

ENCLOSURE I - PROPOSED WORDING FOR PRODUCT LABEL

GENERAL IONICS MODEL DWC 1500 BACTERIOSTATIC
DRINKING WATER CONDITIONER

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 10 1984

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

35900-13

For use on treated municipally treated water in the home

- Removes objectionable taste and odors
- Inhibits the growth of bacteria within the filter media bed
- Removes suspended solids

CAUTION
KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 35900-

EPA Est. No. 35900 PA 01

STORAGE: Store in closed container which excludes moisture and chemical fumes

ACTIVE INGREDIENT: Silver as metallic 0.47%

INERT INGREDIENTS: Activated Carbon 89.23%
Cellulose Prefilter 10.30%

Total Inert Ingredients 99.53%

DIRECTIONS FOR USE: See enclosed Owner's Manual and Installation Instruction Booklet

DISPOSAL: Wrap spent cartridge in newspaper and discard with trash.

NET CONTENTS: One (1) General Ionics Model DWC 1500 Bacteriostatic Drinking Water
Conditioner

Another fine product by the manufacturers of General Ionics Water Conditioning Equipment

IONICS, INCORPORATED, 3039 WASHINGTON PIKE, BRIDGEVILLE, PA 15017

ENCLOSURE II

OWNER'S MANUAL - INSTALLATION INSTRUCTIONS

GENERAL IONICS MODEL DWC 1500
BACTERIOSTATIC DRINKING WATER CONDITIONER

GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

INTRODUCTION

1. Bacteriostatic: The General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner contains a bacteriostatic filter cartridge. A bacteriostatic cartridge is one which inhibits the growth of bacteria within the filter cartridge media.

Since "potable" water can, by law, contain a certain number of harmless bacteria indigenous to municipally treated water, the potential for a buildup or growth of these bacteria trapped within the filtering media does exist.

The low level of bacteria in tap water along with organic compounds normally present in a water supply become trapped in the filter bed medium. After a period of time, the filter bed will contain considerable number of bacteria and in the presence of the organic compounds which become a source of nutrients for bacteria, this filter becomes a breeding place for bacterial growth, especially during nonflow periods when the water is not in use, such as overnight.

The inhibiting agent in the General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner is HYgene silver impregnated granular activated carbon. HYgene is a proprietary formulation manufactured by Ionics, Incorporated. EPA has restricted the use of the General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner for use on treated municipally supplied tap water which precludes its use on well water.

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General Ionics

2. **Effective Life Indicator:** Another unique feature of the DWC 1500 Bacteriostatic Drinking Water Conditioner is the "Effective Life Indicator". This specially designed metering device continuously monitors water usage and indicates when the unit should be serviced (red area of the dial). The flow delivery will automatically shut off if you have exceeded the units designed capacity. If the "Effective Life Indicator" has shut off the service flow, both the AC-10 and HY-10 cartridges should be changed.
3. **Prefilter:** In order to protect the two primary filters (AC-10 & HY-10), a 20 micron Prefilter (PF-5) has been made part of the complete General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner.
4. **Complete System:** The General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner comes preassembled and is installed with a separate delivery faucet. This allows for easy installation and the high quality, filtered water can be used for specific purposes such as drinking, cooking, coffee, tea, ades, etc.

INSTALLATION

1. **Select Location:** Each installation will vary somewhat depending on the location and direction of the water lines and the space available under the sink. If space under the sink is limited, mounting the unit on the basement wall directly under the kitchen sink area may be a desirable option. If so, additional plastic tubing may be required to make the necessary connections. This can be purchased at your local hardware store.

