R | RENAISSANCE™

Pure Water From Ultraviolet Light

1. Chamber Wall

2. Ultraviolet Lamp produces UV light for sterilization and Ozone for oxidation

3. Using the existing pool pump, **water flows through the chamber** and is sterilized by UV light from the lamp

4. A transparent **quartz sleeve** surrounds the lamp insulating it from water flowing through the chamber

O₃ O₃ O₃ O₃ O₃ O₃

5. Simultaneously, **Ozone (O3)** is captured inside the **quartz sleeve** and injected into water as it exits the chamber.
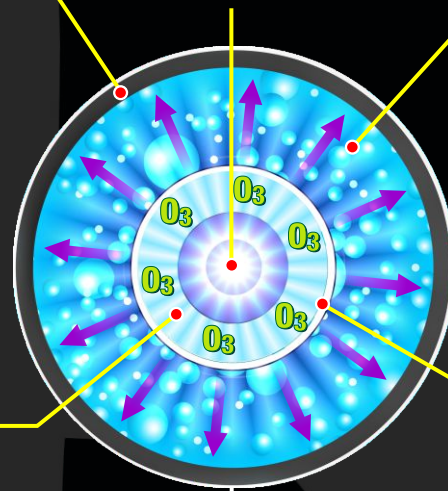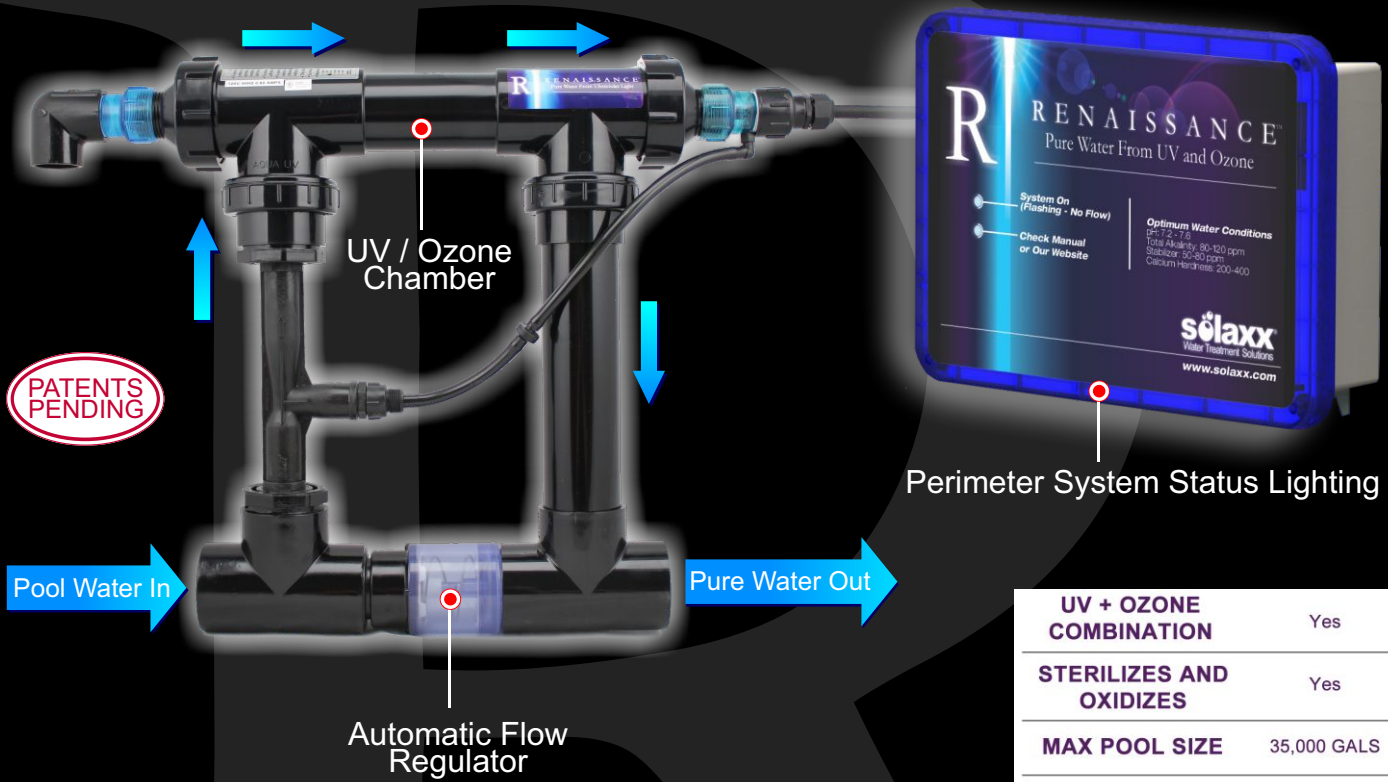
Sectional view

ULTRAVIOLET + OZONE IN ONE POWERFUL SYSTEM

Renaissance combines an Ultraviolet Sterilization Chamber with the power of pure oxygen (Ozone) to treat your water. These two naturally 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.

R E N A I S S A N C E ™
Pure Water From Ultraviolet Light

UV / Ozone Chamber

PATENTS PENDING

R E N A I S S A N C E ™
Pure Water From UV and Ozone

System On (Flashing - No Flow)

Check Manual or Our Website

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

sōlaxx
Water Treatment Solutions
www.solaxx.com

Perimeter System Status Lighting

Pool Water In

Pure Water Out

Automatic Flow Regulator

How it Works

● Using the existing pool pump, water is circulated through the Renaissance Chamber where it is sterilized to the quality of drinking water and then returned to the pool.

● Renaissance automatically regulates water flow through the chamber for maximum sterilization and minimum impact on other equipment.

● Uses no chemicals, minerals or metals, just pure light and pure oxygen.

UV + OZONE COMBINATION	Yes
STERILIZES AND OXIDIZES	Yes
MAX POOL SIZE	35,000 GALS
MAX OPERATING PRESSURE	50 PSI
MAX GPM	100 GPM
HEAD LOSS	< 5 feet @ 100gpm
BULB LIFE	13,000 Hours
BULB WATTAGE	57 Watts
UV PERFORMANCE	30 mj/cm2 Regulated Flow
OZONE OUTPUT	400 mg/hr
110 OR 220V AVAILABLE	Yes
DRY FIRE PROTECTION	Yes
WARRANTY	3 Years

Your Dealer is:
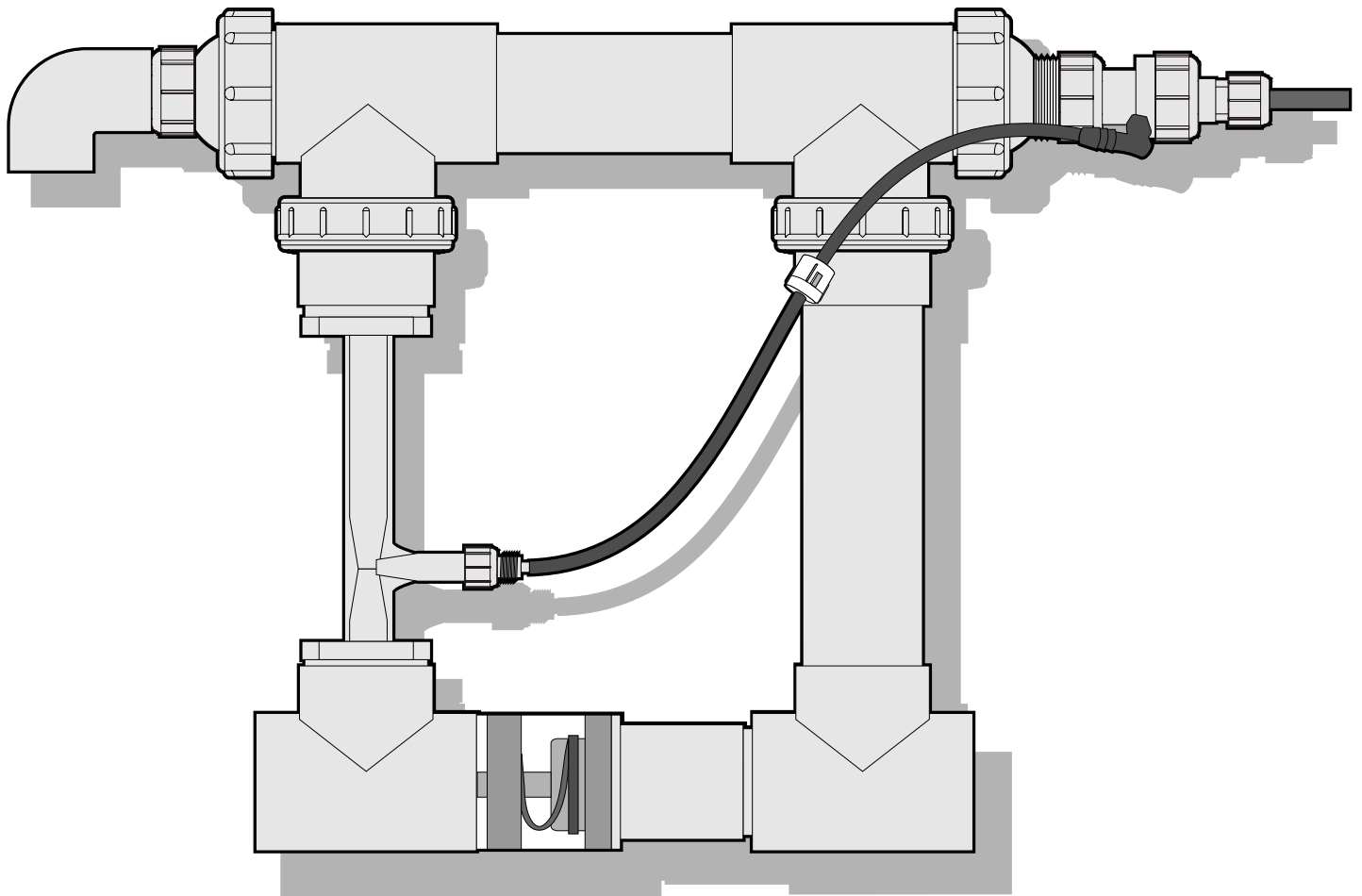
R | R E N A I S S A N C E
Pure Water From UV and Ozone

Installation and Operating Instructions

sölaxx®
Water Treatment Solutions

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 then 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.

