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Better thinking. Better water.

WL2FL FIREWALL
MANUAL

waterlogic
PUREZZA™ PREMIUM WATER

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WL2FL MANUAL

Congratulations on your choice of the ***Waterlogic WL2FL Water Treatment System.*** The ***WL2FL Water Treatment System*** model dispenses cold, and hot. Every ***WL2FL Water Treatment System*** includes:

High Performance Multi-Stage Filtration

Bio-Cote Anti-Microbial Protection

Firewall Advanced Purification

The ***Waterlogic WL2FL 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 ***Water Purification System***. Contact ***Waterlogic*** or an ***Authorized Waterlogic Dealer*** if you have any questions.

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

Waterlogic Water Purification 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.

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.

Waterlogic technical manuals cover voltages of both 120v and 220v for all our markets. Please ensure that you carefully read the information in this manual and for any parts specific to any market, refer to your technical agreement or specific part listing.

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

⚠ **WARNING!** ***AUTHORIZED USE ONLY.*** *This appliance is to be used for its intended purpose as described in this manual, and untrained individuals who use this manual assume the risk of any resulting property damage or personal injury. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.*

⚠ **WARNING!** ***SUPERVISE CHILDREN.*** *Keep appliance and cord out of reach of children under the age of 8years. Children under the age of 8 years must not use or play with the appliance.*

⚠ **WARNING!** ***DO NOT OPERATE IF DAMAGED.*** *Unplug for safety. Contact Waterlogic or authorized dealer for repair, service, and installation to avoid hazards.*

⚠ **WARNING!** ***HOT WATER. Unit produces Hot Water in excess of 87°C (188°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.*

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.*

WARNING! ***AUTHORISED USE ONLY.*** *This appliance is to be used for its intended purpose as described in this manual, and untrained individuals who use this manual assume the risk of any resulting property damage or personal injury. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.* ***Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.***

Children should be supervised to ensure that they do not play with the appliance

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. Appliances that are obviously damaged must not be operated. Replacement of the UV-C emitter can not be conducted by the user, please contact Waterlogic for assistance or help finding an Authorized Service Representative.

Read the maintenance instructions before opening the appliance

Appliance must be disconnected from the supply before replacing the UV-C emitter.

WARNING! ***UV-C EMITTER (UV LAMP).***
Do not operate the UV-C emitter when it is removed from the appliance enclosure

WARNING! ***USAGE.*** *This appliance is intended to be used in household and similar applications such as: staff kitchen areas in shops, offices and other working environments; farm houses and by clients in hotels, motels and other residential type environments; bed and breakfast type environments; catering and similar non-retail applications.*

⚠ **WARNING!** ***REFRIGERANT.*** *Caution with cooling fluid: Do not damage the cooling circuit, Waterlogic machines use both R134a and R600a (market dependent) as cooling gas. R600a is a flammable gas, precaution is required, and only qualified and certified personnel should empty, replace or fil the machines with R134a and R600a refrigerant gases.*

Ensure always the proper management and transportation of the machine to avoid damaging the refrigerant fluid and causing a dangerous leak.

Discarded appliance should be isolated from fire sources and cannot be burned.

Please transfer the appliance to qualified professional recycling companies for processing to avoid damages to the environment or other hazards.

⚠ **WARNING!** ***VENTILATION.*** *Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.*

⚠ **WARNING!** ***REFRIGERANT.*** *Do not damage the refrigerant circuit.*

⚠ **WARNING!** ***STORAGE.*** *Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.*

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

⚠ **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. System is designed for the supplemental bactericidal treatment of public drinking water, or other drinking water, which has been tested and deemed acceptable for human consumption by the water provider. The system is designed to reduce normally occurring non-pathogenic or nuisance microorganisms only. System is not intended for treatment of contaminated water.*

⚠ **WARNING!** ***TIP HAZARD.*** *Dispenser could tip or fall causing serious injury. Always install unit on a firm, flat, and level surface and secure the* ***WL2FL Water Treatment System*** *to the base cabinet with the screw provided to lock the components together. 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 and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use to eliminate any potential microbiological contaminates

⚠ **CAUTION!** ***INDOOR USE ONLY.*** *Intended for household use only. Never expose to direct sunlight, heat sources, or ambient air temperature above 30°C (86°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 (50mm minimum) to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit.*

Installs where the ambient temperature exceeds 25°C (77°F), require a minimum of 100mm 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 2.5 to 3Bar. Be aware of any potential pressure surges caused by building/municipal pumping stations. 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 to minimize risk.*

⚠ **CAUTION!** ***USE PROPER SUPPLY LINES AND FEED WITH POTABLE AMBIENT WATERONLY.***
Feed water over 25°C (77°F) may damage the treatment components. Always use supply lines with adequate pressure rating and UV resistance. Close water supply valve and contact service representative if a leak is noticed.

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

WL2FL FEATURES AND BENEFITS

Ambient, Cold and Hot Water

Cold and Hot Selections, which can be changed to Ambient and Cold settings to meet a wide range of customer demands.

High Volume Storage and Water Capacity

Free standing model has 4 Litres of Cold Water Capacity and 1.5 litres of Hot Water.
Mini model has 2 Litres of Cold Water Capacity and 1.5 litres of Hot Water.

BioCote®Anti-Microbial Protection

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

Large Dispense Area with Recessed Faucet

230mm dispense height with BioCote® recessed faucet to protect from cross-contamination.

Child Safeguard

WL2FL Water Treatment Systems requires Hot Water selection followed by main dispense for Hot Water, and defaults back to cold selection after 3 seconds of inactivity to prevent accidental dispensing of hot water.

Energy Saving Sleep Mode

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

Firewall™

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

WL2FL CERTIFICATIONS

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

WL2FL Water Treatment System Certifications Include

This system is certified by IAPMO R&T according to NSF/ANSI 42, NSF/ANSI 53*, NSF/ANSI 55 Class A, NSF/ ANSI P231, US EPA Guide Standard and Protocol for Testing Microbiological Water Purifiers for the reduction of the contaminants on the Performance Data Sheet, NSF/ANSI 372 for lead free compliance.
See the performance data sheet for specific reduction claims.
System claims vary depending on filters used within the system.
*when using Waterlogic 1 Micron CBC Filter (FT-0065 or FT-0034).

UL399 – Certified Drinking Water Cooler
Intertek Labs (ETL) Certified the ***WL2FL Water Treatment System*** to ANSI/UL 399 Standard for Drinking Water Coolers.

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

Waterlogic is certified to ISO 9001:2008 – 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.

MODEL/PART DESIGNATIONS

BRAND NAME	DESCRIPTION	MODEL – PART NUMBER
WL2FL Free Standing	***Waterlogic WL2FL Free Standing*** - Cold and Hot F-2FW-FS-HC & F-2FX-FS-HC	WL 2FW FS WL 2FX FS
	Waterlogic WL2FL Free Standing - Cold and Ambient F-2FW-FS-CA & F-2FX-FS-CA	
	Waterlogic WL2FL Free Standing – Cold F-2FW-FS-C & F-2FX-FS-C	
WL2FL Mini	***Waterlogic WL2FL Mini*** - Cold and Hot F-2FW-M-HC & F-2FX-M-HC	WL 2FW M WL 2FX M
	Waterlogic WL2FL Mini - Cold and Ambient F-2FW-M-CA & F-2FX-M-CA	
	Waterlogic WL2FL Mini - Cold F-2FW-M-C & F-2FX-M-C	
WL2FL Tall	***Waterlogic WL2FL Tall*** - Cold and Hot F-2FX-FT-HC	WL 2FX FT
	Waterlogic WL2FL Tall - Cold and Ambient F-2FX-FT-CA	

SPECIFICATIONS

ITEM	***WL2FL*** Mini	***WL2FL*** Free Standing
Power Supply	220V/50Hz or 120V/60Hz	
Water Connection	¼" Quick Connect	
Cold Water Temperature	Cold Water Temperature – Factory Set Point 5°C (41°F)	
Cold Tank Size	Mini - 2 Litres Free standing – 4 Litres	
Hot Water Temperature	87°C (187°F)	
Hot Tank Size	1.5 litres	
Hot Water Manual Reset Overheat	105°C (221°F)	
Recommended Incoming Feed Pressure	2.5Bar – 3Bar – Use Pressure Regulator	
Maximum Service Pressure	3Bar – Use Pressure Regulator	
Rated Service Flow Out	1.89 Litres per Minute – Firewall Purification	
Environmental Temperature	2°- 25°C (35°- 77°F)	
Climate Class	220V available in both Class T and N	
UV Lamp	15 Watts	15 Watts
Heater	500 W	
Refrigerant Gas	220v = R600a 20g 120v = R134a 1.52oz	220v = R600a 20g 120v = R134a 1.34oz

SHIPPING SPECIFICATIONS

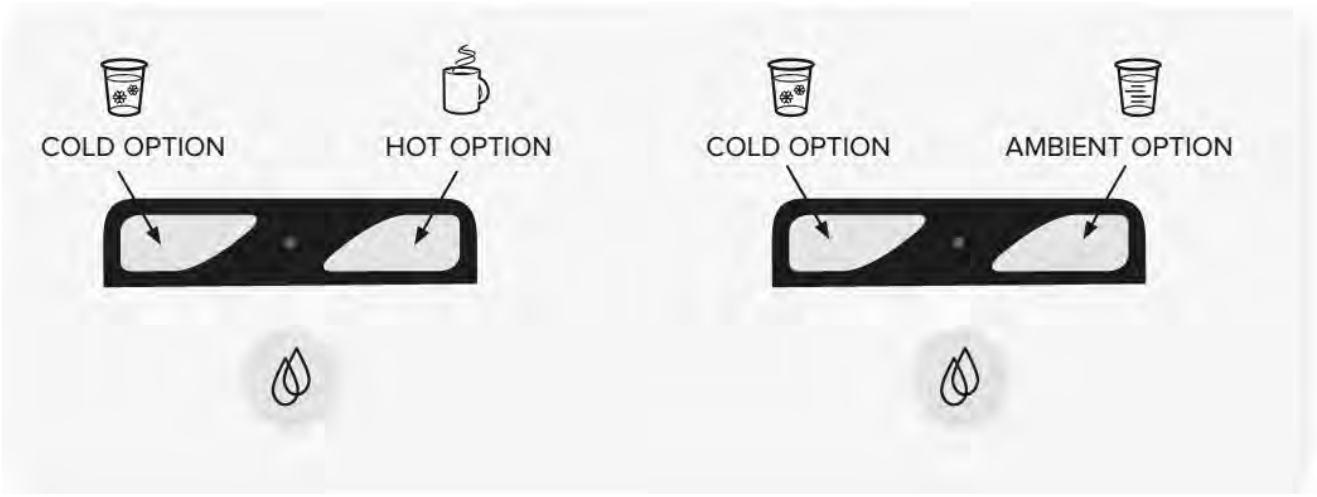
ITEM	*WL2FL* Mini	*WL2FL* Free Standing	*WL2FL Tal*
Width/Depth/Height	34cm x 37cm x 45cm 13.5" x 14.5" x 17.75"	34cm x 41cm x 104cm 13.5" x 14.5 x 41"	34cm x 41cm x 118cm 13.5" x 14.5 x 46"
Weight (dry)	26.3 kg (58 pounds)	30 kg (66 pounds)	32kg (70 pounds)

ELECTRICAL SPECIFICATIONS

220V-TT and ES	TT	ES
COMPONENT	**POWER (approximate)**	**POWER (approximate)**
Heater	500 Watts	800 Watts
Compressor	100 Watts	100 Watts
UV Lamp System	15 Watts	15 Watts
***WL2FL* TOTAL**	**640 Watts**	**930 Watts**

120V-TT	TT
COMPONENT	**Current (approximate)**
Heater	4.2 Amps
Compressor	1.4 Amps
UV Lamp System	0.3 Amps
***WL2FL* TOTAL**	**5.9 Amps**

OPERATING INSTRUCTIONS



The above picture shows front LCD display and control panel for the ***Waterlogic WL2FL***.

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

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

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

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

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

SERVICE REQUIREMENTS

⚠ **WARNING!** ***Read and understand the contents of this manual before attempting to service WL2FL 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 6 months.

   ⚠ **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 Spiral 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.*

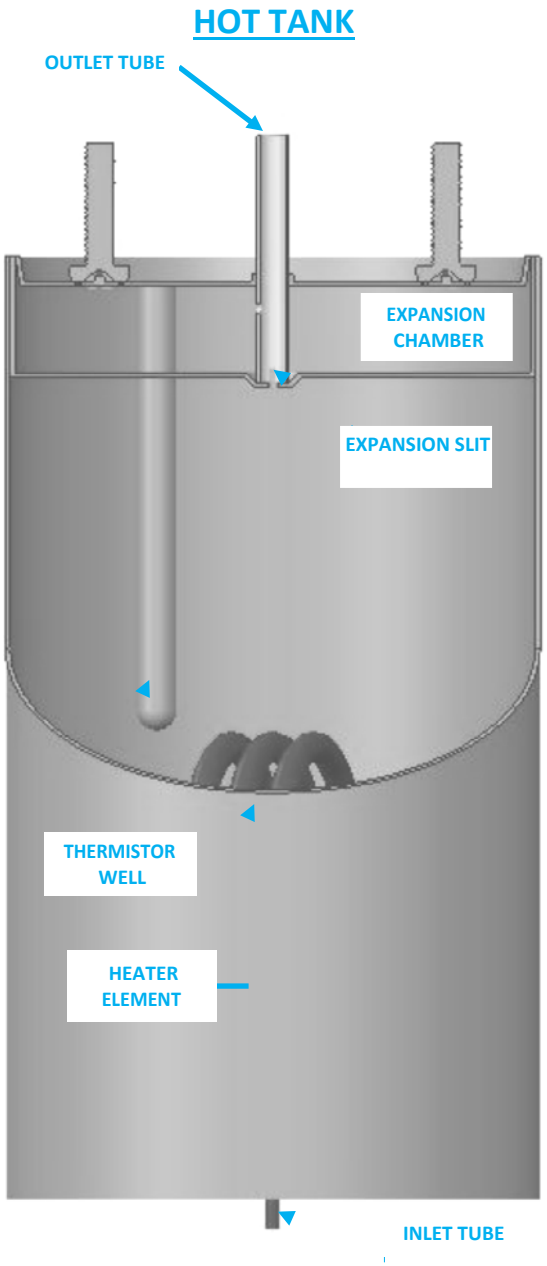
4. Sanitize the Cold Tank per instructions in the pre-delivery procedures.

5. Clean and sanitize external surfaces of the unit. Sanitizing chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.

6. Remove and clean the Faucet. Replace as needed.

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

HOT TANK PRINCIPLES OF OPERATION



All ***Waterlogic*** Hot Tanks have a built-in Vent or Expansion Chamber in the top of the tank except for WL1000GF 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.

