



## **SOLAR POWERED POOL IONIZER**

**ITEM # 90120**



## **OWNER'S MANUAL AND SAFETY INSTRUCTIONS**

**SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER**

**FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.0880**

# SOLAR IONIZER INFORMATION

## **What is the solar ionizer?**

Ionization is the disintegration of matter, atom by atom. This process occurs in nature at all levels and is how the water acquires a small amount of minerals for the preservation of its purity. Water purification by ionization has been practiced for thousands of years. The accumulation of water in containers made of copper and silver allows it to maintain freshness and clarity while avoiding the growth of algae and bacteria. However, if you incorporate some pieces of copper and silver in your swimming pool, it could take a long time to reach an effective concentration of these elements. With our water ionizer, a small charge of electricity supplied by the control panel, energizes the electrodes, accelerating the electro-chemical reaction.

## **How does a solar ionizer work?**

The instant the atoms of the electrodes of copper-silver or silver-copper-zinc, are ionized, they will disseminate in the water. These ions exert a lethal effect on microscopic life forms. Experiments at the University of Arizona have demonstrated that the mineral ions, together with a small amount of chlorine (0.2-0.4ppm), are 1,000 times more effective method of preventing algae and bacteria. Once these minerals are dissolved in the water, they remain for extended periods of time. As the salt in the oceans, the ions do not evaporate even in extreme conditions and intense heat. Contrarily, the chlorine is a very light element that tends to evaporate easily, especially in warm climates.

## **Are the minerals incorporated in the ionizer safe?**

Not only are they safe, but they are recognized as essential minerals for the human body. The concentrations obtained typically correspond to that is permitted by "the Environmental Protection Agency" for potable water. Our ionizers are also perfect as a control measure for algae and bacteria in pools with fish because they are non-toxic.

## **How long does the ionizer work in the normal conditions?**

Our equipment are designed to last as long as your swimming pool. The control panels are not affected by the use of an ionizer. The electrodes can be replaced as often as necessary throughout the years.

## **Is a requirement that our ionizers remain active at all time?**

It is not necessary, nor desirable because it would be needlessly wearing down the electrodes. The solar ionizer is allowed to float every day, the first weeks, with the objective to obtain the concentration of ions and then a couple days for weeks to maintain the appropriate level of ions. If the pool is large, or if due to the weather conditions, it is a recommended addition to water due to the evaporation. It is necessary to keep the ionizer in the water permanently. Swimming with the solar ionizer is perfectly safe.

# SOLAR IONIZER INFORMATION

Advantage of the Solar Ionizers versus chlorine:

	Chlorine	Ionizer
Is it harmful for the eyes?	Y	N
Does it irritate the skin?	Y	N
Does it discolor or burn swimwear?	Y	N
Is it linked to cancer?	Y	N
Does it form trihalomethanes-carcinogens?	Y	N
Is it toxic for the lungs?	Y	N
Is it absorbed through the skin?	Y	N
Does it produce benzene in pvc pipes?	Y	N
Does it have a strong smell?	Y	N
Is it harmful for the environment?	Y	N
Is storage and handling dangerous?	Y	N
Does it evaporate?	Y	N
Is it corrosive for equipment and accessories?	Y	N
Does it destroy the stucco in a pool?	Y	N
Does it affect the paint in a pool?	Y	N
Does it require cyanuric acid to stabilize?	Y	N
Does it destroy algae?	Y	Y
Does it destroy bacteria?	Y	Y
Does it kill viruses?	N	Y

Using the Solar Ionizer:

**Step 1.** Verify that the pool conditions are good.



**Step 2.** Introduce the solar pool ionizer into the pool.



**Step 3.** Confirm the Ionizer is floating in the pool.



**Step 4.** After 12 hours, activate the cleaning system of the pool. After 24 hours, confirm the Ionizer is working according to the specifications.



**Step 5.** Remove every 15 days and do a cleaning of the electrode with the brush included. Check the copper level weekly, if in excess 0.9 ppm, take it out of the pool, or the water will turn cloudy and green. And put it back to the pool when less than 0.4 ppm.



# DISCLAIMER

## PLEASE READ THE FOLLOWING CAREFULLY

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**Record Product's Serial Number Here:** \_\_\_\_\_

**Note: If product has no serial number, record month and year of purchase instead.**

**Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.**

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## Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



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**Hours of Operation:** 9am - 3pm PST Monday - Friday

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