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CARIBBEAN CLEAR WATER TREATMENT SYSTEM – COPPER GENERATING DEVICE FOR ALGAE CONTROL
MODEL **50-R** MAXIMUM OUTPUT 5g CU/24HR – REGISTRATION NO. 21417 PEST CONTROL PRODUCTS ACT
WARNING: STAINING OF POOL SURFACES MAY OCCUR DUE TO DEPOSIT OF COPPER SALTS.
EXCESSIVE LEVELS OF COPPER WILL INCREASE THE PROBABILITY OF THIS OCCURRENCE.
READ OWNERS MANUAL AND LABEL BEFORE USING.
FENIX TECHNOLOGY LTD., 3345 POND BRANCH ROAD, LEESVILLE, SC 29070 USA
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DOMESTIC

CARIBBEAN CLEAR
WATER TREATMENT SYSTEM
DOMESTIC

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MODEL 50-R

OWNERS MANUAL

FOR ALGAE CONTROL

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CARIBBEAN CLEAR

CARIBBEAN CLEAR WATER TREATMENT SYSTEM
MODEL 50-R FOR ALGAE CONTROL

Congratulations on your purchase of the Caribbean Clear Water Treatment System. Controlling algae in your pool is easy with the Caribbean Clear Water Treatment System, but a few simple steps must be followed, so please read this manual before using your Caribbean Clear Water Treatment System.

The Caribbean Clear Water Treatment System is an algicide producing product. Algae growth is controlled by copper which is introduced through the process of electrolysis.

WARNING:

Staining of pool surfaces may occur due to deposits of copper salts in contact with a chlorine oxidizer. Excessive levels of copper will increase the probability of this occurrence.

Do not add undissolved granular chlorine directly to the water.

Do not maintain the pH above 7.4.

Do not allow the copper level to exceed 0.2 ppm.

Refer to specific operating procedures in this manual for further information.

All copper based algaecides have the potential to create stains. Chemicals, which quickly and efficiently remove stains, are now available as a result of new chemical refinements for the swimming pool industry. Liquid copper algaecides have traditionally been a cause of staining, since high copper concentrations are suddenly added to the water, with little time for mixing. By maintaining a balanced pool, and using Caribbean Clear's proprietary techniques, the Caribbean Clear system will provide the benefits of a copper algaecide without the increased risk of staining caused by locally excessive concentrations. Therefore, the possibility of staining is virtually eliminated. If you begin to notice very faint green, blue, or gray shadows on your pool surface, contact your Caribbean Clear dealer for diagnosis and assistance.

MAINTAIN THE pH BETWEEN 7.2 AND 7.4

The most important aspect of healthy and attractive water, is maintaining the proper pH. If the pH is allowed to rise above 7.4, the calcium, copper, and other dissolved minerals begin to fall out of solution. This could cause scaling, staining, or cloudy water. If your water test indicates an excessive acid demand, it is best to add the acid bi-weekly rather than to add large quantities of acid at one time. Always use an acid demand test kit to determine the correct amount of acid required. The pH should be maintained below 7.4. This means that acid should be added when the pH reaches 7.4. Do not wait for the pH to reach 7.8 before adding acid. A little extra effort used in maintaining the pH will be well rewarded.

Do not allow the pH to fall below 7.0 A pH below 7.0 is acidic. Water at a low pH will etch heaters, plumbing, pumps, and even your pool wall if it is made of a concrete compound.

MAINTAIN THE COPPER LEVEL BETWEEN 0.15 AND 0.20 PPM

After the unit is installed, turn the unit up to the highest setting and check the copper every day until the proper level is reached. Caribbean Clear recommends a level of 0.15 to 0.20 ppm. This is easily tested by the copper test kit provided. The copper level will be in the correct range when 3 or 4 drops of the number 2 Color Reagent match the treated sample. Full instructions for the use of the test kit are provided with the test kit. Refills for this kit are available from your Caribbean Clear Dealer.

When the copper test shows a copper level of 0.20 ppm, turn the unit to a lower setting, either position 3 or a setting recommended by your dealer. Check the copper every other day and continue to adjust the control knob accordingly. If the copper level appears to fall, increase the output by turning the knob to the next higher setting, or the next lower setting if the copper level rises.

Once the copper level appears to be balanced, only a weekly check of the copper level will be necessary.

If at any time the copper level reaches 0.25 ppm, turn the control knob to "zero" and allow the copper to drop to 0.20 ppm before readjusting the unit.

MAINTAIN A CHLORINE RESIDUAL

Maintain a chlorine residual in your water as you normally would, to ensure proper water sanitization. You will quickly determine that the necessary amount of chlorine to maintain this level will be reduced due to the Caribbean Clear Water Treatment System.

