

Royal Spa Float Tank

For Royal Spa Float Pod, Float
Room & Float Room XL



Owner's Manual





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Markings

Electrical Box



Electrical Markings



Blue Data Plate

Royal Spa Float Label Per 28:3:1

ROYAL SPA CORPORATION · 2041 WEST EPLER AVENUE · INDIANAPOLIS, IN 46217

MODEL:

"MODEL NAME"

SERIAL NUMBER:

"SERIAL NUMBER"

MFG DATE:

"MONTH"

"YEAR"

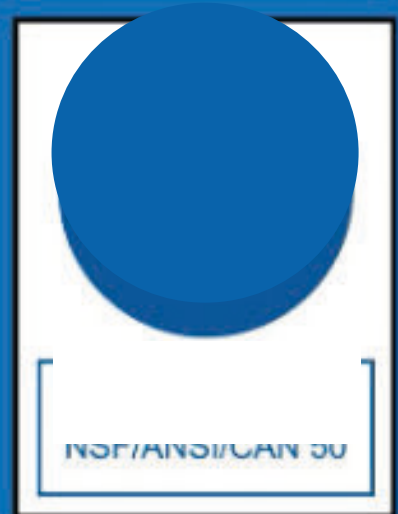
FILLED WEIGHT:

"LBS"

FILLED WITH USER NOT TO EXCEED 6000 LBS

DRY WEIGHT:

"LBS"



TEMPERATURE NOT TO EXCEED 101 DEGREES FAHRENHEIT

UNIT WILL BE PLACED WITH AT LEAST 18" OF SPACE ON ALL SIDES

RECOMMEND NOT TO EXCEED ONE USER PER SESSION

CLEANING CYCLE WILL RUN FOR AT LEAST 30 MINUTES BETWEEN USER

DO NOT USE TANK WHILE CLEANING CYCLE IS RUNNING

TEST WATER TWICE A DAY = H²O² IS 50-100

ELECTRICAL INFO: SEE MAIN EQUIPMENT BOX FOR ELECTRICAL SPECIFICATION AND MARKINGS.

Red Data Plate

Royal Spa Safety Float Label Per 28:3:2

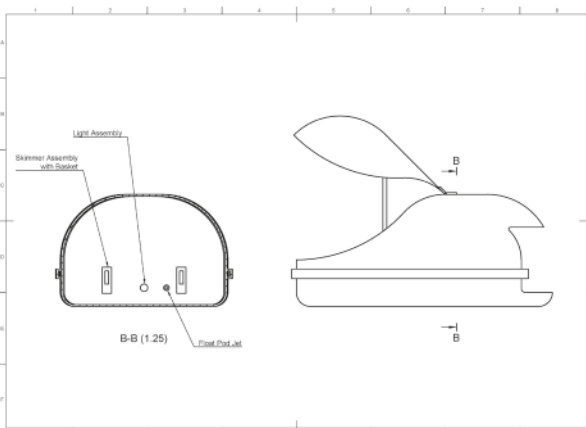
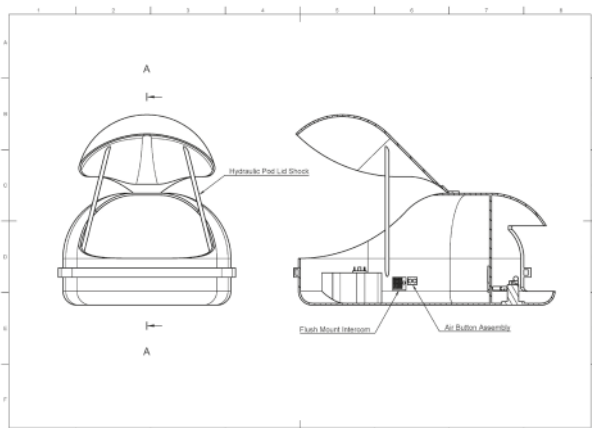
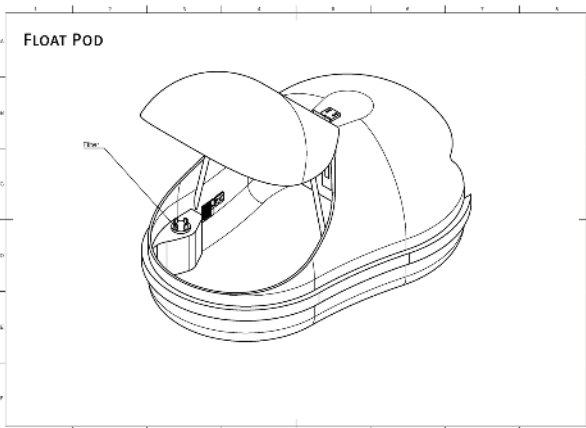
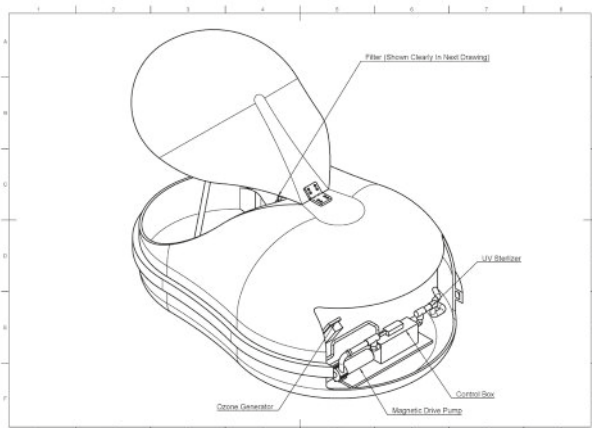
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SAFETY WARNING

