



Aquatic

Operating Manual



**Produced for and
Distributed by:
A2Z Ozone, Inc.
Louisville, KY 40202 USA
EPA Est.: 95432-KY-1**

Phone 1+502-499-4977

**Active Ingredient: Ozone.
Do Not Inhale Ozone.
Keep Out of Reach of
Children.**

**Produced by:
Bluegrass Water
Technology Shenzhen
Co., Ltd
EPA Est.: 95432-CHN-1**

Made in China

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IMPORTANT:

WARNING: Do Not Inhale Ozone. Ozone Can Damage Lungs if Inhaled. Remove Immediately to Fresh Air if exposed. Keep Out of Reach of Children. Hazards to Humans and Domestic Animals--Do Not Expose Children, People, Pets, Plants or Valuables to Ozone. Ozone Health Information -- If exposed to ozone, get to fresh air immediately. Seek doctor's advice if exposed to ozone.

HIGH VOLTAGE! Perform service on ozone generator by certified technicians only! For your safety, do not store or use gasoline, chemicals or other flammable liquids or vapors near this or any other appliance. NOTE: Use Only As Directed. Follow All Instructions Provided in the Manual. Buyer will assume all responsibility for installation, running and use not in accordance with directions.

For questions, please call 1+502-499-4977 or email info@a2zozone.com

Important Safety Information

Read and follow this owner's manual carefully for important installation, operation and safety information.

- **All electrical connections should be made by a qualified electrician.**
- **Follow all applicable electrical codes.**
- **Be sure the electrical power is shut OFF at the main circuit breaker before installing the ozone generator.**
- **Do not bury the cord.**

WARNING – To reduce the risk of electrical shock, replace damaged cord immediately.

- **Per UL spa requirements, the Aquatic must be mounted indoors or under a cover sheltered from elements such as rain, sun, or sprinklers.**
- **To reduce the risk of injury, the unit should be mounted where it is inaccessible to children.**
- **Plastic ozone supply tubing is available with the Aquatic. Never replace this tubing with metal tubing.**
- **Do not operate the Aquatic unless sufficient air flow is being drawn through the unit.**
- **Do not inhale ozone gas produced by the device.**

PLEASE SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

Caution: In case of accidental leakage, install the ozone generator in a well-ventilated area.

Technical Specifications

Model	Aquatic
Electric	100-250 VAC 50/60 Hz
Power	9 W
Ozone Output	300 mg/hour (based on 1 LPM of oxygen flow)
Size	7.5 x 5 x 3.2 inches 184 x 128 x 80 millimeters
Weight	1.2 lbs 530 grams
Connection	AMP Model
Cable	5.5 feet
Check Valve	1/4 inch
Tube	5 feet

***Aquatic ozone output is standardized with 1 LPM oxygen flow rate. Because this unit is run by air, actual ozone concentration is 0.6 mg/L only. Note, there is no oxygen connector on the Aquatic.**

