



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

EPA Reg. Number:

74802-2

Date of Issuance:

JUN 30 2004

Term of Issuance:

CONDITIONAL

NOTICE OF PESTICIDE:

- Registration
- Re-registration

(under FIFRA, as amended)

Name of Pesticide Product:

Bacteriostatic Water Conditioner
Model AM1054AG

Name and Address of Registrant (include ZIP code):

Aqua Maid Water Systems, Inc.
6214 Quail Ridge Drive
Lakeland, Florida 33813

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4, or as required by registration review under FIFRA Section 3(g).
2. Make the following labeling changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 74802-E."
 - b. Place the appropriate EPA Establishment No. on the product labeling.

Signature of Approving Official:

Marshall Swindell, Product Manager, Team 33,
Regulatory Management Branch I, Antimicrobials Division

Date:

JUN 30 2004

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3. Submit two copies of the revised final printed labeling before you release the product for shipment.

The Confidential Statement of Formula dated June 24th, 2004, is acceptable.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the accepted label is enclosed for your records.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at 703-308-6237.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch I
Antimicrobial Division(7510C)

Enclosure

3/15

02.13.04

Aqua

Maid®

Water Systems

"Water for the 21st Century"

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUN 3 0 2004

**MODEL AM1054AG
BACTERIOSTATIC WATER CONDITIONER
WITH AQUA-GUARD SILVER CARBON**

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
74802-1

**AQUA-GUARD is designed to inhibit the growth of bacteria
in the Ion Exchange Media for municipally treated water.**

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA REGISTRATION NO:

Active Ingredient.....	Silver as metallic.....	1.05%
Inert Ingredient:.....	98.95%
TOTAL:.....	100.00%

Storage of AQUA-GUARD:	Storage in a closed container that is free of moisture and chemical fumes.
Disposal of spent AQUA-GUARD:	Place in a closed container and discard into the trash.
Net Contents:	One (1) bacteriostatic water conditioner with AQUA-GUARD SILVER CARBON

**IT IS A VIOLATION OF FEDERAL LAW
to use this product in a manner inconsistent with its labeling.**

Aqua *Maid*
Water Systems

P. O. BOX 6278 LAKELAND, FL 33807-6278

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUN 30 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
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Aqua Maid[®]
Water Systems

AQUA MAID WATER SYSTEMS, INC.
P. O. BOX 6278
LAKELAND, FL 33807
863/665-2945

HOMEOWNER'S MANUAL

AQUA MAID
WATER CONDITIONER

MODELS: AM1054AG

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IMPORTANT

This booklet contains valuable information about the operating procedures of your water conditioner. Also, it contains questions that are most asked, special features, specification, and copies of the warranty.

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74802-2

Local Dealer

ELECTRICAL PARTS---FIVE (5) YEAR LIMITED WARRANTY

THE ELECTRICAL COMPONENTS ARE WARRANTED FOR A PERIOD OF FIVE (5) YEARS FROM DATE OF INSTALLATION.

THIS WARRANTY IS A LIMITED WARRANTY. THE OBLIGATION OF AQUA MAID WATER SYSTEMS, INC. HEREUNDER IS LIMITED TO REPAIRING OR REPLACING, AT THE OPTION OF AQUA MAID, ANY PART WHICH IS OR MAY BECOME DEFECTIVE WITHIN THE APPROPRIATE COVERED PERIOD DESCRIBED ABOVE. LABOR CHARGES INCIDENTAL TO THE REPAIR AND/OR REPLACEMENT OF PARTS OTHER THAN FACTORY REPAIRS ARE EXPRESSLY EXCLUDED FROM THIS WARRANTY. TRANSPORTATION COSTS INCURRED IN THE RECEIPT AND INSTALLATION OF REPLACEMENT PARTS COVERED BY THIS WARRANTY SHALL BE PAID BY THE OWNER. THIS WARRANTY SHALL NOT APPLY TO ANY SYSTEM WHICH HAS BEEN DAMAGED BY ACCIDENT, FIRE, FLOOD, ACT OF GOD, ABUSE, NEGLIGENCE, FREEZING, MISUSE, OR ALTERATION, OR INSTALLATION OR OPERATION NOT IN ACCORDANCE WITH AQUA MAID'S INSTRUCTIONS AND APPLICABLE PLUMBING CODES AND ORDINANCES.

