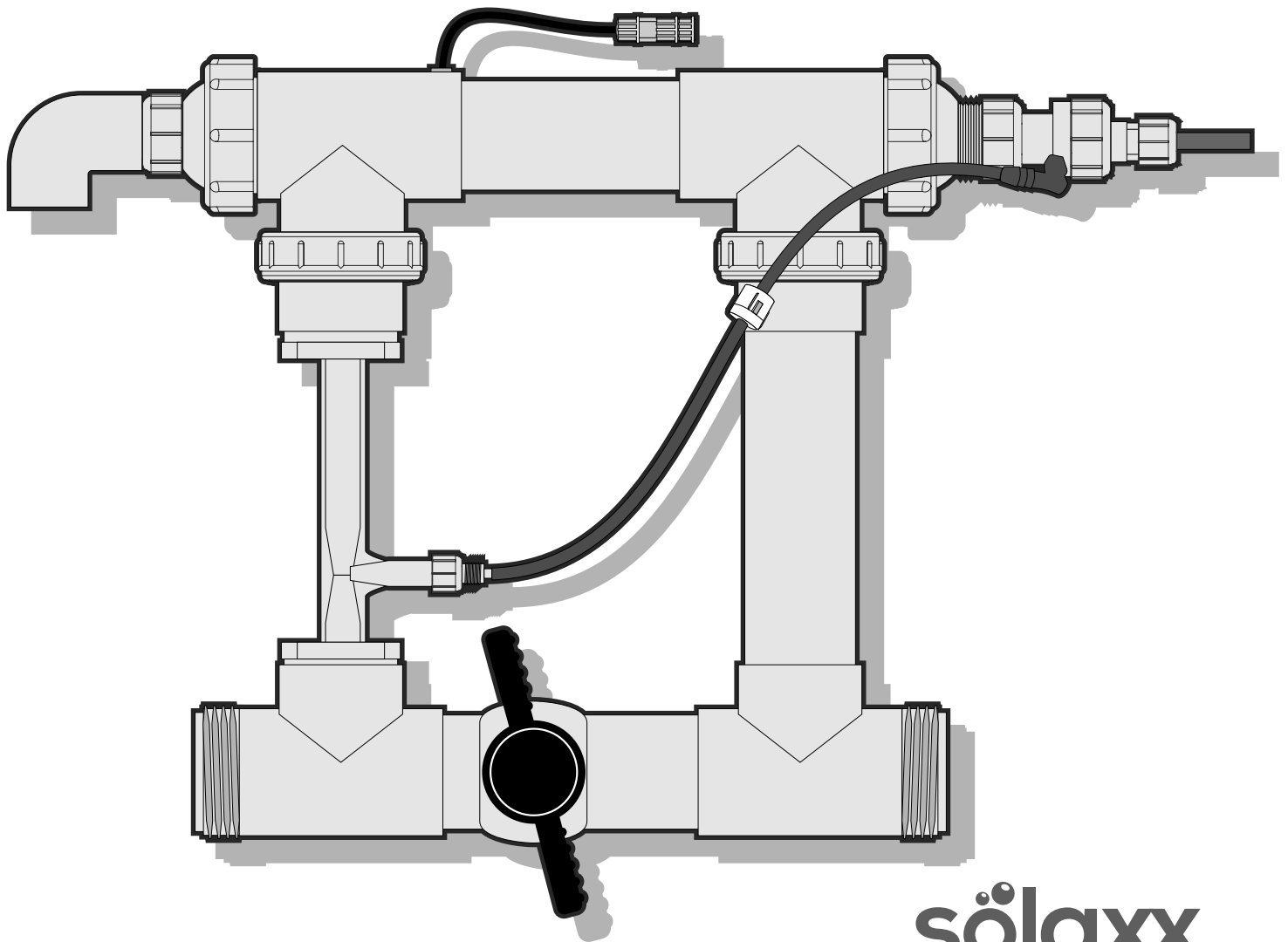


R

RENAISSANCE

Pure Water From UV and Ozone

Installation and Operating Instructions



söla[®]xx
WATER TREATMENT SOLUTIONS

An **AWG** Company

www.solaxx.com

SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

- ⚠ **WARNING** – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.
- ⚠ The unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.
- ⚠ **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- ⚠ **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** - To reduce the risk of personal injury the power supply must be installed on and wired to the load side of the time clock, electronically controlled switch, or relay load side, so that it will receive power only when the pool pump is on. The Power supply should never be energized when water is not flowing through the unit.
- ⚠ **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 system 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 swimming pools less than 40,000 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.
- ⚠ **ENVIRONMENTAL NOTICE** - Hg-Lamp CONTAINS MERCURY. Manage in accordance with disposal laws. See: www.lamprecycle.org

SAVE THESE INSTRUCTIONS *You may find a current version at www.solaxx.com*

Specifications:

Max Pool Size: Pools up to 40,000 Gallons

Shipping Weight: 17 pounds

Connections: Two inch pipe connections on manifold with two inch unions included

Location Requirements: Power supply is wall mounted near the manifold and wired to the same source power as the pump. Cord length between power supply and manifold is 9 Feet.

Input Power: 120/240VAC 60Hz

Power Consumption: 60 Watt max.