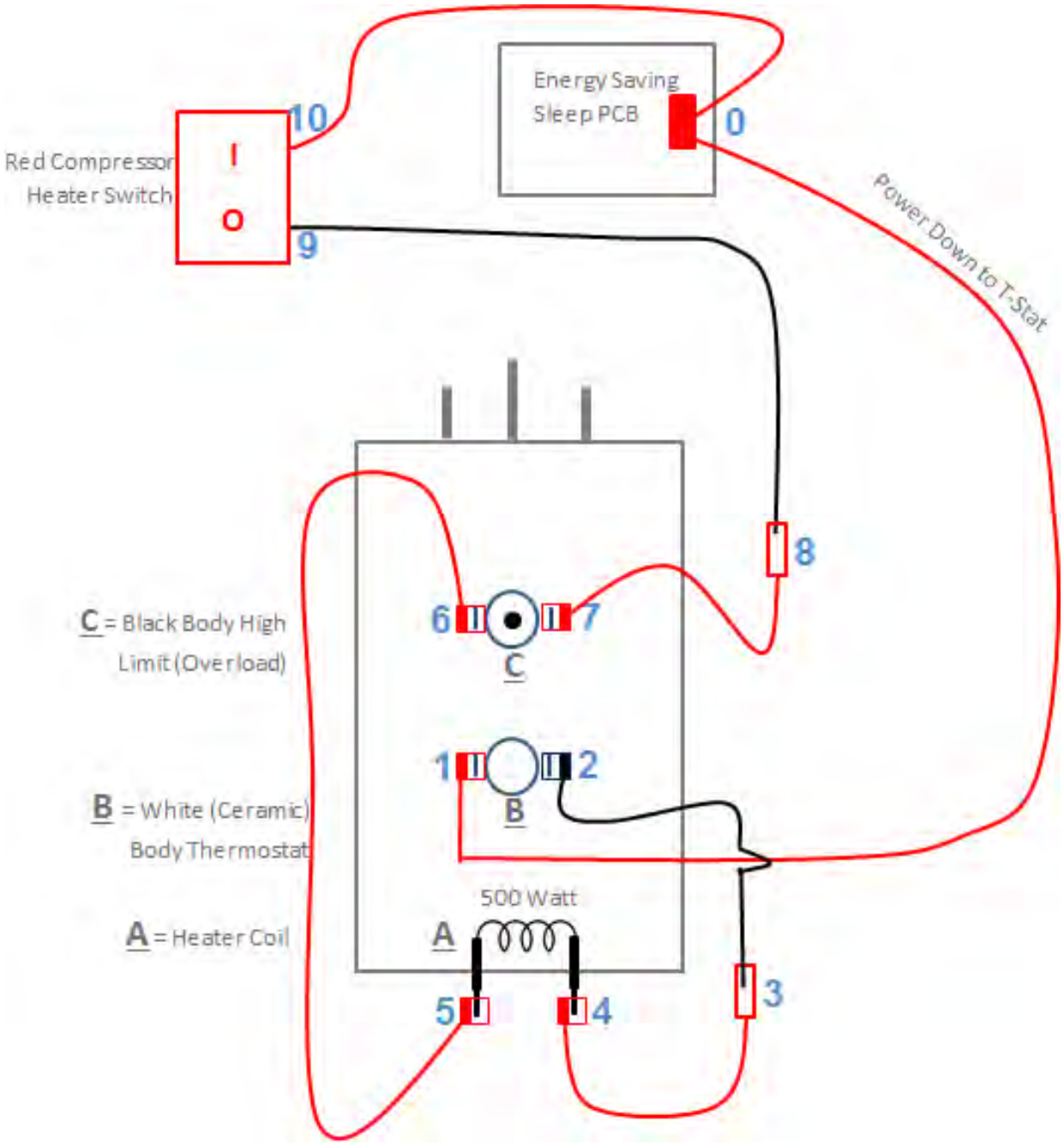
Expansion of water as it is heated in the reservoir will push the water out the faucet when the outlet tube vent hole becomes plugged with debris or scale.

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

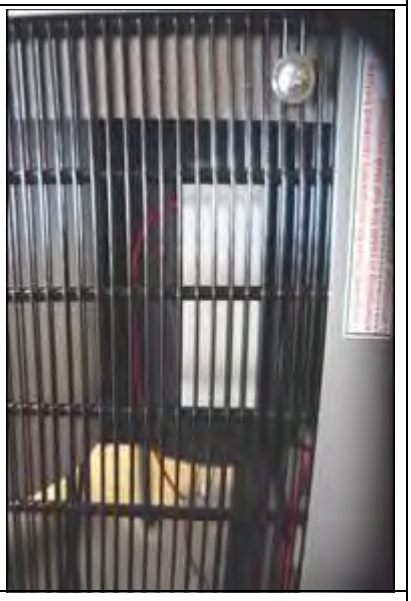
It is critical to descale the hot tank through the vent line and outlet line on a regular basis to prevent this problem.

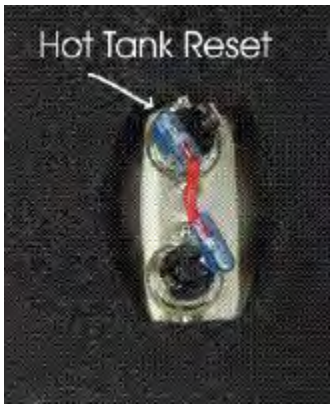
Descaling through the inlet and/or outlet lines only will not clean the vent chamber and outlet vent hole properly.

HEATER CIRCUIT – HOT TANK WIRING



RESETTING THE HOT TANK OVERHEAT OR HIGH LIMIT SAFETY

1.	Red Compressor/Heater Switch must be in the *O=OFF* position 
2.	Unplug the Power Cord from rear of ***WL2FL Water Treatment System.***
3.	Free Standing Model: Remove the Lower Front Panel by removing the Phillips Head Screws underneath the Lower Front Panel. Mini Model: Remove the Side Panel by removing Phillips Head Screws from Side Panel.
4.	Locate the Protective Metal Box on the rear of the hot tank. As you look through the condenser coils on the rear of the unit, you will see the hot tank located on the right-hand side. 
5.	From the front of the Water Treatment System, reach up behind the hot tank and take hold of the protective metal box covering the thermostat and overheat on the hot tank. There are nuts that secure the Protective Metal Box to the Hot Tank, are loose enough to allow you to remove the Protective Metal Box. If the nuts on the metal box are too tight, loosen the nuts securing the Hot Tank to the upper base of the ***WL2FL Water Treatment System*** unit and lower the Hot Tank so you can remove the Protective Metal Box. 

6.	*For demonstrative purposes, photos below have lowered the hot tank from the unit.* Press the reset button  
7.	Reattach the Protective Metal Box by depressing the top flap of the Protective Metal Box so it snaps back into its original position on the Hot Tank.
8.	Replace the Lower Front Panel.
9.	Plug in the Power Cord.
10.	Turn on the Red Compressor/Heater Switch *I=ON* position **The Hot and Cold tanks must be filled with water BEFORE turning on the Red Heater and Compressor Switch.** 
11.	Verify the cooler is fully operational before installing it at the customers' site.

HOT TANK DESCALING INSTRUCTIONS

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

Use non-toxic cleaner such as ScaleKleen, DEZCAL or Citric Acid 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 if 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
- 20 Litre container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 1m in length, and assorted ¼" quick connect fittings
- Empty Cartridge

1. Put descaler solution as per directions into the empty cartridge.

2. Connect descaling cartridge to the inlet water supply and connect to inlet bulkhead fitting on the back of the ***WL2FL 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 (cloudy water) comes out of the faucet. Container and drain basin will be required to catch water from the faucet.

4. Turn off water supply and remove the empty 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 ***WL2FL 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 ***WL2FL Water Treatment System*** is performing to the customer's satisfaction.

⚠ **WARNING!** ***HOT WATER.*** *The* ***WL2FL Water Treatment System produces Hot Water up to 87°C (189°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.*

⚠ **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.*

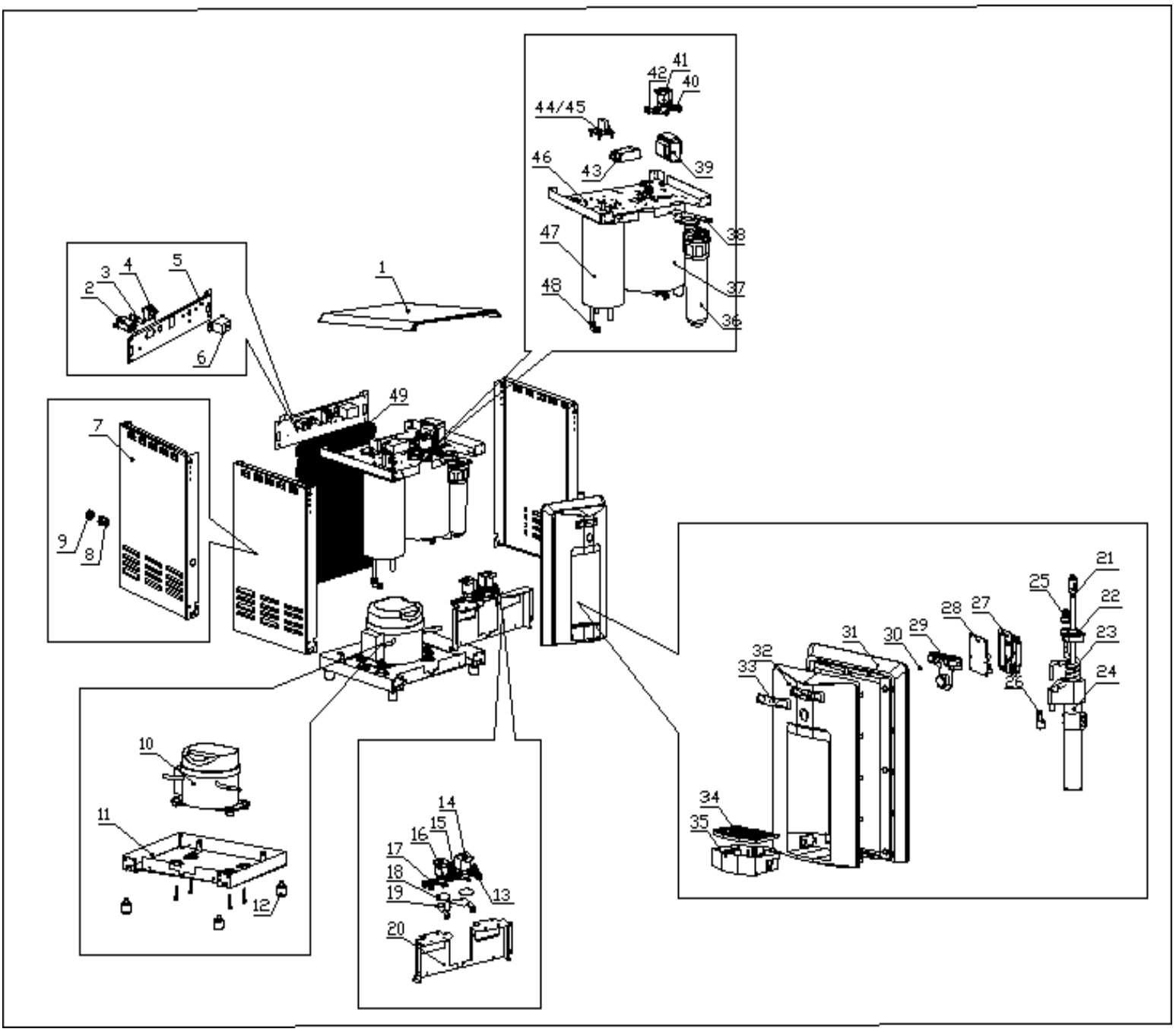
RECOMMENDED SPARES HOLDING

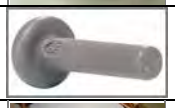
WLI recommends that you order spare parts and consumables at the same time as you order machines to minimise delivery costs. The list below contains the minimum parts WLI recommends that you keep per 10 machines. These recommendations are based upon the servicing and maintenance guidelines, water conditions and use mean more stock may be required.

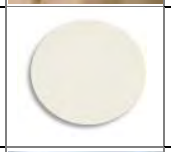
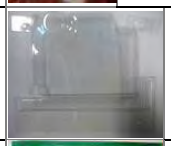
- ***Waterlogic*** technical manuals cover voltages of both 120v and 220v for all our markets. Please ensure that you carefully read the information in this manual and forany parts specific to any market, refer to your technical agreement or specific part listing.

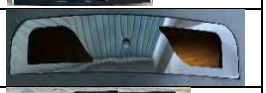
Recommended Spare Part	Amount per 10 machines
1-micron 10" Inline CBC Filter cartridge	10
1-micron 10" GAC Inline Filter cartridge	10
20 Micron Sediment Filter cartridge	10
15w UV Lamp	10
Quartz Spiral for Firewall	10
Solenoid Valve 1000mm (recommend replacing Solenoid Cushion at same time)	2
Solenoid Cushion	2
Hot Water Faucet	2
Main PCB	4
Silicon Button Key Mat	5
Drip Tray Grill	4
Drip Tray	4
UV 15W 220V/50Hz Electronic Ballast	2
Hot Tank 87°C (187°F)	2

