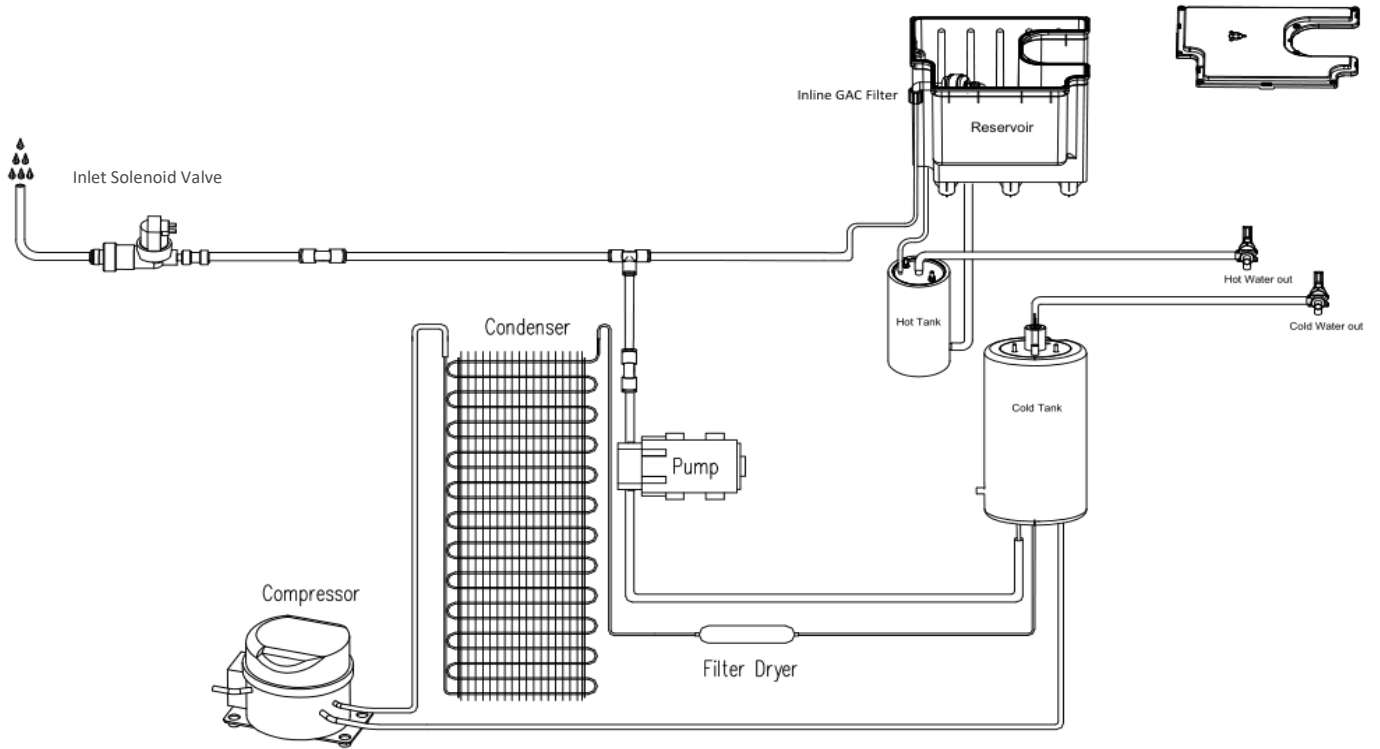
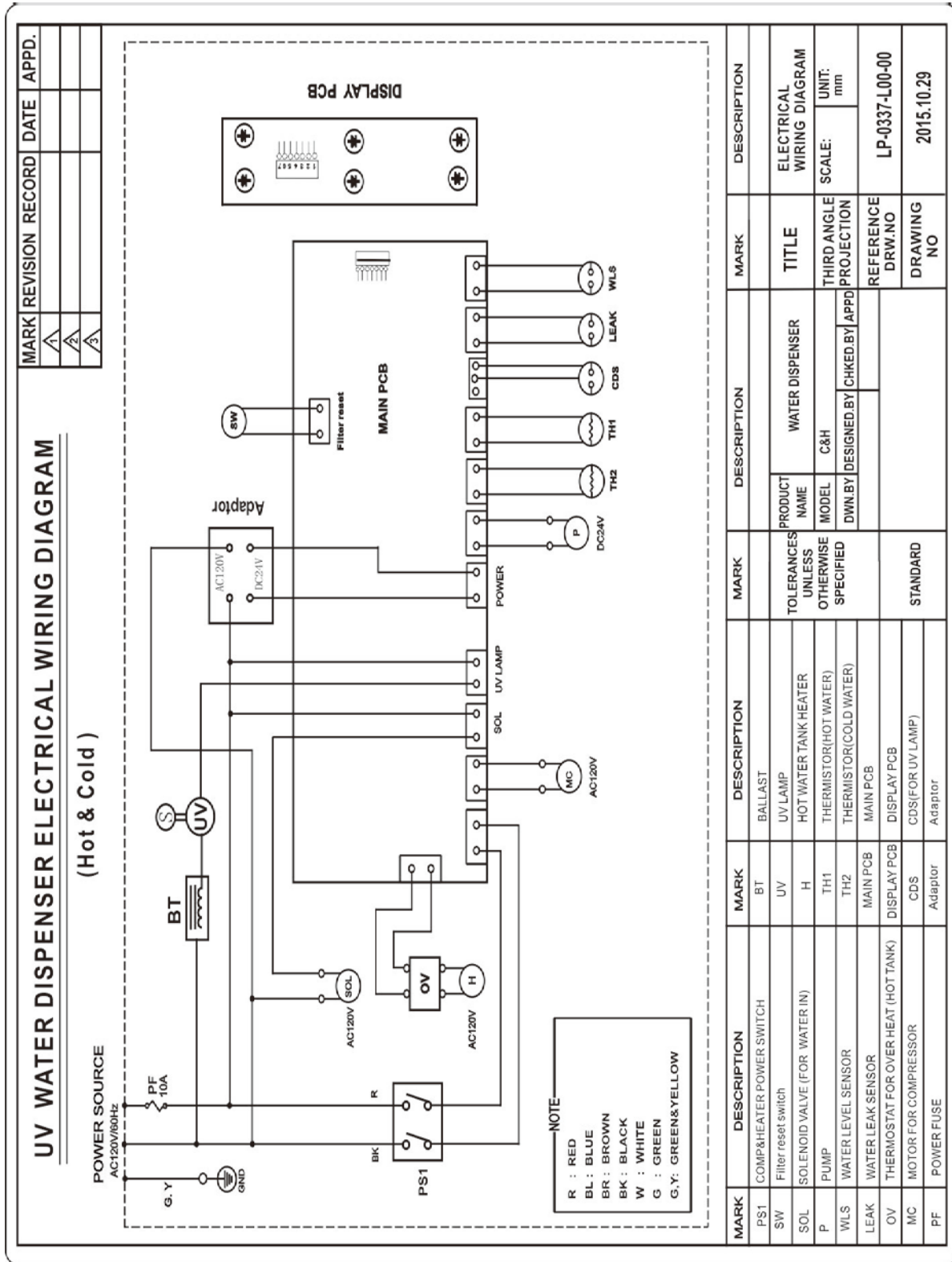


