



**WATER TREATMENT SYSTEM
14 DAY TIMER
(ASTRO, APOLLO AND AMAZON UNITS)**

OWNERS MANUAL

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WATER TREATMENT SYSTEMS

ENJOYING YOUR NEW WATER TREATMENT SYSTEM

You now have the finest Water Treatment System made. It will give you years of soft, crystal clear water, with only occasional attention.

To make using, operating, and maintaining your unit as enjoyable as possible, please read this Owners Manual. It contains all the information you need, presented in a clear, concise manner.

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

USING 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 at all, 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 guard against slips and falls. With conditioned water, there is no sticky hard water scum to provide traction.

IN THE KITCHEN: Try using less coffee. You'll find less is required, and your coffee will be smooth and rich. If you do dishes by hand, try using a mild, pure soap and see the difference it makes on your hands. If you have an automatic dishwasher, try different cleaning products to find the one that does the best spotless job.

IN THE LAUNDRY: Here again, use less cleaning product. If you are now using a detergent, try using a genuine soap.

OPERATING YOUR UNIT

When your unit is properly adjusted to your water hardness and use of water, 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. Water softener block salt is pure salt pressed into the shape of cattle blocks. It is recommended because it is low in cost, pure, and will not cake.
2. Rock salt is mined and crushed. It is low in cost, but contains impurities which deposit in the brine tank, and must be cleaned out eventually. Use the largest size rock salt obtainable in your area, preferably #2 rock.

Astro owners only: Water softener salt tablets are pure salt pressed into candy mint shape. They are recommended for Astro models only.

DO NOT use granulated salt. This may cause service problems.

From time to time, you may also need to reset the Timer. If you change from Standard to Daylight Savings Time, you may want to reset the timer, just as you do the other clocks in your home. If your water hardness changes—or if your water usage changes—you may want to change the number of times your unit regenerates per week.

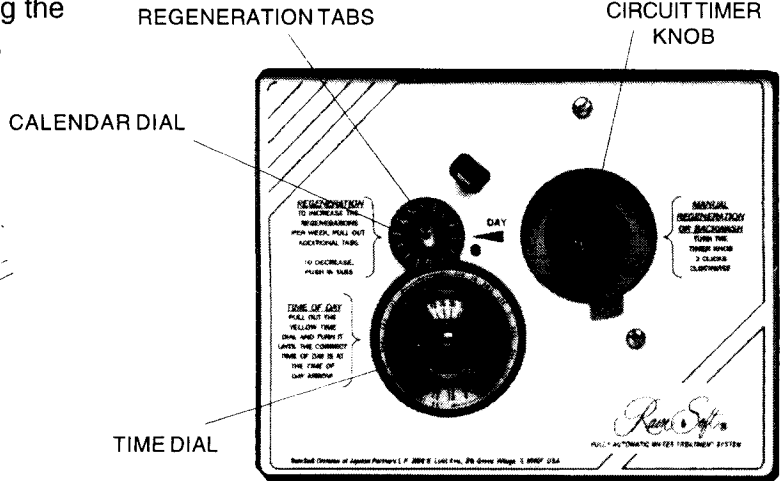
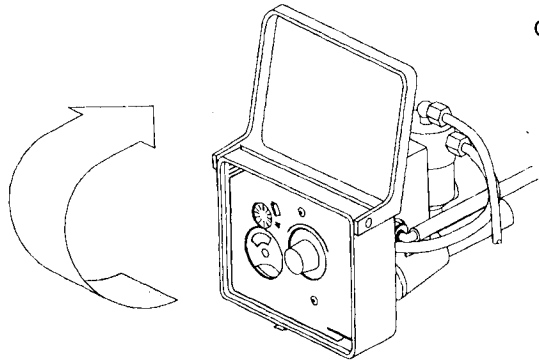
If there is iron in your water, it is wise to provide preventive maintenance by using salt containing an iron remover. Or, you can add iron remover resin cleaner when you add salt (*or more often if necessary*) to prevent the treatment media from becoming iron fouled. **USE CAUTION AND FOLLOW INSTRUCTIONS CAREFULLY IF YOU USE A CLEANER CONTAINING NITRIC ACID OR OTHER STRONG OXIDIZING AGENT.**



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OPERATION OF THE TIMER

Open the timer enclosure and swing the cover upwards to access the timer.



HOW TO SET TIMER TO THE CORRECT TIME OF DAY

Pull the yellow time dial out, and turn it in either direction until the present time of day is opposite the TIME OF DAY arrow.

HOW TO SET TIMER TO THE CORRECT DAY OF THE WEEK

Turn the Calendar Dial counter-clockwise until (either) present day of the week is opposite the DAY arrow.

HOW TO CHANGE THE NUMBER OF REGENERATIONS PER WEEK

To increase the number of regenerations per week, pull out the required additional Regeneration Tabs. Tabs should pull out 1/16" inch.

To decrease the number of regenerations per week, push in both Regeneration Tabs for the same day. Tabs should push in 1/16" inch.

Regenerations needed per week.	1	2	3	4	5	6	7
Pull out these regeneration tabs	Mon.	Mon. Thu.	Mon. Wed. Sat.	Mon. Wed. Fri. Sat.	All Except Tue. & Fri	All Except Wed	All

HOW TO CHANGE THE TIME OF REGENERATION

Loosen the screw in the center of the Time Dial. Turn the black plate in either direction until the desired time of regeneration shows in the window. Tighten the screw.