THIS LIMITED WARRANTY IS EXTENDED DIRECTLY BY AQUA MAID TO THE ORIGINAL HOMEOWNER AND IS THE SOLE WARRANTY APPLICABLE FOR RESIDENTIAL USE ONLY. ANY OTHER WARRANTIES OR GUARANTEES, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, ARE NOT RECOGNIZED.

AQUA MAID WATER SYSTEMS, INC
P. O. BOX 6278
LAKELAND, FL 33807

**MODEL AM1054AG
LIMITED LIFETIME WARRANTY**

AQUA MAID WATER SYSTEMS, INC. WARRANTS MODEL AM1054AG BACTERIOSTATIC WATER CONDITIONER TO WHICH THE WARRANTY APPLIES. TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FROM THE DATE OF PURCHASE AS FOLLOWS:

MINERAL TANK---LIMITED LIFETIME WARRANTY

THE MINERAL TANK CARRIES A LIFETIME WARRANTY IN THE EVENT THE TANK BECOMES UNUSABLE BECAUSE OF LEAKAGE, CORROSION, OR RUPTURE.

ION EXCHANGE RESIN---LIMITED LIFETIME WARRANTY

THE MODEL AM1054AG CARRIES A HIGH CAPACITY ION EXCHANGE RESIN AND HAS A LIFETIME WARRANTY WHEN IT IS MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WHEN USED IN COMBINATION WITH "AQUA-GUARD" SILVER CARBON.

SALT STORAGE TANK---LIMITED LIFETIME WARRANTY

THE SALT STORAGE TANK CARRIES A LIFETIME WARRANTY IN THE EVENT THE TANK BECOMES UNUSABLE BECAUSE OF LEAKAGE OR RUPTURE. ALL INTERNAL COMPONENTS ARE WARRANTED FOR FIVE (5) YEARS FOR DATE OF INSTALLATION.

CONTROL VALVE BODY--- LIMITED LIFETIME WARRANTY

THE CONTROL VALVE BODY IS WARRANTED FOR LIFETIME FROM DATE OF INSTALLATION. ALL INTERNAL CONTROL VALVE PARTS ARE WARRANTED FOR FIVE (5) YEARS FROM DATE OF INSTALL.

~~LOGSHEET~~
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in EPA Letter Dated:

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CONGRATULATIONS

Aqua Maid welcomes you to a new, carefree way of life | with conditioned water. You can take pride and satisfaction knowing that you own the very best.

We are proud that you have selected the Aqua Maid deluxe water conditioner for your home. More and more quality conscious homeowners are purchasing Aqua Maid's water systems because of its superior performance and its premium quality workmanship.

The following pages of this booklet will introduce you to your new Aqua Maid water conditioner by explaining operation, care and maintenance. In addition, the booklet provides recommendations for getting the very best performance from your unit as well as answers to commonly asked questions.

Alton D. Rochester
Founder
Aqua Maid Water Systems, Inc.

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General Information

Your Aqua Maid Water Conditioner is completely automatic. It will provide an abundance of conditioned water with just an occasional addition of salt to the brine tank when the salt reaches the "add salt" level. Your unit was thoroughly tested at the factory before shipping, and again at the time of installation.

The automatic timer is set to "regenerate" your water conditioner at night while you are sleeping. From experience, this is the best time because your water demand is lowest then and regeneration will not interfere with baths, washing clothes, etc. However, unconditioned water is available from all faucets during the regeneration cycle. With the Aqua Maid Water Conditioner you are never without water.

It is a good idea to wash the conditioner occasionally with a mild detergent and then wax with a car polish. This procedure will keep your water conditioner looking bright and clean for a lifetime.

In case some problem should arise, you can manually by-pass the unit by throwing one lever (see illustration on page 10). Then call your authorized Aqua Maid dealer.