## WL290 WATER FLOW DIAGRAM



## WL290 ELECTRICAL DIAGRAM

**⚠ DANGER!** HIGH VOLTAGE ELECTRICAL HAZARD. PCB (Printed Circuit Board) contains High Voltage. Only trained and qualified technicians should attempt live testing.



## PRE-INSTALLATION PROCEDURES

**⚠ DANGER! ELECTRICAL SHOCK HAZARD.**

Only qualified personnel who have read and understand this entire manual should attempt to install, or service this unit, failure to do so could result in death or serious injury.

**⚠ WARNING! ALWAYS SANITIZE BEFORE USE.**

Sanitize before use to eliminate any potential microbiological contaminants.

Red Compressor/Heater Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the two Hot Tank Overload Devices (High Safety Limit) require manual reset if heater is turned on with an empty Hot Tank.



### Sanitization of Machine

#### Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Sanitizer - Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- Unused sponges or paper towels
- Dish Soap
- Clean water

1. Unpack the **Waterlogic WL290 Water Treatment System** and check exterior for damage.

**⚠ CAUTION! ALWAYS WASH THE INTERNAL PLASTIC RESERVOIR, LID AND FLOATS PRIOR TO INSTALLATION.**

The internal wetted surfaces of the machine have been handled multiple times in the process of manufacturing. By following the steps below, you will ensure the cleanliness and sterility of the drinking water

2. Remove the Top Cover of the **WL290 Water Treatment System**. The two screws securing the Top Cover are located in each rear corner.
3. Remove the Reservoir Tank Cover to access the Reservoir Tank.



Reservoir Tank Cover



Reservoir Tank

- Mix ½ gallon of sanitizer per directions or use Bleach Solution (1 teaspoon = 1/6 oz. = 5 ml = ½ cap full) of household bleach (Sodium Hypochlorite 5 - 10% Concentration). Always ensure sanitizer is compatible with stainless steel and acetyl plastic.

