

WL350

OPERATING, INSTALLATION, AND SERVICE MANUAL





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WL350 OPERATING, INSTALLATION, AND SERVICE MANUAL

Congratulations on your choice of the *Waterlogic WL350* water treatment system. The *WL350* model dispenses cold, and hot. Every *WL350* includes:



High Performance Multi-Stage Filtration



Bio-Cote Anti-Microbial Protection



Firewall Advanced Purification

The Waterlogic WL350 provides exceptional quality and great tasting water with every use.

TABLE OF CONTENTS

	Features and Benefits	3
•	Certifications	4
•	Introduction	5
•	Safety Alert Symbols	5
•	Safety Precautions	6
•	Model and Part Designations	7
•	Specifications	7
•	Operating Instructions	8
•	Hot Tank Principles of Operation	9
•	Flow Diagrams	10
•	Programming Instructions	12
•	Pre-Installation Procedures	14
•	Draining Procedures	18
•	Installation Procedures	22
•	Service Requirements	24
•	Replacement Components	25
•	Hot Tank Descaling Instructions	26
•	Resetting the Overload or High Limit Safety	28
•	Drawings and Parts Lists	30
•	Electrical Diagrams	37
•	Firewall Outlet Solenoids – Reverse Flow Orientation	39
•	Fault Codes and Troubleshooting	40
•	Warranty	63





WL350 FEATURES AND BENEFITS

Cold and Hot Water

Counter Top and Tower Models come standard with Cold and Hot Selections to meet a wide range of customer demands.

High Volume Storage and Water Capacity

Tower Model has 4 liters of Cold Water Capacity and 1.6 Liters of Hot Water Capacity. Counter Top has 2 liters of Cold Water Capacity and 1.6 Liters of Hot Water Capacity.

BioCote®Anti-Microbial Protection

Plastic surfaces surrounding dispensing areas and drip tray are infused with an exclusive silver additive called BioCote®. Silver is a natural anti-microbial that inhibits the growth of microorganisms providing additional surface protection.



Large Dispense Area with Recessed Faucet

8.5 inch dispense height with BioCote® recessed faucet to protect from cross-contamination.

Leak Detection

WL350's are supplied with a Sensor in the Leak Tray that halts water supply to prevent overflow and sounds alarm to reduce accident potential.

Child Safeguard

WL350 requires Hot Water selection followed by main dispense for Hot Water, and defaults back to cold selection after 3 seconds of inactivity to prevent accidental dispensing of hot water.

Energy Saving Sleep Mode

Energy saving Sleep Mode can be programmed to turn off heater after 3 hours of inactivity.

Firewall™

Firewall is proprietary technology that places the UV lamp at the point of dispense. This point of dispense purification keeps the dispense nozzle free from external contamination as well as purifying the water, making the freshest water possible.



Auxiliary Port

Auxiliary Port to feed Coffee Machines or other Appliances on Counter Top Models.



WL350 CERTIFICATIONS

Waterlogic water treatment systems have been tested, approved, and certified by the world's top standards bodies such as NSF and ANSI. These organizations set and regulate national standards. We believe that performance testing and certifications validate *Waterlogic* as a world-leader in water treatment systems.

WL350 Certifications Include





Water Quality Association is an international standards organization. Firewall™ Technology contains our latest, most innovative and patented breakthrough, "The Firewall™", the most comprehensive UV purification system for point-of-use water treatment systems ever developed. The Waterlogic Firewall components has been tested and certified by the Water Quality Association (WQA) to NSF/ANSI-55 Class A − Ultraviolet Microbiological Water Treatment Systems, and to NSF/P231 and the USEPA Standard for Microbiological Water Purifiers.

NSF P231 - Protocol for Microbiological Purifiers

The Public Health and Safety Organization establishes minimum requirements for health and sanitation characteristics of microbiological water purifiers. The requirements are based on the recommendations of the U.S. Environmental Protection Agency's Task Force Report.

NSF/ANSI-42 – Chlorine, Taste and Odor Reduction

NSF/ANSI-53 – Lead and Cyst Reduction

The Public Health and Safety Organization establishes minimum requirements for materials, design, construction, and performance of drinking water treatment units that are designed to reduce specific aesthetic-related contaminants in public or private water supplies.



UL399 – Certified Drinking Water Cooler

Intertek Labs (ETL) Certified the WL350 to ANSI/UL 399 Standard for Drinking Water Coolers.



BPA Free - Waterlogic tests for BPA and declares that all of its products are Bisphenol-A FREE and contain no harmful BPA plastics.

Waterlogic manufacturing is certified to ISO 9001 – Quality Management Systems (certified by Moody International). ISO 9001 is the internationally accepted standard for well managed organizations that have adopted the key quality management principles to its operations to bring consistent quality products and a culture of continuous improvement.



Safe Drinking Water Act

Waterlogic water treatment systems conform to the Safe Drinking Water Act (SWDA) "lead-free" amendment effective January 4, 2014.



INTRODUCTION

Carefully read and follow all instructions to ensure proper and efficient operation of your WL350. Contact Waterlogic or an Authorized Waterlogic Dealer if you have any questions.

Waterlogic and Authorized Waterlogic Dealers employ trained service personnel who are experienced in the installation, function and repair of Waterlogic equipment. This publication is written for use by these qualified individuals. Waterlogic encourages users to learn about products, however, we believe that product knowledge and service is best obtained by consulting Waterlogic or an Authorized Waterlogic Dealer.

Waterlogic water treatment systems should be combined with selected water treatment components to create a system specifically tailored for each application by trained and qualified personnel.

Products manufactured and marketed by Waterlogic and its affiliates are protected by patents issued or pending in the United States and other countries.

Waterlogic reserves the right to change the specifications referred to in this literature at any time, without prior notice. Changes or modifications not expressly approved by Waterlogic could void the warranty and user's authority to operate the equipment.

SAFETY ALERT SYMBOLS

Read and follow all safety information carefully. The signal words used in this manual are selected as shown below and based on an assessment of the degree of potential injury or damage (severe or minor) and the occurrence of injury (definitely occurs or has the potential to occur) when the warning is ignored:



DANGER!

Indicates a situation which, when not avoided, results in death or severe injury.



⚠ WARNING!

Indicates a situation which, when not avoided, has the potential to result in death or severe injury; and/or severe property damage.



CAUTION!

Indicates a situation which, when not avoided, results or has the potential to result in minor injury; and/or minor property damage.



Page 6 - Revision: 5-21-2015

SAFETY PRECAUTIONS

Basic safety precautions should be followed, including the following:

<u>DANGER!</u> If incorrectly installed, operated or maintained, this product can cause death or severe injury. Those who install, operate, or maintain this product should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to install, operate, or maintain this product.

<u>WARNING!</u> Unit is to be used for its intended purpose as described in this manual, and untrained individuals who use this manual assume the risk of any resulting property damage or personal injury.

<u>WARNING!</u> HOT WATER. Unit produces Hot Water up to 187°F. Water above 125°F can cause severe burns or scalding. Keep unauthorized people and children away from the unit to avoid accidental dispensing of hot water. Children should not use without supervision.

<u>DANGER!</u> ELECTRICAL SHOCK HAZARD. Always unplug from power supply prior to servicing equipment to prevent electrical shock.

<u>WARNING!</u> This system to be used for water only and is not intended for use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. The system is designed for the supplemental bactericidal treatment of either treated and disinfected public drinking water, or other drinking water, which has been tested and deemed acceptable for human consumption by the state or local health agency having jurisdiction. The system is designed to reduce normally occurring non-pathogenic or nuisance microorganisms only. System is not intended for treatment of contaminated water.

<u>WARNING!</u> Dispenser Could Tip or Fall causing serious injury. Always install unit on a firm, flat, and level surface and secure the WL350 to the base cabinet with the screw provided to lock the components together. Never place heavy items on top of unit and never climb, stand, or hang on unit or storage cabinet to prevent injury and damage.

<u>CAUTION!</u> INDOOR USE ONLY. Do not install outdoors or where unit is in direct sunlight. Do not install where ambient temperature goes below 50F or above 97F. Avoid high humidity and moisture. Product life and performance will be impacted and warranty could be voided.



