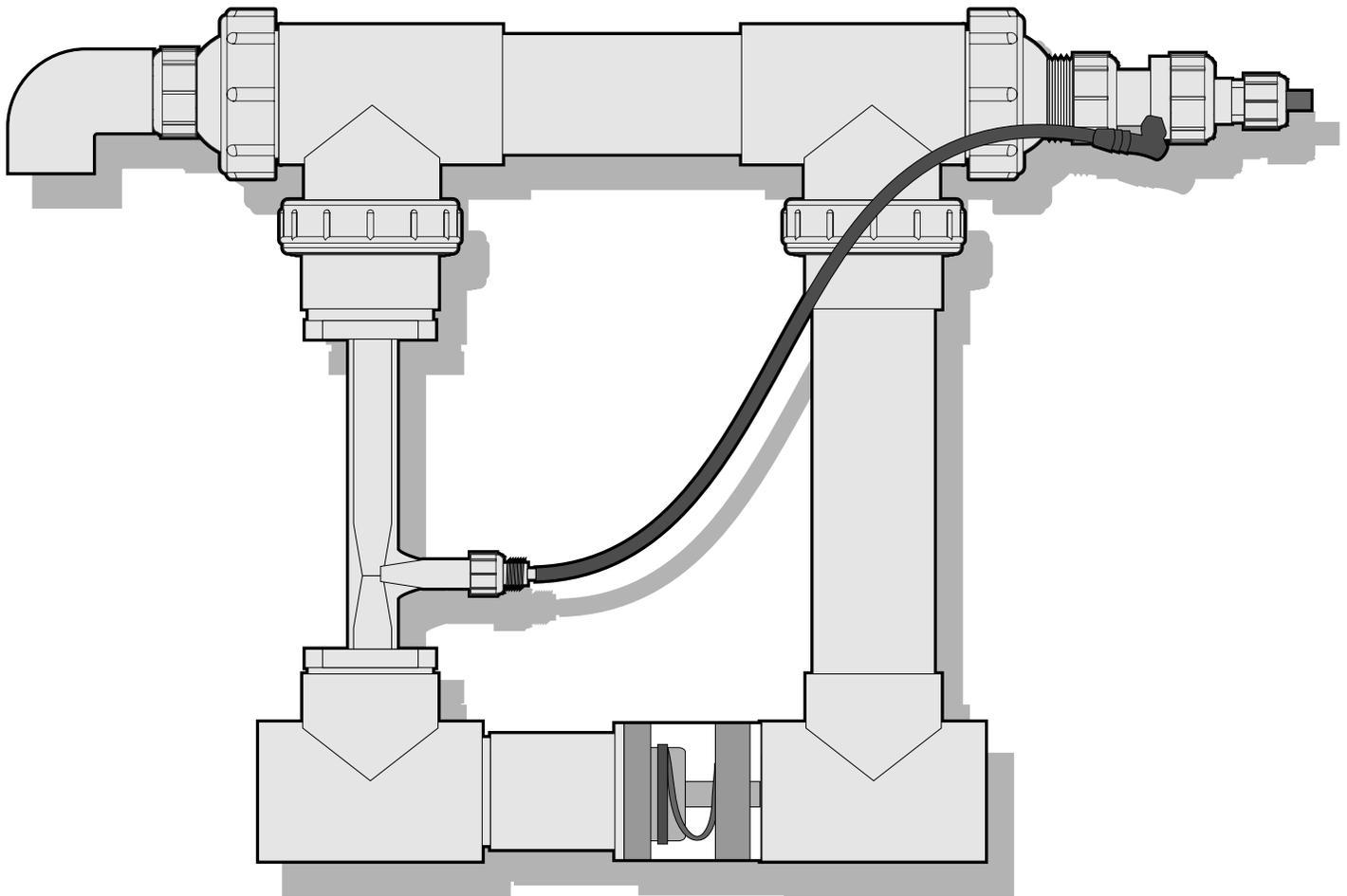


R

RENAISSANCE

Pure Water From UV and Ozone

Installation and Operating Instructions



solaxx[®]
Water Treatment Solutions

www.solaxx.com

SAFETY INSTRUCTIONS

-  **CAUTION** - This product should be installed by a professional service technician or similar person who is qualified in electrical equipment installation. Improper installation and/or operation could cause serious personal injury, property damage or death. Improper installation and/or operation will void the warranty.
-  **CAUTION** - The device must be connected only to a supply circuit that is protected by a Ground Fault Circuit Interrupter (GFCI). **FAILURE TO CONNECT THIS DEVICE TO A GFCI SUPPLY CIRCUIT COULD RESULT IN ELECTRICAL SHOCK CAUSING SERIOUS BODILY INJURY, INCLUDING DEATH.**
-  **WARNING - ELECTRIC SHOCK** - Disconnect all AC power during installation or performing any service work
-  **CAUTION** - To prevent possible fire or electrical shock, use only replacement lamp specified by the manufacturer.
-  **CAUTION** - Do not use Renaissance if cord is damaged or frayed.
-  **CAUTION** - Lamps and quartz sleeves are made of glass and are extremely delicate. Care should be taken when handling or replacing these components. Wear cotton gloves when handling lamps or sleeves. Hold bulbs by the ends only. Never touch the glass with bare hands. Wipe any fingerprints from lamps and sleeves with rubbing alcohol.
-  **CAUTION** - This device is for use on private residential swimming pools less than 35,000 gallons. Do not use this device for potable (drinking) water sanitization.
-  **DANGER - ULTRAVIOLET RADIATION.** Disconnect Power Before Replacing Lamp . This device contains an ultraviolet lamp that can cause discomfort, irritation and damage to the eyes if viewing occurs while device is in operation. Prolonged exposure to the eyes can cause serious injury to the eyes, including blindness. **DO NOT DIRECTLY VIEW UV LAMP WHILE THE DEVICE IS IN OPERATION.**

SAVE THESE INSTRUCTIONS

Specifications:

Max Pool Size: 35,000 Gallons

Shipping Weight: 15 pounds

Connections: Two inch pipe connections on manifold

Location Requirements: Power supply is wall mounted near the manifold and wired to the same source power as the pump.