⚠ **ENVIRONMENTAL NOTICE** - Hg-Lamp CONTAINS MERCURY. Manage in accordance with disposal laws. See: www.lamprecycle.org

⚠ SAVE THESE INSTRUCTIONS

Specifications:
Max Pool Size: Pools up to 35,000 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
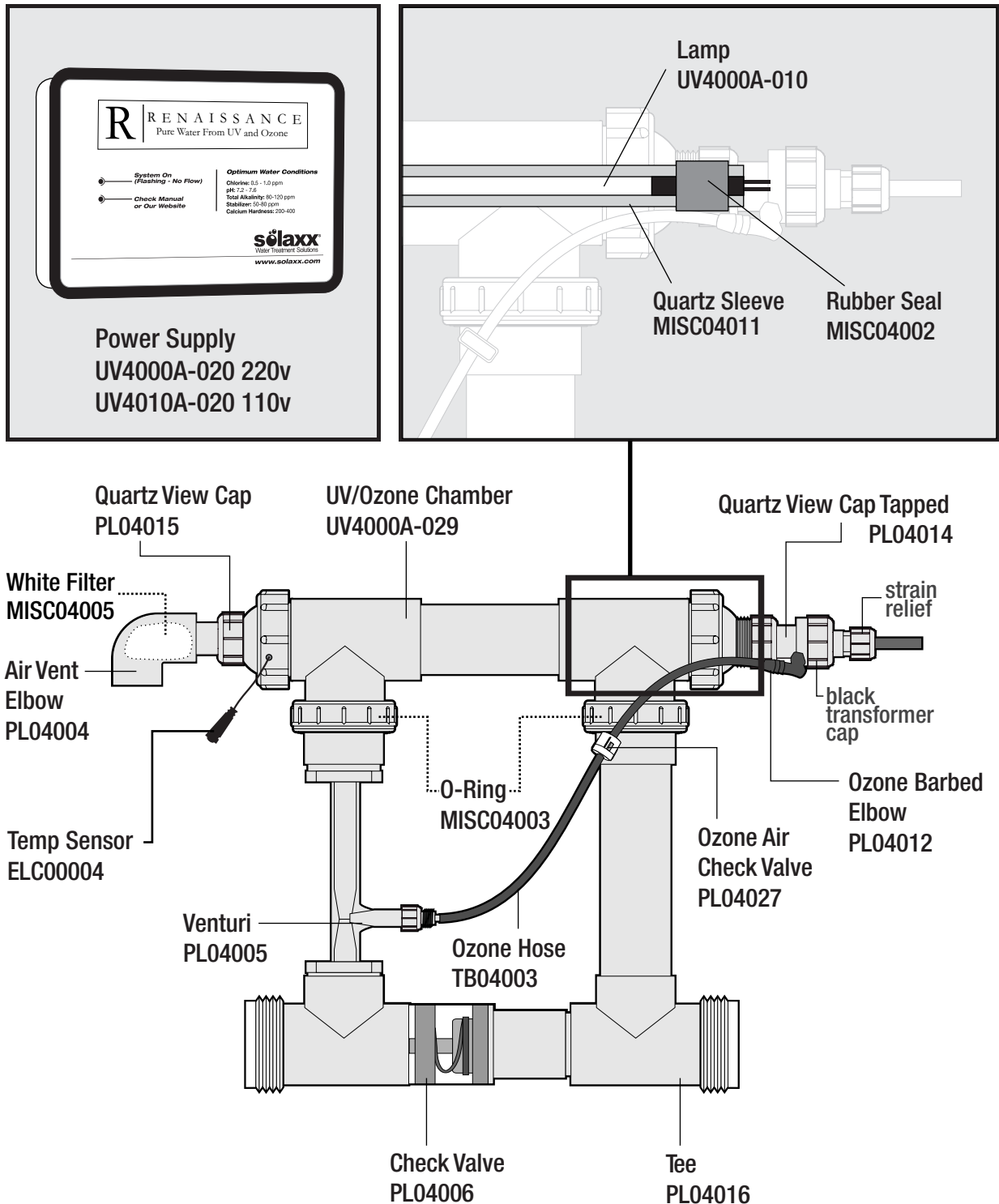**Power Consumption:** 60 Watt max.
Max Operating Pressure: 50 psi
Operating Flow Range: 15-120 GPM
Bulb: 57 Watt UV 13,000 hour life expectancy

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.

Power Supply
UV4000A-020 220v
UV4010A-020 110v

Lamp
UV4000A-010

Quartz Sleeve
MISC04011

Rubber Seal
MISC04002

Quartz View Cap
PL04015

UV/Ozone Chamber
UV4000A-029

Quartz View Cap Tapped
PL04014

White Filter
MISC04005

strain relief

Air Vent Elbow
PL04004

black transformer cap

O-Ring
MISC04003

Ozone Barbed Elbow
PL04012

Temp Sensor
ELC00004

Ozone Air Check Valve
PL04027

Venturi
PL04005

Ozone Hose
TB04003

Check Valve
PL04006

Tee
PL04016

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
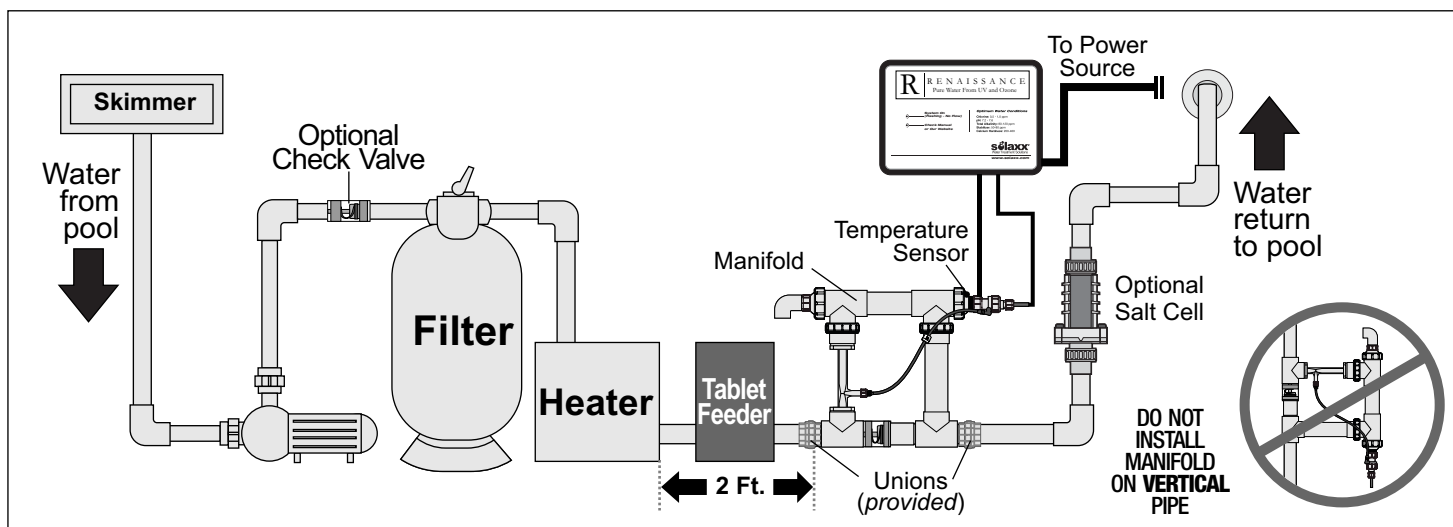
A) Install the Renaissance into a 16 ¾ inch opening with a union on both sides to facilitate easy removal should it become necessary. Unions are provided for easy servicing and removal.
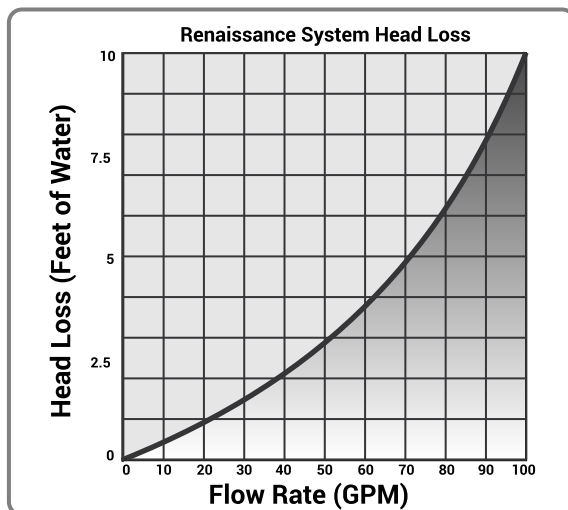
B) Clean the ends of the PVC pipe and glue the manifold into opening in the horizontal position shown above.