- Do not use tank while tank is circulating the water or in a “cleaning cycle”.
- If you have high blood pressure, heart disease or any other health concerns, please consult your physician before using this device.
- If you are pregnant, please consult your physician before using this device.
- Consult the Operation Manual for this device for other health related concerns.
- Surfaces are wet and may be slippery, please exercise caution while in or around this device.
- Take care to avoid any risk of drowning.
- Electrical Warnings and Labels are located on this device’s main equipment system.
- See the Operation Manual for any additional warnings.

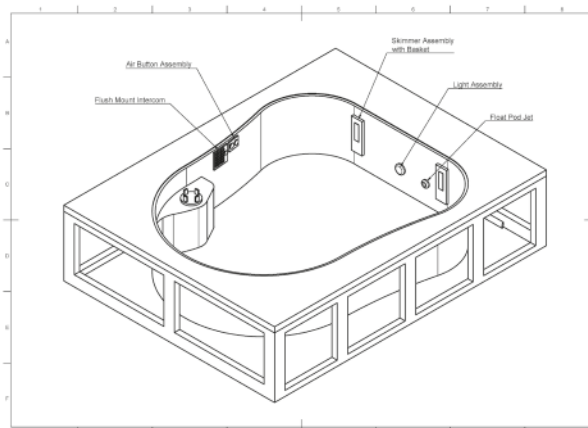
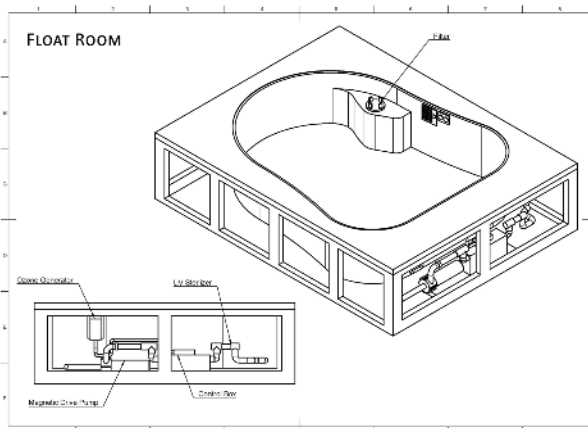
Equipment Drawing