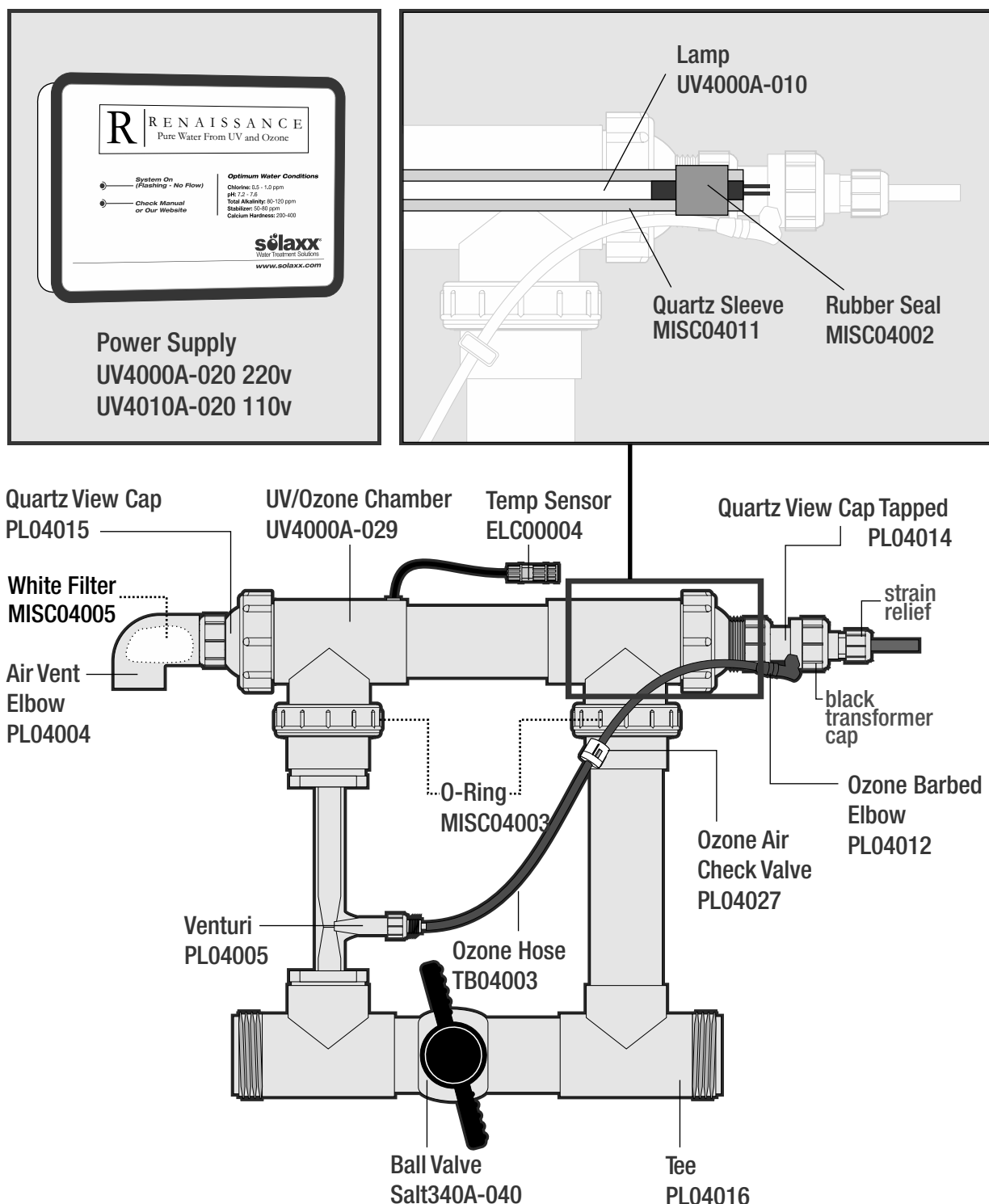
Max Operating Pressure: 50 psi

Operating Flow Range: 15-120 GPM

Bulb: 57 Watt UV 13,000 hour life expectancy

DESCRIPTION

The system combines an Ultraviolet Sterilization Chamber with Ozone (O₃) disinfection to treat your water. These two powerful processes eliminate 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 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. A microscopic residual of chlorine (.5-1.0 ppm) is recommended for use with this system 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

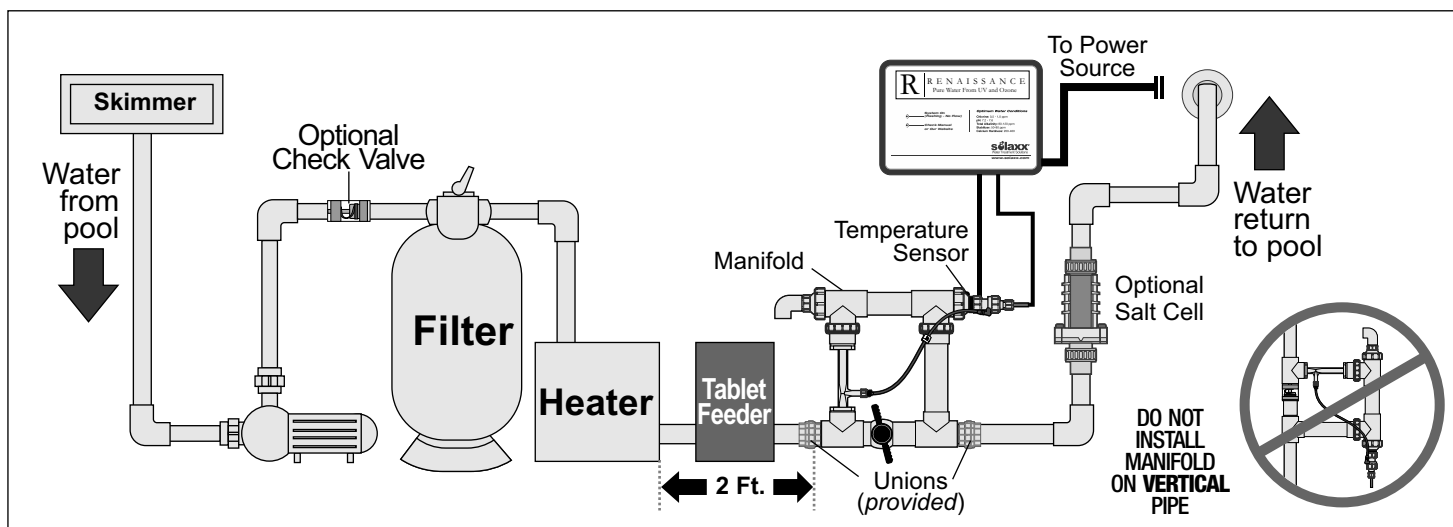


- TURN OFF ALL POWER TO EXISTING EQUIPMENT AT THE BREAKER SWITCH.
- BEFORE STARTING INSTALLATION, YOU MUST READ THIS MANUAL IN ITS ENTIRETY TO ASSURE A SAFE INSTALLATION.

1. PLUMBING:

Install manifold downstream of the heater and after chlorine tablet feeder. If space allows, install manifold minimum two feet away from the heater to avoid possible safety shutdown of the system due to hot water conditions in the chamber.

