WL15-HCS
WL15-HCA
MANUAL

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Waterlogic International, LTD – Global Headquarters Grenfell Road, Maidenhead, Berkshire, SL6 1HN, United Kingdom

WL15 MANUAL

Congratulations on your choice of the ***Waterlogic WL15 Machine***. The ***WL15-HCS*** model dispenses cold, hot, and cold sparkling water. The ***WL15-HCA*** model dispenses hot, cold, and ambient water. The ***WL15*** provides great tasting water with every use.

INTRODUCTION

Carefully read and follow all instructions to ensure proper and efficient operation of your ***WL15 Water Treatment System***. Contact your ***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 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 Waterlogic Dealer.***

Waterlogic WL15 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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USER GUIDE

SERVICE GUIDE

INSTALLATION GUIDE

TROUBLESHOOTING GUIDE

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!** ***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. 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.

WL15 FEATURES AND BENEFITS

Storage and Water Capacity

The ***WL15*** holds 4 Liters of Sparkling Water, and 1.2 Liters of Hot Water. The WL15 makes cold water by running water through stainless steel coils submerged in the sparkling water tank for instantaneous cold water.

Leak Detection and Flood Prevention

The ***WL15*** is supplied with a leak detection sensor installed in the bottom of the base panel to prevent leaks and to alert users to a water leak.

Child Safeguard

The ***WL15*** is equipped with a lock-out function. The lock button must be pressed and released before any water can be dispensed. This is to prevent any type of water from accidentally being dispensed.

Touch Sensor Application

Unlike ordinary button applications, the ***WL15*** has the built-in touch sensor buttons. The easy-touch sensor application is designed for effortless and enjoyable use.

Water Level Detection Sensor

Different from ordinary float level sensors, a capacitive sensor is used for improving water level detection accuracy without a float. Capacitive sensors stably detect water levels in more reliable and safer ways. The signal from the sensor is sent to a controller in order to automatically adjust the filtered water level within the sparkling tank.

CERTIFICATIONS

The ***Waterlogic WL15 Water Dispenser*** has been tested and certified to rigorous UL Standards. We believe that performance testing and certifications validate ***Waterlogic*** as a world-leader in water treatment systems.

Waterlogic WL15 Water Dispenser Certifications Include

UL399 – Certified Drinking Water Cooler

Intertek Labs (ETL) Certified the ***Waterlogic WL15 Water Machine*** to ANSI/UL 399 Standard for Drinking Water Coolers.

CSA C22.2 No. 120 - Refrigeration Equipment

Intertek Labs (ETL) certified the ***Waterlogic WL15 Water Dispenser*** to CSA C22.2 No. 120 Standard for Refrigeration Equipment.

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

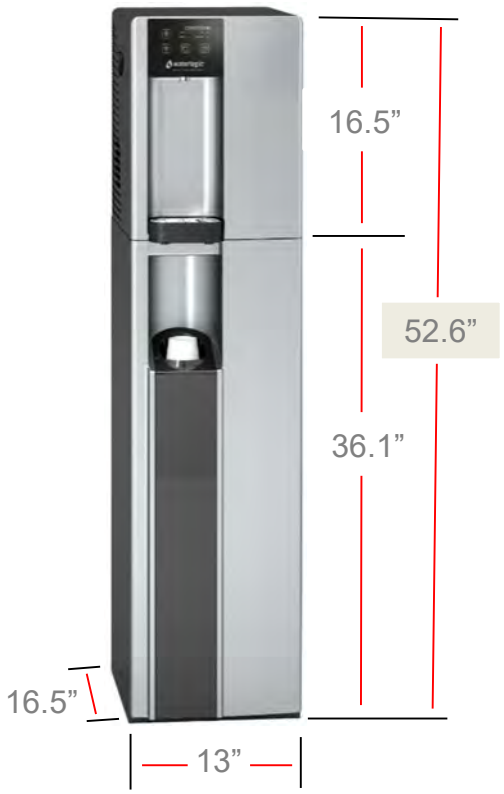
BRAND NAME	DESCRIPTION	MODEL - PART NUMBER
WL15-HCS	***Waterlogic WL15-HCS*** – Hot, Cold, and Sparkling	15-CT-HCS
	Serial Number Prefix: YYMM##### (##### denotes unit #)	
WL15-HCA	***Waterlogic WL15-HCA*** – Hot, Cold, and Ambient	15-CT-HCA
	Serial Number Prefix: YYMM##### (##### denotes unit #)	

SPECIFICATIONS

ITEM	WL15
Water Connection	1/4" (OD) Quick Connect
Cold Water Temperature	3°C (38°F)
Cold Water Production	Up to 20 Liters per hour
Hot Water Temperature	85°C (185°F)
Hot Water Manual Reset Overload	97°C (206°F)
Hot Tank Capacity	1.2 Liters
Sparkling Tank Capacity	4 Liters
Max Service Pressure	40-60psi (275-414kPa) - Use Pressure Reducer
Rated Service Flow	1.89 L/min (0.5gal/min)
Environmental Temperature	2°-37°C (35°-100°F)
Max Power Consumption	650W
Refrigerant Gas	R-134a; 1.27oz
R134a Pressures	88psig - 186psig

SHIPPING SPECIFICATIONS

ITEM	WL15
Width/Depth/Height	13”/330mm (W) x 16.5”/419mm (D) x 16.5”/419mm (H)
Weight (dry)	62lbs/28kg
	WL15 with Base Cabinet
Width/Depth/Height	13”/330mm (W) x 16.5”/419mm (D) x 52.6”/1336mm (H)
Weight (dry)	93lbs/42kg



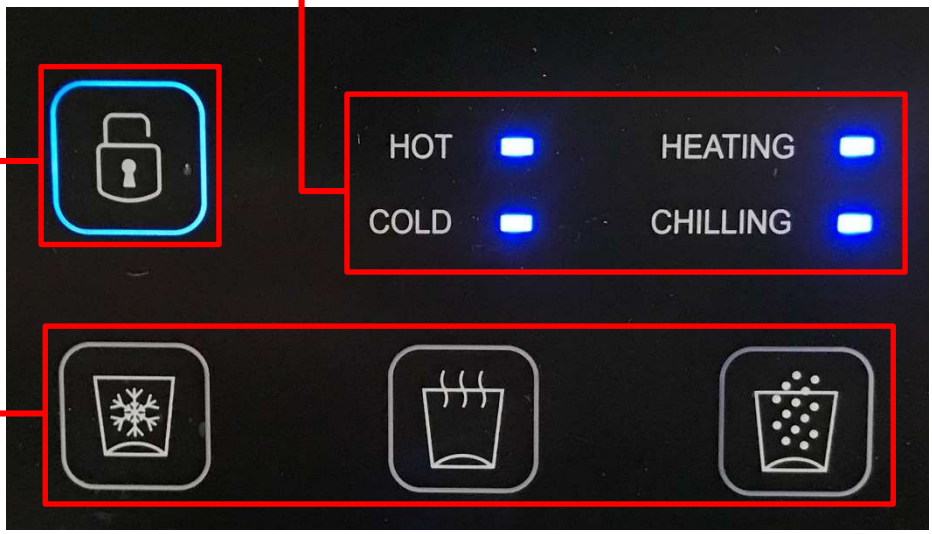
ELECTRICAL SPECIFICATIONS

ELECTRICAL SUPPLY	120V/60Hz, 1PH	15 Amp Service
COMPONENT	**POWER (approximate)**	**AMP DRAW (approximate)**
Heater	500W	4.2A
Compressor	100W	0.8A
Carbonator	50W	0.4A
WL15 TOTAL	**650W**	**5.4A**

OPERATION AND LIGHT SIGNALS

UNLOCK DISPENSE BUTTON
Unlocks the dispense operation, allowing the water type to be selected. Press and Release to unlock.

OPERATION LIGHTS
HOT: Hot water is at desired temperature.
HEATING: Hot water is being heated to desired temperature.
COLD: Sparkling and Cold water is at desired temperature.
CHILLING: Sparkling and Cold water is being chilled to desired temperature.



DISPENSE BUTTONS
These buttons are used to select and dispense the desired water type. Press and hold to begin dispensing (after the unlock button has been pressed and released). Release to end dispensing. From left to right: COLD – HOT – SPARKLING (or AMBIENT)

LEAK DETECTION ALARM
If water leaks inside the machine, a leak detection system will shut down the inlet solenoid. An audible alarm will sound for 10 seconds accompanied by all four touch buttons blinking. The buttons will continue to blink and the inlet solenoid will remain inactive until the leaked water has been dealt with.

The above picture shows the front user interface (UI) and control panel for ***the Waterlogic WL15 Water Dispenser***. The three water selection buttons control what kind of water is dispensed (Hot/Cold/Sparkling or Hot/Cold/Ambient).

Unlock Dispense Function: Press and release the unlock (padlock icon) button to unlock the dispense function. Will default back to locked mode after 10 seconds of inactivity.

