



# Ecostream Plus

## MANUAL



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## **Ecostream Plus MANUAL**

Congratulations on your choice of the **Waterlogic Ecostream Plus Water Treatment System**. The **WL250** model dispenses cold, and hot. Every **WL250 Water Treatment System** includes:



**Bio-Cote Anti-Microbial Protection**



**Advanced In-Tank Ultraviolet (UV) Purification**



**Filter configuration can be optimized for all water conditions**

The **Canteen Ecostream Plus 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 **Canteen Water Treatment System**. Contact your **Authorized Canteen Dealer** if you have any questions.

**Waterlogic** and **Authorized Canteen Dealers** employ trained service personnel who are experienced in the installation, function and repair of this 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 your **Authorized Canteen Dealer**.

**Canteen 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:

**⚠ 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.*

## **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. 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 contaminants.*
- ⚠ 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.**

## **ECOSTREAM PLUS FEATURES AND BENEFITS**

### **Cold and Hot Water**

Counter Top and Tower Models come standard with Cold, Hot, and Ambient Water Selections to meet a wide range of customer demands. Cold Water Temperature is adjustable.

### **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**

Certain plastic, silicon, and painted surfaces surrounding the dispensing areas and drip tray 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



### **Large Dispense Area with Recessed Faucet**

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

### **Leak Prevention**

**ECOSTREAM PLUS Water Treatment Systems** are supplied with an extra solenoid to provide redundant protection and reduces accident potential.

### **Child Safeguard**

The **ECOSTREAM PLUS Water Treatment System** with Hot Water requires the Hot Water selection to be pressed until the Red-Light flashes, followed by the Main Dispense button for Hot Water and defaults back to the Cold selection after 3 seconds of inactivity to prevent accidental dispensing of Hot Water.

### **In-Tank UV Purification**

Industry leading In-Tank UV Purification prevents the growth of biofilm within the Stainless Steel Cold Tank.

### **Auxiliary Port**

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

### **Energy Saver**

The **ECOSTREAM PLUS Water Treatment System** comes from the factory with Energy Saver active. For the Ecostream Plus to comply with Energy Star, the energy saver must come activated (ON) from the factory. When no buttons are pressed on the front user interface panel, the machine will automatically enter energy saver mode, and the heater to the hot tank will be turned OFF. When any one of the front buttons are pressed while the system is in energy saver mode, the Ecostream Plus will exit energy saver mode, and the hot tank will begin heating water. The hot water tank will be at set temperature within 10-minutes after exiting energy saver mode. Energy saver can be disabled by adjusting DIP switch #4, shown on Page 50 of this manual.

## CERTIFICATIONS

*Ecostream Plus Water Treatment Systems* have been tested and certified to rigorous NSF and UL Standards. We believe that performance testing and certifications validate **Waterlogic** as a world-leader in water treatment systems.

### Waterlogic Ecostream Plus Water Treatment System Certifications Include



#### UL399 – Certified Drinking Water Cooler

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

**Intertek**

CSA C22.2 No. 120 CSA Standard for Refrigeration



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



#### NSF/ANSI-61 – Certified Drinking Water System Components

#### NSF / ANSI 372 – Drinking Water System Components – Lead Content

#### CSA B483.1 - Drinking Water Treatment Systems

This System has been certified by IAPMO R&T to NSF/ANSI-61 – Certified Drinking Water System Components, NSF / ANSI 372 – Drinking Water System Components for low Lead Content, and CSA B483.1 - Drinking Water Treatment Systems.



#### Energy Star Certified

The *ECOSTREAM PLUS Water Treatment System*, has 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.

**Intertek**

### 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
<i>ECOSTREAM PLUS</i> Counter Top	<i>ECOSTREAM PLUS Counter Top</i> – Cold, Hot, Ambient	WL2200M
	F-2200-M-HCA-UT-SI-CTN	
	Serial Number Prefix: <b>JA2H321SI</b>	
<i>ECOSTREAM PLUS</i> Tower	<i>ECOSTREAM PLUS Tower</i> – Cold, Hot, Ambient	WL2200FS
	F-2200-FS-HCA-UT-SI-CTN	
	Serial Number Prefix: <b>JA1H321SI</b>	

## SPECIFICATIONS

ITEM	<u>ECOSTREAM PLUS Counter Top</u>	<u>ECOSTREAM PLUS Tower</u>
Water Connection	¼" Quick Connect	
Cold Water Temperature	Cold Water Temperature – Factory Set Point 5°C (41°F) Adjustable - 1.1° - 12.2°C (34° - 54° F.)	
Cold Tank Size	Tower: 4 Liters (1.1 Gallons) Counter Top: 2 Liters (.53 Gallons)	
Hot Water Temperature	85°C (185°F) Factory Set Point	
Hot Water Manual Reset Overload	97°C (206°F)	
Hot Tank Size	1.6 Liters (.42 Gallons)	
Recommended Service Pressure	40-60 psi (275-414 kPa) – Use Pressure Regulator	
Maximum Service Pressure	100 psi (689 kPa) – Use Pressure Regulator	
Rated Service Flow	1.89 Liters per Minute (0.5 gallons per minute)	
Environmental Temperature	2° - 37°C (35° - 100°F)	
UV Lamp	4 Watts	8 Watts
Heater	500 W	
Refrigerant Gas Compressor: CO-0020-L000	R134a, 43g, 1.52 ounces	R134a, 53g, 1.87 ounces
Refrigerant Gas Compressor: 10-2200(CO-9001A)	R134a, 40g, 1.41 ounces	R134a, 65g, 2.29 ounces
R134a Pressures	High (230 psi), Low (90 psi)	



## SHIPPING SPECIFICATIONS

<u>ITEM</u>	<u>Counter Top</u>	<u>Tower</u>
Width/Depth/Height	34cm x 37cm x 45cm 13.5" x 14.5" x 17.75" #	34cm x 41cm x 103cm 13.5" x 14.5 x 40.5"
Weight (dry)	19.5 kg (42 pounds)	26.5 kg (58 pounds)

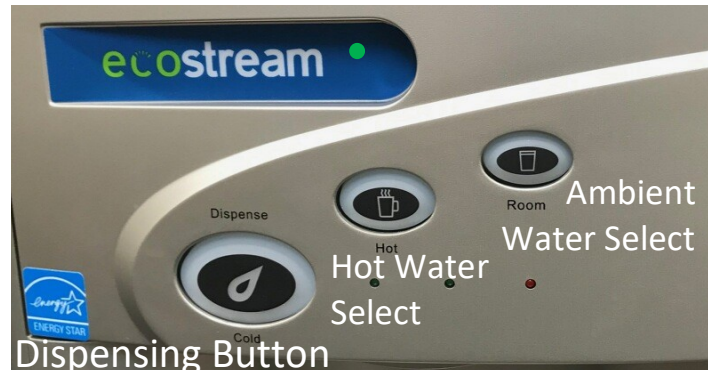
#Counter Top is 17.75 in. tall and may not fit between countertops and cabinets - Check installation to ensure adequate clearance.



## ELECTRICAL SPECIFICATIONS

<u>ELECTRICAL SUPPLY</u>	<u>120V/60Hz, 1PH</u>	<u>15 Amp Service</u>
<u>COMPONENT</u>	<u>POWER (approximate)</u>	<u>AMP DRAW (approximate)</u>
Heater	504	4.2 Amps
Compressor	216	1.8 Amps
UV Lamp System	18	0.15 Amps
<b>ECOSTREAM PLUS TOTAL</b>	<b>738</b>	<b>6.15 Amps</b>

## OPERATING INSTRUCTIONS



The above picture shows front user interface (UI) and control panel for the **ECOSTREAM PLUS Water Treatment System**.

For Cold Water: Press Dispensing button.

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

For Ambient Water: Press Room 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:** The Hot selection indication light will turn red when pressed, and the Dispensing button will flash red when Hot Water dispense is selected. The Room selection indication light will turn green, and the Dispensing button will flash green when Room water dispense is selected.

## **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](http://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](http://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**  
11710 Stonegate Circle  
Omaha, NE 68164

**Tel:** (800) 288-1891  
**Website:** [waterlogic.us](http://waterlogic.us)

## SERVICE REQUIREMENTS

**⚠ WARNING!** *Read and understand the contents of this manual before attempting to service the ECOSTREAM PLUS 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.

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

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

**NOTE:** When replacing the UV Lamp Assembly, the UV Lamp wiring harness must also be replaced.

**NOTE:** The Glow Starter shown to the right may appear blackened which is normal.



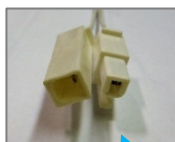
Glow Starter

**UV Lamp Assembly with Glow Starter** Part #'s:

- 4-Watt Bulb 12-2350 (CT-2084) used in countertop model
- 8-Watt Bulb 10-2350 (CT-2083) used in Tower model



Glow Starter



UV Lamp Connectors

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

**⚠ CAUTION! UV 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 sleeve 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 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. Inspect the Quartz Sleeve O-ring for wear or damage and replace as necessary.
5. Ensure there is adequate (minimum of 2") clearance around the **ECOSTREAM PLUS Water Treatment System** and clean the condenser grill and compressor fan to provide efficient cooling system operation.
6. Sanitize the cold tank per instructions in the pre-installation procedures.

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

7. Clean and sanitize external surfaces of the **ECOSTREAM PLUS Water Treatment System**. Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.
8. Remove and clean the Faucet. Replace as needed.
9. Descale Hot Tank Annually, or as needed.

## LG COMPRESSOR

\*Parts List in this manual updated to reflect these changes.