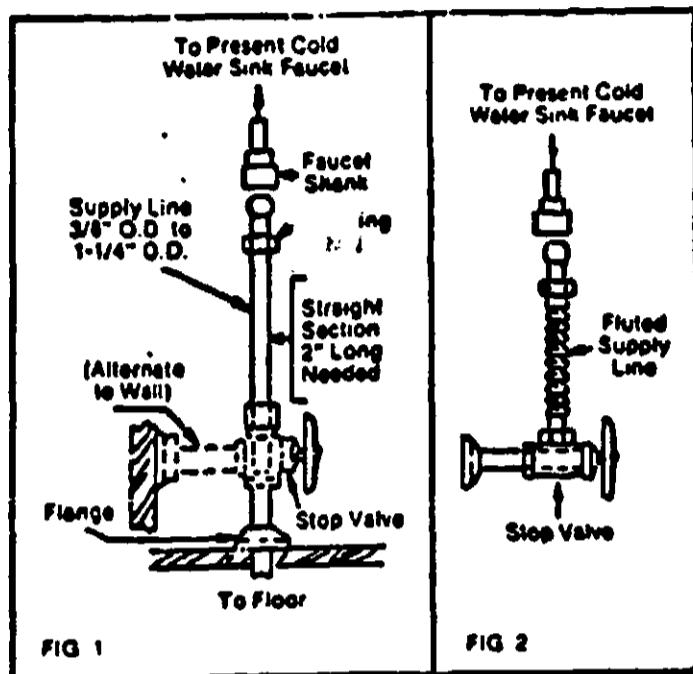
The cold water supply to your kitchen faucet may look like either FIG. 1 or FIG. 2. If the straight 3/8" minimum outside diameter supply tubing is not presently part of your cold water supply for the faucet plumbing connection (as in FIG. 1), then this part must be purchased at your local hardware store and adapted to your system. It is not supplied as part of this kit. If your supply line is fluted like in FIG. 2, then at least one 2" length of a straight section of 3/8" minimum O.D. tubing must be coupled to the fluted line, or the fluted line may be completely substituted for by non-fluted (smooth) 3/8" minimum O.D. tubing. A straight section of tubing (non-fluted) is needed to connect the saddle valve as shown in FIG. 3. FIG. 3 is an example of how the parts of this system are assembled to make a typical installation.

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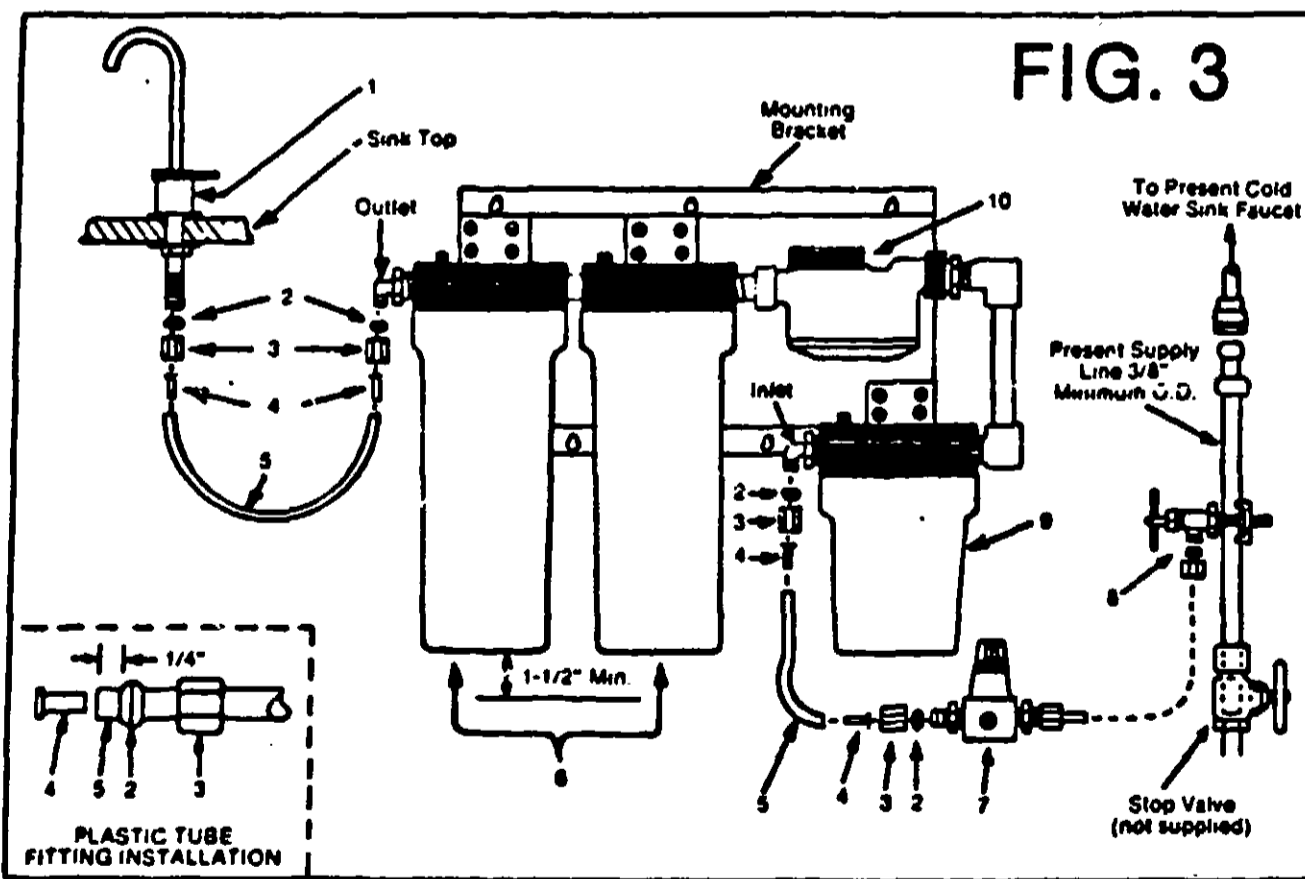
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35900-63