NOTE: SEE NEXT PAGE FOR INSTALL WITH INFLOOR CLEANING SYSTEM



A) Install the Renaissance into a 16 3/4 inch opening with a union on both sides to facilitate easy removal should it become necessary. Unions are provided for easy servicing and removal.

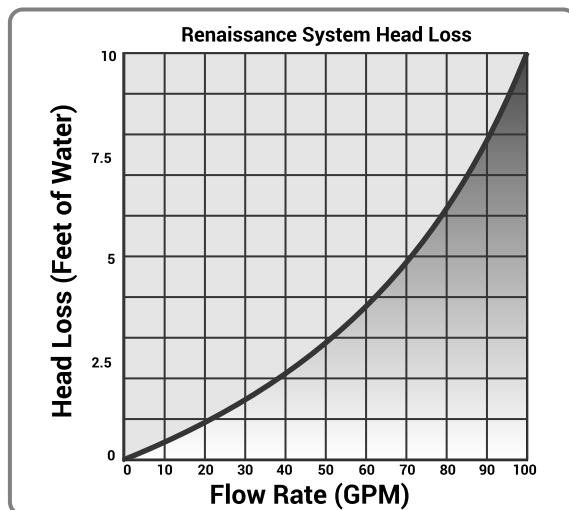
B) Clean the ends of the PVC pipe and glue the manifold into opening in the horizontal position shown above.

C) If existing pipe is sized smaller or larger than 2 inch, use adapters to install manifold (not provided)

D) Water flow is automatically diverted into the UV/Ozone chamber at the proper flow rates. Restriction to the plumbing is normal when the manifold is inserted into the plumbing and is comparable to adding a heater to the pool. See below:

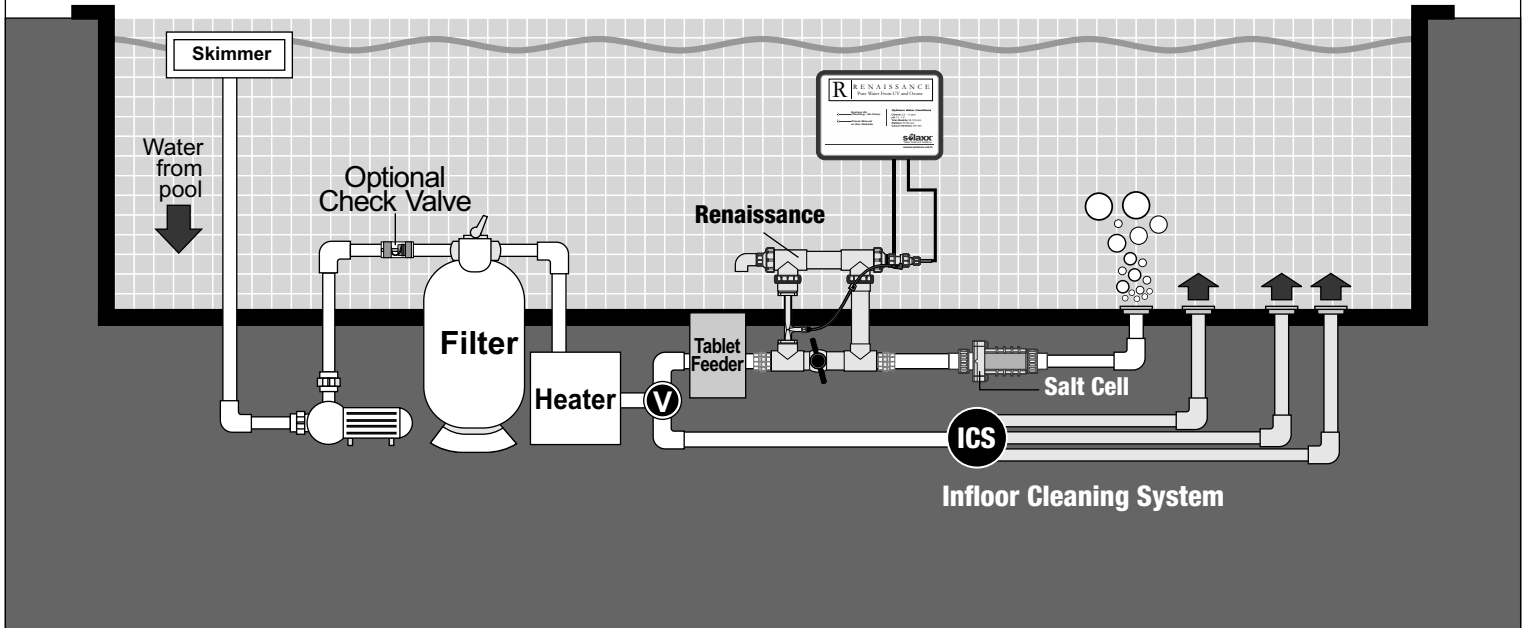
E) IMPORTANT: Install tablet feeder before (Upstream) of Renaissance manifold.

DO NOT ATTACH MANIFOLD DIRECTLY TO A 90° ELBOW. ALLOW AT LEAST 6 INCHES OF STRAIGHT PIPE ON EACH SIDE.