WL2FL MINI DRAWING AND PARTS LIST



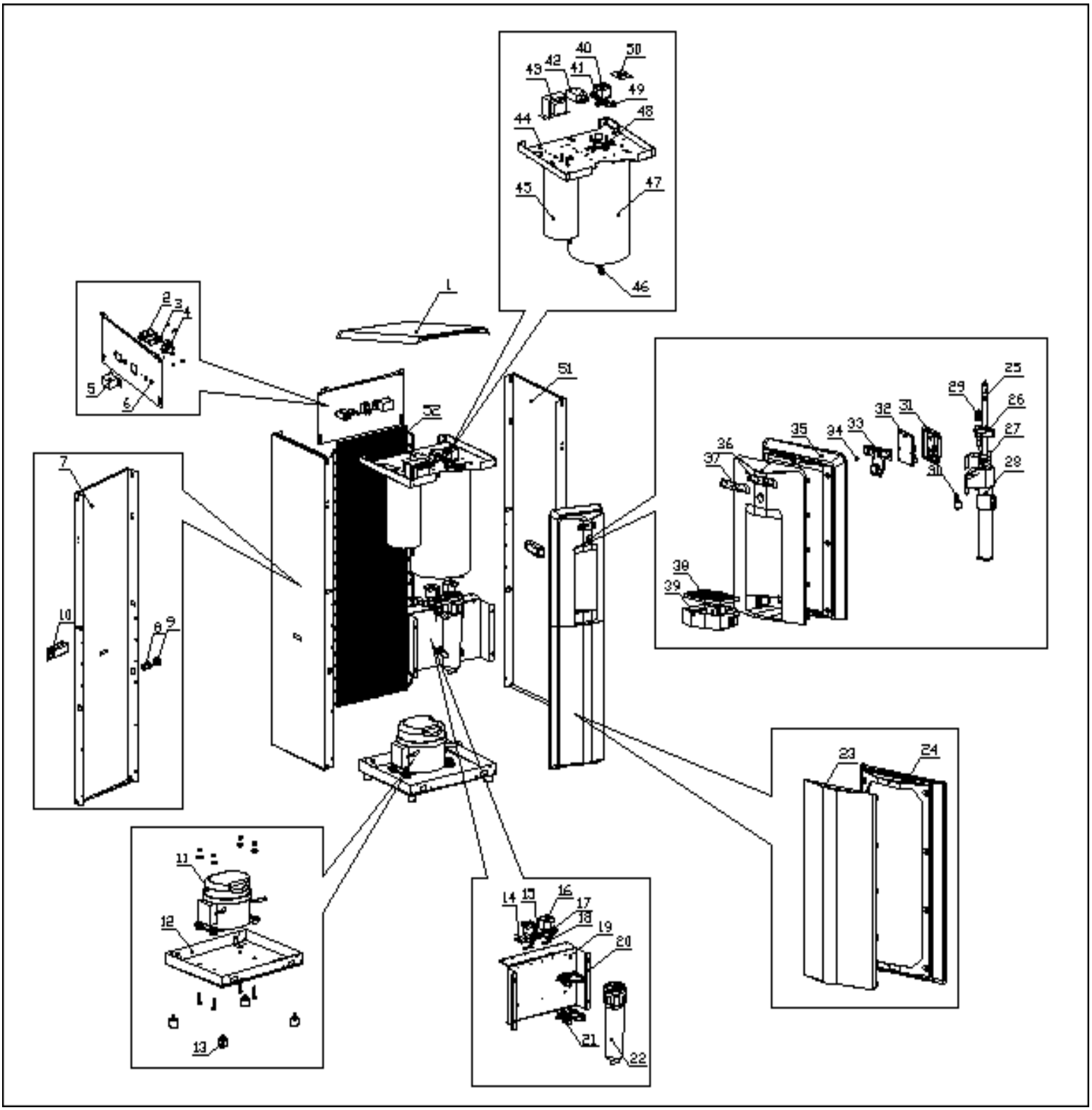
No	Description	Picture
1	Top Cover - black	
2	EMI Filter FN9233-10-06 (FW2 Europe)	
3	Fuse Holder & Fuse 220V/10A with only one wire	
4	Power Switch(Red)-No back lights	
5	WL2000 Mini Back Panel - black texture	
6	Cold Thermostat K50B	
7	WL2000 Mini Side Panel - black texture MINI ONLY	
8	JG Bulkhead Connector Union 1/4" * 1/4"(PI1208S)	
9	Plastic Cap for 1/4" Bulkhead Fitting	
10	R600A Compressor	
11	WL2 Mini Down Base	
12	Unit Control Rubber Feet of WL2	
13	JG Equal Tee Connector 1/4" (PI0208S)	

14	Solenoid Valve DC24V 500mm Mini	
18	Cushion for solenoid valve	
19	WL2 Mini Firewall Solenoid Valve Fixing Bracket	
20	WL2FL Mini - Filter Bracket	
21	15W UV Lamp (WL FW Brand) with 80mm wire + connector	
22	WL2 Firewall UV Lamp Fixing Rubber	
23	Faucet UV -Spiral Quartz	
24	WL2 Firewall Mark IV Stainless Assy (No internal components)	
25	JG 3/8" x 1/4" Reducing Fitting(PI211208S)	
26	WL2 Firewall hot water faucet	
27	WL2 Firewall PCB Cover	
28	WL2 Firewall Display PCB	
29	WL2FL H&C Silicone Button	
30	WL2FL Light pipe for LED	

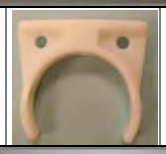
31	WL2FL Front Upper Trim - Silver painted	
32	FW2 FL Front Upper Panel - Black	
33	WL2FL H&C UI Label	
34	WL2FL Drip Tray Grill - black	
35	WL2FL Drip Tray Body - black with WL logo	
36	10" GAC Inline Filter Assembly for Production	
37	Cold Tank Assbl y (2L, No UV holder, No sub-tank)	
38	WL2FL Mini - Inline Fillter Bracket	
39	Power Transformer 230V -1A	
40	JG Equal Elbow Connector 1/4" (PI0308S)	
43	15W 220v/50Hz Electronic Ballast	
44	WL2 Firewall UV Relay PCB(Universal H&C,C&A,CO)	
45	Plastic PCB Support	

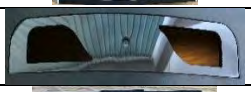
46	**WL2FL Mini - Upper Shelf**	
47	**1.5Liter 220V/500W Hot tank for low cost unit**	
49	**Wire Condenser**	
Not Shown	**1-micron 10" Inline CBC Filter for CTO, CYST + Lead Reduction (Carbon Block)**	
Not Shown	**20 Micron Sediment Filter**	
Not Shown	**CDS Sensor Wire – 2FW**	
Not Shown	**Thermostat and Overheat Metal Cover**	
Not Shown	**Overheat with Manual Reset - 105°C (221° F)**	
Not Shown	**Hot Tank Thermostat - 87°C (187°F)**	
Not Shown	**Firewall UV Female Wire & Connector**	
Not Shown	**CDS Fixing Rubber (Silicon)**	
Not Shown	**Spiral Rubber Buffer**	

WL2FL FREE STANDING DRAWING AND PARTS LIST



NO	Description	Image
1	WL2FL Top Cover - black	
2	EMI Filter FN9233-10-06 (FW2 Europe)	
3	Fuse Holder & Fuse 220V/10A with only one wire	
4	Power Switch(Red)-No back lights	
5	Cold Thermostat K50B	
6	WL2 FS Back Panel - black texture	
7	WL2 FS Side Panel with Handle Hole - Black	
8	JG Bulkhead Connector Union 1/4" * 1/4"(PI1208S)	
9	Plastic Cap for 1/4" Bulkhead Fitting	
10	Plastic Handle Black	
11	R600A Compressor	
12	WL2 Down Base	
13	Unit Control Rubber Feet of WL2	

14	JG Reducing Elbow Connector 5/16" * 1/4" (PI211008S)	
15	Solenoid Valve DC24V 1000mm	
16	JG Equal Tee Connector 1/4" (PI0208S)	
19	Cushion for solenoid valve	
20	WL2 Filter Bracket	
21	2,8" Filter Clip	
22	10" GAC Inline Filter Assembly for Production	
23	WL2FL Front Down Insert Panel - black	
24	WL2FL Front Down Trim - Silver painted	
25	15W UV Lamp (WL FW Brand) with 80mm wire + connector	
26	WL2 Firewall UV Lamp Fixing Rubber	
27	Faucet UV -Spiral Quartz	
28	WL2 Firewall Mark IV Stainless Assy (No internal components)	

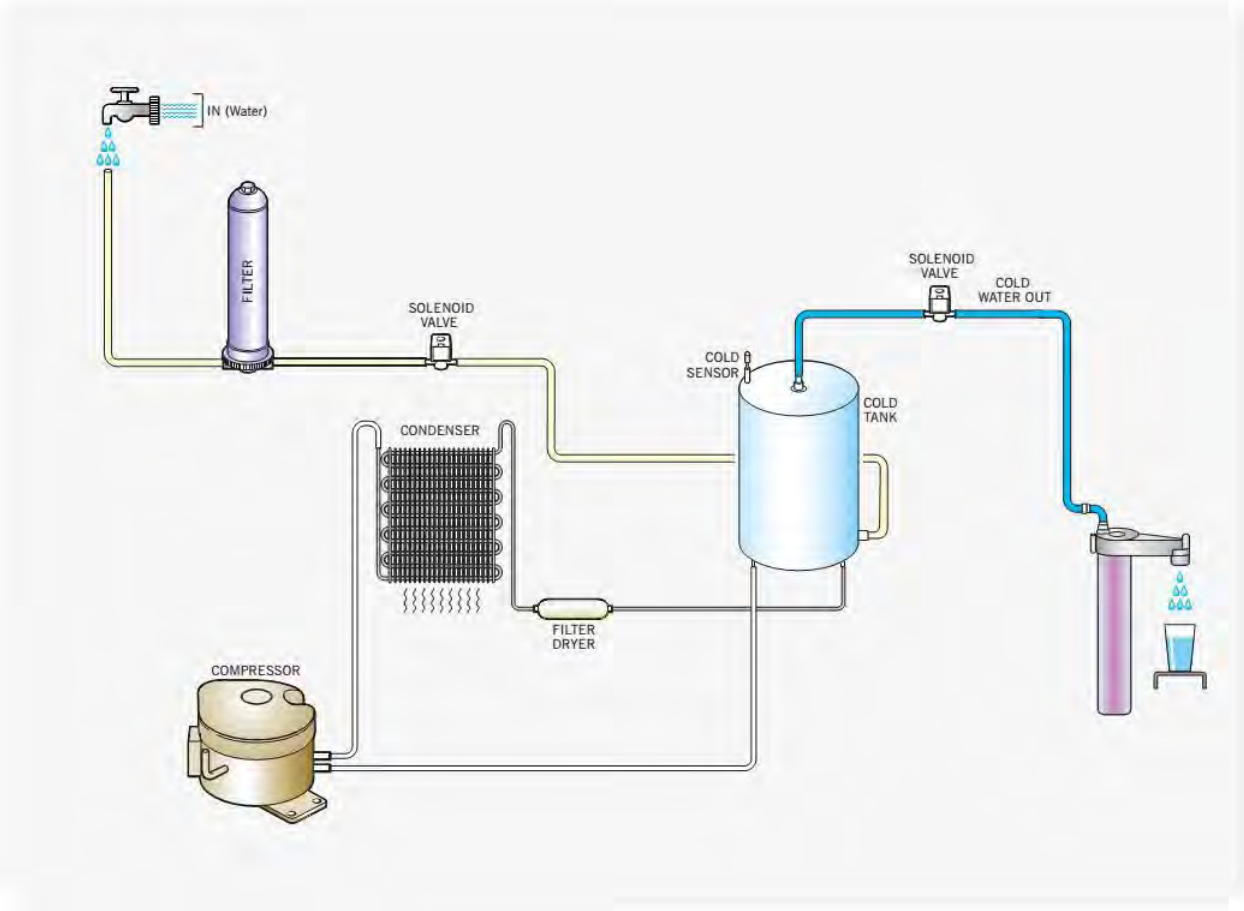
29	JG 3/8" x 1/4" Reducing Fitting(PI211208S)	
30	WL2 Firewall hot water faucet	
31	WL2 Firewall PCB Cover	
32	WL2 Firewall Display PCB(Universal H&C,C&A,CO) Vout(2.5V)	
33	WL2FL H&C Silicone Button	
34	WL2FL Light pipe for LED	
35	WL2FL Front Upper Trim - Silver painted	
36	FW2 FL Front Upper Panel - Black	
37	WL2FL H&C UI Label	
38	WL2FL Drip Tray Grill - black	
39	WL2FL Drip Tray Body - black with WL logo	
40	Solenoid Valve DC24V 500mm Mini	
42	15W 220v/50Hz Electronic Ballast	

43	Power Transformer 230V -1A Leak Detection WL2 (UV)	
44	WL2 FS upper front Shelf (Universal to ST- 8136)-FW	
45	1.5Liter 220V/500W Hot tank	
47	Cold Tank Assembly (4Liters, No UV holder, No sub-tank)	
50	WL2 Firewall UV Relay PCB(Universal H&C,C&A,CO)	
51	WL2 FS Side Panel with Handle Hole - Black	
52	Wire Condenser	
Not Shown	1-micron 10" Inline CBC Filter for CTO, CYST + Lead Reduction (Carbon Block)	
Not Shown	20 Micron Sediment Filter	
Not Shown	CDS Sensor Wire – 2FW	
Not Shown	Thermostat and Overheat Metal Cover	
Not Shown	Overheat with Manual Reset - 105°C (221° F)	
Not Shown	Hot Tank Thermostat - 87°C (187°F)	

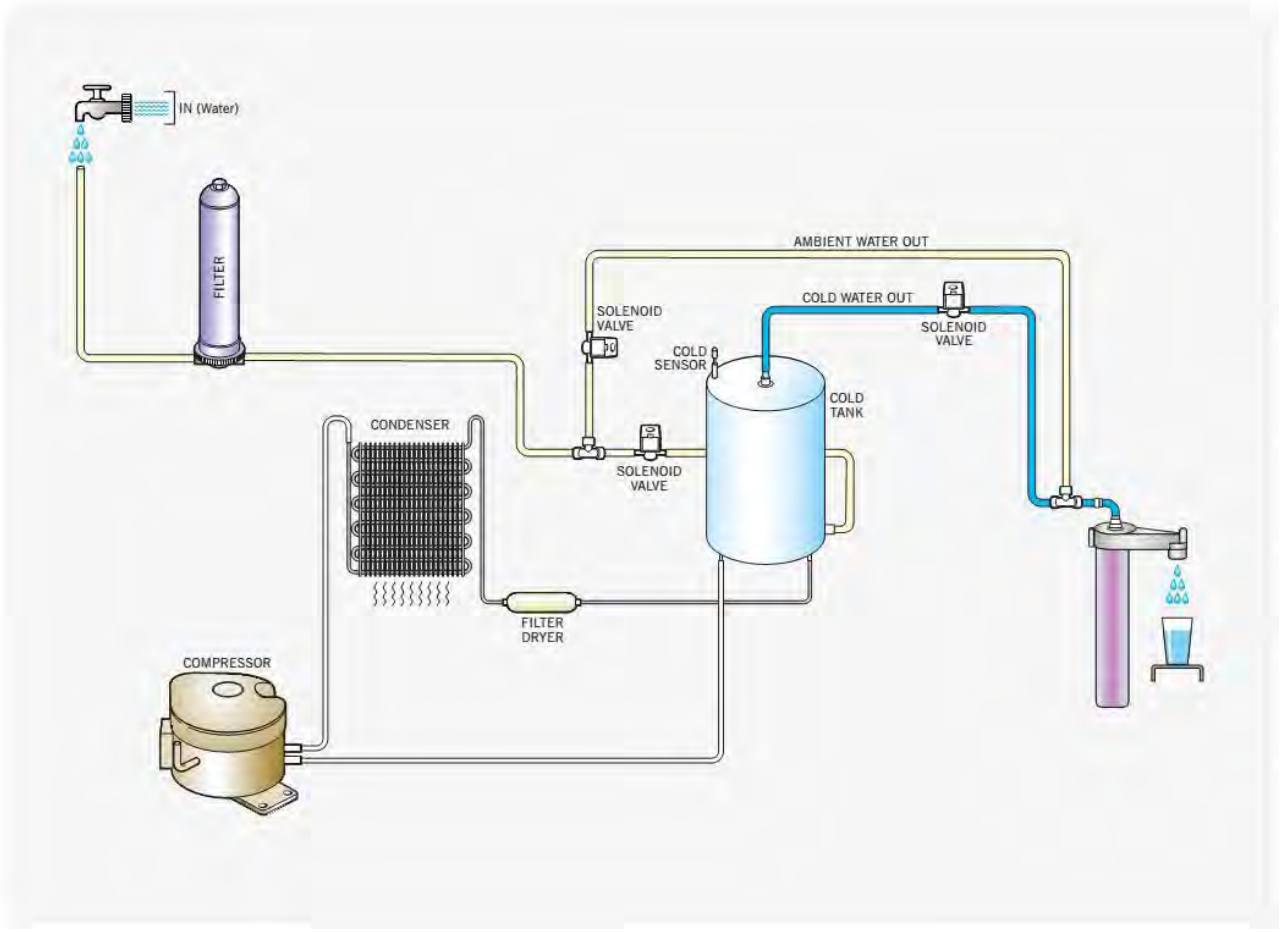
Not Shown	**Firewall UV Female Wire & Connector**			
Not Shown	**CDS Fixing Rubber (Silicon)**			
Not Shown	**Spiral Rubber Buffer**			
Not Shown	**Wire Connector between Hot Tank and Thermostat**			
Not Shown	**Wire Harness Set**			
Not Shown	**Power Cord EU 220V – 1840 mm**			