**⚠ WARNING!** *Use Personal Protective Equipment. Gloves and Eye Protection Required. The first 2 or 3 gallons of water will contain concentrated sanitizer. Use extreme care!*

- Start filling the Reservoir Tank with clean water, after approximately ½ full add in the sanitizer. Continue to fill the Reservoir Tank with water until full.
- The Circulation Pump will turn on when adding water to the Reservoir. Allow the water with bleach to circulate in the Reservoir Tank for 10 minutes.
- Drain the water with bleach by removing the Drain Valve Caps at rear of **WL290**. *Do not reinstall the Drain Valve Nuts at this time.*

- With a minimum of 10 liters of clean water, rinse out the Reservoir Tank to remove all bleach.



- Clean Reservoir Lid with Dish Soap and Water. Rinse thoroughly.

- Install the Hose Adaptor fitting that is packed in the accessories bag found in the drip tray onto the water inlet fitting on the back of the machine.



**⚠ CAUTION!** *DO NOT OVERTIGHTEN*

- Install the metal stand-off plate from the accessories bag and install over the water inlet. Connect a section of the ¼" plastic tubing from the water supply line into the hose adaptor fitting at the back of the unit.



**⚠ CAUTION!** *DO NOT TURN ON THE WATER YET*

**⚠ CAUTION!** *FILTER FLUSHES REQUIRED.*

*WL290 Water Treatment Systems are not supplied with filters. Filters should be configured to optimize your system. Filters need to be configured and specified to do the job given the local water conditions, usage, maintenance schedule, and placement restrictions.*

*In order for our filters to perform as represented and to provide the best quality water possible, it is essential that filters be replaced periodically. The frequency of filter changes depends upon your water quality and your water usage. For example, if there is a lot of sediment and/or particles in your water, then you will have to change your filters more frequently than a location with little to no sediment. Be sure to replace your filters whenever you notice a decline in the performance, whether it is a drop in flow rate and/or pressure or an unusual taste in the water.*

12. Flush thoroughly per filter manufacturers' recommendation with fresh water to drain.
13. Once flushed, install the filters. Following the flow direction on the filters.

**NOTE:** Filters should not be flushed prior to 24 hours before installation to limit Microbial Growth.

*If you intend to use the Waterlogic RO System, you must remove the filter plate supplied behind the lower front panel (four screws total). The RO System then mounts on the rails just above the compressor. Route the RO drain line through the port that is protected by the rubber grommet on the back of the machine.*

*Red Compressor/Heater Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the two Hot Tank Overload Devices (High Safety Limit) require manual reset if heater is turned on with an empty Hot Tank.*



15. Replace the Reservoir Cover and Top Cover.
16. Turn on the Red Compressor / Heater Switch. This will start the chilling and heating processes.

*Red Compressor/Heater Switch must be in the I=ON position.*



17. Verify the compressor starts by feeling the head of the compressor for vibration. The temperature in the cold tank should reach its target temperature within 45 minutes. When the unit has reached target cold temperature, the compressor will cycle off. The Hot Tank will take considerably less time to reach its target temperature of 85°C (185°F).
18. After the cold and hot water temperatures, have been reached, turn the Red Heater/Compressor Switch off.

*Red Heater and Compressor Power Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the two Hot Tank Overload Devices (High Safety Limit) require manual reset if heater is turned on with an empty Hot Tank.*



## **DRAINING INSTRUCTIONS**

Drain the **WL290** Water *Treatment System* for transportation.

**⚠ WARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.**

*The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbial growth).*

Prior to draining the Hot Tank, turn off the Red Heater and Compressor Power Switch *O = OFF*, and dispense 2 liters of hot water from the machine. As hot water is dispensed from the faucet of the unit, colder water will be introduced into the Hot Tank. Since the Red Power switch is turned off, the heater will not energize and heat the incoming tap water. Following this precaution prevents exposing personnel and equipment (drains, catch basin, etc.) to scalding hot water.



### **Disable Cold and Hot Tanks**

1. Turn off the Red Heater and Compressor Power Switch to disable the heater and compressor.
2. Dispense 2 liters of water through the Hot Tank to cool the water temperature in the Hot Tank and avoid burns.



**⚠ WARNING! HOT WATER CAN BURN OR SCALD.**

*Hot water should be dispensed carefully into insulated container to avoid injury.*

### **Turn off Water Supply and Bleed Water Pressure**

3. Isolate the unit from feed water by turning off the supply.
4. Dispense cold still water to relieve any pressure built up in the system.
5. Remove the water supply line from the hose adaptor.

### **Drain the Cold Water Tank and Circuit**

6. Remove Hose Adaptor.
7. Remove both Drain Caps located on back of unit.
8. After unit drains, replace drain caps.

## **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 100°F (37°C) or below 35°F (2°C). 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 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 the unit with a potable ambient or cold water supply only. Feed water over 100°F (37°C) 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.*

**⚠ 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 **WL290 Water Treatment System**.