**LG Compressor 120V R134A 1/8HP CSB035LJCM with external start/run capacitor.**

### LG Compressor with External Start/Run Capacitor



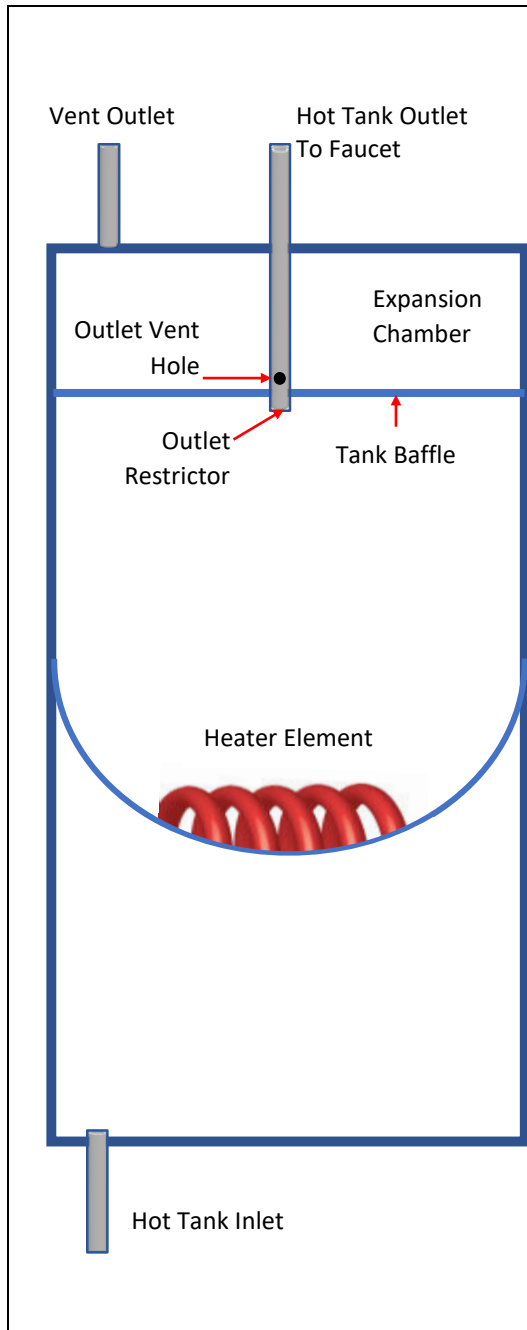
LG CSB035 LJCM Compressor

**External Capacitor**

### **LG CSB035LJCM 120V R134A 1/8HP Compressor Repair Parts**

Part # CO-0017-L00-00 LG Compressor 120V CSB035LJCM-PTC Relay  
 Part # CO-0018-L00-00 LG Compressor 120V CSB035LJCM-Overload Protector  
 Part # CO-0019-L00-00 LG Compressor 120V CSB035LJCM-Capacitor

## 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.



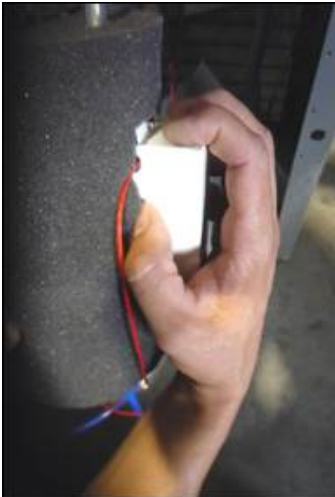
Expansion of water as it is heated in the reservoir will push the water out the faucet when the outlet tube vent hole becomes plugged with debris or scale.

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

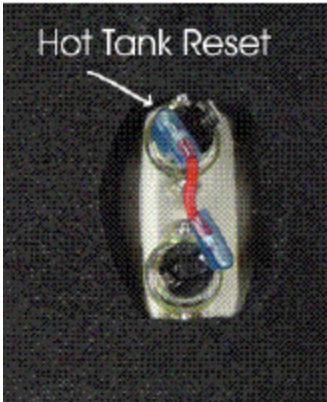

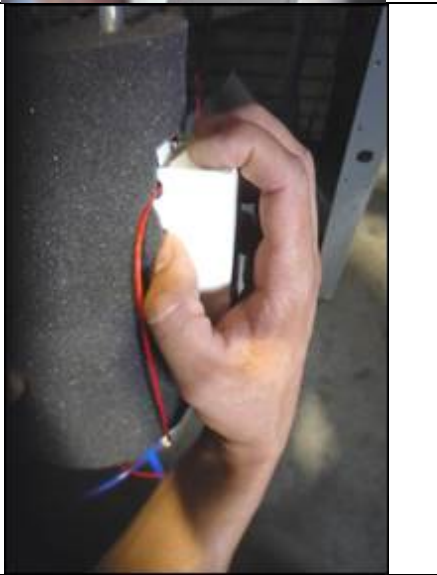
It is critical to descale the Hot Tank through the vent line and outlet line on a regular basis to prevent this problem.

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

## RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1.	<p>Red Heater and Compressor Switch must be in the OFF position</p> <p><i>O=OFF</i></p>	
2.	<p>Unplug the Power Cord from rear of <b>ECOSTREAM PLUS Water Treatment System</b>.</p>	
3.	<p>Tower Model: Remove the <u>Lower Front Panel</u> by removing the Phillips Head Screws underneath the Lower Front Panel.</p> <p>Counter Top Model: Remove the <u>Side Panel</u> by removing Phillips Head Screws from Side Panel.</p>	
4.	<p>Locate the protective metal box on the rear of the Hot Tank.</p> <p>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.</p>	
5.	<p>Reach up behind the Hot Tank and take hold of the Protective Metal Box covering the Thermostat and Overload on the Hot Tank.</p> <p>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.</p> <p>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.</p> <p><i>For demonstrative purposes, photos below have lowered the Hot Tank from the unit.</i></p>	



6.	<p>Press the reset button</p>  <p>The image shows a small, rectangular, light-colored button with a blue and red reset button in the center. An arrow points to the button. The text 'Hot Tank Reset' is printed above the button.</p>	 <p>A close-up photograph showing a person's hand using a small tool to press the reset button on the hot tank.</p>
7.	<p>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.</p>	 <p>A close-up photograph showing a person's hand depressing the top flap of the metal box to reattach it to the hot tank.</p>
8.	<p>Replace Panel on unit using Phillips head screws.</p>	
9.	<p>Plug in the Power Cord.</p>	
10	<p>Make sure the Hot and Cold Tanks are filled with water BEFORE turning on the Red Heater and Compressor Switch.</p> <p>Verify the cooler is fully operational before installing it at the customers' site.</p>	

## **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 **ECOSTREAM PLUS Water Treatment System'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.*

**⚠ CAUTION!** **STAINLESS STEEL TANK DESCALING.**  
*The Hot Tank is made from stainless steel. Ensure descaling solution is compatible with stainless and always flush the **ECOSTREAM PLUS Water Treatment System** 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 **ECOSTREAM PLUS 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 ***ECOSTREAM PLUS Water Treatment System***.
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 the ***ECOSTREAM PLUS Water Treatment System*** is performing to the customer's satisfaction.

**⚠ WARNING! HOT WATER HAZARD.** The ***ECOSTREAM PLUS Water Treatment System*** Produces Hot Water and Steam. Always use insulated and chemically compatible containers and let ***ECOSTREAM PLUS Water Treatment System*** cool down before draining the hot tank to avoid injury.

**⚠ CAUTION! MUST REPLACE HOT TANK EVERY 3-5 YEARS DEPENDING ON USAGE**  
*The Hot Tank and its controls must be replaced a minimum of every three to five years depending on usage 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.

## REPLACEMENT COMPONENTS (CONSUMABLES)

Component	WLCP Part No.	Frequency of Replacement
UV Light, 4 Watts Assembly <b>Counter Top</b>	12-2350	Every 12 months, or as required CT-2030-I00-00
UV Light, 8 Watts Assembly <b>Tower</b>	10-2350	Every 12 months, or as required CT-2001-I00-00
Hot Tank 1.6 Liter (.42 Gallons) 87°C (189°F) - <b>Counter Top</b>	12-1406	Replace every 3-5 years depending on usage HT-3018-A
Hot Tank 1.6 Liter (.42 Gallons) 87°C (189°F) - <b>Tower</b>	12-1405	Replace every 3-5 years depending on usage HT-3018
GAC Filter - 10" Carbon Activated Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0038-WLT</i>	FT-0035	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0035-IL-WLT
Carbon Block - 10" CBC 1 Micron Lead and Cyst Reduction Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0064-WLT</i>	FT-0063	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0063-IL-WLT
Sediment Filter - 10" Sediment 20 Micron Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0055-WLT</i>	FT-0053	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0053-IL-WLT

**⚠ CAUTION!** 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

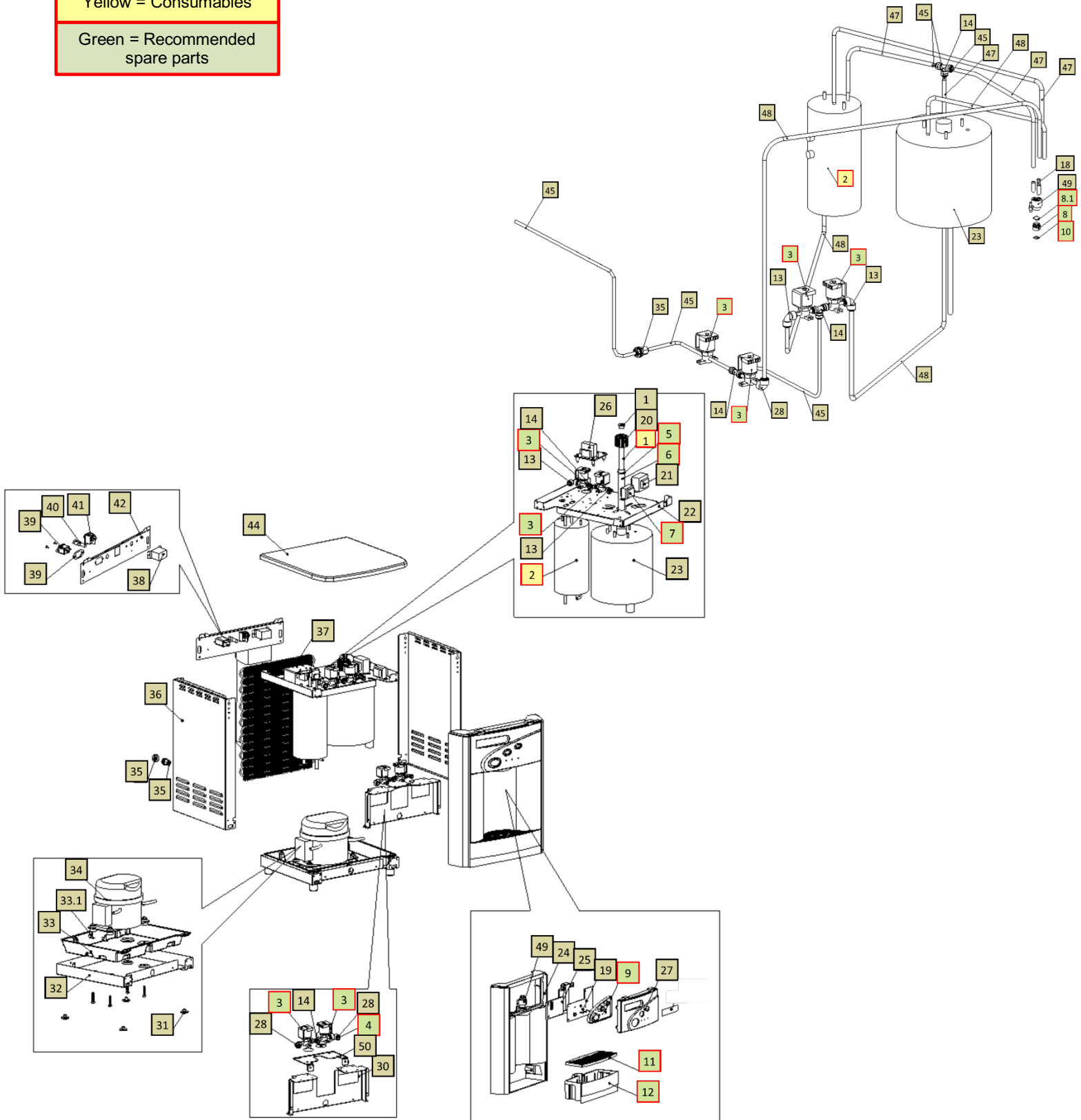
### End of Life

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.

