

SERVICE REQUIREMENTS

⚠ WARNING! *Read and understand the contents of this manual before attempting to service the S4 Water Treatment System. Failure to follow the instructions in this manual could result in death, serious personal injury, or severe property damage. Only trained and qualified technicians should attempt to install, maintain, or service Wellsys Equipment.*

1. Visually inspect all electrical and water connections for signs of wear or damage.

⚠ DANGER! ***HIGH VOLTAGE ELECTRICAL HAZARD.** Unplug before inspection and service.*

⚠ WARNING! ***ULTRAVIOLET RADIATION.** Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Disconnect before removing UV Lamp.*

⚠ CAUTION! ***UV LIGHTS ARE HAZARDOUS.** Lamps are considered Hazardous Waste and must be disposed of accordingly. Refer to Product MSDS sheet for details.*

2. Ensure there is adequate (minimum of 2") clearance around the **S4 Water Treatment System** and clean the condenser grill and compressor fan to provide efficient cooling system operation.

3. Sanitize the unit per instructions in the sanitization procedures.

⚠ WARNING! ***SANITIZER MAY CONTAIN HAZARDOUS CHEMICALS.** Use of proper personal protective equipment such as rubber gloves and eye protection are required.*

4. Clean and sanitize external surfaces of the **S4 Water Treatment System**. Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.

5. Remove and clean the Faucet. Replace as needed.

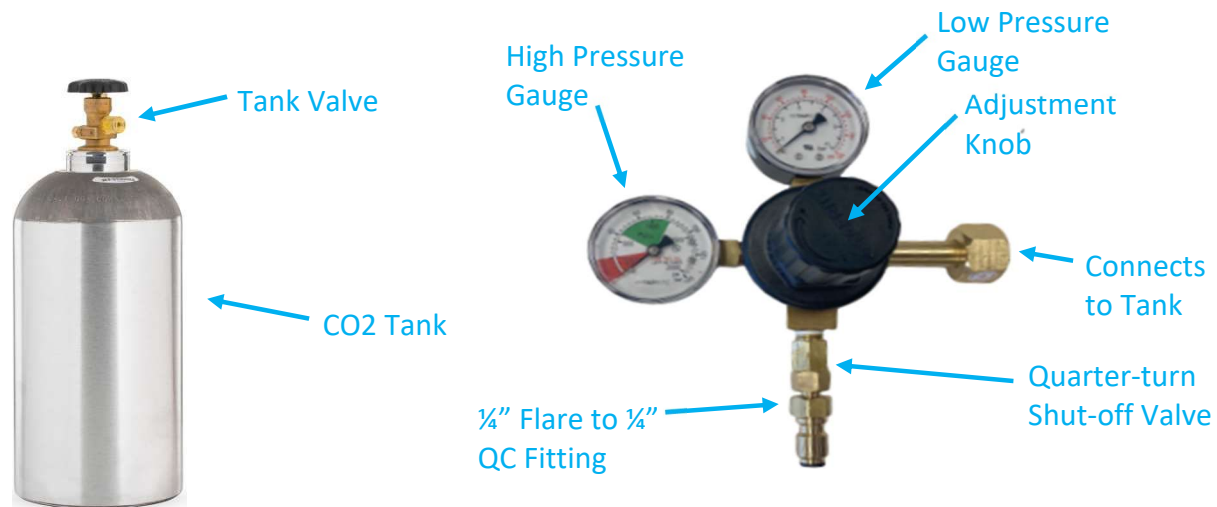
6. Descale Hot Tank Annually, or as needed.

7. If using filtration, flush in filters per instructions, and change filters on predetermined schedule, commonly every 12 months for standard filters.

INSTALLING THE CO2 TANK

The S4 produces sparkling water, thus it requires a CO2 supply to create it. Commonly, CO2 is supplied using a steel tank pressurized with CO2 gas paired with a valve and regulator. This section outlines how to properly set up a CO2 supply to the S4. For this guide, it is assumed you already have a CO2 bottle fitted with a manual valve.