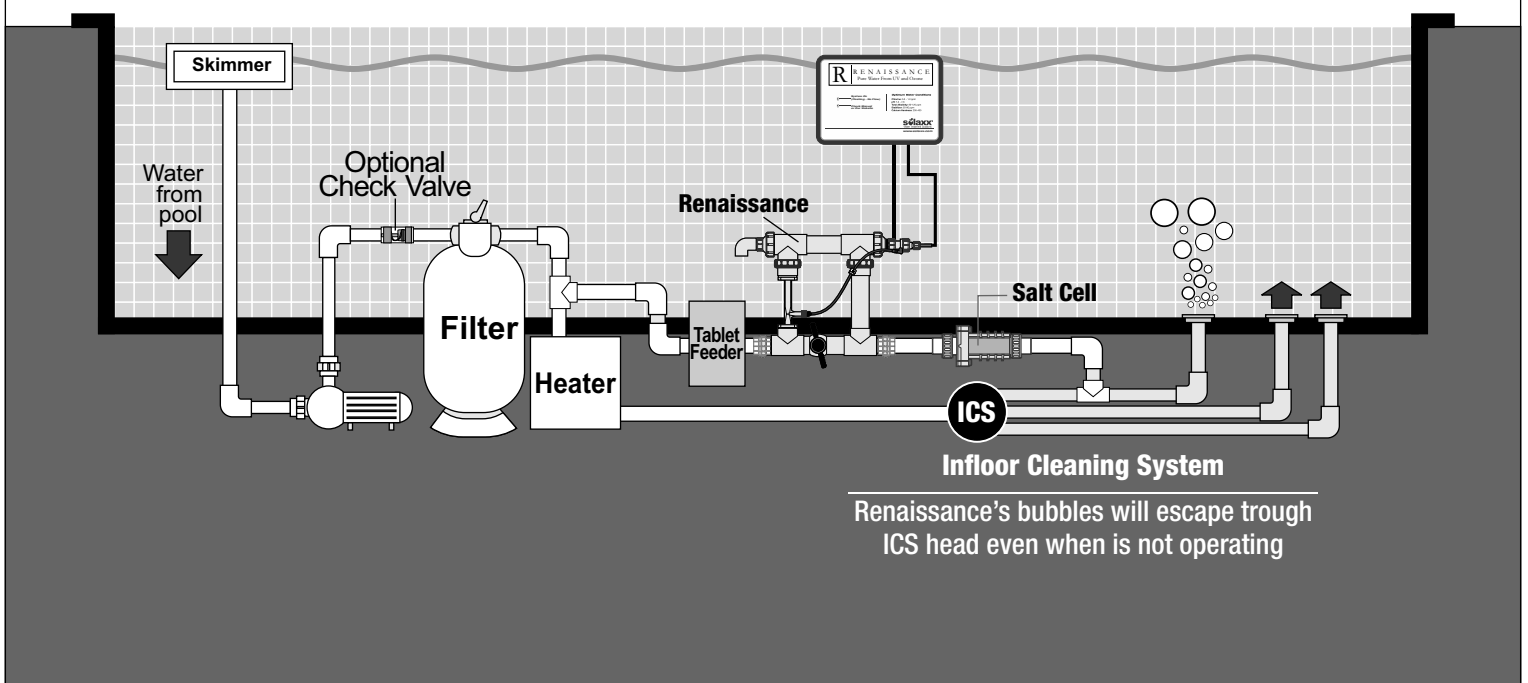


INSTALLATION

NEW POOL with Infloor Cleaning System



EXISTING POOL with Infloor Cleaning System



INSTALLATION

2. INSERT BULB INTO CHAMBER:



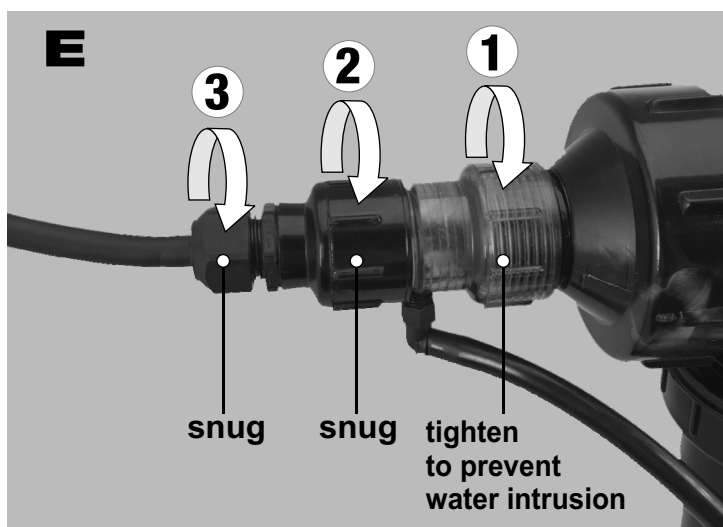
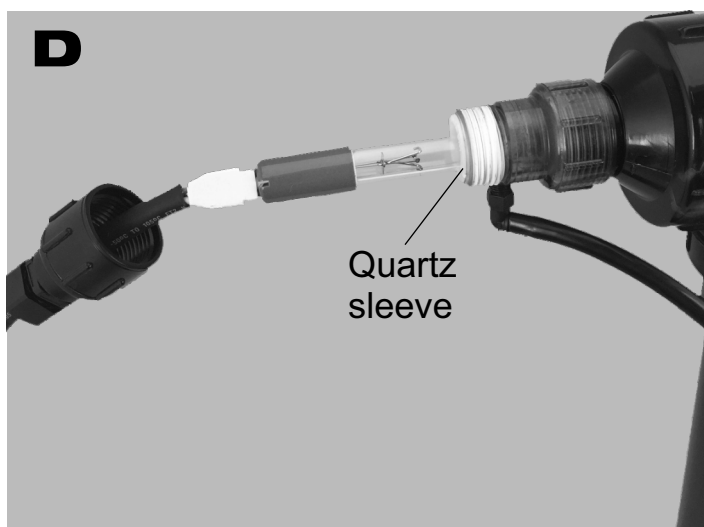
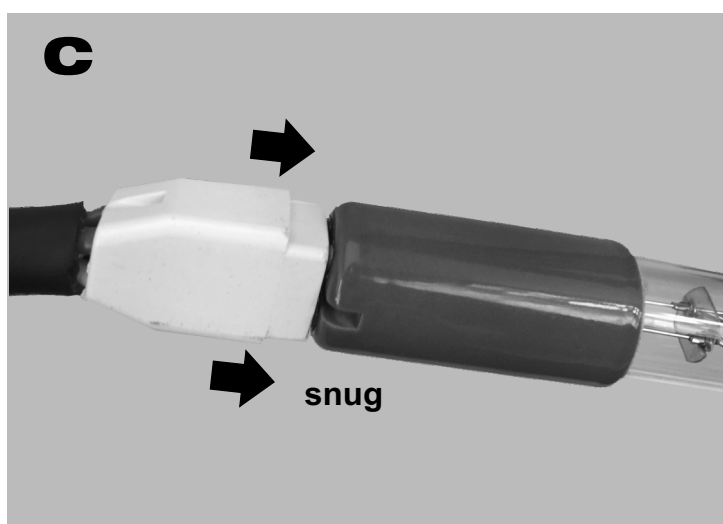
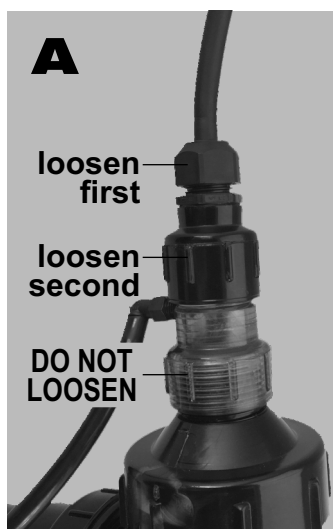
IMPORTANT:

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.



