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WL2FLT MANUAL

Congratulations on your choice of the *Waterlogic WL2FLT Water Treatment System*. The *WL2FLT Water Treatment System* model dispenses cold and hot water. Every *WL2FLT Water Treatment System* includes:



High Performance Multi-Stage Filtration



Bio-Cote Anti-Microbial Protection



Firewall™ Advanced Purification

The *Waterlogic WL2FLT Water Treatment System* provides exceptional quality and great tasting water with every use.

INTRODUCTION

Carefully read and follow all instructions to ensure proper and efficient operation of your **WL2FLT Water Treatment Systems**. 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.



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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:



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

<u> WARNING!</u>

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

AUTION!

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

SAFETY PRECAUTIONS

Basic safety precautions should be followed, including the following:

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. Always read the entire operating instructions before using the appliance and save these instructions for future use.

▲ DANGER! This product can cause death or severe injury if incorrectly operated, installed or maintained. The installation, maintenance, sanitizing and any repair must be performed by qualified persons trained by Waterlogic International or their approved distributors only. Do not remove any panel or cover to protect against electrical shock and exposure to UV radiation.

▲ DANGER! ELECTRICAL SHOCK HAZARD. Always use a dedicated and properly grounded outlet. Unit should be protected by ground-fault circuit interrupter (GFCI) or residual current device (RCD) having a rated residual operating current not exceeding 30mA. Use only Waterlogic supplied power cord. Never use extension cords or power strips to connect unit. Do not use if the power supply cord is damaged. Always unplug from power supply prior to servicing.

▲ WARNING! AUTHORIZED USE ONLY. This appliance 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. This appliance can't be used by children and persons with reduced physical, sensory or mental capabilities or lack of experience.

▲ WARNING! UV-C EMITTER (UV LAMP). This appliance contains a UV-C emitter (UV Lamp). UV-C radiation may, even in little doses, cause harm to the eyes and skin. Unintended use or damage to the housing may result in the escape of dangerous UV-C radiation. Never operate the UV-C emitter if damaged or removed from enclosure. Do not touch or look directly into the faucet.



WARNING! DO NOT OPERATE IF DAMAGED. Unplug and isolate water supply if abnormal conditions exist. Contact Waterlogic or authorized dealer for repair, service, and installation to avoid hazards.

▲ WARNING! HOT WATER. Unit produces Hot Water in excess of 80°C (175°F). Water above 52°C (125°F) can cause severe burns or scalding. Keep unauthorized people and children away from the unit to avoid accidental dispensing of hot water.

WARNING! CONNECT TO POTABLE WATER SUPPLY. This system is 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.

WARNING! TIP HAZARD. Dispenser could tip or fall causing serious injury. Always install unit on a firm, flat, and level surface and secure unit to cabinet, wall, or floor if needed. Never place heavy items on top of unit and never climb, stand, or hang on unit or storage cabinet to prevent injury and damage.

WARNING! UNIT IS HEAVY. TWO PERSON LIFT REQUIRED. Transport unit empty and always use material handling equipment or two people with proper lifting technique to reduce injury risk.

WARNING! STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.
The unit must be completely drained before storing to avoid stagnation and reduce
microbiological contamination (potential bacterial growth). Always sanitize before use to
eliminate any potential microbiological contaminates.

▲ CAUTION! INDOOR USE ONLY. Intended for Household Use. 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. Input or feed pressure must be 40 psi to 60 psi. Be aware of any 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 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.

Contact Waterlogic for assistance or help finding an Authorized Service Representative.



WL2FLT FEATURES AND BENEFITS

Cold and Hot Water

Cold and Hot Selections to meet a wide range of customer demands.

High Volume Storage and Water Capacity

Tower Model has 4 liters (1 gallon) of Cold Water Capacity and 1.5 Liters (.40 gallons) of Hot Water.

BioCote®Anti-Microbial Protection

Certain plastic, silicon, and painted surfaces surrounding the dispensing areas and drip try are infused with an exclusive additive called BioCote[®]. BioCote[®] provides an effective barrier against microbes like bacteria and mold, which may cause odors or staining.



Reverse Osmosis Filtration System

WL2FLT Water Treatment Systems come standard with an RO filtration system and bladder tank. This system can be removed if standard filtration is desired.

Large Dispense Area with Recessed Faucet

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

Leak Prevention and Leak Stop

WL2FLT Water Treatment Systems are equipped with an extra solenoid to provide redundant protection and reduce accident potential. It is also equipped with a leak stop device in the drip tray that will shut off the water supply in the event of a leak.

Child Safeguard

WL2FLT Water Treatment Systems 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 turns off the Hot Tank when no Hot Water is dispensed for 3 hours. Touching the Hot Dispense Button turn the Hot Tank back on. The Energy Saving Sleep Mode can be programmed to be disabled.

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.

Pedal-Ready System

The WL2FLT Water Treatment System comes with connections for hands-free operation pedals.



WL2FLT CERTIFICATIONS

Conformance Statement: The WL2FLT has been tested and certified by WQA to NSF/ANSI 42 for the reduction of chlorine, taste, and odor; NSF/ANSI 53 for the reduction of lead, cyst, and asbestos (using replacement filter FT-0063-IL, and FT-0064 replacement element); NSF/ANSI 55-Class A disinfection; NSF P231 for the reduction of cyst, bacteria, and virus; US EPA Guide Standard and Protocol for the reduction of cyst, bacteria, and virus; US EPA Guide Standard and Protocol for the reduction of cyst, bacteria, and virus; US EPA Guide Standard and Protocol for the reduction of cyst, bacteria, and virus; US EPA Guide Standard and Protocol for the reduction of cyst, bacteria, and virus.

WL2FLT Water Treatment System Certifications Include:



NSF/ANSI-55 Class A –Ultraviolet Microbiological Water Treatment Systems

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[™] component has been tested and certified by the Water Quality Association (WQA) to NSF/ANSI-55 Class A – Ultraviolet Microbiological Water Treatment Systems.

This Class A system conforms to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. The system is not intended to convert wastewater or raw sewage to drinking water. The system is intended to be installed on visually clear water. NSF/ANSI 55 defines wastewater to include human and/or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and/or feces (blackwaste), and other waste materials deposited in plumbing fixtures (greywaste).

NSF P231/US EPA Guide Standard and 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, Cyst, and Asbestos 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.

Note: The WL2FLT contains the FT-0063-IL one-micron CBC filter (including FT-0064 filter element) certified to NSF/ANSI 42 for Chlorine, Taste, and Odor Reduction, and NSF/ANSI-53 Lead, Cyst, and Asbestos reduction. This filter must remain installed in the WL2FLT to maintain these certifications.





UL399 – Certified Drinking Water Cooler

Intertek Labs (ETL) Certified the *WL2FLT Water Treatment System* to ANSI/UL 399 Standard for Drinking Water Coolers.



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



Energy Star Certified

The **WL2FLT Water Treatment Systems**, have been tested and certified to the Energy Star, a US Environmental Protection Agency (EPA) program that helps our customers save money and protect our climate through superior energy efficiency.

Waterlogic is certified to ISO 9001:2015 – Quality Management Systems (certified by Intertek). 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.