Float Pod

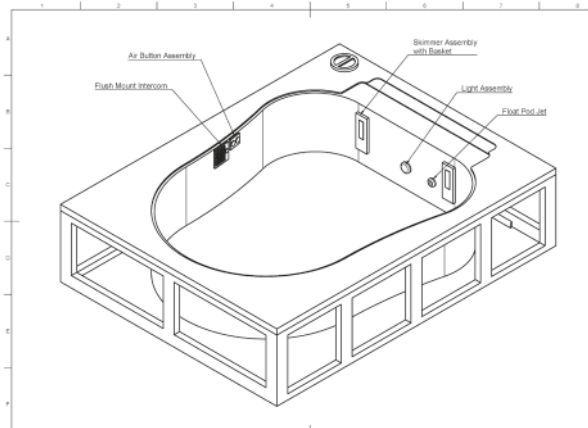
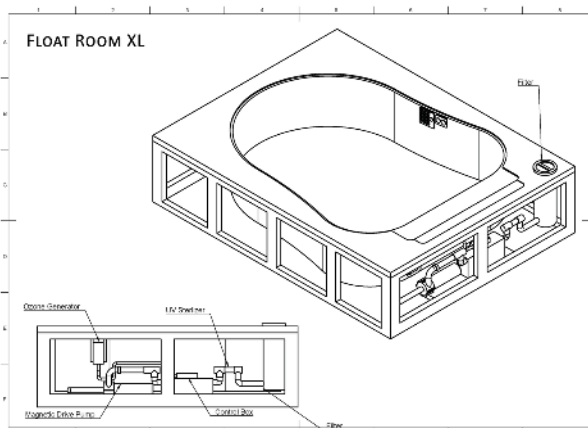