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 nominal when the manifold is inserted into the plumbing and is comparable to adding a heater to the pool. See below:
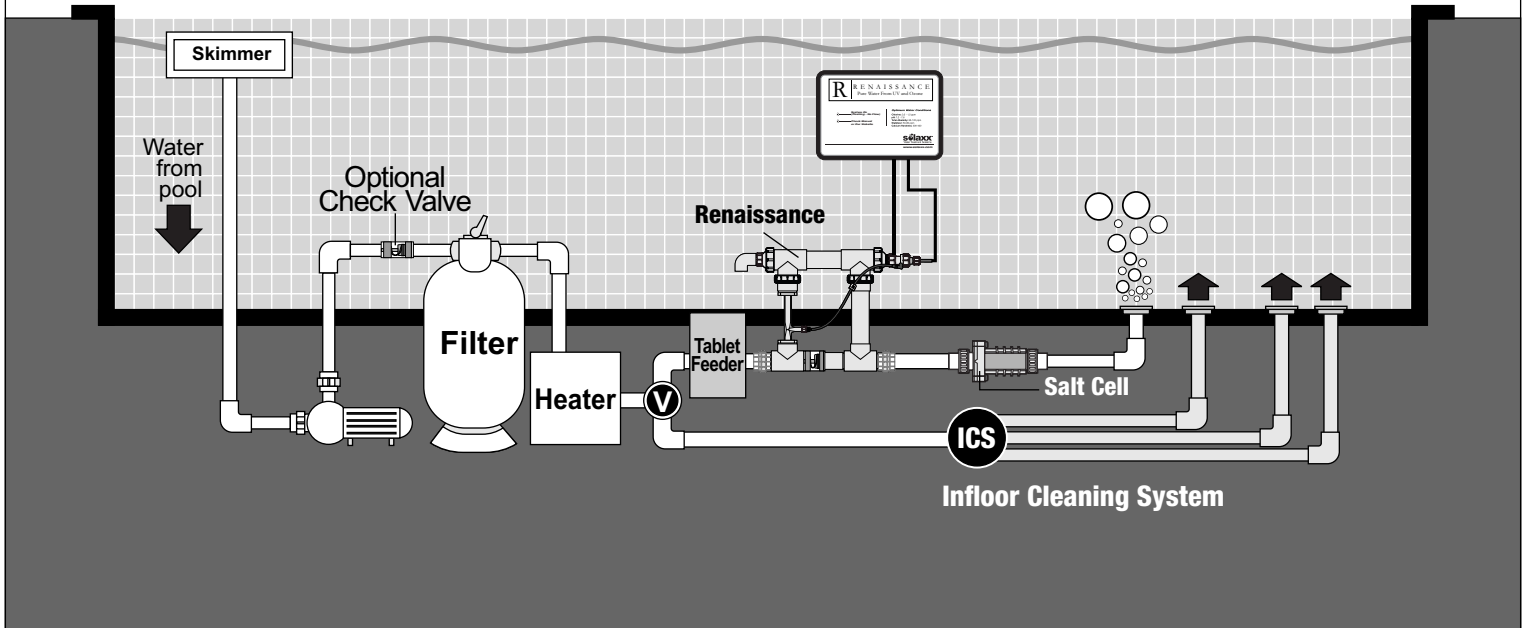
E) IMPORTANT: Install tablet feeder before (Upstream) of Renaissance manifold.

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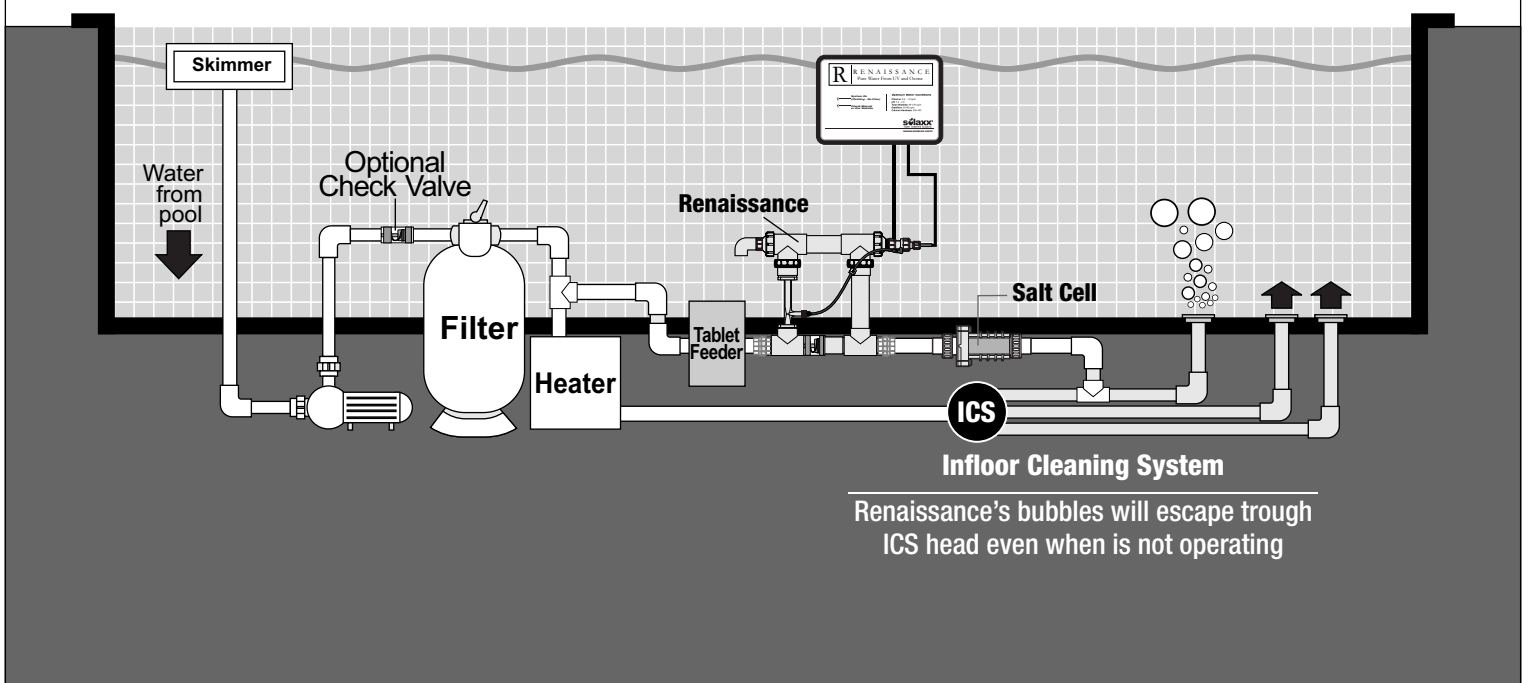