MODEL/PART DESIGNATIONS

BRAND NAME	DESCRIPTION	MODEL – PART NUMBER
	Waterlogic WL2FLT - Cold and Hot (China)	
	F-2FXFL-FT-HC-TSL111NX-BS-WLU	WL2FLT-FX-HC
WL2FLT Firewall	Serial Number Prefix: LE4H247BS	
WLZFLI FIIEWUII	Waterlogic WL2FLT - Cold and Hot (USA)	
	F-2FZFL-FT-HC-TSL111NX-BS-LIN	WL2FLT-FZ-HC
	Serial Number Prefix: LE?H???BS	

SPECIFICATIONS

ITEM	<u>WL2FLT Tower</u>	
Water Connection	¼" Quick Connect	
Cold Water Temperature	Cold Water Temperature – Factory Set Point 5°C (41°F) Adjustable to 5°- 8°C (41° - 46.4° F)	
Cold Tank Size	Tower – 4 Liters (1 Gallon)	
Hot Water Temperature	85-87°C (185-189°F) Thermistor Control Hot Tank	
Hot Tank Size	1.5 Liters (.40 Gallons)	
Hot Water Manual Reset Overload	105°C (221°F)	
Recommended Incoming Feed Pressure & Flow	Pressure 40-60 psi (275-414 kPa) – Use Pressure Regulator Input Flowrate 2 – 4 Liters per Minute (0.5 – 1.0 gpm)	
Maximum Service Pressure	100 psi (689 kPa) – Use Pressure Regulator when pressure is over 60 psi	
Rated Service Flow Out	1.6 Liters per Minute (0.42 Gallons per Minute) – Firewall™ Purification	
Environmental Temperature	rature 2°- 37°C (35°- 100°F) Do not use Outdoors	
UV Lamp	15 Watts	
Heater	500 W	
Refrigerant Gas	R134a, 38g, 1.34 ounces	
R134a Pressures	High (280 psi), Low (90 psi)	



SHIPPING SPECIFICATIONS

ITEM	<u>WL2FLT</u>
	349mm x 363mm x 1176mm 13.74" x 14.29 x 46.30"
Weight (dry) Unit Only	33.0 kg (72.8 pounds)

ELECTRICAL SPECIFICATIONS

ELECTRICAL SUPPLY	120V/60Hz	15 Amp Service
COMPONENT	POWER (approximate)	AMP DRAW (approximate)
Heater	500	4.2 Amps
Compressor	168	1.4 Amps
UV Lamp System	36	0.3Amps
WL2FLT TOTAL	706	5.9 Amps





OPERATING INSTRUCTIONS



Dispense Button

The above picture shows front LCD display and control panel for the *Waterlogic WL2FLT Water Treatment System.*

*	Cold Water	Press Cold Water Select Button followed by the Dispense Button (within 3 seconds) or; Press Dispense Button (Cold Water is the default water selection).
Ď	Hot Water	Double tap and hold the Hot Water Select Button (Press, release, press and hold).

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 Cold within 3 seconds after dispensing the Hot Water.

NOTE: The indicator light turns Orange when the heater is active and will return to green once the hot set point is reached.



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

Waterlogic Commercials Products LLC 3175 Bass Pro Drive Grapevine, TX 76051 **Tel:** (800) 288-1891 **Website:** waterlogic.us



SERVICE REQUIREMENTS

MARNING! Read and understand the contents of this manual before attempting to service WL2FLT Water Treatment System. Failure to follow the instructions in this manual could result in death, serious personal injury, or severe property damage. Only trained and qualified technicians should attempt to install, maintain, or service Waterlogic Equipment.

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

<u>**DANGER!**</u> HIGH VOLTAGE ELECTRICAL HAZARD. Unplug before inspection and service.

2. *Waterlogic* recommends changing the UV Lamp every 12 months.

▲ WARNING! UV-C EMITTER (UV LAMP). This appliance contains a UV-C emitter (UV Lamp). UV-C radiation may, even in little doses, cause harm to the eyes and skin. Unintended use or damage to the housing may result in the escape of dangerous UV-C radiation. Never operate the UV-C emitter if damaged or removed from enclosure. Do not touch or look directly into the faucet.

<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 Quartz Spiral that surrounds the UV Lamp with a non-abrasive cloth, descaling solution, or ultrasonic bath if needed when changing UV Lamps.

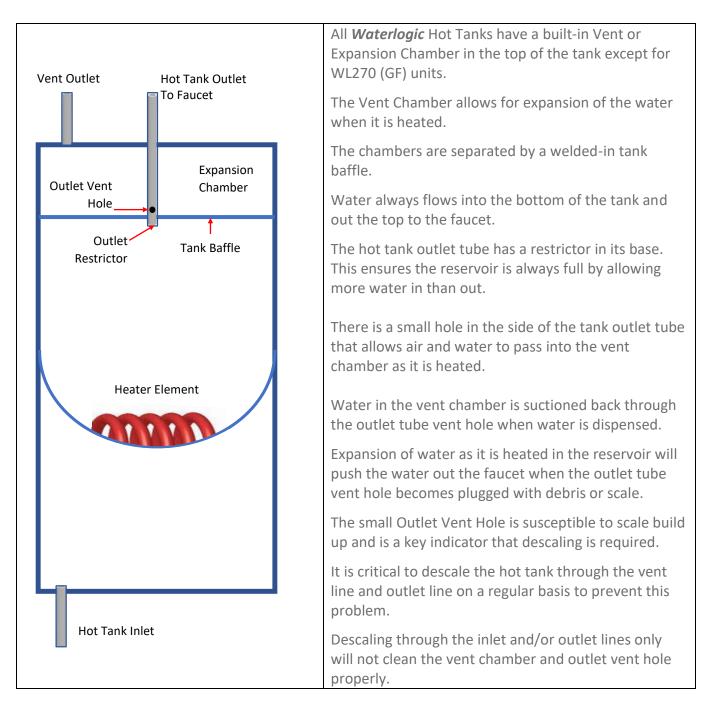
CAUTION! UV SYSTEM IS FRAGILE. Never handle the UV lamp or Quartz Spiral with bare hands. UV Lamp and quartz spiral must be free of oils and contaminants to ensure proper operation. Use a soft non-abrasive cloth to clean.

- 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.

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



HOT TANK PRINCIPLES OF OPERATION





RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1.	Red Compressor/Heater Switch must be in the <i>O=OFF</i> position	
2.	Unplug the Power Cord from rear of WL2FLT Water Treatment System.	
3.	Remove the Side Panel by removing the Front Hatch and Side Panels.	
4.	Locate the Hot Tank	
5.	Press the Reset Button	
6.	Replace the Lower Front Panel.	
7.	Plug in the Power Cord.	
8.	Turn on the Red Compressor / Heater Switch I=ON position The Hot and Cold Tanks must be filled with water BEFORE turning on the Red Heater and Compressor Switch.	
9.	Verify the cooler is fully operational before installing it at the customers' site.	



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 are non-toxic but left unattended will hinder your unit's performance.

WARNING! 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.

<u>CAUTION!</u> 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:

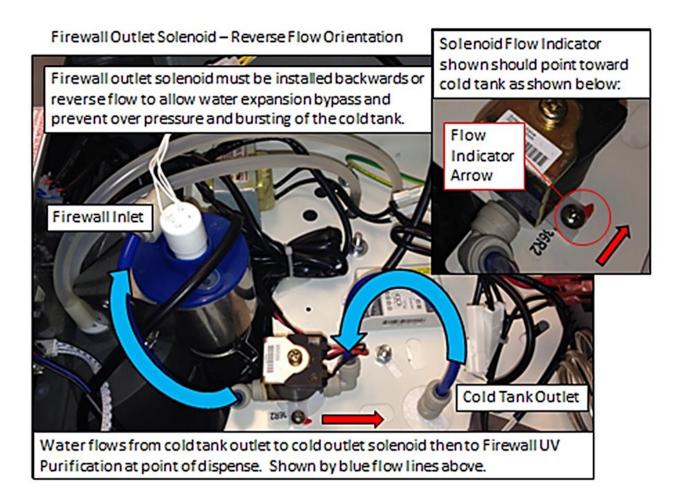
- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 19 Liter (5 gallon) container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet 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 *WL2FLT Water Treatment System*. 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 *WL2FLT Water Treatment System.*
- 7. Flush the Hot Tank by dispensing hot water until water runs clear.
- 8. Once clear Water dispenses from the faucet the Hot Tank has been descaled. Always ensure the *WL2FLT Water Treatment System* is performing to the customer's satisfaction.
 - ▲ WARNING! HOT WATER. The WL2FLT Water Treatment System produces Hot Water up to 86°C (187°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.
 - ▲ CAUTION! MUST REPLACE HOT TANK 3-5 YEARS DEPENDING ON USAGE. The Hot Tank and its controls must be replaced a minimum of every three to five years to ensure efficient and dependable operation.
 - **WARNING!** *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.