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<u>Key No.</u>	<u>Part No.</u>	<u>Description</u>
1	1500-079	Faucet, plus two flat washers
2	1500-072	Brass compression ferrule, 1/4" (4)
3	1500-071	Brass compression nut, 1/4" (4)
4	1500-051	Brass insert for 1/4" plastic tubing (4)
5	1500-073	Plastic tubing, 1/4" O.D. x 96" (1)
6	1500-017	Molded sump (for HY-10 & AC-10 cartridges)
7	1500-076	Water pressure reducer with copper tube connection to saddle valve
8	1500-051	Saddle tapping valve, 1/4" compression outlet with nut and ferrule
9	1500-014	Prefilter sump
10	1500-070	Effective Life Indicator
*	1500-113	HY-10 Bacteriostatic Cartridge (1) 9 3/4" long
*	1500-114	AC-10 Activated Carbon Cartridge (1) 9 3/4" long
*	1500-115	PF-5 Prefilter Cartridge (1) 4 7/8" long
*	1500-026	O-Ring seal for filter sumps (3)

* Not illustrated

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35900-13

2. Install Assembly: Place the unit under the sink in the desired location and support against the cabinet wall. Allow a minimum of 1 1/2" of unobstructed space below the filter sumps for cartridge changing. Mount the unit to the cabinet wall using the five mounting screws provided. The two large cartridge sumps (Key No. 6, FIG. 3) may be unscrewed from the heads to facilitate securing the two bottom mounting screws.

Note: When removing the filter sump, the O-ring seal may lift out of the groove in the sump and, at times, it may stick to the cap (head). The rubber O-ring seal which fits into the groove in the sump provides the water tight seal between the cap and the sump when your filter is in operation. To prevent a water leak, the O-ring must be properly seated in the groove in the sump each time the unit is reassembled. Wipe O-ring clean with a rag, then lubricate the O-ring with a very light coating of white petroleum jelly (Vaseline). Place O-ring in groove in sump and completely

seat all the way around. Do not wipe the O-ring clean of lubricant after it has been seated as the lubricant prevents "crawling" of O-ring during the tightening of the cap.

3. Install Saddle Valve & Pressure Reducer: Shut off the water supply to the cold water line being worked on. The saddle valve (Key No. 8, FIG. 3) fits 3/8" O.D. through 1.315" O.D. soft or hard tubing or pipe and self-pierces only on copper tubing. THIS VALVE DOES NOT "SELF-PIERCE" IN IRON OR BRASS. A 5/32" diameter hole must be drilled in iron pipe or brass tube.

A. To install saddle valve on copper tube:

CAUTION: Do not turn handle before or while installing the saddle tapping valve. Be sure the piercing lance does not protrude beyond the rubber gasket. Failure to do this may result in damage to the piercing needle.

1. Assemble the saddle tapping valve on the copper tube with enclosed bolts and nuts.
2. Tighten the bolts evenly and firmly. The brackets should be parallel.
3. Turn the handle clockwise until you feel it is firmly seated.

Note: You have now pierced the copper tube and the valve is closed. When installation is complete and you are ready to turn on the water, turn the handle counterclockwise to open the valve.

B. To install saddle valve on steel or brass pipe:

1. Shut off the water supply and drain the line.
2. Drill a 5/32" diameter hole in the pipe. Use a hand or cordless drill to avoid a shock hazard.
3. Turn the handle to expose the lance beyond the rubber gasket no more than 3/16".