HOW TO REGENERATE MANUALLY

Slowly turn the Circuit Timer Knob two clicks. In 4 to 7 minutes, regeneration will begin. Unit will complete regeneration automatically and return to service. Normal regeneration cycle will resume automatically.



WATER TREATMENT SYSTEMS

EQUIPMENT TROUBLESHOOTING

1. **CONDITION: HARD WATER** (Water may be rusty without being hard. See 2.)

Possible Causes

Cure

- | | |
|--|--|
| a. Unit not regenerating enough | Increase number of regulations
(See "Operation of the Timer") |
| b. Unusual use of water due to guests,
leaky toilet. etc. | Regenerate manually or increase
number of regenerations.(See "Operation
of the Timer").Check water use at meter. |
| c. No salt | Refill salt container. |
| d. Caked salt. | Remove caked salt and refill with
proper salt. |
| e. Not plugged in. | Plug in and set Timer correctly. |

2. **CONDITION: RUSTY WATER**

- a. If the water is rusty **and** hard, the cause is generally the same as that which is causing hard water.
- b. If the water is rusty but **soft**, these are likely reasons why:
 1. **Iron deposits in your pipes and water heater** are being dissolved by the soft water. No immediate cure (unless you wish to clean your entire plumbing system with acid). Soft water will eventually clean out the system.
 2. **Your water heater may need to be drained.** A heater acts as a collector of sludge. This sludge should be drained off, from the valve at the bottom of the heater, once a month—or more often if necessary. Heater may also be rusty inside.
 3. **You may have soft brass valves in your home.** Some alloys of brass will color soft water yellow. No cure—just let the first gallon of colored water run down the drain.
 4. **Your city water supply may have unusually high iron.** This can be caused by:
 - (a) Hydrants being flushed
 - (b) Storage tank being flushed
 - (c) Repairs on water mains causing agitation of iron sludge in mains, or
 - (d) City water treatment plant not functioning properly.The water from your outside sprinkling faucets may be yellow. It is best not to use water when this condition exists. To do so will cause the treatment resin to become iron-clogged. Check with your city water department.
 5. **Iron content of your water may have increased.** It is not unusual for well water to increase in iron content. **Consult your RainSoft dealer for recommendations.**

3. **CONDITION: WATER SMELLS OR TASTES BAD**

- a. **Magnesium anode rod in water heater.** Causes "rotten-egg" odor in hot water, under some conditions. Cure : Remove rod from heater. **WARNING:** Removal of anode rod in water heater may void water heater's warranty.
- b. **Contaminated well.** Cure: Have your well sterilized.
- c. **Contaminated treatment tank.** Remove the Brine Line from the Brine Tank and insert it to the bottom of a quart of household bleach. Regenerate unit.

For removal of other strong tastes and odors, (except sulphur), install a Taste and Odor Filter ahead of the unit. For removal of sulphur odors, **consult your RainSoft dealer.**



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4. CONDITION: LOW WATER PRESSURE

- a. **Low pressure in city mains.** Check pressure at an outside sprinkler tap. Call city water department.
- b. **Low pressure from pump.** Check pressure at an outside sprinkler tap. Call your well man.
- c. **Clogged faucet strainer.** Cure: Unscrew and Clean strainer.
- d. **Valve in plumbing system partially closed or defective.**

5. CONDITION: SALTY WATER

- a. Soft water normally has a "flat" taste, due to the limestone and iron being removed. Do not confuse this "flat" taste with saltiness.
- b. **If water is salty at a time NOT immediately after regeneration,** it is because water pressure has been turned off, a line has been opened, and brine has siphoned into the treatment tank.

IF WATER IS SALTY, OPEN COLD WATER FAUCET, AND RUN UNTIL SALTINESS DISAPPEARS. DO NOT USE HOT WATER. IF HOT WATER IS SALTY, RUN COLD WATER FIRST; THEN DRAIN WATER FROM BOTTOM OF HEATER.

6. CONDITION: WATER RUNNING FROM DRAIN LINE

Unit is regenerating. Allow unit to complete regeneration. Reset timer to correct time if necessary.

**IF YOU REQUIRE SERVICE ON YOUR RAINSOFT PRODUCT
PLEASE CALL YOUR LOCAL DEALER.**

**IF THERE IS DAMAGE TO PERSONAL PROPERTY
DUE TO PRODUCT MALFUNCTION,
PLEASE FOLLOW THE FOLLOWING INSTRUCTIONS:**

1. DO NOT REPAIR UNIT.

If necessary, change the bypass valve(s) so unit is bypassed.

2. DO NOT REPAIR DAMAGED PROPERTY OR MERCHANDISE.

Damaged property or merchandise should be preserved "as is" for inspection by a properly credentialed Factory Representative. (Not a dealer or agent of dealer.)

3. NOTIFY CUSTOMER SERVICE MANAGER.

Elk Grove Village, immediately by phoning (847) 437-9400 or, toll free (800) 860-7638, followed by a fax to (847) 437-1594 or a confirming letter sent by registered mail to:

**CUSTOMER SERVICE MANAGER
RAINSOFT DIVISION OF AQUION PARTNERS L.P.
2080 E. Lunt Avenue
Elk Grove Village, IL 60007**

4. A FACTORY REPRESENTATIVE WILL EXAMINE THE UNIT and damage and determine liability of company.

POSITIVELY NO CLAIMS WILL BE HONORED BY FACTORY UNLESS THE ABOVE PROCEDURE IS FOLLOWED.