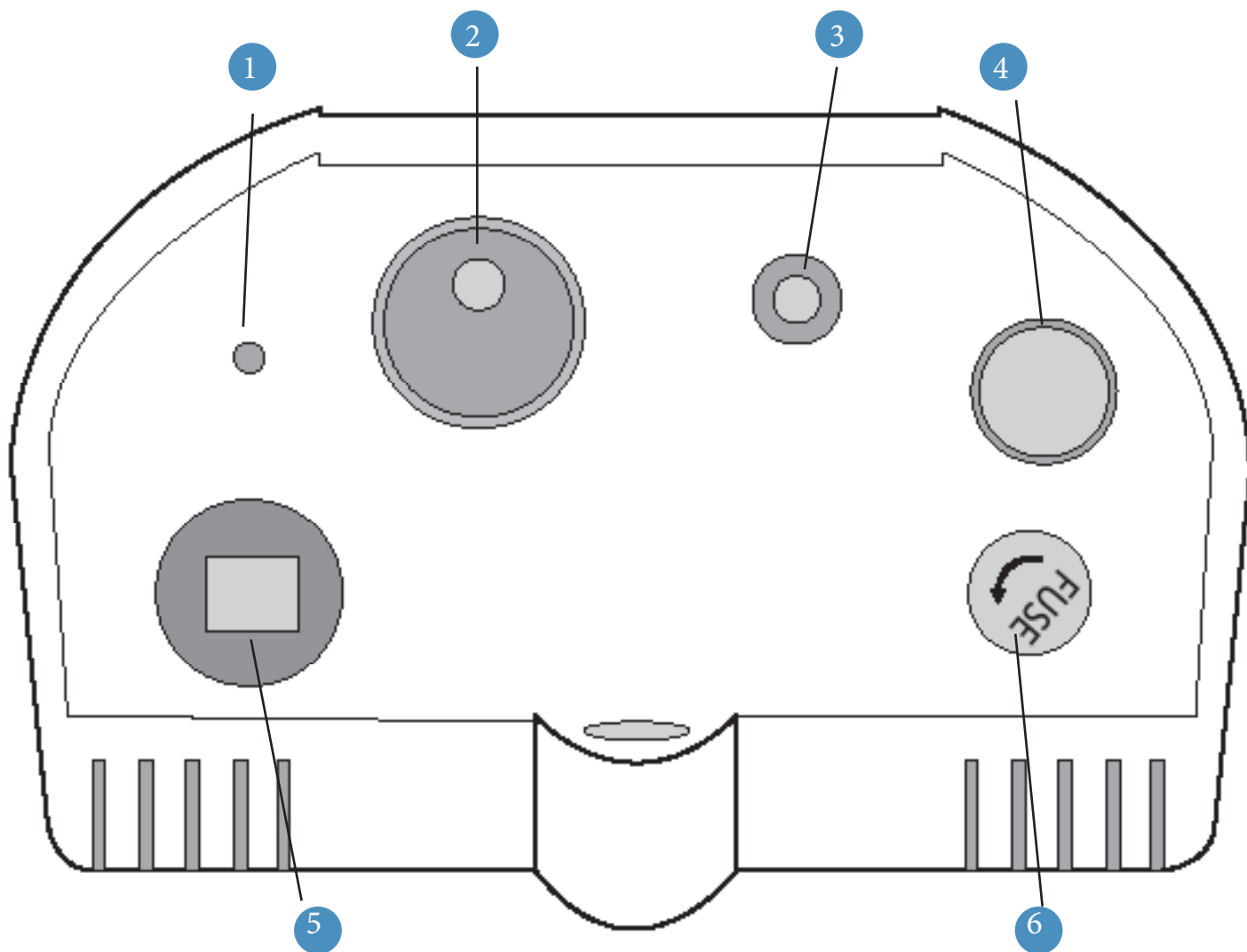


Figure 1
(Bottom of Unit)

Aquatic Features

1	Power LED	Indicates when the unit is running. When operating properly, a blue light will illuminate. A red light for a few seconds when the unit is first turned on is normal.
2	Air Intake	This sucks in air for the unit to produce ozone. Please do not block this intake port. Clean the small round outlet as needed.
3	O₃ Output	Ozone is sucked out and injected into the water.
4	Power Button	Use to shut off the ozone generator.
5	Power Cable	Supplies power to the unit.
6	Main Fuse	If the unit has no power, check here first. Requires a 2 AMP fuse.

Installation Instructions

Installation Parts

- **Aquatic Ozone Generator**
- **1 installation manual**
- **1 check valve**
- **5 feet of tubing**
- **4 hose ties**
- **2 screws and plastic anchor for mounting**

Installation Tools and Materials

- **Phillips screwdriver**
- **Pliers**

Unit Assembly

- **The Aquatic is pre-assembled and ready to install.**

Mounting

- **Mount the ozone generator as high as possible.**
- **Screws are provided for mounting but may not be appropriate for all surfaces. Substitute proper mounting hardware as required.**

Electrical

- **Test the GFCI breaker**
- **Connect the Aquatic cord to the mating connector(s) on the control box.**
- **Where possible, route the power cord away from other electrical lines. Do not run the power cord parallel to any low voltage signal wires.**
- **Secure the power cord as required to prevent damage.**

Operation

- **Verify that the ozone generator turns on and off as required by the controller.**
- **The LED light will be visible from the viewing window on the bottom left. Verify that the gas is flowing into the injector.**
 - **Blue means that it is working properly and Red means that it is not producing ozone.**
 - **There should be no water in the tubing and very small bubbles entering the spa through the return.**
- **Verify that water does not push passed the check valve during any spa cycle.**
- **Check for and correct any leaks.**

Installation Complete

- **Once properly installed, the ozone generator requires no further user operation.**
- **It will operate automatically.**

Wiring Diagram

This unit is shipped with the wiring as shown. 110V or 240V can be applied to the black and white wires. Match alignment of the white wire of the ozone generator connector with the controller box connector. Keep in mind, the white wire can be moved. Mount the unit so that the tube, light and wires are toward the ground. Disregard the front label.