MODEL/PART DESIGNATIONS

BRAND NAME	DESCRIPTION	MODEL – PART NUMBER
<i>WL350</i> Counter Top	Waterlogic WL350 Counter Top - Cold and Hot	12-CHCMFW3
	F-2FW-M-HC-TT-CS-INN	
14// 250 T	Waterlogic WL350 Tower - Cold and Hot	12-CHCFW3
<i>WL350</i> Tower	F-2FW-FS-HC-TT-CS-INN	

SPECIFICATIONS

<u>ITEM</u>	WL350 Counter Top	<u>WL350 Tower</u>	
Water Connection	¼" Quick Connect		
Cold Water Temperature	Cold Water Temperature – Factory Set Po (Adjustable) 34° - 54° F. $(1.1^{\circ}$ - 12.2° C)	int 41° - 5°C	
Hot Water Temperature	187° F (85°C)		
Hot Water Manual Reset Overload	207° F (97°C)		
Recommended Service Pressure	40-60 psi (275-414 kPa) – Use Pressure Regulator		
Maximum Service Pressure	100 psi (689 kPa) – Use Pressure Regulato	or	
Rated Service Flow	0.5 gallons per minute (1.89 Lpm)		
Environmental Temperature	35° - 100°F (2° - 37°C)		
UV Lamp	15 Watts 15 Watts		
Heater	500 W		
Refrigerant Gas	R134a, 40g, 1.41 ounces	R134a, 65g, 2.29 ounces	
R134a Pressures	ressures High (230 psi), Low (90 psi)		

SHIPPING SPECIFICATIONS

<u>ITEM</u>	WL350 Counter Top	<u>WL350 Tower</u>
Width/Depth/Height	13.5" x 14.5" x 17.75" [#] (34cm x 37cm x 45cm)	13.5" x 14.5 x 41" (34cm x 41cm x 104cm)
Weight (dry)	58 pounds (26.5 kg)	66 pounds (30 kg)

ELECTRICAL SPECIFICATIONS

ELECTRICAL SUPPLY	120V/60Hz	15 Amp Service AMP DRAW (approximate)	
COMPONENT	POWER (approximate)		
Heater	504	4.2 Amps	
Compressor	216	1.8 Amps	
UV Lamp System	18	0.15 Amps	
WL350 TOTAL	738	6.15 Amps	

#WL350 Counter Top is 17.75 in. tall and may not fit between countertops and cabinets - Check installation to ensure adequate clearance.



OPERATING INSTRUCTIONS



The above picture shows front LCD display and control panel for the Waterlogic WL350.

For Cold Water: Press Cold Water Select Button followed by the Dispensing Button (within 3

seconds).

For Hot Water: Press Hot Water Select Button followed by the Dispensing Button (within 3

seconds).

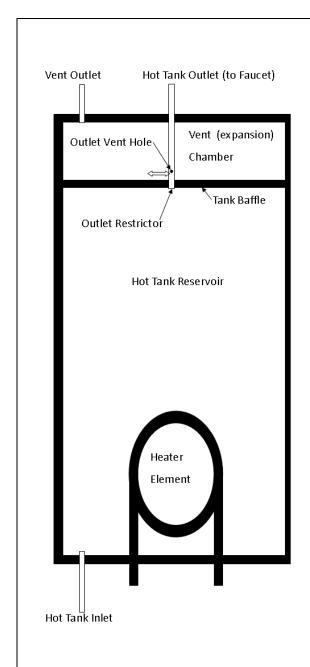
NOTE: Default selection mode is Cold Water. Selection will return to default after 3 seconds of inactivity.

NOTE: Selection indication light will turn red when the Hot Water Select button is pressed, and will switch back to the default green within 3 seconds after dispensing the hot water.





HOT TANK PRINCIPLES OF OPERATION



All *Waterlogic* Hot Tanks have a built in Vent or Expansion Chamber in the top of the tank except for WL270 (GF) units.

The Vent Chamber allows for expansion of the water when it is heated.

The chambers are separated by a welded-in tank baffle.

Water always flows into the bottom of the tank and out the top to the faucet.

The hot tank outlet tube has a restrictor in its base. This ensures the reservoir is always full by allowing more water in than out.

There is a small hole in the side of the tank outlet tube that allows air and water to pass into the vent chamber as it is heated.

Water in the vent chamber is suctioned back through the outlet tube vent hole when water is dispensed.

Expansion of water as it is heated in the reservoir will push the water out the faucet when the outlet tube vent hole becomes plugged with debris or scale.

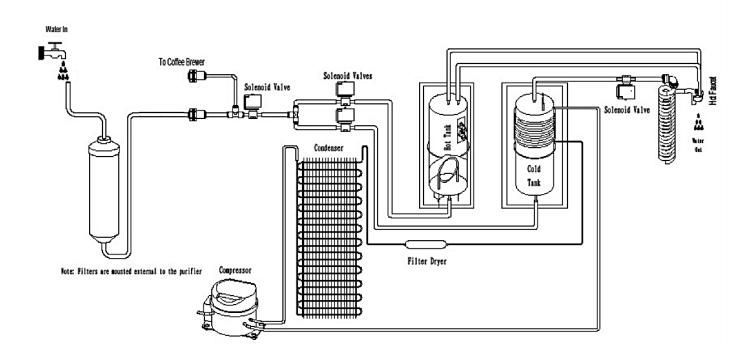
The small Outlet Vent Hole is susceptible to scale build up and is a key indicator that descaling is required.

It is critical to descale the hot tank through the vent line and outlet line on a regular basis to prevent this problem.

Descaling through the inlet and/or outlet lines only will not clean the vent chamber and outlet vent hole properly.



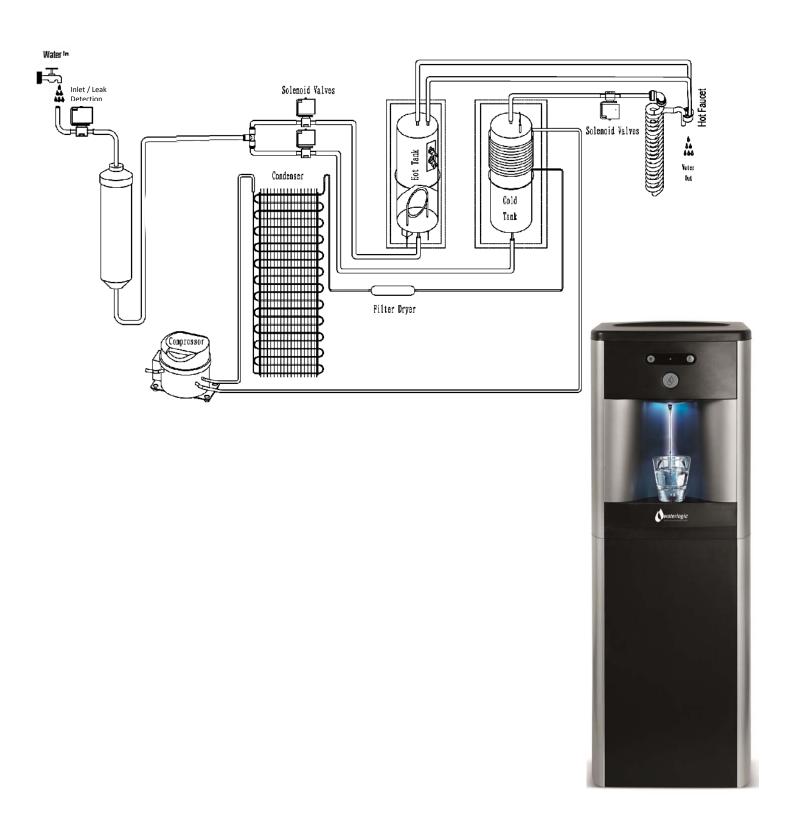
WL350 COUNTER TOP WATER FLOW DIAGRAM







WL350 TOWER WATER FLOW DIAGRAM





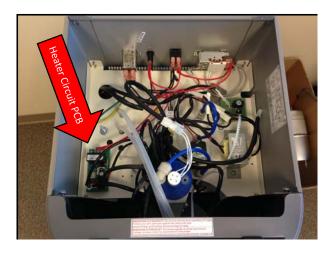
PROGRAMMING INSTRUCTIONS

DISABLING SLEEP MODE

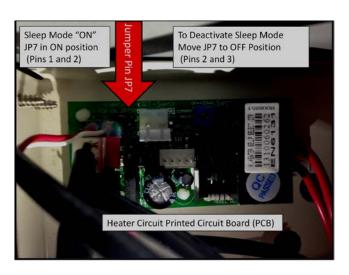
All *WL350's* come from the factory with Energy Saving Sleep Mode engaged to meet the Energy Star Certification requirements. Sleep Mode disables the heater circuit if the unit has not been used for a continuous 3 hour or longer period. Selecting any button "wakes up" the *WL350* and turns the heater circuit back on. The hot tank will typically take less than 10 minutes to heat the water from ambient to the 187° F set point.

Sleep Mode can be disabled by moving the sleep mode jumper pin on the internal heater printed circuit board (PCB) as shown below.

1. Unplug Power Cord and remove top cover to access Heater Circuit PCB



2. **WL350** comes with Sleep Mode active with Jumper JP7 in the "ON" position (Pin 1 and 2) on the Heater Circuit internal Printed Circuit Board (PCB). Deactivate the sleep mode function by moving PCB Jumper Pin JP7 – Part Number 20-1005 to the "OFF" position (Pins 2 and 3).