Dispense Water: Place cup or container on the Drip tray as far back as possible. Press and hold the desired selection button (LED should light up once selected) until water begins to dispense. To end dispensing, release the water selection button.

ENERGY SAVER FUNCTION

The ***Waterlogic WL15*** is equipped with an Energy Saving function that allows the hot tank to cool be disabled during times of inactivity. The machine uses a photovoltaic sensor to gauge light levels in its surroundings. When the lights go out, the machine will turn off the hot tank after 10 minutes and will turn it on once the lights come back on. This feature is disengaged from the factory and must be manually enabled if desired.

ENGAGING THE ENERGY SAVER FUNCTION

Press and hold **BOTH** the Unlock and Hot Select button. Almost instantly, the Energy Saving LED should illuminate, indicating the feature has been activated.

Press and hold **BOTH** buttons again to disengage.

When the LED is lit, the feature is enabled. When it is unlit, it is disabled.

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

⚠ **WARNING!** ***Read and understand the contents of this manual before attempting to service WL15 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.

2. Ensure there is adequate (minimum of 2”) clearance around the ***WL15 Water Dispenser*** and clean the condenser grill and compressor fan to provide efficient cooling system operation.

3. Sanitize the Sparkling and Cold lines 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 are required.*

4. Clean and sanitize external surfaces of the ***WL15 Water Dispenser.*** Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.

5. Remove and clean the Faucet and Drip Tray on every service visit.

6. Change out filters every 6 months, or as needed.

REPLACEMENT COMPONENTS (CONSUMABLES)

Component	WLCP Part No.	Frequency of Replacement
GAC Filter – 10" Carbon Activated Inline Filter - ***Optional: Filter Element FT-0038-WLT***	FT-0035	Every 12 Months or as required.
Carbon Block – 10" CBC 1-Micron Lead and Cyst Reduction Inline Filter – ***Optional: Filter Element FT-0064-WLT***	FT-0063	Every 6 Months or as required.
Sediment Filter – 10" Sediment 20-Micron Inline Filter – ***Optional: Filter Element FT-0055-WLT***	FT-0053	Every 6 Months or as required.
Hot Tank Assembly	15-9080	Every 3-5 Years depending on use
UV Lamp	15-9135	Every 12 months, or as required.

⚠ **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 every 3-5 years. It is recommended to descale the hot tank once a year.

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.

Tank Sanitization

Run sanitizer through the sparkling and cold lines on an annual basis to inhibit issues with biofilm and mold. This process is covered in the Installation section.

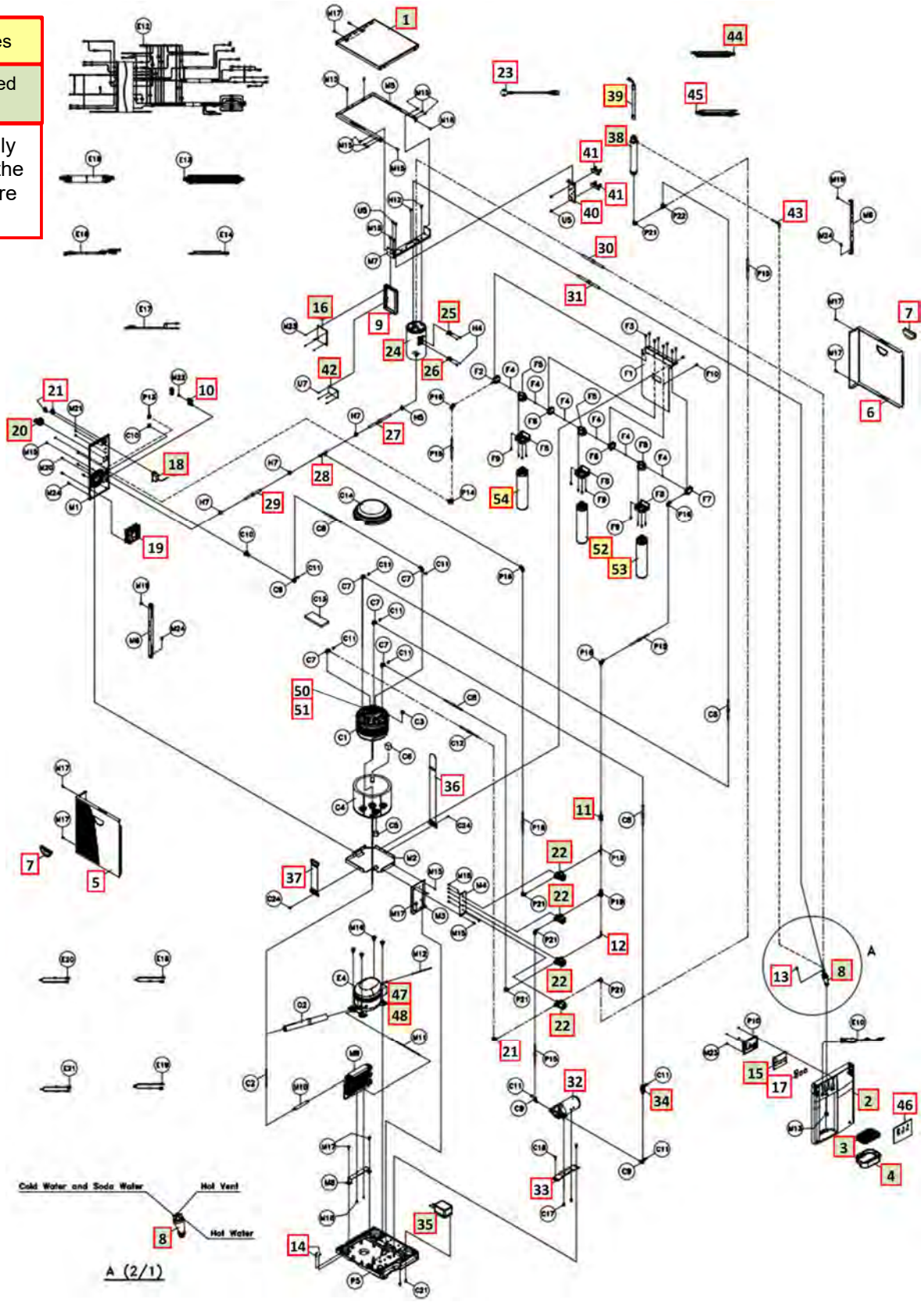
DISPOSAL

End of Life

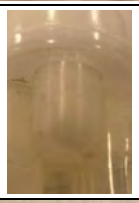
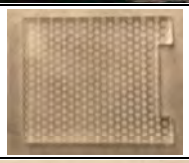
At the **end of this product's life**, ensure that it is disposed of in an environmentally friendly manner which is fully compliant **with all Federal/State/Local Requirements and Guidelines**. Do not dispose of this appliance with normal household or business waste.

WL15-CHS DRAWING AND PARTS LIST

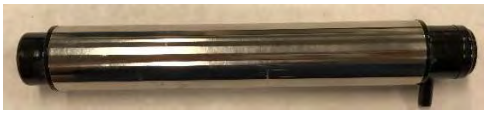
Yellow = Consumables
Green = Recommended spare parts
WL has elected to only stock select parts of the WL15. These parts are boxed in Red.

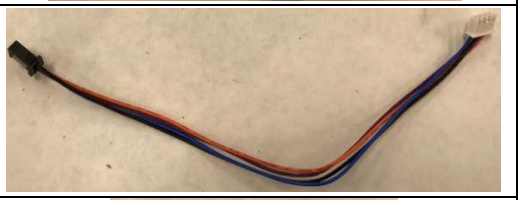
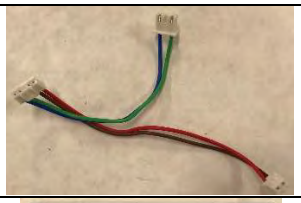


No	WL Part No.	Description	Charm Part No.	
1	15-9005	TOP COVER, BLACK	3PC818-02-BK	
2	15-9010	FRONT PANEL, SILVER	3PC818A-01-7L	
3	15-9015	DRIP TRAY GRILL, SILVER	3PC818-08-1	
4	15-9020	DRIP TRAY	3PC818-07-BK	
5	15-9025	LEFT SIDE PANEL, BLACK	3PC-PR-03S-BK	
6	15-9030	RIGHT SIDE PANEL, BLACK	3PC-PR-04-BK	
7	15-9035	HANDLE	3PT789-09-BK	
8	15-9040	4-WAY FAUCET	2PC698H-06-4-01	
9	15-9175	MAIN PCB MOUNTING BOX	3PCM104-09	
10	15-9176	DUAL DRAIN PORT W/ O-RINGS	2PC698H-13-1	
11	15-9177	INLINE FILTER SCREEN, QUICK CONNECT	2PC-Z23	