Input Power: 120/240VAC 60Hz

Power Consumption: Less than one Amp.

Max Operating Pressure: 50 psi

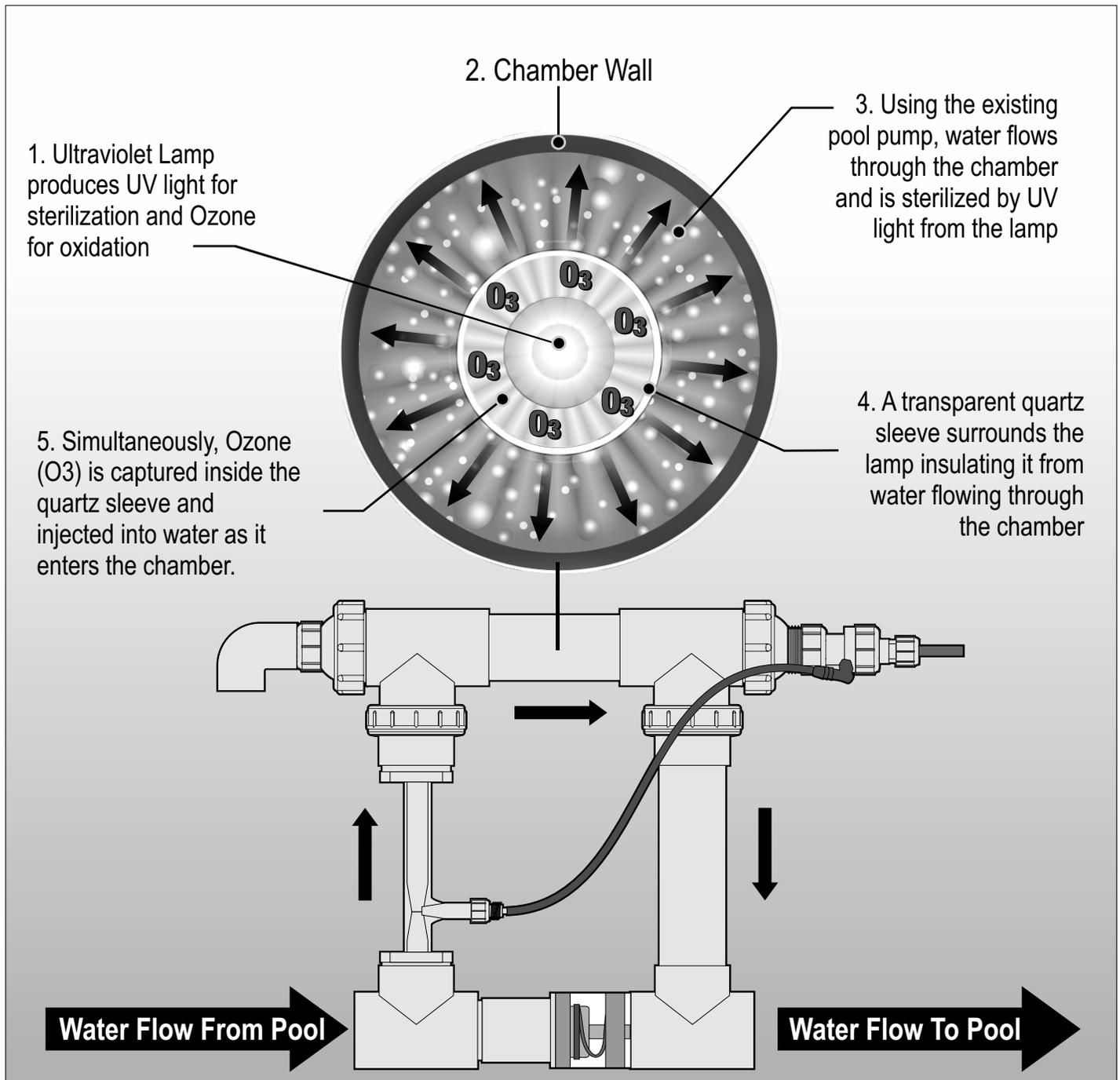
Operating Flow Range: 15-120 GPM

Bulb: 57 Watt UV 13,000 hour life expectancy

DESCRIPTION

Renaissance combines an Ultraviolet Sterilization Chamber with Ozone (O₃) disinfection to treat your water. These two powerful processes eliminate 99.99% of all contaminants in water and reduce the use of pool chemicals up to 80%. No toxic chemicals are used, no metals or minerals, only pure light and pure oxygen.

Using the existing pool pump, a specific amount of water is diverted into the UV/Ozone chamber where it is sterilized to the quality of drinking water. Oxygen infused water is reintroduced into the water flow where it continues to oxidize contaminants in the pool itself. A microscopic residual of chlorine (.5-1.0 ppm) is recommended for use with Renaissance as a supplemental source of disinfection. For best results, the pool pump should run at least 12 hours daily, (optimally 24 hours daily) for highest savings in chemical usage and cost.