THIS ULTRAVIOLET RADIATION APPLIANCE CONFORMS TO THE APPLICABLE PROVISIONS OF THE CODE OF FEDERAL REGULATIONS (CFR) REQUIREMENTS, INCLUDING TITLE 21, CHAPTER 1, SUBCHAPTER J, RADIOLOGICAL HEALTH

- A. Unthread and remove the end cap with the wire attached from the end of the UV chamber, by first loosening the small black plastic nut, then the larger black nut to pull out plug.
- B. Plug the 4 prong plug into the end of the UV bulb. If lamp is not fully plugged in, damage to the unit may occur.
- C. Slide bulb **straight** into chamber - **Be careful, inserting the lamp at an angle, even a slight angle can crack the quartz sleeve.**
- D. Rethread blue cap back onto chamber fitting very snug to assure tight seal. BE SURE ALL THESE CONNECTIONS ARE SNUG TO ASSURE PROPER OZONE DELIVERY



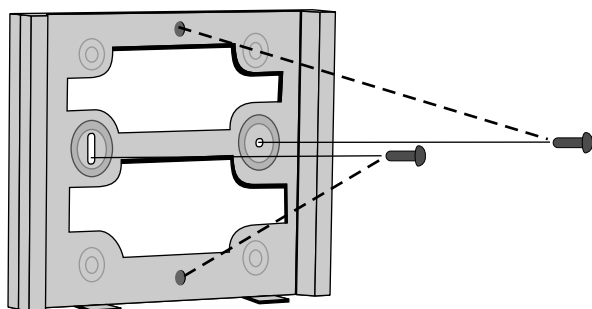
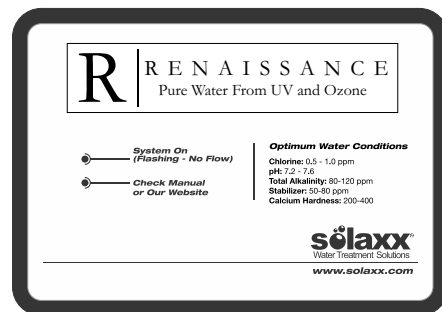
INSTALLATION

Mounting the Power Supply

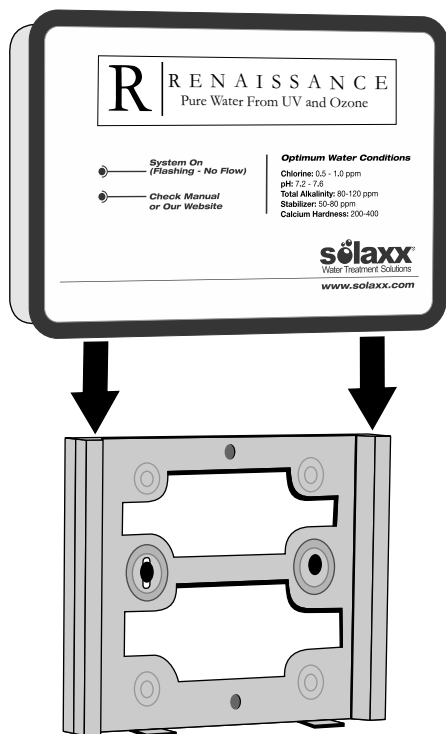


CAUTION: FOLLOW ALL APPLICABLE BUILDING AND ELECTRICAL CODES

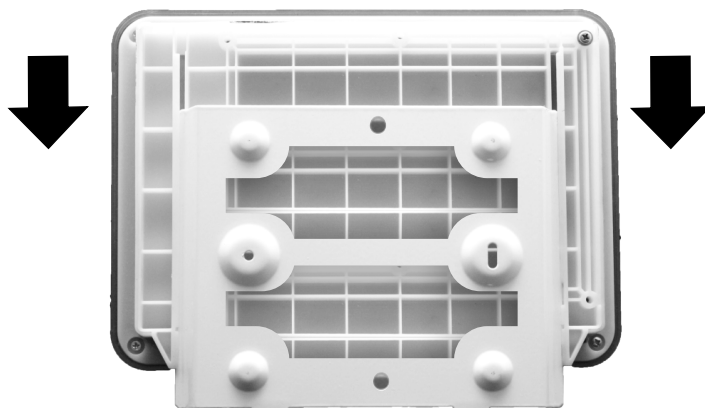
1. Before making any electrical connections, mount the power supply to a vertical surface. Since Renaissance is designed to turn on only when the pump is running, locate the power supply within 8 feet of the source power for the pump. The Renaissance power supply is wired to the same source power as the pump. See page 8 for electrical connections after mounting power supply.



2. Mount the aluminum bracket first on a vertical surface at a height of approximately five (5) feet above the ground using the screws provided with the spacers against wall to allow air flow behind bracket. Level the bracket using the oval hole for a clean installation. Dotted lines show alternate mounting holes for mounting on a post.



3. Once bracket is secured, slide the power supply down onto the bracket using slots on back of the power supply. Push down onto bracket gently until it hits the stops and is mounted securely in place.



