

WL270 MANUAL



Waterlogic Commercial Products, LLC 3175 Bass Pro Drive Grapevine, Texas 76051

(800) 288-1891 <u>www.waterlogicdealers.com</u> Tech Portal Website: <u>techportal.waterlogic.com</u>



WL270 MANUAL

Congratulations on your choice of the *Waterlogic WL270 Water Treatment System*. The *WL270 Water Treatment System* model dispenses cold, ambient and hot water. Every *WL270 Water Treatment System* includes:



Bio-Cote® Anti-Microbial Protection



Advanced In-Tank Ultraviolet (UV) Purification



Filter configuration can be optimized for all water conditions

The *Waterlogic WL270 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 **WL270 Water Treatment 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 Treatment Systems should be combined with selected water treatment components to create a system specifically tailored for each application by trained and qualified personnel.

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

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



TABLE OF CONTENTS

USER GUIDE Safety Alert Symbols 4 Safety Precautions 4 Model Designations and General Specifications 8 Electrical and Shipping Specifications......9 **SERVICE GUIDE** Resetting the Hot Tank Overload (High Limit Safety)............ 18 Adjusting Cold Water Set Point29 **INSTALLATION GUIDE** TROUBLESHOOTING GUIDE Power Troubleshooting40 Dispense Troubleshooting 42 Hot Water Troubleshooting......51 Taste / Odor Troubleshooting55





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.

<u>MARNING!</u>

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

CAUTION!

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

SAFETY PRECAUTIONS

Basic safety precautions should be followed, including the following:

Ensure all local, state, and federal laws and codes including health and safety guidelines are met when installing Waterlogic Equipment. Only qualified service technicians should attempt installation and service of *Waterlogic* Equipment. Always read the entire operating instructions before using the appliance and save these instructions for future use.

- ♠ DANGER! ELECTRICAL SHOCK HAZARD. Always use a dedicated and properly grounded outlet. Unit should be protected by ground-fault circuit interrupter (GFCI) or residual current device (RCD) having a rated residual operating current not exceeding 30mA. Use only Waterlogic supplied power cord. Never use extension cords or power strips to connect unit. Do not use if the power supply cord is damaged. Always unplug from power supply prior to servicing.
- **<u>MARNING!</u>** AUTHORIZED USE ONLY. This appliance is to be used for its intended purpose as described in this manual and untrained individuals who use this manual assume the risk of any resulting property damage or personal injury. This appliance can't be used by children and persons with reduced physical, sensory or mental capabilities or lack of experience.
- **WARNING!** DO NOT OPERATE IF DAMAGED. Unplug if abnormal case occurs. 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.



- <u>WARNING!</u> CONNECT TO POTABLE WATER SUPPLY. This system is to be used for water only and is not intended for use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.
- <u>WARNING!</u> TIP HAZARD. Dispenser could tip or fall causing serious injury. Always install unit on a firm, flat, and level surface and secure the WL270 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.
- <u>WARNING!</u> 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.
- <u>WARNING!</u> STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.

 The unit must be completely drained and sealed before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Sanitize before use to eliminate any potential microbiological contaminates
- CAUTION! INDOOR USE ONLY. Intended for household use only. Never expose to direct sunlight, heat sources, or ambient air temperature above 37°C (100°F) or below 2°C (35°F). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 2-inches. Installs where the ambient temperature exceeds 27°C (80°F), require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.
- <u>CAUTION!</u> USE A WATER PRESSURE REGULATOR. Waterlogic will not be responsible for injury or damage caused by excessive water pressure. Input or feed pressure must be 40 psi to 60 psi. Be aware of any potential pressure surges caused by building/municipal pumping stations.
- ▲ CAUTION! USE UV STABILIZED SUPPLY LINES. Feed the unit with a potable ambient or coldwater supply only. Feed water over 37°C (100°F) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible. Locate the unit as close to the water supply and the electrical connections as possible. Immediately isolate or close water supply valve and contact service representative if leak is noticed.

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



WL270 FEATURES AND BENEFITS

Cold, Ambient, and Hot Water

The *WL270 Water Treatment System* unit comes standard with Ambient, Cold and Hot Selections to meet a wide range of customer demands. Cold Water temperature is adjustable.

