

## **Label (Replacement Cell)**

# **Genieye EYE-NIZER**

REPLACEMENT CELL

DOMESTIC

Replacement electrode for the copper ions releasing device (Genieye Eye-Nizer)

REGISTRATION NO. 29581 PEST CONTROL PRODUCTS ACT

This cell must only be used on this model of  
Copper ionization device.

***READ THE LABEL AND OPERATING MANUAL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN***

**Genieye Systems Inc., 743 Barton Street  
Stoney Creek, Ontario, Canada L8E 5L7  
1-905-469-2689**

**Label (Device)**

**Genieye EYE-NIZER**

COPPER IONS RELEASING DEVICE

CONTROLS ALGAE

IN

SWIMMING POOL WATERS

DOMESTIC

A maximum of 100 000 L of water can be treated with the Genieye EYE-NIZER

**WARNING:** Staining of pool surfaces may occur due to deposit of copper salts.  
Excessive levels of copper will increase the probability of this occurrence.

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REGISTRATION NUMBER 29581 PEST CONTROL PRODUCTS ACT

**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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# PRODUCT MANUAL

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# INTRODUCTION

Thank you for purchasing the Genieye Eye-Nizer water treatment system. This system will allow you to swim in a minimum of chlorine (always maintain 0.6-3 ppm of free available chlorine). However, the basic swimming pool maintenance is not to be neglected.

The Genieye Eye-Nizer system helps prevent algae growth.

## **IMPORTANT SAFETY INSTRUCTIONS**

When installing and using this electrical equipment, basic safety precautions should always be followed.

### **READ THE LABEL AND GUIDE BEFORE USING. FOLLOW ALL INSTRUCTIONS.**

WARNING-To reduce the risk of injury, do not permit children to operate this device.

WARNING - Risk of electric shock. Connect only to 110 VAC grounding type receptacle protected by a Ground Fault Circuit Interrupter (GFCI). Contact a qualified electrician for installation or if you cannot verify that the receptacle to be used is protected by a GFCI.

WARNING - DO NOT bury cord. Locate system and cord to minimize damage from lawnmowers, trimmers and other equipment.

WARNING -To reduce the risk of electric shock, replace any damaged cords immediately.

WARNING - To reduce the risk of electric shock, do not use extension cords. Connect only to a properly installed and located electrical outlet.

WARNING - Do not sprinkle granular chlorine into the water because it may remain undissolved and settle on the bottom of the pool which can cause black stains.

WARNING - Do not add any pool chemicals directly to the skimmer because this may damage the unit.

WARNING - Use a chlorine sanitizer to maintain an appropriate residual level in the water.

Follow all aspects of local and National Electrical Code(s) when installing the Genieye Eye-Nizer System.

Save these instructions.

Refer problems to qualified personnel.

Do not attempt to dismantle or repair the system or the unit.

No user serviceable parts.

Warranty void if the unit is tampered with.

# OPERATION

## **SYSTEM START-UP**

1. Turn on the pool pump.
2. Test the pool water and make sure the water is properly balanced and sanitized. Test the pool water with the copper test kit to see if there is copper already present in the pool. Check the expiry date of the test kit as results may be inaccurate if used after the expiry date.
3. The Genieye Eye-Nizer controller output can service a swimming pool. On initial power up it is defaulted to 'POOL' mode for a maximum output for 15 days. The red LED will indicate that it is in 'POOL' mode. The 'OXIDIZNG' LED will turn GREEN once ionization is occurring.
4. Once the initial 15 day (POOL) is completed – the unit will automatically default to a 50% power output. Perform a copper test using the copper test kit. Repeat the copper test until the reading is between 0.2 – 0.25 ppm (parts per million).
5. Once the copper reading is between 0.2-0.3 ppm, set the dial on the control box to 1 or 2 bars on the LED bar and monitor weekly thereafter.
6. Do not over ionize your pool. When the copper ion level reaches 0.3 ppm, turn the control down and adjust as necessary to maintain 0.3 ppm. If the ion level reaches 0.5 ppm turn the ionizer off until the level drops to 0.3 ppm.
7. Perform proper tests weekly.

## **BASIC MAINTENANCE**

1. Keep the pH level between 7.2 and 7.8.
2. Keep the copper level between 0.2 and 0.4 ppm.
3. Keep the total alkalinity between 100 - 120 ppm.
4. Keep Total Dissolved Solids (TDS) between 500 and 2000 ppm.
5. Keep the calcium hardness between 200 - 300 ppm.
6. To keep the water clear and to control bacteria, use 0.6-3 ppm of chlorine every day and a shock treatment of chlorine as needed, according to the number of swimmers.
7. The life expectancy of the electrodes is approximately 8500 hours each, depending on the overall usage. A warning light on the control box will let you know if the electrodes need to be replaced.
8. Maintain 1-3 ppm of free available chlorine until the copper concentration reaches 0.2-0.4 ppm. Once this level of copper is reached, maintain 0.6-3 ppm of free available chlorine.