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33800-13



4. Place the body of the valve over the hole so that the lance fits into the hole. Tighten the bottom clamp evenly and firmly so that the brackets are parallel.
5. Turn the handle clockwise to close the valve.

C. To install pressure reducer to saddle valve:

1. The pressure reducer (Key No. 7, FIG. 3) comes fitted with a short piece of copper tubing for connecting directly to the saddle valve outlet (Key No. 8). Slip the nut and ferrule over the end of the copper tube and connect to the compression fitting outlet on the saddle valve.
2. Tighten securely with a wrench.

Note: Do not attempt to adjust the pressure reducer. It is already preset to deliver a maximum pressure of 60 psi.

4. Install Faucet: Install the drinking water faucet (Key No. 1, FIG. 3) in the hole normally used for the sink faucet spray. If you are using a sprayer or do not have a hole in your sink for one, then you have to drill a hole for the faucet. The faucet fits through a 7/16" or larger hole.

To drill a hole in a metal sink, first mark the location by making a small indentation with a punch. For a porcelain sink, first cover the hole location with a piece of masking tape, then use a punch to "score" the porcelain before drilling.

Remove the securing nut and lock washer and make sure the black rubber gasket is secured against the base of the faucet. The large metal washers are used on the top and underside of the sink, if needed, to firmly attach the faucet. Peel off the bluish coating from one washer to expose the bright chrome surface. Use this washer on top of the sink. Place the faucet through the mounting hole and slide the other large washer (if necessary) and the lock washer on the threaded base extending through the underside of the sink. Secure the faucet by tightening the nut against the underside of the sink. You are now ready to connect the system.

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35900-13

5. Connect System: Cut the proper length of the plastic tubing (Key No. 5, FIG. 3) to connect the outlet on the pressure reducer to the inlet of the prefilter (Key No. 9). Slide the compression nut (Key No. 3) into the tubing so the open threaded end is toward the end of the tube to be connected. Slip the ferrule (Key No. 2) 1/4" onto the tube end and push the brass insert (Key No. 4) into the tube end so that the flange of the insert rests against the tube end (see diagram in FIG. 3). If the brass insert fits too tightly in the plastic tubing, it should be lubricated with petroleum jelly (Vaseline). The plastic tube with compression nuts, ferrules, and brass inserts can now be connected to the compression fittings of the pressure reducer and prefilter. Tighten the nuts securely with a wrench.

Again, cut the proper length of plastic tubing to connect the outlet of the unit to the delivery faucet. Assemble the nuts, ferrules, and inserts onto the tubing as above and complete the connection by tightening the nuts securely with a wrench.

Installation is complete and you are now ready to charge the system. Make sure the cold water supply is turned on. To charge the system with water, turn the handle of the saddle valve 1/4 turn counterclockwise. Discharge air from the system by depressing the red relief buttons on the caps of the filter housings. When all the air has escaped from the system, fully open the saddle valve. Check the entire system for leaks.

Note: Check the "Effective Life Indicator" dial to make sure that the "Reset To Here" arrow at the beginning of the aqua-blue area is aligned with the large arrow on the inlet portion of the Indicator body (see FIG. 4A). If not, turn the dial clockwise until the two arrows are properly aligned. Note: The dial will turn only clockwise.

Note: The HY-10 and AC-10 cartridges will contain a very small amount of carbon fines (very fine black powder). New cartridges should be flushed 15 minutes to remove all traces of fines before using the water.

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OPERATION AND SERVICING

How To Use Faucet -

For controlled water flow, push the black handle down. For constant water flow, flip the black handle up.

Changing Filter Cartridges -

After using your conditioner for several months, the "Effective Life Indicator" (Key No. 10, FIG. 3) should indicate water usage by having the large arrow on the indicator body pointing well into the colored, aqua-blue portion of the dial.

If, after heavy or a long period of use, the large arrow is pointing into the red portion of the dial (see FIG. 4B), or if the "Effective Life Indicator" has automatically shut off, the HY-10 and AC-10 cartridges and the prefilter cartridge (if not recently changed, see below) must be changed.

The prefilter cartridge should be changed every 3-6 months or when the service flow drops to a very slow rate. If your water contains an unusually high level of suspended solids (turbidity), the prefilter may need changing more often.

1. Changing the prefilter:

- A. Turn off the water to the unit by turning the saddle valve handle all the way in clockwise: Release the water pressure by depressing the red pressure relief button on the prefilter head.
- B. Unscrew the prefilter sump (lower housing) and remove all the expended filter cartridge and discard.
- C. Rinse out the sump and fill about 1/3 full with water. Add one capful of 5% household bleach (5% sodium hypochlorite) and scrub with a brush or sponge. Rinse thoroughly and insert a new prefilter cartridge into the sump.