## ECOSTREAM PLUS COUNTER TOP DRAWING AND PARTS LIST






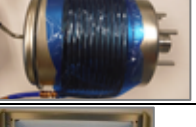

Wetted Drawing

Yellow = Consumables  
Green = Recommended spare parts



No	WLCP Part No.	Description	Part No	Stocked?	
<b>Consumables</b>					
1	12-2350	4W Lamp Assembly with Glow Starter	CT-2030-L0	Yes	
2	10-4029	Hot Tank 1.6 Liter (.42 Gallons) 87°C (189°F) – Counter Top	HT-3024-DP	Yes	
Optional	FT-0035	GAC Filter - 10" Carbon Activated Inline Filter - <b>Optional</b> <i>Filter Element PN FT-0038-WLT</i>	FT-0035-IL-WLT	Yes	
Optional	FT-0063	Carbon Block - 10" CBC 1-Micron Lead and Cyst Reduction Inline Filter <b>Optional</b> <i>Filter Element PN FT-0064-WLT</i>	FT-0063-IL-WLT	Yes	
Optional	FT-0053	Sediment Filter - 10" Sediment 20 Micron Inline Filter <b>Optional</b> <i>Filter Element PN FT-0055-WLT</i>	FT-0053-IL-WLT	Yes	
<b>Recommended Spare Parts</b>					
2.1	12-1360	Overload with Manual Reset - 97°C (206°F) <i>Recommend stocking 2 each per every 10 units purchased</i>	HT-3012	Yes	
2.2	12-1303	Hot Tank Thermostat - 85°C (185°F) <i>Recommend stocking 2 each per every 10 units purchased</i>	HT-3013A	Yes	
2.3	12-6900	Thermostat and Overload Metal Cover <i>Recommend stocking 2 each per every 10 units purchased</i>	ST-8290	Yes	
3		MS DC Solenoid Valve SWV24-01	PU-0017-P00-00	Yes	
4	CU-0001	Solenoid Cushion	CU-0001	Yes	

5	10-2500	Black O-Ring for Quartz Sleeve	CT-2006	Yes	
6	14-1051	Quartz Sleeve for 4W Lamp <i>Recommend stocking 1 each per every 10 units purchased</i>	CT-2026	Yes	
7		UV Lamp Ballast 120V 60Hz 4W	EN-0068-L00-00	Yes	
8	PL-1013	Faucet Nipple – Blue with Screen <i>Recommend stocking 2 each per every 10 units purchased</i>	PL-1013	Yes	
8.1	10-2600	Natural Faucet O-Ring – Silicon White <i>Recommend stocking 2 each per every 10 units purchased</i>	CT-2007	Yes	
9	12-5220	Silicon Button Key Mat <i>Recommend stocking 5 each per every 10 units purchased</i>	PL-1206-A	Yes	
10	PL-1013-G	Stainless Steel Gauze for Faucet	PL-1013-G	Yes	
11	12-5230	Drip Tray Grill – Charcoal <i>Recommend stocking 4 each per every 10 units purchased</i>	PL-1152-A	Yes	
12		Canteen WL2200 Drip Tray Body – WL and BIO logo	PL-0269-L00-00	Yes	
Not Shown	01-2076	ScaleKleen <i>Recommend stocking 2 each per every 10 units purchased</i>	NA	Yes	
<b>Remaining Parts</b>					
13	Purchase from John Guest	JG Reducing Elbow Connector 5/16" * 1/4" (PI211008S)	PU-4007	No	

14	Purchase from John Guest	JG Equal Tee Connector ¼” (P10208S)	PU-4011	No	
15	19-1053	JG Equal Straight Connector ¼”	PU-4010-DP	Yes	
16	EN-6059-A	PCB Stand-off Pin (one side)	NA	No	
17	10-3017	PCB Stand-off Pin	EN-6059	Yes	
18	10-2701	Stainless Steel Insert for Faucet	PL-1088	Yes	
19		Canteen WL2200 Display PCB	EN-0109-L00-00	Yes	
20	12-1210	UV Lamp Retaining Threaded Nut	PL-1128	Yes	
21	12-3117	Power Transformer 120V	EL-5003-A	Yes	
22	12-3165	WL2000 Mini Upper Base	ST-8150	Yes	
23	12-3110	2L UV Cold Tank Assembly	CT-2060	Yes	
24	12-8050	Front Upper Drip Tray Insert Panel	PL-1146	Yes	



24.1	12-0001	Hot Water Caution Label – <i>adhere to Front Upper Drip Tray Insert Panel.</i>	LP-7169	Yes	
25	12-5285	PCB Cover	PL-1303	Yes	
26	12-5315	Canteen WL	EN-6102-A	Yes	
27		Canteen WL2200 HCA Front Hatch Panel	PL-0270- L00-00	Yes	
28	Purchase from John Guest	JG Equal Elbow Connector ¼” (PI0308S)	PU-4008	No	
30	12-3175	Filter Bracket	ST-8152	Yes	
31	12-3150	Unit Rubber Feet	PL-1251- CN	Yes	
32	12-3170	WL2000 Mini Down Base	ST-8151	Yes	
33	12-3155	Leak Tray	PL-1294	Yes	
33.1	12-3180	Leak Containment Tray Clip (sensor 0.5mm)	ST-8207- CN	Yes	
33.2	19-1007	Leak Sensor Wire	EL-5076- KR	No	

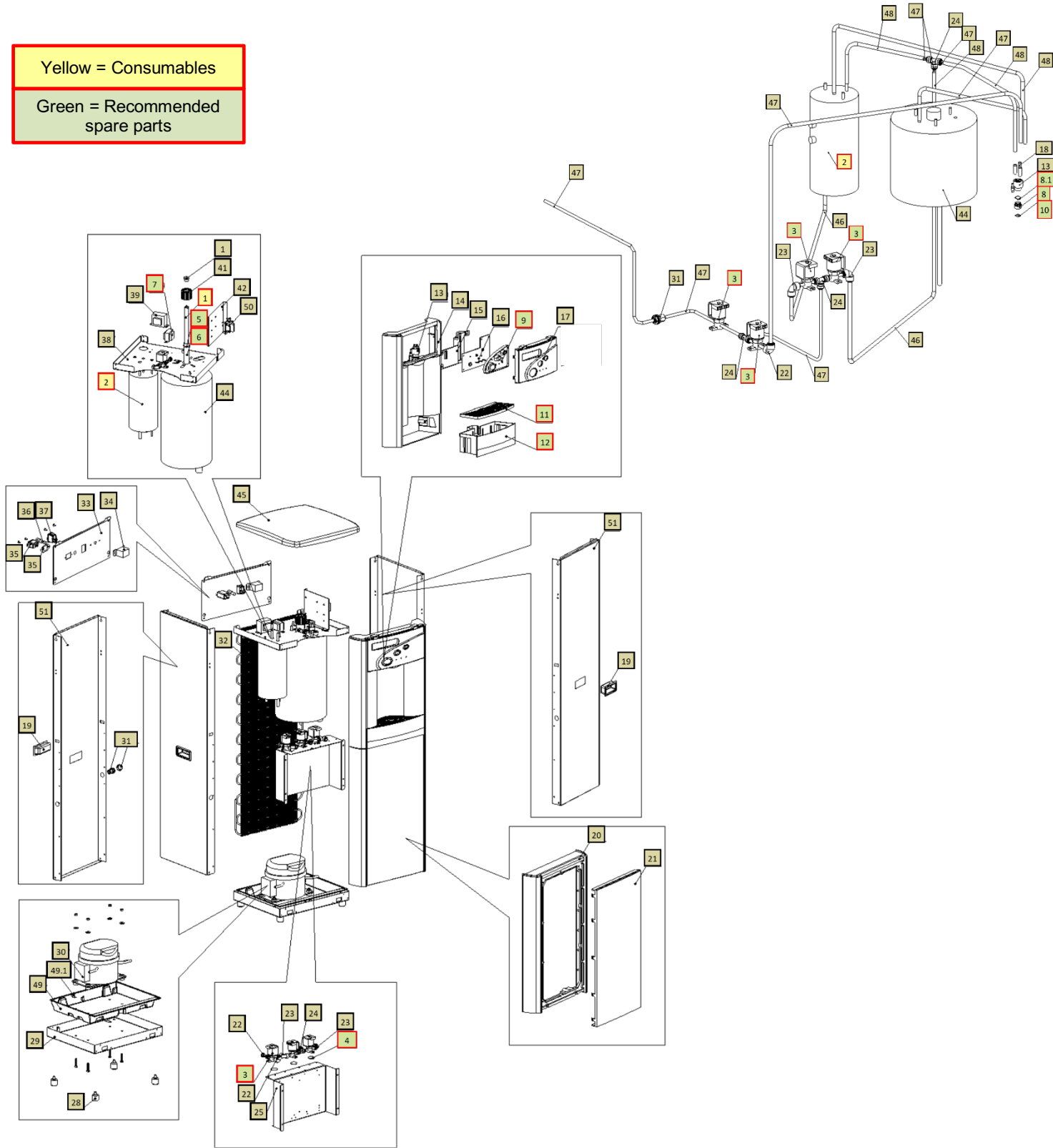
34		LG Compressor (R134a 1/8HP) 120V/60Hz	CO-0020- L00-00	Yes	
34.1		Compressor Starter Relay	CO-0017- L00-00	Yes	
34.2		Compressor Overload	CO-0018- L00-00	Yes	
34.3	12-1001	Filter Dryer	CO-9008	Yes	
35	10-3067	Bulkhead Union ¼" x ¼" John Guest P/N PI1208S	PU-4028	Yes	
36	12-5290	WL2000 Mini Silver Side Panel	ST-8148	Yes	
37	12-3100	Wire Condenser	CO-9031	Special Order	
38	19-1069	Cold Tank Thermostat	CT-2070- A	Yes	
38.1	LP-0326	Cold Thermostat Cover Label	LP-0326- L00-00	Yes	
39		Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	EL-0061- L00-00	Yes	
40	10-3014	Fuse Holder and Fuse 120V / 15A with One Wire	EL-5053	Yes	
40.1	10-3013	Fuse 120V / 15A	EL-5010	Yes	