***(These pool water parameters are to be respected in order to ensure Warranty coverage)***

### **IMPORTANT**

Before operating your Genieye Eye-Nizer System, determine the copper concentration already in the swimming pool water by using a copper test kit. Check the expiry date of the test kit as the results may be inaccurate if the kit is used after the expiry date. If copper is found in the water, this means that either the water heater, the source of the water, or the copper piping is adding copper to the water. Empty the pool halfway and fill it up again with fresh water. Excess levels of copper may cause staining of pool surfaces.



# CLEANING

Depending on the size of the swimming pool, the water temperature, the duration of the swimming season, and the general maintenance and treatment of the pool, the life expectancy of the electrodes may be approximately 8500 hours. Sometimes deposits may have a tendency to form on the electrodes depending on the water conditions. Cleaning of the electrodes will remove oxidation. Do not confuse this unusual deposit with the green sediment which usually forms on electrodes. These can also be removed if they become too heavy.

## **CLEANING METHODS**

1. Unplug the swimming pool filtration system.
2. Unplug the Genieye Eye-Nizer System.
3. Empty the water pipe between the pump and the Genieye Eye-Nizer System by removing the pump cover which will cause the water to drain from the pipe.
4. Unscrew the two bolts that hold down the electrical wire from the electrodes and disconnect the wires.
5. Unscrew the plug of the electrode unit. Clean the flat face of the electrodes by using a smooth file and some water. The surface does not need to be "polished"; simply remove any traces of oxidation and any other sediment.
6. Remove the old Teflon tape. Use new tape and wrap around six times. Screw the plug back in. Make sure the electrodes are aligned properly in order to ensure a free flow of water. Place the plug in such a manner as to allow the water to circulate between the two bolts which hold the electrodes. Never use glue to attach the plug.

# INSTALLATION

The Genieye Eye-Nizer water treatment system is easy to use and to install. It can work with 110 volts or 220 volts. The Genieye Eye-Nizer is only suitable for indoor mounting.

Please follow these installation instructions carefully.

1. Unplug the filtering system.
2. Empty the water pipe between the pump and the filter by removing the cover of the pump. This will cause the water to drain from the pipe.
3. Cut out a section of the water-supply pipe between the pump and the filter.
4. Replace the removed section of the pipe with the T-pipe of the Genieye Eye-Nizer device.
5. Make sure that the electrodes are vertical in order to allow for maximum contact with the water flow; this also helps to prevent dirt build-up and air pocket formation around the electrodes. (Place the plug in such a manner as to allow the water to effectively circulate between the two bolts which hold the electrode bars).
6. Plug in the device's electrical cord
7. Plug in the filtering system
8. When replacing the electrodes, only use replacement electrodes that are labeled with the copper Genieye Eye-Nizer Registration Number 29581, under the *Pest Control Products Act*. In order to achieve an even wear of the electrodes, the system is programmed to alternate the direction of the current between the electrodes approximately every five minutes.

## **VERIFICATION OF THE COPPER CONCENTRATION**

Copper levels in the pool water should be monitored using a copper test kit. Follow the instructions provided in the test kit. Check the expiry date of the test kit as the results may be inaccurate if the kit is used after the expiry date.

## **GENIEYE EYE-NIZER WINTERIZING**

The colder weather will reduce the algae growth, thus reducing the demand for copper. You will need to adjust the unit to a lower setting 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. If you reside in regions where you must shut off your pool because of colder temperatures, the residual copper ions will keep the water clean and clear during the winter. However, if leaves or other debris fall in the water and algae starts to form, it will be necessary to add chlorine and a winter treatment kit.

If you reside in a region where there is winter frost, there are certain preventive measures which must be taken to avoid damaging your Genieye Eye-Nizer System. You must unplug and uninstall the Genieye Eye-Nizer system from your pool. The water inside the device must be drained and the device must be stored in a warm place.

### **NOTICE TO USER**

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# LIMITED WARRANTY

This "Limited Warranty" covers defects in materials and workmanship of your Genieye Eye-Nizer System.

