

## WL7 FW INSTALLATION PROCEDURES

### Safety and Installation Guidelines

Ensure all Local, State, and Federal Laws and Codes including health and safety guidelines are met when installing **Waterlogic** Equipment. Only qualified service technicians should attempt installation and service of **Waterlogic** Equipment.

- ⚠ WARNING! ELECTRICAL SHOCK HAZARD.** Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.
- ⚠ WARNING! IMPROPER SUPPLY OR CONNECTION CAN RESULT IN RISK OF SHOCK.** Connect to a 15 amp 120V 60Hz properly grounded outlet (GFI is recommended). Ensure polarity is correct and always use a 3-prong outlet. Consult a qualified electrician if you have any questions.
- ⚠ WARNING! USE ONLY Waterlogic SUPPLIED POWER CORD.** Locate system within 5 feet of power supply. Never use an extension cord or adapter. Do not use a damaged power cord or plug. Keep power cord out of heavy traffic areas and away from heat sources. Do not, under any circumstances, remove ground prong or alter the power cord. Never pull the power plug from the outlet with a wet hand or allow the plug to get wet. Failure to use the supplied power cord will void UL Certification and Warranty.
- ⚠ CAUTION! INDOOR USE ONLY.** Never expose to direct sunlight, heat sources, or ambient air temperature above 37°C (100°F) or below 2°C (35°F). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 2-inches. Installs where the ambient temperature exceeds 27°C (80°F), require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.
- ⚠ CAUTION! USE A WATER PRESSURE REGULATOR.** **Waterlogic** will not be responsible for injury or damage caused by excessive water pressure. Operating pressure must be 40 psi to 60 psi. Be aware any of potential pressure surges caused by building/municipal pumping stations.
- ⚠ CAUTION! USE UV STABILIZED SUPPLY LINES.** Feed water over 37°C (100°F) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible. Locate the unit as close to the water supply and the electrical connections as possible. Immediately isolate or close water supply valve and contact service representative if leak is noticed.
- ⚠ WARNING! STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.** The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use to eliminate any potential microbiological contaminants

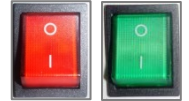
Pre-installation and sanitization procedures as prescribed in this manual must be performed before installing the **WL7 FW Water Purification Systems**.

Always install indoors and place the **Waterlogic WL7 FW Water Purification System** on a firm, flat and stable surface with adequate air gap to allow proper and efficient operation.

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1. Attach the water supply line to the 1/4" feed water inlet bulkhead fitting on the back of the unit. **Waterlogic** requires the use of a water pressure regulator. Water feed pressure must be between 40-60 psi and 2 lpm (0.5 gpm). Turn on the water supply and check for leaks.

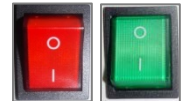
2. Check to ensure that both Power (Red) and Heater/Compressor (Green) Switches are in the *O=OFF* position.



**NOTE:** Switch has internal LED that illuminates when placed in *I=ON* position.

3. Connect the power cord to the back of the **Waterlogic WL7 FW Water Purification System** and to a 120 Volt 15 amp dedicated supply. GFCI protection is recommended.

4. Turn ON the Main Power (Red) Switch. Leave Green Switch OFF.



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

*Green Compressor/Heater Switch must be in the *O=OFF* position while the hot tank is empty.*

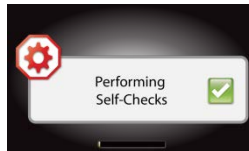
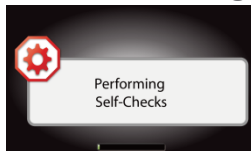
*Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty hot tank.*

5. **WL7 FW** will be in **Start-Up Mode** whenever you turn ON the Main Power (Red) Switch and Heater/Compressor (Green) Switch is in the OFF position.

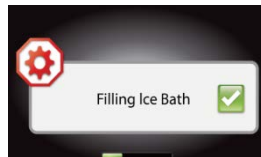
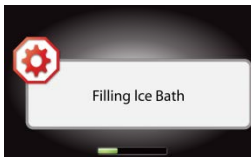
The start-up sequence should take approximately 5 minutes to complete when system is empty and status bar will flush indicating progress

**Start-Up Mode** process is as follows:

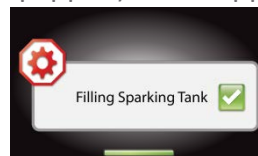
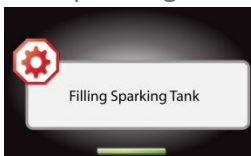
- Performs Self-Diagnostic Checks



- Fills ice bath with cooling water and flushes filters into the bath.



- Fills sparkling tank (if equipped). CO<sub>2</sub> supply does not need to be connected.



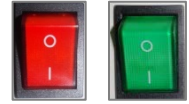
- Display will prompt installer to fill the hot tank to complete start up



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6. Follow instructions on the screen. The **WL7 FW** will instruct installer to hold the dispense button until a steady stream of water is flowing to the faucet. This fills the Hot Tank.