WL2FL FLOW DIAGRAM

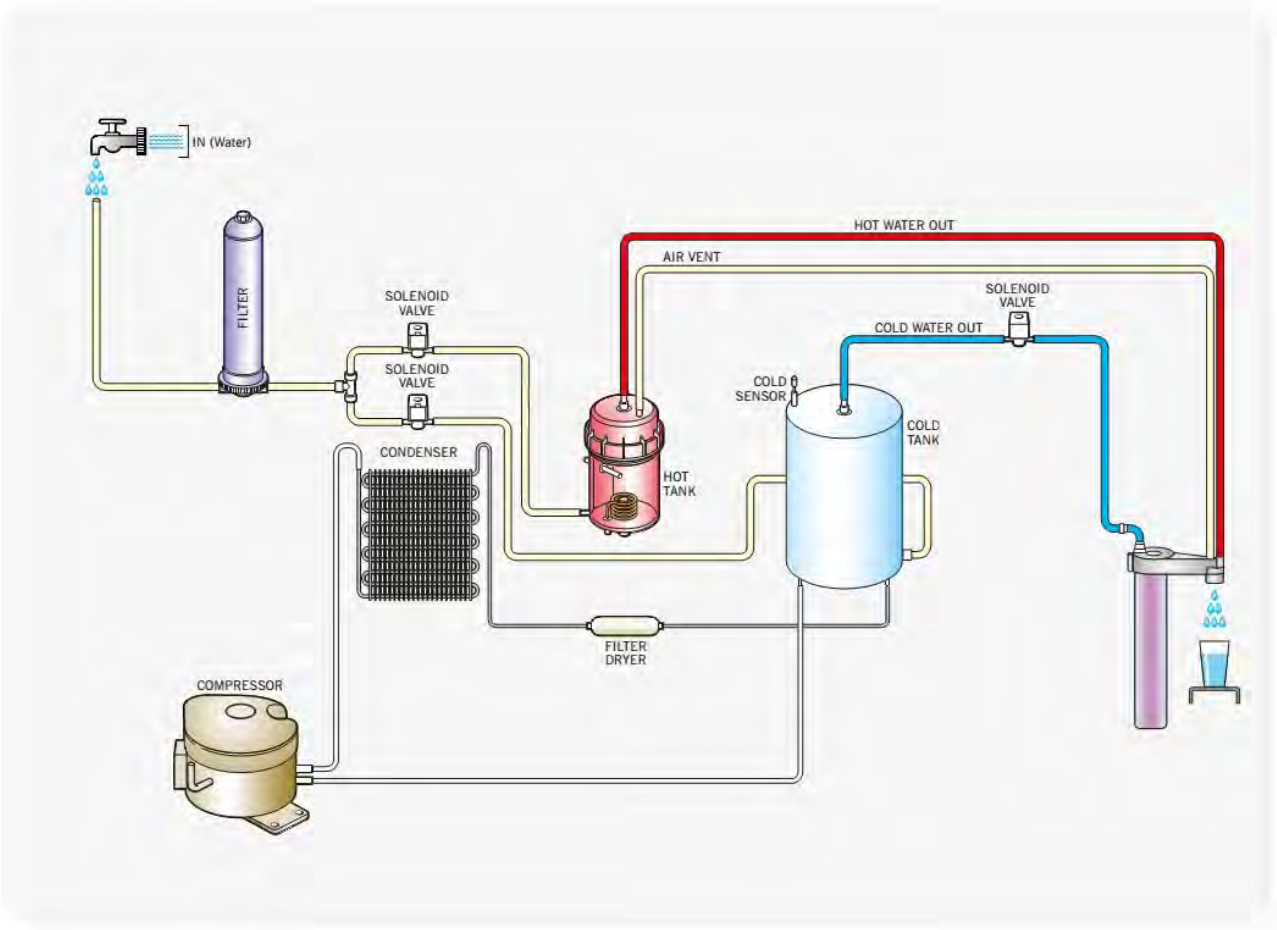
COLD ONLY



COLD AND AMBIENT



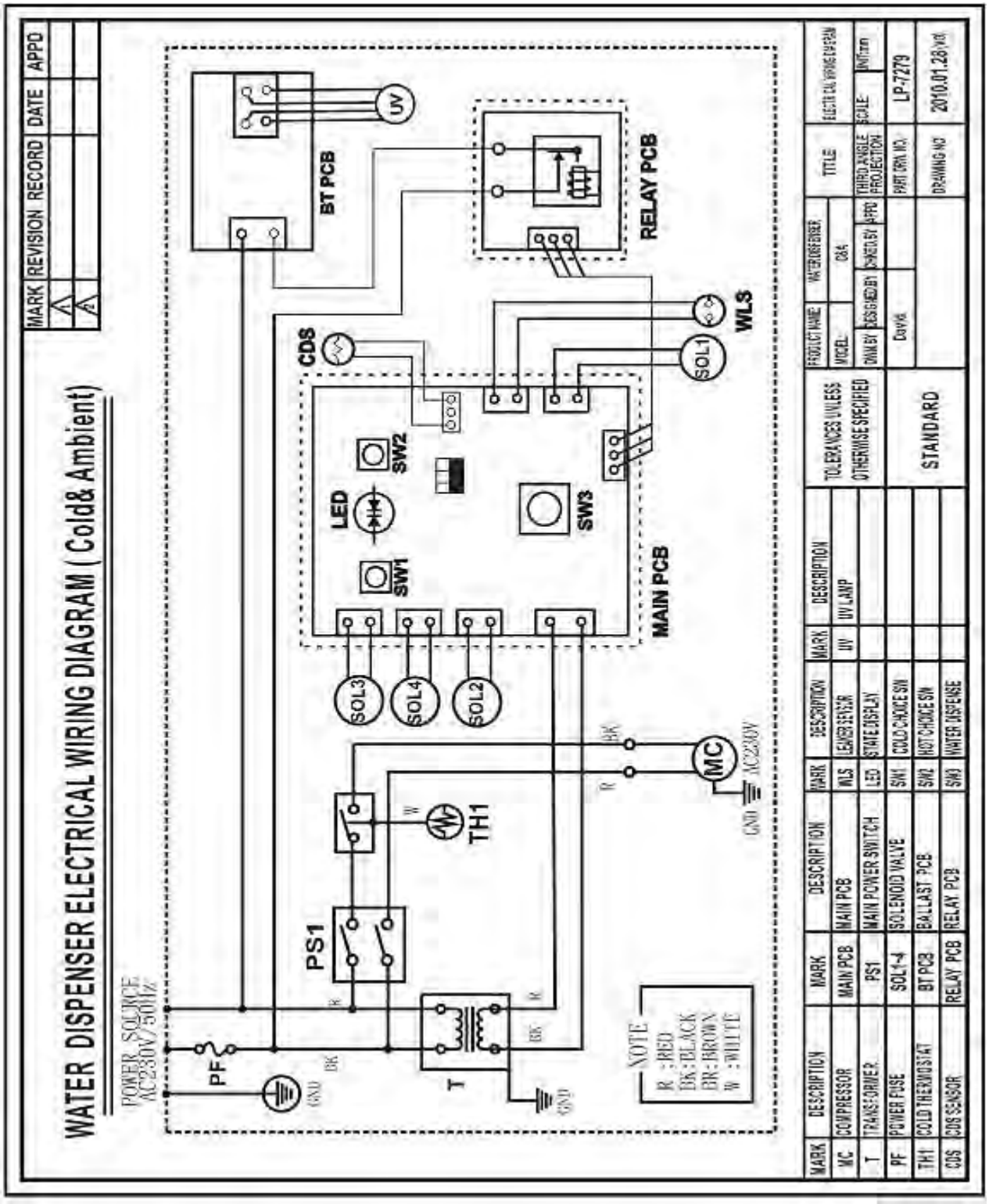
HOT AND COLD

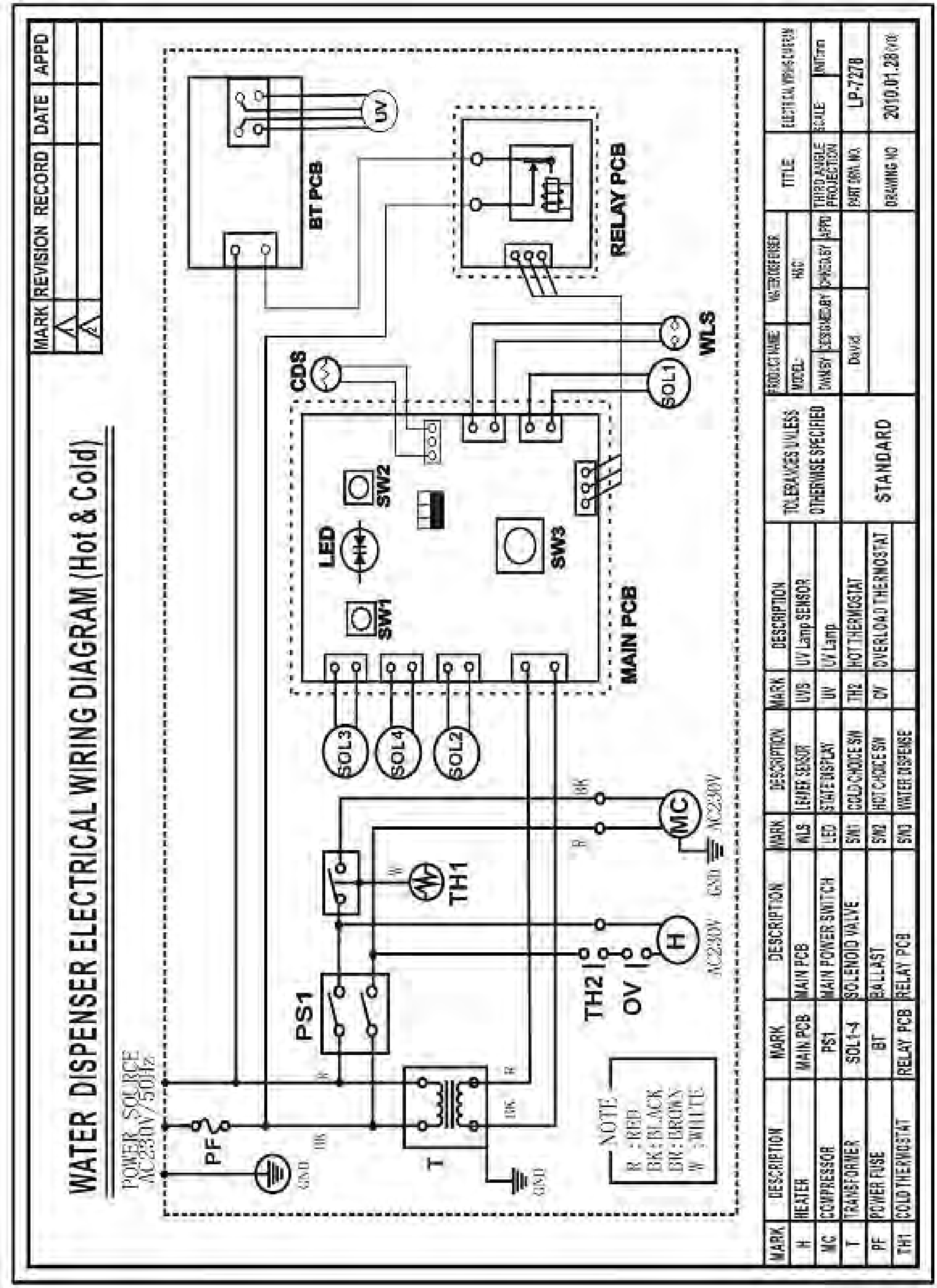

IN (Water)
FILTER
SOLENOID VALVE
SOLENOID VALVE
CONDENSER
HOT WATER OUT
AIR VENT
SOLENOID VALVE
COLD WATER OUT
COLD SENSOR
COLD TANK
HOT TANK
FILTER DRYER
COMPRESSOR

WL2FL ELECTRICAL DIAGRAM

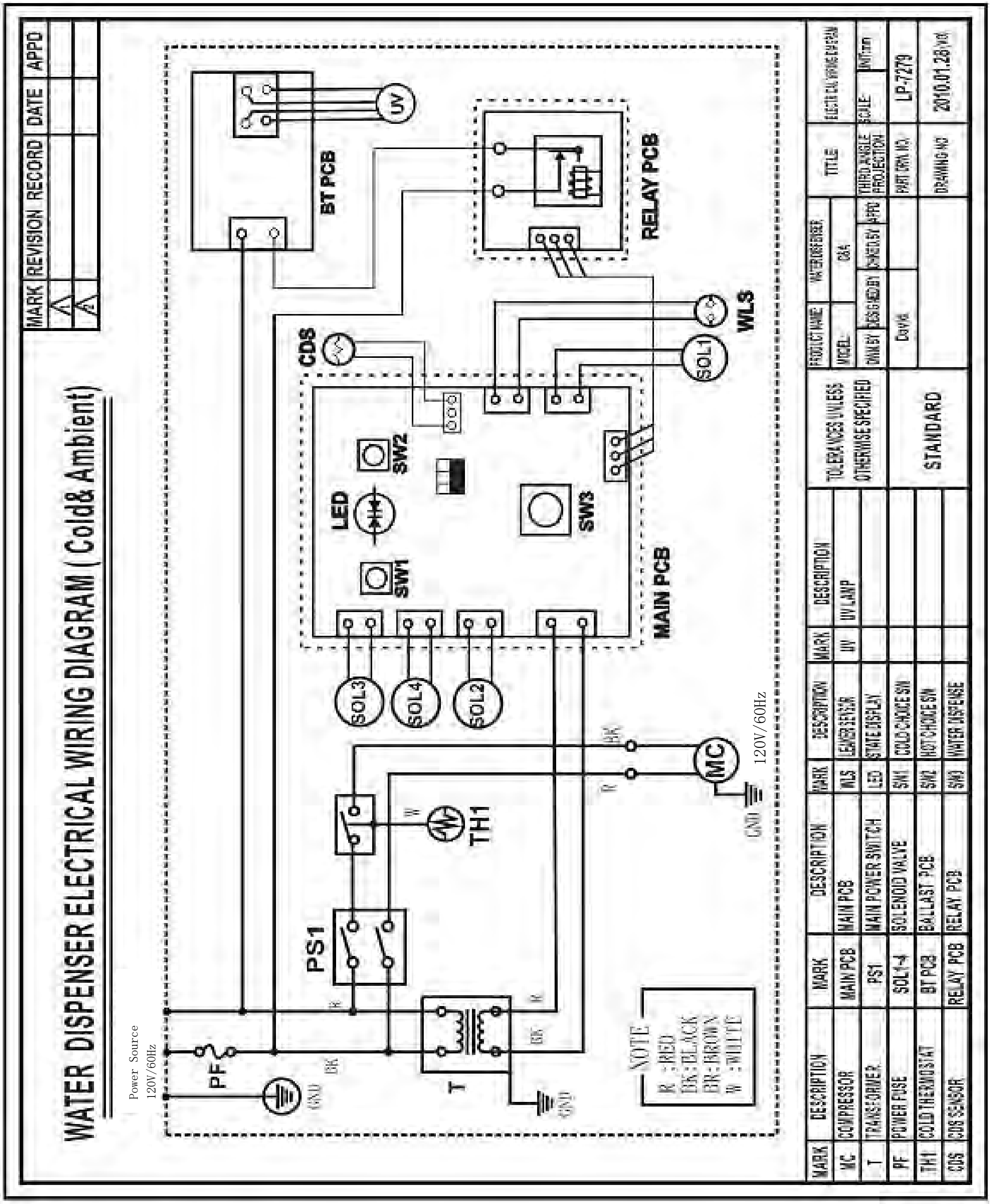
⚠ **DANGER!** ***HIGH VOLTAGE ELECTRICAL HAZARD. PCB (Printed Circuit Board) contains High Voltage. Only trained and qualified technicians should attempt live testing.***