**ECOSTREAM PLUS**

41	12-5600	Red Compressor and Heater Switch	EL-5019-A	Yes	 <b>Wetted Drawing</b>
42	12-5674	WL2000 Mini Silver Back Panel	ST-8253	Yes	
Not Shown	ST-0049-L00-00	Metal Cover (Under Top Cover)	ST-0049-L00-00	Yes	
44	12-5265	WL2000 BOA Top Cover Silver	PL-1249-C	Yes	
45	19-1054	JG LLD PE Tube - Blue O.D.1/4" John Guest P/N PE-08-BI-1000F-B	PU-4031	No	
46	Purchase from John Guest	JG 1/4" Stopper PI0808S (used with Bulkhead Union 1/4" x 1/4" John Guest P/N PI1208S)	PU-4086	No	
47	10-7040	Silicon Tube 5/16" for Hot Water	PU-4064	Yes	
48	10-3062	JG LLDPE Tube - Blue 8mm John Guest P/N PE-0806-100M-B	PU-4014	Yes	
49	PL-1212-CN	Faucet HCA 3-way	PL-1212-CN	Yes	
Not Shown	10-3099	3" Filter Clip	PU-4024	Yes	
Not Shown	10-3098	2" Filter Clip for In-Line Filter	PU-4025	Yes	
Not Shown	10-3007	Power Cord 120V – 1840 mm	EL-5001-B	Yes	
50		WL2000 Mini firewall Solenoid Valve Fixing Bracket	ST-8297	Yes	

## TOWER DRAWING AND PARTS LIST

Yellow = Consumables
Green = Recommended spare parts



No	WLCP Part No.	Description	Part No	Cold Only	Hot & Cold	Stocked?	
<b>Consumables</b>							
1	10-2350	8W UV Lamp Assembly with Glow starter	CT-2001-100-00	X	X	Yes	
2	10-4029	Hot Tank Stainless Steel 1.6 Liter (87°C - 189°F)	HT-3024-DP-LIN		X	Yes	
Option	FT-0035	GAC Filter - 10" Carbon Activated Inline Filter - <b>Optional</b> <i>Filter Element PN FT-0038-WLT</i>	FT-0035-IL-WLT	X	X	Yes	
Option	FT-0063	Carbon Block - 10" CBC 1-Micron Lead and Cyst Reduction Inline Filter <b>Optional</b> <i>Filter Element PN FT-0064-WLT</i>	FT-0063-IL-WLT	X	X	Yes	
Option	FT-0053	Sediment Filter - 10" Sediment 20 Micron Inline Filter <b>Optional</b> <i>Filter Element PN FT-0055-WLT</i>	FT-0053-IL-WLT	X	X	Yes	
<b>Recommended Spare Parts</b>							
2.1	12-1360	Overload with Manual Reset - 97°C (206°F) <i>Recommend stocking 2 each per every 10 units purchased</i>	HT-3012		X	Yes	
2.2	12-1303	Hot Tank Thermostat - 85°C (185°F) <i>Recommend stocking 2 each per every 10 units purchased</i>	HT-3013A		X	Yes	
2.3	12-6900	Hot Tank Supplemental Steel Enclosure <i>Recommend stocking 2 each per every 10 units ordered</i>	ST-8290		X	Yes	
3		MS DC Solenoid Valve SWV24-01	PU-0017-L00-00	X	X	Yes	

4	CU-0001	Solenoid Cushion <i>Recommend stocking 2 each per every 10 units purchased</i>	CU-0001	X	X	Yes	
5	10-2500	Black O-Ring for Quartz Sleeve <i>Recommend stocking 1 each per every 10 units ordered</i>	CT-2006	X	X	Yes	
6	10-1400	Quartz Sleeve for 8W Lamp <i>Recommend stocking 1 each per every 10 units ordered</i>	CT-2002	X	X	Yes	
7	10-3010	UV Lamp Ballast 120V 60Hz 8W	EL-5006-A CN	X	X	Yes	
8	PL-1013	Blue Faucet Nipple	PL-1013	X	X	Yes	
8.1	10-2600	White Silicon Faucet O-Ring <i>Recommend stocking 2 each per every 10 units ordered</i>	CT-2007	X	X	Yes	
9	12-5220	Silicone Button Key Mat AFL HCA	PL-1206-A		X	Yes	
10	PL-1013-G	Stainless Steel Gauze for Faucet	PL-1013-G	X	X	Yes	
11	12-5230	WL2200 Silver Drip Tray Grill	PL-1152-A	X	X	Yes	
12		Canteen wl2200 Drip Tray Body – WL & Bio logo	PL-0269-L00-00	X	X	Yes	
Not Shown	01-2076	ScaleKleen <i>Recommend stocking 5 each per every 10 units ordered</i>	NA	X	X	Yes	

**Remaining Parts**




13	PL-1212-CN	Faucet HCA Assembly	PL-1212-CN		X	Yes	
14	12-8050	Front Panel for Drip Tray Insert <i>when purchasing, also request Hot Water Caution Label LP-7169 / 12-0001 to adhere to front of this panel.</i>	PL-1146	X	X	Yes	
14.1	12-0001	Hot Water Caution Label Adhere to Front Panel for Drip Tray Insert	LP-7169		X	Yes	
15	12-5285	AFL PCB Cover	PL-1303	X	X	Yes	
16		Canteen WL2200 Display PCB	EN-0109-L00-00	X	X	Yes	
17		Canteen WL2200 HCA Front Hatch Panel	PL-0270-L00-00	X	X	Yes	
18	10-2701	Stainless Steel Insert for Faucet	PL-1088	X	X	Yes	
19	12-8058	Side Panel Plastic Handle	PL-1123	X	X	Yes	
20	12-8052	Front Lower Panel	PL-1148	X	X	Yes	
21		Front Lower Insert Panel	PL-1188-A	X	X	Yes	
22	Purchase from John Guest	JG Equal Elbow Connector 1/4" (PI0308S)	PU-4008	X	X	No	

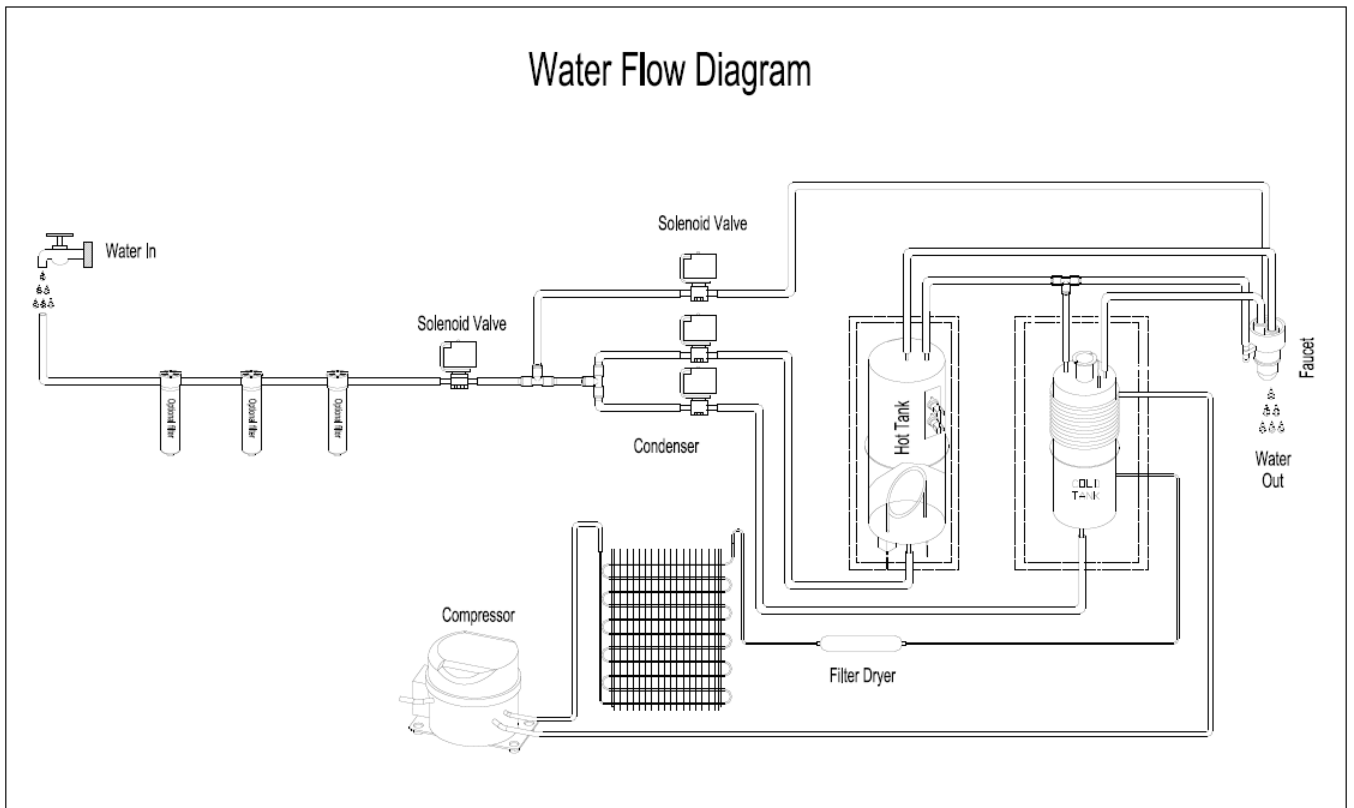
23	Purchase from John Guest	JG Reducing Elbow Connector 5/16" * 1/4" (PI211008S)	PU-4007	X	X	No	
24	Purchase from John Guest	JG Equal Tee Connector 1/4" (P10208S)	PU-4011	X	X	No	
25	12-8006	Filter Bracket	ST-8138	X	X	Yes	
26	10-3099	3" Filter Clip	PU-4024	X	X	Yes	
27	10-3098	2" Filter Clip for In-Line Filter	PU-4025	X	X	Yes	
28	11-2065	Unit Control Rubber Feet	ST-8167CN	X	X	Yes	
29	12-8004	WL2000 Down Base	ST-8137	X	X	Yes	
30.1		LG Compressor 120V R134A CSB035LJCM	CO-0020-L00-00	X	X	Yes	
30.2		Compressor Capacitor	CO-0019-L00-00	X	X	Yes	
30.3		Capacitor Bracket	ST-0216-L00-00	X	X	Yes	
30.4		PTC Relay	CO-0017-L00-00	X	X	Yes	
30.5		Overload Protector	CO-0018-L00-00	X	X	Yes	