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Problem

Cause

- | | |
|---|--|
| 7. Excessive water in brine tank. | Plugged drain line flow control.
Plugged injector system.
Foreign material in brine valve.
Foreign material in brine flow control. |
| 8. Softener fails to draw brine | Drain line flow control is plugged.
Injector is plugged.
Injector screen is plugged.
Line pressure is too low.
Internal control leak |
| 9. Control cycles continuously | Broken or shorted switch. |
| 10. Drain flows continuously | Piston is not positioned.
Foreign material in control.
Internal control leak. |
| 11. Brine tank fills during Brine in step | Clogged drain
Internal piston seal leaks |

Optional Water Meter

Problem

Cause

- | | |
|-------------------------------------|---|
| 1. Conditioner delivers hard water. | Reserve capacity has been exceeded.
Program wheel is not rotating with meter output.
Meter is not measuring flow. |
|-------------------------------------|---|

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TROUBLESHOOTING

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PRINCIPLES OF SOFTENING WITH ION EXCHANGE

JUN 30 2004

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74882-2

<u>Problem</u>	<u>Cause</u>
1. Softener fails to regenerate	Electric off to unit. Timer defective. Power failure. Transformer burned out
2. Hard water	By-pass valve open. No salt in tank. Internal problem
3. Unit used too much salt	Improper salt setting. Excessive water in brine tank
4. Loss of water pressure	Iron buildup in conditioner. Plugged lines going to conditioner. Inlet of control valve plugged with foreign material.
5. Control valve cycles continuously	Broken switch.
6. Water tastes salty in the Morning	Timer set at the wrong hour of the day

Softening of water by the ion exchange process involves the exchange or substitution of the hardness minerals, chiefly calcium and magnesium, for sodium minerals. The exchange is made possible because the minerals are ionic in nature (often called ionized impurities) which means they have an electrical charge. The ion exchange process is based on the fact that like charges repel one another, and unlike charges attract. Calcium and magnesium ions in water are actually dissolved rock. They have been dissolved by water, the "universal solvent", as it trickles down through strata of rock and soil it dissolves the calcium and magnesium deposits. This dissolved rock eventually finds its way into an underground aquifer and when water from the aquifer is pumped to the surface, it contains the dissolved hardness minerals of calcium and magnesium and is said to be hard water. An ion exchange softener exchanges the hardness minerals, calcium and magnesium, for sodium, from the softener resin. Sodium is less objectionable because it does not build up on surfaces as scale deposits.

This is what the water softener does. However, a water conditioner, such as the Aqua Maid Model AM1054AG, will do more to treat the water by reducing the amount of chlorine and organic compounds. It also inhibits the growth of bacteria in the media tank and controls odors and bad taste.

INSTALLATION INSTRUCTIONS

GENERAL CLASSIFICATION: It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

1. **Select Location**---The location selected must be convenient for drain facilities, electrical outlet and convenient for servicing and adding salt.
2. **Unpacking**---The Bacteriostatic Water Conditioner has been shipped complete in two cartons. One carton contains the mineral tank which is preloaded with gravel bed, high capacity ion exchange resin and Aqua-Guard Bacteriostatic Water Filter Media. The control valve is mounted on top of this tank. The second carton contains the salt storage tank and its components.
3. Turn main water supply off and wait for the pipes to drain.
4. Cut the main water line and remove approximately 6 inches of existing pipe.
5. Remove control valve cover. Place the mineral tank on three plastic leveling legs and level.
6. Move bypass lever so indicator points to bypass position. Connect the main inlet line to the opening in the valve marked "In". Connect the house service line to the opening marked "out". Connect the drain line, providing a minimum of 2 inches for air gap between end of pipe and drain.
7. Turn main water supply on. Customer will have tap water while installation is being completed.
8. Install salt storage tank. Assemble brine valve---connect brine line to control valve ---add water to the salt storage tank. Add salt.
9. (a) Move bypass lever until indicator points to service position and then open a cold water faucet nearest to you. This will vent air from the system. When there is steady flow of water at the faucet, continue running for 15 minutes.

(b) Press and hold the red button on the timer. This disengages the drive gear. Turn the black knob (manual regeneration knob) on the large cycle dial to backwash position to expel air compressed in the unit. When there is a steady flow of water at the drain, continue running for 10 minutes.

(c) Again press and hold the red button to disengage the drive gear. Turn black knob and cycle dial to service position. Let water run from the cold water faucet for 10 minutes. Unit is now in service. Close the cold water faucet.

Q. How much sodium is added to softened water?

- A. Each grain per gallon (GPG) hardness removed adds 7.875 milligrams (mg) of sodium to a liter of water, which is approximately one quart. The average daily sodium intake of an adult individual is 3,000 to 4,000 milligrams and the average fluid intake is 1.6 to 2.0 liters per day. A liter is slightly more than four 8-ounce glasses of water. Two liters per day or 8.4 eight-ounce glasses of water amounts to a total sodium intake from a source of softened 8 GPG water of 125.16 milligrams. This is approximately .3% of the average daily sodium intake.