Renaissance System Head Loss

INSTALLATION

NEW POOL with Infloor Cleaning System

Skimmer

Water from pool

Optional Check Valve

Renaissance

Filter

Tablet Feeder

Heater

V

Salt Cell

ICS

Infloor Cleaning System

EXISTING POOL with Infloor Cleaning System

Skimmer

Water from pool

Optional Check Valve

Renaissance

Filter

Tablet Feeder

Heater

Salt Cell

ICS

Infloor Cleaning System

Renaissance's bubbles will escape trough
ICS head even when is not operating
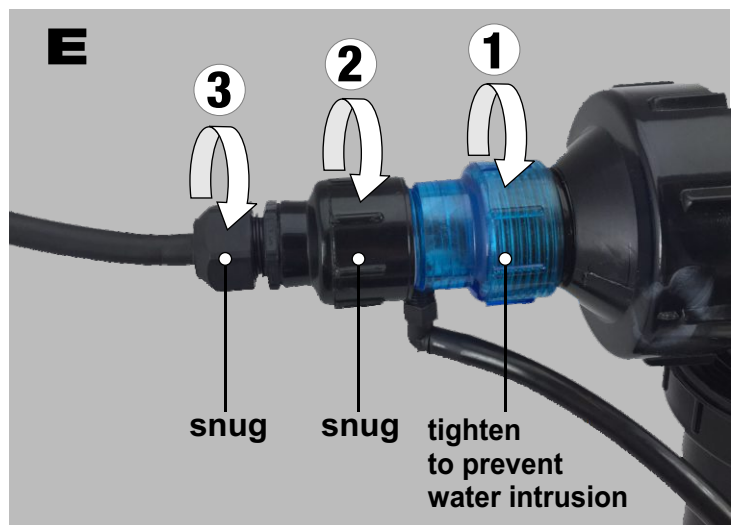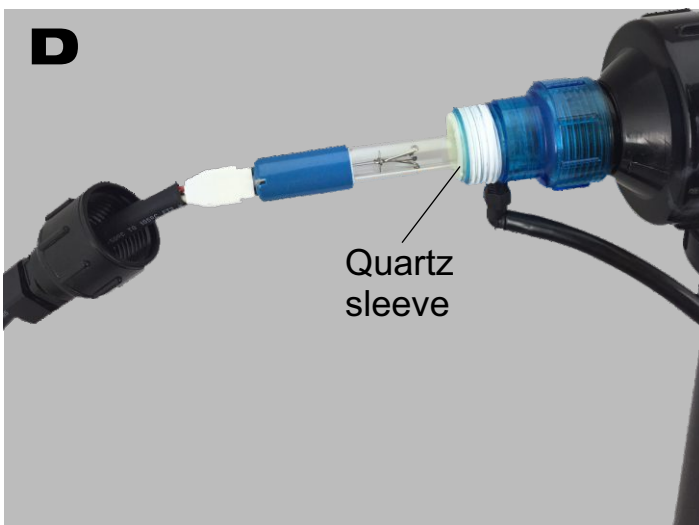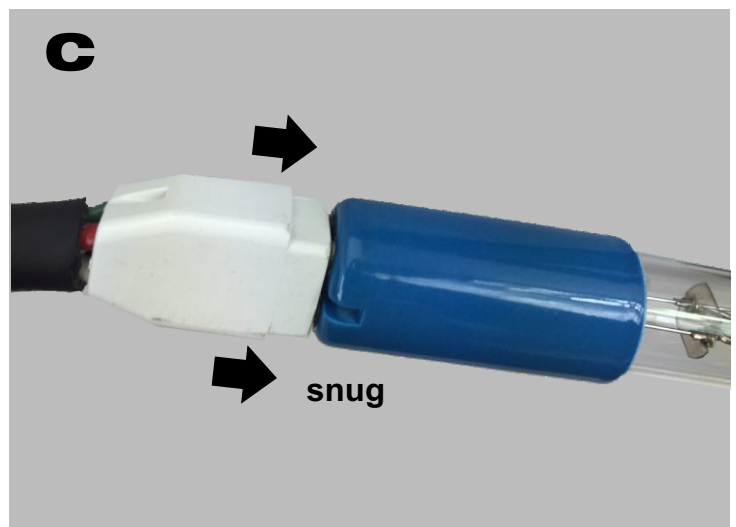
INSTALLATION

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 <u>**straight**</u> 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

A

loosen first

loosen second

DO NOT LOOSEN

B

C

snug

D

Quartz sleeve

E

③ ② ①

snug   snug   tighten to prevent water intrusion
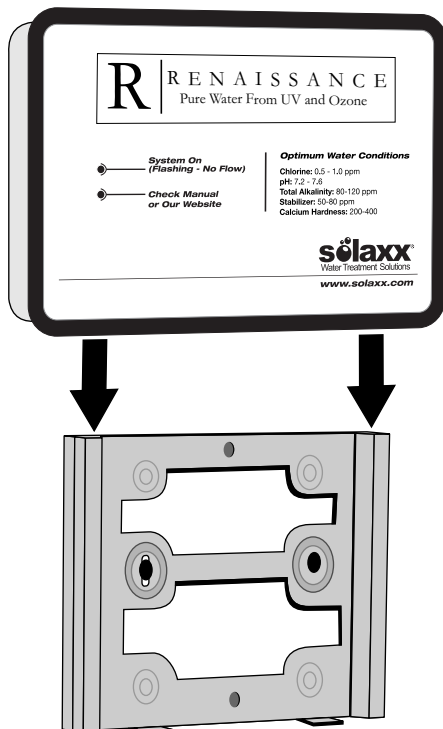
INSTALLATION

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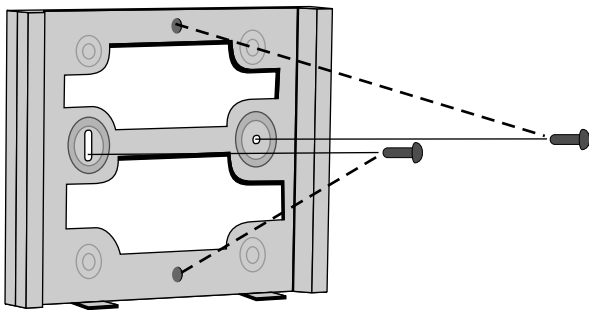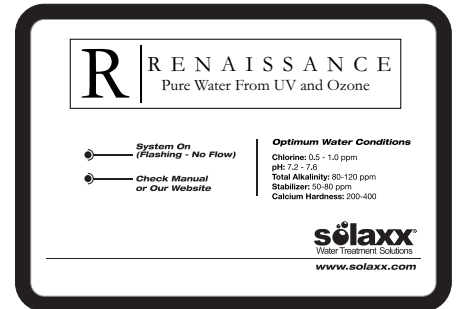
2. Mount the aluminum bracket first on a vertical surface at a height of approximately five (5) feet above the ground using the screws provided with the spacers against wall to allow air flow behind bracket. Level the bracket using the oval hole for a clean installation.
Dotted lines show alternate mounting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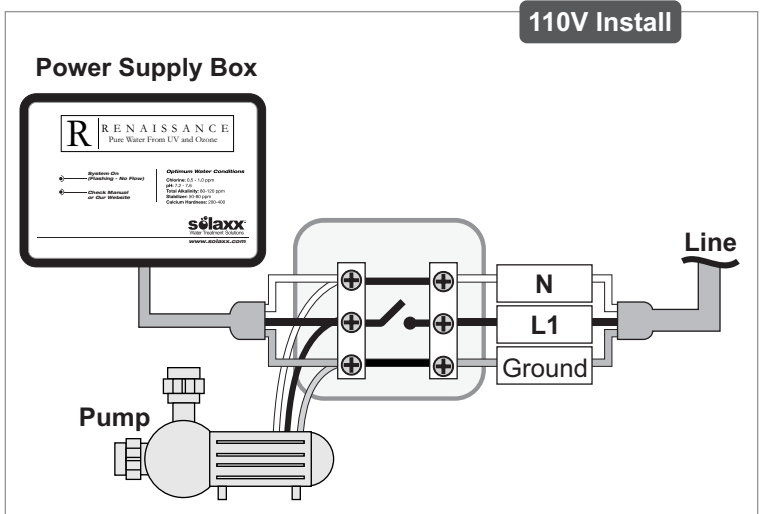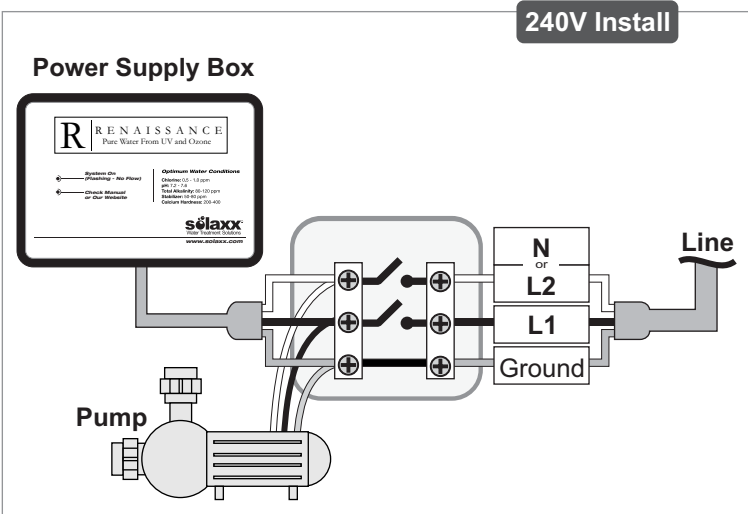
⚠ **USE COPPER CONDUCTORS ONLY**