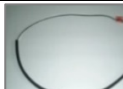




30.6	12-1001	Filter Dryer	CO-9008	X	X	Yes	
31	10-3067	Bulkhead Union ¼" x ¼" John Guest P/N PI1208S	PU-4028	X	X	Yes	
32	12-8102	Wire Condenser	CO-9027	X	X	Special Order	
33	12-8002	Back Panel Silver	ST-8135	X	X	No	
34	12-1101	Cold Tank Thermostat	CT-2016	X	X	Yes	
34.1	LP-0326	Cold Thermostat Cover Label	PL-0326-L00-00	X	X	Yes	
35		Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	EL-0061-L00-00	X	X	Yes	
36	10-3014	Fuse Holder and Fuse 120V / 15A with One Wire	EL-5053	X	X	Yes	
36.1	10-3013	Fuse 120V / 15A	EL-5010	X	X	Yes	
37	12-5600	Red Compressor and Heater Switch	EL-5019-A	X	X	Yes	
38	12-8003	Upper Shelf	ST-8136-R2	X	X	Yes	
39	12-3117	Power Transformer 120V	EL-5003-A	X	X	Yes	
Not Shown		4W UV Fixing Rubber <i>Included in UV Lamp Assembly</i>	PL-0235-L00-00	X	X	Yes	

**REAM**  
**PL**  
**COUNT** **TOP**  
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**DIAGRAM**

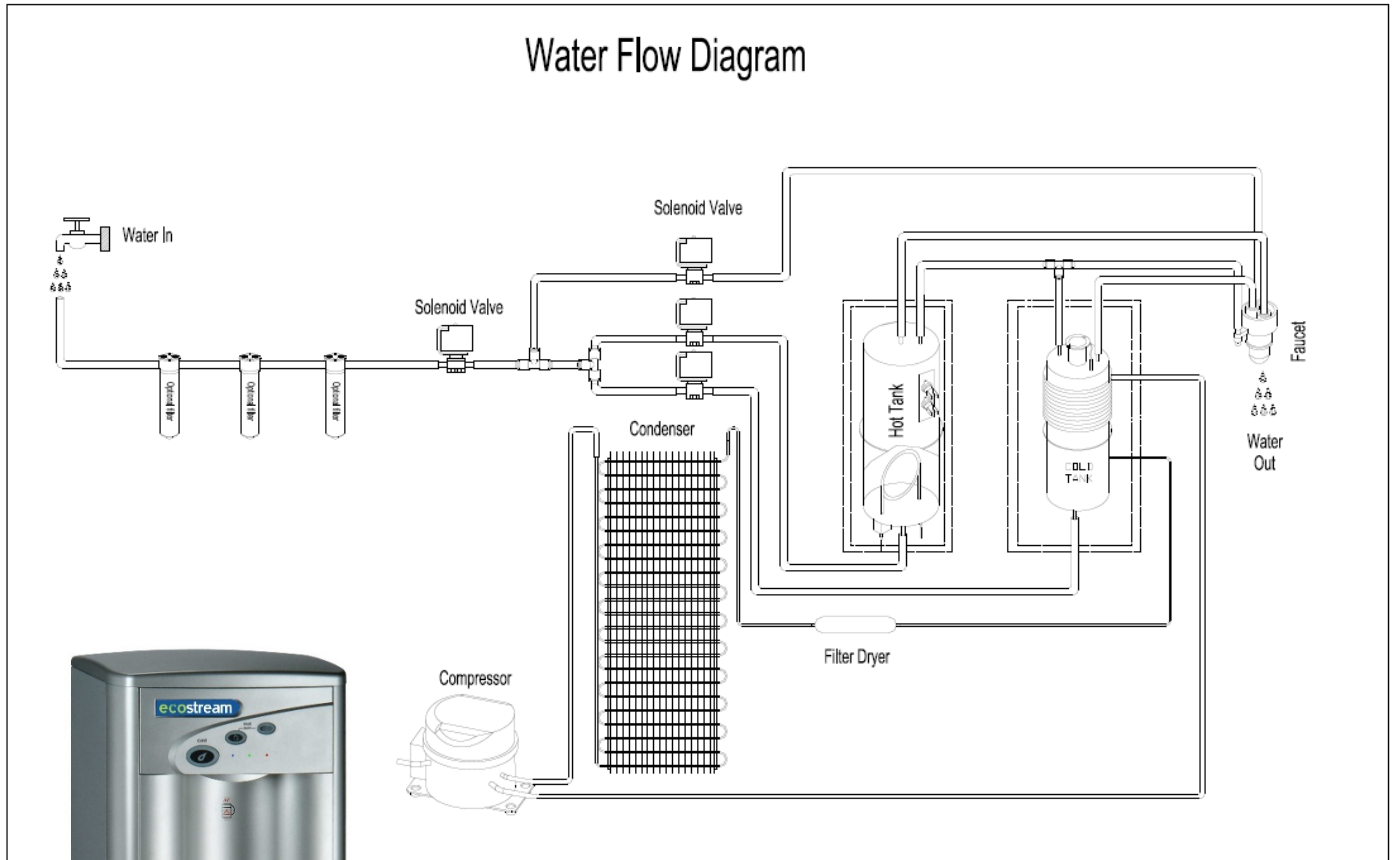
41	12-1210	UV Lamp Retaining Threaded Nut	PL-1128	X	X	Yes	
42	12-5245	Main PCB Bracket	ST-8165-CN	X	X	Yes	
Not							



49.1	12-3180	Leak Containment Tray Clip (sensor 0.5mm)	ST-8207-CN	X	X	Yes	
49.2	NA	Leak Sensor Wire	EL-5074-A	X	X	Yes	
50	12-5315	WL2200 Main PCB HCA & CA -w/ leak detection	EN-6102-A	X	X	Yes	
51	12-5200	WL2000 FS Side Panel L/R Silver Handle Hole	ST-8249	X	X	Yes	



## ECOSTREAM PLUS TOWER WATER FLOW DIAGRAM



## 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.

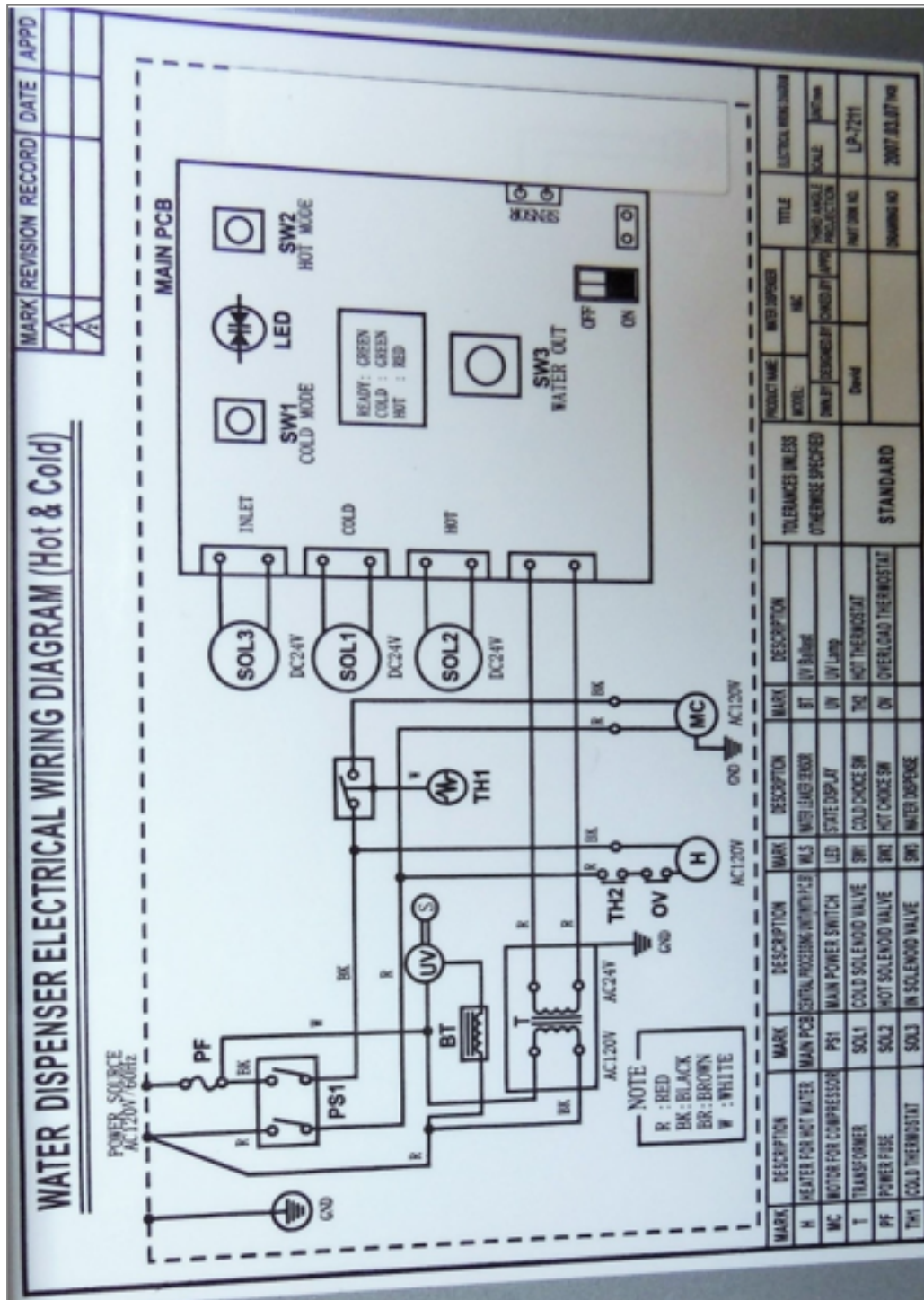
Do not adjust past the “Max Cold” position at 3:00 position to avoid freezing the cold tank.



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

## ECOSTREAM PLUS WATER TREATMENT SYSTEM ELECTRICAL DIAGRAM

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



## **PRE-INSTALLATION PROCEDURES**



### **DANGER! ELECTRICAL SHOCK HAZARD.**

*Only qualified personnel who have read and understand this entire manual should attempt to install, or service this **ECOSTREAM PLUS Water Treatment System**, 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 contaminants.*



### **CAUTION! 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 Gage
  - 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
1. Unpack the **Waterlogic ECOSTREAM PLUS Water Treatment System** and check exterior for damage.