There is another way to answer this question, and that depends on the hardness of your raw water. The following table shows the additional amount of sodium consumed by drinking one quart of softened water.

Initial Water Hardness	Sodium Added By Softening
5 Grains/Gallon	37.5 Milligrams/Quart
10 Grains/Gallon	75.0 Milligrams/Quart
20 Grains/Gallon	150.0 Milligrams/Quart
40 Grains/Gallon	300.0 Milligrams/Quart

Q. How does this sodium content of conditioned water compare to sodium found in common foods?

- A. The data in the following table demonstrate the usual range of sodium in common foods.

Food	Amount	Milligrams of Sodium
Milk	2 Cups	226
Bread	2 Slices	322
Corn Flakes	1 Ounce	260
Frankfurter	1 Medium	610
Hamburger	¼ Pound	1,510
Catsup	1 Tablespoon	204
Baked Beans	¾ Cup	1,130
Frozen Peas	½ Cup	295
Cottage Cheese	4 Ounces	457
Parmesan Cheese	1 Ounce	528
Pretzels	¼ Pound	1,925
Chili	1 Cup	1,194
Tomato Soup	1 Cup	932
Beef Broth	1 Cup	1,152
Corn Flakes	1 Ounce	260

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It is important to note that about 2/3 of the daily water intake of any individual is through food and only about 1/3 from water itself.

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QUESTIONS & ANSWERS

Q. What is water conditioning?

A. Water conditioning is that branch of engineering that determines the chemical characteristics of a tap water supply, as it enters your home, and treats these characteristics to provide water more suitable and economical for household use.

Q. Why is it essential to improve water quality?

A. Beyond being an absolute necessity of life, water is an outstanding cleaning agent. The trouble is that nature does a lot of things with water long before you have a chance to use it in your laundry or at your kitchen sink. You get it, second hand. Therefore, improving your water quality by water conditioning is just as essential as any other home appliance.

Q. Does the conditioned water have a "different" taste?

A. Taste is difficult to define as no two people have the same sense of taste. A water conditioner will remove certain minerals and turbidity from the water, giving you a cleaner, better tasting water.

Q. Will conditioned water give a cleaner, brighter wash?

A. Yes. For best results, you should use the proper amount of laundering agent. Keep in mind a 70%-80% soap saving can be achieved with conditioned water. Learn to use less laundering agent because none of the cleansing compound will be wasted as in hard water cleaning. The amount of laundering agent you use depends on: (1) its effectiveness, (2) the volume and temperature of water, (3) the size of the wash load, and (4) the type and amount of dirt and grime.

Q. What effect will conditioned water have on plumbing?

A. Before the water was conditioned; the hard water caused a scale buildup in the hot water pipes and water heater. Scale acts as an insulating material. In the water heater, scale reduces heat transmission, wastes fuel, and often causes heating coil and tube failure. The installation of a water conditioner not only prevents further scale formation but will gradually remove previously formed scale deposits. A recent study indicates that softened water offers a saving of 23% in energy cost in the operation of a hot water heater.

Q. Are the minerals which a conditioner removes from hard water essential to health?

A. No. The quantity of minerals found in hard water is not essential to good health.

Q. Is the sodium in softened water harmful to people on restrictive diets?

A. Much depends on the strictness of the diet itself. When the patient is on an extremely restrictive diet, he should drink neither hard nor softened water. Under these conditions he should have demineralized water, distilled water, or water known to be free of sodium for drinking and for the cooking of foods. Such patients are commonly hospitalized. In establishing a salt-free diet for patients, physicians should not overlook the fact that even hard water may contain appreciable amounts of sodium. To determine the amount of complete analysis of the water is necessary.