INSTALLATION

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

USE COPPER CONDUCTORS ONLY

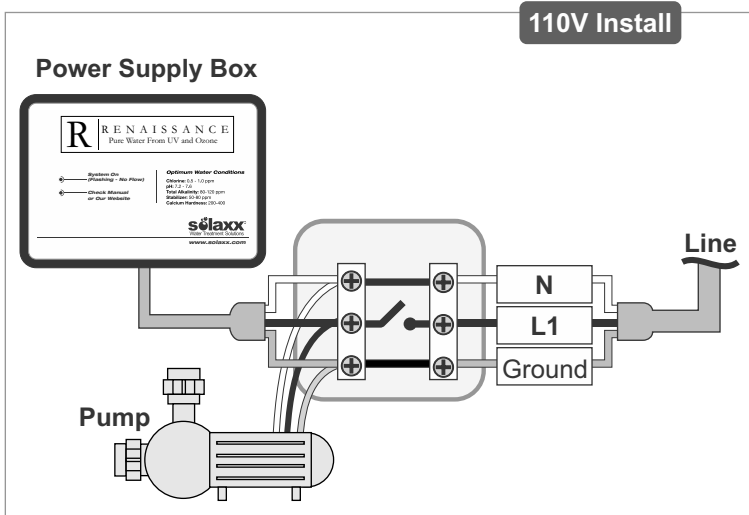
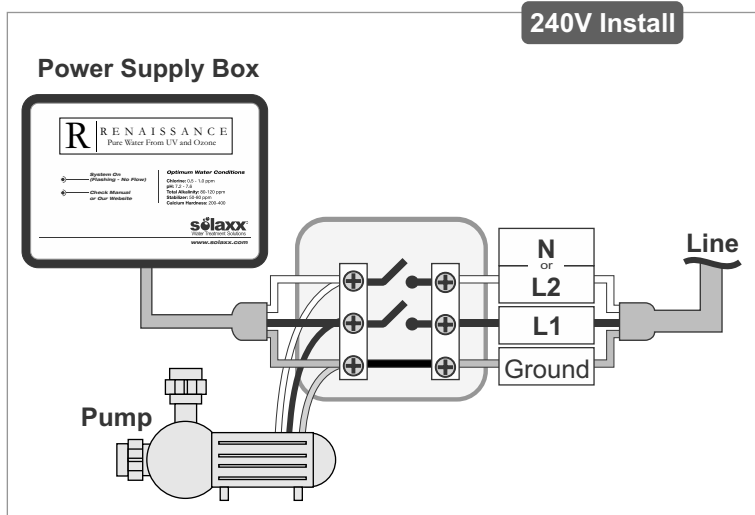
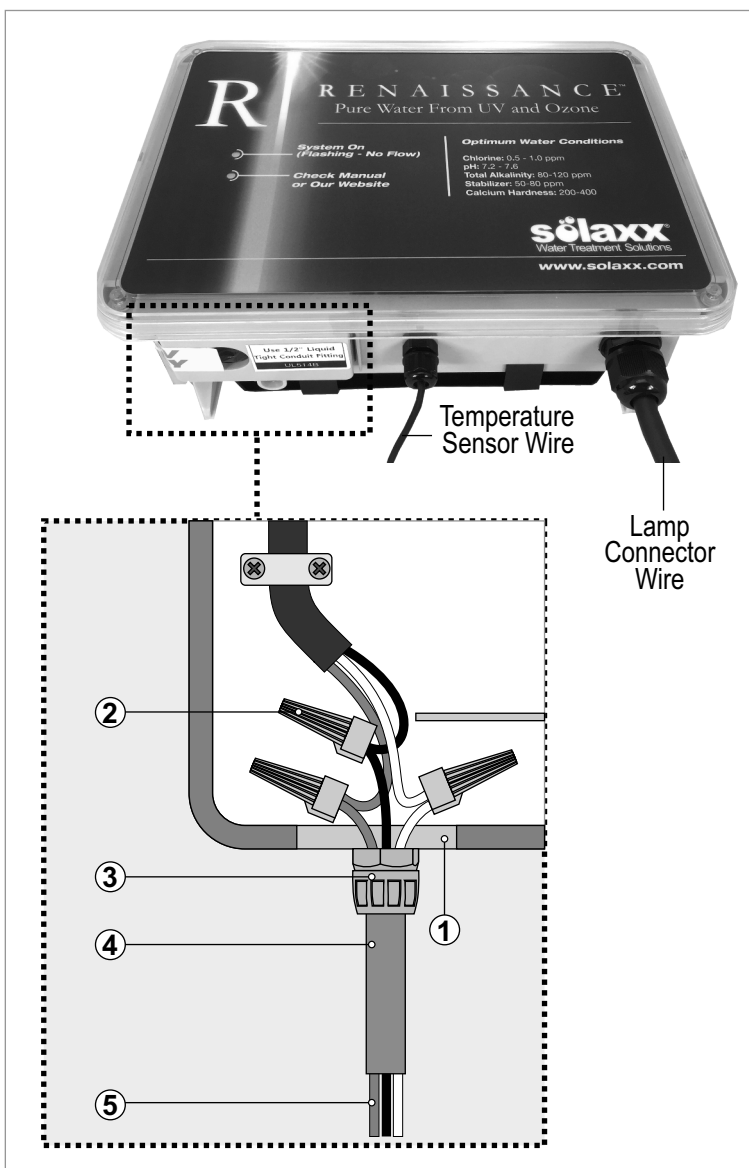
FOLLOW ALL APPLICABLE ELECTRICAL CODES.

Internal Wire Connections

1. Cover of the Junction Box
2. Wire Nut Connections
3. Liquid-Tight Conduit Fitting (1/2 inch) (UL514B)
4. Liquid-Tight Conduit (1/2 inch) (UL514B)
5. Wires

NOTE: 3,4 and 5 Not Supplied

Wires to be connected to either a circuit breaker, automation system or variable speed pump per diagram below:

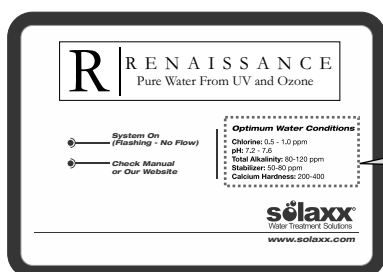


POOL WATER PREPARATION

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 SYSTEM. CHLORINE FROM CHEMICALS OR SALT SYSTEMS ARE NOT A PROBLEM AND THE SYSTEM MAY BE STARTED WHILE USING CHLORINE.

