

INSTALLATION MANUAL



**PP2 Ozone System
(No Filter Cartridge)**

**PP3 Ozone System
(With Filter Cartridge)**



PERFECT POOL OZONE GENERATOR

IN DECK CIRCULATION/FILTRATION UNIT

MADE IN



U. S. A.



NOTE TO INSTALLER:

**GIVE THIS MANUAL TO OWNER
OPERATOR AFTER INSTALLATION**





IMPORTANT SAFETY INSTRUCTIONS



When installing and using this electric equipment, basic safety precautions should always be followed including the following:

1. **READ AND FOLLOW ALL INSTRUCTIONS**
2. **WARNING** - Risk of Electric Shock. Connect only to a grounding type receptacle protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.
3. **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
4. **WARNING** - To prevent electrocution and/or death make sure power is off at the breaker.
5. Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers and other equipment.
6. **WARNING** - To reduce the risk of electric shock, replace damaged cord immediately.
7. **WARNING** - To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet. Avoid touching/installing the Perfect Pool Ozone Generator box during electric storms. Death or serious injury may result due to lightning surges through the system. Be sure to check local electrical code for grounding electrical boxes via the approved method (internal conduit ground, external box ground to grounding rod, Ground Fault Circuit Interrupter or GFCI, etc.)
8. Use approved conduit routed by approved methods to conduit fittings on the unit.
9. Be sure the mounting surface is able to support the load of the controller. Use all mounting hoels to secure the unit.
10. There are no customer servicable components inside the Perfect Pool Ozone Generator. Only qualified electricians should open the unit for installation. All connections should enter an approved conduit method.
11. **SAVE THESE INSTRUCTIONS**

ADDITIONAL PRECAUTIONS

- A. **DIRECT INHALATION OF OZONE GAS FOR PROLONGED PERIODS CAN BE DETERIMENTAL TO YOUR HEALTH**
- B. This unit produces Ozone Gas, a highly agressive oxidizing agent. It is intended only to be used in pool/spa OUTDOOR environments.
- C. The Ozone Generator cannot be located within 5 ft of pool waters edge.
- D. This Ozone Generator must be installed in accordance to Article 680 of the NEC and local code requirements.

WARNING



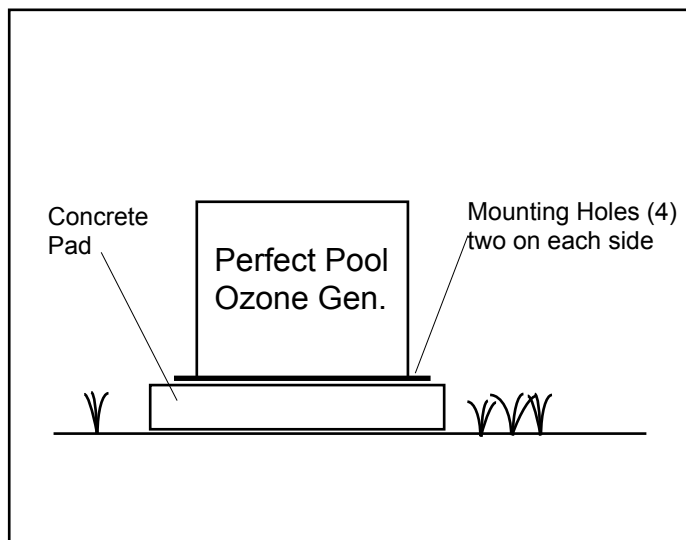
DU E TO THE DESIRED WATER RESISTANT SEAL OF THE ENCLOSURE, DO NOT REMOVE ANY KNOCKOUTS UNLESS THAT HOLE WILL HAVE A CONDUIT INSTALLED. IF A KNOCKOUT IS ACCIDENTALLY REMOVED, STEPS MUST BE TAKEN TO RESEAL THE OPENEING OR THE PERFECT POOL OZONE GENERATOR WILL BE DAMAGED.