Equipment Drawing

Float Room

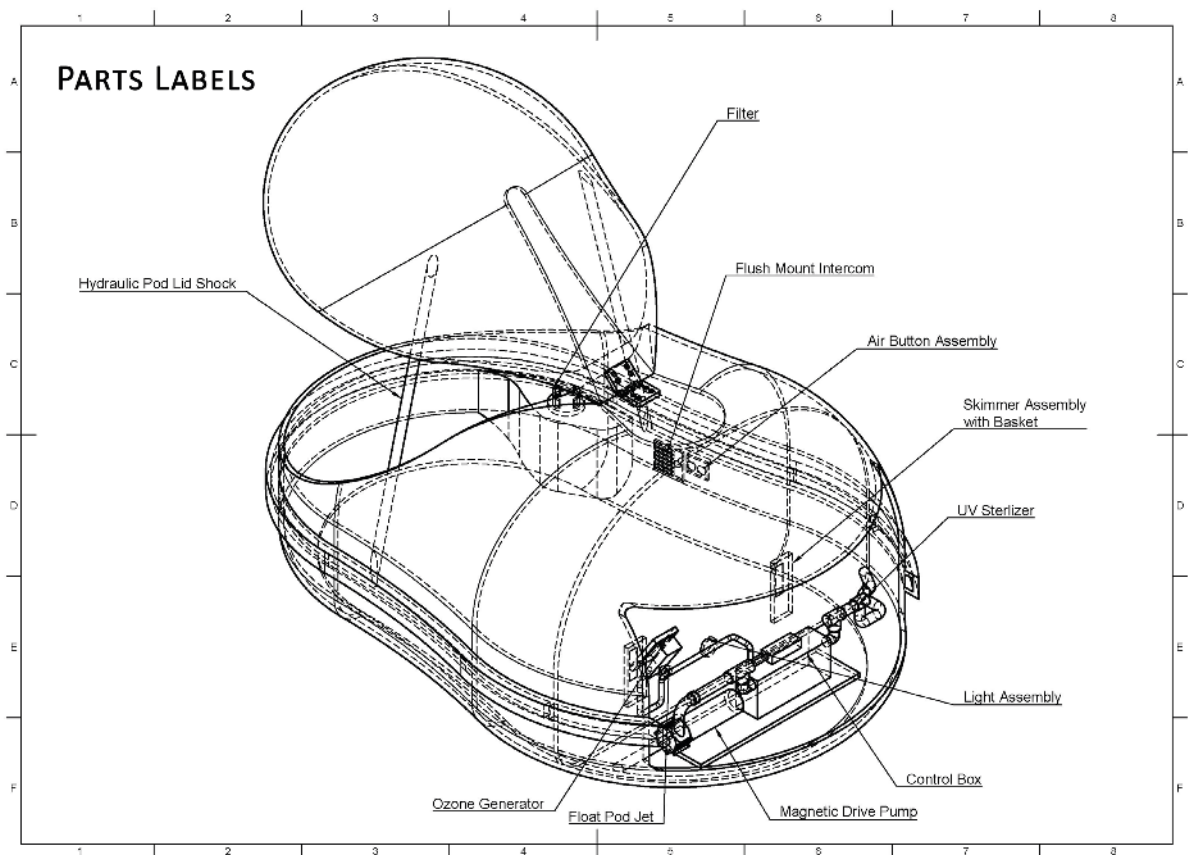


Float Room XL



Parts Diagram

Part Labels



Site Requirements

Ventilation Requirements

Ventilation within the enclosed system shall be tested to meet or exceed a rate of five volumetric air changes per hour. All systems regardless of disinfection method, shall be tested for carbon dioxide to ensure it does not exceed 1,500 ppm. Per the Ashre Industry Standard, having a room fan that has no less than minimum 80 cfm or as required by local authority having jurisdiction.

Site Preparation

For indoor use only. Flooring able to support at least 60 lbs/sq foot to support weight of tank, solution and occupant

Required Clearance

Minimum 30" clearance for humans to access the front of the tank as well as 30" minimum access for equipment for service. Requires 72" of vertical clearance to open the pod lid.

Leveling of System

Float tank should be placed on generally level area.

Electrical Requirements

1. 240v
2. 16A
3. 3-wire with ground
4. GFCI

Delivery

The tank arrives wrapped and crated and weighs at least 1200 lbs. It requires a forklift to be removed from the truck. A LIFT GATE IS NOT ADEQUATE for the size and weight of the shipped float tank. The Float Pod can be separated into top and bottom sections and moved through a standard 36" doorway. Remove stainless steel struts and bolts attaching upper and lower sections to separate.

The Float Room is a single unit and does not require separation.

Installation

Before receiving your float pod(s), there will be a few things you will need to have INSTALLED to make for an easier installation process. *(Please make sure pod room is easily accessible and properly ventilated.)*

01. Supply Power:

- 20-amp 220 volt GFCI circuit 3-wire with ground
- Hubble L14-30 receptacle (Or equivalent)

02. Intercom:

- (shielded non-twisted 22 AWG 2-wire) per pod. This will be run from each pod to the main intercom master unit. (Keep the master unit close to the reception desk)

03. Wall Timer:

- single gang wall mounted electrical box will need to be installed at desired location.
- #12 three wire with ground cable will need to be run from the wall mounted electrical box to the rear of the pod access door according to National Electric Standards.

Note: The task above must be completed before Pod arrival.

Receiving the Pod

Please follow the steps below to ensure smooth installation process.

Step 1: Remove the wooden crate surrounding the pod. Be careful not to damage the pod while doing so.

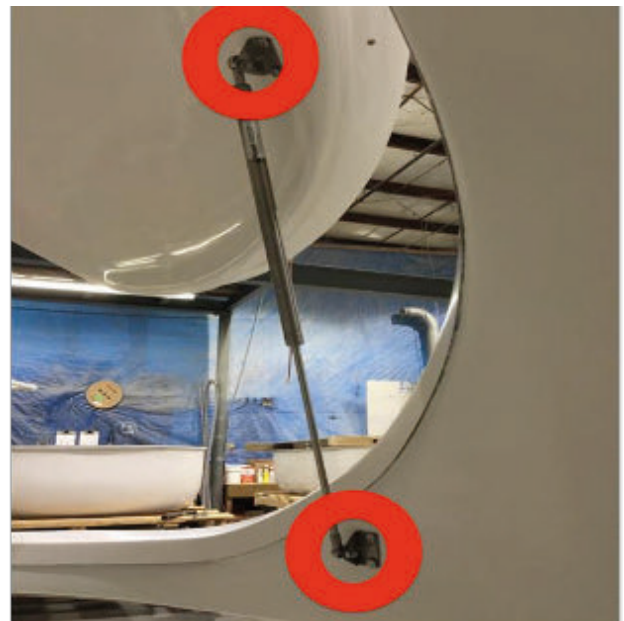
Step 2: Remove the shrink-wrap that is covering the pod. Again, be sure not to use any sharp objects during removal in order not to damage the pod.

