

Ionizer

Instruction Manual

For Models IO-2001 & IO-3001



IO-2001

IO-3001

Limited Warranty

This PROECO product is covered by a 2-year limited warranty by PROECO PRODUCTS. The limited warranty period begins from the date of purchase and covers material and manufacturing defects or failure of the product to operate as specified by PROECO PRODUCTS during the duration of the limited warranty period.

This limited warranty does not cover failure or problems related to:

- Improper installation, see this manual for proper installation procedures.
- Modification of the product in any way including attempts to repair the product by someone other than a PROECO PRODUCTS trained and authorized repair technician.

- Failure to follow proper safety, care and maintenance guidelines as outlined in this manual.

It also does not cover those parts of the product that are subject to normal wear and tear during usage of the product, such as:

- Impellers on pumps
- Filter pads and filter medium in filters
- Lamps in lights and UV clarifiers

PROECO PRODUCTS's sole liability shall be to replace or repair the product covered by this limited warranty. PROECO PRODUCTS shall not be liable for any consequential damage to any other part of the water garden, pond, water feature, landscape, structure, or the contents of any structure where the product is located or used including no liability for damage or harm to fish, animals, or plants in or around the water garden, pond or water feature.

THE EXPRESS WARRANTIES SET FORTH HEREIN ARE THE ONLY WARRANTIES WITH RESPECT TO THE PRODUCTS, AND THE REMEDIES SET FORTH HEREIN ARE THE EXCLUSIVE REMEDIES IN THE EVENT OF A BREACH OF SUCH WARRANTIES. PROECO PRODUCTS EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PROECO PRODUCTS SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, FOR ANY BREACH OF SUCH WARRANTIES OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages, to the above limitation may not apply to you.

Should your PROECO PRODUCTS product be defective or fail under the terms of this limited warranty, you should return the product to your PROECO PRODUCTS dealer, along with your original receipt of purchase and any other limited warranty documentation you have, for replacement or repair. Should you have any question about this limited warranty, please contact PROECO PRODUCTS at info@proecoproducts.com

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IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this product. When using an electrical appliance, basic precautions should be observed, including the following:



WARNING:

- Unplug from outlet when not in use and before cleaning or maintenance.
- Do not operate with a damaged power cord.
- Do not pull or carry the product by the power cord.
- If the power cord is damaged it must be repaired by a qualified repair station.
- Use the product only for its intended use.
- Close attention is necessary when used by or near children.
- Store product in a dry place when not in use.
- Only connect unit to a properly grounded outlet (See Grounding Instructions).
- Use only manufacturer's attachments and spare parts.
- Protect controller from direct elements (rain, sun). A weather proof outdoor enclosure is recommended.

Grounding Instructions

This product must be connected to a grounded wiring system. If it should breakdown or malfunction, grounding provides a safe path of least resistance for electrical current, reducing the risk of electrical shock. The cord for this unit has an equipment-grounding conductor and a grounding plug. It must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Improper connection of the equipment-grounding conductor can result in electrical shock. Check with a qualified electrician if you are unsure if the outlet is properly grounded. Do not modify the plug provided with the product or use any type of plug adapter.

PARTS INCLUDED

- Controller - 1
- Anode Assembly -1
- Clear Tee -1
- Reducer Bushing - 2
- Test Strips - 1



INSTALLATION INSTRUCTIONS

The ProEco Ionizer can be easily installed in under 30 minutes. The ion chamber (Clear PVC tee) is usually installed in the circulation system after the pump and filter. It is recommended that you install the tee as close to where the water returns to the water feature as possible. Please read and follow the instructions below:

1. Ensure the total alkalinity is between 80 and 120 ppm. (Most important!) Also ensure hardness, pH and TDS are within acceptable levels (see maintenance section) Excessive amounts of algae or bacteria should be controlled prior to start-up.
2. Unplug the filtering system.
3. Plan the placement of the tee, electrodes, controller and plug ensuring there is adequate room and all parts reach designated power source. A qualified electrician can extend the electrodes line cord if required using standard 18/3 cable.
4. Drain the water pipe in which you have chosen to install the tee.
5. Cut out a 3" section of the horizontal run of pipe where you have chosen to install the tee.
6. Replace this part of the pipe with the tee assembly and fasten with standard PVC glue making sure that the electrodes are vertical in order to allow maximum contact with water and to avoid dirt formation or air pockets around the electrodes.
7. Mount the controller on a suitable surface.
8. Connect cable from electrodes and wire from power supply into the controller.
9. Wrap Teflon tape around the threads on the electrodes six times. Use your hand to turn the electrodes clockwise into the Tee until it is secure. For more even wearing of electrodes: Before installing the electrodes and fastening them to the provided tee, make a small mark on the white PVC cap that indicates the half way point between the two electrode bars. When threading electrodes into the tee, align the mark with the middle of the tee. This procedure will ensure that the water will flow between both bars and even erosion of both electrodes. (Optional)
10. Plug into suitable ground fault protected outlet.

THE DIGITAL DISPLAY



Ionizing When the "ionizing" light is illuminated, it confirms the system is ionizing the water. To operate properly the electrodes must be fully submersed in water, and at least 80 mA of current must be flowing from the electrodes into the water.

"-" This button will decrease the amount of ions released.

"+" This button will increase the amount of ions released.

OPERATING INSTRUCTIONS

1. **Power Up** Plug in controller. The digital display should turn on.
2. **Press "+"** The larger the number the larger amount of ions are released, test water regularly at the same time of day in the same location, try to be as constant as possible. When desired level is achieved, adjust the controller to maintain those levels.

MAINTENANCE

1. **Copper (Ion) Tests:** Using a copper test kit, ensure ions are between 0.2 p.p.m. - 0.4 p.p.m.; Test the ion level at least once a week until you have found the proper duty cycle for your water feature. Increase or decrease the duty cycle as required. Check the expiration date of the Copper test kit as test results may be inaccurate if used after that date.
2. **Anodes:** The anodes that deliver current to the water need only be checked once per season and typically last for one year (2,160 "on" hours under normal use conditions). You can purchase additional anodes from your authorized dealer. To replace your anodes, simply turn old electrodes counter clockwise to release them from the tee, and swap for a new set of anodes, turning clock wise to fasten them back into the tee.
3. **Alkalinity** - Keep the total alkalinity between 80 and 120 ppm. (Most important!)
4. **pH Levels** - Keep the pH levels between 7.2 and 7.8.
5. **Calcium Hardness** - Keep calcium hardness between 200 and 300 ppm.
6. **Total Dissolved Solids** - Keep total dissolved solids (TDS) between 500 and 2,000 ppm.

NOTE: Adding pond salt to the water feature can help adjust and stabilize the Alkalinity, Calcium Hardness and TDS. Make sure to follow the pond salt manufacture's dosage instructions.

CLEANING & CARE

Anodes: Cleaning will remove oxidation. Some deposits have a tendency to form on the electrodes depending on the water conditions. Clean the face of the anodes using a smooth file and some water. The surface does not have to be "polished"; simply remove any traces of oxidation and other sediments. Remove the old Teflon tape, use new tape and wrap it around six times.

Exterior Housing: The housing of the ionizer is made from a durable PVC plastic. Clean the outside with a mild soap and water; rinse and dry with a soft cloth. Do not use any type of household or abrasive cleaner.

System Controller: Care should be taken in cleaning the controller. If the controller becomes soiled, wipe the panel with a cloth dampened slightly with water only. Dry with a soft cloth. Do not scrub or use any sort of chemical cleaners.

Winterization - If you choose to winterize your water feature remove the anode assembly from the clear tee and replace it with a plug. The controller and anode assembly can then be stored indoors.