High Volume Storage and Water Capacity

The *WL270 Water Treatment System* unit has 4 liters of Cold Water Capacity, 1.6 Liters (.42 Gallons) of Hot Water Capacity and 11.4 Liters (3 Gallons) of Reservoir Capacity.

BioCote®Anti-Microbial Protection

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



Large Dispense Area with Recessed Faucet

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

Leak Detection

The **WL270 Water Treatment System** unit is supplied with a Sensor in the Leak Tray that halts water supply to prevent overflow.

Child Safeguard

The *WL270 Water Treatment System* unit requires two separate buttons to be held down in the correct sequence to prevent accidental dispensing of hot water.



In-Tank UV Purification

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

WL270 Manual Page 6 – Revision 3-16-22



WL270 CERTIFICATIONS

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

WL270 Certifications Include



UL399 – Certified Drinking Water Cooler

Intertek Labs (ETL) Certified the *WL270 Water Treatment System* to ANSI/UL 399 Standard for Drinking Water Coolers.



CSA C22.2 No. 120 CSA Standard for Refrigeration.



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



NSF/ANSI-61 – Certified Drinking Water System Components NSF / ANSI 372 – Drinking Water System Components – Lead Content CSA B483.1 - Drinking Water Treatment Systems

This System has been tested and certified in accordance with NSF/ANSI-61 – Certified Drinking Water System Components, NSF / ANSI 372 – Drinking Water System Components for low Lead Content, and CSA B483.1 - Drinking Water Treatment Systems by the Water Quality Association (WQA)



Energy Star Certified

The **WL270 Water Treatment System**, has been tested and certified to the Energy Star, a US Environmental Protection Agency (EPA) program that helps our customers save money and protect our climate through superior energy efficiency.

Safe Drinking Water Act

Waterlogic water treatment systems conform to the Safe Drinking Water Act (SWDA) "lead-free" amendment effective January 4, 2014, and *Waterlogic* has tested for BPA and declares that all of its products are Bisphenol-A FREE and contain no harmful BPA plastics.

Waterlogic is certified to ISO 9001:2015 – Quality Management Systems (certified by Intertek). ISO 9001 is the internationally accepted standard for well managed organizations that have adopted the key quality management principles to its operations to bring consistent quality products and a culture of continuous improvement.



WL270 Manual Page 7 – Revision 3-16-22



MODEL/PART DESIGNATIONS

BRAND NAME	DESCRIPTION	MODEL NUMBER
	Waterlogic WL270 – Cold, Ambient and Hot	
WL270 Black and Silver	Color: Black and Silver	F-1001-FS-HCA-UT-CS-INN
	Serial Number Prefix: 34 or FB1H321CS	
	Waterlogic WL270 – Cold, Ambient and Hot	
WL270 Blue and Silver	Color: Blue and Silver	F-1001-FS-HCA-UT-BS-INN
	Serial Number Prefix: 28 or FB1H321BS	

SPECIFICATIONS

<u>ITEM</u>	<u>WL270</u>
Water Connection	¼" Quick Connect
Cold Water Temperature	Cold Water Temperature – Factory Set Point 5°C (41°F) Adjustable - 1.1° - 12.2°C (34° - 54° F)
Cold Tank Size	4 Liters (1.05 Gallons)
Reservoir Capacity	11.4 Liters (3 Gallons)
Hot Water Temperature	83°C (181°F) Factory Set Point
Hot Tank Size	1.6 Liters (.42 Gallons)
Hot Water Manual Reset Overload	95°C (203°F)
Recommended Service Pressure	40-60 psi (275-414 kPa) – Use Pressure Regulator
Maximum Service Pressure	100 psi (689 kPa) – Use Pressure Regulator
Rated Service Flow Out	1.89 Liters per Minute (0.5 gallons per minute)
Environmental Temperature	2° - 37°C (35° - 100°F)
UV Lamp	8 Watts
Heater	600 Watts
Refrigerant Gas	R134a, 58 grams, 2.05 ounces
R134a Pressures	High (230 psi), Low (90 psi)



WL270 DIMENSIONS AND WEIGHT

<u>ITEM</u>	<u>WL270</u>
Width/Denth/Height	15.4" x 14.4" x 45.7" 391 x 366 x 1161 mm
Weight (dry)	60 pounds (26 kg)



ELECTRICAL SPECIFICATIONS

ELECTRICAL SUPPLY	120V/60Hz, 1PH	15 Amp Service
COMPONENT	POWER (approximate)	AMP DRAW (approximate)
Heater	600	5 Amps
Compressor	216	1.8 Amps
UV Lamp System	8	0.06 Amps
WL270 TOTAL	824	6.86 Amps

WL270 Manual Page 9 – Revision 3-16-22



OPERATING INSTRUCTIONS



The above picture shows the Front Water Dispense Buttons for the *Waterlogic WL270 Water Treatment System*.