### **Flush Filters**



### **CAUTION! FILTER FLUSH REQUIRED.**

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

*In order for our filters to perform as represented and to provide the best quality water possible, it is essential that filters be replaced periodically. The frequency of filter changes depends upon your water quality and your water usage. For example, if there is a lot of*

*sediment and/or particles in your water, then you will have to change your filters more frequently than a location with little to no sediment. Be sure to replace your filters whenever you notice a decline in the performance, whether it is a drop in flow rate and/or pressure or an unusual taste in the water.*

2. Flush thoroughly per filter manufacturers' recommendation with fresh water to drain.
3. 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.

### 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).*

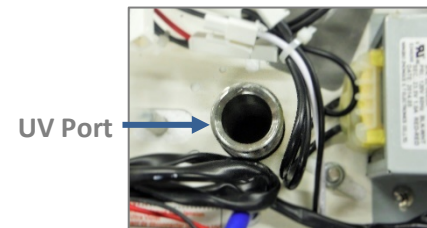
4. Disconnect the UV Lamp wiring harness and carefully remove the UV Lamp from the quartz sleeve.

**⚠ CAUTION! UV SYSTEM IS FRAGILE.** *Never handle the UV System with bare hands. UV Lamp and Quartz Sleeve must be free of oils and contaminants to ensure proper operation.*

5. Unscrew Cold Tank/Quartz Sleeve retaining cap and remove the Quartz Sleeve. This will require Top Cover to be removed to access properly and facilitate removal.



Retaining Cap



6. Mix ½ gallon of sanitizer per directions or use Bleach Solution (1 teaspoon = 1/6 oz. = 5 ml = ½ cap full) of household bleach (Sodium Hypochlorite 5 - 10% Concentration) with 1/2 gallon of water. Always ensure sanitizer is compatible with stainless steel and acetyl plastic.



7. Pour sanitizer solution through UV Port into Cold Tank with a funnel or spout. You may add concentrated sanitizer (½ cap bleach) directly into empty cold tank instead of premixing.
8. Inspect and clean Quartz Sleeve and O-ring.
9. Reinstall the Quartz Sleeve and Quartz Sleeve Retaining Nut. Tighten firmly to ensure proper seal. Over-tightening can cause damage.

**⚠ CAUTION! DO NOT INSTALL THE UV LAMP AT THIS TIME**

*The UV will interact with the sanitizer and could potentially cause taste.*

10. Connect 40-60 psi regulated, potable water supply to the water inlet bulkhead fitting located on the back of the **ECOSTREAM PLUS Water Treatment System**. Turn on water supply and check for leaks.

**⚠ DANGER! ELECTRICAL SHOCK HAZARD.**

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

11. Connect **ECOSTREAM PLUS Water Treatment System** to power.

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

*Red Heater and Compressor Power Switch must be in the O=OFF position while the hot tank is empty. Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty hot tank.*



### Fill the Cold Circuit with Sanitizer

12. 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.

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

### Flushing the Sanitizer from the Machine

13. Place a pitcher, catch basin, or other container under the faucet of the **ECOSTREAM PLUS Water Treatment System**.
14. 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.

15. Once the sanitizer odor/taste has been flushed out of the cold side of the machine the sanitization process for the Cold Circuit is complete.

### Fill the Hot Tank

16. 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.

**⚠ WARNING! HOT CIRCUIT IS NOT SANITIZED.**

*Water in the hot circuit is not sanitary until the temperature exceeds 77°C (171°F) for at least 5 minutes.*

### 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.*

17. Reinstall the UV Lamp and connect the wiring.
18. Dim or shield the overhead lights and peer into the machine, on top of the Cold Tank, at the UV connector and retaining cap. The blue glow indicates that the lamp is lit.

### Compressor Test

19. Switch Red Compressor / Heater to *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 **ECOSTREAM PLUS Water Treatment System** is warm, the refrigeration system is working.



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

### Heater Test

21. 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 85°C (185°F). Dispense a cup of hot water to ensure the temperature/odor/taste is acceptable.

**⚠ WARNING! HOT WATER.** *Unit produces Hot Water up to 87°C (188°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.*

## ECOSTREAM PLUS COUNTER TOP DRAINING INSTRUCTIONS

### Draining Notes

Drain the *ECOSTREAM PLUS Water Treatment System* for transportation.

**⚠ WARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.**  
*The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbial growth).*

Prior to draining the hot tank, turn off the Red Heater and Compressor Power Switch (O=OFF), and dispense 2 liters of hot water from the machine. As hot water is dispensed from the faucet of the *ECOSTREAM PLUS 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

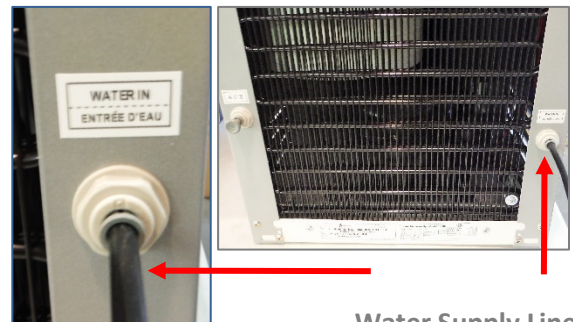
1. Turn off the Red Heater and Compressor Power Switch (O-OFF) to disable the heater and compressor.
2. Dispense 2 liters (1/2 Gallon) of water through the hot tank to cool the water temperature in the hot tank and avoid burns.



**⚠ WARNING! HOT WATER.** *The ECOSTREAM PLUS Water Treatment System produces Hot Water up to 87°C (188°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 *ECOSTREAM PLUS Water Treatment System* 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 the *ECOSTREAM PLUS Water Treatment System*.
6. Depress Cold Water Dispense Button until all Cold Water has drained from the *ECOSTREAM PLUS Water Treatment System*.
7. Depress Hot Water Dispense Button until all Hot Water has drained from the *ECOSTREAM PLUS Water Treatment Machine*.



Water Supply Line

## ECOSTREAM PLUS TOWER DRAINING INSTRUCTIONS

### Draining Notes

Drain the *ECOSTREAM PLUS Water Treatment System* for transportation.

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

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

Prior to draining the Hot Tank, turn off the Red Heater and Compressor Power Switch (O=OFF), and dispense 2 liters of hot water from the machine. As hot water is dispensed from the faucet of the *ECOSTREAM PLUS 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 of water through the Hot Tank to cool the water temperature in the hot tank and avoid burns.



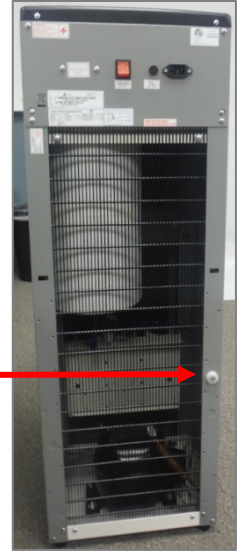
**⚠ WARNING! HOT WATER.** *The ECOSTREAM PLUS Water Treatment System produces Hot Water up to 87°C (188°F). Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

### Turn off Water Supply and Bleed Water Pressure

3. Isolate the *ECOSTREAM PLUS Water Treatment System* from feed water by turning off the supply.

4. Dispense cold still water to relieve any pressure built up in the system.
5. Insert approx. 3 inches of blue tubing into the Line Bulkhead fitting at back of the ***ECOSTREAM PLUS Water Treatment System*** to allow water to drain.
6. Depress Cold Water Dispense Button until all Cold Water has drained from the ***ECOSTREAM PLUS Water Treatment System***.
7. Depress Hot Water Dispense Button until all Hot Water has drained from the ***ECOSTREAM PLUS Water Treatment System***.

**Bulkhead Fitting**



## INSTALLATION PROCEDURES

### Safety and Installation Guidelines

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

- ⚠ WARNING! ELECTRICAL SHOCK HAZARD.** Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.
- ⚠ WARNING! IMPROPER SUPPLY OR CONNECTION CAN RESULT IN RISK OF SHOCK.** Connect to a 15 amp, 120V 60Hz properly grounded outlet (GFI is recommended). Ensure polarity is correct and always use a 3-prong outlet. Consult a qualified electrician if you have any questions.
- ⚠ WARNING! USE ONLY Waterlogic SUPPLIED POWER CORD.** Locate system within 5 feet of power supply. Never use an extension cord or adapter. Do not use a damaged power cord or plug. Keep power cord out of heavy traffic areas and away from heat sources. Do not, under any circumstances, remove ground prong or alter the power cord. Never pull the power plug from the outlet with a wet hand or allow the plug to get wet. Failure to use the supplied power cord will void UL Certification and Warranty.
- ⚠ CAUTION! INDOOR USE ONLY.** Never expose to direct sunlight, heat sources, or ambient air temperature above 38°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 80°F, require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.
- ⚠ CAUTION! USE A WATER PRESSURE REGULATOR.** **Waterlogic** will not be responsible for injury or damage caused by excessive water pressure. Operating pressure must be 40 psi to 60 psi. Be aware any of potential pressure surges caused by building/municipal pumping stations.
- ⚠ CAUTION! USE UV STABILIZED SUPPLY LINES.** Feed the unit with a potable ambient or cold-water supply only. Feed water over 100° F (37°C) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible.
- ⚠ WARNING! STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.** The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use to eliminate any potential microbiological contaminants

Pre-installation and sanitization procedures as prescribed in this manual must be performed before installing the **ECOSTREAM PLUS Water Treatment System**.

Always install indoors and place the **Waterlogic ECOSTREAM PLUS Water Treatment System** 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 **ECOSTREAM PLUS Water Treatment System**. **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 Heater and Compressor Power Switch is the *O=OFF* position.

**NOTE:** Switches have internal LED that illuminates when placed in *I=ON* position.



3. Connect the power cord to the back of the **Waterlogic ECOSTREAM PLUS Water Treatment System** 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 Heater and Compressor Power Switch must be in the *O=OFF* position while the Hot Tank is empty. Damage could occur within one minute and the 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.

**⚠ WARNING! 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 ECOSTREAM PLUS Water Treatment System** into its final operating position. Be sure that a minimum of 2" clearance is maintained around both sides and the back of the **ECOSTREAM PLUS Water Treatment System**.
8. This is important to allow proper airflow and heat exchange of refrigeration system.