FIREWALL™ OUTLET SOLENOID – REVERSE FLOW ORIENTATION





ADJUSTING COLD SET POINT

Cold Water Temperature – Factory Set Point is 41°F (5°C) and can be adjusted to 34°F - 54°F (1.1°C to 12.2°C)

The cold set point can be adjusted by accessing the cold thermostat adjustment screw under the decal at the rear of the unit.

Remove the red portion of the Cold Tank Temperature label to access the adjustment screw.

The factory set point is ~41°F and is indicated by the dot on sheet metal.

Turning the adjustment screw clockwise to lower the set point temperature.

Do not adjust past the "Max Cold" position at 3:00 position to avoid freezing the cold tank.

Turning the adjustment screw counter-clockwise to raise the set point temperature.







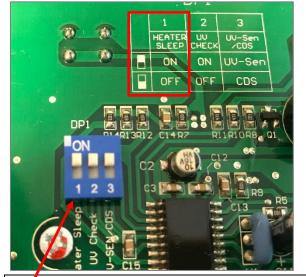


PROGRAMMING INSTRUCTIONS

DISABLING ENERGY SAVING SLEEP MODE

All **WL2FLT Water Treatment Systems** come from the factory with Energy Saving Sleep Mode engaged to meet the Energy Star Certification requirements. Energy Saving 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 **WL2FLT Water Treatment System** 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 85°C (185°F) set point.

Unplug Power Cord and remove Top Cover to access back side of the Display PCB.



WL2FLT Water Treatment Systems comes with the Energy Saving Sleep Mode "ON" - the Default Position. DIP 1 in the "ON" position (up).	
Deactivate the Energy Saving Sleep Mode by moving DIP 1 in the "OFF" position (down).	



REPLACEMENT COMPONENTS - CONSUMABLES

Component	WLCP PN	Frequency of Replacement
15W LTFW XTM UV Lamp Assembly	12-8310	Every 12 months, or as required Factory Part No CT-2085-IA0-00
Hot Tank 120V/500W - 1.6L with Thermistor	10-4029	Replace every 3 to 5 years depending on usage. Factory Part No HT-3024
Sediment Filter - 10" 20 Micron Inline Filter	FT-0053-IL containing FT-0055 Filter Element	Every 12 months or every 1,250 gallons. Factory Part No FT-0053-IL Assembly containing FT-0055-WLT Filter Element
1-micron 10" Inline CBC Filter for CTO, Lead, Cyst and Asbestos Reduction (Carbon Block) NSF 53 Required for NSF Certification	FT-0014-IL containing FT-0007 Filter Element	Every 12 months or every 1,250 gallons. Factory Part No FT-0014-IL Assembly containing FT-0007-WLT Filter Element
10-micron 10" Inline GAC Filter for Taste and Odor Reduction (Grannual Activated Carbon) NSF 42 Required for NSF Certification	FT-0035-IL containing FT-0038 Filter Element	Every 12 months or every 1,250 gallons. Factory Part No FT-0035-IL Assembly containing FT-0038-WLT Filter Element

* One pre-installed. One required for NSF-42 / NSF-53 Certification.

<u>CAUTION!</u> Use only Waterlogic Replacement parts that can be obtained from *Waterlogic* or an *Authorized Waterlogic Dealer*, failure to do so will void the Warranty.

See Installation and Service Manual for additional information.

Hot Tank Service

Hot Tanks (with controls) must be replaced at least every 3-5 years depending on usage. Descaling hot tank may be required on a regular basis depending upon filtration and local water conditions. See Installation and Service Manual for further details.

Surface Cleaning

Clean on a regular basis with damp lint free cloth. Never use harsh chemicals (alcohol or acid based) or abrasive agents on any part of the product to avoid damage. A mild cleaner such as Simple Green or equivalent is recommended.

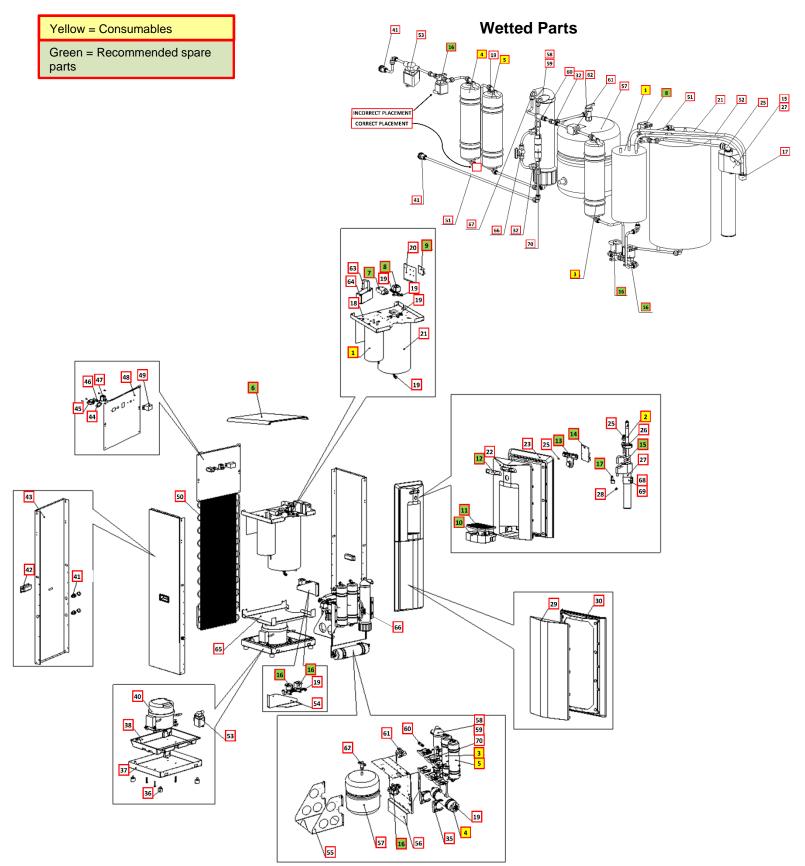
DISPOSAL

End of Life

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**. Do not dispose of this appliance with normal household or business waste.