CO2 Bottle and Regulator Overview



1. Use an adjustable wrench to install the regulator tightly to the CO2 Valve. Be aware there should be a nylon washer zip-tied to the valve connector of the pressure regulator. Cut this washer free, remove the zip-tie, and place the washer inside the valve connector before installing on the tank valve.
2. Connect several feet of 1/4" poly tube (LLDPE) to the regulator. This will later be used to make the gas connection to the unit. If you do not have a shut-off valve on the regulator, install a ball valve to the end of the poly tube. Keep the ball valve closed, and do not open tank valve until this has been done.
3. With the quarter-turn shut-off valve on the regulator closed, or the ball valve at the end of the poly tube closed, open the valve of the CO2 Tank.
4. Turn adjustment knob clockwise to raise pressure, counter-clockwise to lower pressure.
5. Set pressure 1bar more than water pressure to the unit (max pressure is 4 bar).
6. No Teflon tape is needed for flare fitting.
7. The gas bottle is ready to be placed into its storage area and connected to the unit when ready. Gas bottles should always be secured to avoid tipping.

SANITIZING

Sanitize the reservoir using a Hydrogen Peroxide or another approved cleaner. Follow all instructions on sanitizing and flush with fresh water through the drain until odor and taste is acceptable.

⚠️ WARNING! USE PROPER PERSONAL PROTECTIVE EQUIPMENT

Always ensure proper ventilation and use proper personal protective equipment such as gloves and eye protection when using chemicals. Refer to Material Safety Data Sheet for specific requirements of each chemical product. Take all necessary precautions to prevent sanitizer from contacting eyes, clothing, and any other surfaces in could damage (carpets).

⚠️ DANGER! ELECTRICAL SHOCK HAZARD.

Do not plug in unit unless qualified. Only qualified personnel who have read and understand this entire manual should attempt to install or service this unit.

⚠️ CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK.



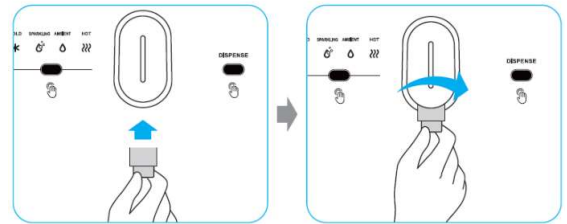
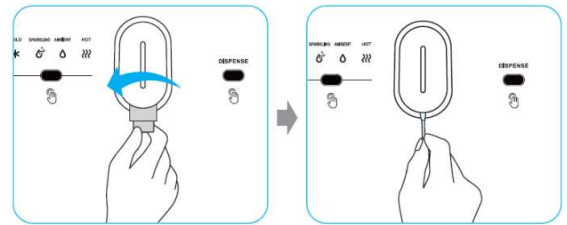
Flushing the Reservoir and Hot Tank

During the following steps you should check for any leaks or loose fittings.

1. Turn the water to the system on, plug the system in and let the reservoir fill. RO systems will fill in 1-2 hours and UF systems will fill in 5-10 minutes.
2. Wave hand over “Dispense” to ensure water dispenses from Cold. Wave hand over “Select” until Hot is selected and front LEDs change to Red. Wave hand over dispense again while the dispense light is red and ensure water dispenses from the Hot tank (it will not be hot yet, as you have not turned on the Hot tank switch).
3. Place a pitcher or bucket under the dispense nozzle and dispense about 1 gallon of water from the machine using cold and ambient dispense.
4. Located behind the front panel is a hot tank drain. Have a bucket ready below the unit to catch the water about to drain from the machine. Remove the cap and insert the supplied drain tube with double gasket fitting into the drain fitting, routing the other end to a bucket. The drain port will open once the fitting is inserted. Allow the system to drain until water flow stops.
5. Remove the drain line and allow the system to fill again. Drain one more time to rinse any cleaning agent from the system.
6. Remove the drain line from the drain port and restore the cap to its original position.

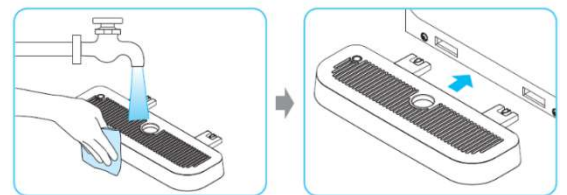
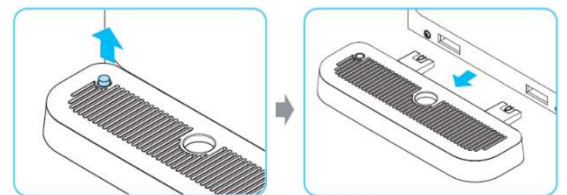
Water Dispensing Spout Cleaning Method

1. Turn the water dispense faucet to the left, unscrew from spout and remove.
2. Wipe the inside of the faucet with a soft cloth and cleaning agent.
*DO NOT use detergents, thinners, benzene, or wax for cleaning. This may cause discoloration or peeling off and may cause health problems.
3. After cleaning, assemble the water dispense spout by turning it to the right and screwing it back on.