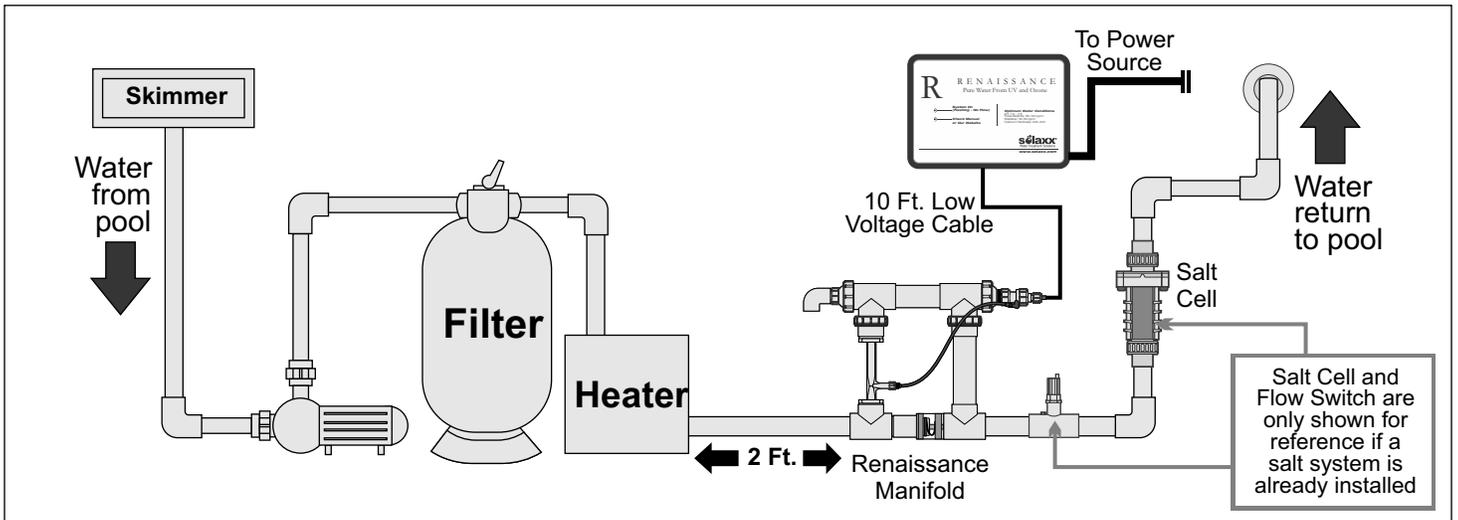
INSTALLATION



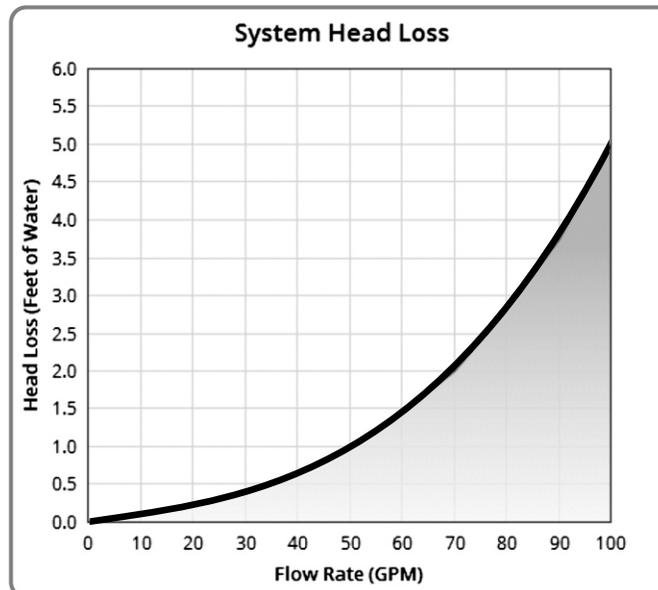
- TURN OFF ALL POWER TO EXISTING EQUIPMENT AT THE BREAKER SWITCH.
- BEFORE STARTING INSTALLATION, YOU MUST READ THIS MANUAL IN ITS ENTIRETY TO ASSURE A SAFE INSTALLATION.

• 1. PLUMBING:

Always mount the manifold on the main return line before the pipe splits into returns for spa, water features, etc. Install downstream of the heater and before any chlorinators (salt or erosion or feed). If space allows, install manifold two feet away from the heater to avoid possible safety shutdown of Renaissance due to hot water conditions in the chamber.



- A) The Renaissance manifold requires a 12 inch opening in the PVC pipe.
- B) Clean the ends of the PVC pipe and glue the Renaissance manifold into opening in the position shown above.
- C) If existing pipe is sized smaller or larger than 2 inch, use adapters to glue manifold (not provided)
- D) Water flow is automatically diverted into the UV/Ozone chamber at the proper flow rates. Restriction to the plumbing is nominal when the manifold is inserted into the plumbing and is comparable to adding a heater to the pool.