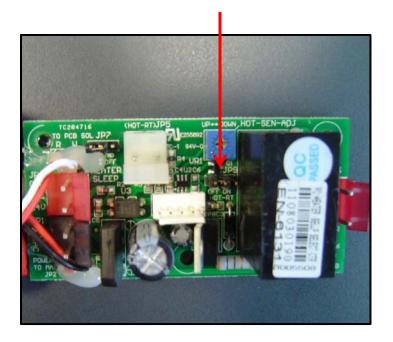




PROGRAMMING INSTRUCTIONS

CHANGING HOT WATER MODE TO AMBIENT WATER

To change the *WL350* from a hot/cold unit to an ambient / cold model, move the PCB Jumper *Part Number 20-1005* on JP9 (located on the internal PCB) from Pins 1 and 2 to Pins 2 and 3.





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. DO NOT plug into an electrical supply until specifically instructed.



WARNING! ALWAYS SANITIZE BEFORE USE.

Sanitize before use to eliminate any potential microbiological contaminates.

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5 gallon container or drain basin
- Sanitizer Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- TDS Meter and Test Strips for measuring chlorine Optional
- Sanitizing Cartridge
- 1. Unpack the *Waterlogic WL350* and check exterior for damage.

Sanitizing

Sanitize using a Household Bleach (5.25% Sodium Hypochlorite solution) or other approved cleaner throughout the cold and sparkling water circuits. Follow all instructions on the sanitizer and flush with fresh water through the faucet 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).

- 2. Put 1 teaspoon of sanitizer per directions or use Bleach Solution (1 teaspoon = 1/6 oz. = 5 ml = $\frac{1}{2}$ cap full) of household bleach (Sodium Hypochlorite 5 - 10% Concentration) in the Sanitizing Cartridge. Always ensure sanitizer is compatible with stainless steel and acetyl plastic.
- 3. Connect sanitizing cartridge to inlet water supply and connect to inlet bulkhead fitting on back of unit. Turn on water supply.
- 4. Connect power to WL350. DO NOT TURN ON RED COMPRESSOR HEATER SWITCH AT THIS TIME.

WL350 Operating, Installation, and Service Manual

Page 14 - Revision: 5-21-2015



Fill the Cold Circuit with Sanitizer

5. Depress the main dispensing button on the front control panel until cold water/sanitizing solution comes out the faucet. **NOTE**: Container and drain basin will be required to catch the water from the faucet.

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

6. Turn off water supply and remove Sanitizing Cartridge from inlet water supply. Reconnect water supply to inlet bulkhead fitting.

Flush Filters



CAUTION! FILTER FLUSH REQUIRED.

WL350's 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.

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

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

9. Connect WL350 to power.



CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK.

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 overload (high limit) will require manual reset if heater is turned on with an empty hot tank.





Flushing the Sanitizer from the Machine

- 10. Place a pitcher, catch basin, or other container under the faucet of the WL350.
- 11. Flush the Cold Tank. Run several gallons of water through the faucet by dispensing cold water to dilute and remove the sanitizer from the cold circuit. You can use chlorine test strips to evaluate the water.
- 12. Once the sanitizer odor/taste has been flushed out of the cold side of the machine the sanitization process for the Cold Circuit is now complete.

Fill the Hot Tank

13. Press the Hot Water Select Button, followed by the main dispensing button to fill the hot tank. Water will dispense from the faucet once the hot tank is full. Flush until water is clear.

<u>MARNING!</u> HOT CIRCUIT IS NOT SANITIZED.

Water in the hot circuit is not sanitary until the temperature exceeds 171°F for at least 5 minutes.

UV System Functional Test

<u>WARNING!</u> ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Disconnect wiring before removing.

- 14. Remove UV Firewall Lamp from Firewall housing. Remove top cover from Firewall housing. Carefully remove quartz sleeve spiral from Firewall Housing and inspect for cracks or other damage. Reinsert quartz sleeve spiral, replace top cover of housing. Inspect UV lamp and reinsert into housing.
- 15. Press dispensing button and check for blue glow from top of Firewall Housing and at Faucet dispensing area to ensure UV lamp is operational.
- 16. Disconnect UV lamp to test UV lamp sensor operation. Unit should alarm and green indication LED on front of unit should flash.
- 17. Disconnect power to WL350.
- 18. Reconnect UV lamp.
- 19. Connect power to WL350.



Compressor Test

20. Switch Red Compressor / Heater to on I=ON position. Always ensure tanks are full of water before turning on the heater or the overload (high limit) will open and require manual reset. If the wire condenser at back of the unit is warm, the refrigeration system is working.



21. Once the machine reaches its target temperature, the compressor will shut off. Draw a glass of cold water and verify it is has been chilled to proper temperature.

Heater Test

22. Always ensure tanks are full of water before turning on the heater or the overload (high limit) will open and require manual reset. It will take the heater approximately 10 minutes to heat the water from ambient 75°F to the factory set point of 187°F. Dispense a cup of hot water to ensure the temperature/odor/taste is acceptable.



WARNING! VERY HOT WATER CAN BURN OR SCALD.

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



WL350 COUNTER TOP DRAINING INSTRUCTIONS

Draining Notes

Drain the WL350 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 Compressor / Heater 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 Red Compressor / Heater 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 Compressor / Heater switch *O=OFF*, 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! VERY HOT WATER CAN BURN OR SCALD.

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

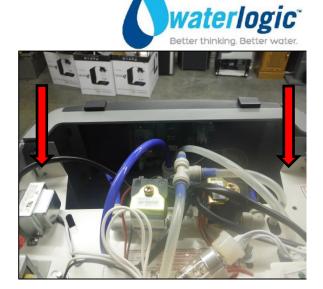
Turn off Water Supply and Bleed Water Pressure

- 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 inlet line bulkhead fitting at back of machine.
- 6. Install dust cap or plug into water supply line bulkhead fitting.

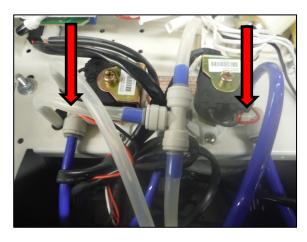
Drain the Cold Water Tank and Circuit

7. Remove top cover.

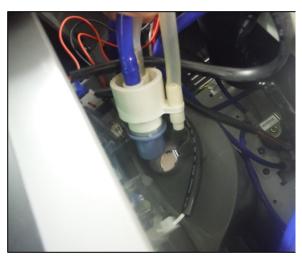
8. Remove front panel. Remove 2 Phillip screws securing front panel. Unseat faucet assembly from panel. Unclip wires from PCB.



9. Disconnect tubing from inlet elbows on both solenoids and allow water to drain.



10. Reconnect tubing into inlet elbows.



- 11. Dry inside of unit.
- 12. Replace front panel.



WL350 TOWER DRAINING INSTRUCTIONS

Draining Notes

Drain the WL350 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 Compressor / Heater 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 Compressor / Heater 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 Compressor / Heater switch *O=OFF* 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! VERY HOT WATER CAN BURN OR SCALD.

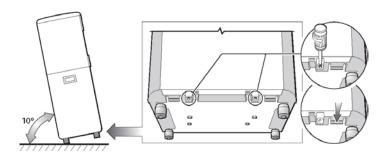
Hot water should be dispensed carefully into insulated container to avoid injury.

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 inlet line bulkhead fitting at back of machine.
- 6. Install dust cap or plug into water supply line bulkhead fitting.

Drain the Cold Water Tank and Circuit

7. Remove lower front panel to access tank feed lines.



8. Disconnect tank line feed lines from hot and cold inlet solenoids to drain into basin or catch.



- 9. Reconnect tubing into inlet elbows once drained.
- 10. Dry inside of unit if necessary.
- 11. Replace lower front panel.



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.

<u>WARNING!</u> 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 IS 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 exceed 80F, require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.

<u>CAUTION!</u> 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.

<u>MARNING!</u> 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 contaminates

Pre-installation and sanitization procedures as prescribed in this manual must be performed before installing the *WL350*.

Always install indoors and place the *Waterlogic WL350* on a firm, flat and stable surface.



- 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. Turn on the water supply and check for leaks.
- 2. Check to ensure that the Red Compressor / Heater switch is the O=OFF position.





- 3. Connect the power cord to the back of the Waterlogic WL350 and to a 120 Volt supply.
- 4. Fill the Cold Tank. Hold a container under the dispensing faucet, press and hold the main dispensing button until a continuous flow of water is obtained. Once a continuous flow is obtained, release the dispensing button. Cold tank is now full.
- 5. Fill the Hot Tank. Hold a container under the dispensing faucet. Press the Hot Select Button followed by the main dispensing button until a continuous flow of water is obtained. Once a continuous flow is obtained, release the main dispensing button. Hot tank is now full.

CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK.

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 overload (high limit) will require manual reset if heater is turned on with an empty hot tank.

