



Aquatic 2

Operating Manual



**Produced for and
Distributed by:**

**A2Z Ozone, Inc.
Louisville, KY 40299 USA
EPA Est.: 95432-KY-1
Phone: 1+502-499-4977**

**Active Ingredient: Ozone.
Warning: 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

Table of Contents

Important Safety Information	2
Technical Specifications	3
Aquatic 2 Features	5
Installation Instructions	6
Wiring Diagram	8
Operating Instructions	9
Maintenance	10
Troubleshooting	11
Warranty	12

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 direction.

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.

Always follow basic safety precautions, including but not limited to the following:

- **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.**
- **If the ozone generator electrical connection is to be attached to spa controls, be sure the spa controls are protected by a Ground Fault Circuit Interrupter (GFCI). If the Aquatic 2 is connected to an independent electrical supply, have a qualified electrician install a GFCI between the ozone generator and the electrical supply.**
- **Do not bury the cord.**

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

- **Per UL spa requirements, the Aquatic 2 must be mounted indoors or under a cover sheltered from the elements (rain, sun, sprinklers).**
- **Never attempt servicing when you are wet.**
- **To reduce the risk of injury, mount the unit where it is inaccessible to children.**
- **Plastic ozone supply tubing is available with the Aquatic 2. Never replace this tubing with metal tubing.**
- **Do not operate the Aquatic 2 unless sufficient air flow is accessible to the unit.**
- **The use of ozone test strips or dissolved ozone monitor is required.**
-

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 2
Electric	85-250 VAC, 50/60 Hz
Power	6 W
Ozone Output	300 mg/hour*
Size	3.6 x 2.5 x 5.7 inches 92 x 62 x 146 millimeters
Weight	.74 lbs 330 grams
Connection	AMP Model
Cable	5.5 feet
Check Valve	1/4 inch
Tube	5 feet

***Aquatic 2 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, the Aquatic 2 does not have an oxygen hookup.**

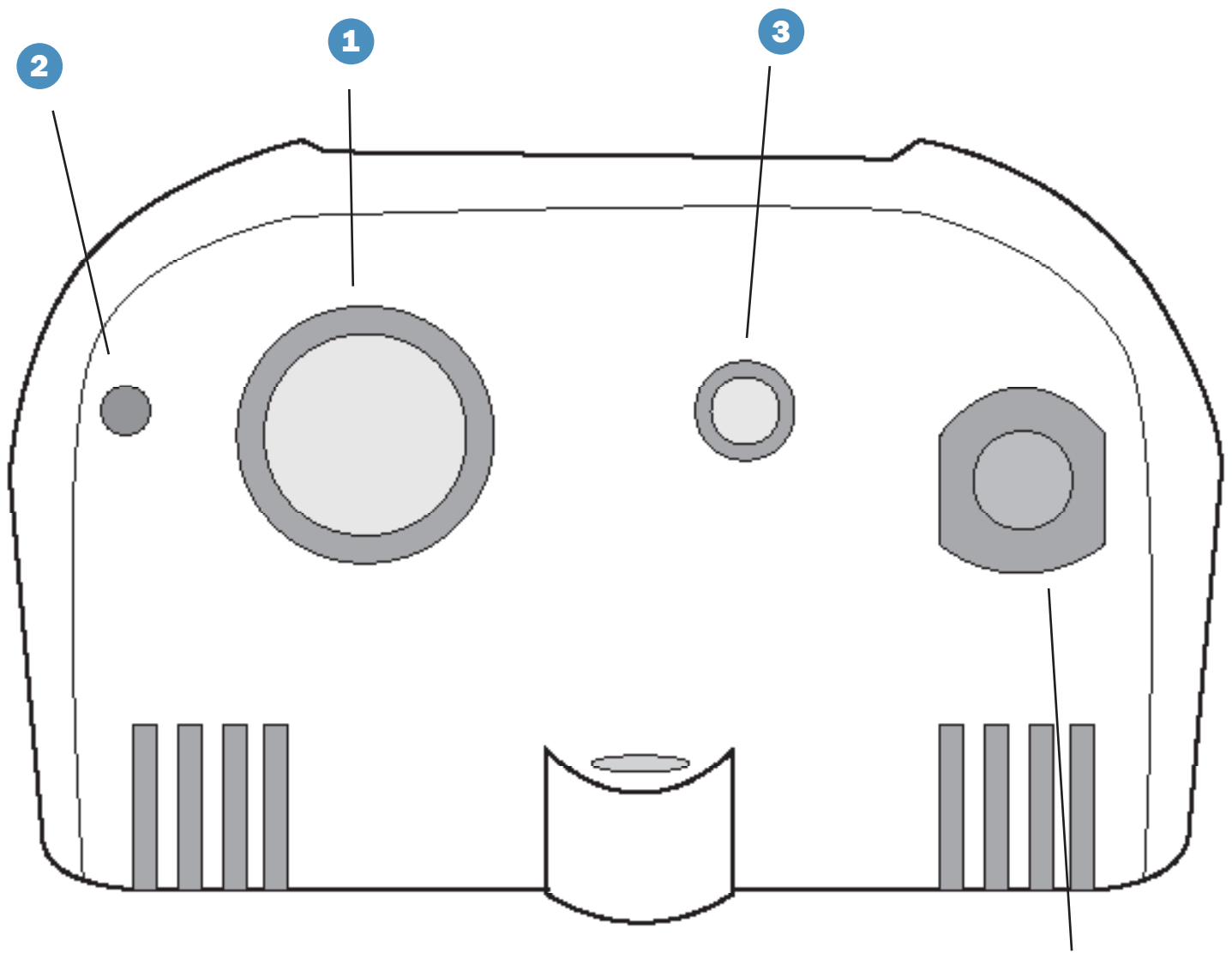


Figure 1
(bottom of Unit)