INSTALLATION

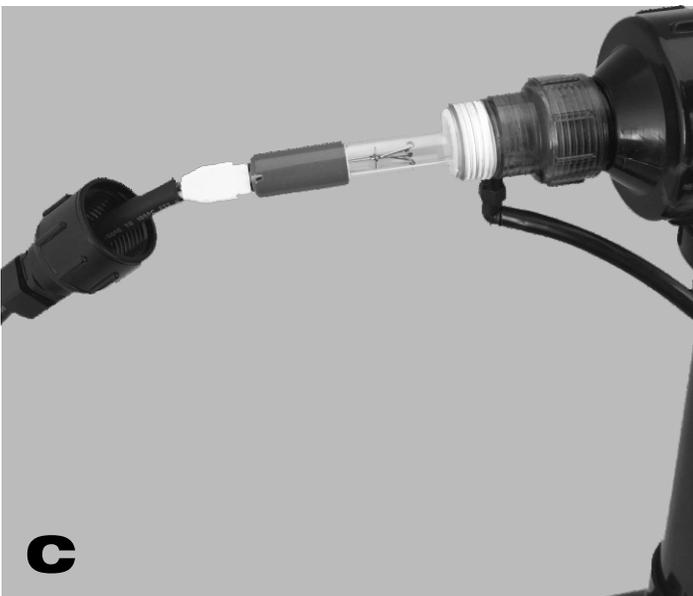
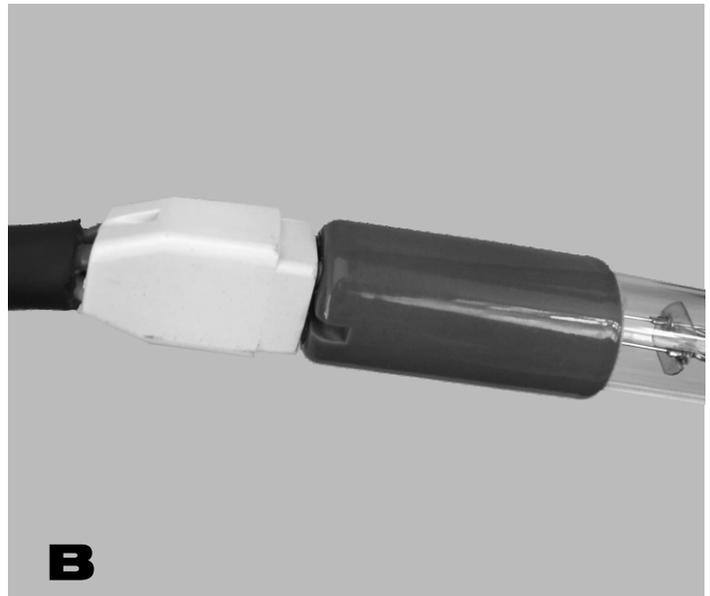
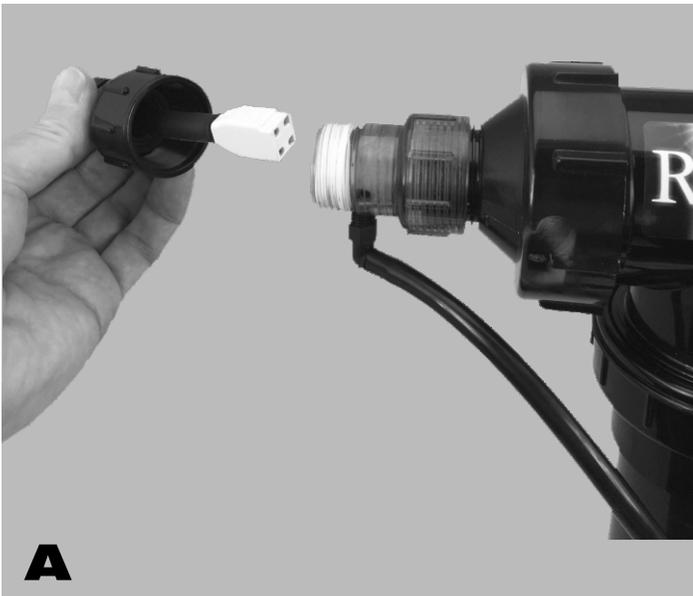
2. INSERT BULB INTO CHAMBER:



IMPORTANT:

HANDLE THE BULB BY THE ENDS ONLY AND AVOID TOUCHING THE CLEAR GLASS OF THE BULB. IF POSSIBLE USE COTTON GLOVES TO HANDLE BULB TO AVOID GETTING OILS FROM HANDS ON THE BULB. SKIN OILS ATTACH TO THE BULB AND SHORTEN ITS EFFECTIVE LIFE. IF BULB IS TOUCHED, WIPE CLEAN WITH A SOFT CLOTH AND RUBBING ALCOHOL.

- A. Unthread and remove the end cap with the wire attached from the end of the UV chamber
- B. Plug the 4 prong plug into the end of the UV bulb
- C. Slide bulb back into chamber
- D. Rethread cap back onto chamber fitting (hand tighten only)