⚠ **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

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

Temperature Sensor Wire

Lamp Connector Wire

240V Install

Power Supply Box

N or L2
L1
Ground
Line

Pump

110V Install

Power Supply Box

N
L1
Ground
Line

Pump
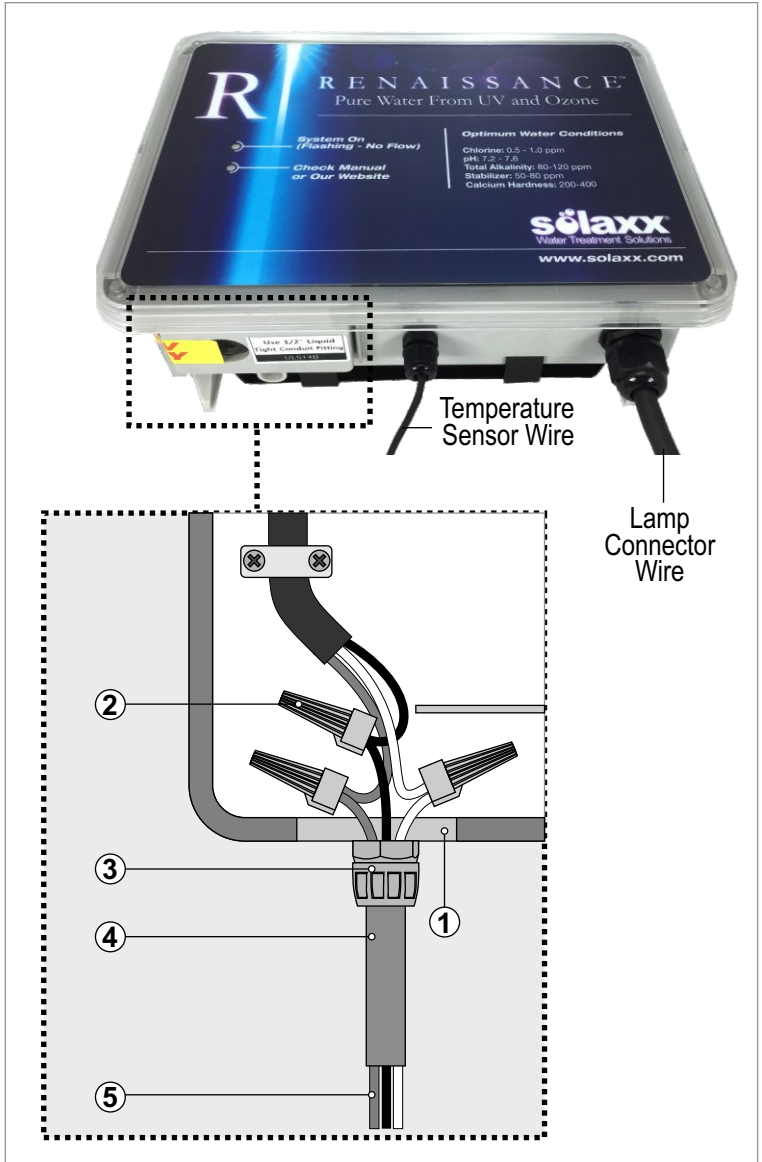
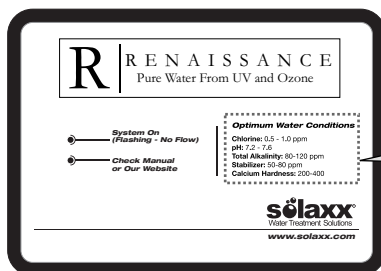# POOL WATER PREPARATION

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.

R | R E N A I S S A N C E
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

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Optimum Water Conditions

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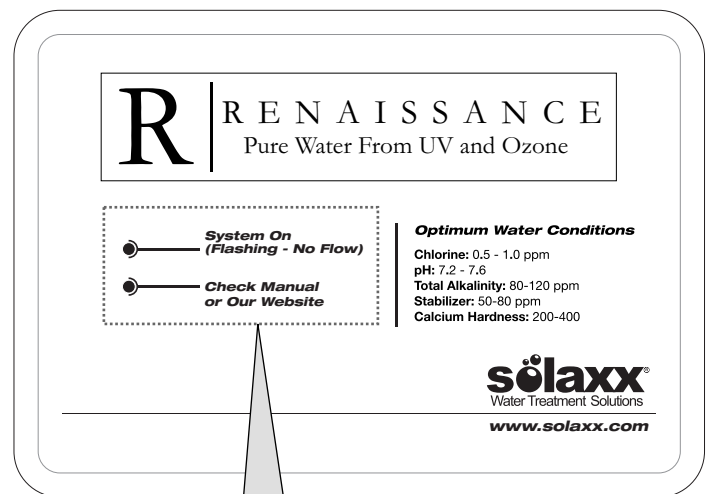**Calcium Hardness:** 200-400

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.

R | R E N A I S S A N C E
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

sólaxx
Water Treatment Solutions
www.solaxx.com

**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.
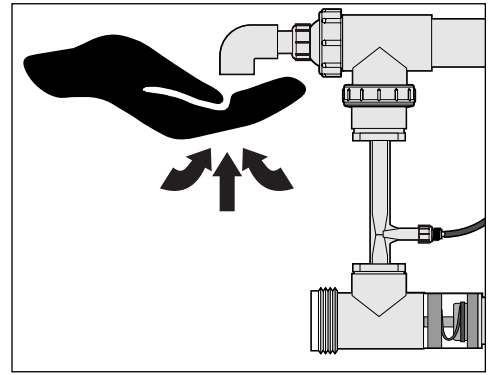
- On a **VARIABLE SPEED PUMP** if there is no suction, adjust the pump speed until suction can be felt.
- On a **SINGLE SPEED PUMP** if there is no suction, add a bypass with ball valve.
- It is normal for bubbles to enter the pool when Renaissance is running.

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:

A. Unplug the bulb in reverse order of inserting it as shown on page 6.
B. 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.
C. Unthread the union nuts and remove the entire black manifold from the pipe and store safely inside.
D. Cover opening in pipes with red caps provided. Secure caps with a little duct tape.

Remove and store

D
Close openings with
red caps provided

cover
plug
openings
for winter
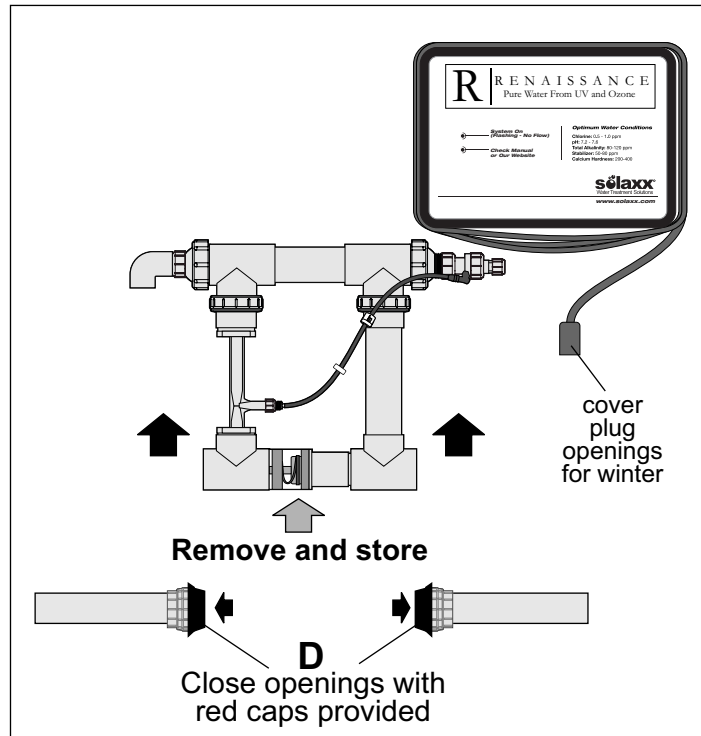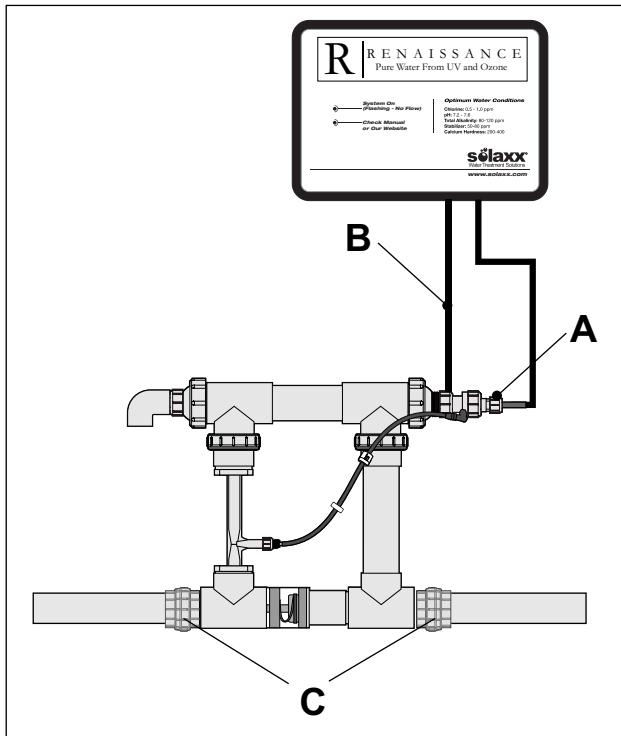
CHANGE AIR FILTER

A. 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.

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

Filter Media

A

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.

A
loosen first
loosen second
DO NOT LOOSEN

B

C

D

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.