- 6. Verify that the UV lamp operates as expected.
 - <u>WARNING!</u> ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Always disconnect before removal.
- 7. Move the *Waterlogic WL350* 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.
- 8. Level unit using the adjustable feet to level if necessary. Never install on incline.
- 9. Turn the Red Compressor / Heater Power Switch to I=ON position.
- 10. When the unit has reached its Hot Temp Set Point, the heater will cycle off. When the unit has reached its Cold Temp Set Point Temperature, the compressor will cycle off.



- 11. 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.
- 12. Check the unit for any leaks. External Leak Protection is always recommended.



SERVICE REQUIREMENTS

<u>WARNING!</u> Read and understand the contents of this manual before attempting to service WL350. 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 Waterlogic 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.
- 2. Waterlogic recommends changing the UV Lamp every 6 months.
 - <u>WARNING!</u> ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Disconnect before removing UV Lamp.
 - <u>CAUTION!</u> UV LAMPS ARE HAZARDOUS. Lamps are considered Hazardous Waste and must be disposed of accordingly. Refer to Product MSDS sheet for details.
- 3. Clean the spiral quartz sleeve that surrounds the UV lamp with a non-abrasive cloth, descaling solution, or ultrasonic bath if needed when changing UV lamps.
 - <u>CAUTION!</u> UV SYSTEM IS FRAGILE. Never handle the UV lamp or Quartz Sleeve with bare hands. UV Lamp and quartz sleeve must be free of oils and contaminants to ensure proper operation. Use a soft non-abrasive cloth to clean.
- 4. Sanitize the cold tank per instructions in the pre-installation procedures.
- 5. Clean and sanitize external surfaces of the unit. Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.
- 6. Remove and clean the Faucet. Replace as needed.
 - <u>WARNING!</u> SANITIZER MAY CONTAIN HAZARDOUS CHEMICALS. Use of proper personal protective equipment such as rubber gloves and eye protection is required.



REPLACEMENT COMPONENTS

Component	Part No.	Frequency of Replacement
LIV/Light 1E Watte	CT 200F A	Every 6 months, or as required
UV Light, 15 Watts	CT-2085-A	WLUSA Part No 12-8310
LIV Spiral Quartz Slague	FU 0007	Clean every 12 months, replace as needed
UV Spiral Quartz Sleeve	FU-0007	WLUSA Part No 12-8305
Hot Tank 187°F (87°C)	UT 2041	Replace every 5 years
HOL TAIR 167 F (67 C)	HT-3041	WLUSA Part No 12-5615
1-Micron CBC Cyst / Lead		Every 6-months, or as required. Local
Reduction Filter Assembly NSF	FT-0063	water conditions will determine proper
53 *		filter type and maintenance schedule.
33		WLUSA # FT-0063

^{*} One pre-installed. One required for NSF-53 and NSF P231 Certification.

Replacement parts can be obtained from *Waterlogic* or an *Authorized Waterlogic Dealer*. See Parts Layouts, Drawings, and Parts Lists for additional repair parts.

Hot Tank Service

Hot Tanks (with controls) must be replaced at least every 5 years. Descaling hot tank may be required on a regular basis depending upon filtration and local water conditions. See Service Section.

NOTE:

At the **end of this product's life**, ensure that it is disposed of in an environmentally friendly manner which is fully compliant with all Federal/State/Local Requirements and Guidelines.



HOT TANK DESCALING INSTRUCTIONS

The hot tank requires removal of mineral deposits (descaling) on a regular basis. Typically descaling should take place every 6 to 12 months to preserve the long-term health of your unit.

Use non-toxic cleaner such as ScaleKleen, DEZCAL, 20% Citric Acid Solution, or Undiluted Vinegar Solution to remove mineral deposits as directed by the manufacturer depending upon filtration and local water conditions.

Descaling is an important process that removes calcium deposits, or scale, that can build up inside a tank over time. Calcium and scale is non-toxic but left unattended will hinder your unit's performance.

<u>WARNING!</u> PERSONAL PROTECTIVE EQUIPMENT REQUIRED. Always ensure proper ventilation and use rubber or nitrile gloves and eye protection when using chemicals. Refer to Material Safety Data Sheet for specific requirements of each product.

CAUTION! STAINLESS STEEL TANK DESCALING.

The hot tank is made from stainless steel. Ensure descaling solution is compatible with stainless and always flush the unit completely. Dispose in an environmentally safe manner.

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5 gallon container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- Sanitizing Cartridge
- Food Coloring
- 1. Put descaler per directions and 3 drops of food coloring into the descaling cartridge.
- 2. Connect descaling cartridge to the inlet water supply and connect to inlet bulkhead fitting on the back of the unit. Turn on Water Supply.
- 3. Select Hot Water and depress the Main Dispensing Button on the Front Control Panel until descaling solution (colored water) comes out of the faucet. Container and drain basic will be required to catch water from the faucet.
- 4. Turn off water supply and remove sanitizing cartridge from inlet water supply. Reconnect water supply to inlet fitting.



- 5. Allow descaling solution to remain in the Hot Tank for 15 minutes (length of time may vary depending on water conditions).
- 6. Place a pitcher, catch basin or other container under the faucet of the WL350.
- 7. Flush the Hot Tank until water runs clear.
- 8. Once clear Water dispenses from the faucet the Hot Tank has been descaled. Always ensure unit is performing to the customer's satisfaction.
 - <u>WARNING!</u> HOT WATER HAZARD. Unit Produces Very Hot Water and Steam. Always use insulated and chemically compatible containers and let unit cool down before draining the hot tank to avoid injury.
 - <u>CAUTION!</u> MUST REPLACE HOT TANK 5 YEARS. The hot tank and its controls must be replaced a minimum of every five years to ensure efficient and dependable operation.
 - <u>WARNING!</u> REINSTALL ALL PANELS AND COVERS. Always reinstall all panels, protective covers, and fasteners after servicing equipment. Failure to do so could result in severe personal injury and will void the certifications and warranty of the equipment.



RESETTING THE OVERLOAD OR HIGH LIMIT SAFETY

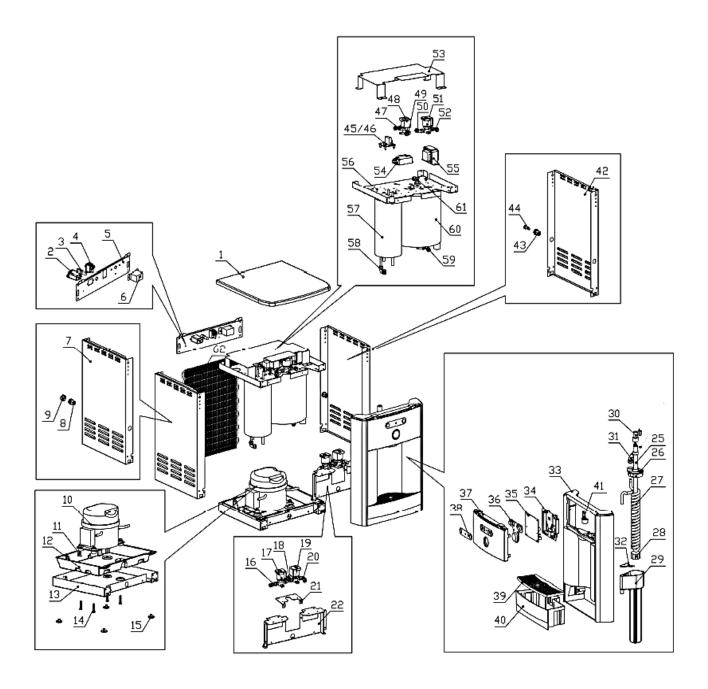
1.	Turn off Red Compressor / Heater Switch on rear of unit. <i>O=OFF</i>
2.	Unplug the Power Cord from rear of unit.
3.	Remove the Lower Front Panel of unit by removing the Phillips head screws underneath the lower front panel.
4.	Locate the protective metal box on the rear of the hot tank. As you look through the condenser coils on the rear of the unit, you will see the hot tank located on the right hand side.
5.	From the front of the Water Treatment System, reach up behind the hot tank and take hold of the protective metal box covering the thermostat and overload on the hot tank. There are nuts that secure the metal box to the hot tank. However the nuts are loose enough to allow you to remove the metal box. If the nuts on the metal box are too tight, loosen the nuts securing the hot tank to the upper base of the unit and lower the hot tank so you can remove the metal box. For demonstrative purposes, photos below have lowered the hot tank from the unit.



	better trilliking, better with
6.	Press the reset button Hot Tank Reset
7.	Reattach the metal box by depressing the top flap of the metal box so it snaps back into its original position on the hot tank.
8.	Replace the Lower Front Panel on unit using Phillips head screws.
9.	Plug in the Power Cord.
10	Make sure the hot and cold tanks are filled with water BEFORE turning on the Red Compressor / Heater switch.
	Verify the cooler is fully operational before installing it at the customers' site.