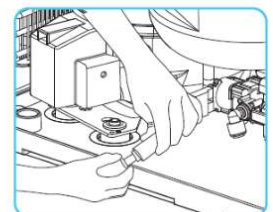
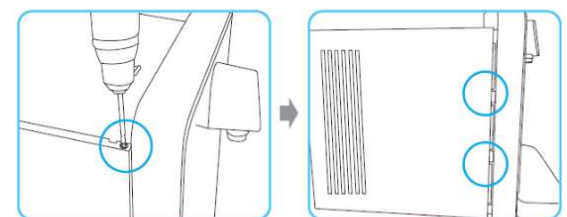
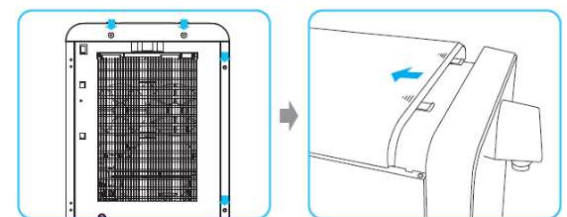
Drip Tray Cleaning

1. The float rises when the drip tray is full of water.
2. Pull the drip tray out for cleaning.
3. Clean up the drip tray with soft cloth or sponge with running water and approved cleaning agent. Dry off.
4. Push the drip tray back into the unit.



Drip Tray Cleaning

1. Use a screwdriver to remove the 4 screws on the back of the unit.
2. Slide the top cover back to remove it.
3. Remove the left panel by loosening one screw.
4. Gently press the side panel in and slide it back to remove it.
5. Open the coolant drain hose plug and drain the coolant to a bucket. *The Ice Bath hold about 6L of water.
6. Once drained, reassemble in reverse order of removal.



PREVENTATIVE MAINTENANCE

The following is an outline of preventative maintenance that should be performed on yearly or semi-yearly basis to keep the unit running in top shape.

If using filters, change filters according to the filter change schedule. Always rinse new filters using the same procedure as the original filters.

Descale the hot tank using the guide below:

- a. Dispense 4L of ambient water into a container and set aside for later use.
- b. Turn the power off.
- c. Remove the Top and Front Cover of the unit.
- d. With a bucket or pitcher ready, connect the drain hose to the drain port and drain the water from both the hot and reservoir tanks.
- e. Disconnect the drain hose.
- f. Open the reservoir cover, slowly pour 2L of descaling solution into reservoir.
- g. Wait 30min for the solution to descale the tank.
- h. Connect the drain hose and drain the solution out of the hot tank and reservoir.
- i. Remove the drain hose and pour the container with 4L of ambient water into the reservoir until water reaches the level sensor to flush the descaling solution.
- j. Reconnect the drain hose and drain the rinse water into the bucket.
- k. Reassemble the product and turn the power and water back on.

Drain the system and use Hydrogen Peroxide to sanitize the system as outlined in the sanitization section.

Check all fittings for signs of scale or wear and replace as needed.

Check condition of the float mechanisms. Pay special attention to ensure no water has infiltrated the float balls.

Check solenoids for proper function. Dripping solenoids should be replaced immediately.

Every 5 years, in addition to the above, perform the following:

Replace all internal fittings and tubing

Replace solenoids.

SYSTEM INSPECTION

When changing filters or performing service, the following items should be completed:

- Visual Inspection
- Hose & Fitting Inspection
- Electrical Inspection
- Pressure and Flow Test
- Clean the exterior of system and condenser coils on rear of system.
- Temperature Check (Cold water should be below 50°F, Hot water should be above 160°F)
- TDS Check
- Hot Tank Switch On
- Site Cleanup

WARRANTY PROCEDURE

Procedure for S4 warranty evaluation:

Contact WELLSYS technical support and provide the following information:

- Serial number
- Failure
- Full details around failure
- Water pressure into the system
- Tap TDS
- TDS out of the cold and hot tanks
- Pictures

Depending on the situation, technical support may request more information. Upon approval, WELLSYS will process warranty credit or replacement part to be fulfilled