



Ionizer Pond Clarifier

Owners Manual



Anjon Manufacturing
1000 Liberty Industrial Dr.
O'Fallon, MO 63366
800-553-5605
www.anjonmfg.com

Anjon Ionizer Owner's Manual

Thank you for choosing the Anjon Ionizer, electronic Pond Clarifier. This low voltage water management systems controls organic growth and keeps you water garden or pondless water feature clean by introducing microscopic copper ions into the water. The ionized water is safe for plants and animals and promotes healthy living conditions in the water. Mineralized water treats organics and will not be affected by heat or sunlight, reducing the need of chemical water treatments.

Features

- Ionization technology eliminates unsightly water conditions.
- Safe for fish, plants, domestic and wide life animals.
- Reduces pond maintenance.
- LED control panel.
- Treats up to 25,000 gallons.
- 2 Year limited warranty.
- This technology has been used in pools for 20 years

Safety Information

- Read this manual completely before installing.
- DO NOT operate this product under any condition other than those for which it is intended. failure to do observe these instructions can lead to electrical shock, product failure or other problems.
- DO NOT immerse the Control Panel in water.
- To reduce the risk of electrical shock, connect to a 110 volt receptacle with a ground fault circuit interrupter (GCFI).

WARNING:

RISK OF ELECTRICAL SHOCK - THIS TRANSFORMER IS SUPPLIED WITH A GROUNDING CONDUCTOR AND GROUNDING TYPE ATTACHMENT PLUG. TO REDUCE THE RISK OF ELECTRICAL SHOCK CONNECT ONLY TO A PROPERLY GROUNDED, GROUNDING TYPE RECEPTACLE.

HIGH LEVELS OF COPPER CAN BE HARMFUL TO FISH. READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY

Before Installation

Large amounts of debris or organic loads will greatly reduce the effectiveness of your ionizer. For existing ponds, a "clean out" is recommended prior to operation. If excessive amounts of debris are present, it may take longer to increase the level of minerals in the water and reach the desired results. Test the water for pH and alkalinity before you start so that you have a base reading for comparison.

NOTE: For larger bodies of water it is recommended to have multiple outlets for the copper ions to evenly disperse. If you require more than one Ionizer, they should be installed and plumbed through a manifold to ensure that each unit releases the full amount of copper ions evenly.

Warranty

The Anjon Ionizer carries a two year limited warranty. This limited warranty is expressly for the original purchaser starting on the date stated on the original receipt. The following conditions may apply and may be changed by Anjon Manufacturing at their discretion. Please see <http://www.anjonmfg.com> for full warranty information.

- Anjon Manufacturing will replace parts found to be defective including, Control Panel, Flow Chamber and Transformer.
- The Probe/Electrodes are wearable parts and not covered under this warranty.
- Any cut or altered cable voids this warranty.
- Any mis-use or abuse of the product voids this warranty.

All warranty claims should be returned to the place of purchase. Please contact your distributor before returning. An RMA (Return Merchandise Authorization) number may be required as well as a copy of the original receipt.

Problem	Possible Cause	Possible Solution
Power Indicator will not illuminate (blue)	No power to the control panel	Inspect the 110 volt GFCI outlet and 12 volt A/C transformer power outlet
	Controller failure	Contact Dealer for repair/replacement
Ionization Indicator is flashing (green)	Debris lodged between the electrodes	Remove the electrodes by rotating counter clockwise. Inspect the electrodes and remove any debris.
	The Probe is not immersed in water	Check the water flow through the Flow Chamber and verify that the Chamber is full of water.
Ionization Indicator is flashing (green) while the display reads '00'	Control Panel cannot detect a connection to the Probe	Inspect the connection at the plug on the Probe and check for damage to the cable from the Control Panel
	Probe needs to be replaced	Remove the Probe by rotating counter clockwise. Inspect the Probe and verify that a replacement is needed. Install new Probe
Low copper level	Level of ionization set too low	Increase the level of ionization and monitor copper levels
	Copper ions are quickly consumed	It is not unusual for the test strips to show low copper levels after long periods of operation at "full" power. This is due to copper ions being consumed within the water feature as they break down organics.
High copper level	Level of ionization set too high	Reduce ionization to '01' on the Control Panel until the test results are below 0.3ppm. A partial water change will also aid in reducing copper levels.

Optimal Water Parameters:

The Anjon Ionizer works at its best when the water parameters are within the recommended limits. These parameters change during the season, especially if you experience excessive evaporation and require significant water to be added. A simple water change can help reset the water parameters.

- Total alkalinity 80-120ppm

NOTE: Copper becomes less effective the higher the alkalinity. If alkalinity reaches 200ppm, the copper ions will be in a dormant state.

Warning: Copper ions can be toxic to fish if the alkalinity is below 50ppm.

- pH 7.2 - 7.8

NOTE: pH can be affected by heavy amounts of debris.

Warning: copper ions can become toxic when pH is below 6.8.

With ideal water conditions it may take 7 days for every 2500 gallons of water for the copper ions to reach effective levels. Natural bacteria and algae water treatments, (Rescue Beneficial Bacterial, Rescue Rock Scrubber) can be added to control organics until the ions reach effective levels. Treatments for sludge removal (Rescue Sludge Remover) should be used on a regular basis in conjunction with the Ionizer.

