

2017-4587  
2018-12-27

Device label :

*PURIFITEC, LP60*

*COPPER IONS RELEASING DEVICE*

*ALGAE CONTROL FOR : pool water (or spa) (Domestic Use)*

*A maximum of 250 000L of water can be treated with a PURIFITEC LP60 unit*

*WARNING : Deposits of copper salts may stain pool and spa surface.*

*Excessive copper concentration will increase this risk.*

*READ THE LABEL AND MANUAL BEFORE USING*

*KEEP OUT OF REACH OF CHILDREN*

*Registration Number: 33304 PEST CONTROL PRODUCTS ACT*

*PURIFITECH, CP 85084, 345 boulevard Laurier,*

*Mont St-Hilaire, QC, J3H 5W1*

*514-316-0118*

Replacement cell / cartridge / electrode label :

*PURIFITEC CELL : CELL60*

*Replacement electrode for copper ionizer PURIFITEC LP60*

*REGISTRATION NUMBER 33304, PEST CONTROL PRODUCTS ACT.*

*This cell should only be used with this model of copper ionizer.*

*Read the label, user's manual and copper ionizer user's manual (PURIFITEC LP60) before using*

*PURIFITECH, CP 85084, 345 boulevard Laurier*

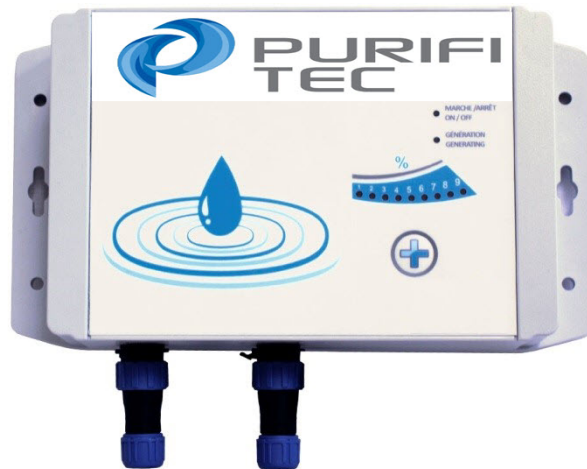
*Mont St Hilaire, QC, J3H 5W1*

# PURIFITEC

**ELECTRONIC COPPER IONIZER  
HELPS PREVENT ALGAE GROWTH**

**ENGLISH INSTRUCTION BOOKLET  
RETAIN FOR FUTURE REFERENCE  
DOMESTIC USAGE**

READ THE LABEL AND THE INSTRUCTION BOOKLET BEFORE USING  
REGISTRATION NUMBER 33304 PEST CONTROL PRODUCTS ACT



Warning: staining of pool surfaces may occur due to deposits of copper salts.  
Excessive levels of copper will increase the probability of this occurrence.

PURIFI TECH  
CP 85084  
345 Boulevard Laurier  
Mont-St-Hilaire, QC, J3H 5W1

# **INTRODUCTION**

You are now the owner of a **PURIFITEC** system that will allow you to save substantially on chlorine while preventing algae growth.

The following parameters must be maintained at all times.

<b>FREE AVAILABLE CHLORINE</b>	1 – 3 PPM
<b>pH</b>	7.2 – 7.6
<b>TOTAL ALKALINITY</b>	80 – 120 PPM
<b>CALCIUM HARDNESS</b>	200 – 300 PPM

If you cannot test these parameters yourself, we recommend going to a specialized pool centre.

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# SAFETY INSTRUCTIONS

## IMPORTANT SAFETY MEASURES

When installing and using this electrical equipment, always follow basic safety precautions, including the following:

- READ THE LABEL AND THE INSTRUCTION BOOKLET BEFORE USING.
- WARNING – To reduce the risk of injury, at all times, do not let children use this product without supervision.
- WARNING – To reduce the risk of injury, do not permit children to operate this device.
- Follow all aspects of the local and Canadian Electrical Code(s) when installing this device.
- When replacing the electrode, only use replacement electrodes having a label that clearly states that it is a replacement electrode for the copper ion releasing device Purifitec, REGISTRATION NUMBER 33304, *PEST CONTROL PRODUCTS ACT*
- Refer to the Directions for use of your chlorine/bromine sanitizer for appropriate water parameters.
- WARNING – Risk of electric shocks. The housing is supplied with 12V via a wall adapter.
- WARNING – Do not bury electric cord. Position the system to minimize damage from lawnmowers, trimmers and other equipment.
- WARNING – To reduce the risk of shock, do not use damaged extension cords. Connect only to a properly installed and located electrical outlet.
- WARNING – Do not add granulated chlorine (calcium hypochlorite) directly in the skimmer because the product could damage the ionization cell.
  - The presence of a large number of bathers may require the addition of additional chlorine / bromine in order to maintain residuals of chlorine / bromine in water.

## SAVE THESE INSTRUCTIONS

Consult a qualified technician for all problems. Do not attempt to dismantle or repair. The warranty will be void if these instructions are not respected.