12	15-9178	ELBOW VENT FITTING	3PC-Z20-L-2	
13	15-9045	SILICONE CAP FOR UNUSED PORT	3SO-013-2	
14	15-9050	M14 LEAK DETECTION PROBES	3M-Z2318-6	
15	15-9055	TOUCH PCB	3E-IC818A-TC-DC	
16	15-9060	MAIN PCB	3E-IC103-CHST-B	
17	15-9065	LIGHT GUIDE PLATE (LGP)	3E-LT-01	
18	15-9179	COLD TANK THERMOSTAT	3E-C025	
19	15-9070	FAN UNIT	3E-Z112	
20	15-9180	3 PIN SOCKET WITH FUSE AND FUSE BLOCK	2WL-Z003-10A	 
21	15-9181	BOAT TYPE SWITCH	3E-Z225	 

22	15-9075	LARGE FLOW VOLUME SOLENOID VALVE	2R-E301A-EZ	 
23	10-3007	STANDARD POWER CORD, 120V, 1840mm	3WL015+005	
24	15-9080	HOT WATER TANK COMPLETE SET	3M-TW-L728-BD	
25	15-9085	92C OVERLOAD, HOT TANK	3E-C015-1	
26	15-9090	82C THERMOSTAT, HOT TANK	3E-C016-4	
27	15-9095	SILICONE PIPE, HOT DRAIN	3SI-085-095	
28	15-9100	TEE FITTING, QUICK CONNECT	3PC698H-14-1	
29	15-9105	SILICONE PIPE, HOT DRAIN	3SI-085-245	
30	15-9110	SILICONE PIPE, HOT TO FAUCET	3SI-088-210	

31	15-9115	SILICONE PIPE, HOT VENT TO FAUCET	3SI-088-190	
32	15-9120	CARBONATOR PUMP	3R-E004EZ	
33	15-9125	PUMP MOUNTING PLATE	3M-M102-07	
34	15-9182	CHECK VALVE, OUTLET CARBONATOR PUMP	2PC-Z23-2	
35	15-9183	TRANSFORMER (CHS)	3R-E014	
36	15-9184	VELCRO STRAP (LONG)	3Z-C027	
37	15-9185	VELCRO STRAP (SHORT)	3Z-C028	
38	15-9130	UV HOUSING	2R-UVL-32	
39	15-9135	UV LAMP	2R-UVL-31	

40	15-9140	FIXTURE OF SOLENOID VALVE	3M-215-07	
41	15-9145	UV CLIP	3R-P105-1	
42	15-9150	PCB OF UV STABILIZER	3E-ICUV-D	
43	15-9155	L TYPE SILICONE TUBE TO FAUCET	3SL-028	
44	15-9160	CONNECTING WIRE OF UV LAMP	3WL-298-17	
45	15-9165	UV CONTROLLING WIRE	3WL-298-16	
46	15-9170	TOUCH PANEL INDICATION STICKER (CHS)	3F1-818ACHS-01	
47	15-9186	STARTER RELAY, COMPRESSOR	N/A	 

48	15-9187	OVERLOAD RELAY, COMPRESSOR	N/A	 
49	15-9002	HCS TOUCHLESS MODULE (OPTIONAL)	N/A	 
50	15-9190	WATER LEVEL SENSOR PROBE (60MM)	3M-Z2318-4	
51	15-9191	WATER LEVEL SENSOR PROBE (50MM)	3M-Z2318-9	
52	FT-0035 (OPTIONAL)	GAC FILTER – 10” CARBON ACTIVATED INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT FT-0038-WLT*	N/A	
53	FT-0063 (OPTIONAL)	CARBON BLOCK – 10” CBC 1-MICRON LEAD AND CYST REDUCTION INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT FT-0064-WLT*	N/A	
54	FT-0053 (OPTIONAL	SEDIMENT FILTER – 10” SEDIMENT 20 MICRON INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT FT-0055-WLT*	N/A	

WL15-CHA WATER FLOW DIAGRAM

Yellow = Consumables
Green = Recommended spare parts
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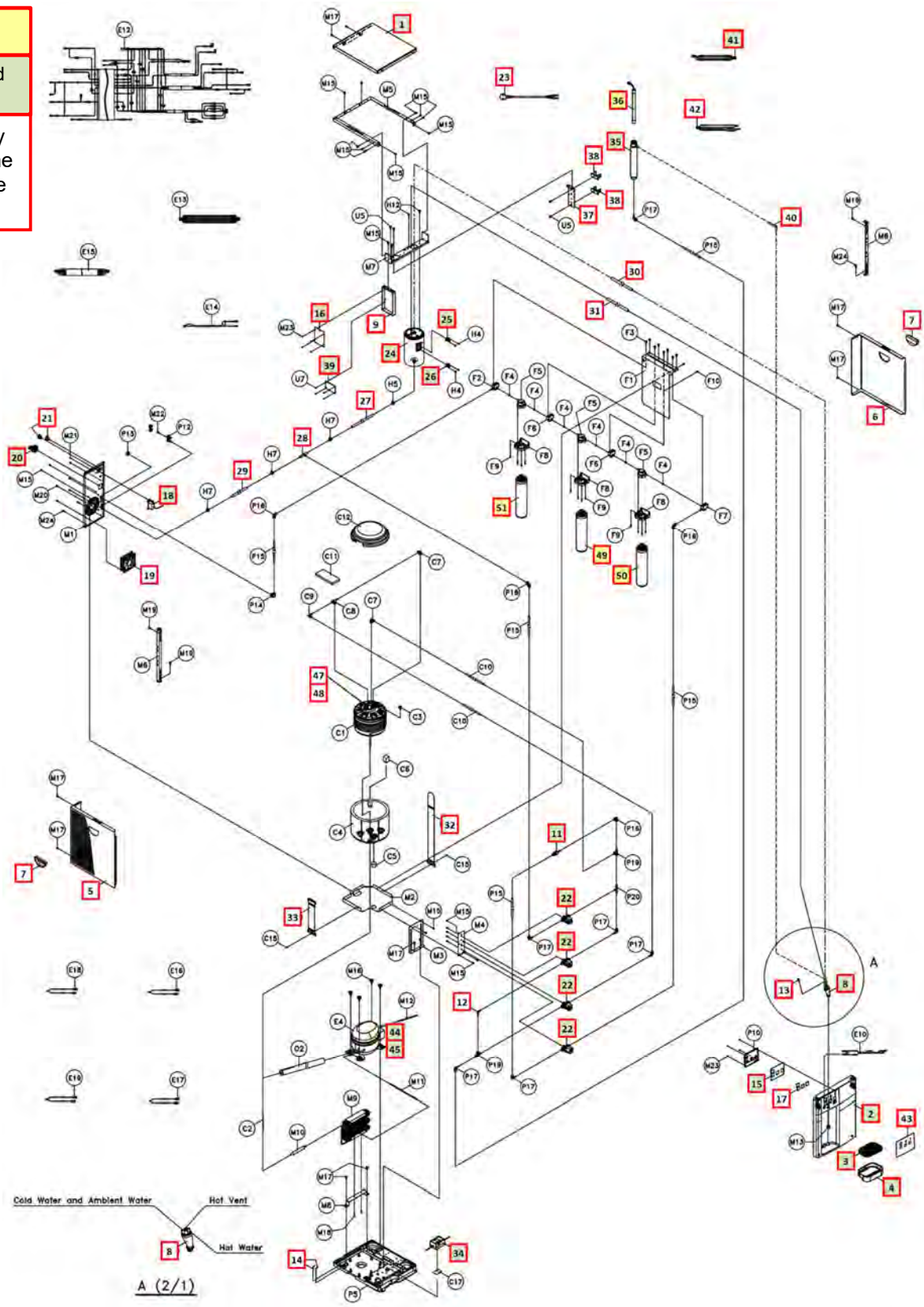

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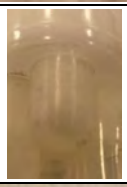
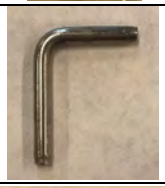
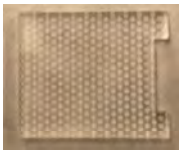
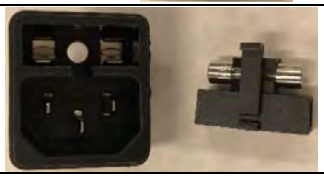
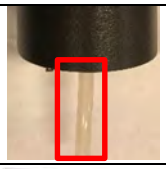
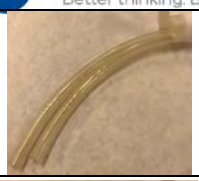
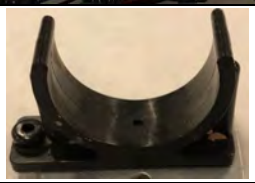
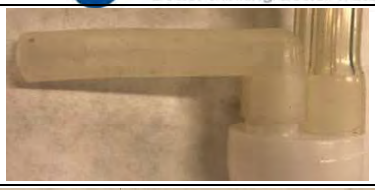
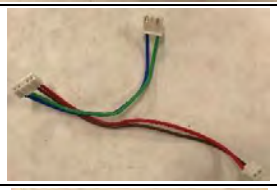
4	15-9020	DRIP TRAY GRILL	3PC818-07-BK	
5	15-9025	LEFT SIDE PANEL, BLACK	3PC-PR-03S-BK	
6	15-9030	RIGHT SIDE PANEL, BLACK	3PC-PR-04-BK	
7	15-9035	HANDLE	3PT789-09-BK	
8	15-9040	4-WAY FAUCET	2PC698H-06-4-01	
9	15-9175	MAIN PCB MOUNTING BOX	3PCM104-09	
10	15-9176	DUAL DRAIN PORT W/ O-RINGS	2PC698H-13-1	