WL350 COUNTER TOP DRAWING AND PARTS LIST





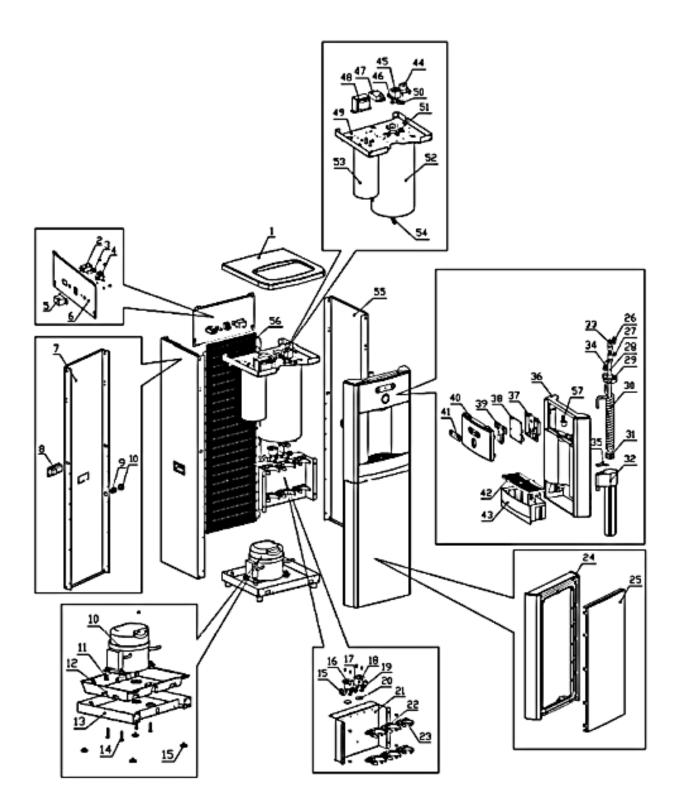
5 ST-8216 Back Panel 12-8061 6 ST-8291 Thermostat and Overload Metal Cover 221°F (105°C) NA 7 ST-8245 Side Panel 12-8062 8 PU-4028 JG Bulkhead Connector Union 1/4° * 1/4° (JG Part # PI1208S) 10-3067 9 PL-1172 Plastic Cap for 1/4° Bulkhead Fitting NA 10 CO-9016 Starter Relay for Compressor 10-3003 10b CO-9016 Starter Relay for Compressor 10-3003 10b CO-9015 Thermal Overload 10-5018 11 ST-8207-CN Leak Containment Tray Clip 12-3180 12 PL-1294 Leak Containment Tray 12-3155 13 ST-8151 Bottom Base Panel 12-3170 14 NA M6*30 Bolt NA 15 PL-1251-CN Unit Rubber Feet 12-3150 16 PU-4008 JG Equal Elbow Connector X" (JG Part # PI0308S) x 2 NA 17 PU-4016 Solenoid Valve DC24V 500mm 12-1500 18 PU-4011	No	Part No	Description	WLUSA Part No
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17 PU-4016 Solenoid Valve DC24V 500mm 12-1500 18 PU-4011 JG Equal Tee Connector 1/4" (JG Part # Pl0208S) NA 19 PU-4016 Solenoid Valve DC24V 500mm 12-1500 20 PU-4008 JG Equal Elbow Connector ¼" (JG Part # Pl0308S) NA 21 ST-8297 Firewall Solenoid Valve Fixing Bracket NA 22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	15	PL-1251-CN	Unit Rubber Feet	12-3150
18 PU-4011 JG Equal Tee Connector 1/4" (JG Part # PI0208S) NA 19 PU-4016 Solenoid Valve DC24V 500mm 12-1500 20 PU-4008 JG Equal Elbow Connector ½" (JG Part # PI0308S) NA 21 ST-8297 Firewall Solenoid Valve Fixing Bracket NA 22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	16	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S) x 2	NA
19 PU-4016 Solenoid Valve DC24V 500mm 12-1500 20 PU-4008 JG Equal Elbow Connector ¼" (JG Part # Pl0308S) NA 21 ST-8297 Firewall Solenoid Valve Fixing Bracket NA 22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	17	PU-4016	Solenoid Valve DC24V 500mm	12-1500
20 PU-4008 JG Equal Elbow Connector ¼" (JG Part # Pl0308S) NA 21 ST-8297 Firewall Solenoid Valve Fixing Bracket NA 22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	18	PU-4011	JG Equal Tee Connector 1/4" (JG Part # PI0208S)	NA
21 ST-8297 Firewall Solenoid Valve Fixing Bracket NA 22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	19	PU-4016	Solenoid Valve DC24V 500mm	12-1500
22 ST-8152-A Filter Fixing Panel 12-3175 23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	20	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
23 CT-2089 UV Sensor - UVC Sensor CT-2089 25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	21	ST-8297	Firewall Solenoid Valve Fixing Bracket	NA
25 CT-2085-A 15W UV Lamp with 80mm wire + connector 12-8310 26 CT-2010 CDS Fixing Rubber (Silicon) 10-3095 27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	22	ST-8152-A	Filter Fixing Panel	12-3175
CT-2010 CDS Fixing Rubber (Silicon) 10-3095 THU-0007 Quartz Spiral for Firewall 12-8305 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 THU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 THU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 THU-0008-A FIREWALL Stainless Assembly (No Internal Components) 12-8330 THU-0010 UVC Sensor Fixing Metal Bracket Back 12-8385 THU-0011 UV Sensor Fixing Metal Bracket Back 12-8300	23	CT-2089	UV Sensor - UVC Sensor	CT-2089
27 FU-0007 Quartz Spiral for Firewall 12-8305 28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	25	CT-2085-A	15W UV Lamp with 80mm wire + connector	12-8310
28 CT-2077 Spiral Quartz Spacer to Outer Quartz Sleeve 12-8325 29 FU-0008-A Firewall Stainless Assembly (No Internal Components) 12-8330 29a FU-0010 UVC Sensor Fixing Metal Bracket Front (with Tube) 12-8380 29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	26	CT-2010	CDS Fixing Rubber (Silicon)	10-3095
29FU-0008-AFirewall Stainless Assembly (No Internal Components)12-833029aFU-0010UVC Sensor Fixing Metal Bracket Front (with Tube)12-838029bFU-0011UV Sensor Fixing Metal Bracket Back12-838529cAK-0063UV Lamp Sensor Wire12-8300	27	FU-0007	Quartz Spiral for Firewall	12-8305
29aFU-0010UVC Sensor Fixing Metal Bracket Front (with Tube)12-838029bFU-0011UV Sensor Fixing Metal Bracket Back12-838529cAK-0063UV Lamp Sensor Wire12-8300	28	CT-2077	Spiral Quartz Spacer to Outer Quartz Sleeve	12-8325
29b FU-0011 UV Sensor Fixing Metal Bracket Back 12-8385 29c AK-0063 UV Lamp Sensor Wire 12-8300	29	FU-0008-A	Firewall Stainless Assembly (No Internal Components)	12-8330
29c AK-0063 UV Lamp Sensor Wire 12-8300	29a	FU-0010	UVC Sensor Fixing Metal Bracket Front (with Tube)	12-8380
	29b	FU-0011	UV Sensor Fixing Metal Bracket Back	12-8385
30 EL-5141-A Firewall UV Female Wire and Connector 12-8335	29c	AK-0063	UV Lamp Sensor Wire	12-8300
	30	EL-5141-A	Firewall UV Female Wire and Connector	12-8335



		Better ti	ninking. Better water.
31	PU-4137	JG 3/8" x ¼" Reducing Fitting (JG Part # PI211208S)	NA
32	FU-0008-A	Firewall Faucet Assembly	12-8330
33	PU-1146-A	Front Panel for Drip Tray Insert	12-8345
34	PL-1357	PCB Cover	12-8350
35	EN-6126-A	PCB Display	12-8355
36	PL-1153	Silicon Button Key Mat with BioCote®	12-8056
37	PL-1359	Front Upper Insert Panel	12-8360
38	LP-7084	Button Label	12-8057
39	PL-1152	Drip Tray Grill with BioCote®	12-8150
40	PL-1156	Drip Tray Body Charcoal <i>Waterlogic</i> Logo with BioCote®	12-8055
41	PL-1351	Hot Water Faucet	12-8370
42	ST-8245	Side Panel	12-8062
43	PU-4028	JG Bulkhead Connector Union 1/4" * 1/4"(JG Part # PI1208S)	10-3067
44	PU-4086	JG ¼" Stopper (JG Part # PI0808S)	NA
45	EN-6059	PCB Stand Off Support	10-3017
46	EN-6127	UV Relay PCB	12-8365
47	PU-4011	JG Equal Tee Connector 1/4" (JG Part # PI0208S)	NA
48	PU-4017-B	Solenoid Valve DC24V 500mm	PU-4017-B
49	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
50	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
51	PU-4017-B	Solenoid Valve DC24V 500mm	PU-4017-B
52	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
53	ST-0049-L00-00	Metal Cover	NA
54	EL-5140-A2	UV 15W 120V EN/ 60Hz Electronic Ballast	12-8315
55	EL-5147	Transformer 1.6A / 120V	12-8375
56	ST-8150	Upper Base	12-3165
57	P-HT-3041	Hot Tank 187°F (87°C)	12-5615
58	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
59	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
60	CT-2060	Cold Tank Assembly	12-3110
61	PU-4008	JG Equal Elbow Connector ¼" (JG Part # PI0308S)	NA
62	CO-9031	Wire Condenser	12-3100
Not Shown	EN-6131	Sleep Mode PCB	20-0075