# THE IONIZER ADVANTAGES

- **Accelerated depreciation** due to low operation costs: save on water consumption and on treatment products (chlorine, cyanuric acid, general corrosion).
- **Enhances and concentrates chlorine disinfection.**
- **Destroys and eliminates deposit of bacteria** in the filter.
- **Acts as a flocculent:** no need to add any.
- **Very good active life in water:** longer life cycle for copper particles.
- **Crystal-clear water, no taste, or irritation.**

## INSTALLATION

The **PURIFITEC** ionizer system is simple to install and to use. The housing operates on 12V. The system is weather resistant; therefore, it can be placed either inside or outside.

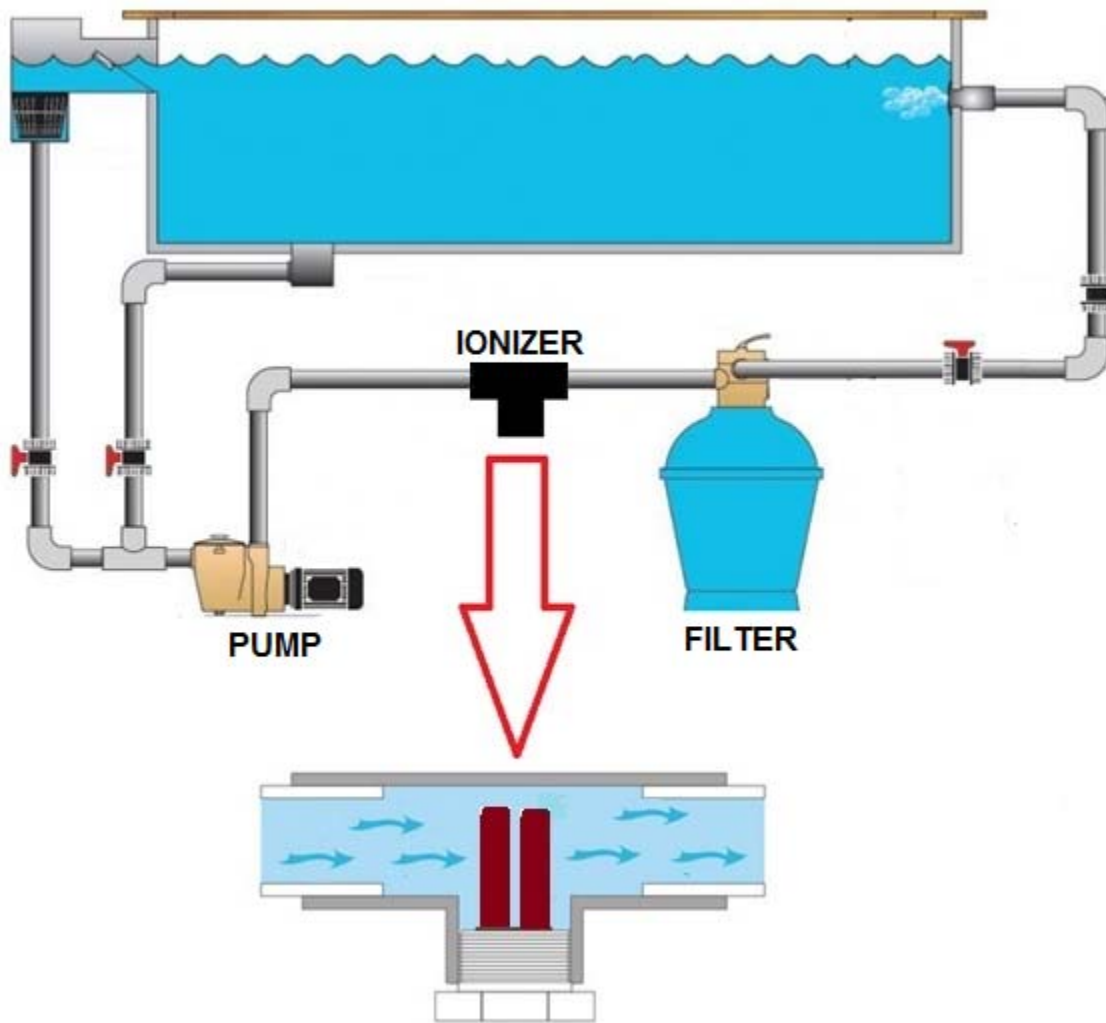
Please follow these installation instructions:

*\*\* You must determine if you need plumbing or glue before installation.*

1. Unplug the filtering system.
2. Empty the water pipe between the pump and the filter by removing the pump cover causing the water to drain.
3. Cut a section of the water-supply pipe between the pump and the filter.
4. Replace this part by the ionization cell's T included in the box. See Image 1.1.

5. Make sure the electrodes are vertical in order to avoid dirt formation or air pockets around the electrodes. Place the plug in such a manner as to allow the water to circulate between the two bolts which hold the electrodes.
6. Plug in the device's electrical cord.
7. Plug in the filtering system.

## IMAGE 1.1



*Please note that the ionization cell can easily be installed before or after the filter. In above diagram, the cell is installed before the filter.*

# **START UP**

**PURIFITEC** automatically supplies the necessary amount of copper ions in water. The copper ions destroy algae, while the residual 1 ppm of free available chlorine eliminates bacteria usually found in swimming pool.