11	15-9177	INLINE FILTER, QUICK CONNECT	2PC-Z23*	
12	15-9178	ELBOW VENT FITTING	3PC-Z20-L-2	
13	15-9045	SILICON CAP FOR UNUSED PORT	3SO-013-2	
14	15-9050	M14 LEAK DETECTION PROBES	3M-Z2318-6	
15	15-9055	TOUCH PCB	3E-IC818A-TC-DC	
16	15-9060	MAIN PCB	3E-IC103-CHST-B	
17	15-9065	LIGHT GUIDE PLATE	3E-LT-01	
18	15-9179	COLD TANK THERMOSTAT	3E-C025	
19	15-9070	FAN UNIT	3E-Z112	
20	15-9180	3 PIN SOCKET W/ FUSE AND FUSE BLOCK	2WL-Z003-10A	 

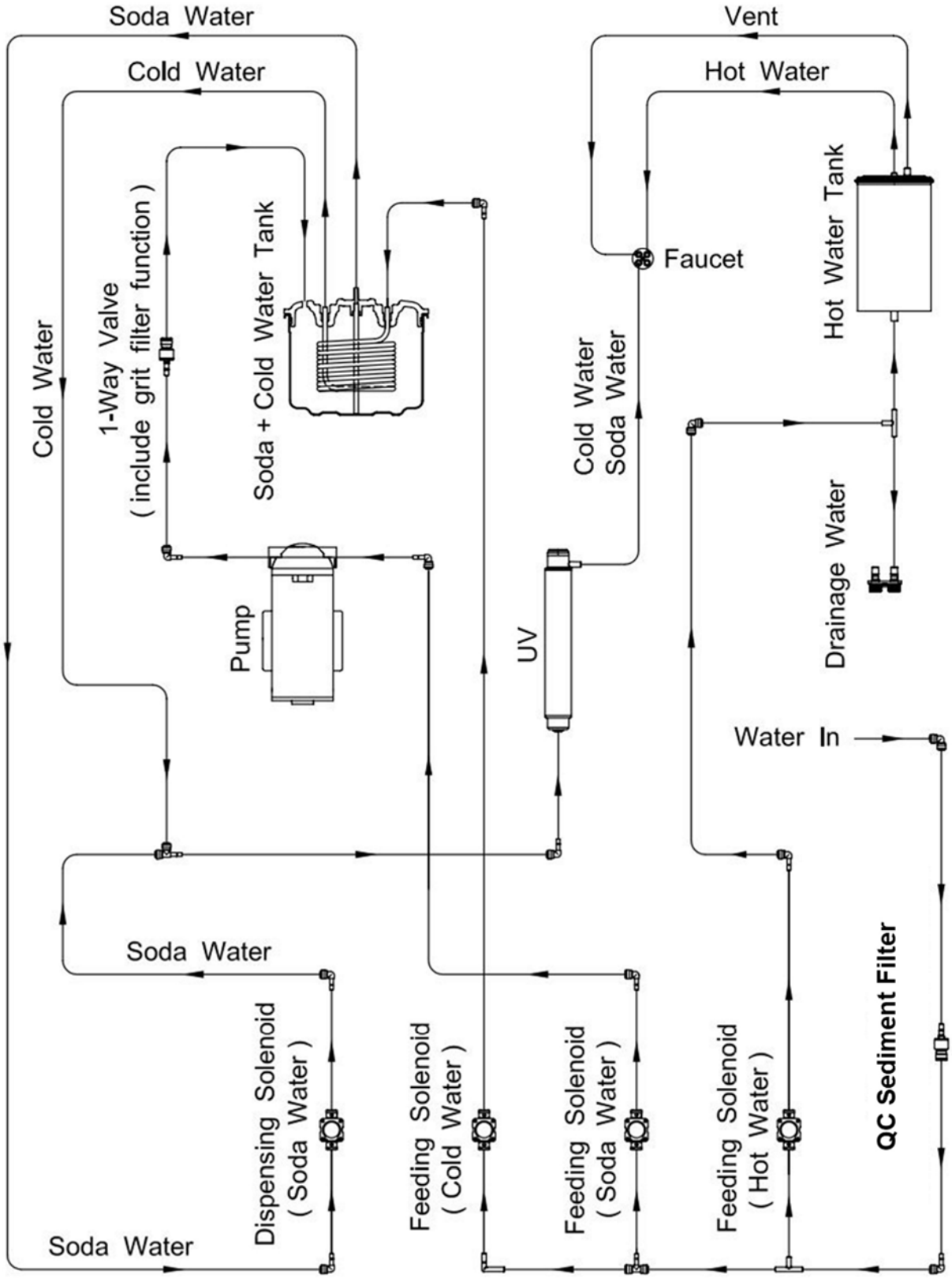
21	15-9181	BOAT TYPE SWITCH	3E-Z225	 
22	15-9075	LARGE FLOW VOLUME SOLENOID VALVE	2R-E301A-EZ	 
23	10-3007	STANDARD POWER CORD, 120V, 1840mm	3WL015+005	
24	15-9080	HOT WATER TANK COMPLETE SET	3M-TW-L728-BD	
25	15-9085	92C OVERLOAD	3E-C015-1	
26	15-9090	82C THERMOSTAT	3E-C016-4	
27	15-9095	SILICONE PIPE, HOT DRAIN	3SI-085-095	
28	15-9100	TEE FITTING	3PC-698H-14-1	
29	15-9105	SILICONE PIPE, HOT DRAIN	3SI-085-245	

30	15-9110	SILICONE PIPE, HOT TO FAUCET	3SI-088-210	
31	15-9115	SILICONE PIPE, HOT VENT TO FAUCET	3SI-088-190	
32	15-9184	ICE VELCRO FELT (LONG)	3Z-C027	
33	15-9185	ICE VELCRO FELT (SHORT)	3Z-C028	
34	15-9188	TRANSFORMER (CHA)	3E-T09-6	
35	15-9130	UV HOUSING	2R-UVL-32	
36	15-9135	UV LAMP	2R-UVL-31	
37	15-9140	FIXTURE OF SOLENOID VALVE	3M-215-07	
38	15-9145	UV CLIP	3R-P105-1	
39	15-9150	PCB OF UV STABILIZER	3E-ICUV-D	