MOUNTING PAD MOUNT

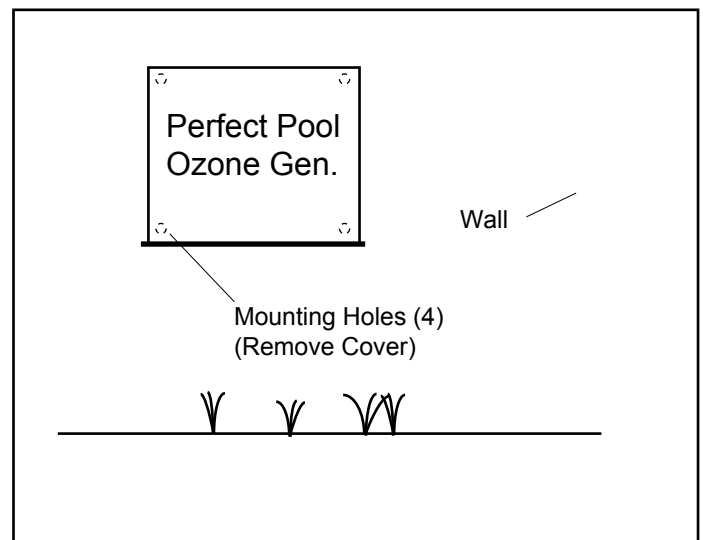
1. Place unit on a secure concrete pad. (**see Fig.1**)
2. Use the four (4) mounting holes to secure the unit to the pad or mounting surface.

WALL MOUNT

1. Select a mounting location so that the bottom surface of the unit will be raised above the ground or placed on a secure concrete pad. (**see Fig.2**)
2. Remove cover and locate the four (4) mounting holes (Fig.2) to secure the unit to the pad or mounting surface.
3. After securing unit to the wall replace cover and secure with the cover screws.