The "Limited Warranty" does not cover:

1. Problems that result from
  - External causes such as accident, abuse, misuse, or problems with electrical power or plumbing systems.
  - Usage that is not in accordance with product instructions.
  - Failure to follow the product instructions or failure to perform maintenance in accordance with maintenance instructions.
2. Products with missing or altered serial number tags.
3. Products for which Genieye Systems Inc. has not received payment.
4. Products that have not been installed in accordance with federal, provincial or municipal codes and ordinances.
5. Customer installation costs or set-up.
6. Products that have been physically altered in any way.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS LIMITED WARRANTY OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES OR FOR PRODUCTS NOT BEING AVAILABLE FOR USE. OUR LIABILITY WILL BE NO MORE THAN THE AMOUNT PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. THIS IS THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE.

During the period of one (1) year from the date of purchase, Genieye Systems Inc. will repair or replace the product or any of its parts that are returned to us, that prove to be defective in materials or workmanship. If we are not able to repair the product, we will replace it with a comparable product that is new or refurbished. When you contact us, we will issue a Return Material Authorization Number for you to include with your return. You must return the products to us in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged during shipment. We will return the repaired or replacement products to you. We will pay to ship the repaired or replaced products to you if you use an

address in Canada or in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the product to you via freight collect.

If we determine that the issue is not covered under this warranty, we will notify you of the cost of repair or replacement.

To make a claim, send the device to the following address, and include the nature of the malfunction(s):

WARRANTY CARD  
PLEASE RETURN BY MAIL TO:

Genieye Systems Inc.,  
743 Barton Street  
Stoney Creek, Ontario, Canada L8E 5L7  
Tel.: 1-905-469-2689  
Fax: 1-905-469-0293  
[www.genieye.com](http://www.genieye.com)

# PRE-INSTALLATION WATER ANALYSIS

## GENIEYE EYE-NIZER

| CHLORINE<br>(ppm) | pH<br>(ppm) | ALKALINITY<br>(ppm) | COPPER<br>(ppm) | HARDNESS<br>(ppm) |
|-------------------|-------------|---------------------|-----------------|-------------------|
|                   |             |                     |                 |                   |

INSTALLER NAME: \_\_\_\_\_

INSTALLER ADDRESS: \_\_\_\_\_  
(Street Number and Name)

\_\_\_\_\_  
(City) (Province/State) (Postal/Zip Code)

OWNER NAME: \_\_\_\_\_

OWNER ADDRESS: \_\_\_\_\_  
(Street Number and Name)

\_\_\_\_\_  
(City) (Province/State) (Postal/Zip Code)

DATE OF PURCHASE: \_\_\_\_\_  
(mm/dd/yyyy)

SERIAL NUMBER: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

# TROUBLESHOOTING GUIDE

Please read this guide ***before*** calling your dealer or the manufacturer.

| PROBLEM                               | CAUSE                             | SOLUTION  |
|---------------------------------------|-----------------------------------|---|
| 1. Low copper level                   | Output control setting is too low | Increase output control setting.  |
|                                       | Insufficient oxidizer shocks      | Shock water with oxidizer and test for at least 5 ppm after 30 minutes.   |
|                                       | Insufficient pump run time        | Pump should run at least 8 hours every day.   |
|                                       | Depleted electrodes               | Check electrodes for wear; if depleted they need to be replaced.  |
|                                       | Equipment failure                 | Check RED POWER light. Green light should be blinking when oxidizing is occurring.                                  |
| 2. High copper level                  | Output control setting too high   | Set control to '1' until copper level is below 0.3 ppm. This may take a few weeks.                                  |
| 3. Cloudy Water                       | Insufficient oxidizer shocks      | Shock water with chlorine and test for at least 5 ppm after 30 minutes. Shock as soon as the water begins to cloud. |
|                                       | Insufficient pump run time        | Pump should run at least 8 hours every day.   |
|                                       | Dirty filter                      | Check and clean filter.   |
|                                       | Low copper level                  | See problem and solution # 1 above.   |
| 4. Algae in water or on pool surfaces | Low copper level                  | See problem and solution # 1 above.   |
|                                       | Insufficient oxidizer shocks      | See problem and solution # 3 above.   |



|  |  |  |
|--|--|--|
| Algae in water or on pool surfaces - Continued | Need to treat water for algae  | Treat water with a non-copper based algaecide, and shock water with chlorine daily until all algae is gone.      |
| 5. POWER light not illuminated                 | <p>No AC power</p> <p>Shorted electrodes</p> <p>Controller failure</p> | <p>Check incoming AC power.</p> <p>Clean and check electrodes for a short.</p> <p>Contact dealer for repair.</p> |

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