WL350 TOWER LAYOUT DRAWING AND PARTS LIST





WL350 TOWER LAYOUT DRAWING AND PARTS LIST

No	Part No	Description	WLUSA Part No
1	PL-1150	Top Cover	12-8054
2	EL-5016	Socket with EMI Filter	10-4013
3	EL-5053	Fuse Holder and Fuse 100V / 15A	EL-5053
4	EL-5004	Red Compressor / Heater Switch	10-3008
5	CT-2070	Cold Tank Thermostat	19-1069
6	ST-8135-A	Back Panel	12-5673
7	ST-8157	Side Panel	12-8000
8	PL-1123	Plastic Silver Handle	12-8058
9	PU-4028	JG Bulkhead Connector Union 1/4" * 1/4"(PI1208S)	10-3067
10	PL-1172	Plastic Cap for 1/4" Bulkhead Fitting	NA
11	CO-9001-A	Compressor (R134a 1/8HP) 110V/60Hz	10-2200
11a	CO-9016	Starter Relay for Compressor	10-3003
11b	CO-9015	Thermal Overload	10-5018
Not Shown	PL-1294	Leak Containment Tray	12-3155
12	ST-8137	Lower Steel Shelf	12-8004
13	NA	Bolt M6 * 30	NA
14	ST-8167-CN	Unit Control Rubber Feet	11-2065
15	PU-4137	JG 3/8" x 1/4" Reducing Fitting(PI211208S)	NA
16	PU-4016	Solenoid Valve DC24V 1000mm	12-1500
17	PU-4011	JG Equal Tee Connector 1/4" (PI0208S)	NA
18	PU-4016	Solenoid Valve DC24V 1000mm	12-1500
19	PU-4008	JG Equal Elbow Connector 1/4" (PI0308S)	NA
20	CU-0001	Cushion for Solenoid Valve	CU-0001
21	ST-8138	Filter Bracket	12-8005
22	PU-4024	Filter Clip 2.5"	10-3099
23	PU-4025	Filter Clip 2" for Inline Filter	10-3098
24	PL-1148	Front Down Panel	12-8052
25	PL-1149	Front Down Insert Panel	12-8053
26	CT-2010	CDS Fixing Rubber (Silicon)	10-3095
27	FU-0007	Quartz Spiral for Firewall	12-8305



28	CT-2085-A	15W UV Lamp	12-8310
29	CT-2088	UV Lamp Fixing Rubber	12-8320
30	FU-0007-A	Quartz Spiral for Firewall	12-8080
31	CT-2077	Spiral Quartz Spacer to Outer Quartz Sleeve	12-8325
32	FU-0008-A	Firewall Stainless Assembly	12-8330
32A	FU-0010	UVC Sensor Fixing Metal Bracket Front (with tube)	12-8380
32B	FU-0011	UVC Sensor Fixing Metal Bracket Back	12-8385
32C	AK-0063	UV Lamp Sensor Wire	12-8300
33	EL-5141-A	Firewall UV Female Wire and Connector	12-8335
34	PU-4137	JG 3/8" x 1/4" Reducing Fitting(PI211208S)	NA
35	FU-0008-A	Firewall Stainless Assembly	12-8330
36	PL-1146-A	Front Upper Panel for Drip Tray Insert	12-8345
37	PL-1357	PCB Cover	12-8350
38	EN-6126-A	PCB Display	12-8355
39	PL-1153	Button Key Mat Silicon with BioCote®	12-8056
40	PL-1359	Front Upper Insert Panel	12-8360
41	LP-7084	Button Label	12-8057
42	PL-1152	Drip Tray Grill with BioCote®	12-8150
43	PL-1156	Drip Tray Body Assembly Charcoal with <i>Waterlogic</i> Logo with BioCote®	12-8055
44	EN-6059	Plastic PCB Support	10-3017
44	EN-6127	Firewall UV Relay PCB	12-8365
45	PU-4016	Solenoid Valve DC24V 1000mm	12-1500
46	PU-4008	JG Equal Elbow Connector 1/4" (PI0308S)	NA
47	EL-5140-A2	Electronic Ballast UV 15 W 120V/60Hz	12-8315
48	EL-5003-A	Power Transformer 120V	12-3117
49	ST-8136	Upper Front Shelf	12-8003
50	PU-4008	JG Equal Elbow Connector 1/4" (PI0308S)	NA
51	PU-4010	JG Equal Straight Connector 1/4"(PI0408S)	NA
52	CT-2017	Cold Tank Assembly – 4 Liters	12-1100
53	P-HT-3041	Hot Tank 1.5 Liters 100V / 500W 187°F (87°C)	12-5615
54	PU-4008	JG Equal Elbow Connector 1/4" (PI0308S)	NA
55	ST-8157	Side Panel	12-8000
56	CO-9027	Wire Condenser	12-8102
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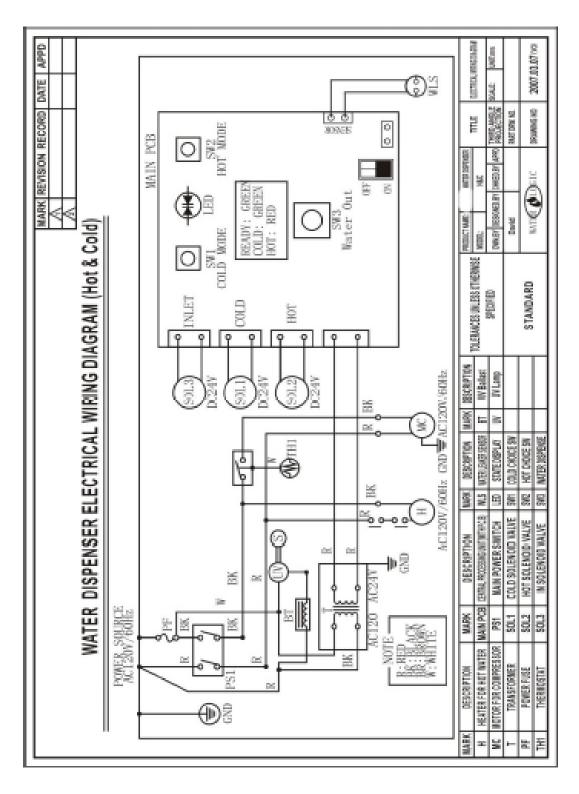


57	PL-1351	Hot Water Faucet	12-8370
Not Shown	EN-6131	Sleep Mode / Heater Printed Circuit Board (PCB)	20-0075
Not Shown	ST-8207-CN	Leak Containment Tray Clip (Sensor 0.5mm)	12-3180



WL350 COUNTER TOP ELECTRICAL DIAGRAM

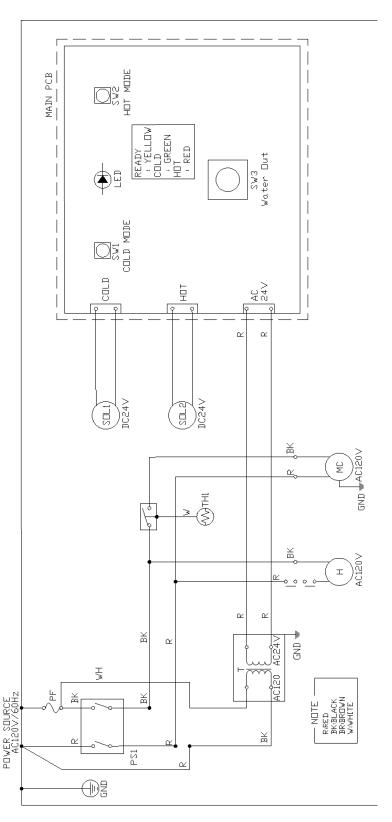
<u>DANGER!</u> HIGH VOLTAGE ELECTRICAL HAZARD. PCB (Printed Circuit Board) contains High Voltage. Only trained and qualified technicians should attempt live testing.