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- D. Screw the sump onto the head and hand-tighten securely. Make sure the O-ring seal is seated properly in sump. (See Note under step 2 on Page 4). Open the saddle valve 1/4 turn and depress the red pressure relief button until all the air has escaped. Fully open the saddle valve.

2. Changing the HY-10 & AC-10 Cartridges:

- A. If the large arrow on the body of the indicator is pointing into the red area of the dial (see FIG. 4B); OR if the indicator has automatically shut off. Both cartridges must be changed.

Each time the HY-10 and AC-10 cartridges are changed, the "Effective Life Indicator" must be reset.

- B. Turn off the water to the unit by turning the saddle valve handle all the way in clockwise. Release the water pressure by depressing the red pressure relief buttons on the heads of the HY-10 and AC-10 cartridge housings (Key No. 6, FIG. 3).
- C. Unscrew the two HY-10 and AC-10 sumps and discard the expended cartridges. Rinse out the sumps and fill the sumps about 1/3 full with water and add two capfuls of 5% household bleach. Scrub with a brush or sponge. Rinse thoroughly and insert new HY-10 and AC-10 cartridges into the sumps. Screw the sumps back onto the heads and hand tighten securely. Make sure "C" ring seal between sump and cap is properly lubricated and seated.
- D. Reset the "Effective Life Indicator" (Key No. 10, FIG. 3). Note: The dial will turn only clockwise. To reset the "Effective Life Indicator" after changing the HY-10 and AC-10 cartridges, turn the dial clockwise until the "Reset To Here" arrow at the beginning of the aqua-blue area is aligned with the large arrow on the body of the indicator (see FIG. 4A).

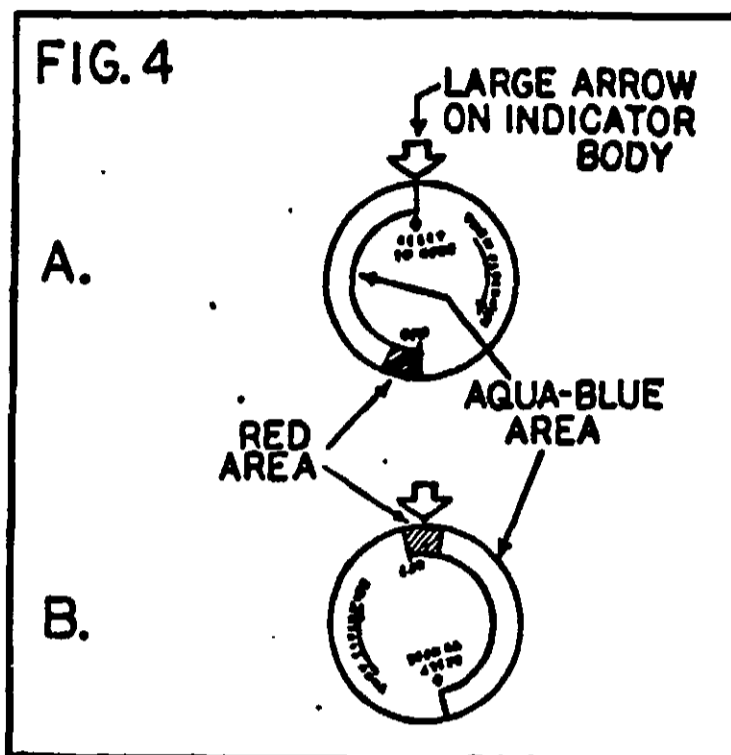
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35960-13

Note: As the dial approaches the reset point, resistance will be felt. Continue turning the dial firmly until you have reached the reset point (FIG. 4A). If you go past the reset point, continue turning the dial all the way around clockwise until you reach the reset point again.



- E. Open the saddle valve 1/4 turn and depress the two red pressure relief buttons on the HY-10 and AC-10 housing heads until all the air has escaped. Fully open the saddle valve and check the system for leaks. Open the delivery faucet and flush the system for 15 minutes.