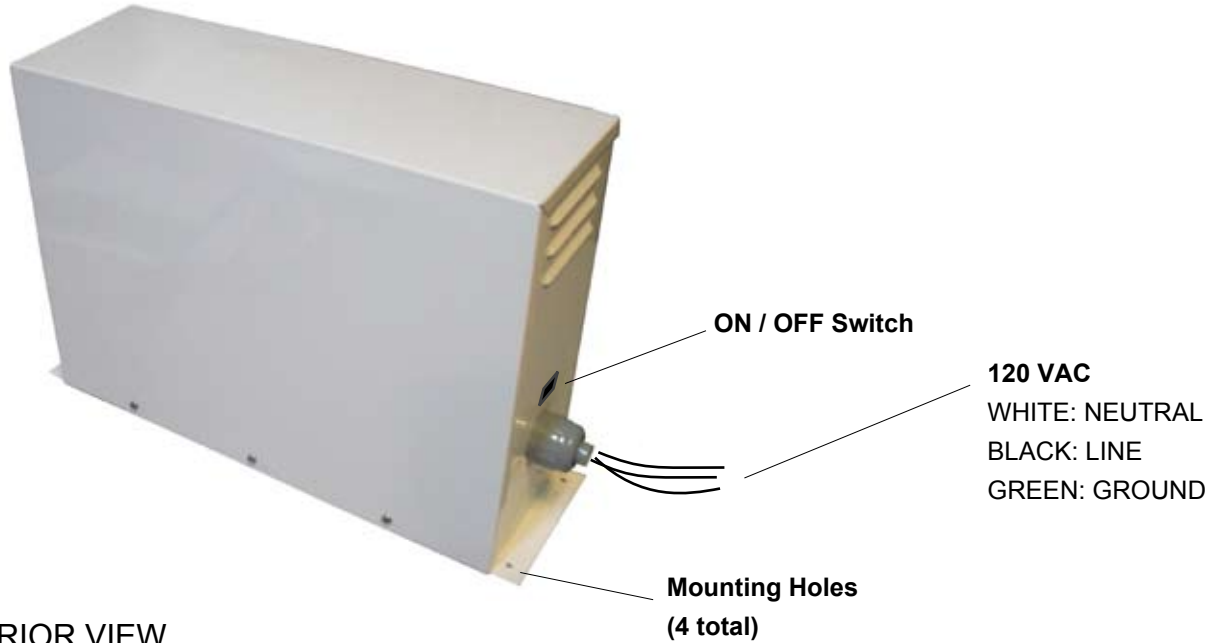


Pad Mount Fig. 1



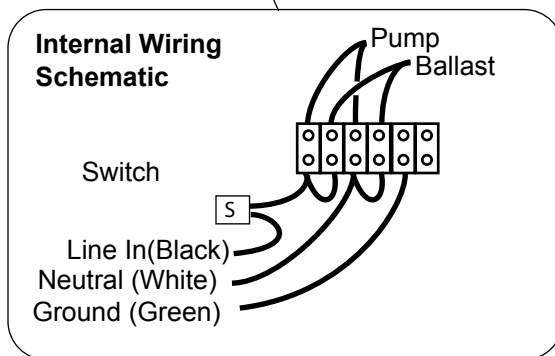
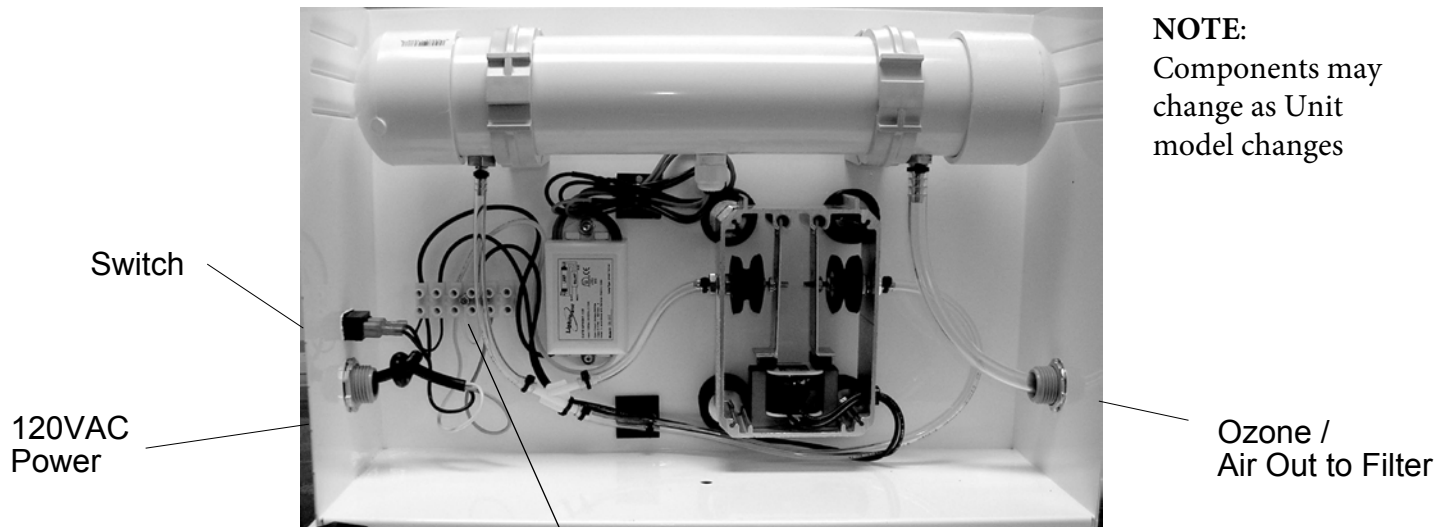
Wall Mounng Fig. 2

