameters have been established and set by your RainSoft representative, there is no need to adjust the settings, unless a noticeable change in the quality of your water has taken place. If this does occur, please contact your local RainSoft dealer immediately.

## HOW TO ADJUST THE CORRECT TIME OF DAY

To set or change the correct time of day, pull out the 24-Hour Time Dial and continue to rotate the dial until the corresponding hour on the dial is lined up with the Current Time of Day Pointer. The dial has two 12 hour periods that represent daytime and nighttime. The nighttime period is the half colored black with a moon in the 12:00 position. The daytime period is depicted by the light half with a sun. After the position of time is reached, release the 24-Hour Dial, ensuring that the dial resets in gear.



## HOW TO ADJUST THE HOUR OF REGENERATION

To set or change the time of regeneration, pull out the Time of Regeneration Pointer and continue to rotate until the desired time of regeneration is viewable in the pointers "Regeneration Hour View Window". Release the pointer, ensuring that the pointer seats properly on the 24-Hour Dial.

**Note: If you have more than one unit, do not set the regeneration for the same time of day.**

## HOW TO ADJUST THE SALT DOSAGE

To set or change the amount of salt used to regenerate the unit, hold the white Salt/Backwash Dial and move the Salt Dose Pointer with a pen or leverage device (see figure below) to the desired dosage. The pointer will now lock itself into the new position. When adjusting this function, it is recommended that the power is disconnected. After the adjustment is complete, rotate the backwash circuit timer one rotation until the salt pointer is at reset, then reconnect the power.