220V/50Hz



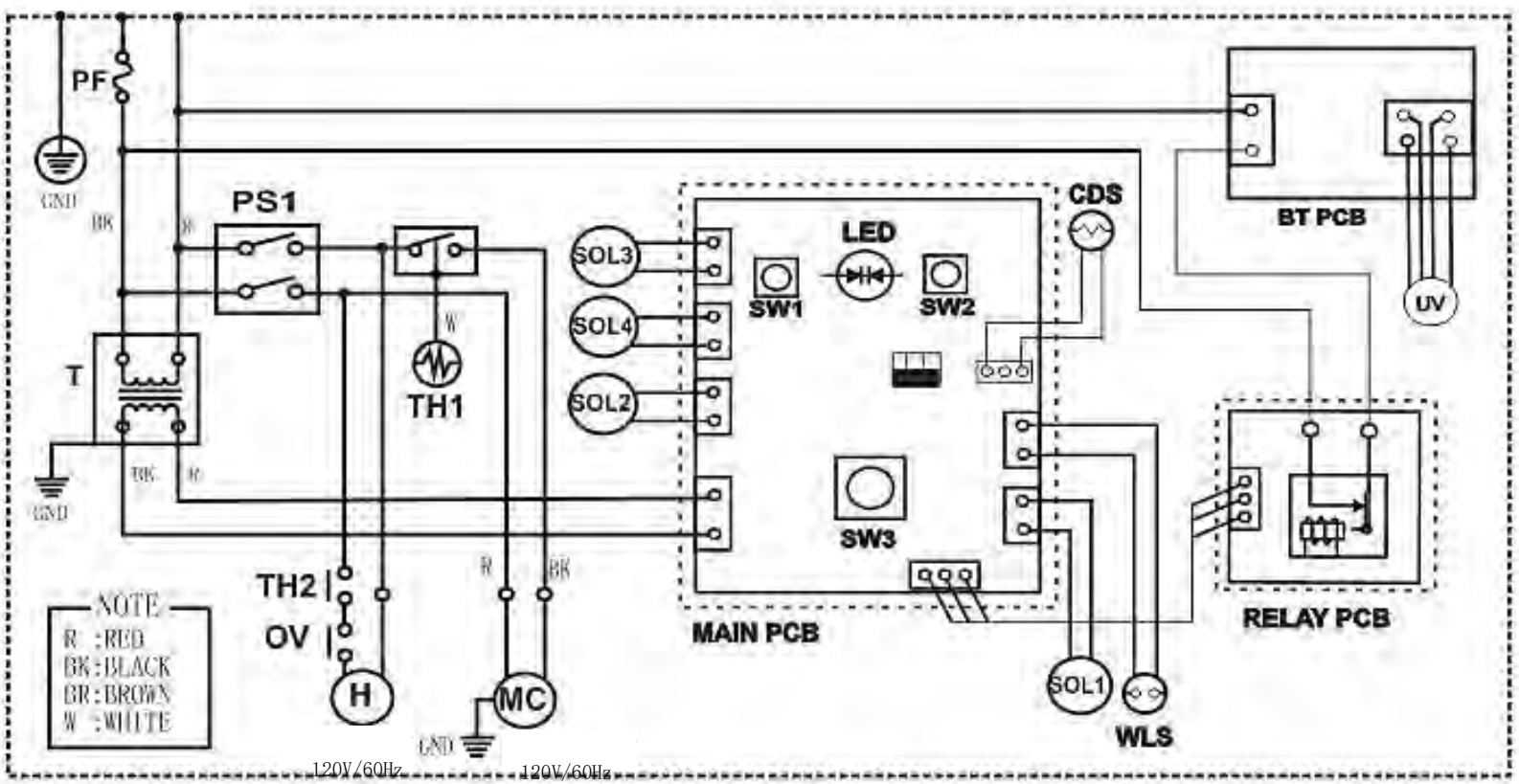

WATER DISPENSER ELECTRICAL WIRING DIAGRAM (Hot & Cold)
MARK
REVISION RECORD
DATE
APPD
POWER SOURCE AC230V/50Hz
PF
GND
BK
R
PS1
T
TH1
W
TH2
OV
H
AC230V
GND
MC
AC230V
R
BK
SOL3
SOL4
SOL2
SW1
LED
SW2
SW3
MAIN PCB
CDS
BT PCB
UV
RELAY PCB
SOL1
WLS
NOTE
R : RED
BK : BLACK
BR : BROWN
W : WHITE
MARK | DESCRIPTION
H | HEATER
MC | COMPRESSOR
T | TRANSFORMER
PF | POWER FUSE
TH1 | COLD THERMOSTAT
MAIN PCB | MAIN PCB
PS1 | MAIN POWER SWITCH
SOL1-4 | SOLENOID VALVE
BT | BALLAST
RELAY PCB | RELAY PCB
WLS | LEVER SENSOR
LED | STATE DISPLAY
SW1 | COLD CHOICE SW
SW2 | HOT CHOICE SW
SW3 | WATER DISPENSE
UVS | UV Lamp SENSOR
UV | UV Lamp
TH2 | HOT THERMOSTAT
OV | OVERLOAD THERMOSTAT
TOLERANCES UNLESS OTHERWISE SPECIFIED
STANDARD
PRODUCT NAME
WATER DISPENSER
MODEL:
DWN BY
DESIGNED BY
CHKED BY
APPD
David
TITLE
THIRD ANGLE PROJECTION
SCALE
UNIT:mm
PART DRW. NO.
LP-7278
DRAWING NO
2010.01.28

120V/60Hz


WATER DISPENSER ELECTRICAL WIRING DIAGRAM (Cold& Ambient)
MARK
REVISION RECORD
DATE
APPD
Power Source
120V/60Hz
PF
GND
T
PS1
TH1
MC
SOL3
SOL4
SOL2
SOL1
SW1
SW2
SW3
LED
CDS
WLS
UV
BT PCB
RELAY PCB
MAIN PCB
NOTE
R :RED
BK:BLACK
BR:BROWN
W :WHITE
MC COMPRESSOR
T TRANSFORMER
PF POWER FUSE
TH1 COLD THERMOSTAT
CDS CDS SENSOR
MAIN PCB MAIN PCB
PS1 MAIN POWER SWITCH
SOL1-4 SOLENOID VALVE
BT PCB BALLAST PCB
RELAY PCB RELAY PCB
WLS LEAKER SENSOR
LED STATE DISPLAY
SW1 COLD CHOICE SW
SW2 HOT CHOICE SW
SW3 WATER DISPENSE
UV UV LAMP
TOLERANCES UNLESS OTHERWISE SPECIFIED
STANDARD
David
LP-7279

MARK	REVISION RECORD	DATE	APPD
1			
2			

WATER DISPENSER ELECTRICAL WIRING DIAGRAM (Hot & Cold)



MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
H	HEATER	MAIN PCB	MAIN PCB	WLS	LEAKER SENSOR	UVS	UV Lamp SENSOR
MC	COMPRESSOR	PS1	MAIN POWER SWITCH	LED	STATE DISPLAY	UV	UV Lamp
T	TRANSFORMER	SOL1~4	SOLENOID VALVE	SW1	COLD CHOICE SW	TH2	HOT THERMOSTAT
PF	POWER FUSE	BT	BALLAST	SW2	HOT CHOICE SW	OV	OVERLOAD THERMOSTAT
TH1	COLD THERMOSTAT	RELAY PCB	RELAY PCB	SW3	WATER DISPENSE		

TOLERANCES UNLESS OTHERWISE SPECIFIED	PRODUCT NAME:	WATER DISPENSER	TITLE:	ELECTRICAL WIRING DIAGRAM
	MODEL:	H&C		
STANDARD	DRAWN BY: David	DESIGNED BY:	CHKED BY:	APPD:
	THIRD ANGLE PROJECTION	SCALE:	UNIT: mm	
	PART DRW NO.	LP-7278		
	DRAWING NO	2010.01.28(V0)		

PRE-DELIVERY PROCEDURES

DANGER! ***ELECTRICAL SHOCK HAZARD.***
Only qualified personnel who have read and understand this entire manual should attempt to install, or service this unit, failure to do so could result in death or serious injury. DO NOT plug into an electrical supply until specifically instructed.

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

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver. Temperature Gauge.
- Water Pitcher or Container to collect water from the faucet
- 3 Litre container or drain basin
- Aquadosa Sanitizer – Or equivalent (3% Hydrogen Peroxide)
- 1/4"O.D. Plastic Tubing, at least 1.5m in length, and assorted 1/4" quick connect fittings.
- Test Strips for measuring sanitizer levels
- TDS Meter (Optional)

1. Unpack the ***Waterlogic WL2FL Water Treatment Systems*** and check exterior for damage.

Sanitizing

Sanitize Aquadosa or other approved sanitizing cleaner throughout the cold and or ambient circuits. Follow all instructions on the sanitizer and flush with fresh water through the faucet until odour and taste is acceptable.

WARNING! ***USE PROPER PERSONAL PROTECTIVE EQUIPMENT***
Always ensure proper ventilation and use proper personal protective equipment such as gloves and eye protection when using chemicals. Refer to Material Safety Data Sheet for specific requirements of each chemical product. Take all necessary precautions to prevent sanitizer from contacting eyes, clothing, and any other surfaces in could damage (carpets).

2. We recommend using Aquadosa sanitizer, 25ml dose is enough to sanitize the machine. See manufactures instructions for any other sanitizing solution used. Measure and insert 25ml Aquadosa into the Sanitizing Cartridge. Always ensure sanitizer is compatible with stainless steel and acetyl plastic.

3. Connect sanitizing cartridge to inlet water supply and connect to inlet bulkhead fitting on back of unit. Turn on water supply.

4. Connect power to ***WL2FL Water Treatment System***. DO NOT TURN ON RED COMPRESSOR & HEATER SWITCH AT THIS TIME. *O=OFF*

Fill the Cold Circuit with Sanitizer

5. Depress the Main Dispensing Button on the Front Control Panel until cold water/sanitizing solution comes out the faucet. **NOTE:** Container and drain basin will be required to catch the water from the faucet.

   ⚠ **WARNING!** *Use Personal Protective Equipment. Gloves and Eye Protection Required. The first 5 to 10 Litres of water will contain concentrated sanitizer. Use extreme care!*

6. Turn off water supply and remove Sanitizing Cartridge from inlet water supply. Reconnect water supply to Inlet Bulkhead Fitting.

Flush Filters

⚠ **CAUTION!** ***FILTER FLUSH REQUIRED.***

Filters need to be configured and specified to do the job given the local water conditions, usage, maintenance schedule, and placement restrictions.

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

7. Flush filter thoroughly (at least 10 Litres) with fresh water to clear carbon fines. Test outlet water with TDS (Total Dissolved Solids) Meter to determine exact flushing volume required. See instructions on filter or manufacturers recommendations for more specific requirements.

8. Once flushed, install the filters. Following the flow direction on the filter.

   NOTE: to limit Microbial Growth, filters must be flushed upon installation and not prior.

9. Connect ***WL2FL Water Treatment System*** to power.

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

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

Flushing the Sanitizer from the Machine

10. Place a pitcher, catch basin, or other container under the faucet of the ***WL2FL Water Treatment System.*** Dispense at least 5 litres of ambient water and test with a test strip to ensure 0 parts per million of sanitizer is left in the ambient circuit.

11. Once ambient is clear, flush the cold tank. Run at least 10 Litres of water through the faucet by dispensing cold water to dilute and remove the sanitizer from the cold circuit. You can use test strips to evaluate the water and ensure 0 parts per million of sanitizer is left inthe circuit.

12. Once the sanitizer odour/taste has been flushed out of the cold and or ambient sideofthe machine the sanitization process for the cold and or ambient circuits are nowcomplete.

Fill the Hot Tank

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

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

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 ultravioletrays. Never look directly at an operating UV light. Disconnect wiring before removing.*

14. Remove UV Firewall Lamp from Firewall housing. Remove Top Cover from Firewall housing. Carefully remove Quartz Sleeve Spiral from Firewall Housing and inspect for cracks or other damage. Reinsert Quartz Sleeve Spiral, replace Top Cover of Housing. Inspect UV lamp and reinsert into Housing.

15. Press dispensing button and check for blue glow from top of Firewall Housing and at Faucet dispensing area to ensure UV lamp is operational.

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

16. Disconnect UV lamp to test UV lamp sensor operation. Unit should alarm and greenindication LED on front of unit should flash.

17. Disconnect power to ***WL2FL Water Treatment System.***

18. Reconnect UV lamp.

19. Connect power to ***WL2FL Water Treatment System.***

Compressor Test

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

21. Once the ***WL2FL Water Treatment System*** reaches its target temperature, the compressor will shut off. Draw a glass of cold water and verify it is has chilled to proper temperature.

Heater Test

22. Always ensure tanks are full of water before turning on the heater or the overheat (High Limit) will open and require manual reset. It will take the heater approximately 10 minutes to heat the water from ambient 24°C (75°F) to the factory set point of 87°C (187°F). Dispense a cup of hot water to ensure the temperature/odour/taste is acceptable.

⚠ **WARNING!** ***HOT WATER CAN BURN OR SCALD.*** *The* ***WL2FL Water Treatment System produces Hot Water up to 87°C (187°F).*** *Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

WL2FL MINI DRAINING INSTRUCTIONS

Draining Notes

Drain the ***WL2FL 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 Litres (½ gallon) of hot water from the machine. As hot water is dispensed from the faucet of the ***WL2FL 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 Litres (½ gallon) of water through the Hot Tank to cool the water temperature in the Hot Tank and avoid burns.