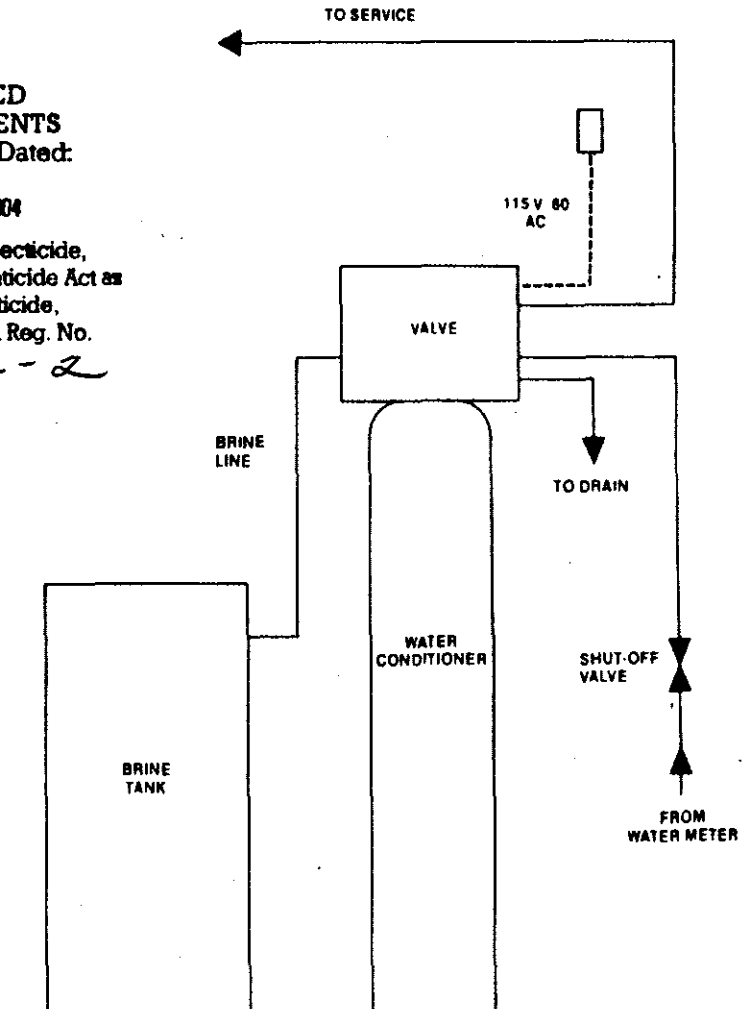
TYPICAL INSTALATION FOR THE AQUA MAID BACTERIOSTATIC WATER CONDITIONER

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START - UP INSTRUCTIONS

TIMER UNIT

The start-up of this system is relatively simple and should be easily accomplished. It is suggested that the start-up procedure be reviewed thoroughly until each step is full understood.

NOTE: If unit has meter option, see end of this section for proper setting instructions.

Set skipper wheel for days that regeneration is to occur.

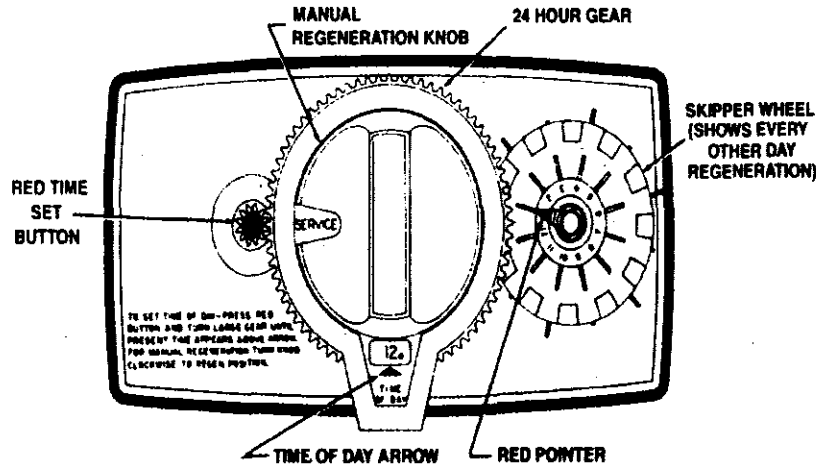
Rotate the skipper wheel until the number "1" is at the red pointer. Set the days that regeneration is to occur by sliding tabs on the skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from the red pointer, extend or retract fingers to obtain the desired regeneration schedule.

Set the Time of Day:

Press and hold the red button in to disengage the drive gear. Turn the large gear until the actual time of day is opposite the time of day pointer.

Release the red button to again engage the drive gear.

Softener should be in the service position. If not, rotate manual regeneration knob clockwise until unit is in the service position.