9. Level ***ECOSTREAM PLUS Water Treatment System*** using the adjustable feet to level if necessary. Never install on incline.
10. Turn the Red Heater and Compressor Power Switch to *I=ON* position.
11. When the ***ECOSTREAM PLUS Water Treatment System*** has reached its Hot Temp Set Point, the heater will cycle off. When the ***ECOSTREAM PLUS Water Treatment System*** has reached its Cold Temp Set Point Temperature, the compressor will cycle off.
12. Once the ***ECOSTREAM PLUS Water Treatment System*** 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 ***ECOSTREAM PLUS Water Treatment System*** for any leaks. External Leak Protection is always recommended.





## FAULT CODE TROUBLESHOOTING INDEX

**Note About Energy Saver:** In order to qualify for Energy Star, this unit comes with the energy saver defaulted to ON. If no buttons are pressed on the front panel for 3 hours, the Ecostream Plus will enter sleep mode, and power to the heater will be shut down. **The cold water (compressor) will remain active/on 24/7.**

To exit sleep mode, one of the front panel buttons (Cold Dispense, Hot Select or Room Select). To disable Energy Saver Mode, see Page 50.



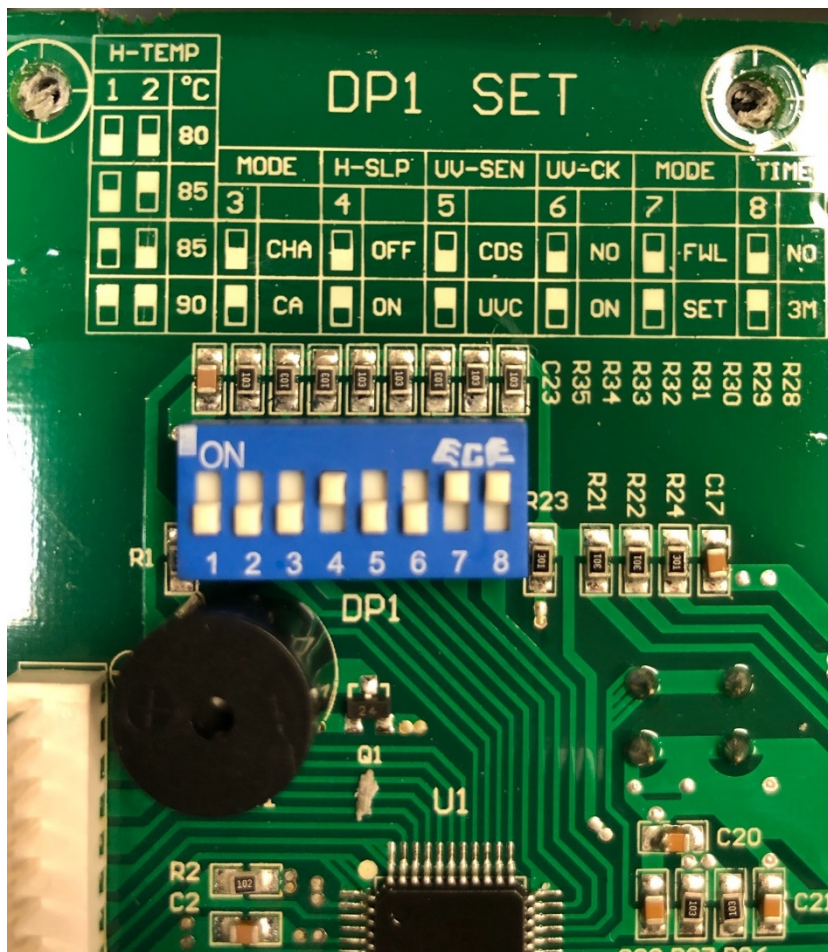
### c. LED Indication and configuration:

LED No	Color	Remarks
① LED 1	Green	<ul style="list-style-type: none"> <li>Power</li> <li>Always lit (ON)</li> </ul>
② LED 2	Green	<ul style="list-style-type: none"> <li>Energy Saver</li> <li>Green ON-When machine is normal working and not in Sleep mode (Not in Energy saver), and Hot water and control is normal.</li> <li>Green OFF-When machine is in Sleep mode (Energy saver mode) and hot water is not ready because heater is OFF.</li> <li>There is no indication for Heater ON/OFF status.</li> <li>Sleep mode ON/OFF can be selected by Dip switch on the PCB.</li> </ul>
③ LED 3	Red	<ul style="list-style-type: none"> <li>Leak Detection</li> <li>Normal (No leak detection), LED is OFF</li> <li>Blinks Red with alarm when leak is detected</li> </ul>

**To Disable the Energy Saver Mode:**

**NOTE: THIS CHANGE MUST BE MADE WITH THE POWER OFF OR THE POWER MUST BE CYCLED AFTER THE SETTING CHANGE. IF NOT DONE, THE CHANGE WILL NOT BE RECOGNIZED.**

**Note the DIP switches on the front display pcb (the one mounted to the back side of the front upper panel):**



**To disable the energy saver, DIP #4 must be switched from ON to OFF.**

## POWER TROUBLESHOOTING INDEX

1. Red Heater and Compressor Power Switch won't light
2. Red Power Switch is lit but No Hot and Cold Water
3. Compressor Runs but does Not Chill
4. Compressor is Not Running

### **1. Red Heater and Compressor Power Switch won't light and the Red LED on the Front won't light**

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 Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	Replace Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)
Defective Red Heater / Compressor Switch	Replace Red Heater / Compressor Switch



## 2. Red Power Switch is lit but There is No Hot or Cold Water

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 Hot and Cold – P/N EN-6085 WLCP PN 12-8103 Cold Only – P/N EN-6086 WLCP PN 12-8615
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. Refrigerant recharge required.

## 4. Compressor is Not Running

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

## **DISPENSING TROUBLESHOOTING INDEX**


1. Dispensing won't stop when not holding the Dispensing Button
2. Water does not dispense from unit
3. Steady Drip out of Faucet
4. Irregular / Intermittent Dispensing
5. Small amount of water periodically dispenses from faucet automatically
6. Low Flow of Water – Rated Service Flow is 1.89 Liters (0.5 gallons) per Minute
7. Hot Water Intermittently Forced Through the Faucet, or a Dual Stream Out of the Faucet
8. Hot Water coming out of both the Faucet and the Vent Hole
9. Hot Water Drip out of Faucet
10. Dispenses Hot and Cold Water at the same time
11. No Cold Water Available
12. Cold Water dispenses from Faucet and Vent Outlet Simultaneously
13. Dispense Buttons stick
14. Run-On Water continues to dispense out of faucet after releasing the dispense button

*Also includes related instruction for Hot Tank Descaling*

## 1. Dispensing Won't Stop when Not Holding the Dispensing Button

Possible Reason	Solution
<p>Too much water pressure. Recommend 40-60 psi for the <b>ECOSTREAM PLUS Water Treatment System</b> to operate properly.</p>	<p>The correct input water pressure is critical to the performance of the unit to allow solenoids to open.</p> <p>Check water pressure at the inlet bulkhead with a water pressure gauge.</p> <p>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".</p> <p>Adjust water pressure to 40-60 psi.</p>
<p>Bad Display PCB</p>	<p>Replace Front PCB            Hot and Cold – P/N EN-6085 WLCP PN 12-8103            Cold Only – P/N EN-6086 WLCP PN 12-8615</p>
<p>Debris in the Solenoid</p>	<p>Inspect Solenoid for debris and clean out as needed.</p>
<p>Dispensing Button Stuck</p>	<p>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.</p>

## 2. Water does not dispense from Unit

Possible Reason	Solution
<p>Too much water pressure. Recommend 40-60 psi for the <b>ECOSTREAM PLUS Water Treatment System</b> to operate properly.</p>	<p>The correct input water pressure is critical to the performance of the unit to allow solenoids to open.</p> <p>Check water pressure at the inlet bulkhead with a water pressure gauge.</p> <p>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”.</p> <p>Adjust water pressure to 40-60 psi.</p>
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 on unit is in the off position	<p>Turn Red Heater and Compressor switch on.  <i>I = ON</i></p> 
15 Amp Fuse Blown	Replace the 15 Amp Fuse as needed.
<p>Water is present in the bottom tray, causing the leak detection to trigger.</p> <p><i>*Leak Detection is on the Counter Top Model only.</i></p>	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.	<p>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.</p> <p>Remove the PCB to inspect the front of the board.</p>
Exhausted Filter	Replace filters as needed.

### 3. Steady Drip Out of Faucet

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

### 4. Irregular / Intermittent Dispensing

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for <b>ECOSTREAM PLUS Water Treatment System</b> to operate properly.	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.

### 5. 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 contaminate(s).



## 6. Low Flow of Water – Rated Service Flow is 1.89 Liters (0.5 gallons) per Minute

Possible Reason	Solution
Determine Flow of Water	Rated Flow Rate is 1.89 Liters (0.5 gallons) per Minute.  Check Flow Rate by dispensing into a container for one minute. Measure the amount of water that has been 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 versus 1/4").
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	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.

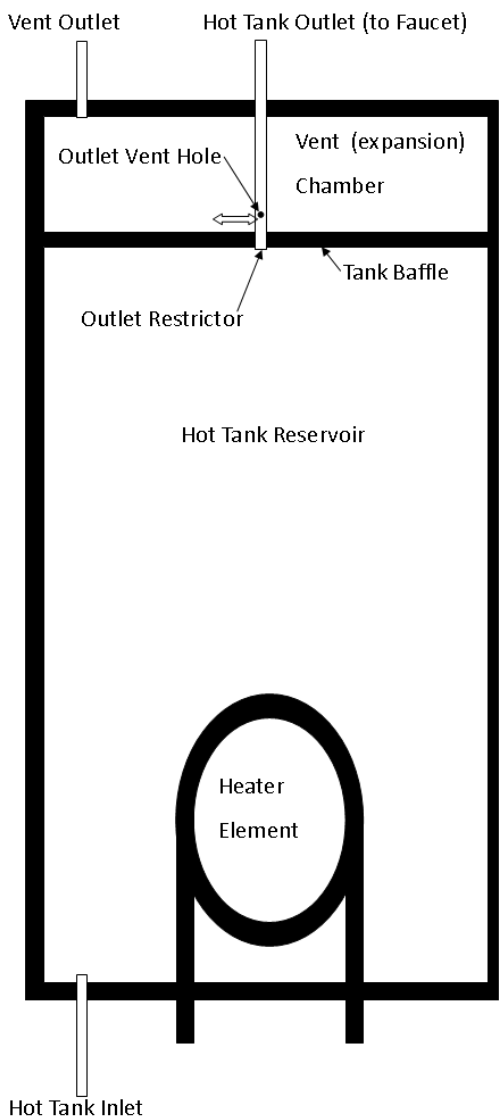
## 7. Hot Water Intermittently Forced Out through the Faucet, or a Dual Stream out of the Faucet