Fill to here so quartz sleeve is covered.
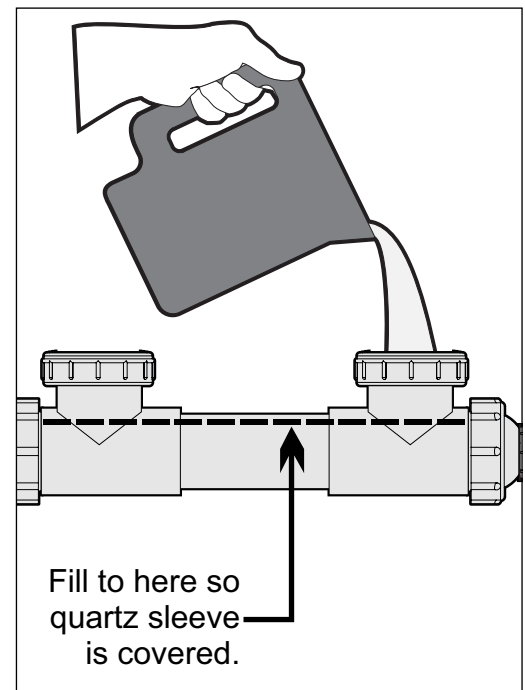
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Pure Water From UV and Ozone

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PENTAIR

SCREENLOGIC® INTERFACE
WIRELESS CONNECTION KIT
FOR INTELLITOUCH® AND EASYTOUCH® CONTROL SYSTEMS

INSTALLATION GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Technical Support

Contents

⚠️ **FCC Regulatory Safety Notice** - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate the equipment.

In this Installation Guide

Use the information in this manual for installing the ScreenLogic® Interface Wireless Connection kit contents.

- For ScreenLogic Interface system operating instructions, refer to the ScreenLogic Interface User's Guide (P/N 520493)
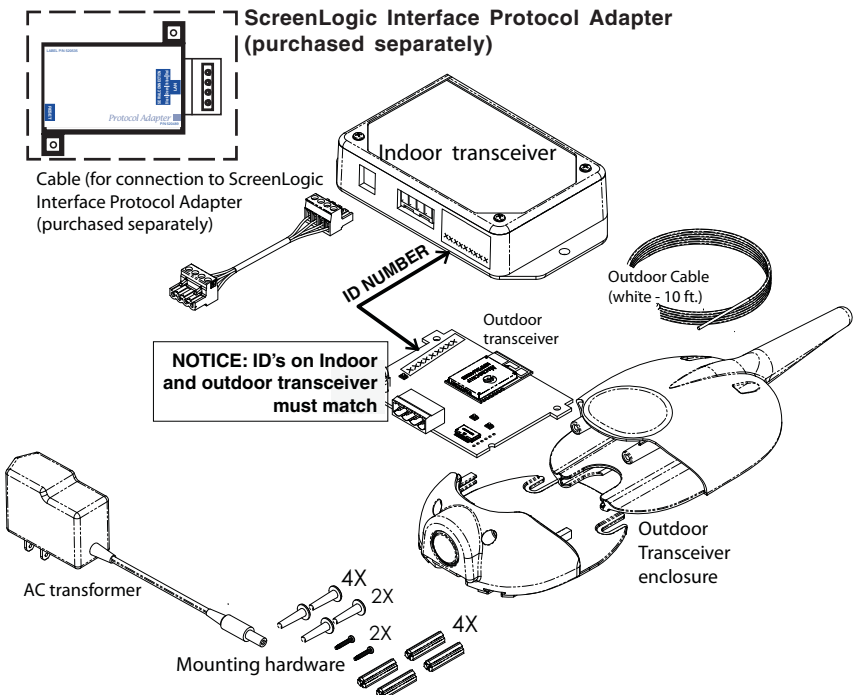
ScreenLogic® Interface Wireless Connection Kit

The ScreenLogic® Interface Wireless Connection interface consists of an indoor and outdoor wireless 2.4 GHz transceiver. *Note: The transceivers ship from the factory as a matched pair. The ID numbers on each transceiver must be the same number to function correctly. Transceivers are replaced as a matched pair. For more information, call Customer Support (880) 831.7133.*

The transceivers provides a wireless connection between the ScreenLogic Interface Protocol adapter and the IntelliTouch® or EasyTouch® Control System Load Center located at the equipment pad. This wireless connection eliminates the existing hard wire connection from inside your home to the equipment pad.

Wireless Connection Kit Contents

The following items are included in the Wireless Connection kit.

- One ScreenLogic Interface indoor wireless transceiver with AC power adapter and one foot connection cable with attached plugs.

- One ScreenLogic Interface outdoor wireless transceiver with 10 ft. cable, provided in kit with enclosure and mounting hardware.

- ScreenLogic Interface Wireless Connection Installation Guide (this manual)

ScreenLogic Interface Protocol Adapter (purchased separately)

Cable (for connection to ScreenLogic Interface Protocol Adapter (purchased separately)

Indoor transceiver

ID NUMBER

Outdoor Cable (white - 10 ft.)

Outdoor transceiver

NOTICE: ID's on Indoor and outdoor transceiver must match

AC transformer

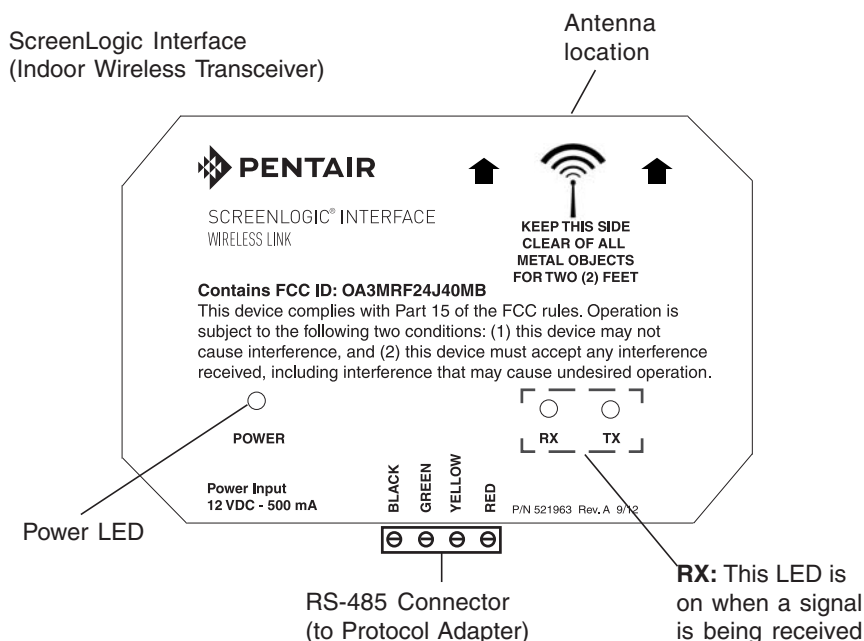Mounting hardware

4X 2X 2X 4X

Outdoor Transceiver enclosure

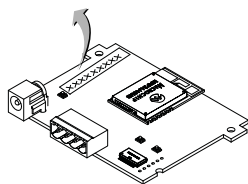ScreenLogic Interface Wireless Connection Kit Contents

Summary installation steps

The ScreenLogic® Interface connection diagram on page 2 shows the transceiver locations and connections. To install the ScreenLogic Interface Wireless Connection kit:
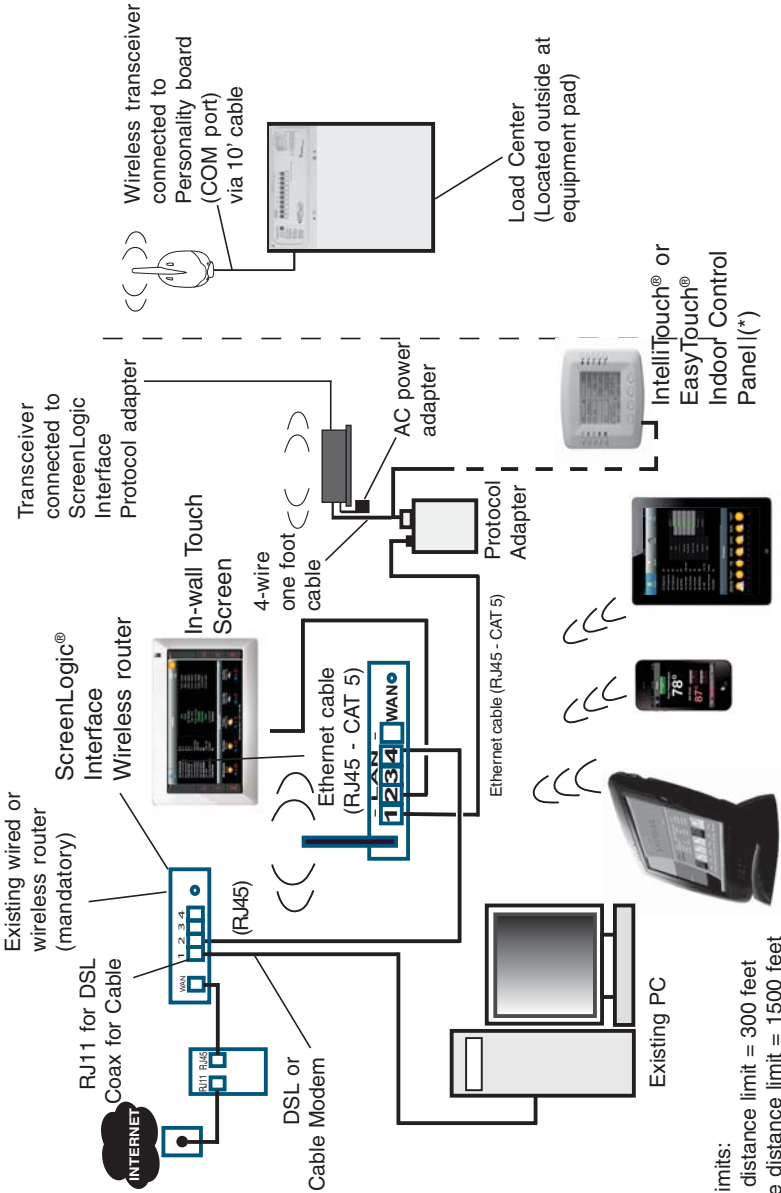
- Mount the outdoor transceiver antenna near the IntelliTouch® or EasyTouch® Control System Load Center and connect the transceiver to the COM port connector located in the IntelliTouch® or EasyTouch® Control System Load Center.