<u>Model</u>	<u>Resin cu. Ft.</u>	<u>Softening capacity</u>
AM 1054AG	1.0	32,000 Gr.
Tank Size	10" Dia.	54" Ht.
Brine Tank	18" Dia.	33" Ht.
Salt Capacity		300 lbs
Salt Usage Per Regeneration		8 lbs.
Voltage	120 AC/ 24 volts AC	

GALLONAGE DETERMINATION FOR METERED VALVES

<u>Hardness (gpg)</u>	<u>Gallon Setting</u>
7	4571
8	4000
9	3556
10	3200
12	2667
14	2286
18	1778
20	1600
22	1455
24	1333
26	1257
30	1067

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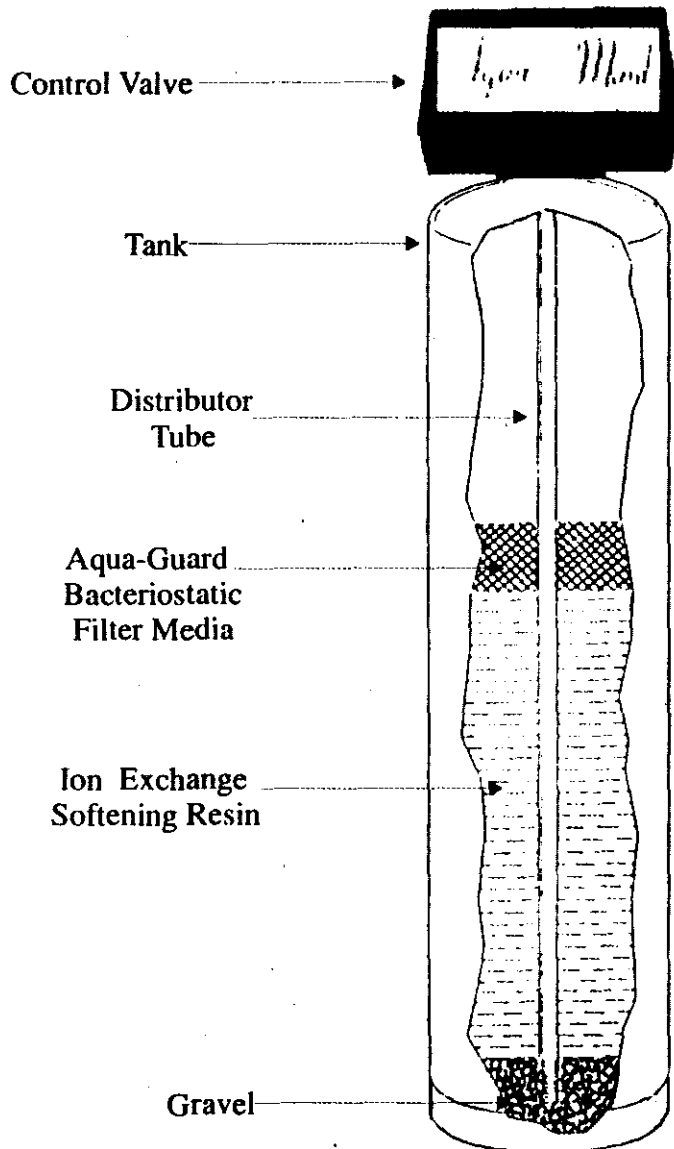
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AQUA MAID BACTERIOSTATIC WATER CONDITIONER



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METERED VALVE

The start-up of this system is relatively simple and should be easily accomplished. It is suggested that the start-up procedure be reviewed thoroughly until each step is fully understood.

Set water usage program wheel using the following procedure:

Typical Residential Application

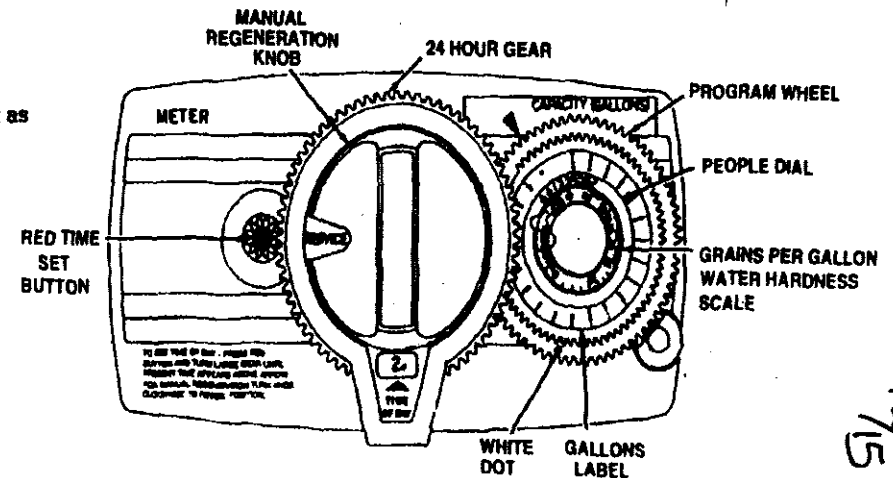
To program, just set the time, set the gallonage, and it automatically monitors system demand and regenerates only when necessary. Set the program wheel by pulling out on the center portion to disengage and aligning the number of gallons desired with the white dot. Release dial and check for firm engagement at setting. To determine gallonage setting refer to the softener specification chart (Page 16). Select the exchange capacity (1 cu ft resin = 20,000 grains capacity with 7 lbs. salt) and divide the total capacity by the grains of hardness of the raw water. Deduct 75 gallons per person from total gallons and set gallonage wheel on the valve. The capacity (gallons) arrow denotes remaining gallons exclusive of fixed reserve.

Set the Time of Day

Press and hold the red button in to disengage the drive gear.

Turn the 24-hour gear until the actual time of day is opposite the time of day pointer. Release the red button to again engage the drive gear.

Softener should be in the service position. If not, rotate manual regeneration knob clockwise until unit is in the "service" position.



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Regeneration

Your Aqua Maid Water Conditioning unit consists of a tank filled with a premeasured amount of an ionic exchange resin, formulated for Aqua Maid equipment. On top of the tank is the control valve/timer, which works on the same principle as an electric clock. Alongside the unit is a storage tank which holds the salt and brine for the regeneration cycle.

Regeneration means recharging or recleaning the ionic exchange resin. It is important to know that the entire cycle is automatic and you will have nothing to do with it. The following steps are for your own enlightenment...and to demonstrate the thoroughness of the automatic cycle:

1. Backwashing, which reverses the action of the water, throws off the sediment (called turbidity) that has been filtered out of the water, and flushes it down the drain.
2. Salt, as brine, is injected into the unit to clean and revitalize the ionic resin. (The amount of salt used is controlled by a float valve, which operates the same as the float in the water tank of your toilet.)
3. Slow rinse.
4. Fast rinse.
5. Valve automatically returns to the service position to again supply you with good, conditioned water.

What Salt to Use

Salt is your water conditioner's fuel. Using the right fuel is as important here as it is to get the best performance from your car. It is strongly recommended to use only nugget or pellet type salt in your water conditioner. This type of salt is pure and free of undesirable insolubles. Nugget or pellet type water conditioner salt is available from your Aqua Maid dealer.

NOTE: Common rock salt is NOT recommended because much of it contains insolubles. The continued use of common rock salt will necessitate more frequent cleaning of the bring tank, or worse, it may cause a malfunction of the valving. However, specially processed water conditioner rock salt, as handled by your local dealer, may be used.

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LIFE EXPECTANCY OF AQUA-GUARD BACTERIOSTATIC MEDIA

MODEL: AM1054AG

The water conditioner is loaded with six (6) lbs. of Aqua-Guard Filter Media. This will last for 175,000 gallons of water usage.

2 IN FAMILY	30 MONTHS
3 IN FAMILY	22 MONTHS
4 IN FAMILY	18 MONTHS
5 IN FAMILY	16 MONTHS
6 IN FAMILY	14 MONTHS
7 IN FAMILY	13 MONTHS
8 IN FAMILY	12 MONTHS

It is suggested that a water meter reading be noted at time of installation. Add to that reading the expected gallonage life of the Bacteriostatic medium from the above chart. Record what the water meter reading will be when replacement should be made.

Water meter reading at time of installation _____ gal.

Expected life of Media (from above chart) _____ gal.

Water meter reading, at media replacemant _____ gal.