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



Optimum Water Conditions

Chlorine: 0.5 - 1.0 ppm

pH: 7.2 - 7.6

Total Alkalinity: 80-120 ppm

Stabilizer: 50-80 ppm

Calcium Hardness: 200-400

OPERATION



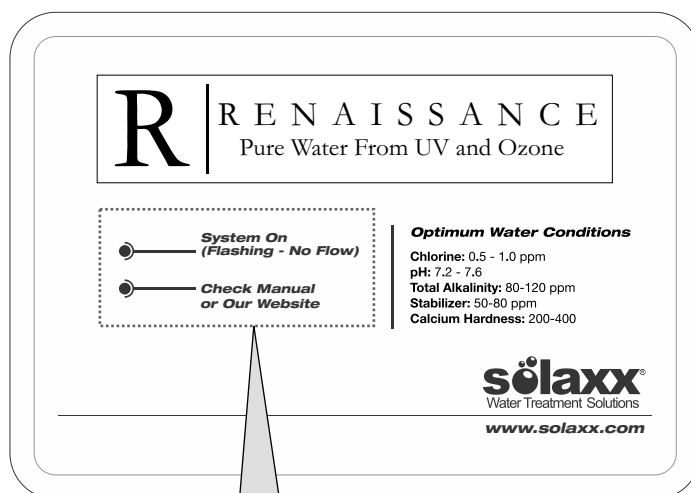
WARNING: DO NOT ATTEMPT TO OPEN THE POWER SUPPLY FOR ANY REASON. IT IS SEALED AND NOT DESIGNED TO BE REPAIRED IN THE FIELD. A DEFECTIVE OR NON FUNCTIONING POWER SUPPLY IS REPLACED WITH A NEW UNIT ONLY.

- Steady Blue LED = system has power and is operating normally

- Flashing Blue LED = 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.

Note: The flow is determined using a temperature sensor. Therefore, it may take a few minutes to recognize NO FLOW. This is not harmful to the Renaissance chamber.

- Steady Red LED = system error. This means an error has occurred in the power supply. Please go to www.solaxx.com to create an RMA form which will be answered within 24 hours or next business day to resolve this issue.



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Pure Water From UV and Ozone

● — **System On
(Flashing - No Flow)**

● — **Check Manual
or Our Website**

Optimum Water Conditions

Chlorine: 0.5 - 1.0 ppm
pH: 7.2 - 7.6
Total Alkalinity: 80-120 ppm
Stabilizer: 50-80 ppm
Calcium Hardness: 200-400

solaxx®
Water Treatment Solutions
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● — **System On
(Flashing - No Flow)**

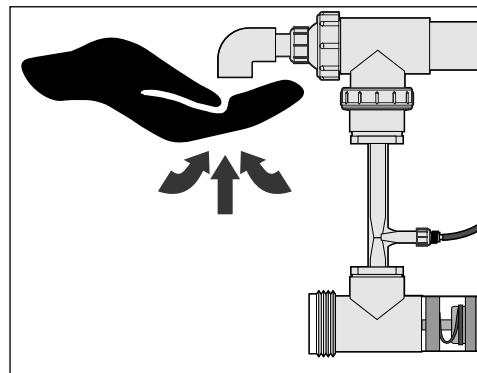
● — **Check Manual
or Our Website**

OPERATION IMPORTANT

Extremely high flow rates can prevent the Renaissance from operating correctly and possibly cause damage to the system. To ensure proper operation of the Renaissance, check for a **gentle suction** from the air vent elbow after installation and once the pump is turned on.

A gentle tug should be felt when a hand is covering the air vent elbow.

- If pool has a variable speed pump and multiple speeds are used, go to the speed setting most frequently used each day and adjust the ball valve until a gentle tug can be felt at the elbow as seen above.
- If pool has a single speed pump, adjust the ball valve until a gentle tug can be felt at the elbow as seen in the image.
- It is normal to see bubbles coming out of the pool returns.



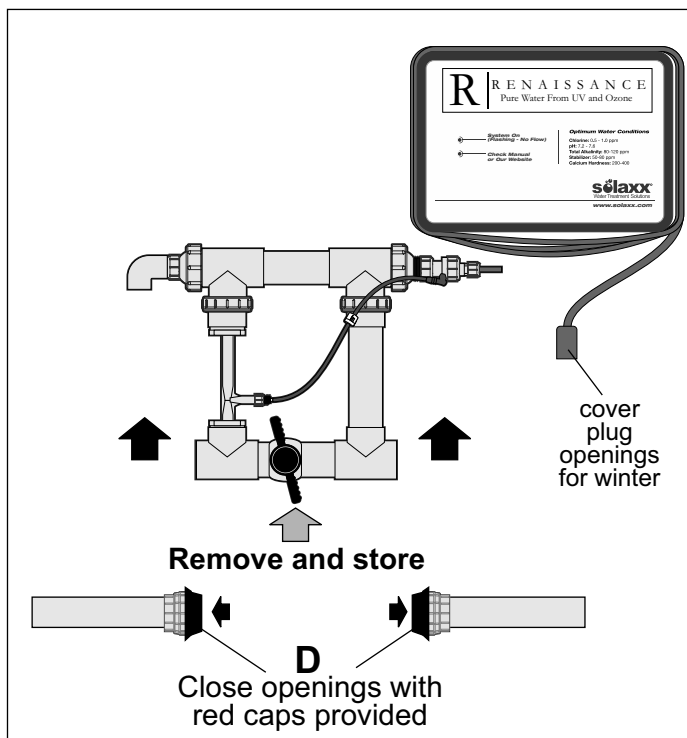
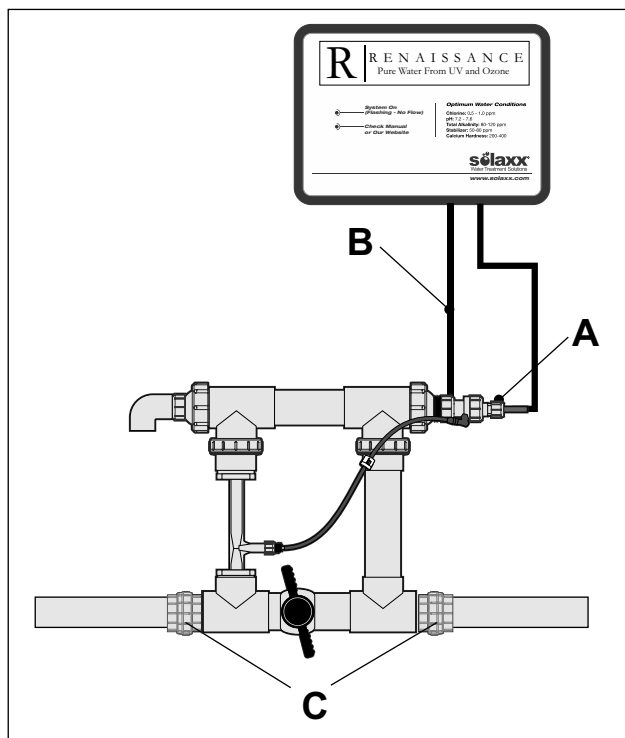
MAINTENANCE

WINTERIZING

In areas where the pool and the equipment is winterized (equipment drained and pool covered), Renaissance should be winterized also. This is done by removing the entire Renaissance manifold from the plumbing and storing in a warm, dry place.