INSTALLATION



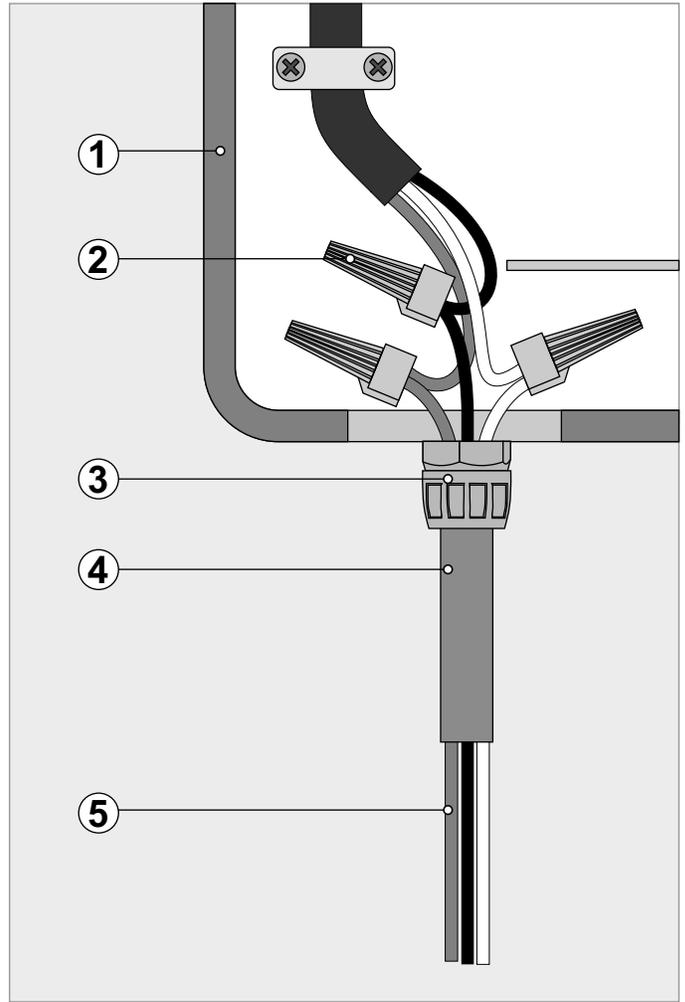
3. ELECTRICAL CONNECTIONS:
CAUTION: TURN OFF ALL POWER TO THE POOL EQUIPMENT BEFORE CONNECTING THE RENAISSANCE POWER SUPPLY TO ANY ELECTRICAL SOURCE. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH!



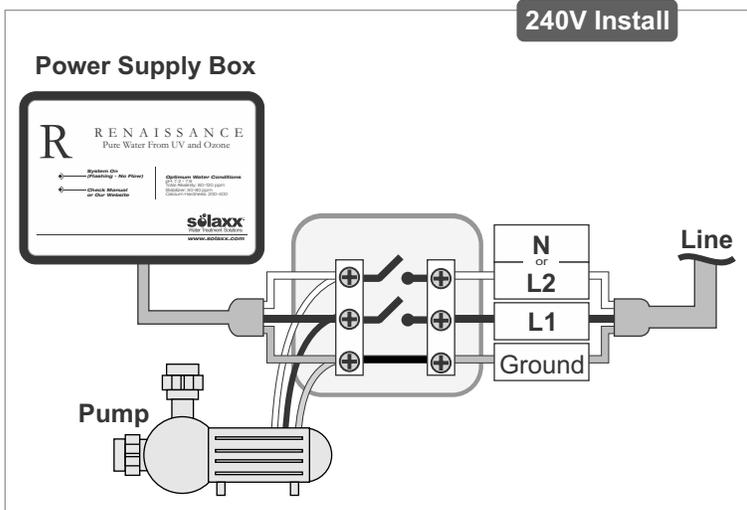
FOLLOW ALL APPLICABLE ELECTRICAL CODES

1. Cover of the Junction Box
2. Wire Connectors
3. Liquid-Tight Conduit Fitting (1/2 inch)
4. Liquid-Tight Conduit (1/2 inch)

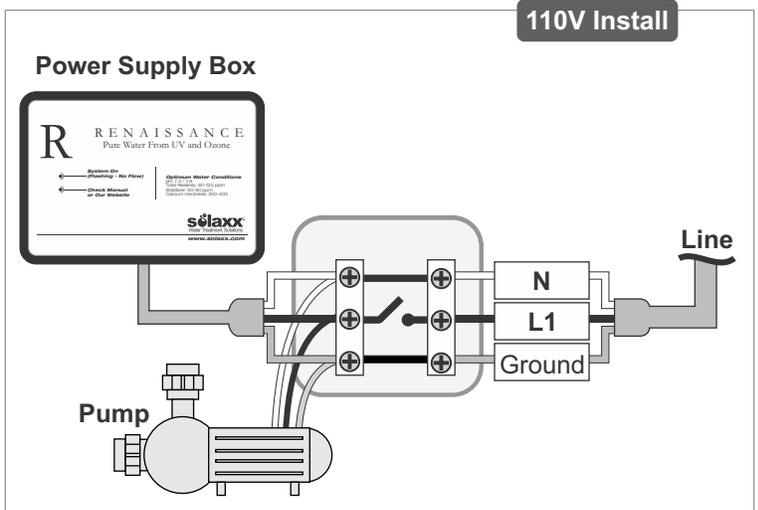
5. Wires to be connected to either a circuit breaker, automation system or variable speed pump.



240V Install



110V Install

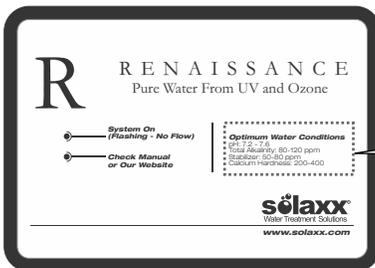


POOL WATER PREPARATION

1. OZONE IS NOT COMPATIBLE WITH *BIGUANIDE* BASED WATER TREATMENT SYSTEMS. BRAND NAMES FOR THIS TYPE OF TREATMENT MAY BE CALLED *BAQUACIL*, *REVACIL* OR POSSIBLY OTHERS.