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55900-13

SPECIFICATIONS

Dimensions: Width - 18" Depth - 5 1/4" Height - 13 1/2"

Weight: 13 Lbs. (when filled with water)

Flow Rate: Maximum: 1.0 GPM @ 60 PSIG
(0.75 GPM @ 30 PSIG)

Operating Pressure: Maximum: 125 PSIG - Water pressure regulator (Key No. 7, FIG. 3) is preset to 60 PSI maximum. This must be installed on the saddle valve outlet.

Recommended Minimum Pressure: 25 PSIG

Maximum Temperature: 100°F (FOR COLD WATER USE ONLY)

Replacement Items:

<u>Item</u>	<u>Part No.</u>
HY-10 Bacteriostatic Cartridge	1500-113
AC-10 Activated Carbon Cartridge	1500-114
PF-5 Prefilter Cartridge	1500-115
O-Ring Seal (used for all three sumps)	1500-026

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ENCLOSURE III

GENERAL IONICS MODEL DWC 1500
BACTERIOSTATIC DRINKING WATER CONDITIONER

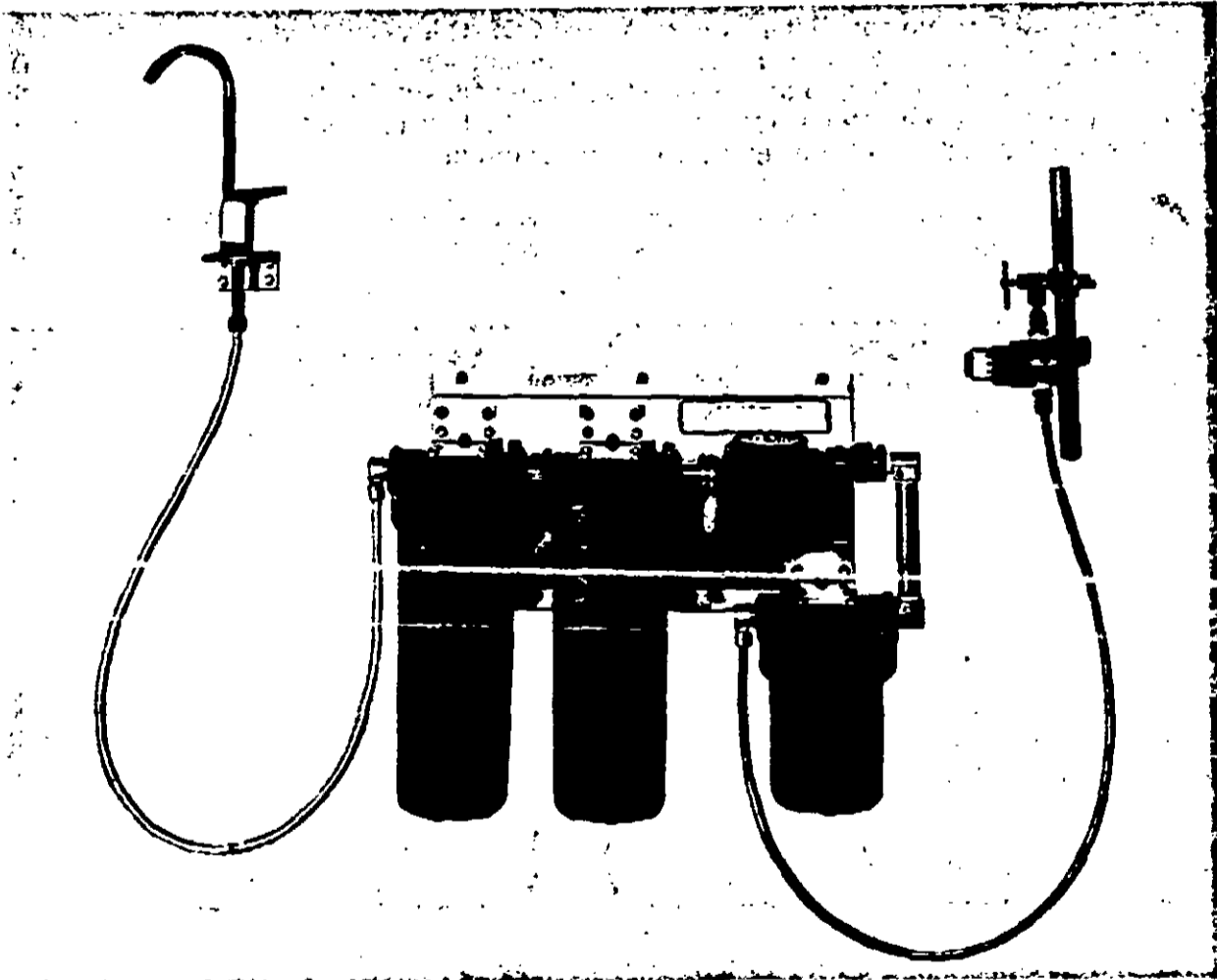
For use on treated municipally treated tap water in the home