(IF THE POD DOES NOT NEED TO BE ROTATED ON ITS SIDE TO ENTER YOUR FACILITY, PLEASE DISREGARD STEPS 3-7)

Step 3: Removing Shocks From Door

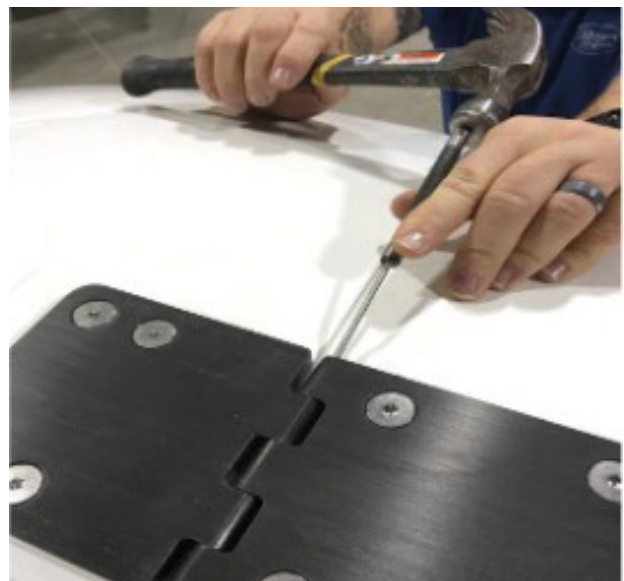
In order to remove the shocks, you will need a ½ in wrench. Carefully remove (2) nuts from each shock.

(IMPORTANT: Mark and indicate which shocks belong to which side.) For safety purposes, always have someone supporting the weight of the door. Once the shocks are removed, the person supporting the door can carefully set it down.



Step 4: Removing The Pod Door

Now that the shocks are off the door, gently pull the pin out of the hinge located at the top of the pod. This can be done using a small flat head screw driver and a hammer. Once the pin is removed, carefully remove the lid and set the door on a padded surface to avoid damage. (This may take two or more people)



Step 5: Lifting Top Section

To separate the top from the bottom, lift the entire top section of the pod (comes off easily). Move into a safe place and set down gently.



Step 6: Moving Pod

Here are several pointers to make a moving process easier

- The pieces are all heavy and awkward to lift. Using several people can help better this process
- Move the base piece first and position it where you want it in the room.
- **(NOTE: THE FLOAT POD MUST BE PLACED ON A UNIFORMLY FIRM AND LEVEL SURFACE.)**
- Place a bead of 100 % silicone caulk on the inner top edge of the bottom section. Make sure to caulk completely around the pod. See pictures below.
- Next, bring in the top piece of the pod and place it on top of the bottom part. Make sure to line up the (3) bolt holes.



Lay bead on the edge closest to the water



Step 7: Putting Pod Back Together

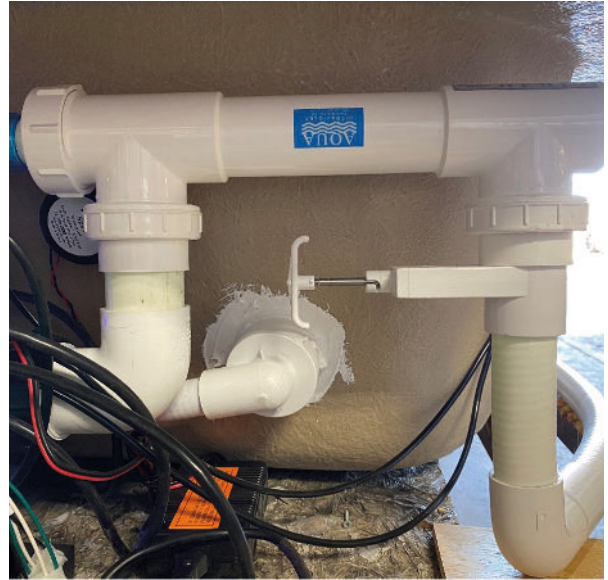
Once the top piece is set on and aligned, bring in the pod door and set on the pod basin, aligning the hinge. Carefully put the pin back into the hinge. After the door is attached to the hinge, open the lid and reattached the shocks to the correct side of the door. Again, each shock should be fastened with (2) nuts. After the shocks are installed, the door will be self-supported. After everything is fastened together, carefully smooth out the caulk between the bottom and top half. (We recommend using your finger and spray water bottle to help create a smooth joint.)