CHECK WITH YOUR POOL PROFESSIONAL TO BE SURE YOUR POOL IS NOT USING A *BIGUANIDE* TREATMENT PROGRAM. IF SO, THE *BIGUANIDE* MUST BE NEUTRALIZED BEFORE OPERATING THE RENAISSANCE SYSTEM. CHLORINE FROM CHEMICALS OR SALT SYSTEMS ARE NOT A PROBLEM AND RENAISSANCE MAY BE STARTED WHILE USING CHLORINE.

2. Test pool water and adjust pH, total alkalinity, calcium hardness, stabilizer and phosphate levels before starting system. See Table below.



Optimum Water Conditions

pH: 7.2 - 7.6
 Total Alkalinity: 80-120 ppm
 Stabilizer: 50-80 ppm
 Calcium Hardness: 200-400

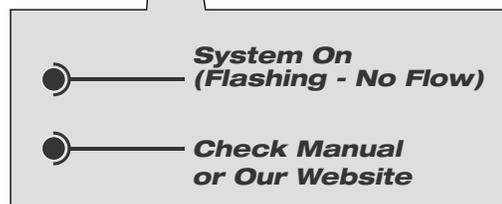
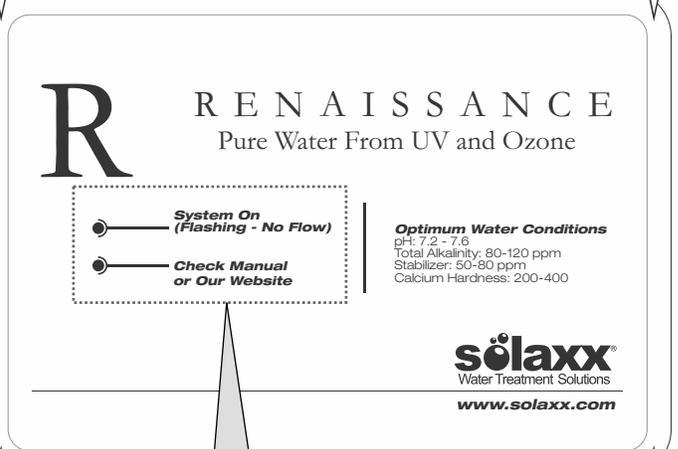
OPERATION

When power is supplied to the system, the perimeter of the power supply mirrors the LED lights in the center of the faceplate overlay in showing system status

- Steady Blue LED/Perimeter = system has power and is operating normally
- Flashing Blue LED/Perimeter = no flow to chamber. This could be caused by the pool pump losing its prime or from blockage in the plumbing. Check water flow through system.
- Steady Red LED/Perimeter = system error. This means an error has occurred in the power supply. Please go to www.fastirma.com to create an RMA form which will answered within 24 hours or next business day to resolve this issue.



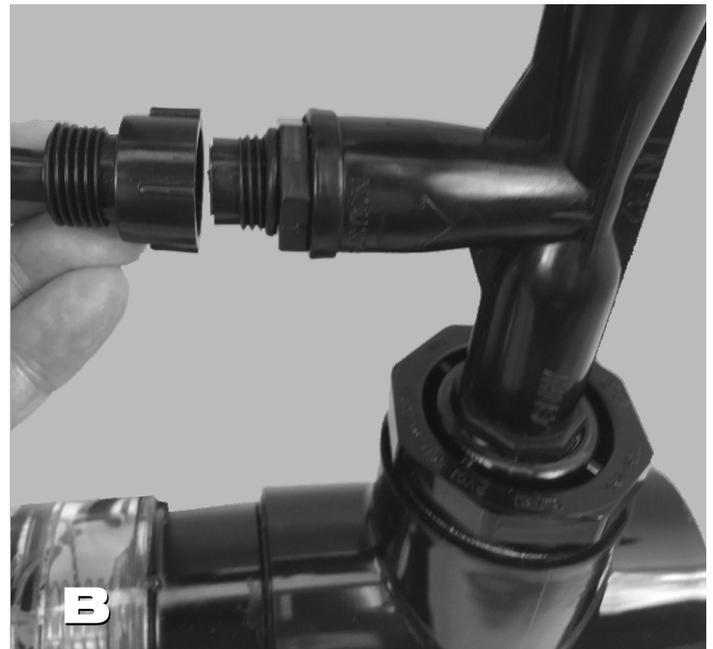
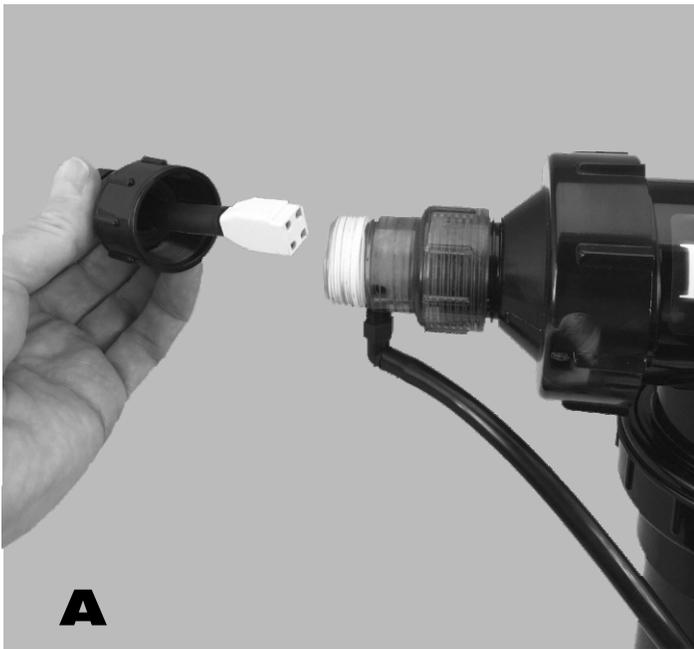
WARNING: DO NOT ATTEMPT TO OPEN THE POWER SUPPLY FOR ANY REASON. IT IS SEALED AND NOT DESIGNED TO BE REPAIRED IN THE FIELD. A DEFECTIVE OR NON FUNCTIONING POWER SUPPLY IS REPLACED WITH A NEW UNIT ONLY.