- Use the supplied 12 inch cable to connect the ScreenLogic Interface indoor wireless transceiver to the ScreenLogic Interface Protocol adapter. Plug the transceiver AC power adapter into an AC wall-outlet and into the transceiver unit to power up the unit.

ScreenLogic Interface
(Indoor Wireless Transceiver)

Antenna location

PENTAIR

SCREENLOGIC® INTERFACE
WIRELESS LINK

KEEP THIS SIDE
CLEAR OF ALL
METAL OBJECTS
FOR TWO (2) FEET

Contains FCC ID: OA3MRF24J40MB
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

POWER

RX   TX

Power Input
12 VDC - 500 mA

BLACK GREEN YELLOW RED

P/N 521963 Rev. A 9/12

Power LED

RS-485 Connector
(to Protocol Adapter)

RX: This LED is on when a signal is being received from the wireless transceiver in the outdoor clam shell.
TX: This LED is on when a signal is being transmitted to the wireless transceiver in the outdoor clam shell.

ID number (Outdoor transceiver)

IMPORTANT NOTICE: Be sure the yellow ID label (9-digit ID number XXXXXXXXX) located to the right of the RS-484 connector on front side of indoor transceiver enclosure and the ID number on the ScreenLogic Interface outdoor wireless transceiver are the same. See page 1 for label location.

Wireless transceiver connected to Personality board (COM port) via 10' cable

Load Center (Located outside at equipment pad)

Transceiver connected to ScreenLogic Interface Protocol adapter

AC power adapter

IntelliTouch® or EasyTouch® Indoor Control Panel (*)

In-wall Touch Screen

4-wire one foot cable

Protocol Adapter

ScreenLogic® Interface Wireless router

Existing wired or wireless router (mandatory)

Ethernet cable (RJ45 - CAT 5)

Ethernet cable (RJ45 - CAT 5)

LAN 1 2 3 4 WAN

(RJ45)

WAN 1 2 3 4

RJ11 for DSL Coax for Cable

RJ11 RJ45

INTERNET

DSL or Cable Modem

Existing PC

ScreenLogic® Interface Connection Diagram

Cable distance limits:
- Ethernet cable distance limit = 300 feet
- Four-wire cable distance limit = 1500 feet
Note: (*) Optional wiring for existing Indoor Control Panel. Tap into the Indoor Control Panel connector or pig tail off the four-wire cable connected to the Personality board.
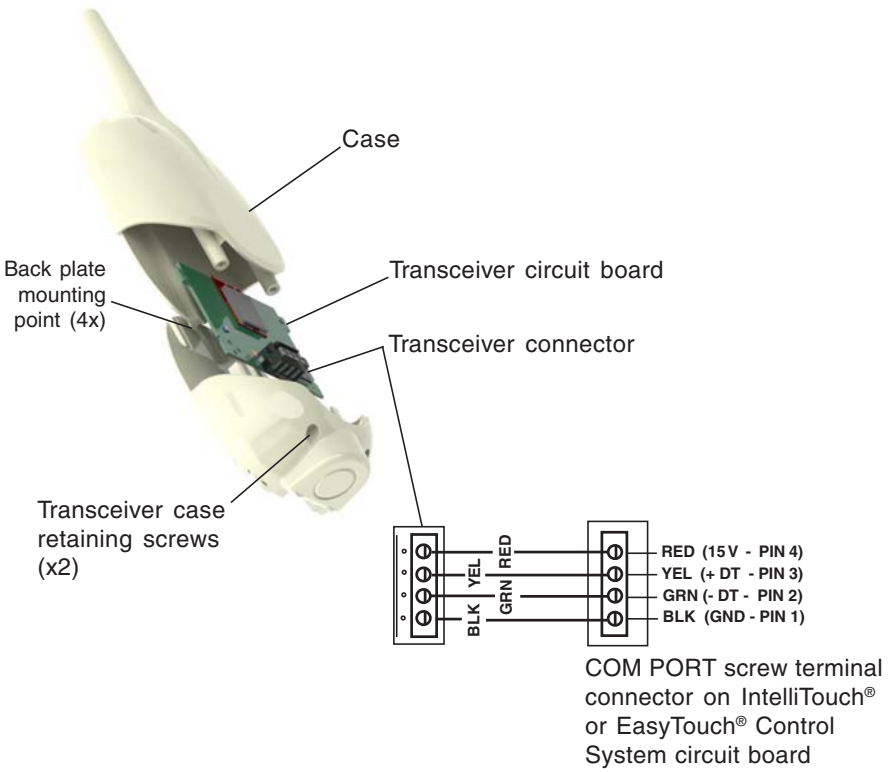
Step 1:
Mount the Outdoor Wireless Transceiver and Connect to the IntelliTouch® or EasyTouch® Control System Load Center

The following describes how to mount the transceiver to the IntelliTouch® or EasyTouch® Control System Load Center and connect the four-wire cable to the COM port connector located in the IntelliTouch or EasyTouch Control System Load Center:

Mount the Transceiver Module

The Transceiver is a two-way radio device with an attached antenna that communicates to and from the IntelliTouch or EasyTouch Control System. Mount the transceiver at a convenient location (on a flat vertical surface) near the load center at a minimum of 5 feet above ground level to optimize the transmit and receive operating range.

1. Remove the two retaining screws located on the underside of the transceiver case. Slide the case off the back plate.

2. Position the back plate against the mounting surface so that the transceiver is oriented in an upright position with the antenna pointing upwards. Use a pencil to mark the four mounting points. Drill four 3/16 in. diameter holes into the mounting surface and insert the four plastic anchors provided in the kit.
    Note: To avoid signal interference, mount the transceiver a minimum of 10 feet away from the load center, any metal surface/structure, or air blower located in the immediate area of the equipment pad.

3. Position the back plate over the mounting points and secure it with the four mounting screws provided in the kit.

4. Carefully position the transceiver circuit board into the mounted back plate. Route the connection wire down through the lower exit hole (left side) at the bottom of the back plate. Carefully pull the wire out the lower hole and position the circuit board in the back plate.

5. Position the transceiver circuit board to the left side of the back plate, and slide the case over the circuit board and antenna into the back plate. Secure the circuit board in the case using the two retaining screws.

6. Proceed to "**Connect the Transceiver connection cable to the COM Port on Control Systems Circuit Board**" on the next page.

Case

Transceiver circuit board

Back plate mounting point (4x)

Transceiver connector

Transceiver case retaining screws (x2)

RED

YEL

BLK

GRN RED

RED (15 V - PIN 4)
YEL (+ DT - PIN 3)
GRN (- DT - PIN 2)
BLK (GND - PIN 1)

COM PORT screw terminal connector on IntelliTouch® or EasyTouch® Control System circuit board

Transceiver Module Wiring

Connect the Transceiver connection cable to the COM Port on Control System Circuit Board

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⚠️ **WARNING** Switch OFF the main system power to the Load Center before making any connections.

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1. Unlatch the enclosure door spring latche(s), and open the door.