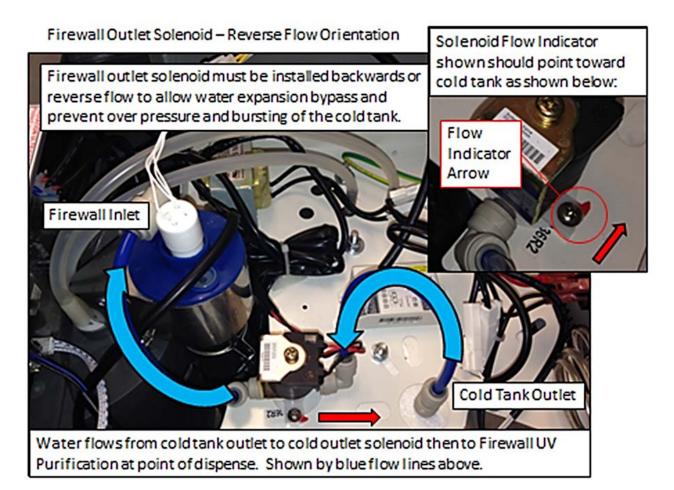
WL350 TOWER ELECTRICAL DIAGRAM

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





FIREWWALL OUTLET SOLENOID - REVERSE FLOW ORIENTATION





FAULT CODES

FAULT CODE: Continuous Red Flashing Light and Continuous Audible Alarms indicate that the Leak Detector has sensed water in the leak tray and will shut down inlet solenoid.

Possible Reason	Solution
Water from overfilled drip tray spilled into unit leak detecting tray.	Empty Drip Tray and clear leak detection tray to ensure inside of unit is dry.
Leak in <i>WL350</i> Counter Top	Water is in the bottom of the unit. Clear leak detection tray to ensure inside of unit is dry. Check for source of leak and fix as necessary.





FAULT CODES

FAULT CODE: Green Flashing Light and 15 second Audible Alarms –Indicates the Firewall UV system is not detecting adequate dose of UV to ensure safe water.

*The Cold Solenoid will shut down and no cold water will dispense. Hot water will still dispense.

Possible Reason	Solution
Firewall UV System does not have adequate dose of UV.	 Check UV System If Ballast Indication Light is Green – the system should be operational. Ensure UV lamp is on. Replace Lamp. If lamp is replaced and problem persists, replace UV Sensor. If Ballast Indication Light is Red, change UV Lamp. If Ballast Indication Light is not lit – check power to Ballast. If power is going to Ballast – replace Ballast.
Remo	ove Cover to locate Ballast
Power to Ballast CHARMSSTONE Germicidal Namp Electronic Ballast EP15A500A-01 120V 60Hz Max. Current 0.33A Ballast Indication Light	
N = Black Wire L = White Wire (Live)	1 = White Wire 2 = White Wire 3 = Yellow Wire 4 = Yellow Wire





FAULT CODES

FAULT CODE: No LED Light

Possible Reason	Solution
Power Problem	Check for power disruption.
LED Light is out	Check that the PCB LED is operational – replace PCB as necessary.





Irregular / Intermittent Dispensing

Possible Reason	Solution
	Check water pressure at the inlet bulkhead with a water pressure gauge.
Too much water pressure. Recommend 40 to 60 psi for WL350 to operate properly.	Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click".
	Adjust water pressure to 40-60 psi.
Dispensing button is broken on PCB	Check PCB for loose or damaged button. Replace PCB as necessary.



No Water is Dispensing from One Side - Cold or Hot

Possible Reason	Solution
	Check water pressure at the inlet bulkhead with a water pressure gauge.
Too much water pressure. Recommend 40 to 60 psi for WL350 to operate properly.	Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click".
	Adjust water pressure to 40-60 psi.
РСВ	Switch the hot and cold wires on PCB (red and blue connections). If water now dispenses from the opposite side, this is an
	indication that there is a PCB problem. Replace PCB
Solenoid	If both the Water Pressure and PCB have been ruled out, then it is the Solenoid.
	Replace Solenoid.
See Green Flashing Light Fault Code Section of this Manual	Indicates the Firewall UV system is not detecting adequate dose of UV to ensure safe water.



TROUBLESHOOTING - Hot Water is not Hot (187 $^{\circ}$ +/- 5 $^{\circ}$ F)

NOTE: The *WL350* does NOT have Sleep or Power Saving Mode and the hot water should be a minimum of 187° F under normal operating conditions.

The Hot temperature set point is 187° and is controlled by a thermostat on the side of the tank.

There is a resettable overload or high limit safety above the thermostat on the side of the tank that will trip to prevent damage to the unit if the tank is dry heated (turned on without water in it).

The *WL350* does NOT have Extra Hot capability and the maximum hot temperature is 193°F.

It typically takes 10 minutes for the 500W to heat the 1.6 Liter of room temperature (ambient) water to the $187^{\circ}F$ set point.

Possible Reason	Solution
Is unit in sleep mode?	If no water has been dispensed for 3 or more hours, unit goes into sleep mode. Dispense hot water, wait 5 minutes, check temperature.
	If unit still does not heat proceed to "No power to heater elements" below.
	If unit does heat but you would like to disable sleep mode instructions are included in this manual.
No nower to heater elements	Check that the Red Heater and Compressor switch is on.
No power to heater elements	Turn Red Heater and Compressor Switch on. I = ON
Loose or improperly	Visually inspect wire leads gong to the hot tank; confirm proper connections to the heating elements.
connected wire(s) to the	Hot tank life is 3-5 years, depending on usage.
heating element / hot tank.	*Typically dealers swap out the hot tank at site, take back to the shop to repair.
Overload Tripped Overload is a safety feature to ensure the tank does not overheat.	Overload will "click" when pushed. The overload is automatically reset when pressed.
	*See Overload Reset Instructions Included in Manual
Thermostat or overload "open" on Hot Tank	Turn Power off. Check OHM's resistance across terminals on each Thermostat and Overload separately.
	Good components will indicate a closed circuit or zero OHM's on the meter.
	Replace components as necessary.
	Turn Power off; Drain hot tank; Use multi-meter to check heater
Heating Coil not Working	element for approximately 26 OHM's resistance.
	Hot tank must be empty if you are checking for continuity.
	Replace Hot Tank as necessary.



Hot Water or Steam Coming out of both the Faucet and Vent Hole

Possible Reason	Solution
Improper tubing attachment from the hot tank to faucet or vice versa.	Check that the tubing is connected from tank outlets to correct faucet attachments. Connect tubing to outlets as needed.



Hot Water Drip out of Faucet

Possible Reason	Solution
Small Outlet Vent Hole susceptible to scale build up.	Descale Tank. Descale Instructions are available as a separate section of this Manual and see the "How to Descale your Hot Tank" instructional video on the Partner Area of the new Waterlogic.com website for more information.
	All Waterlogic Hot Tanks have a built in Vent or Expansion Chamber in the top of the tank except for WL270 (GF) units.
Vent Outlet Hot Tank Outlet (to Faucet)	The Vent Chamber allows for expansion of the water when it is heated.
Outlet Vent Hole Vent (expansion) Chamber	The chambers are separated by a welded-in tank baffle.
Tank Baffle	Water always flows into the bottom of the tank and out the top to the faucet.
Outlet Restrictor	The hot tank outlet tube has a restrictor in its base. This ensures the reservoir is always full by allowing more water in than out.
Hot Tank Reservoir	There is a small hole in the side of the tank outlet tube that allows air and water to pass into the vent chamber as it is heated.
	Water in the vent chamber is suctioned back through the outlet tube vent hole when water is dispensed.
Heater Element	Expansion of water as it is heated in the reservoir will push the water out the faucet when the outlet tube vent hole becomes plugged with debris or scale.
	The small Outlet Vent Hole is susceptible to scale build up and is a key indicator that descaling is required.
Hot Tank Inlet	It is critical to descale the hot tank through the vent line and outlet line on a regular basis to prevent this problem.
	Descaling through the inlet and/or outlet lines only will not clean the vent chamber and outlet vent hole properly.



<u>Hot Water Intermittently Forced Out Through the Faucet, or a Dual Stream Out of the Faucet</u>

Possible Reason	Solution
Mineral deposits on the expansion slot inside the hot tank vent chamber which blocks the normal path of water to expand.	Descale Hot Tank – See Descaling Section of this Manual.



Hot Water Coming out of Faucet Vent Hole

Possible Reason	Solution
Improper tubing attachment from the tank to faucet or vice versa.	Verify tubing is connected properly from tank outlets to correct faucet attachments.
Hot Tank outlet hole is scaled over.	Inspect and descale or replace hot tank.
Expansion chamber is not sealed properly.	Replace the Hot Tank.



Restricted Flow of Hot Water

Possible Reason	Solution
Partially closed water supply valve to the unit.	Open water supply valve.
Hot Tank outlet hole is scaled over.	Remove outlet tube from hot tank to faucet. Add descaler to hot tank.
Tubing is creased or has a "kink" in it.	Inspect and replace tubing as necessary.
Faucet nipple screen mesh has obstruction(s)	Unscrew faucet nipple from faucet and remove any obstruction(s) from screen mesh.
Exhausted Filter	Replace the Filter
Solenoid connection to the Display PCB	Turn power off; unplug the unit and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.
Solenoid Valve is	Inspect valve components for proper function. Replace as
Malfunctioning	necessary.