Installing UV

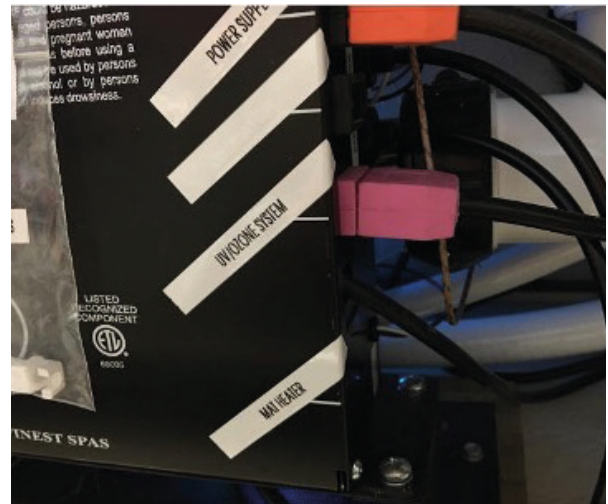
1. The first thing you will need to do is remove that back panel of the pod. (It is held on by (2) Phillips screws).
2. Next, you will next to remove and unpack the black foam box that is seen in the picture below.
3. After the UV device is removed from the package, make sure you place (1) o- ring on each connection (shown below). Place the o-ring on with the ribbed side facing the connection.



4. Once the o-rings are in place, you can now install the UV device into the pod. (Make sure to remove the any tape that is covering existing fitting in the pod). To install the device, you will need to make (2) connection. Your system should look like the picture below.



5. After you have connected the UV device and made sure the fittings are snug, you will need to connect the "pink colored" plug into the Royal Spa control box labeled UV/OZ SYSTEM.

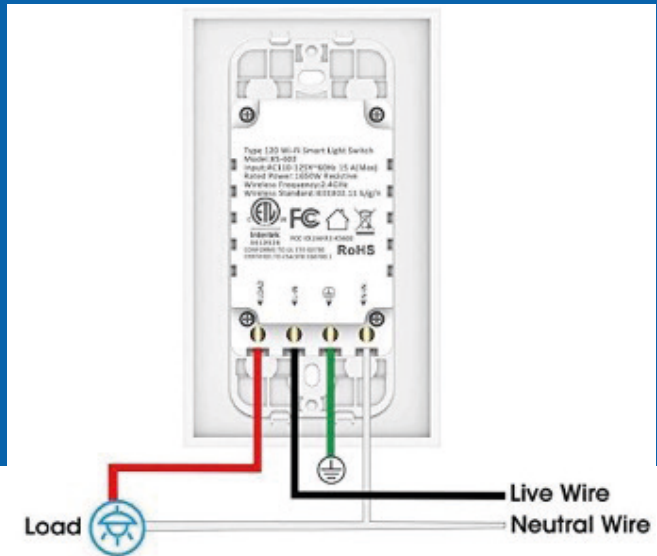


6. Last, you will need to connect the small tube to the side of the UV device as shown below.



Wall Timer

You should have already run a #12 three wire with ground cable from the electrical box to the float pod. If this has yet to be done, please refer to the section (What To Do Before Receiving The Pod).



01

Attach one end of the cable to the wall timer (there should be 3 wires that will be connected to the back of the timer). Be sure to match the colors of each wire as follows.

- A. Black to Line 1 of timer
- B. White to Neutral of timer
- C. Red to Blue of timer



02

Attach the other end of the cable to the electrical box at the rear of the pod beside the Royal Spa control box. (See below)



Intercom

You should have already run a shielded non-twisted 22 AWG 2-wire cable per pod. If this has yet to be done, please refer to the section (What To Do Before Receiving The Pod).