2. Remove the two retaining screws securing the high voltage cover-panel, and remove it from the enclosure.

3. Loosen the two access screws securing the control panel.

Access screw

Access screw

Control panel

Panel retaining screw (Cover-panel not shown)

Retaining screw
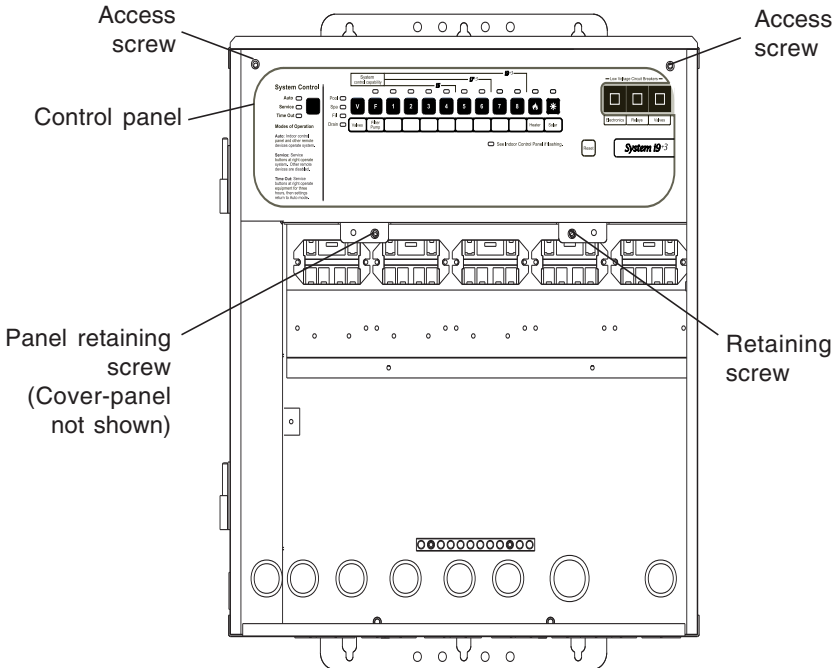
IntelliTouch® or EasyTouch® Load Center

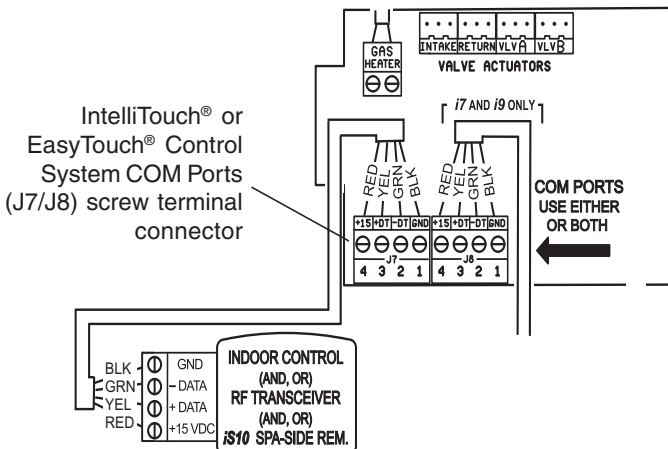4. Lower down the hinged control panel to access the circuit board.

5. Route the four conductor transceiver connection cable into the lower plastic grommet, up through the low voltage raceway to the circuit board.
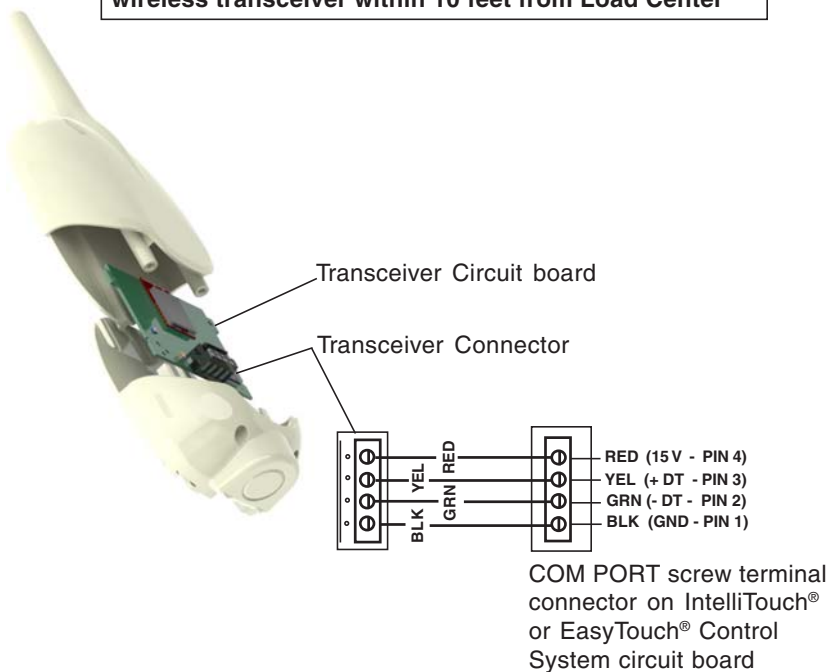
Circuit board

Control panel

Raceway
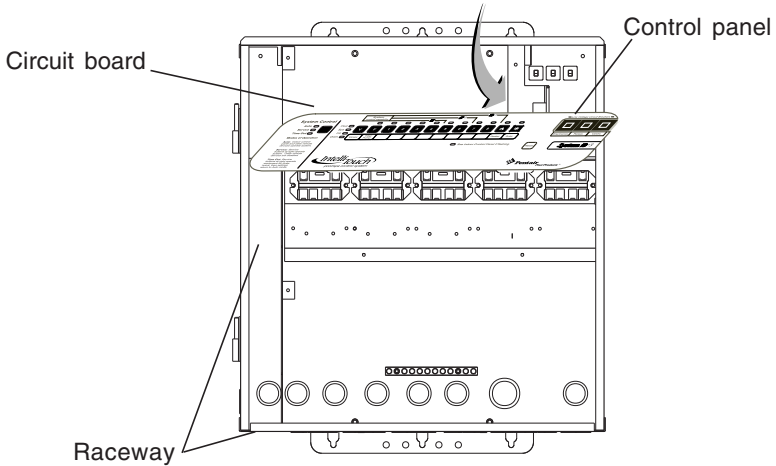
6. Insert the four wires into the screw terminals of the COM PORT plug located on the circuit board as shown on page 6. Using a small flat-blade screwdriver, secure the wires with the screws. Make sure to match the color coding of the four wires:

Pin 4 - Red = +15
Pin 3 - Yellow = +DT
Pin 2 - Green = -DT
Pin 1 - Black = GND

Note: Multiple wires may be inserted into a single screw terminal but increases the chances of a poor or intermittent connection.

GAS HEATER

INTAKE RETURN VLVA VLVB
VALVE ACTUATORS

i7 AND *i9* ONLY

IntelliTouch® or EasyTouch® Control System COM Ports (J7/J8) screw terminal connector

RED YEL GRN BLK
RED YEL GRN BLK
+15 +DT -DT GND +15 +DT -DT GND
J7   J8
4 3 2 1   4 3 2 1

COM PORTS
USE EITHER
OR BOTH

BLK — GND
GRN — DATA
YEL — + DATA
RED — +15 VDC

INDOOR CONTROL
(AND, OR)
RF TRANSCEIVER
(AND, OR)
iS10 SPA-SIDE REM.

Note: Install the ScreenLogic® Interface outdoor wireless transceiver within 10 feet from Load Center

Transceiver Circuit board

Transceiver Connector

RED (15 V - PIN 4)
YEL (+ DT - PIN 3)
GRN (- DT - PIN 2)
BLK (GND - PIN 1)

COM PORT screw terminal connector on IntelliTouch® or EasyTouch® Control System circuit board

7. After the connection has been completed, close the control panel into its original position and secure it with the two access screws.

8. Install the front panel and secure it with the two retaining screws.

9. Close the Load Center front door. Fasten the spring latch(es).

10. Switch the power on to the IntelliTouch® or EasyTouch® Control System Load Center.

11. Proceed to the "**Connect the ScreenLogic Interface Indoor Wireless Transceiver to the ScreenLogic Interface Protocol Adapter**" on page 8.

Step 2:
Connect the ScreenLogic® Interface Indoor Wireless Transceiver to the ScreenLogic Interface Protocol Adapter

To connect the ScreenLogic Interface indoor wireless transceiver to the ScreenLogic Interface Protocol adapter:

1. Using the provided connection cable, connect one end of the cable to the ScreenLogic Interface Protocol adapter and the other end to the ScreenLogic Interface indoor wireless transceiver. The cable plugs are keyed for easy connection.

2. Plug the ScreenLogic Interface Wireless Connection transceiver AC adapter wall-plug into an AC grounded electrical outlet.

1 ft. connection cable
(provide in kit)

LABEL P/N 520535

SERIAL CONNECTION
Black | Green | Yellow | Red
LAN

RESET

Protocol Adapter ▪
P/N 520489

ScreenLogic Interface
Protocol Adapter

ScreenLogic Interface Indoor
Wireless Transceiver
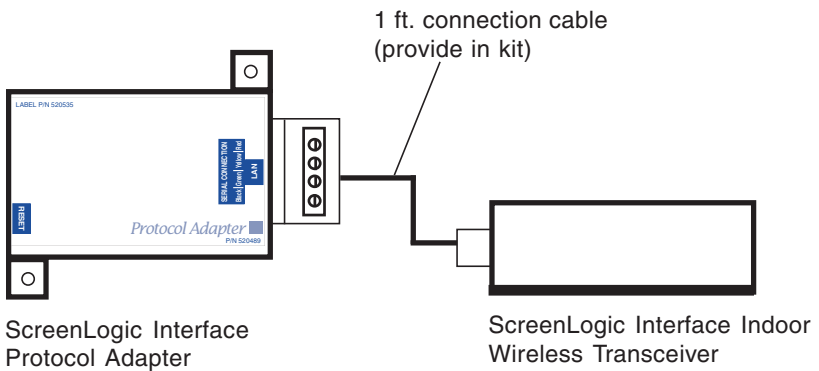
Transceiver	<---------->	Indoor Wireless Transceiver
RED	<---------->	RED
YELLOW	<---------->	YELLOW
GREEN	<---------->	GREEN
BLACK	<---------->	BLACK

Wiring Configuration

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P/N 521965   REV. C   1/14