WL2FLT TOWER LAYOUT DRAWING AND PARTS LIST





WL2FLT TOWER LAYOUT DRAWING AND PARTS LIST

No	WLUSA Part Number	Description	Factory Part Number	Stocked?	
Consumables					
1	10-4029	Hot Tank 120V/500W - 1.6L with Thermistor	HT-3024	Yes	
2	12-8310	15W X UV Lamp Assembly	CT-2085-LA0-00	Yes	1
3	FT-0035	GAC Filter - 10" Carbon Activated Inline Filter	FT-0035-IL-WLT	Yes	
4	FT-0053	Sediment Filter - 10" Sediment 20 Micron Inline Filter	FT-0053-IL-WLT	Yes	
5	FT-0014	1-micron 10" Inline CBC Filter for CTO, Lead, Cyst and Asbestos Reduction – Carbon Block	FT-0014-IL-WLT	Yes	
Not shown	01-2076	Scale Kleen	NA	Yes	
Recom	mended Spare Pai	rts			
1.1	12-1360	Overload with Manual reset - 221°F (105°C) Recommend stocking 2 each per 10 units purchased	HT-3012	Yes	N
1.2	12-6900	Overload Metal Cover Recommend stocking 2 each per 10 units purchased	ST-8290	Yes	
6	PL-0191-L00-BL	Black Top Cover Recommend stocking 2 each per 10 units purchased	PL-0191-L00-BL	Yes	
7	EN-0008-LA1-00	13W / 15W 120V / 60Hz Electronic FX Ballast Recommend stocking 2 each per 10 units purchased	EN-0008-LA1-00	Yes	
8	PU-4017	Solenoid Valve DC24V 500mm Recommend stocking 2 each per 10 units purchased	РU-4017-В	Yes	4
9	EN-6134	FW2 Extra hot Main PCB Recommend stocking 2 each per 10 units purchased	EN-6134	Yes	
9.1	10-3017	Plastic PCB Support Recommend stocking 2 each per 10 units purchased	EN-6059	Yes	Stat
10	PL-0194-L00-BL	Black Drip Tray Body Recommend stocking 4 each per 10 units purchased	PL-0194-L00-BL	Yes	Constant Constant
11	PL-0195-L00-BL	Black Drip Tray Grill Recommend stocking 4 each per 10 units purchased	PL-0195-L00-BL	Yes	

			(Ing. Better water.		
12	LP-0422-L00-00	Hot and Cold User Interface Label Recommend stocking 2 each per 10 units purchased	LP-0422-L00-00	Yes			
13	PL-0199-L00-00	Hot and Cold Dispense Silicon Button Mat Recommend stocking 2 each per 10 units purchased	PL-0199-L00-00	Yes			
14	EN-0147-L00-00	WL2FWFL Display PCB H&C w/ Pedal – Ver. 2 Recommend stocking 2 each per 10 units purchased	EN-0147-L00-00	Yes			
15	12-8305	Quartz Spiral UV Faucet Recommend stocking 2 each per 10 units purchased	FU-0007	Yes			
16	PU-0017-L00-00	Solenoid Valve MS DC SWV24-01 Recommend stocking 2 each per 10 units purchased	PU-0017-L00-00	Yes			
17	12-8370	Hot Water Faucet <i>Recommend stocking 2 each per 10 units</i> <i>purchased</i>	PL-1351	Yes	t		
Remain	Remainder of Parts						
18	12-8003	Upper Shelf	ST-8136-R2	Yes			
19	Purchase from John Guest	JG Equal Elbow Connector 1/4" John Guest P/N PI0308S	PU-4008	No	9		
20	12-5245	Main PCB Bracket	ST-8165-CN	Yes	· · · · ·		
21	CT-2017-A	Cold Tank Assembly - 4Liters	CT-2017-A	No			
22	PL-0202-L00-BL	Black Front Top Panel	PL-0202-L00-BL	Yes			
23	PL-0192-L00-SI	Silver Front Top Panel Trim	PL-0192-L00-SI	Yes			
24	EL-0148-L00-00	LED Light Pipe	EL-0148-L00-00	Yes	3		
25	Purchase from John Guest	JG 3/8" x 1/4" Reducing Elbow (PI211208S)	PU-4137	No			



					ang. better water.
26	12-8320	Firewall UV Lamp Rubber	CT-2088	Yes	
27	FW-0027	Firewall Mark IV Stainless Assy No internal components	FW-0027-L00-00	Yes	
28	AK-0064	UVC Sensor Assembly	АК-0064	Yes	
29	PL-0301-L00-00	WL2FLT Front Down Panel	PL-0301-L00-00	Yes	
30	PL-0302-LA0-00	WL2FLT Front Down Trim	PL-0302-LA0-00	Yes	
31	Purchase from John Guest	JG Reducing Elbow Connector 5/16" * 1/4" (PI211008S)	PU-4007	No	
32	Purchase from John Guest	JG Equal Tee Connector 1/4" (PI0208S)	PU-4011	No	50
33	CU-0001	Solenoid Cushion	CU-0001	Yes	
34	12-8005	Filter Bracket	ST-8138	Yes	
35	20-1010	2.8" Filter Clip	PU-4161	Yes	0
36	ST-8167CN	Unit Rubber Feet	ST-8167CN	Yes	
37	12-8004	Bottom Tray	ST-8137	Yes	
38	12-3155	Leak Tray	PL-1294-A	Yes	
39	12-3180	Leak Containment Tray Clip (sensor 0.5mm)	ST-8207-CN	Yes	



Verify compressor in machine before ordering parts as the Compressor P/N CO-0020-L00-00 and 10-
2200 (CO-0001A) and related parts are not interchangeable.

2200 (CO-0001A) and related parts are not interchangeable.						
CO-0020-L00-00 Compressor (China model)						
40A.1	CO-0020-L00-00	LG Compressor 120V R134A CSB035LJCM	CO-0020-L00-00	Yes		
40A.2	CO-0019-L00-00	Compressor Capacitor	CO-0019-L00-00	Yes	- HERRY	
40A.3	ST-0216-L00-00	Capacitor Bracket	ST-0216-L00-00	Yes		
40A.4	CO-0017-L00-00	PTC Relay	CO-0017-L00-00	Yes		
40A.5	CO-0018-L00-00	Overload Protector	CO-0018-L00-00	Yes	A start	
CO-xx	xxx-L00-00 C	ompressor (USA model)				
40B.1	CO-0043-100-00	LG Compressor 120V R134A CSB035LJCM	CO-0043-100-00	Yes		
40B.2	ST-0216-L00-00	Capacitor Bracket	ST-0216-L00-00	Yes		
40B.3	CO-SS01-L00-00	PTC Relay	CO-SS01-L00-00	Yes		
40B.4	CO-SS02-L00-00	Overload Protector	CO-SS02-L00-00	Yes		
40.1	12-1001	Filter Dryer	CO-9008	Yes		
41	10-3067	Bulkhead Union ¼" x ¼" John Guest P/N PI1208S	PU-4028	Yes		
42	10-4004	Black Plastic Handle	PL-1120	Yes		
43	ST-0338-L00-00	Tower Side Panel (Tall) - Black	ST-0338-L00-00	Yes	-	
44	19-1015	Gasket for Power Socket	ST-8052	Yes		
45	19-1090	Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	EL-5029	Yes		
46	10-3014	Fuse Holder and Fuse 120V / 15A with One Wire	EL-5053	Yes	1.)	