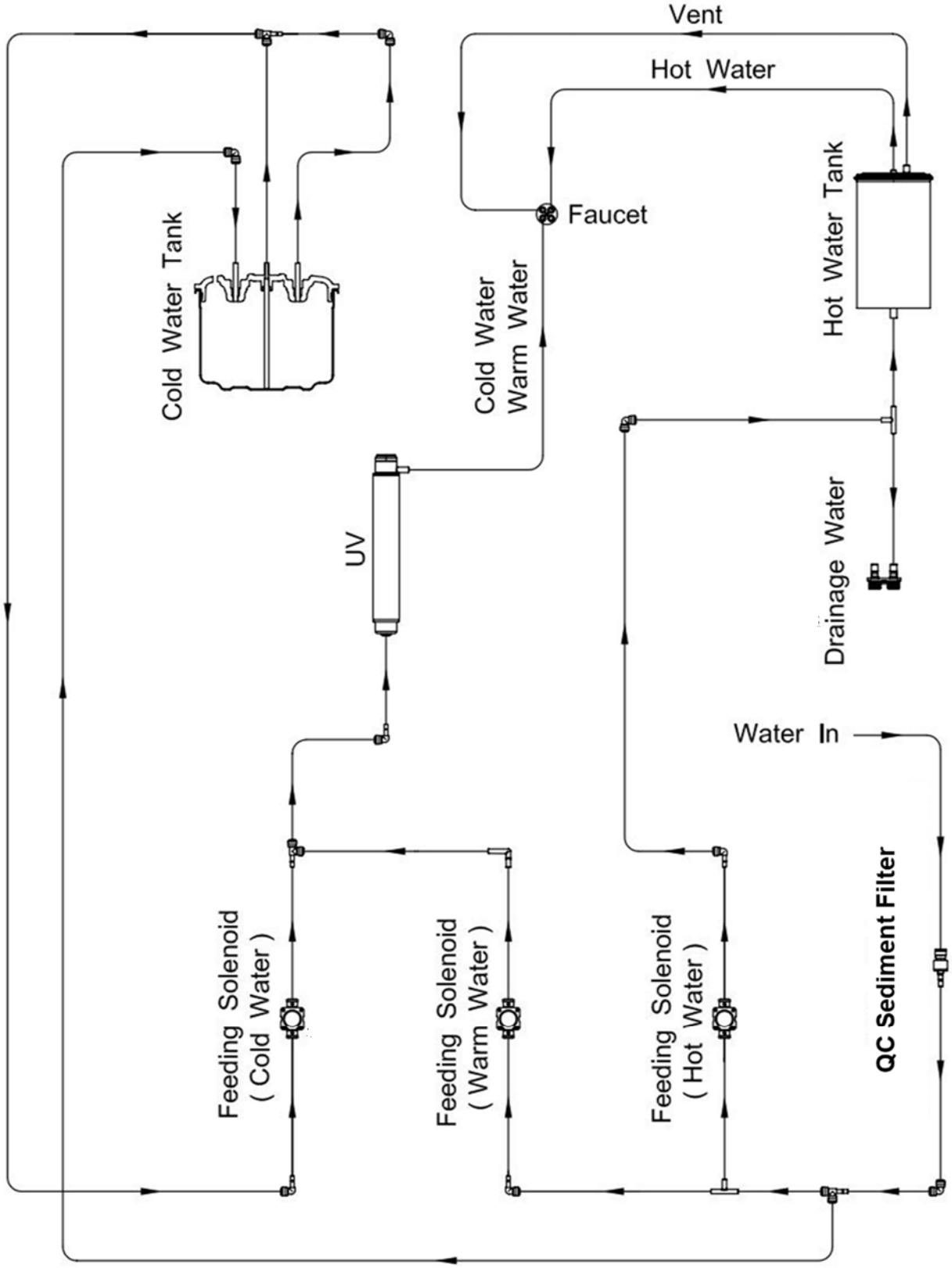
40	15-9155	L TYPE SILICON TUBE, TO FAUCET	3SL-028	
41	15-9160	CONNECTING WIRE OF UV LAMP	3WL-298-17	
42	15-9165	UV CONTROLING WIRE	3WL-298-16	
43	15-9189	TOUCH PANEL INDICATION STICKER (CHA)	3F1-818ACWH-01	
44	15-9186	STARTER RELAY, COMPRESSOR	N/A	 
45	15-9187	OVERLOAD RELAY, COMPRESSOR	N/A	 
46	15-9000	HCA TOUCHLESS MODULE (OPTIONAL)	N/A	 
47	15-9190	WATER LEVEL SENSOR PROBE (60MM)	3M-Z2318-4	

48	15-9191	WATER LEVEL SENSOR PROBE (50MM)	3M-Z2318-9	
49	FT-0035 (OPTIONAL)	GAC FILTER – 10” CARBON ACTIVATED INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT* *FT-0038-WLT*	N/A	
50	FT-0063 (OPTIONAL)	CARBON BLOCK – 10” CBC 1-MICRON LEAD AND CYST REDUCTION INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT* *FT-0064-WLT*	N/A	
51	FT-0053 (OPTIONAL	SEDIMENT FILTER – 10” SEDIMENT 20 MICRON INLINE FILTER ***OPTIONAL*** *FILTER ELEMENT* *FT-0055-WLT*	N/A	

WL15-CHS FLOW DIAGRAM

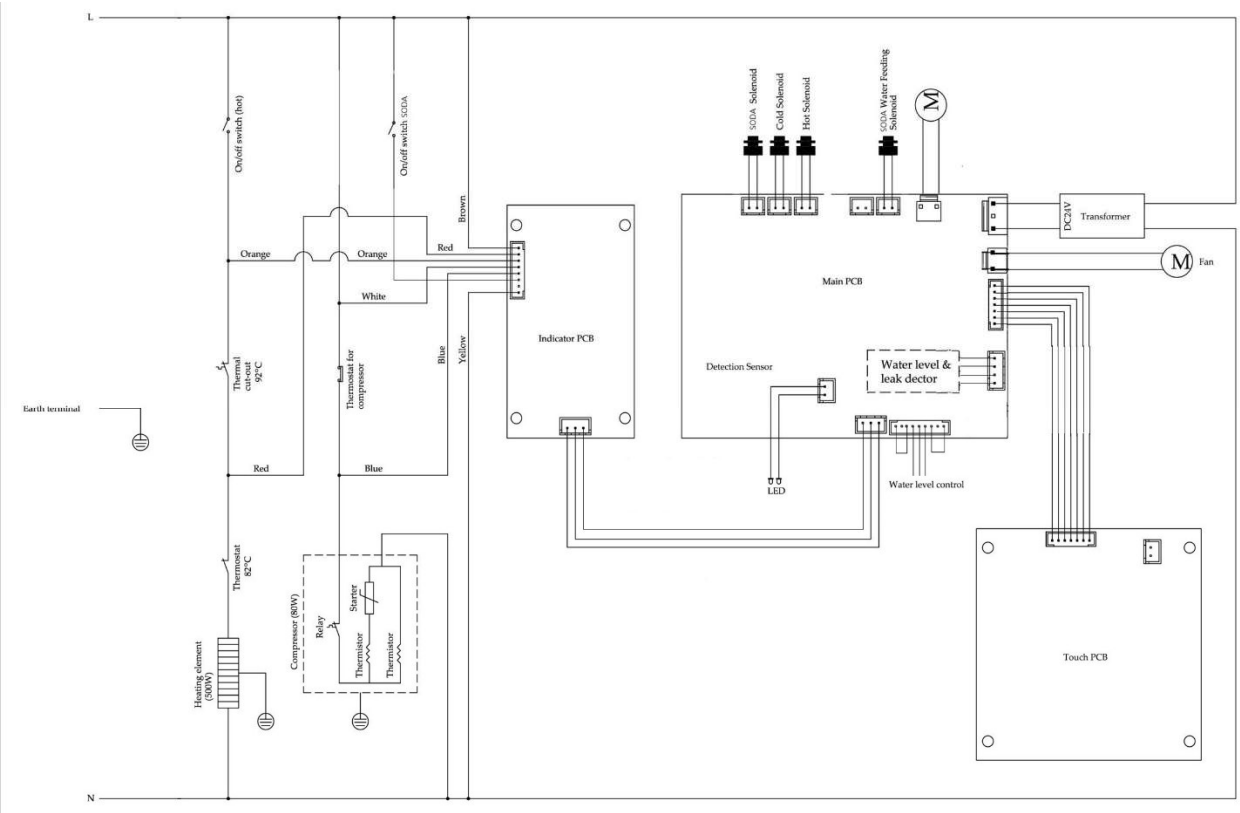


WL15-CHA FLOW DIAGRAM



WL15 ELECTRICAL DIAGRAM

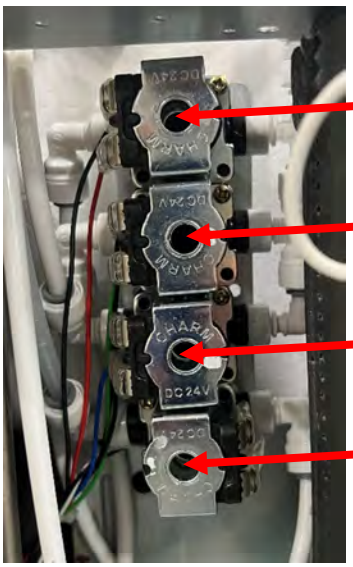
⚠**DANGER!** ***HIGH VOLTAGE ELECTRICAL HAZARD. PCB (Printed Circuit Board) contains High Voltage. Only trained and qualified technicians should attempt live testing.***



SOLENOID VALVE QUICK REFERENCE

Below is a quick reference guide for identifying the solenoids in the CHS and CHA versions of the ***WL15.*** Also shown are the connections of the solenoids to the PCB.

CHS



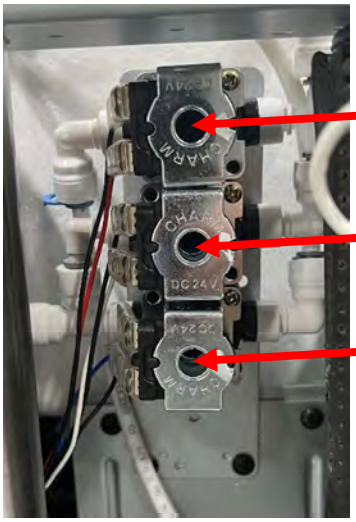
Hot Water Feed Sol/V
(Red Wire)

Sparkling Water Feed Sol/V
(Green Wire)

Cold Water Feed Sol/V
(Blue Wire)

Sparkling Water Disp. Sol/V
(White Wire)

CHA



Hot Water Feed Sol/V
(Red Wire)

Ambient Water Feed Sol/V
(White Wire)

Cold Water Feed Sol/V
(Blue Wire)

WL15 INSTALLATION, FILTER FLUSHING, AND SANITIZING PROCEDURES

⚠ **DANGER!** ***ELECTRICAL SHOCK HAZARD.***
*Only qualified personnel who have read and understand this entire manual should attempt to install, or service this **WL15 Water Dispenser**, failure to do so could result in death or serious injury. DO NOT plug into an electrical supply until specifically instructed. Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.*

⚠ **WARNING!** ***ALWAYS SANITIZE BEFORE USE.***
Sanitize before use to eliminate any potential microbiological contaminates.