UNIT OVERVIEW



EXTERIOR VIEW

INTERIOR VIEW



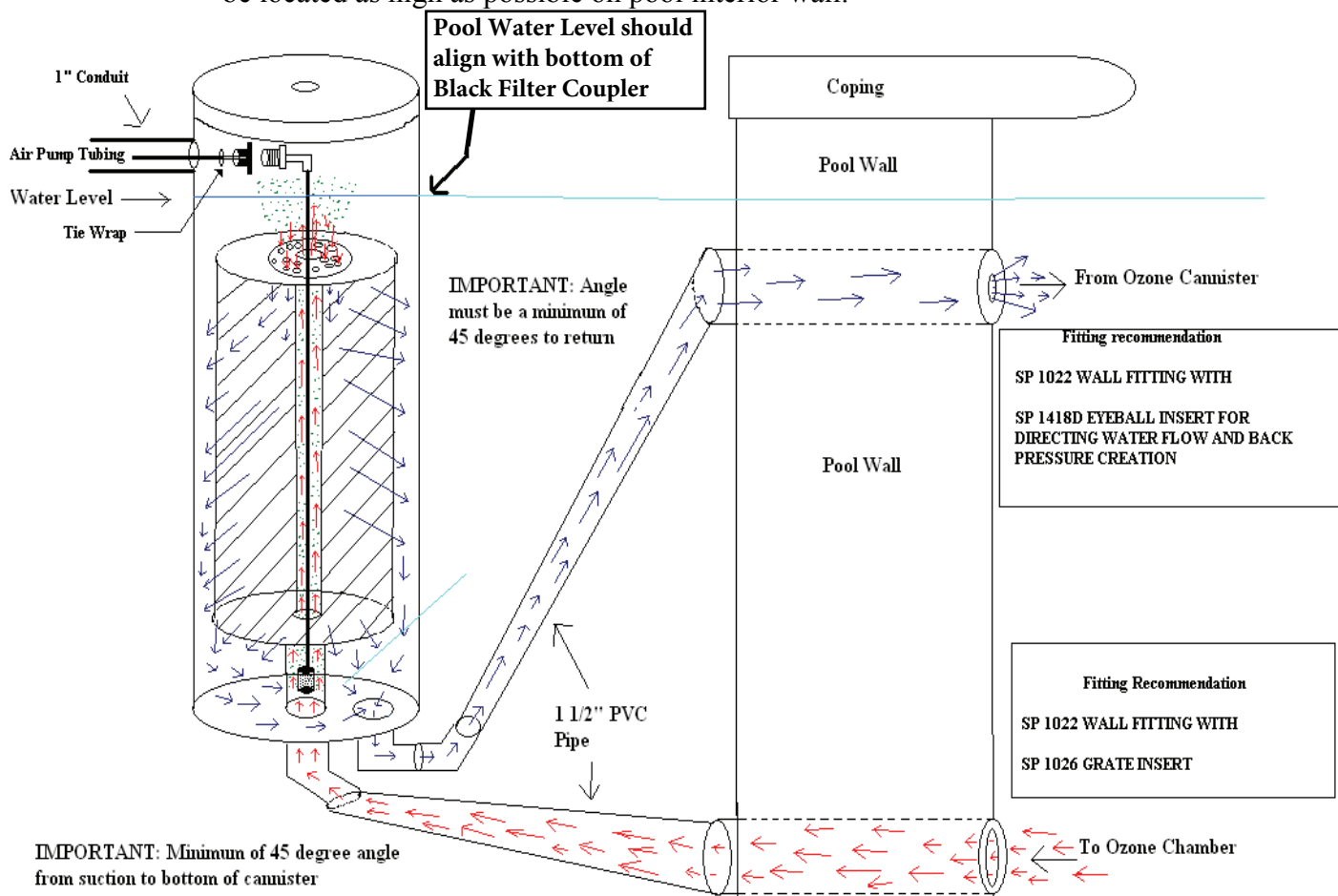
IN DECK FILTER MODULE INSTALL INSTRUCTIONS

There are 3 key installation points that must be adhered to for proper operation.

1. The In deck filter module must be installed at a level of where the pool water is equal to the bottom of the BLACK COUPLER.

THIS IS THE MOST CRITICAL INSTALLATION POINT

2. Conduit must be run from the In Deck Filter module to the Generator assembly located at the equipment pad. Since time to time this conduit will have water/ moisture in it, it needs to be properly glued the entire length.
3. The Water Inlet (suction—middle pipe on filter base) should be located as low in the pool wall as possible. The Water Return (outside pipe on filter base) should be located as high as possible on pool interior wall.



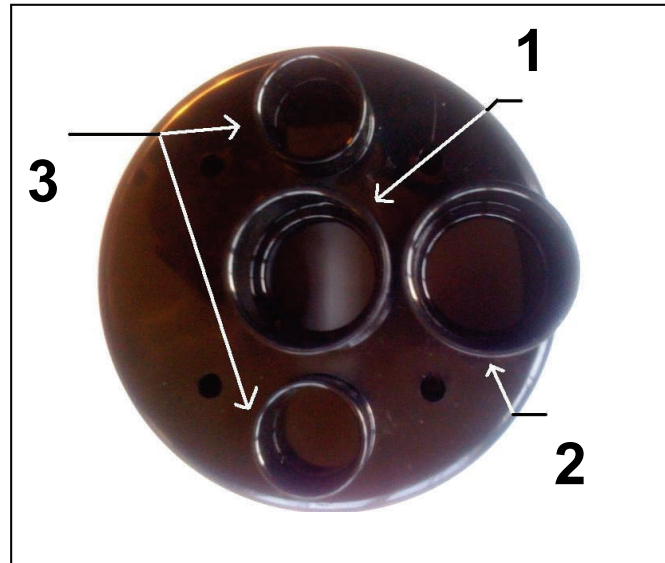
THE MOST CRITICAL INSTALL POINT IS MAKING SURE THE POOL WATER LEVEL IS ALIGNED WITH THE BOTTOM OF THE BLACK COUPLER ON THE FILTER MODULE