MAINTENANCE

WINTERIZING

- A. Unthread end cap from chamber with wire connection. Unplug bulb and GENTLY push bulb back into chamber
- B. Unthread tube connection to manifold (hold tube and turn nut)
- C. Unthread union nuts and pull chamber from top of manifold. The union nuts should be loosened by hand. Note: If channel locks must be used to loosen union nuts, wrap nut with cloth to prevent cracking or shredding the plastic union nut.
- D. Cover manifold openings with caps provided to seal openings. Wrap the 4 prong plug around the power supply so the plug is facing down and off the ground. Protect the plug by covering the openings with duct tape.



MAINTENANCE

BULB REPLACEMENT

The UV bulb is rated for 13,000 hours of service and can be monitored through the blue viewing ports at either end of the chamber. When the bulb requires replacement, follow this simple procedure:



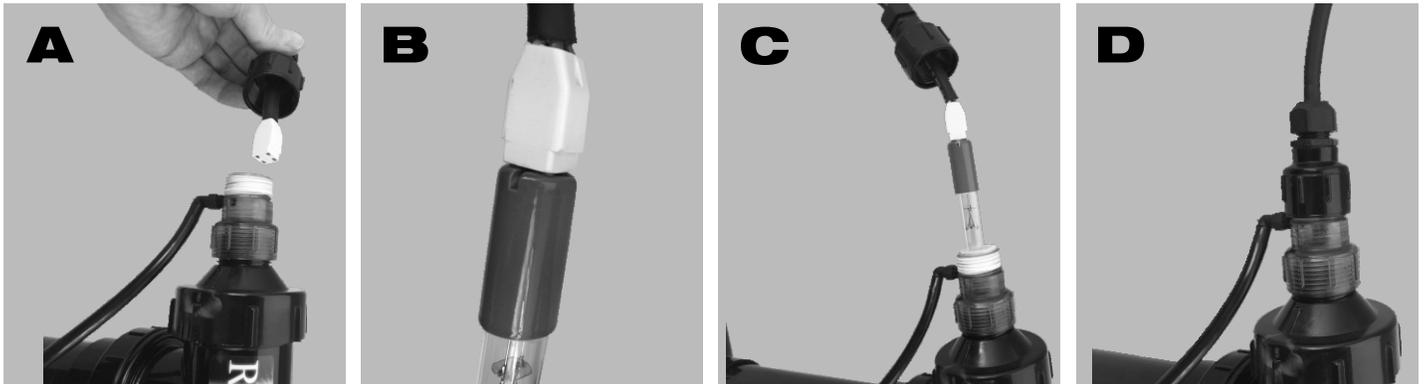
Shut off AC power to Renaissance before performing maintenance

Allow bulb to cool for 10 minutes before handling

- A. Unthread and remove the end cap with the wire attached from the end of the UV chamber
- B. Plug the 4 prong plug into the end of the UV bulb
- C. Slide bulb back into chamber
- D. Rethread cap back onto chamber fitting (hand tighten only)

IMPORTANT:

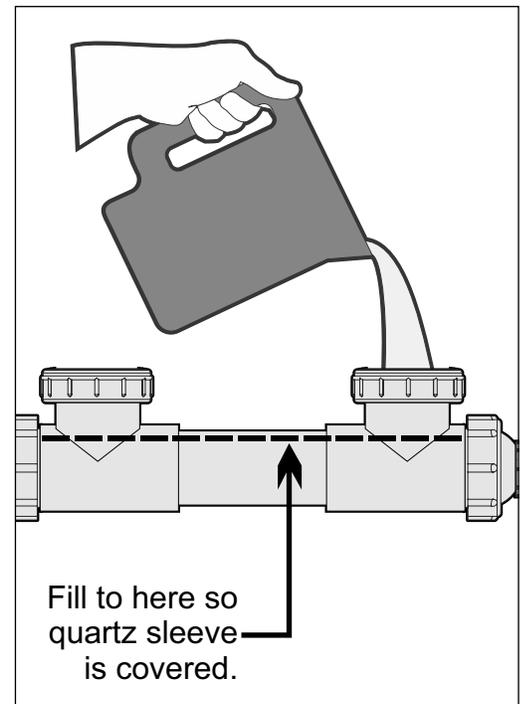
HANDLE THE BULB BY THE ENDS ONLY AND AVOID TOUCHING THE CLEAR GLASS OF THE BULB. IF POSSIBLE USE COTTON GLOVES TO HANDLE BULB TO AVOID GETTING OILS FROM HANDS ON THE BULB. SKIN OILS ATTACH TO THE BULB AND SHORTEN ITS EFFECTIVE LIFE. IF BULB IS TOUCHED, WIPE CLEAN WITH A SOFT CLOTH AND RUBBING ALCOHOL.