Cold Water is not Cold (41° +/- 5° F)

Possible Reason	Solution
No power or refrigeration elements	Check that the Red Heater and Compressor switch is on. Turn Red Heater and Compressor Switch on. I = ON
Tank has run out of cold water.	Wait for cold tank to chill water to temperature prior to dispensing more cold water.
Cold tank capacity is 4 liters for	dispensing more cold water.
Tower and 2 liters for Counter Top.	A greater capacity of <i>Waterlogic</i> Water Systems is available.
Cold Water Thermostat	Check continuity of thermostat with multimeter. Replace thermostat as required.
Refrigerant has run out	Run compressor for at least ten minutes. If condenser is not warm then refill the refrigerant.
Compressor problem	If compressor is not running, repair or replacement is needed.

Note: The Waterlogic Firewall reduces 7-log of waterborne bacteria, 5-log of viruses, and 4-log of parasites potentially found in the drinking water. A small amount (about 2-ounces) of water remains in the Firewall device after dispensing. This water does not remain permanently chilled, and will eventually become room temperature after several hours. To ensure the next glass of water dispensed is adequately chilled, Waterlogic recommends dispensing one 5-ounce or more cup of water after long periods of inactivity. The first 2-ounces will be near room temperature, and the remaining 3+ ounces will be very cold. The mixture of these two temperatures will provide for an adequately refreshing, cold drink.



Steady Drip Out of Faucet

Possible Reason Solution			
Inlet Pressure too High	Check with Pressure Regulator.		
Debris in Solenoid	Inspect Solenoid for debris and clean out as needed.		



Dispenses Hot and Cold Water at the same time

Possible Reason	Solution			
Hot or Cold solenoid is stuck open.	Remove top cover. Check Hot Solenoid: Dispense cold water and visually inspect tubing for water flow from both tanks. Check Cold Solenoid: Disconnect elbow from outlet of cold			
	solenoid. Select hot water and dispense (quickly releasing dispensing button to avoid much water coming out of cold solenoid. Replace solenoid as necessary.			



No Cold Water Available

Possible Reason	Solution			
Closed Water Supply Valve	Open the Water Supply Valve			
Cold Water Solenoid Valve malfunction	Inspect the valve components for proper functionality.			
Red Heater and Compressor Switch on unit is off.	Turn Red Heater and Compressor Switch on. $I = ON$			
Loose connection(s) on the Display PCB	Turn power off; unplug the unit and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.			
Exhausted Filter	Replace filters as needed.			



Water is not being heated or chilled

Possible Reason	Solution		
Red Heater and Compressor Switch on unit is off.	Turn Red Heater and Compressor Switch on. I = ON HEATER & COMPONION PROPERTY OF THE PROPERTY		



No Cold or Hot Water will dispense from unit.

Possible Reason	Solution				
Closed water supply valve	Open the water supply valve.				
The unit is not properly plugged into electrical outlet	Check electrical outlet connection, or for blown circuit breaker.				
Red Heater and Compressor Switch button on unit is in the off position	Turn Red Heater and Compressor Switch on. I = ON HEATER & COMP ONOTE ONOTE HEATER & COMP				
15 Amp Fuse Blown	Replace the 15 Amp Fuse as needed.				
Water is present in the bottom tray, causing the leak detection to trigger.	Remove the top cover and front panel. Tip the unit slightly to drain, dry bottom tray completely.				
Hot and Cold Solenoid connections into the Displace PCB are loose.	Turn power off; unplug the unit and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.				
Exhausted Filter	Replace filters as needed.				



Cold Water Dispenses from Faucet and Vent Outlet Simultaneously

Possible Reason	Solution			
Improper tubing attachment from the tank to faucet or vice versa	Verify tubing is connected properly from tank outlets to correct faucet attachments.			
Scale has formed inside cold tank outlet tube.	Remove cold water outlet tube from tank to faucet. Pour some scale remover into cold tank.			
Expansion chamber in Cold Tank is not sealed properly.	Replace Cold Tank.			



Compressor runs but does not chill

Possible Reason	Solution			
Condenser is dirty	Clean the condensing coil of any obstructions or dust.			
Reduction of airflow into unit.	Make sure unit is not under minimum ventilation requirements (2 to 4 inches).			
Compressor is running very hot.	Low or lost refrigerant. Refrigerant recharge required.			



Compressor is Not Running

Possible Reason	Solution			
Red Compressor / Heater Switch button on unit is in the off position	Turn Red Compressor / Heater switch on. I = ON HEATER & COMP ON/OFF			
Compressor Starting Circuit	Turn red heater and compressor switch off. <i>O</i> = <i>OFF</i> . Remove the compressor cap on side of the compressor;			
	Disconnect the black and red terminal connectors;			
	Inspect the starter and overload relay for any defects.			
	Replace components(s) as needed.			
	Turn Red Compressor / Heater switch on $I = O$ and retest compressor operation.			



Small Amount of Water Periodically Dispenses from Faucet Automatically

Possible Reason	Solution			
Cold or Hot Water solenoid valve malfunction	Inspect valve components for proper function. Replace as necessary.			
Obstruction in solenoid housing is preventing proper sealing of component.	Pre-determine whether water being dispensed is hot / cold. Isolate the water supply; push the DISPENSE button to release the line pressure, and remove the coil affixed to the solenoid stem.			
	Remove the stem from the solenoid housing and allow water from the tank to flush out the contaminant(s).			



Dispense Buttons Stick

Possible Reason	Solution			
Dirt or Foreign material is	Inspect the push buttons and clean surrounding area.			
filling the gap around the	Inspect faucet assembly inside the unit and clean as			
push-buttons.	necessary.			



Run On

"Run On" or "Carry On" is present in all Waterlogic pressure fed units without outlet solenoids.

"Run On" is defined as the amount of water that continues to dispense out of the faucet after releasing the dispense button.

Run On exists because the tanks pressurize as water is being dispensed. Every Waterlogic tank has an outlet restrictor to ensure the tanks remain full of water and water is controlled as it is released to the faucet. The inlet solenoid controls flow into the tanks. The tanks will "depressurize" once the dispense button is released the inlet solenoid closes. A small amount of water will "Run On" through the faucet as the tank depressurizes to atmospheric conditions.

Typical "Run On" is 2-3 seconds.

"Run On" can be reduced by installing a pressure limiting device.

The amount of inlet or supply pressure directly impacts the amount of "Run On" as quantified below.

WLCP Lab Testing of Rn On 7-31-2013				
Pressure	Pressure	Time	Flow Rate	Run On
Static PSI	Dynamic PSI	4 Liters	I/min	Seconds
68	40	61	2.9508197	3
50	30	72	2.5	2.5
32	20	92	1.956217	2

Pressure measured at inlet line to unit. Static with unit closed. Dynamic with unit dispensing cold water.

No filters were installed in unit.



WATERLOGIC MANUFACTURED WATER TREATMENT SYSTEM LIMITED WARRANTY UNITED STATES AND CANADA ONLY

Waterlogic water treatment systems are guaranteed to the original purchaser to be free of defects in materials and workmanship for a period of three (3) years from the date of purchase, but in no event longer than forty-eight (48) months from the date of manufacture. Waterlogic Commercial Products, LLC ("Waterlogic") based in the U.S.A. and its affiliated companies are not liable for any cost of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim.

This warranty does not cover damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized or improper alteration or repair, damage caused by or resulting from shipping or accident, damage caused by hot water, freezing, flood, fire, or acts of God. The effects from chlorine corrosion, scaling and normal wear are specifically excluded from this warranty. This warranty does not cover products used outside the countries where the unit was purchased, and does not cover products that were not installed in accordance with Waterlogic printed installation and operating instructions obtained in training or from www.waterlogic.us. Failure to follow all instructions for operation and maintenance voids the warranty. This warranty is not transferable.

To obtain warranty repairs or replacement, you must obtain a Return Authorization from Waterlogic. To obtain a Return Authorization, you must submit a Return Authorization form with supporting documentation to Waterlogic for evaluation. The form is available at www.waterlogic.us. Supporting documentation must include, but is not limited to; proof of purchase, installation date, failure date, and supporting installation and maintenance data. After you submit a Return Authorization form and supporting documentation, Waterlogic will determine whether a reasonably apparent defect in materials or workmanship covered by this limited warranty exists. If Waterlogic determines the claimed defect is covered by this warranty, Waterlogic will, at its sole discretion, determine whether to correct the defect or replace the unit, free of charge to you. If Waterlogic determines that the unit should be returned for warranty service, Waterlogic will approve of return in writing and will issue a Return Authorization which you must obtain prior to shipping the product. You are responsible for the cost of freight in to Waterlogic.

Waterlogic and its affiliated companies hereby limit the duration of any and all implied warranties to a maximum period of three (3) years from the date of purchase including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Consequential and incidental damages are not recoverable under this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

New Warranty Policy issued by Waterlogic Commercial Products LLC, USA - January 10, 2014

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