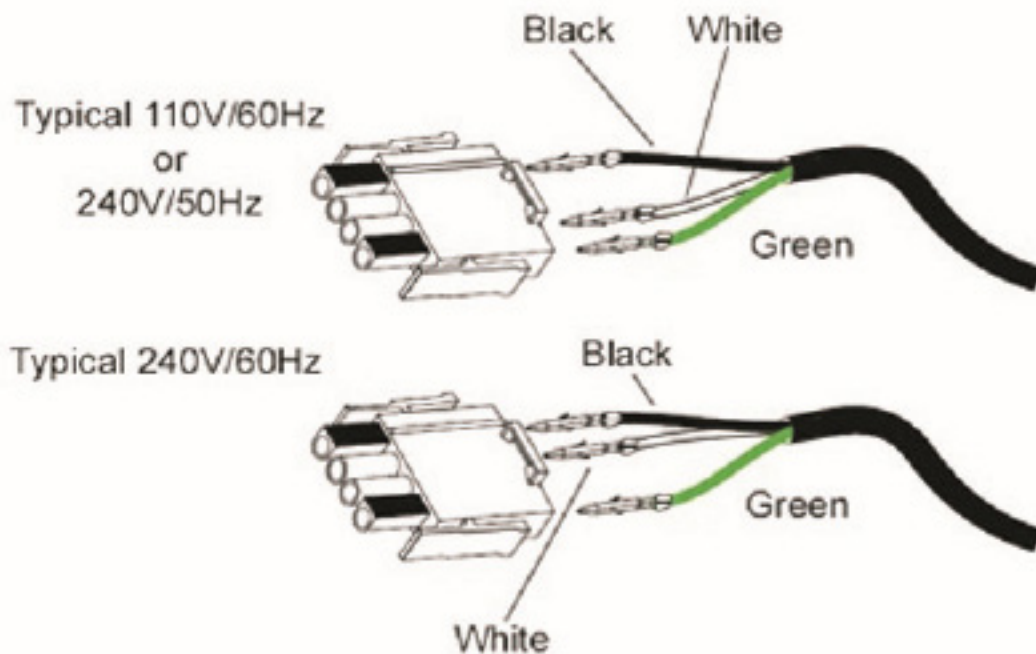


Figure 2

Operating Instructions

Please make sure water will not back into the Aquatic Ozone Generator. Water will damage the unit and void the warranty.

Please check these:

- **Install the unit above water level and as high as possible.**
- **Mount the unit so the tube, light, and wires are toward the ground (disregard the front label.)**
- **Install the check valve according to arrow on check valve (arrow is toward injector)**
- **You need an injector.**
 - **If you do not have an injector, please contact us for purchasing one.**
 - **This unit does not work without a venturi injector.**
- **There should be a vacuum at ozone injector suction location.**
 - **This can be felt with your finger when installing.**
- **Ozone generator should be on only when the pump is on.**

Maintenance

- **To keep your Aquatic Ozone Generator operating properly, please replace the air filter in the unit as needed or wash, dry and reinstall in unit. (Must be absolutely dry before replacement.)**
- **Refer to the chart below.**
- **Renew your spa ozone generator as needed with a repair kit.**

Daily Use	Average Unit Life
2 hour/day ozone cycle	3 years
3 hour/day ozone cycle	2 years
6 hour/day ozone cycle	1 year

Troubleshooting

Problem	Possible Cause	What to Do
Cloudy water condition even though the unit appears to be operating properly	Unit and pump not operating long enough	Increase operating time (min. 6 hours is recommended)
	Total alkalinity not correct	Adjust total alkalinity between 8 and 150 ppm
	pH not correctly balanced	Check for proper pH between 7.2 and 7.6
	Not enough suction	Clear any obstruction in the water lines or return fitting
	Dirty, loose or cracked filter	Check/replace spa filter as needed
	Metals or minerals in the water	Ozone may react with metals/minerals in the water causing cloudy water. Check alkalinity pH and clean filter. Run filtration system and ozone 24 hours.
System won't turn on/off	Water backing into the unit	Mounting the unit as high as possible in relation to the spa water level is important. There is also a one-way check valve provided to prevent the back flow of water from reaching it. As a secondary precaution, a Hartford Loop in the tubing, also hanging above water level, will help prevent water damage to the unit.
LED is red	Ozone board needs replaced OR plates need to be cleaned	Check the fuse on the ozone board OR replace ozone board and plate.
The LED not lit on ozone generator	No power to the ozonator or DC board is bad	Check the electrical connections and then the fuse on the DC board