- Inhibits the growth of bacteria within the filter media bed
- Removes suspended solids
- Removes objectionable tastes and odors

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BACTERIOSTATIC FEATURE

Municipally supplied tap water usually contains a number of harmless bacteria indigenous to the chemical treatment. This low level of bacteria along with organic compounds normally present in a water supply become trapped in the filter media bed. After a period of time, the filter contains a considerable number of bacteria and, in the presence of the organic compounds which become a source of nutrients for bacteria, the filter then becomes a breeding place for bacterial growth.

The unique feature of the General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner is its ability to inhibit this growth of bacteria within the filter. The inhibiting agent is HYgene, an Environmental Protection Agency Registered Bacteriostatic Water Filter Material. Technically, HYgene is a proprietary formulated silver impregnated granular activated carbon manufactured by Ionics, Incorporated.

PREFILTER

To protect and assure full life of the primary filters, a prefilter for removal of suspended solids has been included in the assembly.

EFFECTIVE LIFE INDICATOR

Another unique feature of the General Ionics Model DWC 1500 Bacteriostatic Drinking Water Conditioner is the "Effective Life Indicator". This specially designed metering device continuously monitors water usage and indicates when the unit should be serviced. The flow delivery will automatically shut off upon expending the units designed life of 1,500 gallons. Cartridge replacement and reset the "Effective Life Indicator" will be necessary at this time.

SPECIFICATIONS

<u>Dimensions:</u>	13 1/2"H x 5 1/4"W x 18"L
<u>Weight:</u>	13 pounds when filled with water
<u>Flow Rate:</u>	1.0 GPM Max. @ 60 PSIG .90 GPM Max. @ 45 PSIG .75 GPM Max. @ 30 PSIG

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Flow Rate Cont'd: The system includes a flow restrictor which allow a maximum delivery rate of 1 GPM.

Maximum Temperature: 100° F (for cold water use only)

Tubing: Polyethylene

Housing Construction: Polypropylene Cap and Sump

Shipping Weight: 14 pounds (one complete unit per master carton)

Operating Pressure: 125 PSIG Maximum. (Water pressure regulator included; preset to deliver 60 PSIG maximum. This regulator must be installed on the saddle valve outlet)

REPLACEMENT ITEMS

<u>Item</u>	<u>Part No.</u>
HY-10 HYgene Bacteriostatic Cartridge	1500-113
AC-10 Activated Carbon Cartridge	1500-114
PF-5 Prefilter Cartridge	1500-115
O-Ring Seal (used for all three sumps)	1500-026

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35910-13

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (R11-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	10 MAY 1984
	NAME OF PESTICIDE PRODUCT	

NOTICE OF PESTICIDE: REGISTRATION
 REREГИSTRATION
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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- d. On page 2 of Enclosure III under Prefilter, revise "removal of suspended solids" to read "filtration of suspended solids such as rust and sediment..."
- e. On page 3 of the Owner's Manual in the third paragraph under "Changing Filter Cartridges" revise the second statement to read "If your water contains an unusually high level of suspended solids such as rust and sediment, the prefilter may need changing more often."
- f. As previously indicated, this is not a system therefore the word "system" must be changed to "unit" in the following places in the Owner's Manual; page 5-last line; page 7-line 1 in paragraph one and lines 1, 3, 4, 6 and 7 in paragraph three; page 10-lines 4 and 5 in paragraph two. On page 2, item 4, change "complete system" to "Unit plus faucet." Also, in Enclosure III, (Specifications) on page 3, line 1, change "system" to "unit."

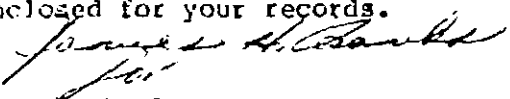
The silver release data are acceptable. EPA Accession Number 253140 has been assigned to the data.

Please note that a separate application for registration of the replacement cartridge should now be submitted.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

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


John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosures

RD-DIS:DCR-04948:J.Lee:CG:Raven:557-2226:RD:57:5/7/84:Del.5/22/84