IN DECK FILTER MODULE INSTALL INSTRUCTIONS

THERE ARE 4 CONNECTION ON FILTER BASE

1. 1 1/2" Inlet fitting - this is located in the direct center of the Filter BAse
2. 1 1/2" Return fitting located on the extreme outside of filter base.
3. There are 2—1" fittings that are blocked off. They do not pass into the interior of filter base.

These 1" glue fittings provide the ability to glue in 1" pipe to be used as support pipes for the filter module itself.



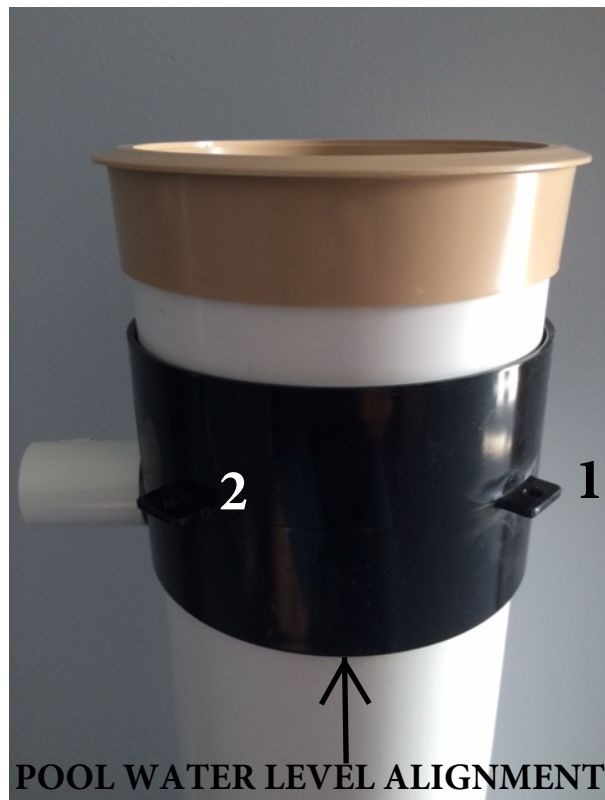
SECURING FILTER MODULE

There are 4 TABS located in the center area of the Black Coupler or Collar. 2 of the are shown here. These TABS are to be used to secure the Filter Assembly to rebar used in the deck area.

By securing the filter module to rebar you can also ensure that the POOL WATER LEVEL aligns with the bottom of the Black Coupler.

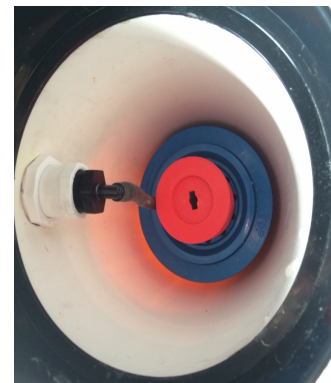
ADJUSTING TO DECK POUR HEIGHT

The collar on the top of the Filter Module is not glued and can be raised and tilted to match deck level around pool area.



TUBING & DIFFUSER INSTALL INSTRUCTIONS

1. Run 1" conduit from In Deck Filter to equipment pad or wherever Generator is located. Make sure to use "sweep" fitting—no 90 degree elbows should be used as replacement of tubing would be very difficult.
2. Run Tube from In Deck Filter to Oxone Generator and attach to Check Valve located inside Oxone Generator.
3. Attach tubing to Straight barb fitting contained in bag.
4. Secure tubing to barb with enclosed hose clamp.
5. Push Slip fitting with barb/hose into filter receiver fitting on side wall.



6. Thread in 90 degree fitting and attach diffuser and hose. Insert under Chlorine Cartridge "Birdcage" and into the Filter cartridge 1 1/2" pipe. Make sure the diffuser is pushed down towards bottom of pipe.



Service Instructions

FILTER ASSEMBLY

The cartridge filter and the diffuser itself will need cleaning from time to time.

The cartridge filter is removed by the following steps.