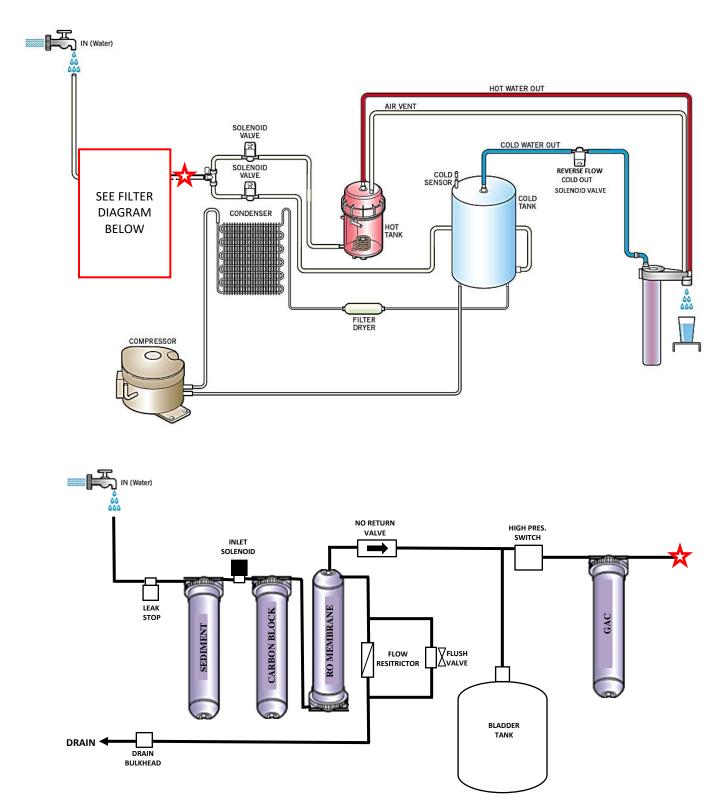
	-			Detter triini	king. Better Water.
46.1	10-3013	Fuse 120V / 15A	EL-5010	Yes	
47	12-5600	Red Heater and Compressor Switch	EL-5019-A	Yes	
48	ST-0339-L00-00	Tower Back Panel (Tall) - Black	ST-0339-L00-00	No	
49	19-1069	Cold Tank Thermostat 3°C (37.4°F)	CT-2070-A	Yes	
49.1	LP-0326	Cold Thermostat Cover Label	LP-0326-L00-00	Yes	COLORANCE AND
50	12-8102	Wire Condenser	CO-9027	No	
51	Purchase from John Guest	JG LLD PE Tube - Blue O.D.1/4" John Guest P/N PE-08-BI-1000F-B	PU-4031	No	
52	10-7040	Silicon Tube 5/16" for hot water	PL-4064-L00-00	Yes	/
53	PU-0061-L00-00	Stormtech Mechanical Leak Detector	PU-0061-L00-00	Yes	
54	ST-0006-L00-WH	FW2 RO Solenoid Valve Fixing Bracket	ST-0006-L00-WH	Yes	
55	ST-0004-L00-WH	FW2 RO Bladder Tank Fixing Bracket	ST-0004-L00-WH	Yes	
56	ST-0003-L00-WH	FW2 RO Filter Bracket	ST-0003-L00-WH	Yes	
57	CT-0001-L00-00	RO Pressurized Tank (2 Gallons) – FW2 RO	CT-0001-L00-00	Yes	
58	RO-0003-A	RO Housing Micro	RO-0003-A	Yes	
59	RO-0099	RO Membrane FilmTec BW60-1812-75	RO-0099	Yes	
60	PU-4057	JG Non-Return Valve ¼"	PU-4057	Yes	
61	RO-0024	High Water Pressure Switch	RO-0024	Yes	-
62	PU-4082	JG Shut Off Valve NPT ¼" (PPSV500822W)	PU-4082	Yes	
63	ST-8315	WL400 Adapter Bracket	ST-8315	Yes	



					ang, a a traiter.
64	RF-0001-L00	Power Adaptor (24V) for Pump for FW2 RO	RF-0001-L00	Yes	
65	ST-0007-L00-WH	WL2000 + 2500 FS upper front Shelf (universal to ST-8136)-FW	ST-0007-L00-WH	Yes	
66	RO-0010-A	Flushing Valve Micro	RO-0010-A	Yes	
67	RO-0006-A	%'' Rigid Elbow for RO Housing Micro	RO-0006-A	Yes	
68	FU-0010	UVC Sensor Fixing Metal Bracket (w/Tube)	FU-0010	Yes	
69	FU-0011	UVC Sensor Fixing Metal Bracket Back	FU-0011	Yes	
70	RF-0004-L00-00	RO Flow Restrictor w/ Quick Fitting	RF-0004-L00-00	Yes	
Not Shown	10-3007	Power Cord 120V – 18240mm	EL-5001-B	Yes	



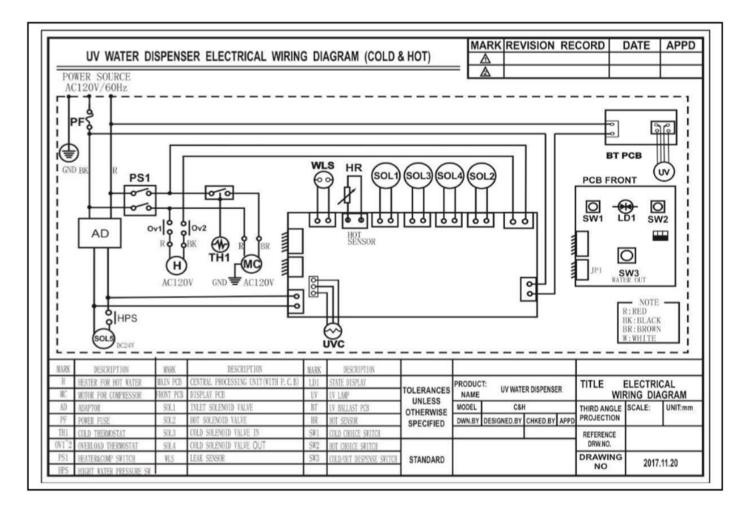
WL2FLT (-FZ) TOWER WATER FLOW DIAGRAM





WL2FLT 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.



PRE-INSTALLATION PROCEDURES

<u>DANGER!</u> 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.

<u>WARNING!</u> ALWAYS SANITIZE BEFORE USE.

Sanitize before use to eliminate any potential microbiological contaminates.

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.



<u>CAUTION!</u> DRIP TRAY DRAIN.

If you intend to provide a drip tray drain for your customer, be aware that you will be called multiple times per month to service and unclog the tubing leading away from the drip tray to drain. Users will clog the drain with paper clips, erasers, napkins, tea bags, gum, and various other intended items. Waterlogic recommends you establish a minimum of weekly visits to the machine for cleaning of the drip tray drain.

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
- 16 Liter (5 gallon) container or drain basin
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- 1. Unpack the *Waterlogic WL2FLT Water Treatment Systems* and check exterior for damage.

Flush Filters

<u>**CAUTION!**</u> FILTER FLUSH REQUIRED.

WL2FLT Water Treatment Systems are supplied with an RO system containing several filters.

In order for the RO system 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.





2. Connect WL2FLT Water Treatment System to power.

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



<u>**CAUTION!**</u> NEVER TURN ON HEATER BEFORE FILLING HOT TANK.

Red Heater & Compressor 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. O=OFF

- 3. Flush thoroughly per filter manufacturers' recommendation with fresh water to drain. Flush 2 gallons of water through both the GAC and the CBC filters separately, isolated from the RO system. Reinstall the filters.
- 4. Disconnect product water line and route to drain. Flush the entire RO system for **1 hour, running both product and reject water to drain.**

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

UV System Functional Test

- **WARNING!** ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Disconnect wiring before removing.
- Remove UV Firewall[™] Lamp from Firewall[™] housing. Remove Top Cover from Firewall[™] housing. Carefully remove Quartz Spiral from Firewall[™] Housing and inspect for cracks or other damage. Reinsert Quartz Spiral, replace Top Cover of Housing. Inspect UV lamp and reinsert into Housing.
- 6. Press dispensing button and check for blue glow from top of Firewall[™] Housing and at Faucet dispensing area to ensure UV lamp is operational.

Note: UV Lamp Sensor is temperature sensitive. During extended periods of use, especially when filling or draining the unit, when water is not being dispensed UV lamp sensor can overheat initiating a UV fault. If this occurs turn off unit for 5 minutes and allow sensor to cool before resuming operation

- 7. Disconnect UV lamp to test UV lamp sensor operation. Unit should alarm and green indication LED on front of unit should flash.
- 8. Disconnect power to WL2FLT Water Treatment System.
- 9. Reconnect UV lamp.

WL2FLT Manual



10. Connect power to WL2FLT Water Treatment System.

Compressor Test

11. Red Heater & Compressor to be in the on position *I=ON*. 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. *I=ON*



12. Once the **WL2FLT Water Treatment System** reaches its target temperature, the compressor will shut off. Draw a glass of cold water and verify it is has chilled to proper temperature <46F.