Installation

1. Mount the Control Panel

Mount the Control Panel in the desired location; making sure the power cord reaches the GFCI outlet and the Probe cord reaches the desired location.

The Control Panel is weather-resistant, but in order to maximize the lifespan of your unit, we suggest mounting the panel above ground in a location protected from the elements.

2. Install the Flow Chamber

The Flow Chamber can be located in several areas within the water feature. The Flow Chamber is most effective when plumbed directly into the water circulation system. The probe can also be installed without the Flow Chamber by submerging it in a filter, such as a skimmer or waterfall filter or pump vault. Follow the step by step installation instructions for the method you select.

3. Flow Chamber Installed into Recirculating System

The Flow Chamber should be positioned after the water pump and in a region of the plumbing line that drains by gravity. This enables you to easily service the Probe and allows for winterizing. It is recommended to use a pre-filter, such as a skimmer, prior to the Flow Chamber in order to remove solids and debris that may interfere with the Probe. A small valve box may also be used for easy access during maintenance. Use Teflon tape or plumbers putty when connecting fittings.

- Install the Probe on the top of the Flow Chamber (Fig. 1)
- Hand tighten the Probe collar into position (Fig. 2)
- Make sure the Probe is in a vertical position with the Flow Chamber (Fig. 3)

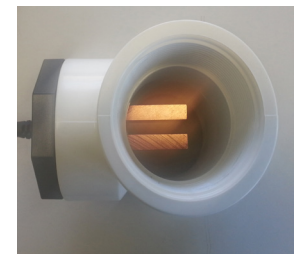
Fig. 1



Fig. 2



Fig. 3



5. Connecting Cables

- Plug in the cable on the right side of the Control Panel (Fig. 4) into the Probe making sure to tighten completely.
- Plug the cable on the left side of the Control Panel into the transformer. DO NOT plug in the transformer to the GFCI outlet until water is flowing through the system.

6. Setting the Ionizer Level

- Turn on the pump and then plug in the transformer to an external GFCI regulated electrical outlet.
- Adjusting the Level - Depress the “+” or “-” button for 3 seconds to enter the setting mode. Once in the setting mode the ionization level can be adjusted. The setting mode will exit automatically.
- Operating on a new water feature with good water quality and little to no debris - Set the Ionizer to level 1 or 2.

Fig. 4



Important:

Operate the Ionizer at a low level and only raise the ionization level if the water quality or build up of debris attached to rocks and gravel becomes worse. Maintaining the Ionizer on a low level will make sure the copper levels don't become too elevated, and also prolong the life of the Probe.

NOTE:

It is not unusual to have low, or even no copper level readings on the test kit, no matter how high the ionization level setting. This is due to the copper being used within the water feature. Periodic copper testing will ensure that the levels are below the maximum level of .25ppm.

When operating the Ionizer in an existing water feature with debris and/or poor water conditions. Set the Ionizer to the highest ionization level possible. In some water feature applications you may find that you are not able to raise the ionization level to the higher power setting (levels 7-10). This is typically due to the water chemistry of the water feature or the water flow rate across the Probe. Be patient as it may take several days to a few weeks for noticeable results.

Using the included copper test kit, test the water over a period of days to ensure that the copper levels do not rise above .25ppm. The ionization level can be lowered once the water conditions have improved or the copper test kit indicates a maximum level of .25ppm.

Maintenance and Winterization

It is recommended to shut down the Ionizer in regions that have climates that experience cold temperatures. Colder weather will naturally reduce organic growth and the need for copper ions. This will prevent elevated copper levels during this time of year and will also prolong the life of the Probe.

During normal operation, the power indicator on the Control Panel will illuminate solid blue and the ionization indicator will illuminate solid green. This indicates that the unit is operating correctly and no maintenance is required. If either indicator light is flashing, please refer to the trouble shooting section of this manual to identify the cause and corresponding corrective measure.

NOTE:

During normal operation even if there is no indication of a malfunction. It is recommended that you periodically inspect the Probe for corrosion and debris build up. Make sure the transformer is unplugged before inspection. Remove corrosion with steel wool or a very fine sand paper.

Trouble Shooting Guide

Always turn off power before inspecting. Failure to do so can result in electrical shock or serious accident.

Carefully read through this instruction manual before ordering repairs. If the problem continues, please contact your dealer or place of purchase.

Problem	Possible Cause	Possible Solution
Power Indicator is flashing (blue)	Excessive corrosion on the Probe	Remove the electrodes by rotating in a counter clockwise direction. Inspect the Probe and remove built-up corrosion with steel wool.
	Insufficient water flow through the Probe	Operating without a strong flow of water across the Probe will allow ions to simply jump across to the opposite electrode instead of being carried into the water feature. This will result in excessive corrosion of the Probe and insufficient treatment of the water.
	Ionization level is set significantly lower than the level of conductivity	The conductivity level of the water is too high for selected level of ionization. Increase the level of ionization until the indicator light stops flashing. Monitor copper levels and unplug the Control Panel if copper levels become elevated.