You control the electric flow which circulates between the electrodes by a 9-position control box. Intensity level (1) indicates the lowest copper and silver transfer level in water. Intensity level (9) indicates the highest. The electric current depends on the water conductivity. Level (0) shows no lights on and stops the ionization cell's production.

## **START UP**

\*\*\* To activate the intensities, just press down the (+) button for 3 seconds.

1. It will take from 8 to 10 days for the copper concentration to reach the recommended level, between 0.2 and 0.4 ppm when the system is set at its maximal intensity at position (9). Check copper level with test strips included in the box. Also check the free available chlorine level daily to assure it's between 1 and 3 ppm. pH level should be between 7.2 and 7.6.
2. Once the copper concentration has reached the desired level, set device level at (2).
3. For the following weeks, copper concentration should be maintained between 0.2 and 0.4 ppm, starting at position (2) or according to the copper test results. Always maintain 1 to 3 ppm of free available chlorine once the desired concentration of copper is reached.

Should the copper concentration level exceed 0.4 ppm, adjust the power flow to a lower setting.

If all lights are flashing at once, it means that your electrode is dirty or has completed its life cycle. You must either clean it or change it.



# **BASIC MAINTENANCE**

1. Maintain pH between 7.2 and 7.6.
2. Maintain copper between 0.2 and 0.4 ppm.
3. Maintain Total Alkalinity between 80 and 120 ppm.
4. Maintain Calcium Hardness between 200 and 300 ppm.
5. Maintain Free Available Chlorine between 1 and 3 ppm.
6. Maintain a combined chlorine level under 0.2 ppm by using a non-chlorinated shock treatment.

These parameters must be respected in order to ensure the 2-year warranty coverage.

## **VERY IMPORTANT**

Use the enclosed test strips to determine copper concentration in the water before operating the **PURIFITEC** system.

If copper is already present in your swimming pool water before activating the **PURIFITEC** system, it means there is an external source of copper in the water.

- Do you have a pool heater with a copper heating element? If the answer is YES, then the element might be breaking down.

# **CLEANING**

Electrodes have a life expectancy of about 3 complete swimming seasons. Various factors such as size of swimming pool, length of swimming season, the quality of the device's maintenance and the water parameters will affect the life expectancy of the electrodes.

Cleaning the electrodes will eliminate oxidation. Deposits sometimes have a tendency to form on the electrodes depending on the water conditions. It is not the green sediment which usually forms on electrodes and which can be removed if it becomes too substantial.

# CLEANING METHOD

1. Disconnect the power to the device before cleaning or replacing the electrodes.
2. Unplug the swimming pool's pump system.
3. Unplug the **PURIFITEC** device.
4. Empty the water pipe between the pump and **PURIFITEC** by removing the pump cover causing the water to drain.
5. Unscrew and disconnect the cell's connector.
6. Unscrew the plug of the ionization cell. Clean the flat face of the electrodes using a smooth file and some water. The surface does not need to be polished, simply remove any traces of oxidation and other sediments.
7. Remove the old Teflon tape, use new tape and wrap it around 6 times. Screw the plug back in. Make sure the electrodes are aligned in order for water to flow freely. Place the plug in such a manner as to allow the water to circulate between the bolts.

NEVER USE GLUE TO ATTACH THE PLUG

## **VERIFICATION OF COPPER CONCENTRATION, CHLORINE AND PH**

The copper and pH levels can be tested using the test strips included in the box. The chlorine level should be tested with test strips designed to test free available chlorine and not total chlorine.

# WINTERIZING OF PURIFITEC

When the temperature outside drops, the swimming pool requires less maintenance. The pH level will not vary as much in fall as in summer. Check the pH at least once every two weeks. When it's colder, once every month is sufficient. pH level should be kept between 7.2 and 7.6. During cold period, the total alkalinity level should be kept between 80 and 120 ppm. Keep adding an oxidant/disinfectant to your pool in order to maintain residual chlorine level between 1 and 3 ppm. Maintain copper concentration level between 0.2 and 0.4ppm.

If you reside in a region where you must shut off your pool because of cold temperatures, the residual copper and silver will keep the water clear and sparkling during winter. However, if leaves or other dirt fall in the water and algae start to form, you will need to add chlorine and use a winter closing kit that you will find at your local dealer.

If you reside in a region where there is frost, certain preventive measures must be taken to avoid damaging your **PURIFITEC** system. You must unplug and remove your system from its installation (control box and electrodes) and store in a warm place.

## WARRANTY

The **PURIFITEC** water treatment system has a 2-year limited warranty against all manufacturing defects. The device will be repaired or replaced at no charge at our head office and this, within the first fifteen work days following the claim. This warranty is in effect starting the date of purchase and is only applicable with the purchase invoice.

The warranty does not cover damages caused by lightning, abuse, inappropriate installation of the device, frost or lack of maintenance. The warranty does not cover stains which form on surfaces or at bottom of the pool due to lack of maintenance.

To make a claim, send the device to the address where purchased, indicating the detailed nature of its malfunction.