Heater Test

- 13. 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 24°C (75°F) to the factory set point of 87°C (187°F). Dispense a cup of hot water to ensure the temperature/odor/taste is acceptable.
 - ▲ WARNING! HOT WATER CAN BURN OR SCALD. The WL2FLT Water Treatment System produces Hot Water up to 87°C (187°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.



WL2FLT TOWER DRAINING INSTRUCTIONS

Draining Notes

Drain the WL2FLT Water Treatment System for transportation.

WARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE USE, OR AFTER SYSTEM FAILURE.

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 (½ Gallons) of hot water from the machine. As hot water is dispensed from the faucet of the *WL2FLT Water Treatment System*, colder water will be introduced into the hot tank. Since the Red Heater and Compressor 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.

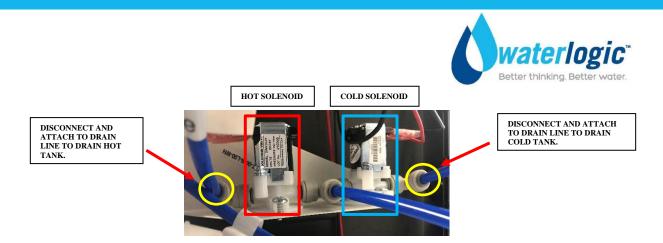
Disable Cold and Hot Tanks

- 1. Turn off the Red Heater and Compressor Power Switch (*O-OFF*) to disable the heater and compressor.
- 2. Dispense 2 liters (1 gallon) of water through the hot tank to cool the water temperature in the hot tank and avoid burns.
 - ★ WARNING! HOT WATER. The WL2FLT Water Treatment System produces Hot Water up to 84°C (187°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.

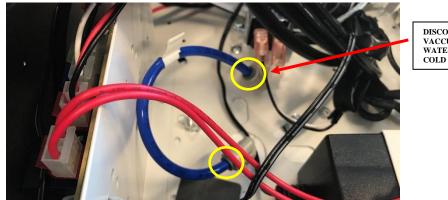
Turn off Water Supply and Bleed Water Pressure

- 3. Isolate the *WL2FLT Water Treatment System* from incoming feed water by turning off the supply.
- 4. Dispense cold still water to relieve any pressure built up in the system.
- 5. Prepare a drain line with a ¼" union that's already routed to drain or catch basin. Disconnect the line between the hot tank and the hot tank solenoid and quickly connect that line to the union of the drain line set up earlier.
 - MARNING! As soon as the line between the hot tank and its solenoid is disconnect, water will begin draining from the hot tank. Be prepared to pinch off the line or quickly swap it to the drain line set up previously.





- 6. Once the hot tank is empty, reconnect the line between the hot tank and its solenoid.
- 7. Disconnect the line between the Cold Tank and its solenoid. Because the cold tank is air locked at the top, it will not immediately begin to drain. Connect the line coming out the bottom of the cold tank to the drain line setup previously. Then, disconnect the line in the top compartment between the Cold Tank and outlet solenoid.



DISCONNECT TO BREAK THE VACCUUM AND ALLOW WATER TO DRAIN FROM COLD TANK.

8. Water will begin draining from the Cold Tank once disconnected. Once the Cold Tank is empty, reconnect the solenoid in the top compartment AND in the lower cabinet between the cold tank solenoid and the cold tank.







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 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 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 the unit with a potable ambient or cold water supply only. 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.

<u>WARNING!</u> STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE, OR AFTER SYSTEM FAILURE

The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use, or after system failure to eliminate any potential microbiological contaminates

Pre-installation procedures as prescribed in this manual must be performed before installing the *WL2FLT Water Treatment Systems*.

Always install indoors and place the *Waterlogic WL2FLT Water Treatment System* on a firm, flat and stable surface.

- 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.

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

- Connect the power cord to the back of the Waterlogic WL2FLT Water Treatment System and to a 120 Volt supply.
- 4. Ensure the Bladder Tank Valve is open and feeding water to the system.
- 5. 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.
- 6. 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.

A 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.

7. Verify that the UV lamp operates as expected.

WL2FLT Manual

- **WARNING!** ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Always disconnect before removal.
- 8. Move the *Waterlogic WL2FLT Water Treatment 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.
- 9. Level unit using the adjustable feet to level if necessary. Never install on incline.
- 10. Turn the Red Compressor & Heater Power Switch to *I=ON* position.
- 11. 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.
- 12. 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.
- 13. Check the *WL2FLT Water Treatment System* for any leaks. External Leak Protection is always recommended.











FAULT CODE TROUBLESHOOTING INDEX

- 1. Red Light Flashing and Beeping
- 2. Green Light Flashing and Beeping
- 3. Orange LED Light (Indicates Heater is ON this not an error or fault)
- 4. No LED Light

1. FAULT CODE: Red Light Flashing and Beeping indicate that the Leak Detector has sensed water in the Leak Tray and will shut down inlet solenoid.

Possible Reason	Solution
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.
*Leak Detection is on the	
Counter Top Model only.	
	Water is in the bottom of the WL2FLT Water Treatment
Leak in WL2FLT Water	System. Clear Leak Detection Tray to ensure inside of unit is
Treatment System Counter	dry.
Top	
100	Check for source of leak and fix as necessary.



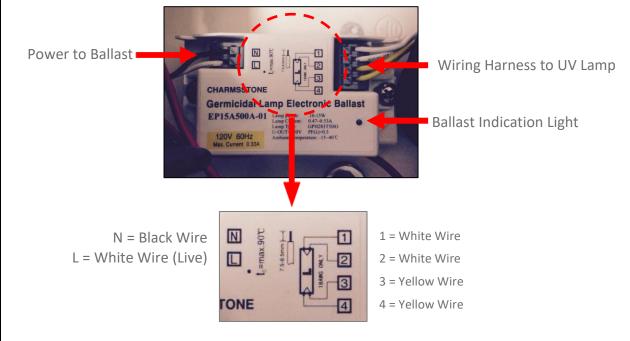


2. FAULT CODE: Green Light Flashing and Beeping - Indicates the Firewall[™] UV system is not detecting adequate dose of UV to ensure safe water.



<u>*The Cold Solenoid will shut down and no cold water will dispense. Hot water will</u> <u>still dispense.</u>

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.
Remove Cover to locate Ballast	





3. FAULT CODE: Orange LED Light

Possible Reason	Solution
Heater is ON	Indicator that heater is ON.



4. 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.





POWER TROUBLESHOOTING INDEX

- 1. <u>Red Heater & Compressor Power Switch won't light and the Red LED on the Front</u> <u>won't light</u>
- 2. Red Heater & Compressor Power Switch is lit but the red LED on the Front is not lit
- 3. Compressor Runs but does Not Chill
- 4. Compressor is Not Running

1. <u>Red Heater and Compressor Power Switch won't light and the Red LED on the</u> <u>Front won't light</u>

Possible Reason	Solution
Circuit Breaker	Check the Circuit Breaker
Fuse is Blown	Replace Fuse
Defective / Loose Power Cord	Check that Power Cord is properly plugged in. If it is properly plugged in, use a different power cord to verify.
Failed Socket - Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	Replace Socket - Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)
Defective Red Heater & Compressor Switch	Replace Red Heater & Compressor Switch



2. <u>Red Heater & Compressor Power Switch is lit but the Red LED on the Front is not</u> <u>lit</u>

Possible Reason	Solution
Bad Transformer	Replace Transformer
Black Power Connector to the PCB is not properly connected	Properly connect.
Bad Front PCB	Replace Front PCB
Defective Red Heater & Compressor Switch	Replace Red Heater & Compressor Switch

3. 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. Counter Top should be 40 grams (1.41 ounces) Tower should be 65 grams (2.29 ounces)
	Refrigerant recharge as necessary.