Warranty

A2Z Ozone Systems Inc. - ONE YEAR LIMITED WARRANTY

The limited warranty set forth below applies to products manufactured by A2Z Ozone Systems Inc. - and sold by A2Z Ozone Systems or its authorized dealers. This limited warranty is given only to the first retail purchaser of such products and is not transferable to any subsequent owners or purchasers of such products. A2Z Ozone® warrants that it or its authorized dealers will repair or replace, at its option, any part of such products proven to be defective in materials or workmanship within ONE (1) year from the date of retail purchase of such products. (All parts) ANY REPAIR OR REPLACEMENT WILL BE WARRANTED ONLY FOR THE BALANCE OF THE ORIGINAL WARRANTY PERIOD. NOTE: USE ONLY A2Z Ozone AUTHORIZED REPLACEMENT PARTS. USE OF ANY OTHER PART(S) WILL AUTOMATICALLY VOID THIS WARRANTY. THIS LIMITED WARRANTY DOES NOT INCLUDE ANY OF THE FOLLOWING:

- (a) Any labor charges for troubleshooting, removal, or installation of such parts;
- (b) any repair or replacement of such parts necessitated by faulty installation, improper maintenance, improper operation, misuse, abuse, negligence, accident, fire, repair material, and/or unauthorized accessories;
- (c) Any such products installed without regard to required local codes and accepted trade practices;
- (d) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE, AND SUCH WARRANTIES ARE HEREBY DISCLAIMED: AND
- (e) A2Z Ozone SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR LOSS OF USE OF SUCH PRODUCTS, LOST PROFITS, DIRECT DAMAGES, INDIRECT DAMAGES, CONSEQUENTIAL DAMAGES AND/OR INCIDENTAL DAMAGES.

TO OBTAIN WARRANTY SERVICE

Contact A2Z Ozone, 523 East Broadway, Louisville, KY 40202, USA

Customer Service Number: +1 502-499-4977.

When filing a claim, you must provide:

- 1) Your name, mailing address and telephone number
- 2) The selling dealer's name
- 3) Proof of date of purchase
- 4) The date of failure
- 5) A description of the failure.

After this information is provided, A2Z Ozone will release a RETURN GOODS AUTHORIZATION (RAN) NUMBER. After receiving the RAN number the part in question must be returned to A2Z Ozone, freight prepaid, with the RAN number clearly marked on the outside of the package. All preauthorized defective parts must be returned to A2Z Ozone within thirty (30) days. Under no circumstances may any product be returned to A2Z Ozone without prior authorization. You must call or write prior to returning product or your returned goods shipment will be refused. Upon receipt of preauthorized returned goods, A2Z Ozone will repair or replace, at its option, the defective product(s) and return them (shipping is prepaid for units under warranty for USA customers only). Buyer's acceptance of the product and use thereof constitutes acceptance of these terms.

A2Z Ozone WARRANTY REGISTRATION CARD

This information can be sent by EMAIL to us. Please provide ALL pertinent information and send within twenty (20) days to: service@a2zozone.com

Otherwise, please fill out completely and return to A2Z Ozone by post within twenty (20) days of purchase.

Customer Info:

Name _____

Address _____

City _____ State _____ Zip _____

Phone (____) _____

Dealer Info:

Dealer Name _____

Dealer Address _____

City _____ State _____ Zip _____

Phone () _____

Purchase/Product Info:

Purchased Date: _____ Date Installed _____

Product Purchased: AQUATIC OZONE GENERATOR

Comments / Questions:

DO NOT FORGET TO CUT OUT, PLACE IN ENVELOPE AND MAIL TO THE FOLLOWING ADDRESS FOR INSTANT WARRANTY COVERAGE!

A2Z Ozone Systems Inc.

ATTN: Warranty Dept.

523 East Broadway

Louisville, KY 40202, USA

1+502-499-4977