⚠ **CAUTION!** ***DRIP TRAY DRAIN.***
*The **WL15 Water Dispenser** has a drip tray that is NOT pre-plumbed to any drain or collection device and must be periodically emptied.*

⚠ **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).

⚠ **CAUTION!** ***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.

⚠ **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 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.

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5-gallon container or drain basin
- Sanitizer - Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- 1/4” Plastic Tubing and assorted 1/4” quick connect fittings
- Sanitizing Cartridge
- Food Coloring (optional)

1. Unpack the **Waterlogic WL15 Water Dispenser** and check exterior for damage.
2. Identify the ports on the back of the machine. All ports are clearly labeled. The top port of the drainage is not used, only the lower port is connected and will drain the hot tank. Make sure the power switches on the back are turned OFF (***O=OFF***).

3. Remove the top cover by removing the two screws holding the lid in place (2) and sliding back and lifting from the unit. Remove the other screws shown to release the side panel (4), then slide it back and pull away from the unit

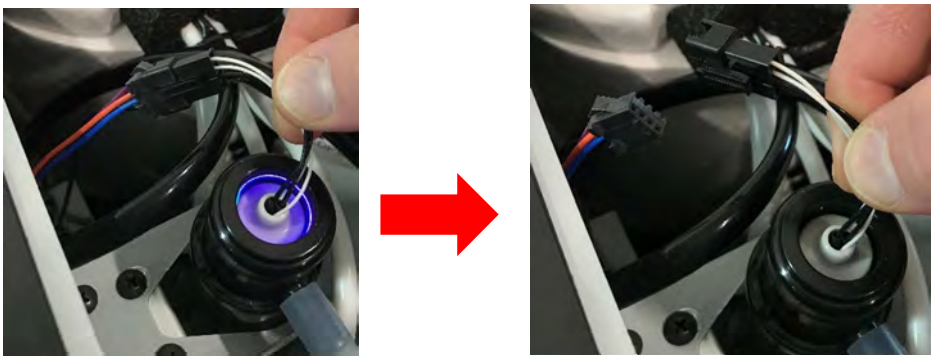
4. At this point, connect the machine to the water supply via ¼" poly tube inserted into the "Water In" port on the back of the unit.

5. Plug the machine into the power supply using the supplied power cord.

Sanitizing

6. To sanitize the machine, you will have to mix a sanitizing solution (Household Bleach (5.25% Hypochlorite solution), 1 teaspoon to ½ gallon of water or other approved cleaner) and run it through the cold and sparkling lines. To do this, mix sanitizing solution in an empty filter canister, and plumb in line with the water supply. It is recommended to add a few drops of red food coloring to the solution to help identify when it has run out. Also, setup a pitcher or large container to catch water as it is dispensed.

7. Disconnect the wire connection between the UV lamp and the PCB.



8. Turn on the Soda switch on the back panel of the unit (***I=ON***) to engage the carbonator pump and begin filling the carbonator tank. The carbonator pump should be easily heard running. Once it stops, try dispensing sparkling water to ensure flow.

9. Connect CO2 to the machine via ¼" poly tube inserted into the rear CO2 port on the back panel of the machine. Open the CO2 valve on top of the bottle. ***NOTE:*** Always use a pressure regulator set no higher than 40psi with any CO2 supply.

10. Now dispense cold water until the water runs red, then dispense sparkling water until the water runs red. Sanitizing solution is now in the lines and chambers of the cold and sparkling circuits.

11. Continue dispensing alternating water types until both run clear and have no bleach smell to the water being dispensed. This may require several gallons to be flushed through the system. ***NOTE: Be sure all sanitizer has been flushed from the system before installing the filters.***

12. Reconnect the UV lamp.

Filter Flushing

13. Shut off the water supply. Using the filter clips, clip in pre-flushed WL filters and plumb them into the water line in series, with the first filter connecting to the line from inlet bulkhead and the last filter connecting to the line feeding the solenoids. ***Remember***, the correct order for the filters is FT-0053, FT-0063, FT-0035. 53 should get water first and 35 should get water last. ***NOTE***: If filters are NOT pre-flushed, flushing will be covered in the next step.

14. Turn the water supply back on.

1. If the filters were not pre-flushed, flush them now by dispensing at least a gallon of water using ***ONLY*** the cold dispense operation. Place something in the dispense area to catch the water being dispensed. Small black flakes in the water are normal and is the purpose of this flushing operation. This is only loose carbon from the filters.

Fill the Hot Tank

2. Using the control panel, dispense hot water until water begins to dispense. It may take up to two minutes before any water flows from the faucet, as the hot tank is being filled with water.

3. Once water begins flowing using the hot dispense function, turn the hot switch on at the rear panel of the unit. (***I=ON***) Now, the water in the hot tank will begin heating.

Regenerate the Sparkling Circuit

4. Allow about 20-30min for the compressor and gas system to chill the sparkling water. Then test the dispense function of all types of water to make sure it is both heated and chilled to the desired temperatures.

UV System Functionality Test

5. Dim or shield the overhead lights and peer into the top of the UV module. The blue glow indicates the lamp is lit. If it is not, check the wire connections to the PCB and the bulb itself.

WL15 DRAINING PROCEDURES

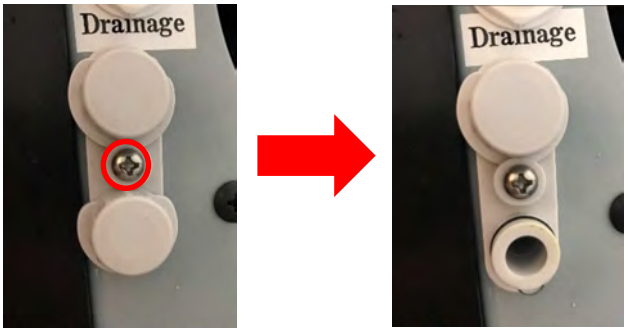
⚠ **CAUTION!** ***STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.***
The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbial growth

⚠ **DANGER!** ***HOT WATER.***
The Waterlogic WL15 Water Dispenser 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.

1. To drain the tanks of the Waterlogic WL15 Water Dispenser, first start with draining the Hot Tank. Shut off the Hot Switch on the back of the machine and dispense Hot water until it is cool to the touch.

2. Now, shut off the water supply.

3. Locate the drain port on the back of the machine. Use a screwdriver to slightly loosen the screw at the center of the drain port, which will allow the lower cap to be turned 180 degrees and removed. ***Have a bucket or pitcher ready to catch the water as it drains out of the port.***



4. Once the water has completely drained from the Hot tank, replace the drain port cap and secure by tightening the screw down over the cap lip.

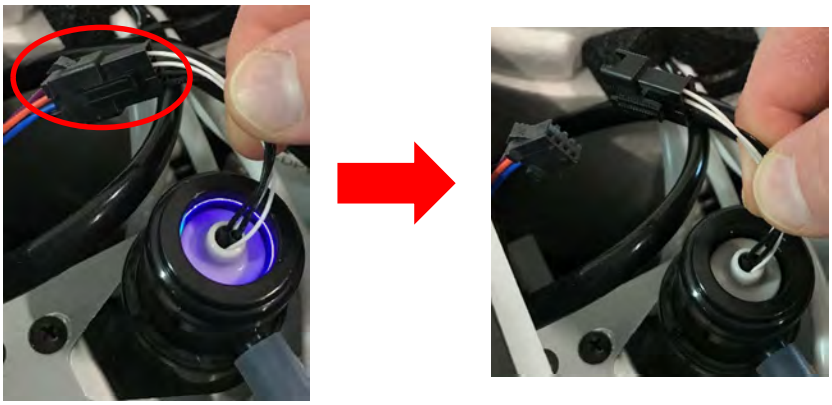
5. Next, drain the sparkling water from the system. Place a pitcher or the like in the dispensing area to catch the water as it comes out. With the gas connected and the Soda switch turned on, begin dispensing Sparkling water until only gas is coming out of the spout. Promptly turn off the Soda switch and shut the gas off at the bottle.

6. Again, with a pitcher in the dispense area, connect the gas line to the Water Supply port and turn the bottle on. Dispense Cold water from the system until only gas comes out of the spout (***it will only be a few ounces of water).*** Shut the gas off and disconnect the line. Dispense Cold water one last time to break any pressure buildup in the line.

CHANGING THE UV BULB

1. Remove the upper panel of the WL15 by removing the screws shown in red and set the upper panel aside.

2. With the upper panel removed, locate the UV module. The UV bulb is inserted from the top with the wires running out and to the PCB. Locate the plastic connector closest to the bulb and disconnect.