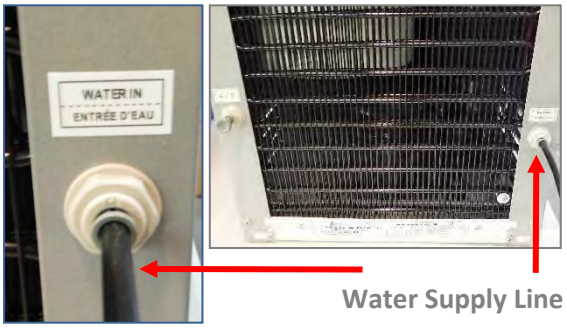
⚠ **WARNING!** ***HOT WATER.*** *The* ***WL2FL Water Treatment System produces Hot Water up to 87°C (187°F).*** *Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

Turn off Water Supply and Bleed Water Pressure

3. Isolate the ***WL2FL 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 ***WL2FL Water Treatment System.***



6. Depress Cold Water Dispense Button until all Cold Water has drained from the ***WL2FL Water Treatment System.***

7. Depress Hot Water Dispense Button until all Hot Water has drained from the ***WL2FL Water Treatment Machine***.

WL2FL FREE STANDING DRAINING INSTRUCTIONS

Draining Notes

Drain the ***WL2FL 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 Litres (½ Gallons) of hot water from the machine. As hot water is dispensed from the faucet of the ***WL2FL 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

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

⚠ **WARNING!** ***HOT WATER.*** *The* ***WL2FL Water Treatment System produces Hot Water up to 84°C (187°F).*** *Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

Turn off Water Supply and Bleed Water Pressure

10. Isolate the ***WL2FL Water Treatment System*** from incoming feed water by turning off the supply.
11. Dispense cold still water to relieve any pressure built up in the system.
12. Insert approx. 3 inches of blue tubing into the Line Bulkhead fitting at back of the ***WL2FL Water Treatment System*** to allow water to drain.
13. Depress Cold Water Dispense Button until all Cold Water has drained from the ***WL2FL Water Treatment System***.
14. Depress Hot Water Dispense Button until all Hot Water has drained from the ***WL2FL Water Treatment System***.

INSTALLATION PROCEDURES

Safety and Installation Guidelines

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

⚠ **WARNING!** ***ELECTRICAL SHOCK HAZARD.*** *Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.*

⚠ **WARNING!** ***IMPROPER SUPPLY OR CONNECTION CAN RESULT IS RISK OF SHOCK.*** *Connect to a 13 amp 220/240V 50Hz 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!** ***ONLY USE A Waterlogic SUPPLIED POWER CORD.*** *Locate system within 1 meter of power supply. Never use an extension cord or adapter. Do not use a damaged power cord or plug. Keep power cord out of heavy traffic areas and away from heat sources. Do not, under any circumstances, remove ground prong or alter the power cord. Never pull the power plug from the outlet with a wet hand or allow the plug to get wet. Failure to use the supplied power cord will void UL Certification and Warranty.*

⚠ **CAUTION!** ***INDOOR USE ONLY.*** *Never expose to direct sunlight, heat sources, or ambient air temperature above 37°C (100°F) or below 2°C (35°F). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmerenvironments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 50mm. Installs where the ambient temperature exceeds 27°C (80°F), require a minimum of 100mm 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 2.5 to 3Bar. 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.*

⚠ **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 contaminates*

Pre-delivery and sanitization procedures as prescribed in this manual must be performed before installing the ***WL2FL Water Treatment Systems***.

Always install indoors and place the ***Waterlogic WL2FL 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 unit. ***Waterlogic*** requires the use of a water pressure regulator. Water feed pressure must be between 2.7-4bar. Turn on the water supply and check for leaks.

2. Check to ensure that the Red Compressor & Heater switch is the *O=OFF* position.

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

3. Connect the power cord to the back of the ***Waterlogic WL2FL Water Treatment System*** and to a 220/240 Volt supply.

4. Fill the Cold Tank. Hold a container under the dispensing faucet, press and hold the main dispensing button until a continuous flow of water is obtained. Once a continuous flow is obtained, release the dispensing button. Cold Tank is now full.

5. Fill the Hot Tank. Hold a container under the dispensing faucet. Press the Hot Select Button followed by the main dispensing button until a continuous flow of water is obtained. Once a continuous flow is obtained, release the main dispensing button. Hot tank is now full.

   ⚠ **CAUTION!** ***NEVER TURN ON HEATER BEFORE FILLING HOT TANK.***
   Red Compressor/Heater Switch must be in the O=OFF position while the hot tank is empty. Damage could occur within one minute and the overheat (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 WL2FL Water Treatment System*** into its final operating position. Be sure that a minimum of 50mm clearance is maintained around both the sides and the back of the unit. This is important to allow proper airflow and heat exchange of refrigeration system.

8. Level unit using the adjustable feet to level if necessary. Never install on incline.

9. Turn the Red Compressor & Heater Power Switch to *I=ON* position.

10. When the unit has reached its Hot Temp Set Point, the heater will cycle off.
    When the unit has reached its Cold Temp Set Point Temperature, the compressor will cycle off.

11. Once the unit is at the target temperature(s), sample the water to ensure water meets expectations and additional rinsing or adjustment is not required.

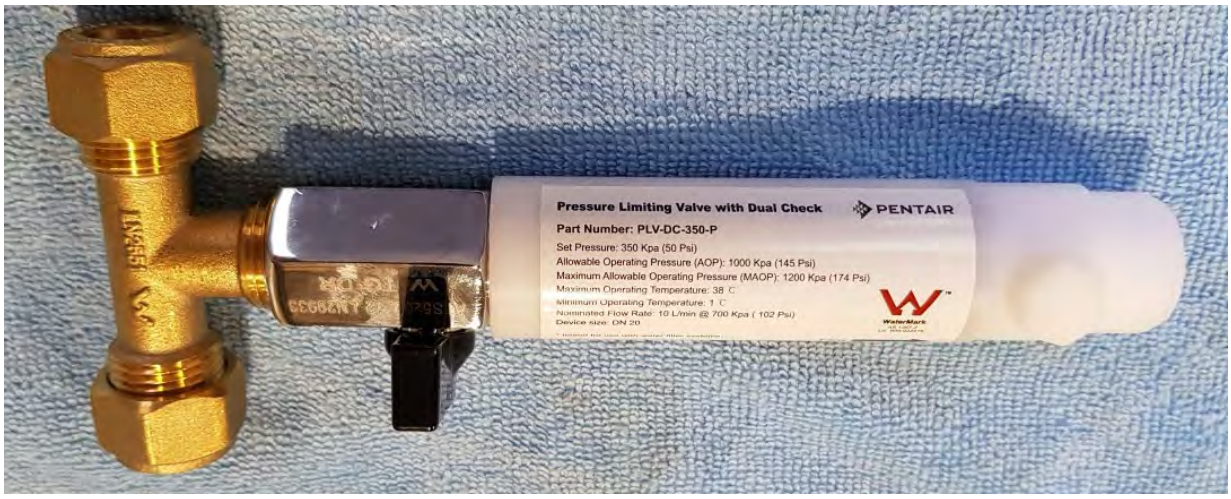
12. Check the ***WL2FL Water Treatment System*** for any leaks. External Leak Protection is always recommended.

AUSTRALIAN INSTALLATION GUIDE

Installation in accordance with AS/NZS 3500.1 and AS/NZS 3500.2. Waterlogic units must be installed according to the local guidelines. Waterlogic units should only be connected to a potable drinking water supply. Waterlogic units should not be connected to water supplies of unknown bacterial quality or those not already fit for human consumption. Waterlogic International strongly recommends the use of an anti-flood device.

Installation Instructions and parts required

1. K001 Install kit as below, (1 x 63058/103988 – brass tee, 1 x 54011/104115 ball valve, 1 x 52028/104177 dual check valve)



2. Serialised Unit
3. Diamond Flow Filter and Head

Options to above PLV
RMC PVDC50 dual check valve – 350 kpa PLV code 52010 / 100665

Accessories

1. JG ¼ sf x 3/8 stem elbow x 2 (for filter head) 60157 / 100963
2. JG ¼ sf x ¾ npt tap adaptor 60175 / 104065
3. Waterblock 50000 / 101084
4. JG ¼ sf x ¼ sf isolating valve 60127 / 100932
5. JG ¼ tube (black only) x 5 meters 60800 / 104105 roll
6. JG ¼ locking clips x 5 60124 / 104162

Any installation that requires us to run water ≥ 5M to our unit, must be using AUSPEX or a Watermark equivalent product for all tubing runs. For our compliance the product we use to run the water from the source to our unit must be Watermarked.

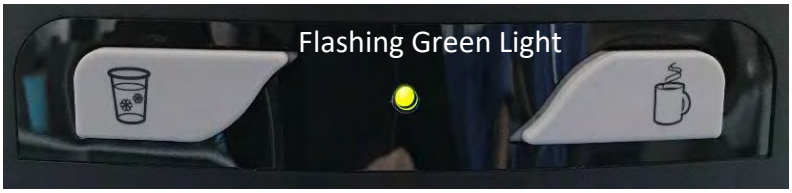
After hours sales/service – 1300 88 14 14

FAULT CODE TROUBLESHOOTING INDEX

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

Possible Reason	Solution
Water is present in the Bottom Tray, causing the leak detection to trigger. **Leak Detection is on the Mini Model only.*	Remove the Top Cover and Front Panel. Tip the unit slightly to drain, dry Bottom Tray completely.
Leak in ***WL2FL Water Treatment System*** Mini	Water is in the bottom of the ***WL2FL Water Treatment System***. Clear Leak Detection Tray to ensure inside of unit is dry. Check for source of leak and fix as necessary.

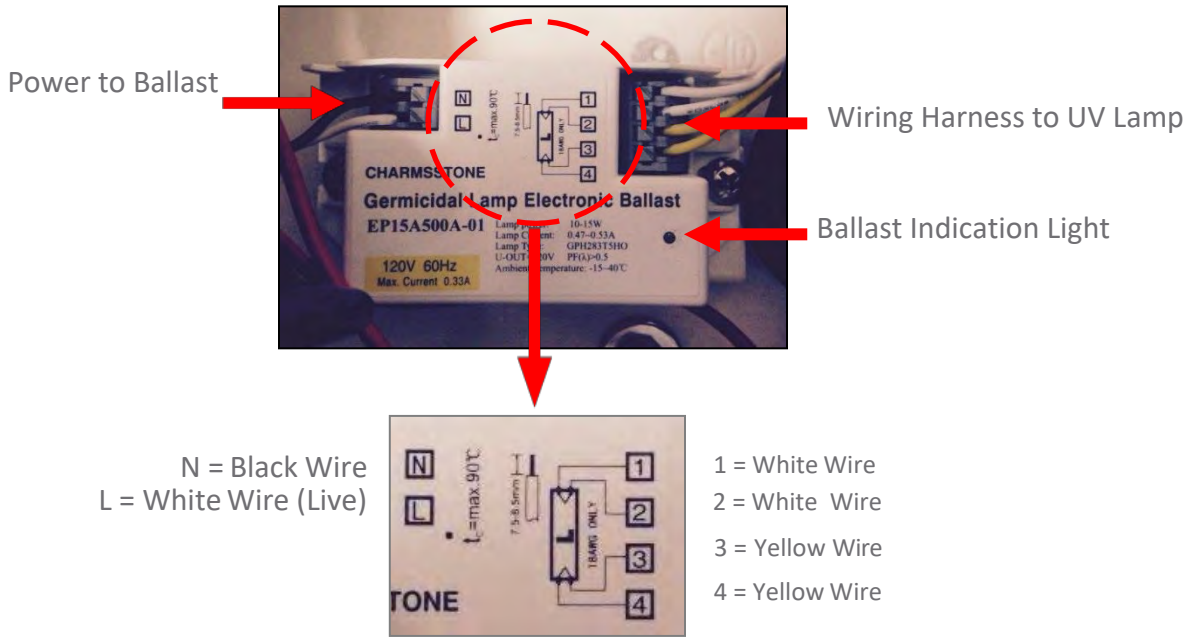
2. FAULT CODE: Green Flashing Light and 15 second Audible Alarms –Indicates the Firewall UV system is not detecting adequate dose of UV to ensure safe water.



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

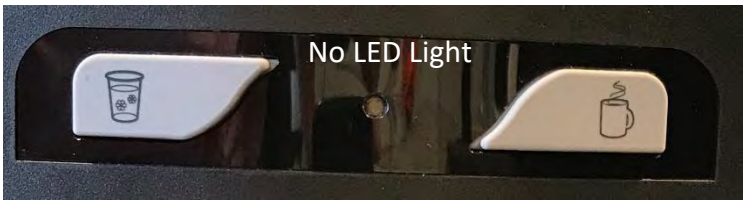
Possible Reason	Solution
Firewall UV System does not have adequate dose of UV.	Check UV System 1. If Ballast Indication Light is Green – the system should be operational. Ensure UV lamp is on. Replace Lamp. If lamp is replaced and problem persists, replace UV Sensor. 2. If Ballast Indication Light is Red, change UV Lamp. 3. If Ballast Indication Light is not lit – check power to Ballast. If power is going to Ballast – replace Ballast.

Remove Cover to locate Ballast



3. FAULT CODE: No LED Light

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



POWER TROUBLESHOOTING INDEX

1. 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 Socket - Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	Replace Socket - Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)
Defective Red Heater & Compressor Switch	Replace Red Heater & Compressor Switch

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

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

3. Compressor Runs But Does Not Chill

Possible Reason	Solution
Condenser is dirty	Clean the condensing coil of any obstructions or dust.
Reduction of airflow into unit.	Make sure unit is not under minimum ventilation requirements (2 to 4 inches).
Compressor is running very hot.	Low or lost refrigerant. Mini should be 20 grams Free standing should be 22 grams Refrigerant recharge as necessary.

4. Compressor is Not Running

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

DISPENSE TROUBLESHOOTING INDEX

- *Also includes related instruction for Hot Tank Descaling*

1. Irregular / Intermittent Dispensing from One Side

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3 bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
Loose or bad connection on the Front Dispensing PCGB or Solenoid Connector	Check that they are connected properly and tightened.
Solenoid	If both the Water Pressure and PCB have been ruled out, then it is the Solenoid. Replace Solenoid.
Dispensing button is broken on PCB	Check PCB for loose or damaged button. Replace PCB as necessary.

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

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

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3 bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
Bad Display PCB	Replace Main PCB Part Number: EN-6126-A
Debris in the Solenoid	Inspect Solenoid for debris and clean out as needed.
Dispensing Button Stuck	Dirt or Foreign material is filling the gap around the push-buttons. Inspect the push buttons and clean surrounding area. Inspect faucet assembly inside the unit and clean as necessary.

4. Steady Drip Out of Faucet

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

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

Possible Reason	Solution
Improper tubing attachment from the Hot Tank to Faucet or vice versa.	Check that the tubing is connected from Hot Tank Outlets to correct Faucet attachments. Connect tubing to outlets as needed.