OXIDATION

You may already be using a non-chlorine oxidizer to remove body oils, suntan lotion, other organic debris, and chloramines from the water. The most common form of non-chlorine oxidizer is potassium monopersulfate. Proper oxidation is necessary to give your water a clean and sparkling appearance. A non-chlorine oxidizer will actually enhance the effectiveness of the Caribbean Clear Water Treatment System. Be sure to follow the label instructions for the oxidizer that you use.

CONTINUE YOUR BASIC POOL CARE

Your basic pool care should continue as usual. This should include proper filter care and cleaning, vacuuming, and in addition to the chemicals mentioned above, maintenance of chemicals necessary for a proper water balance.

These chemicals necessary for a proper water balance should not be overlooked, as they are an integral part in maintaining water quality and are just as important as pH and chlorine. Any questions about your water balance may be answered by your Caribbean Clear dealer.

THE LCD DISPLAY OF ION

The display indicates "ION," the amount of current, in amps, which is flowing between the electrodes. This reading should not be confused with the copper level, which can only be measured using the test kit. The "ION" display will provide you with useful information about the performance of the unit. In addition, arrows indicate current flow direction and should alternate every few minutes.

Once you have found the ideal setting of the control knob for your pool, make note of the "ION" reading. This will be the normal amount of current required to maintain the copper level in your pool. After the Caribbean Clear Water Treatment System has been in operation for a few months, and depending upon water conditions, you may notice that you are unable to maintain your ideal "ION" setting even at the highest output setting. This is an indication that the electrodes should be inspected, cleaned, or replaced as necessary. The second function the "ION" display performs, is to show you that the unit is functioning correctly. If the display is blank or the "ION" reading is zero, contact your Caribbean Clear dealer for assistance.

ELECTRODE CLEANING AND REPLACEMENT

Electrodes will last one season or longer depending on the water volume, weather, bather load, etc. Over a period of time you may notice that the maximum ion current of the unit has slowly dropped. This means that the LCD display will no longer indicate the usual current on your normal setting. When the display begins to show a decrease of about 10 to 20%, it is time to inspect the electrodes.

Turn off the power to the Caribbean Clear Water Treatment System and unscrew the electrode assembly. Clean the electrodes by scraping with a knife and then rinsing in a 50% muriatic acid solution. Replace the electrode assembly using six or seven full wraps of teflon tape. Never use glue to secure the assembly. Be sure the electrodes are aligned so that the water will flow between them. Now restart the system. If the "ION" current is still too low, you will need to replace the electrodes. If the "ION" current is now the same as usual, the electrodes only needed cleaning.

The electrodes will normally wear to the size of a pencil, however, water conditions and usage will govern the actual point of non performance.

WINTER

If you are treating water which is located outdoors, the colder weather will reduce the algae growth and thus the demand for copper. You will need to adjust the unit to lower settings as the weather turns colder to compensate for this decrease in demand. You should follow the normal procedures for winter pool care in your area, however, the use of algicides, and metal treatments will not be necessary.

HOW TO SOLVE SPECIAL WATER QUALITY PROBLEMS

What if the water is cloudy?

The most important factors in maintaining clear water are proper circulation and adequate filtration. Be sure the filter is cleaned properly and, if necessary, increase the filtration time. Be sure that the majority of water is being pulled from the bottom drain if you have one. If you have a sand filter, remember that the sand should be changed every two years.

Water which does not have the proper balance of available chlorine, pH, total alkalinity, and calcium hardness may also be cloudy. Check with your Caribbean Clear dealer for help in balancing your water.

An additional amount of chlorine or oxidizer may be necessary to remove any organic debris in the water. Remember, a properly operating filter should remove this organic material.

Clarifiers may be added if necessary.

What if the water has a clear green tint?

Generally water which is out of balance will cause sunlight to reflect differently and may produce a clear green tint. This can be caused by high copper levels or low total alkalinity. Check the copper level and balance the pool water if necessary. After the water is balanced, a small addition of chlorine will correct the problem. Do not add undissolved granular chlorine.

What if the water has algae?

Algae will produce a cloudy green tint. Be sure your copper level is between 0.15 and 0.20 ppm. Brush the walls and bottom and add additional chlorine to remove the algae. Remember, never shock with granular chlorine. If you are constantly plagued with algae growth, contact your Caribbean Clear dealer for further water testing to determine if contaminants such as nitrates are the reason for this problem.

Contact your Caribbean Clear Dealer or the factory if you have any further questions.

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This model is designed for residential pools not exceeding 190,000 liters.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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