1. Turn Ozone Generator off using on/off switch on unit
2. On the inside of the In Deck Filter module - remove the diffuser and 90 degree wall fitting.
3. Unscrew the red Chlorine Cartridge birdcage. If unit has chlorine cartridge attached - this must also be removed at this time.
4. Now gently pull the cartridge element from the body. Hose off unit debris is gone.
5. Reverse steps for installation.



Ozone Diffuser



The Ozone Diffuser will last for many years since it is made of materials specifically designed for ozone gas utilization BUT it will become very visibly "dirty" from all the materials the ozone gas is oxidizing from the water. The diffuser is at this initial oxidation point. The ozone diffuser will turn from its normal white to a dirty brown or in some cases even black. There can be also evidence of redish material which can be an indicator metal particulates in the pool water. This is usually only seen on pools that have been filled from well systems.

The ozone diffuser can be cleaned by soaking in vinegar or lemon juice. These mild acids will remove oxidized debris from ozone diffuser surface. We recommend that you have 2 Ozone Diffusers on hand so that they can be simply exchanged during cleaning, allowing dirty diffuser to soak till clean.

Also these can be cleaned with liquid Muratic Acid. This will quickly clean the Ozone Diffuser.

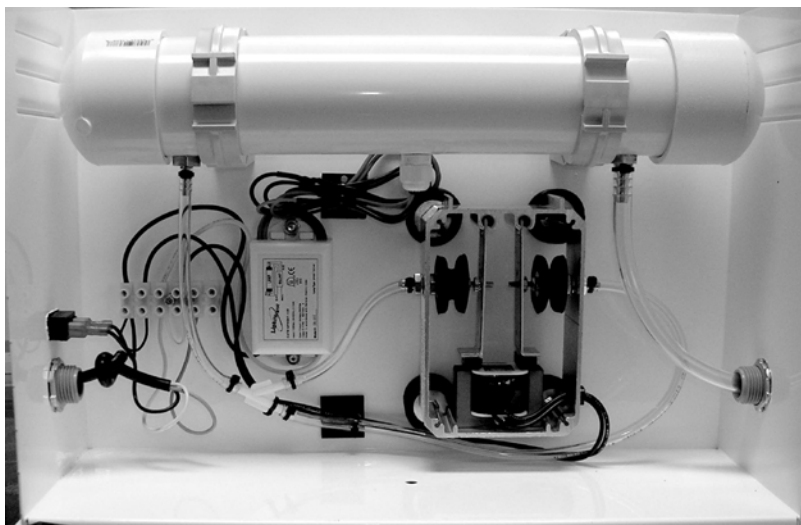
PLEASE BE VERY CAREFUL IN THE USE OF THIS MATERIAL AS IT IS EXTREMELY HARMFUL. LIQUID MURATIC ACID IS USED TO ADJUST Ph IN SWIMMING POOLS.

Service Instructions

OZONE BULB REPLACEMENT

The Ozone Bulb assembly should be replaced every 36 months -EVEN IF IT IS STILL OPERATIONAL.

The Ozone Bulb assembly has been made so that anyone can replace these easily and quickly.



1. Turn off circuit breaker that supplies power to the Ozone Generator.
2. Disconnect the 4 wire connector so that you have 2 halves.
3. Remove the hose from each end of the ozone bulb assembly.
4. Final step is to push down on the middle of each clamp until they clamps union comes apart. You will have to do each clamp individually. The Ozone Bulb assembly is now removeable from can assembly.
5. Insert new ozone bulb assembly and reinstall going from steps 4 to 1.

TROUBLESHOOTING GUIDELINES

There can be only 3 areas to check if you think your Perfect Pool PP2 or PP3 is not operating correctly: The Ozone Generator air pump (1) - the ozone bulb assembly (2) or the Ozone Diffuser

In most all cases utilizing a small vial of Phenol Red dye (#2) available at any pool store or store selling pool chemicals. Pheno Red is used to test swimming pool Ph.