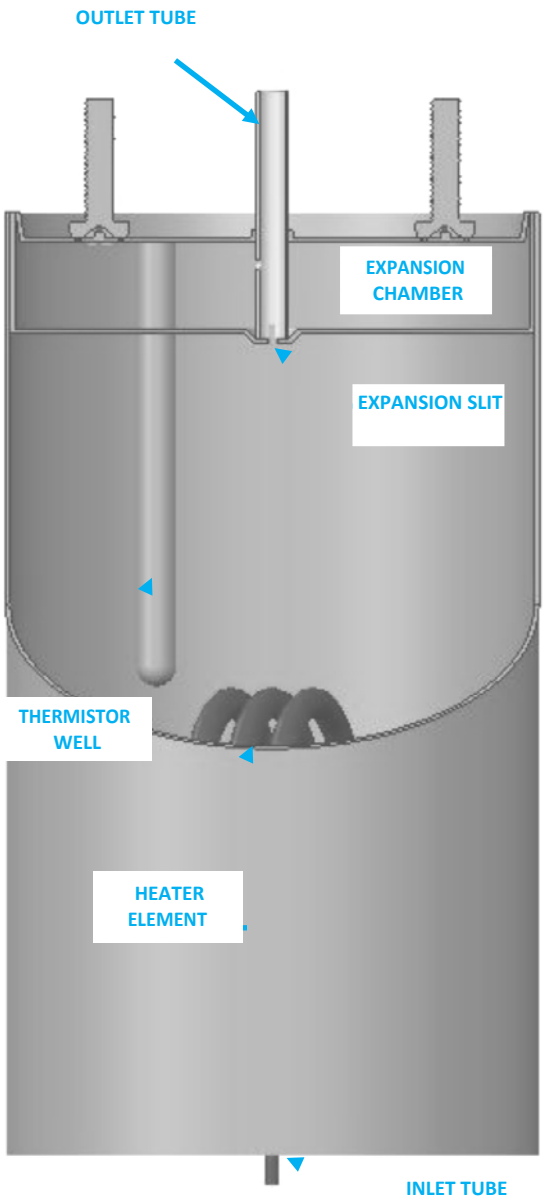
6. Hot Water Coming out of Faucet Vent Hole

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3 bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
Improper tubing attachment from the tank to faucet or vice versa.	Verify tubing is connected properly from tank outlets to correct faucet attachments.
Hot Tank outlet hole is scaled over.	Inspect and Descale Tank as needed. **See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.** See instructional video on the Partner Area of the Waterlogic.com website for more information.
Expansion chamber is not sealed properly.	Replace the Hot Tank.

7. Restricted Flow of Hot Water

Possible Reason	Solution
Partially closed water supply valve to the unit.	Open water supply valve.
Hot Tank outlet hole is scaled over.	Descale Tank. **See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.** See instructional video on the Partner Area of the Waterlogic.com website for more information. See instructional video on the Partner Area of the Waterlogic.com website for more information.
Tubing is creased or has a "kink" in it.	Inspect and replace tubing as necessary.
Faucet nipple screen mesh has obstruction(s)	Unscrew faucet nipple from faucet and remove any obstruction(s) from screen mesh.
Exhausted Filter	Replace the Filter
Solenoid connection to the Display PCB	Turn power off; unplug the ***WL2FL Water Treatment System*** and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.
Solenoid Valve is Malfunctioning	Inspect valve components for proper function. Replace as necessary.

8. Hot Water Drip out of Faucet

Possible Reason	Solution
Small Outlet Vent Hole susceptible to scale build up.	Descale Tank. **See Hot Tank Descaling Instructions that are included further below in this Troubleshooting Section.** See instructional video on the Partner Area of the Waterlogic.com website for more information.
HOT TANK  	All ***Waterlogic*** Hot Tanks have a built in Vent or Expansion Chamber in the top of the tank except for WL1000(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 Hot 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 Hot Tank Outlet Tube that allows air and water to pass into the Vent Chamber as it is heated. Water in the Vent Chamber is suctioned back through the Outlet Tube vent hole when water is dispensed. Expansion of water as it is heated in the Reservoir will push the water out the faucet when the outlet tube vent hole becomes plugged with debris or scale. The small Outlet Vent Hole is susceptible to scale build up and is a key indicator that descaling is required. 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.

9. Dispenses Hot and Cold Water at the same time

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
Hot or Cold solenoid is stuck open.	Remove Top Cover. Check Hot Solenoid: Dispense cold water and visually inspect tubing for water flow from both tanks. Check Cold Solenoid: Disconnect Elbow from outlet of Cold Solenoid. Select hot water and dispense (quickly releasing Dispensing Button to avoid much water coming out of ColdSolenoid. Replace Solenoid as necessary.

10. No Cold Water Available

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.

Closed Water Supply Valve	Open the Water Supply Valve
Cold Water Solenoid Valve malfunction	Inspect the valve components for proper functionality.
Red Heater & Compressor Switch on unit is off.	If water is dispensing at room temperature: Turn Red Heater & Compressor Switch on. *I =ON* 
Loose connection(s) on the Display PCB	Turn power off; unplug the ***WL2FL Water Treatment System*** and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.
Exhausted Filter	Replace filters as needed.
Water Pressure is too high	Ensure input water pressure is between 2.5-3bar; Install pressure reducer or regulator. *The correct input water pressure is critical to the performance of the unit to allow solenoids to open.*

11. Water does not dispense from Unit

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3 bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
Closed water supply valve	Open the water supply valve.
The unit is not properly plugged into electrical outlet	Check electrical outlet connection, or for blown circuit breaker.
Red Heater & Compressor Switch button on unit is in the off position	Turn Red Heater & Compressor Switch on. *I = ON* 
10 Amp Fuse Blown	Replace the 10 Amp Fuse as needed.
Water is present in the Bottom Tray, causing the Leak Detection to trigger	Remove the Top Cover and Front Panel. Tip the unit slightly to drain, dry Bottom Tray completely.
Hot and Cold Solenoid connections into the Display PCB are loose.	Turn power off; unplug the ***WL2FL Water Treatment System*** and visually inspect Solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.
Exhausted Filter	Replace filters as needed.

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

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3bar for the ***WL2FL Water Treatment System*** to operate properly.	Verify water pressure at the Inlet Bulkhead with a Pressure Regulator. Additional method of verification is to turn off water to unit and press the Dispense Button. Does the Solenoid open without water pressure to the unit? Listen for solenoid to activate, not the Dispense Button "click". Adjust water pressure to 2.5-3bar. *The correct input water pressure is critical to the performance of the unit to allow solenoids to open.*
PCB	Switch the hot and cold wires on PCB (red and blue connections). If water now dispenses from the opposite side, this is an indication that there is a PCB problem. Replace PCB
Solenoid	If both the Water Pressure and PCB have been ruled out, then it is the Solenoid. Replace Solenoid.
See "**Green Flashing Light" Fault Code Section of this Manual**	Indicates the Firewall UV system is not detecting adequate dose of UV to ensure safe water.

13. Cold Water Dispenses from Faucet and Vent Outlet Simultaneously

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

14. Small Amount of Water Periodically Dispenses from Faucet Automatically

Possible Reason	Solution
Too much water pressure. Recommend 2.5 to 3 bar for the ***WL2FL Water Treatment System*** to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open. Check water pressure at the inlet bulkhead with a water pressure gauge. Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click". Adjust water pressure to 2.5-3bar.
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 or cold. Isolate the water supply; push the DISPENSE button to release the line pressure, and remove the coil affixed to the solenoid stem. Remove the stem from the solenoid housing and allow water from the tank to flush out the contaminant(s).

15. Dispense Buttons Stick

Possible Reason	Solution
Dirt or Foreign material is filling the gap around the Dispense Buttons.	Inspect the Dispense Buttons and clean surrounding area. Inspect Faucet Assembly inside the ***WL2FL Water Treatment System*** and clean as necessary.

16. Water Streams at an Angle

	Solution
	Rotate the Bung (Blue Silicone) and the JG fittings a few degrees.
Water Feed Pressure	Verify the Incoming Feed with a Pressure Regulator. Should be 2.5-3bar, Use Pressure Regulator *The correct input water pressure is critical to the performance of the unit to allow solenoids to open.*
Outgoing Flow Rate	Verify the outgoing Flow Rate. Should be 1.89 Litres per minute (0.5 gallons per minute) - Firewall Purification. Dispense water for one minute – should measure 1.89 Litres (0.5 gallons) per minute Change Flow Restrictor if needed.

17. Run On – Water continues to dispense out of faucet after releasing thedispense button

Reason

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

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

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

Typical "Run On" is 2-3 seconds.

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

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

Waterlogic Lab Testing of Run On				
Pressure	Pressure	Time	Flow Rate	Run On
Static Bar	Dynamic Bar	4 Litres	l/min	Seconds
4.6	2.7	61	2.9508197	3
3.4	2	72	2.5	2.5
2.2	1.3	92	1.956217	2
Pressure measured at inlet line to unit. Static with unit closed. Dynamic with unit dispensing cold water.				
No filters were installed in unit.				

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 or Citric Acid Descale 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
- 20 Litre container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 1m in length, and assorted ¼" quick connect fittings
- Empty Cartridge

9. Put descaler as per directions into the descaling cartridge.

10. Connect descaling cartridge to the inlet water supply and connect to inlet bulkhead fitting on the back of the ***WL2FL Water Treatment System***. Turn on Water Supply.

11. Select Hot Water and depress the Main Dispensing Button on the Front Control Panel until descaling solution (slightly cloudy coloured water) comes out of the faucet. Container and drain basin will be required to catch water from the faucet.

12. Turn off water supply and remove descaling cartridge from inlet water supply. Reconnect water supply to inlet fitting.

13. Allow descaling solution to remain in the Hot Tank for a minimum of 15 minutes (length of time may vary depending on water conditions).

14. Place a pitcher, catch basin or other container under the faucet of the ***WL2FL Water Treatment System.***

15. Flush the Hot Tank until water runs clear.

16. Once clear Water dispenses from the faucet the Hot Tank has been descaled. Always ensure the ***WL2FL Water Treatment System*** is performing to the customer's satisfaction.

⚠ **WARNING!** ***HOT WATER.*** *The* ***WL2FL Water Treatment System produces Hot Water up to 87°C (187°F).*** *Water above 52°C (125°F) can cause severe burns or scalding. Hot water should be dispensed carefully into insulated container to avoid injury.*

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

⚠ **WARNING!** ***REINSTALL ALL PANELS AND COVERS.*** *Always reinstall all Panels, Protective covers, and fasteners after servicing equipment. Failure to do so could result in severe personal injury and will void the certifications and warranty of the equipment****.***

COLD WATER TROUBLESHOOTING INDEX

1. Cold Water is not Cold 5°± -3°C (41°± 5°F)

Possible Reason	Solution
No power or refrigeration elements	Check that the Red Heater & Compressor switch is on. Turn Red Heater & Compressor Switch on. *I = ON* 
Tank has run out of cold water. *Cold tank capacity is 4 Litres (1 Gallon) for Free standing and 2 Litres (½ Gallon) for Mini.*	Wait for Cold Tank to chill water to temperature prior to dispensing more cold water. Greater capacity ***Waterlogic Water Treatment Systems*** are available.
Cold Water Thermostat	Check continuity of Thermostat with multimeter. Replace Thermostat as required.
Refrigerant has run out	Run Compressor for at least ten minutes. If Condenser is not warm, then refill the refrigerant.
Compressor problem	If Compressor is not running, repair or replacement is needed.

Note: The Waterlogic Firewall reduces 6-log of waterborne bacteria, 5-log of viruses, and 4-log of parasites potentially found in the drinking water. A small amount (about 50ml) of water remains in the Firewall device after dispensing. This water does not remain permanently chilled, and will eventually become room temperature after several hours. To ensure the next glass of water dispensed is adequately chilled, Waterlogic recommends dispensing 100ml or more cup of water after long periods of inactivity. The first 50ml will be near room temperature, and the remaining 100+ml will be very cold. The mixture of these two temperatures will provide for an adequately refreshing, cold drink.

HOT WATER TROUBLESHOOTING INDEX

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

Also includes related instructions for:

- *Disabling Energy Star Sleep Mode*
- *Resetting the Hot Tank Overheat or High Safety Limit*
- *Programming "Changing Hot Water Mode to Ambient Water Mode"*

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

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

The ***WL2FL Water Treatment System*** is programmable to make Cold / Ambient water – refer to Disabling Sleep Mode instructions included further below in this Troubleshooting Section.

The ***WL2FL Water Treatment System*** does NOT have Extra Hot capability and the maximum hot temperature is 87°C (189°F).

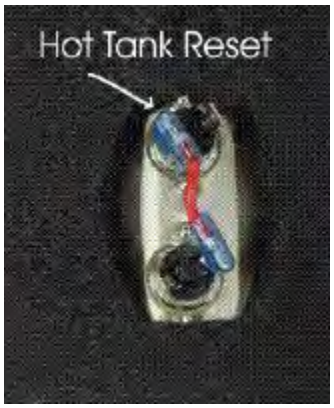
It typically takes 10 minutes for the 500W to heat the 1.5 litre (0.4 Gallon) of room temperature (ambient) water to the 85°C (185°F) set point.

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

Thermostat or overheat “open” on Hot Tank	Turn Power off. Check OHM’s resistance across terminals on each Thermostat and Overheat separately. Good components will indicate a closed circuit (continuity) or zero OHM’s on the meter. Replace components as necessary.
Loose or improperly connected wire(s) to the Heating Element / Hot Tank.	Visually inspect wire leads gong to the hot tank; confirm proper connections to the heating elements. Hot tank life is 3-5 years, depending on usage.
Heating Coil Not Heating	Turn Power off; Drain hot tank; Use multi-meter to check Heater Element for continuity up to 96.8Ω – 115.2Ω resistance. Hot Tank must be empty if you are checking for continuity. Replace Hot Tank as necessary.
Improper Jumper Settings	The unit has been changed to a cold/ambient setting (JP9 has been moved from Pin 1 and Pin 2). Verify that Jumper Pins are located properly for Hot Water Option.

RESETTING THE HOT TANK OVERHEAT OR HIGH LIMIT SAFETY

1.	Red Compressor/Heater Switch must be in the *O=OFF* position 
2.	Unplug the Power Cord from rear of ***WL2FL Water Treatment System.***
3.	Free standing Model: Remove the Lower Front Panel by removing the Phillips Head Screws underneath the Lower Front Panel. Mini Model: Remove the Side Panel by removing Phillips Head Screws from Side Panel.
4.	Locate the Protective Metal Box on the rear of the Hot Tank. Looking through the condenser coils on the rear of the unit, you will see the Hot Tank located on the right-hand side.
5.	From the front of the Water Treatment System, reach up behind the hot tank and take hold of the protective metal box covering the thermostat and overheat on the hot tank. There are nuts that secure the Protective Metal Box to the Hot Tank, are loose enough to allow you to remove the Protective Metal Box. If the nuts on the metal box are too tight, loosen the nuts securing the Hot Tank to the upper base of the ***WL2FL Water Treatment System*** unit and lower the Hot Tank so you can remove the Protective Metal Box. 

