Bullion Ionizer

Startup Guide

1) For your Bullion Ionizer to work properly, these steps must be taken *before* installation:

   i. Ensure *hardness, pH, and alkalinity and TDS* are within acceptable levels

2) Run the pump a minimum of 4 hours per day.

3) A residual of *0.6ppm* chlorine or bromine (equivalent to one to two 3" tablets every week or two) or alternative non-toxic oxidizer should be maintained to break down organics (sweat, hair, urine, make-up, sunscreen, etc.)

***For Best Results it is Recommended to use NST Prime Tablets. Prolonged use of standard stabilized chlorine tablets can lead to a buildup of Cyanuric Acid, which can cause poor sanitation and Liner staining. ***

4) Keep your ion level between *0.2ppm – 0.4ppm*. Test your water with the Copper Test Kit periodically to ensure ion level is within this range. Do not reduce the amount of sanitizer used until the ion level reaches 0.2ppm.

5) Shock may be required in cases of extreme weather conditions or increased bather loads resulting in high contaminants.

6) Do not plug the controller into a timer.

Please note these are only general guidelines. Every pool will require a different amount of sanitizer and ion output. This is based on pool size, bather load, and weather conditions.

Bullion Ionizer
Operating Guide

1. Power Up   Plug in the controller. The digital display should turn on.

2. Program   Press the "Maintain" button to set the ion cycle time.

           Follow the guidelines below based on the liters you are ionizing.

3. Optional   Press the "Increase" button to set the hours of large dose

           You may set from 1 to 99 hours. 24 hours will activate as the default setting. Follow the guidelines below. When the Increase cycle is finished, it will return to the previously set Maintain cycle.

Model CBI-350-18K (Max 18,000 gallons)

Liters	Gallons	Maintain	Increase
18,900	5,000	25	26
37,850	10,000	50	53
56,800	15,000	60	63
75,700	20,000	75	79
94,650	25,000	90	95

Model CBI-350-25K (Max 25,000 gallons)

Liters	Gallons	Ion/Action	Large Dose
18,900	5,000	18	19
37,850	10,000	32	40
56,800	15,000	55	58
75,700	20,000	72	75
94,650	25,000	90	95

Model CBI-350-40K (Max 40,000 gallons)

Liters	Gallons	Ion/Action	Large Dose
37,850	10,000	20	24
75,700	20,000	45	48
113,560	30,000	70	72
151,400	40,000	95	96

Please note these are only general guidelines. You will need to adjust the levels based on your copper test kit.

Based on the ion output, it will take approximately 4 days to attain the minimum copper residual of 0.2ppm and 9 days to attain the copper residual of 0.4ppm in the maximum gallon volume state on the label.

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Operating Guide

Mineral Action

> When the "Mineral Action" light is illuminated, it confirms the system is ionizing the water. To illuminate, the electrodes must be fully submersed in water, the more ions that are being released into the water, the faster the light will blink. The light will look solid at maximum dose.

Maintain

> This user defined setting represents the percentage of time in each hour the ionizer is on for. The suggested ion setting following in the operating guide chart.

Increase

> Press this button to release the maximum amount of ions for the number of hours you choose. There is a 24-hour default setting. The display will count down the amount of hours left. The system will return to the previously set "Maintain" setting when the large dose ends. Use this function at your discretion whenever a large increase in ions is required. You may choose to use this when the ionizer is first installed, upon re-filling or during large amount of rain or spillage.

⬇   This button will decrease the setting for Maintain or Increase hours.

⬆   This button will increase the setting for Maintain or Increase hours.

Program Lock

> This feature will lock the controller at the currently programmed settings. To lock the program, hold down the "UP" button and the "Down" button for 20 seconds, you will see "PL" (program lock) appear on the screen. To unlock, use the same process.