01

There should be

1. Cable containing
2. Wires coming from each pod. Run to where you'd like to install the Master Intercom Station. We recommend running the wires through the wall and mounting the Master Intercom Station directly onto the wall.
3. Screw down the two wires coming from the Float Pod to the Intercom unit. (Black and Red wires)
4. Red = Goes to Number 1, or whatever number pod you are wiring (1-5)-Each Pod will connect to a different number. 1, 2, 3, etc.
5. Black = Goes to "E". All Black wires from all pods will connect to "E"
6. The intercom unit is powered using an additional 22AWG wire running from the Master Intercom Station to the Transformer.
 - a) Please connect positive + on transformer to positive + on Master Unit
 - b) Please connect negative-on transformer to negative on Master Unit
7. Do not remove the 'short link' running between "E" and "+/-"
8. Screw the faceplate back onto the Intercom Unit.
9. Use twist-on wire connectors to connect the two wires to the corresponding intercom wires at the back of the Float Pod. (Red to red, black to black.)

Operating The Intercom

1. To place a call from the Float Pod: Press the call button once, then release and wait for a response from the master station. The call tone and LED indicator at the master will remain activated until the call is answered.
2. To answer the call at the master station: Press the channel selector button with the lit LED, which indicates which Float Pod has called in. Press and hold TALK button to talk-release to listen.
3. The floater speaks hands free in the Float Pod.
4. To conclude the call, press the OFF button. Only the master station can end the call.
5. To initiate a call from the master station to the Float Pod, simply press the channel selector button, then push and hold TALK to speak to the person in the Pod.
6. Press OFF to conclude the call.

Adding Water & Salt

- 01** Once the pod is in the desired location, you can now start filling the pod with water. For the first 10 minutes of filling, place the hose into the skimmer hole as shown in the picture below.



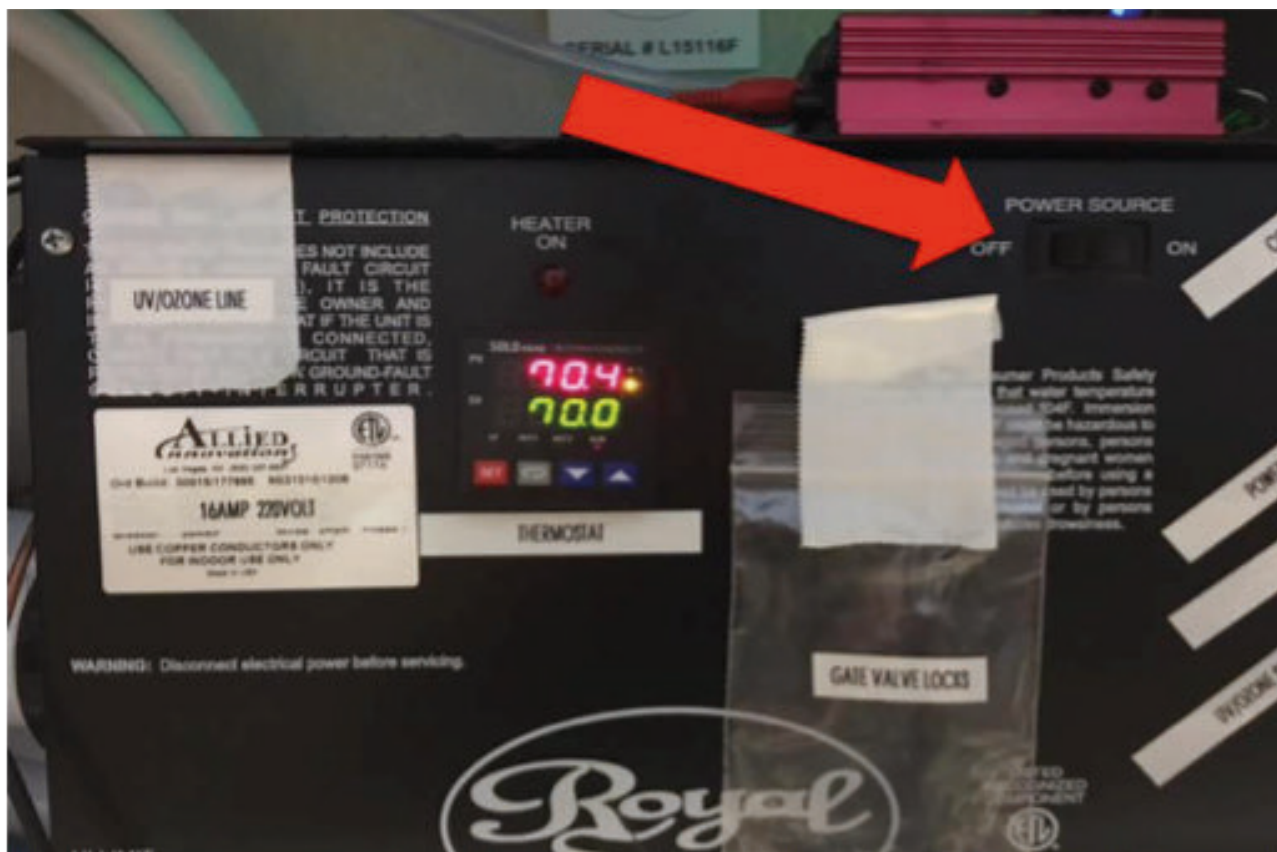
- 02** Make sure the nut on the filter is loose, allowing air to move through the system. See below