7. The installer should then turn ON the Heater/Compressor (Green) Switch.



8. The **WL7 FW** will now be in **Operational Mode** with both switches in the ON position and the home screen will appear on the display.

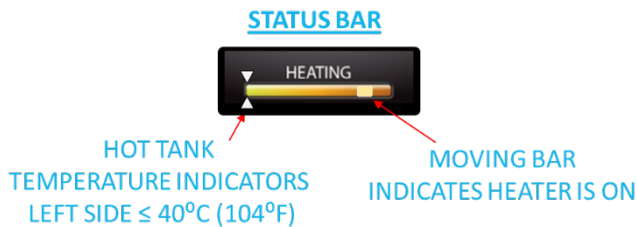


9. Dispense cold into container until steady stream of water is present to remove any trapped air from the circuit and repeat for the ambient (room temperature) circuit.

10. Connect 3 Bar (42.5 psi) supply of food grade CO<sub>2</sub> to the CO<sub>2</sub> inlet bulkhead fitting on the back of the unit. Dispense sparkling water until only gas is flowing to the faucet to purge the system of trapped air. WL7 FW should automatically refill the carbonator in approximately 30 seconds once the dispense button is released. The injection pump will turn on 2 seconds after releasing sparkling dispense button. Premium Sparkling Water will not be produced until the system has reach cold set point.

11. It will take the heater approximately 10 minutes to heat the water to the factory set point of 87°C (187°F). The hot status bar will flush when heater is on and be solid with heater off. The hot

status bar arrows indicate tank temperature from *below 40°C (104°F) on far left to set point on the far right.*

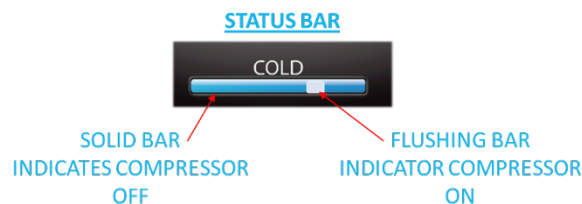


Dispense a cup of hot water to ensure the temperature/odor/taste is acceptable.

**⚠ WARNING!** *HOT WATER CAN BURN OR SCALD. The WL7 FW Water Purification System produces Hot Water up to 95°C (203°F). Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

12. Once the **WL7 FW Water Purification System** ice bath builds a complete ice ring in approximately 90 minutes depending upon environment. The compressor will shut off once the ice ring has reached thickness ice sensor.

The cold status bar will flush when compressor is on and be solid with compressor off.



You can visually inspect the ice ring through the access hole in the top of the ice bath if needed. The condenser at the rear of the unit will build heat as indication the refrigeration system is operating properly. Route all hose away from direct contact with heat from the condensing coils at the back of the unit.

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13. Dispense a cup of cold water to ensure the temperature/odor/taste is acceptable.
14. The sparkling chamber (carbonator) must be completely regenerated (emptied) a few times once the ice bath has reached set temperature and the drinking water line and sparkling chamber are cold. Regeneration will clear the chamber of the initial air and water trapped during startup and ensure that premium sparkling water is produced. Always use 3 Bar (42.5 psi) supply of food grade CO<sub>2</sub> and ensure bath has reached cold set point before regenerating sparkling water tank.

The WL7 FW ice ring takes hours to completely melt off in ambient conditions and can be used to help reduced setup time in field if unit is prepared in shop and left operational prior to field installation. The remaining ice ring will reduce cooling time at installation.

15. Dispense a cup of sparkling water to ensure the temperature/odor/taste is acceptable. Sparkling output (carbonation level) can be tested if needed. Additional information on Waterlogic Premium Sparkling Water can be found in this manual in sections:

- ***WL7 FW Principles of Operation - Dispensing Sparkling Water***
- ***Waterlogic Premium Sparkling Water Overview***

16. Move the ***Waterlogic WL7 FW Water Purification System*** into its final operating position. Be sure that a minimum of 2" clearance is maintained around both the sides and the back of the unit. This is important to allow proper airflow and heat exchange of refrigeration system.
17. Level unit using the adjustable feet to level if necessary. Never install on incline.
18. When the unit has reached its Hot Temp Set Point, ensure the heater cycles off.
19. When the unit has reached its Ice Bath Set Point, ensure the compressor cycles off.
20. Once the unit is at the target temperature(s), sample the water to ensure water meets expectations and additional rinsing or adjustment is not required.
21. Check the ***WL7 FW Water Purification System*** for any leaks. External Leak Protection is always recommended.

22. Confirm all program settings are correct and reset the Bottle Counter to Zero if needed. Enter maintenance mode and press and hold dispense



button until bottle counter flashes on display and two beeps are heard. Bottle counter will reset to zero once you release dispense button. Exit maintenance mode by tapping dispense 5 times in 10 seconds.

Always adjust Hot and Extra Hot Setting down when installing at elevation to avoid boiling hot tank.