1. The first thing to check is to ensure that power is going to the Ozone Generator unit.
2. To check for proper operation off these units - open lid assembly and pour in Phenol Red solution.
3. If unit is operating correctly - you will see a PURPLE dye coming from the Perfect Pool return wall fitting in pool. This verify's that the air pump is working - air hose is connected and clear - diffuser is clean enough for bubble operation AND that the ozone bulb is still producing ozone as it's oxidized the Phenol Red to purple.
4. If Phenol Red enters pool still RED in color this is an indication that the Ozone Bulb needs replacing - replace per instruction and rerun Phenol Red test to verify proper operation.
5. Upon opening of In Deck Filter assembly and there is no bubbles being generated then there check to ensure power is on - air pump is operating and air tubing is still connected between Ozone generator and Filter. If not identify where problem is and repair. Contact Customer Service for additional information.
6. Always check Ozone Diffuser & Filter anytime there is low flow rate coming back into pool. Clean as necessary to achieve correct flow rate.



PRODUCT REGISTRATION

3 Ways to Register your product:

1. Complete this form on-line and email to: CS@proaguaproducts.com
2. Print the form out and fax to: 1.855.996.6900
3. Mail the form to: ProAgua Products, 3100 Pennington Road, Orlando Florida 32804

NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____

ZIP CODE: _____

EMAIL: _____

MODEL:

- PP-1 OZONE GENERATOR
- PP-2 IN-DECK OZONATION MODULE + OZONE GENERATOR
- PP-3 IN-DECK OZONATION & FILTRATION MODULE + OZONE GENERATOR

SERIAL NO. : _____

Proagua Products will ship you 1 FREE Ozone Diffuser upon the registration of your Perfect Pool unit. This will allow for instant ozone diffuser swap outs when cleaning is necessary without have to wait.

Thank you again for your Perfect Pool purchase and welcome to the best pool water possible.

LIMITED WARRANTY

Proagua Products (herein referred to as “the Company”), warrants its products, to be free from defects in material and/or workmanship, under normal condition, use and service, for a period of ONE(1) year from the date of sale for use.

This specific warranty is for parts only and specifically excludes all labor charges associated with warranty items.

TERMS AND CONDITIONS:

This warranty only applies when the Company’s products are properly wired and installed together as a system; and operated within the electrical values shown on the Company’s specification sheets; used designed and approved for the application and environmental conditions (temperature, humidity) within the normal specified operating range of the system. This warranty does not apply to any abnormal use in violation of any applicable standard, code or instructions for use in installations including those contained in the latest National Electrical Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), Standards for the American National Standards Institute (ANSI), in Canada, the Canadian Standards Association (CSA), Europe (CE), Australia (C-Tick). This warranty will not apply in the event of conditions demonstrating abnormal use or stress, including under/over voltage conditions, excessive switching cycles, alterations, accident, theft, misuse, abuse and damaged caused by negligent installation, improper maintenance or where adequate care has not been taken to prevent damage to the system. Replacement of the Company’s product components with any other manufacturers will void the entire warranty.

WARRANTY SERVICE CLAIMS:

The Company must issue a Return Material Authorization (RMA) number for all requests for warranty review. To expedite service, please contact the Company’s Customer Representative where you purchased the product. If you are unsure whether a situation exists that is covered by this warranty, please contact the Company’s customer service department from the Company or division where you purchased the product for assistance. In the event of a defect in material or workmanship during the warranty period, the Company will repair or replace (at its own discretion) its products under the conditions of the warranty.

A complete list of the Company’s brands and their warranty service contact information can be found at the end the warranty.

RETURN OF DEFECTIVE PRODUCT:

After contacting the proper company or division and receiving the RMA#, the purchaser / user shall promptly return the product after receiving instructions regarding if, when and where to ship product. Product must be returned within 30 days of receiving RMA#. Shipping box must be clearly marked with RMA#. Failure to follow this procedure shall void this warranty. The Company will cover expenses for material but will not cover shipping costs. Products returned without an RMA# will be refused and returned to sender at the senders expense.

REPLACEMENT OF PRODUCT, LIMITS OF LIABILITY:

The foregoing shall constitute the exclusive remedy of the purchaser and the sole liability of the Company regarding its products and component warranty. **NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED.** In no event shall the Company be liable for any other costs or damages including labor charges, lost profits or revenues, incidental, special or consequential damages. The Company reserves the right to examine all failed products and components to determine the cause of failure and patterns of usage and reserves the right to be the sole judge as to whether any product or component is defective and covered under this warranty. **THIS WARRANTY IS ONLY TO THE ORIGINAL PURCHASER OF PRODUCT AND DOES NOT TRANSFER.**

7.2019