Aquatic 2 Features

1	Air Intake	Allows air that is needed for producing ozone to pass over the ozone cell. DO NOT BLOCK
2	Power LED	Indicates when there is power to the unit. If the power is supplied, the light will remain a solid red.
3	O₃ Output	Ozone leaves the unit through this port.
4	Power Cable	This cable supplies power to the ozone generator.

Installation Instructions

Installation Parts

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

Required Installation Tools and Materials

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

Unit Assembly

- **The Aquatic 2 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 2 cord to the mating connector(s) on the control box according to the provided A2Z Ozone™ wiring diagram in Figure 2.**
- **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 to prevent damage.**

Operation

- **Verify that the ozone generator turns on and off as required by the controller.**
- **The red LED light will be visible from the viewing window on the bottom left.**
- **Verify that the gas is flowing into the injector.**
- **Verify that water does not push passed the check valve.**
- **Check for and correct any leaks.**

Installation Complete

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

Wiring Diagram

The unit ships with the wiring as shown. The voltage for either 110V or 240V can be applied to the black and white wires. Match the 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.

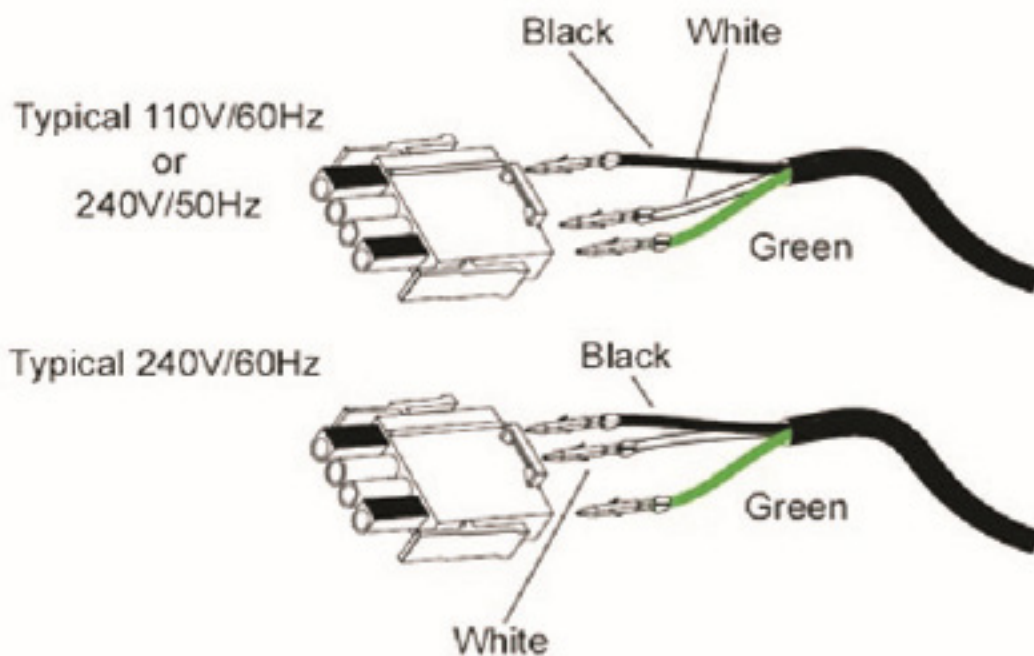


Figure 2

Operating Instructions

Please make sure water will not back into the Aquatic 2 Ozone Generator. Water will damage the unit and void the warranty.

Please check these:

- **Install the Aquatic 2 above water level and as high as possible.**
- **Mount the unit so the tube, light and wires are toward the ground. Disregard front label.**
- **Install the check valve according to the arrow on the check valve. The arrow is toward the injector.**
- **You need an injector for injecting ozone into the spa's water line.**
 - **If you do not have a venturi injector, please contact us to purchase 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 spa pump is on.**
- **If your spa did not have an ozonator, then connect ozone electric wire to pump wires.**

Maintenance

- **Refer to the chart below.**
- **Renew your ozone generator as needed with a repair kit.**
- **To keep your Aquatic 2 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.)**

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.
The red LED not lit on ozone generator	No power to the generator	Check the electrical connections and then the fuse
	There is power to the generator	Ozone board needs to be replaced
Not enough ozone output	Clean or replace ozone plate	Clean or replace ozone board and plate

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, 1844 Cargo Court Louisville, KY 40299, 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 also send 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 2 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.

1844 Cargo Court

Louisville, KY 40299, USA