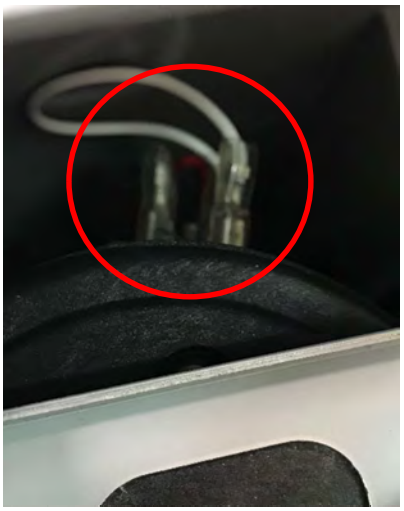


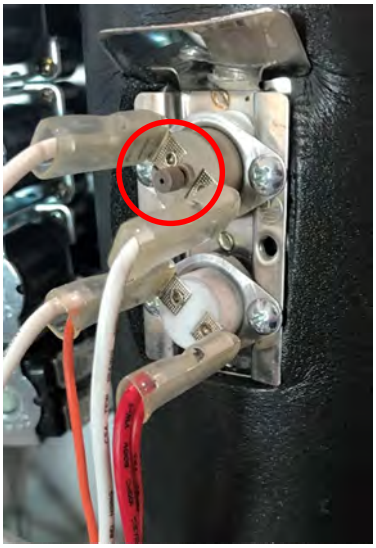
3. Now simply pull the bulb out of the module, replace with a new bulb, and reconnect the wire. Replace the top cover and screws.

WL15: HOT TANK RESET

1. Remove the upper panel of the WL15 by removing the screws shown in red and set the upper panel aside. ***UNPLUG THE MACHINE FROM THE POWER SOURCE.***

2. Locate the hot tank. Then locate the high limit overload thermostat on the tank. From this perspective, it will be difficult to see. The photos below illustrate what to look for.





3. Press the small gray button at the center of the thermostat. This will reset the contacts inside the thermostat.

4. Plug the unit back into the power source and reinstall the top cover and screws.

WL15: HOT TANK DESCALING

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 WL250 Water Treatment System's performance.

⚠ **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).

⚠ **CAUTION!** ***STAINLESS STEEL TANK DESCALING.***
*The Hot Tank is made from stainless steel. Ensure descaling solution is compatible with stainless and always flush the **WL15 Water Treatment System** completely. Dispose in an environmentally safe manner.*

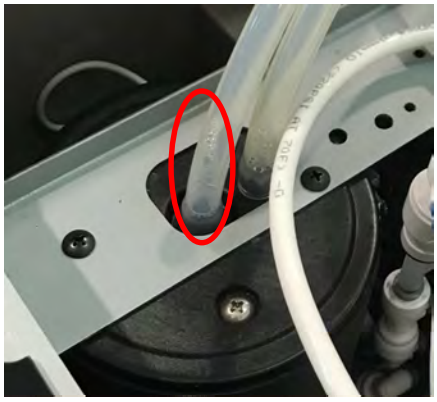
Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Water Pitcher or Container to collect water from the faucet
- Sanitizer - Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- 1/4" Plastic Tubing and assorted 1/4" quick connect fittings
- Food Coloring (optional)

1. Shut off the water supply to the machine. Also, shutoff the Hot switch on the back of the unit.

2. Remove the two screws shown and remove the top panel of the unit and set aside.

3. Locate the Hot Tank. Pull the tube off the outlet port in the center of the top of the Hot Tank.



4. Put descaler per direction and 3 drops of food coloring (optional) directly into the Hot Tank outlet port. A small amount of water may need to be drained from the hot tank ***to make room for the descaler solution. Refer to the draining procedure for instruction on how to do this.***

5. Allow descaling solution to remain in the Hot Tank for 15-20 minutes.

6. Reconnect the tube from the faucet to the center port of the Hot Tank. Turn the water supply back on.

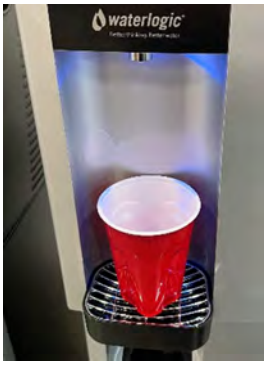
7. Place a pitcher or container under the faucet and dispense hot water until the water runs clear (if food coloring was used). This may require up to a gallon of water dispensed from the hot tank to completely flush all descaling agent out of it.

8. Once flushed of descaling agent, turn the Hot switch on at the back of the unit.

DRIP TRAY GUIDE

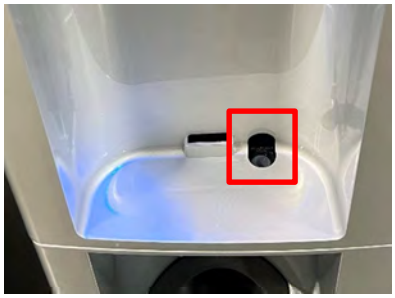
Both the **HCA** and **HCS** models of the **WL15** come with a removable drip tray included in the box. This drip tray will need to be installed on the front panel of the machine to catch any splashes or overflow during operation. This drip tray will need to be removed and emptied if it becomes full of water.

The standard drip tray is shown below by itself and installed on the machine.

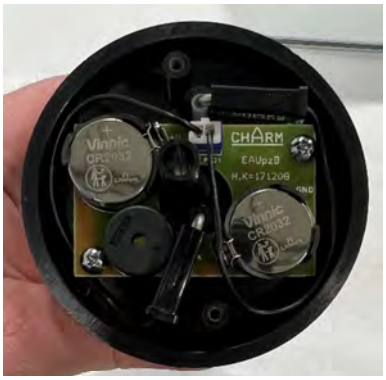


There is an **alternative** drip tray included with the WL15 Cabinet that is used to divert water overflow to a collection tank inside the cabinet, which is included in every cabinet. It is at the sole discretion of the installer and customer to use this system, as it will require some periodic attention to empty and clean the collection tank. If elected to be used, the drip tray included with the base cabinet will need to be installed in place of the standard drip tray.

Each cabinet is equipped with an alternative drip tray with a molded stem (boxed in red) that connects to a port at the top of the cabinet (also boxed in red). This port is connected to a line running down to the collection tank, which is equipped with a level sensor and will chime when it is time to empty the tank. The drip tray and drip tray port are shown below.



The drip tray port is connected to a line running down to a collection tank inside the cabinet. The tank is fitted with a cap that has a level sensor built in. This level sensor is powered by two CR2032 batteries. If the tank ever fills and fails to alarm, the batteries are likely exhausted and will need to be replaced. The collection tank, cap, sensor, and batteries are shown below.



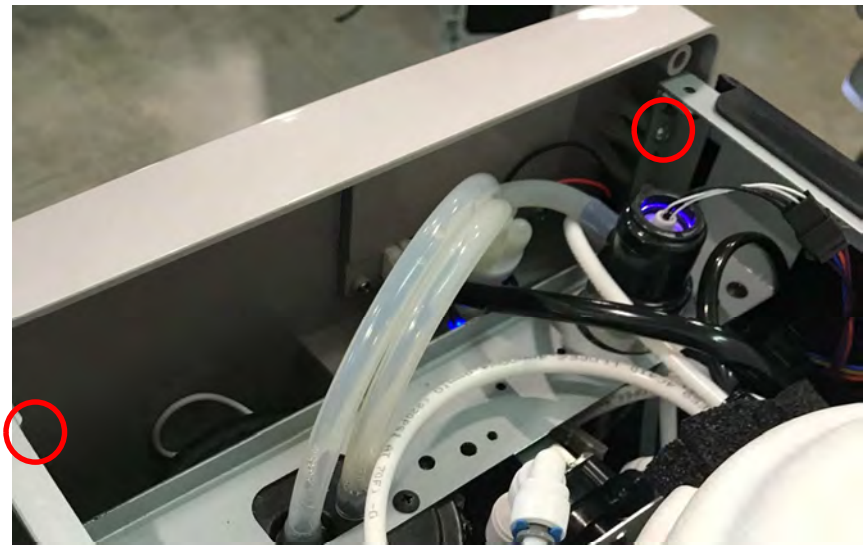
As water collects in the drip tray, it is directed down into this collection tank. Once the tank is ready to be emptied, the level sensor will trigger the alarm built into the cap of the tank. It will **chime for 10 seconds, every 10 seconds** until the tank has been emptied and set back in place.

TOUCHLESS MODULE INSTALLATION

Both the **HCA** and **HCS** models of the **WL15** are compatible with an optional **Touchless Module**. This infrared module can be installed for touchless operation of the machine. The following describes how to install the **Touchless Module.** Shown below are the components included in the **Touchless Module Kit.** The Touchless Module comes with a cable already connected to it, and another cable for connecting to the front panel is in the box as well.

Begin by removing the top lid of the machine. Locate the two screws at the back of the top panel, remove, and then slide the panel off the machine.