4. Compressor is Not Running

Possible Reason	Solution	
Red Heater & Compressor Switch button on unit is in the off position	Turn Red Heater & Compressor Switch on. <i>I = ON</i>	0
	Turn Red Heater & Compressor Switch off. O = OFF.	
Compressor Starting Circuit	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 Heater & Compressor Switch on <i>I = ON</i> and retest compressor operation.	0



DISPENSE TROUBLESHOOTING INDEX

- 1. Irregular / Intermittent Dispensing from One Side
- 2. <u>Hot Water Intermittently Forced Out Through the Faucet, or a Dual Stream Out of the Faucet</u>
- 3. Dispensing won't stop when not holding the Dispensing Button
- 4. Steady Drip out of Faucet
- 5. Hot Water or Steam coming out of both the Faucet and the Vent Hole
- 6. Hot Water coming out of Faucet Vent Hole
- 7. Low Flow of Water
- 8. <u>Restricted Flow of Hot Water</u>
- 9. Hot Water Drip out of Faucet
- 10. Dispenses Hot and Cold Water at the same time
- 11. No cold water available
- 12. Water does not dispense from unit
- 13. No Water is Dispensing from One Side Cold or Hot
- 14. Cold Water dispenses from Faucet and Vent Outlet Simultaneously
- 15. Small amount of water periodically dispenses from faucet automatically
- 16. Dispense Buttons Stick
- 17. Water Stream is at an Angle
- 18. Run-On Water continues to dispense out of faucet after releasing the dispense button
- 19. RO system continuously runs, non-stop flow from drain line
- Also includes related instruction for Hot Tank Descaling



1. Irregular / Intermittent Dispensing from One Side

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	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.
Loose or bad connection on the Front Dispensing PCB or Solenoid Connector	Check that they are connected properly and tightened.
Solenoid	If both the Water Pressure and PCB have been ruled out, then it is the Solenoid.
	Replace Solenoid.
Dispensing button is broken on PCB	Check PCB for loose or damaged button. Replace PCB as necessary.

2. <u>Hot Water Intermittently Forced Out Through the Faucet, or a Dual Stream Out of</u> <u>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 <u>See Hot Tank Descaling Instructions that are included further</u> <u>below in this Troubleshooting Section.</u>



3. Dispensing Won't Stop When Not Holding the Dispensing Button

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	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.
Bad Display PCB	Replace Main PCB
Debris in the Solenoid	Inspect Solenoid for debris and clean out as needed.
Dispensing Button Stuck	Dirt or Foreign material is filling the gap around the push-buttons. Inspect the push buttons and clean surrounding area. Inspect faucet assembly inside the unit and clean as necessary.

4. <u>Steady Drip Out of Faucet</u>

Possible Reason	Solution
Debris in Solenoid	Inspect Solenoid for debris and clean out as needed.

5. 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 Hot Tank Outlets to correct Faucet attachments. Connect tubing to outlets as needed.



6. Hot Water Coming out of Faucet Vent Hole

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	 The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. 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.
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 Tank as needed. See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.
Expansion chamber is not sealed properly.	Replace the Hot Tank.



7. Low Flow of Water – Rated Service Flow is 1.6 Liters (0.42 gallons) per Minute

Possible Reason	Solution
Determine Flow of Water	Rated Flow Rate is 1.6 Liters (0.42 gallons) per minute . Check flow rate by dispensing into a container to measure for one minute and measure the amount of water that was dispensed.
Feed Lines too small	Feed lines can restrict flow if run long distances from the supply. It may be necessary to increase the supply line (e.g., use 3/8" feed line vs. ¼".
Elbows and turns in the feed line	Minimize elbows and turns in the feed line.
Filters	Filters with high pressure drop due to fouling or just by design. Change filters more frequently or go to higher micron size filter for local water conditions.
Restrictions	Follow flow path to ensure there are no undiscovered restrictions due to debris or malfunctioning valves, including the supply valve at the source.
Booster Pump	Add a booster pump to the supply line if the feed is slower than needed.
Bladder Tank Pressure Drop	The pressure inside the bladder of the tank has dropped or bled off slightly, reducing the pressure output of the tank. Recharge using the Shrader valve on the tank to 5-6psi.
Bladder Tank Failure	The Bladder Tank is no longer holding air pressure, so that it cannot drive the water out. Replace the Bladder Tank.



8. <u>Restricted Flow of Hot Water</u>

Possible Reason	Solution
Partially closed water supply valve to the unit.	Open water supply valve.
Hot Tank outlet hole is scaled over.	Descale Tank. <u>See Hot Tank Descaling Instructions that are included</u> <u>further below in this Troubleshooting Section.</u>
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 WL2FLT Water Treatment System 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 Malfunctioning	Inspect valve components for proper function. Replace as necessary.



9. Hot Water Drip out of Faucet

Poss	ible Reason	Solution
		Descale Tank.
Small Outlet Vent Hole susceptible to scale build up.		See Hot Tank Descaling Instructions that are includedfurther below in this Troubleshooting Section.
Vent Outlet	Hot Tank Outlet	All <i>Waterlogic</i> Hot Tanks have a built in Vent or Expansion Chamber in the top of the tank except for WL270 (GF) units.
	To Faucet	The Vent Chamber allows for expansion of the water when it is heated.
	Expansion	The chambers are separated by a welded-in tank baffle.
Outlet Vent Hole	Chamber	Water always flows into the bottom of the Hot Tank and out the top to the Faucet.
Outlet Restrictor	Tank Baffle	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.
Heater Element		There is a small hole in the side of the Hot 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.
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.



10. Dispenses Hot and Cold Water at the same time

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	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.
	Remove Top Cover.
Hot or Cold solenoid is stuck open.	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.



11. No Cold Water Available

Possible Reason	Solution
Too much water pressure.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
Recommend 40 to 60 psi for the <i>WL2FLT Water Treatment</i> <i>System</i> 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.
Closed Water Supply Valve	Open the Water Supply Valve
Cold Water Solenoid Valve malfunction	Inspect the valve components for proper functionality.
Red Heater & Compressor Switch on unit is off.	If water is dispensing at room temperature:Turn Red Heater & Compressor Switch on.I = ON
Loose connection(s) on the Display PCB	Turn power off; unplug the WL2FLT Water Treatment System 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.



12. Water does not dispense from Unit

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	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.
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 & Compressor Switch button on unit is in the off position	Turn Red Heater & Compressor Switch on. I = ON
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 Display PCB are loose.	Turn power off; unplug the WL2FLT Water Treatment System 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.
High Pressure Switch Failure	High Pressure Switch has failed and choked water off from the tanks in the system. Replace Pressure Switch.



13. No Water is Dispensing from One Side – Cold or Hot

Possible Reason	Solution
	Verify water pressure at the Inlet Bulkhead with a Pressure Regulator.
Too much water pressure. Recommend 40 to 60 psi for the <i>WL2FLT Water Treatment</i> <i>System</i> 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 the Dispense Button "click".
	Adjust water pressure to 40-60 psi. <i>The correct input water pressure is critical to the performance of the unit to allow solenoids to open.</i>
	Switch the hot and cold wires on PCB (red and blue connections).
РСВ	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.

14. Cold Water Dispenses from Faucet and Vent Outlet Simultaneously

Possible Reason	Solution
Improper tubing attachment from the Cold Tank to Faucet or vice versa	Verify tubing is connected properly from Cold Tank Outlets to correct Faucet attachments.
Scale has formed inside Cold Tank outlet tube.	Remove Cold Water Outlet Tube from Cold Tank to Faucet. Pour some scale remover into Cold Tank.
Expansion chamber in Cold Tank is not sealed properly.	Replace Cold Tank.