BACTERIOSTATIC FEATURE

MODEL: AM1054AG

The Aqua Maid Bacteriostatic Water Conditioner is a whole house water filtration system. In addition to softening municipally treated water, it also inhibits the growth of bacteria in the filter media prolonging the life of the media. The bacteriostatic feature of the Aqua Maid Water Conditioner is based on NASA silver ion technology developed to purify water aboard the space shuttles. Silver impregnated activated carbon is the agent used by Aqua Maid to control bacteria growth in the filter media and to remove bad tastes and odors. The Water Conditioner also reduces chlorine, inorganic minerals, and organic compounds from the water.

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IT IS A VIOLAION OF FEDERAL LAW to use this product in a manner inconsistent with its labeling. Only use EPA Registered silver impregnated carbon replacement media, as stated on the label, in this unit. For your protection, do not accept a replacement media unless it is sealed and has Aqua Maid's valid EPA registration number on the package.

EPA has restricted the Bacteriostatic models for use only on treated municipally supplied tap water, which precludes its use on well water.

When to Add Salt

The brine tank has a capacity of up 400 lbs. of nugget or pellet salt. You can add salt whenever it is most convenient for you, but it is important to replenish the supply before the pellets reach the "all salt" level indicated by the label on the salt storage tank.

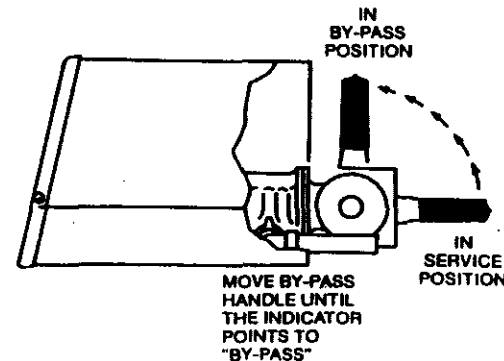
Bridging or Caking

The salt platform in your brine tank has been engineered to eliminate salt bridging or caking. However, under certain atmospheric conditions, these circumstances can occur and will prevent the salt from coming in contact with the water level. When your water seems to be hard, check the salt in the storage tank. If it appears to be bridging or caking, break it up with a short wooden stick. In doing so, be careful not to probe the full depth of the brine tank because you may damage the salt platform.

By-Pass Instruction

In case any problem should occur that cannot be immediately resolved, it is recommended to manually by-pass the unit as shown and call your authorized Aqua Maid dealer.

Models AM 1054AG And AM 1054DT



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HOW TO MANUALLY REGENERATE YOUR WATER CONDITIONER AT ANY TIME

Turn the manual regeneration knob clockwise.

This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.

The black center knob will make one revolution in the following three hours and stop in the position shown in the drawing.

Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one-half of this time.

In any event, conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line.

Potassium Substitute

Q. How much potassium will be added to my water?

A. Assuming you drink 2 quarts of water per day, you would add the following amounts of potassium to your diet, depending on the initial hardness of your water.

Initial Water Hardness

<u>Grains Per Gallon</u>	<u>Potassium (mg)</u>
5	133
10	266
15	400
20	533

The following amounts of potassium would be present in some common fruits and vegetables.

<u>Fruit or Vegetable</u>	<u>Potassium (mg)</u>
Apple	152
Banana (1 medium)	440
Cantaloupe (1/2 small)	682
Beans (1/2 cup)	390
Broccoli (1 cup)	232
Potato (1 medium)	782

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 9 11 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.

74802-2

SPECIAL FEATURES

Meter-Controlled Regeneration

The Metered Model controls minimized salt usage and water waste by accurately monitoring the conditioned water and then initiating a regeneration only when the ionic exchange resin is near exhaustion. Six-cycle downflow brining assures accurate salting while the downflow brining assures accurate salting while the adjustable time regeneration program uses the minimum amount of water required per cycle.

In service a mechanical meter accurately monitors water usage. This feature eliminates the costly wasted capacity due to premature regenerations.

Vacation Periods

There is no need to be concerned about disconnections or adjustments on your metered controlled water conditioner before leaving your home for long periods of time. When no water is being used, the "brain" will simply remain idle for that period of time and be ready to monitor water usage when you return home.

High Usage Demand/Weekend Guests

The metered controlled water conditioner's "brain" will automatically recognize the increase in water usage and regenerate before running out of conditioned water. Unpredictable water demand is never a problem with the Aqua Maid water conditioner.

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