6.	*For demonstrative purposes, photos below have lowered the hot tank from the unit.* Press the reset button  
7.	Reattach the Protective Metal Box by depressing the top flap of the Protective Metal Box so it snaps back into its original position on the Hot Tank. 
8.	Replace the Lower Front Panel.
9.	Plug in the Power Cord.
10.	Turn on the Red Compressor/Heater Switch *I=ON* position **The Hot and Cold tanks must be filled with water BEFORE turning on the Red Heater and Compressor Switch.** 
11.	Verify the cooler is fully operational before installing it at the customers' site.

CONTACTLESS – PEDALS

Safety

Waterlogic technical manuals cover voltages of both 120v and 220v for all markets where Waterlogic operates. Please ensure that you carefully read the information in this manual and for any parts specific to any market, refer to your technical agreement or specific part listing. The below is not a step by step working practice and only trained members of staff are to follow these instructions.

Caution! Please ensure the retrofit of Waterlogic foot pedal systems are only carried out by trained and experienced

technicians. The Waterlogic foot pedal system retrofit is NOT to be carried out by ANYONE who is not experienced or trained on Waterlogic systems.

Warning! Take extreme caution when working with electricity, safe isolation processes MUST be followed before carrying out any retrofit work.

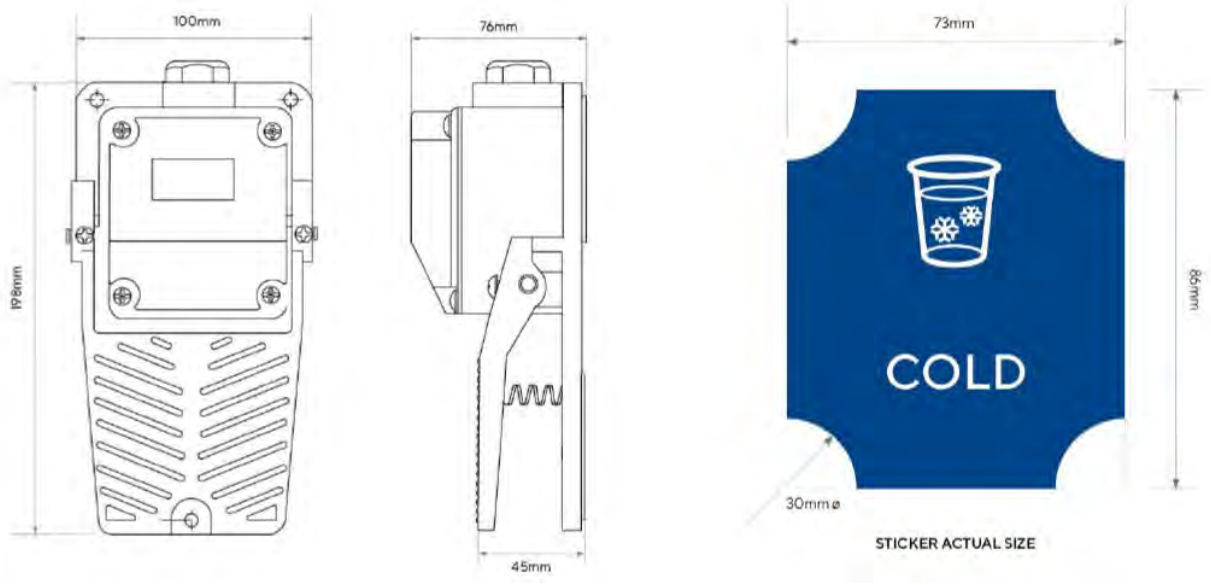
Do not operate if damaged! If the machine or supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

What is the Waterlogic Foot Pedal System?

Waterlogic has produced a hands-free solution to help our end customers achieve the highest hygiene standard in the workplace. Our foot pedals fit most of our dispensers (including Table Tops) providing access to the same great quality water.

Each pedal operates a water type from cold, sparkling, ambient to hot. Please note that there is not an “extra hot” pedal. These pedals can be stickered with the water type for easy user selection (labels provided). For the WL7 one pedal toggles between water types and the other dispenses.

Waterlogic Foot Pedal Specification



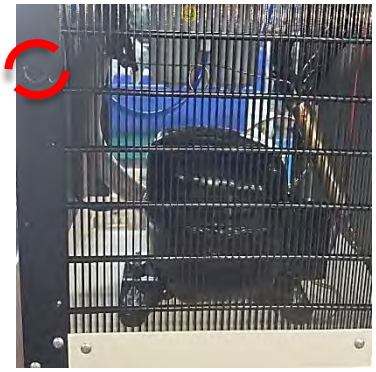
Installation

It is advised to turn off the water supply to the machine and disconnect the water supply during these steps to make it easier to manoeuvre the machine. If you have enough working space around you, this step is not necessary.

Safely isolate the WL2FX from the main power supply. To do this, remove the power plug from the mains socket and unplug the other side of the power harness from the back of the machine. Place the power lead in a safe position away from any water or trip hazard locations – It is recommended to place in your tool bag.

For Mini Models only: Using appropriate personal protective equipment, drill 17mm hole into the back of the machine as per below location. Take extreme caution while doing this task.

For Free Standing models only: Carefully knock through the knockout hole for the pedal wire harness to go through. It may be necessary to enlarge the knockout hole using a 17mm drill bit for the grommet to fit appropriately.



Fit the rubber grommet into the hole that has either been drilled for mini models or knocked out for free standing models. The grommet is used to protect the harness as it goes through the machine.

If required, remove existing UI PCB and replace with the new pedal kit PCB (Ensure the correct PCB kit number us used for your market). Place the appropriate labels on the pedals to ensure the correct pedal matches with the correct water option. Place the pedals either side of the machine and carefully feed the foot pedal harnesses through the grommet. Connect the pedal harness to the correct water option at the PCB. It is recommended that the pedals are located in such a way that they do not pose any trip hazard or safety risk and the location of the pedals is cornered off by hazard tape.

CONTACTLESS – INFRA-RED

Safety

Waterlogic technical manuals cover voltages of both 120v and 220v for all markets where Waterlogic operates. Please ensure that you carefully read the information in this manual and for any parts specific to any market, refer to your technical agreement or specific part listing. The below is not a step by step working practice and only trained members of staff are to follow these instructions.

Caution! Please ensure the retrofit of Waterlogic foot pedal systems are only carried out by trained and experienced

technicians. The Waterlogic foot pedal system retrofit is NOT to be carried out by ANYONE who is not experienced or trained on Waterlogic systems.

Warning! Take extreme caution when working with electricity, safe isolation processes MUST be followed before carrying out any retrofit work.

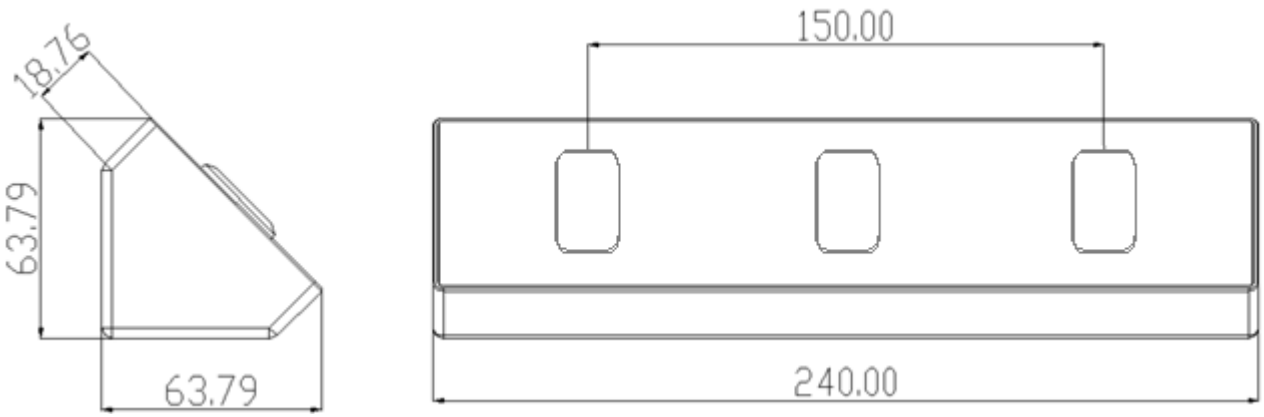
Do not operate if damaged! If the machine or supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

What is the Waterlogic IR System?

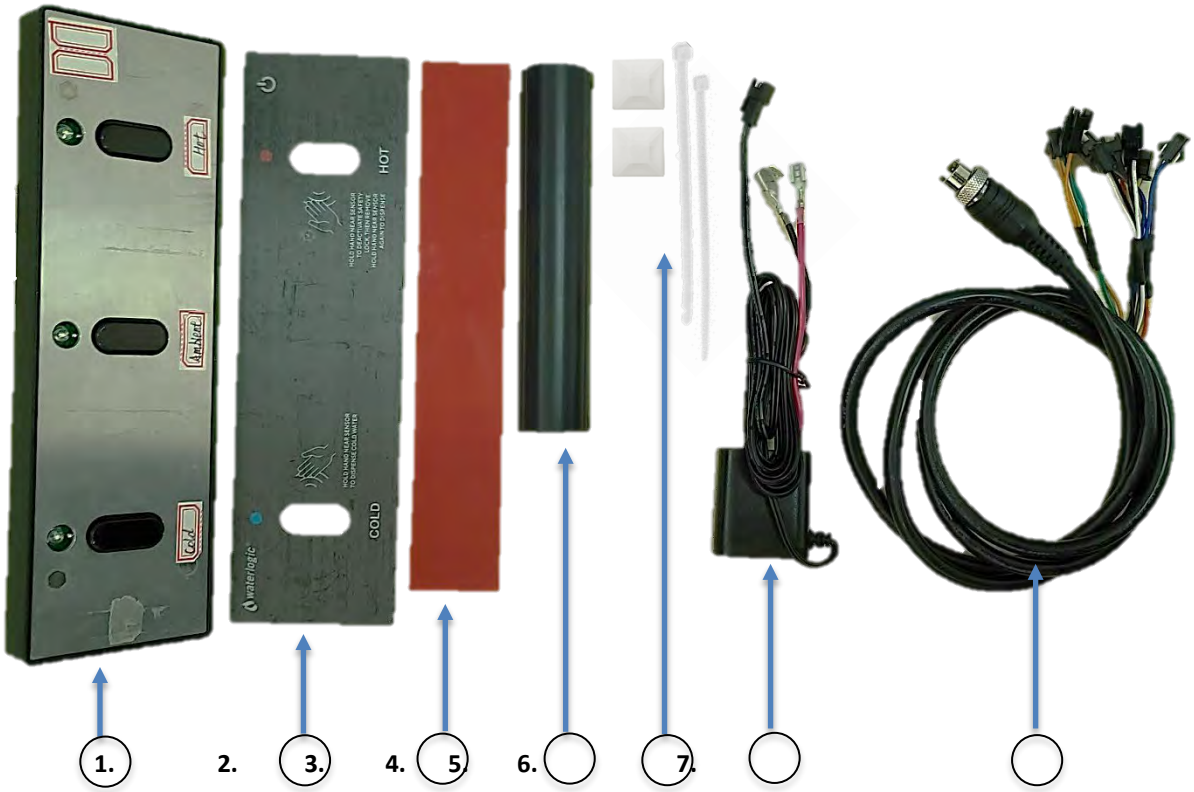
Waterlogic has produced a hands-free solution to help our end customers achieve the highest hygiene standard in the workplace. Our IR module fit most of our dispensers (including Table Tops) providing access to the same great quality water.

The IR module operates all water types from cold, sparkling, ambient to hot. PCBs will need to be replaced in order for the IR module to work with our machines.

Waterlogic IR Module Specification



What is included in the IR Module Kit?



Item Number	QTY	Description
1.	1	IR Module
2.	1	UI Label
3.	1	Double sided tape for attachment
4.	1	IR Module wire trunking 150mm
5.	2	Cable tie with mount
6.	1	Power adaptor
7.	1	Signal/power cable for IR module

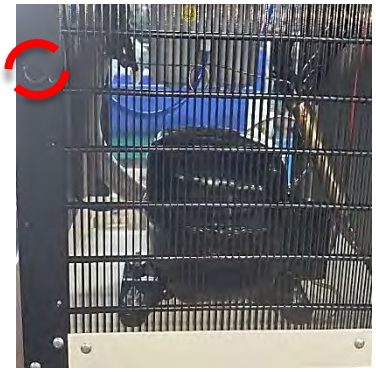
Installation

It is advised to turn off the water supply to the machine and disconnect the water supply during these steps to make it easier to manoeuvre the machine. If you have enough working space around you, this step is not necessary.

Safely isolate the WL2FX from the main power supply. To do this, remove the power plug from the mains socket and unplug the other side of the power harness from the back of the machine. Place the power lead in a safe position away from any water or trip hazard locations – It is recommended to place in your tool bag.

For Mini Models only: Using appropriate personal protective equipment, drill 17mm hole into the back of the machine as per below location. Take extreme caution while doing this task.

For Free Standing models only: Carefully knock through the knockout hole for the pedal wire harness to go through. It may be necessary to enlarge the knockout hole using a 17mm drill bit for the grommet to fit appropriately.



Fit the rubber grommet into the hole that has either been drilled for mini models or knocked out for free standing models. The grommet is used to protect the harness as it goes through the machine.

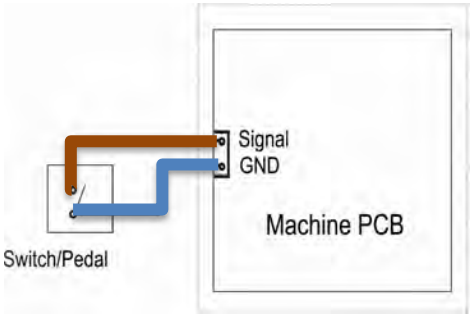
For newer freestanding and mini models, the cut out and grommet has already been pre installed for you and there is no need to follow the above steps.

Install the UI PCB and IR Module

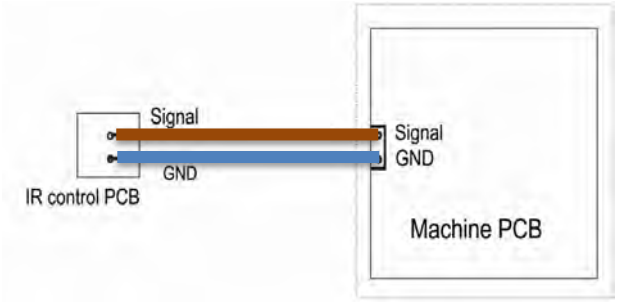
If required, remove existing UI PCB and replace with the contactless PCB kit. Please ensure the correct UI PCB is fitted to the correct water options version of the machine you are carrying out the contactless retrofit to.

IR Module PCB connection

Pedal PCB Connections



IR Module PCB Connections



Ensure the correct IR module water options is
used in the correct machine, for example, Hot and Cold IR module is used with a Hot and Cold model. When connecting the IR module to the PCB, ensure Hot is connected to Hot and Cold is connected to Cold.

It is also important to make sure the signal and ground wires are connected the correct way. Due to the pedal system not requiring correct polarity, ensure signal and ground are connected correctly for the IR module.

Helpful tip: If the IR module does not operate, the signal and ground may be the wrong way around, by switching the signal and ground around the other way may solve the issue.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