First, blow out all pipes with air while the Renaissance is still installed on the pipe. Then:

- Unplug the bulb in reverse order of inserting it as shown on page 6.
- Coil the wire around the power supply which is mounted to the wall and leave in place for winter. Protect the 4 prong plug openings by wrapping with duct tape to protect against moisture over the winter.
- Unthread the union nuts and remove the entire black manifold from the pipe and store safely inside.
- Cover opening in pipes with red caps provided. Secure caps with a little duct tape.



CHANGE AIR FILTER

- The air filter should be changed annually to allow system to operate properly. It is located in the elbow at the end of the UV/Ozone chamber. Pull the old filter out by hand or tweezers and replace with a fresh air filter by pushing it into the opening so it appears as shown.

- Replacement Filter Media can be purchased at www.solaxx.com



MAINTENANCE

BULB REPLACEMENT

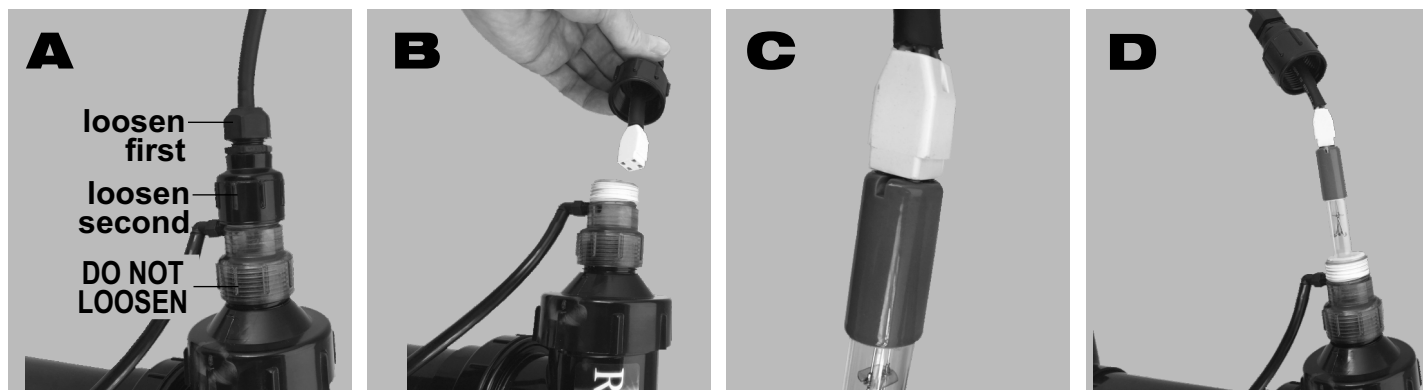
The UV bulb is rated for 13,000 hours of service and can be monitored through the blue viewing caps at either end of the chamber. **DO NOT VIEW BULB DIRECTLY - ALWAYS USE VIEWING CAPS.** When the bulb requires replacement, follow this simple procedure:

-  **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, by first loosening the small black plastic nut, then the larger black nut to remove bulb
B. Plug the 4 prong plug into the end of the UV bulb. If lamp is not fully plugged in, damage to the unit may occur.
C. Slide bulb straight into chamber - **Be careful, inserting the lamp at an angle, even a slight angle can crack the quartz sleeve.**
D. Rethread blue cap back onto chamber fitting very tight to assure tight seal.

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

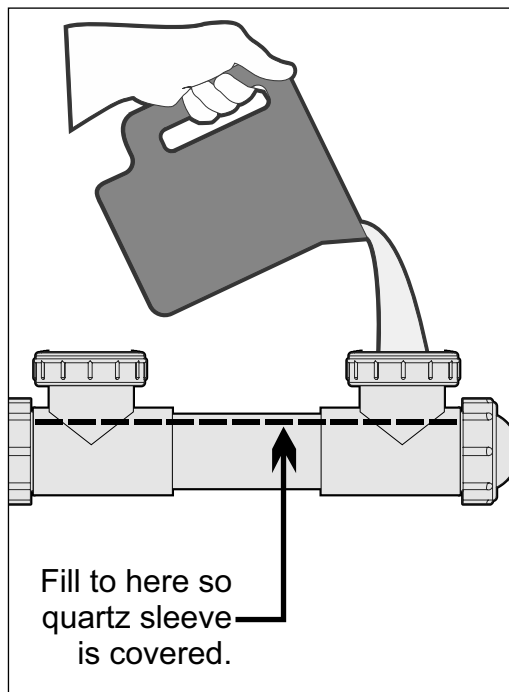
The quartz sleeve inside the UV chamber encases the UV bulb and should be cleaned while winterizing the system, or annually if system is installed on a pool running 12 months. The quartz sleeve is brittle and can be cracked, chipped or broken if it is not handled with care. Do not remove the sleeve or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

-After removing the manifold as shown in WINTERIZING section, unthread the top chamber and 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.



WARRANTY

1. Introduction

This limited warranty is applicable to certain UV/Ozone systems installed for pools up to 40,000 gallons. 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. Two 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 pools up to 40,000 gallons. The System is warranted to be free from defects in material and workmanship manufacturing process for a period of Two (2) years from the original purchase date. Should the System exhibit a manufacturing defect within two years of installation, 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. This warranty is applicable only if the System 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 failure 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 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 System is installed for use on non residential pools or pools bigger than 35,000 gallons, this warrant is void. The UV bulb and quartz sleeve are excluded from the System warranty and are warranted for a period of one year when properly installed and operated in accordance with the relevant manuals.

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). You may also make a warranty claim online by going to: www.solaxx.com to create an RMA. 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 and Canada. 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.**

Chamber and Manifold

2 yrs

Power Supply and Sensor

2 yrs

UV Lamp and Quartz Sleeve

1 yr.

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