- 03** After 10 minutes of filling through the skimmer, you can now take the hose and place it in the pod.

Note: During filling, constantly check for leaks or loose fittings in the rear of the pod.

- 04** Fill the pod approximately 2 inches below the fill line on the skimmer. (This will allow room for the salt)
- 05** Once the pod is full, you can now turn the power switch to "ON". Confirm the circulation pump is running and water is moving around in the tub.
- 06** Set the digital thermostat to 94° F (Please let water heat overnight)
- 07** Once the water is up to temperature, you can now add the Epsom Salt. Use approximately 900 lbs of salt.



Float Tank Operation Essentials

Operate the filtration and UV/Ozone treatment system between each use. Comply with the minimum time or turnovers as per local jurisdiction requirements. All contact surfaces should be cleaned and disinfected between each session. Use appropriate chemicals to sanitize and disinfect float tank surfaces (eg Virex, Puregreen 24, etc).

Solution

Float tank solution is warm water with approximately 1000 lbs of dissolved USP grade magnesium sulfate (Epsom Salt). The Float Pod and Float Room contain 144 gallons of water and 850 lbs salt resulting in 180 gallons of solution. The Float Room XL contains 191 gallons of water and 1050 lbs salt resulting in 239 gallons of solution.

It is recommended the solution be replaced every 2500 floats. Add 4-6 oz. of 35% (food grade) hydrogen peroxide - H₂O₂ and maintain level at 50ppm over time.

Filtration

Filtration includes the filter and the filter well located in the corner of the float tank. Filtration is maintained by cleaning or replacing the filter every 50 sessions.

Specific Gravity

The buoyancy of the solution as a result of dissolved magnesium sulfate. Water and salt should be added 1-2x/week to maintain water level and 1.26 specific gravity.

Circulation

The circulation system includes the pump motor, the pressure jet, hair traps and intakes. Circulation is maintained by cleaning hair traps and intakes daily.

UltraViolet Light (UV)

UV creates a glow in UV assembly (only while in circulation) and when engaged kills bacteria. Manufacturer suggests replacing UV unit bulbs annually.

Ozone

A gas that's released into the main jet that kills bacteria and freshens the air, smells like a thunderstorm. Ozone is maintained by clearing the tubing with hot water as needed.

Disinfectants

Chemicals used to sanitize and disinfect float tank surfaces (eg Virex, Puregreen 24, etc). All contact surfaces should be cleaned and disinfected between each session.

Hydrogen Peroxide (H₂O₂)

Hydrogen Peroxide is neither a sanitizer nor a disinfectant in the float tank solution, but it does play an important role in the overall sanitary condition of the system. Hydrogen peroxide acts as an oxidizer in the aquatic environment, burning off organic material and improving clarity. It is also believed that peroxide acts synergistically with UV, creating hydroxyl radicals which further enhance the sanitation of the float solution. (North American Float Tank Standard). As Royal Spa utilizes UV and Ozone, h₂o₂ is not indicated in sanitation protocol. H₂o₂ can be used if solution clarity is not ideal, and is to be maintained between 50ppm. This can be attained by adding 4-6 oz of 35% (food grade) hydrogen peroxide overnight.

Warranty

1. 5-year structural warranty
2. 5-year shell warranty
3. 1-year surface warranty



Need Help ?

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