CLEANING THE QUARTZ SLEEVE

The quartz sleeve inside the UV chamber encases the UV bulb and should be cleaned while winterizing the system, or annually if system is installed on a pool running 12 months. The quartz sleeve is brittle and can be cracked, chipped or broken if it is not handled with care. Do not remove the sleeve or attempt to scrape or scrub the sleeve as it could crack or break it.

- After removing the top chamber as shown in WINTERIZING section, turn the chamber over so the openings face up.
- Using CLR or Lime Away or a comparable cleaning product (available at grocery stores or home centers), pour into the chamber to cover the quartz sleeve with the liquid and allow to soak for 30 minutes. Dispose of cleaning solution by following instruction on the cleaning solution container.
- Rinse the quartz sleeve with isopropyl alcohol to remove any remaining residue from the sleeve.
- Rinse the sleeve again with water.
- Allow to dry before reinstalling.



WARRANTY

1. Introduction

This limited warranty is applicable to certain UV/Ozone systems installed for residential use. For purposes hereof, the term “residential use” shall be deemed to mean use of the System within any pool installed for personal use at a single family home. This warranty is transferable to subsequent owners of the system during the warranty period provided the location of the system is unchanged from the original installed location.

2. Three Year Limited Warranty

This warranty applies to this UV/Ozone system and their factory-supplied components (the “System”) when purchased from an authorized dealer and used for residential swimming pools. The System is warranted to be free from defects in materials and workmanship in the manufacturing process for a period of Three (3) years from the original purchase date. Should the system exhibit a manufacturing defect within the first two years of this warranty period, when properly installed and operated in accordance with the relevant manuals, the manufacturer will supply comparable replacement parts for the system according to its judgment without charge for parts. Should the power supply or cell exhibit a manufacturing defect during year three of this warranty period, when properly installed and operated in accordance with the relevant manuals, the manufacturer will supply comparable replacement parts for the power supply or cell according to its judgment at a price not to exceed 60% of the current Manufacturer's Suggested Retail Price in effect at the time of the warranty claim. This warranty is applicable only if the unit is installed, operated and maintained in accordance with the procedures outlined in the Owner's Manual. Failure to do so will void this limited warranty. Warranty work should be performed by the authorized dealer who made initial installation. Pool water must be tested regularly in order to properly maintain its chemical balance. Problems or equipment failures resulting from the failure to maintain pool water chemistry in accordance with guidelines set forth in the Operation Manual will void the warranty. Customer releases and holds the manufacturer harmless from any and all claims attributable in whole or in part to their failure to comply with the foregoing guidelines concerning maintenance of pool chemistry.

3. Exceptions & Liability Limitations

The manufacturer, and their suppliers, dealers, and distributors SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES; DAMAGE OF ANY SORT OR NATURE RESULTING FROM ABUSE, MISUSE, NEGLIGENCE, LIGHTNING, ABNORMAL WEATHER CONDITIONS, OR ACT OF GOD; OR DAMAGE CAUSED BY IMPROPER OR UNAUTHORIZED USE, INSTALLATION OR REPAIR. This warranty applies only to components supplied by the factory and only where such components have been installed and maintained in compliance with the respective installation and operation manuals and instructions and applicable ordinances and codes. In no event shall the liability exceed the purchase price of the product. THE CONSUMER SHALL BE LIABLE AT STANDARD RATES FOR ANY SERVICE VISIT WHERE NO MANUFACTURING DEFECT WAS PRESENT AND FOR ALL SERVICE REQUESTED. This warranty shall be void if Customer modifies the Unit in any respect including, but not limited to the use of parts other than genuine manufacturer parts. If this inline salt chlorination system is installed for use on a commercial (non residential) pool, this warranty is void.

4. How To Make A Claim

An authorized representative will repair or replace, at its option, a system or part proved to be defective within the warranty periods and under the conditions of this limited warranty. This limited warranty is void if the Control Center has been tampered with (there are no user serviceable parts inside). The Customer must arrange prepaid shipping for servicing of the warranted items after proper authorization (call 561-455-0252 ext 2). No packages will be accepted without a manufacturer issued Returned Merchandise Authorization (RMA).

5. Entire Warranty

The express warranty above constitutes the sole and complete warranty and takes precedence over all other warranties, whether expressed or implied, including a warranty for fitness for a particular purpose. No sales representative, dealer, distributor, or other person is authorized to give any warranty on behalf of the manufacturer. Some states do not allow limitations on how long an implied warranty lasts, prohibit the exclusion or limitation of incidental or consequential damages, or impose limitations on the scope of implied or express warranties (and the waivers therein) that may be inconsistent with the express limitations set forth in this warranty. In such states, the above limitations may not apply to you, or their application to you may be limited. This limited warranty shall be enforceable to the fullest extent permitted by applicable federal, state and local law. This limited warranty is valid only in the United States of America. You may have other rights depending on the state in which you live.

6. Proof of Purchase

The consumer is responsible for establishing the original purchase date and the purchaser's identity for warranty purposes. The consumer is responsible for filling out the Warranty form and to send it to the manufacturer or completing the warranty registration form on www.solaxx.com. We recommend that a bill of sale or some other appropriate payment record be kept for that purpose.

7. Warranty Registration

It is not necessary to register your product in order to activate your warranty. If a warranty claim is made, proof of purchase will be required in order to process the claim. **SAVE ANY RECEIPTS AND PROOF OF PURCHASE ASSOCIATED WITH THIS PRODUCT.**

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