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 the Tank.  <b><u>See Hot Tank Descaling Instructions that are included further below in this Troubleshoot Section.</u></b>

## 8. Hot Water Coming out of Faucet Vent Hole

Possible Reason	Solution
<p>Too much water pressure. Recommend 40 to 60 psi for <b><i>ECOSTREAM PLUS Water Treatment System</i></b> to operate properly.</p>	<p>Check water pressure at the inlet bulkhead with a water pressure gauge.</p> <p>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”.</p> <p>Adjust water pressure to 40-60 psi.</p>
<p>Improper tubing attachment from the tank to faucet or vice versa.</p>	<p>Verify tubing is connected properly from tank outlets to correct faucet attachments.</p>
<p>Hot Tank outlet hole is scaled over.</p>	<p>Inspect and Descale Tank as needed.</p> <p><b><u>See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.</u></b></p> <p>See instructional video on the Partner Area of the Waterlogic.com website for more information.</p>
<p>Expansion chamber is not sealed properly.</p>	<p>Replace the Hot Tank.</p>


## 9. Hot Water Drip out of Faucet

Possible Reason	Solution
<p>Small Outlet Vent Hole susceptible to scale build up.</p>	<p>Descale Tank.</p> <p><b><u>See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.</u></b></p> <p>See instructional video on the Partner Area of the Waterlogic.com website for more information.</p>
	<p>All <b>Waterlogic</b> Hot Tanks have a built in Vent or Expansion Chamber in the top of the tank except for WL270 (GF) units.</p> <p>The Vent Chamber allows for expansion of the water when it is heated.</p> <p>The chambers are separated by a welded-in tank baffle.</p> <p>Water always flows into the bottom of the tank and out the top to the faucet.</p> <p>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.</p> <p>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.</p> <p>Water in the vent chamber is suctioned back through the outlet tube vent hole when water is dispensed.</p> <p>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.</p> <p>The small Outlet Vent Hole is susceptible to scale build up and is a key indicator that descaling is required.</p> <p>It is critical to descale the hot tank through the vent line and outlet line on a regular basis to prevent this problem.</p> <p>Descaling through the inlet and/or outlet lines only will not clean the vent chamber and outlet vent hole properly.</p>

## 10. Dispenses Hot and Cold Water at the Same Time

Possible Reason	Solution
<p>Too much water pressure.            Recommend 40 to 60 psi for <b><i>ECOSTREAM PLUS Water Treatment System</i></b> to operate properly.</p>	<p>Check water pressure at the inlet bulkhead with a water pressure gauge.</p> <p>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”.</p> <p>Adjust water pressure to 40-60 psi.</p>
<p>Hot or Cold solenoid is stuck open.</p>	<p>Remove Top cover.</p> <p>Check Hot Solenoid: Dispense cold water and visually inspect tubing for water flow from both tanks.</p> <p>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).</p> <p>Replace solenoid as necessary.</p>

## **11.No Cold Water Available**

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for <b><i>ECOSTREAM PLUS Water Treatment System</i></b> to operate properly.	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
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>I = ON</i> 
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.

## **12.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.

### 13. Dispense Buttons Stick

Possible Reason	Solution
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.

### 14. Run On – Water continues to dispense out of faucet after releasing the dispense button

Reason																														
<p>“Run On” or “Carry On” is present in all Waterlogic pressure fed units without outlet solenoids.</p> <p>“Run On” is defined is the amount of water that continues to dispense out of the faucet after releasing the dispense button.</p> <p>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.</p> <p>Typical “Run On” is 2-3 seconds.</p> <p><b>“Run On” can be reduced by installing a pressure limiting device.</b></p> <p>The amount of inlet or supply pressure directly impacts the amount of “Run On” as quantified below.</p> <table border="1"> <thead> <tr> <th colspan="5">WLCP Lab Testing of Rn On 7-31-2013</th> </tr> <tr> <th>Pressure</th> <th>Pressure</th> <th>Time</th> <th>Flow Rate</th> <th>Run On</th> </tr> <tr> <th>Static PSI</th> <th>Dynamic PSI</th> <th>4 Liters</th> <th>l/min</th> <th>Seconds</th> </tr> </thead> <tbody> <tr> <td>68</td> <td>40</td> <td>61</td> <td>2.9508197</td> <td>3</td> </tr> <tr> <td>50</td> <td>30</td> <td>72</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>32</td> <td>20</td> <td>92</td> <td>1.956217</td> <td>2</td> </tr> </tbody> </table> <p>Pressure measured at inlet line to unit. Static with unit closed. Dynamic with unit dispensing cold water.</p> <p>No filters were installed in unit.</p>	WLCP Lab Testing of Rn On 7-31-2013					Pressure	Pressure	Time	Flow Rate	Run On	Static PSI	Dynamic PSI	4 Liters	l/min	Seconds	68	40	61	2.9508197	3	50	30	72	2.5	2.5	32	20	92	1.956217	2
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## **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.*

**⚠️ 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 – an empty Waterlogic Filter with cartridge removed
  - Food Coloring
1. Bypass filters before starting the Descaling Procedure.
  2. Put descaler per directions and 3 drops of food coloring into the descaling cartridge.
  3. Connect descaling cartridge to the inlet water supply and connect to inlet bulkhead fitting on the back of the unit. Turn on Water Supply.
  4. 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.

5. Turn off water supply and remove sanitizing cartridge from inlet water supply. Reconnect water supply to inlet fitting.
6. Allow descaling solution to remain in the Hot Tank for 15 minutes (length of time may vary depending on water conditions).
7. Place a pitcher, catch basin or other container under the faucet of the **ECOSTREAM PLUS**.
8. Flush the Hot Tank until water runs clear.
9. Once clear Water dispenses from the faucet the Hot Tank has been descaled. Always ensure unit is performing to the customer's satisfaction.
10. Replace Filters.

**⚠ WARNING! HOT WATER.** *The ECOSTREAM PLUS Water Treatment System produces Hot Water up to 87°C (188°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. Always use insulated and chemically compatible containers and let unit cool down before draining the Hot Tank 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 depending on usage 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. Cold Water is not Cold (41° +/- 5° F)

#### 1. Cold Water is not Cold (41° +/- 5° F)

Possible Reason	Solution
No power or refrigeration elements	<p>Check that the Red Heater and Compressor switch is on.</p> <p>Turn Red Heater and Compressor Switch on. <i>I = ON</i></p> 
Tank has run out of cold water. <i>Cold tank capacity is 4 liters for Tower and 2 liters for Counter Top.</i>	<p>Wait for cold tank to chill water to temperature prior to dispensing more cold water.</p> <p>A greater capacity of <b>Waterlogic</b> Water Systems is available.</p>
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.

## HOT WATER TROUBLESHOOTING INDEX

### Hot Water Problems

1. Hot Water is not Hot 85°C +/- 15°C (185°F +/- 5°F)

*Also includes related instructions for Resetting the Hot Tank Overload or High Limit Safety*

### Hot Water is not Hot 85 +/- 15°C (185° +/- 5° F)


**NOTE:** The hot water in the *ECOSTREAM PLUS Water Treatment System* should be at 85 +/- 15°C (185° +/- 5° F) under normal operating conditions and while NOT in Sleep Mode.

The Hot temperature set point is 85°C +/- 15°C (185°F +/- 5° F) 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 *ECOSTREAM PLUS Water Treatment* does NOT have Extra Hot capability and the maximum hot temperature is 87°C (189°F).


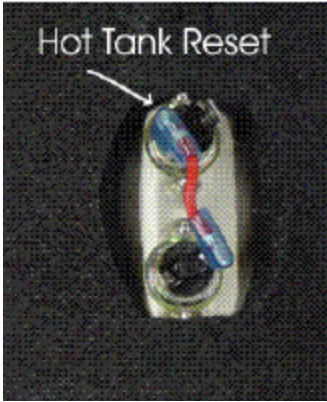


It typically takes 10 minutes for the 500W to heat the 1.6 Liter of room temperature (ambient) water to the 85°C (185°F) set point.

Possible Reason	Solution
No power to heater elements	Check that the Red Heater and Compressor switch is on.  Turn Red Heater and Compressor Switch on. <i>I = ON</i> 
Hot Tank Overload Tripped  <i>Overload is a safety feature to ensure the tank does not overheat.</i>	Overload will “click” when pushed. The overload is automatically reset when pressed.  <u><b>See Resetting the Hot Tank Overload or High Limit Safety Instructions that are included further below in this Troubleshooting Section</b></u>
Thermostat or overload “open” on Hot Tank	Turn Power off. Check OHM’s resistance across terminals on each Thermostat and Overload separately.

	<p>Good components will indicate a closed circuit or zero OHM's on the meter.</p> <p>Replace components as necessary.</p>
<p>Heating Coil Not Working</p>	<p>Turn Power off; Drain hot tank; Use multi-meter to check heater element for approximately 26 OHM's resistance.</p> <p>Hot Tank must be empty if you are checking for continuity.</p> <p>Replace Hot Tank as necessary.</p>
<p>Loose or improperly connected wire(s) to the Heating Element / Hot Tank.</p>	<p>Visually inspect wire leads going to the hot tank; confirm proper connections to the heating elements.</p> <p>Hot tank life is 3-5 years, depending on usage.</p> <p><i>*Typically, dealers swap out the Hot Tank at site, take back to the shop to repair.</i></p>

## RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1.	<p>Red Heater and Compressor Switch must be in the OFF position</p> <p><i>O=OFF</i></p> 
2.	<p>Unplug the Power Cord from rear of <b><i>ECOSTREAM PLUS Water Treatment System.</i></b></p>
3.	<p>Tower Model: Remove the <u>Lower Front Panel</u> by removing the Phillips Head Screws underneath the Lower Front Panel.</p> <p>Counter Top Model: Remove the <u>Side Panel</u> by removing Phillips Head Screws from Side Panel.</p>
4.	<p>Locate the protective metal box on the rear of the Hot Tank.</p> <p>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.</p> 

<p>5.</p>	<p>Reach up behind the Hot Tank and take hold of the Protective Metal Box covering the Thermostat and Overload on the Hot Tank.</p> <p>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.</p> <p>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.</p> <p><i>For demonstrative purposes, photos below have lowered the Hot Tank from the unit.</i></p>	
<p>6.</p>	<p>Press the reset button</p> 	
<p>7.</p>	<p>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.</p>	

8.	Replace 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 Heater and Compressor Switch.  Verify the cooler is fully operational before installing it at the customers' site.