15. Small Amount of Water Periodically Dispenses from Faucet Automatically

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the WL2FLT Water Treatment System to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	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.
Cold or Hot Water solenoid valve malfunction	Inspect valve components for proper function. Replace as necessary.
	Pre-determine whether water being dispensed is hot or cold.
Obstruction in solenoid housing is preventing proper sealing of component.	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).

16. Dispense Buttons Stick

Possible Reason	Solution
Dirt or Foreign material is	Inspect the Dispense Buttons and clean surrounding area. Inspect
filling the gap around the	Faucet Assembly inside the WL2FLT Water Treatment System and
Dispense Buttons.	clean as necessary.



17. Water Streams at an Angle

	Solution	
	Rotate the Bung (Blue Silicone) and the JG fittings a few degrees.	
	Verify the Incoming Feed with a Pressure Regulator. Should be 40-	
	60 psi (275-414 kPa) – Use Pressure Regulator	
Water Feed Pressure		
	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.	
	Verify the outgoing Flow Rate. Should be 1.6 Liters per minute (0.42	
	gallons per minute) - Firewall™ Purification.	
Outgoing Flow Rate	Dispense water for one minute – should measure 1.6 Liters (0.42	
5 5	gallons) per minute	
	Change Flow Restrictor if needed.	



18. <u>Run On – Water continues to dispense out of faucet after releasing the dispense</u> <u>button</u>

Reason

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

"Run On" is defined is 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.				



19. RO system continuously run, non-stop flow from drain line

	Solution
Water Feed Pressure Too Low	If the source water pressure being fed to the machine is too low, the High Pressure Switch will never be engaged, and the RO system will continually run, causing constant water flow to drain. Consider installing a booster pump to push the incoming feed pressure closer to 40psi.
Membrane Flush Valve is Open	Close the Membrane Flush Valve
High Pressure Switch Failure	Inspect the High Pressure Switch and ensure it is working properly. Replace as needed.



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.

WARNING! 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.

<u>CAUTION!</u> 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
- 19 Liter (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
- 9. Put descaler per directions and 3 drops of food coloring into the descaling cartridge.
- 10. Connect descaling cartridge to the inlet water supply and connect to inlet bulkhead fitting on the back of the *WL2FLT Water Treatment System*. Turn on Water Supply.
- 11. 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.
- 12. Turn off water supply and remove sanitizing cartridge from inlet water supply. Reconnect water supply to inlet fitting.



- 13. Allow descaling solution to remain in the Hot Tank for 15 minutes (length of time may vary depending on water conditions).
- 14. Place a pitcher, catch basin or other container under the faucet of the *WL2FLT Water Treatment System.*
- 15. Flush the Hot Tank until water runs clear.
- 16. Once clear Water dispenses from the faucet the Hot Tank has been descaled. Always ensure the **WL2FLT Water Treatment System** is performing to the customer's satisfaction.
 - ★ WARNING! HOT WATER. The WL2FLT Water Treatment System produces Hot Water up to 87°C (187°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.
 - ▲ CAUTION! MUST REPLACE HOT TANK 3-5 YEARS DEPENDING ON USAGE. The Hot Tank and its controls must be replaced a minimum of every three to five years to ensure efficient and dependable operation.
 - WARNING! 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.



COLD WATER TROUBLESHOOTING INDEX

1. <u>Cold Water is not Cold 5°± -1.5°C (41°± 5°F)</u>

1. Cold Water is not Cold 5°± -1.5°C (41°± 5°F)

Possible Reason	Solution
No power or refrigeration elements	Check that the Red Heater & Compressor switch is on. Turn Red Heater & 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 (1	
Gallon) for Tower and 2 liters (½ Gallon) for Counter Top.	Greater capacity <i>Waterlogic Water Treatment Systems</i> are 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.



HOT WATER TROUBLESHOOTING INDEX

1. <u>Hot Water is not Hot 86°± -1.5°C (187°± 5°F)</u>

Also includes related instructions for:

- Disabling Energy Star Sleep Mode
- Resetting the Hot Tank Overload or High Safety Limit

1. Hot Water is not Hot 86°± -1.5°C (187°± 5°F)

The Hot Temperature set point is 85°C (185°F) and is controlled by a thermostat on the side of the Hot Tank.

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

The *WL2FLT Water Treatment System* is programmable to make Cold / Ambient water – refer to Disabling Sleep Mode instructions included further below in this Troubleshooting Section.

The *WL2FLT Water Treatment System* does NOT have Extra Hot capability and the maximum hot temperature is 87° C (189° F).

It typically takes 10 minutes for the 500W to heat the 1.6 Liter (0.4 Gallon) of room temperature (ambient) water to the 85° C (185° F) set point.

Possible Reason	Solution	
	Check that the Red Heater & Compressor switch is on.	
No Power	Turn Red Heater & Compressor Switch on.OI = ONI	
	If no water has been dispensed for 3 or more hours, unit goes into sleep mode. Dispense hot water, wait 5 minutes, check temperature.	
Is unit in Energy Star Sleep Mode?	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, refer to the instructions included further below in this Troubleshooting Section	
Hot Tank Overload		
Tripped	Overload will "click" when pushed. The overload is automatically reset when pressed.	
Overload is a safety		
feature to ensure the tank does not overheat.	See Resetting the Hot Tank Overload or High Limit Safety Instructions that are included further below in this Troubleshooting Section	

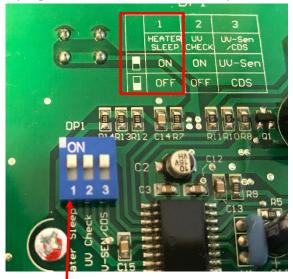
	Better thinking. Better water.	
Energy Saver PCB Relay Board Connector Bad	Inspect connector for discoloration. If there is no discoloration, contact Waterlogic Technical Department.	
Thermostat or overload "open" on Hot Tank	Turn Power off. Check OHM's resistance across terminals on each Thermostat and Overload separately. Good components will indicate a closed circuit or zero OHM's on the meter.	
	Replace components as necessary.	
Loose or improperly connected wire(s) to the Heating Element / Hot Tank.	Visually inspect wire leads gong to the hot tank; confirm proper connections to the heating elements.	
	Hot tank life is 3-5 years, depending on usage. *Typically, dealers swap out the Hot Tank at site, take back to the shop to repair.	
Heating Cail Not	Turn Power off; Drain hot tank; Use multi-meter to check Heater Element for approximately 26 OHM's resistance.	
Heating Coil Not Heating	Hot Tank must be empty if you are checking for continuity.	
	Replace Hot Tank as necessary.	



DISABLING ENERGY SAVING SLEEP MODE

All **WL2FLT Water Treatment Systems** come from the factory with Energy Saving Sleep Mode engaged to meet the Energy Star Certification requirements. Energy Saving 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 **WL2FLT Water Treatment System** 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 85°C (185°F) set point.

Unplug Power Cord and remove Top Cover to access back side of the Display PCB.





WL2FLT Water Treatment Systems comes with the Energy Saving Sleep Mode "ON" - the Default Position. DIP 1 in the "ON" position (up).	
Deactivate the Energy Saving Sleep Mode by moving DIP 1 in the "OFF" position (down).	



RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1.	Red Compressor/Heater Switch must be in the <i>O=OFF</i> position
2.	Unplug the Power Cord from rear of WL2FLT Water Treatment System.
3.	Remove the Side Panel by removing the Front Hatch and Side Panels.
4.	Locate the Hot Tank
5.	Press the Reset Button
6.	Replace the Lower Front Panel.
7.	Plug in the Power Cord.
8.	Turn on the Red Compressor / Heater Switch I=ON position The Hot and Cold Tanks must be filled with water BEFORE turning on the Red Heater and Compressor Switch.
9.	Verify the cooler is fully operational before installing it at the customers' site.