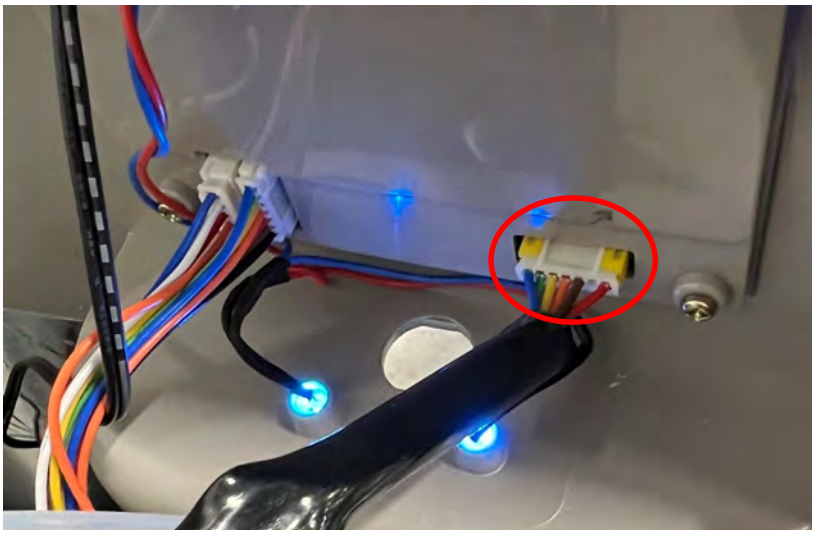
Next, remove the two screws holding the front panel to the frame.



Then remove the decorative ring (unscrews counterclockwise) from the faucet from the outside of the machine and push the faucet up and out of the panel.

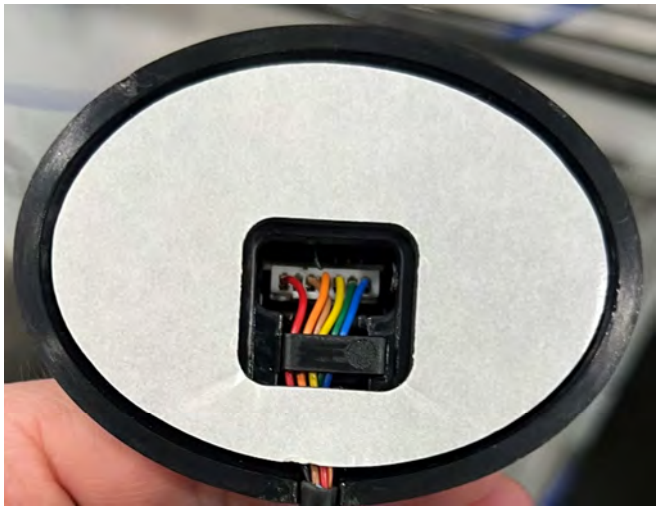
Take the panel removed previously and mark a hole to be drilled out in the desired location of the Touchless Module. The Module will stick to the top lid, covering the hole. Drill a ¾-1” hole in the marked location.

Next, lean the front panel forward and connect the white connector of the 2-point cable to the yellow port on the front panel. Reinstall the faucet and the silver decorative ring, push the front panel back into position and reinstall the screws in the rear top corners.



Pass the other end of the 2-point cable through the hole of the lid and reinstall the lid. Connect the black connector of the 2-point cable to the connector of the Touchless Module wire. At this point, push any excess wire back through the hole.

Remove the adhesive backing on the underside of the Touchless Module and firmly press the module down over the hole with the wires tucked inside.



POWER TROUBLESHOOTING INDEX

1. No Power to Unit, LED Panel does not Illuminate

Possible Cause	Solution
Circuit Breaker tripped	Check the circuit breaker, reset any tripped breaker.
Blown Fuse	Check Fuse in Unit. Replace if necessary. Fuse is located just below the power cable connection external of the machine.
Loose Power Cord	Check that the power cord is properly plugged in.
PCB Failure	Check the PCB for Power incoming and outgoing.

2. Compressor Runs but does not Chill

Possible Cause	Solution
Condenser is dirty	Clean the condensing coil of any obstructions or dust.
Reduction of airflow across condenser coils	Make sure unit is not under minimum ventilation requirements.
Compressor very hot to the touch	Low or lost refrigerant. Refrigerant recharge required.
Condenser Fan Failure	Ensure the Condenser Fan is working properly.

3. Compressor is not Running

Possible Cause	Solution
Compressor Starting Circuit	Remove cap on side of compress, inspect for damage or defects.

4. Unit has Power, but Water is not Chilled and Heated

Possible Cause	Solution
Transformer Failure	Replace Transformer
PCB Power Cable Connected Improperly	Check connection of power line to the PCB
PCB Failure	Replace PCB

5. Unit has Power, Front Panel Does Not Illuminate or only partially Illuminates

Possible Cause	Solution
LED Failure	LED boards may have failed, inspect and replace as needed.
LED Panel Connection	Ensure the connections from the Front Panel LED boards to the main PCB are made properly and secure.

DISPENSE TROUBLESHOOTING INDEX

1. Dispensing won't stop when not holding the Dispensing Button

Possible Cause	Solution
PCB Failure	Inspect main PCB, **replace** if necessary.
Dispense Button Failure	Inspect dispense switch and connection to PCB
Debris in Solenoid	Inspect 4-solenoid dispensing bank.

2. Water does not Dispense from Unit

Possible Cause	Solution
Closed Water Supply Valve	Ensure the water supply valve is open.
Unit is not properly plugged into power	Check electrical connection. Check for blown circuit breaker. Check for blown fuse.
Water is present in the bottom tray, triggering the leak detection alarm.	Ensure bottom tray is dry. If water is present, drain water from Leak Detector basin to allow water to flow again.
Exhausted/Plugged Filter	Inspect Filters and replace as needed.

3. Steady Drip out of Faucet

Possible Cause	Solution
Debris in Solenoid	Inspect all of the 4 dispensing solenoids and clean/flush as needed.
Hot Tank scale buildup	Descale the hot tank.

4. Irregular/Intermittent Dispensing

Possible Cause	Solution
Loose or bad connection from solenoid to PCB	Check to make sure this connection is made properly and tight.
Solenoid	Solenoid may have debris keeping it from closing completely. Check for obstruction and clear/flush as needed.
Dispense button is broken/damaged	Inspect Dispense switch for damage and power.

5. Small amount of water periodically dispenses from the faucet automatically

Possible Cause	Solution
Solenoid Malfunction	Inspect Dispensing Solenoids for proper function. Replace as necessary.

6. Low Flow of water

Possible Cause	Solution
Tanks close to empty	Give the tanks time to refill.
Carbonator pump failure	If low flow of only sparkling water, check carbonator pump for proper operation.
Filter failure/plugging	Filters that have failed or are plugged will create large pressure drop across them. Replace filters as needed.
Restrictions	Ensure flow path is unrestricted due to blockages, malfunctioning valves, etc.

7. Dispenses Hot and Cold/ Hot and Ambient Water at the same time

Possible Cause	Solution
Hot, Cold, or Ambient Solenoid Malfunction	Check all three solenoids for proper function.

SPARKLING TROUBLESHOOTING INDEX

1. Sparkling Water Dispenses very slowly

Possible Cause	Solution
Gas is shut off	Ensure the Gas Bottle Valve is open.
Gas Bottle is empty	Ensure the Gas Bottle has gas pressure.
Carbonator pump failure	Ensure proper operation of the carbonator pump

2. Carbonation of Water is Weak

Possible Cause	Solution
Gas Bottle is almost empty	Ensure the Gas Bottle has decent pressure. Replace if empty.
Sparkling Water made with ambient water	Dispense several liters of sparkling water and let it regenerate with Cold water.

ADVANCED TROUBLESHOOTING INDEX

1. Tanks will not fill

Possible Cause	Solution
Feed Water Shut Off	Ensure feed water line is open and flowing.
Unit is not powered	Ensure Unit has a stable energy source connection.
Clogged Filters	Inspect Filters and replace as needed.
Leak Detection Basin Flooded	Inspect bottom tray for standing water. If present, drain Leak Detection basin. Water should begin flowing once cleared.
Carbonator Pump Failure	Inspect Carbonator pump for proper function and connection to main PCB.

2. Hot water Dispenses, but is NOT Hot

Possible Cause	Solution
Overload Thermostat Tripped	Manually reset the Overload Thermostat on the Hot Tank.
Hot Tank High Limit Thermostat Failure	Inspect the Hot Tank High Limit thermostat and ensure proper function and connection to the main PCB. Replace as needed.

3. Cold Water Dispenses, but is NOT Cold

Possible Cause	Solution
Condenser is dirty	Clean the condensing coil of any obstructions or dust.
Compressor very hot to the touch	Low or lost refrigerant. Refrigerant recharge required.
Condenser Fan Failure	Ensure the Condenser Fan is working properly.