For Hot Water: 1. Press and hold down the Red-Hot Safety Button (LEFT hand side)

2. Press the Red Hot Dispense Button (RIGHT hand side)

*Both buttons must be held at the same time to dispense Hot Water. This is a safeguard when dispensing hot water to prevent accidental dispensing of hot water.

For Cold Water: Press Blue Cold Water Select Button

For Ambient Water: Press Green Ambient Water Select Button



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

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

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

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

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

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

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

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

Website: waterlogic.us



SERVICE REQUIREMENTS

MARNING! Read and understand the contents of this manual before attempting to service WL270 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 Assembly and the UV Lamp Wiring Harness must be replaced every 12 months.





NOTE: The Glow Starter shown may appear blackened which is normal.



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

CAUTION! UV LAMPS ARE HAZARDOUS. Lamps are considered Hazardous Waste and must be disposed of accordingly. Refer to Product MSDS sheet for details.



- 3. Clean the Quartz Sleeve that surrounds the UV lamp with a non-abrasive cloth, descaling solution, or ultrasonic bath if needed when changing UV Lamps.
 - <u>CAUTION!</u> UV SYSTEM IS FRAGILE. Never handle the UV lamp or Quartz Sleeve with bare hands. UV Lamp and quartz sleeve must be free of oils and contaminants to ensure proper operation. Use a soft non-abrasive cloth to clean.
- 4. Inspect the Quartz Sleeve O-ring for wear or damage and replace as necessary.
- 5. Ensure there is adequate (minimum of 2") clearance around the unit and clean the condenser grill and compressor fan to provide efficient cooling system operation.
- 6. Sanitize the Cold Tank per instructions in the pre-installation procedures.
- 7. Clean and sanitize external surfaces of the unit. Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.
- 8. Remove and clean the Faucet. Replace as needed.

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



LG COMPRESSOR UPGRADE

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

New LG Compressor with External Start/Run Capacitor



New LG CSB035 LJCM Compressor

Repair/Replacement Parts for are not interchangeable with older/other compressors.

Older version of LG compressor is obsolete and no longer available.

External Capacitor

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

Part # CO-0017-L00-00 LG Compressor 120V CSB035LJCM-PTC Relay

Part # CO-0018-L00-00 LG Compressor 120V CSB035LJCM-Overload Protector

Part # CO-0019-L00-00 LG Compressor 120V CSB035LJCM-Capacitor

^{*}Parts List in this manual updated to reflect these changes.



REPLACEMENT COMPONENTS (CONSUMABLES)

Component	WLCP Part No.	Frequency of Replacement
8W UV Lamp Assembly with Starter Wire Harness	10-2350	Every 12 months PN CT-2001-I00-00
Hot Tank Assembly 1.6 Liter 110V / 600W	19-1071	Every 3-5 Years depending on usage PN HT-0004-L00-00
Hot Tank Replacement Tube Kit	19-2065	Each Hot Tank Change PN AK-0067-NWS
Carbon Air Filter	19-1052	Every 12 months PN PU-4108
GAC Filter - 10" Carbon Activated Inline Filter – <i>Optional</i> *Filter Element PN FT-0038-WLT	FT-0035	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0035-IL-WLT
Carbon Block - 10" CBC 1 Micron Lead and Cyst Reduction Inline Filter – Optional *Filter Element PN FT-0064-WLT	FT-0063	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0063-IL-WLT
Sediment Filter - 10" Sediment 20 Micron Inline Filter – <i>Optional</i> *Filter Element PN FT-0055-WLT	FT-0053	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0053-IL-WLT

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

Hot Tank Service

Hot Tanks (with controls) must be replaced at least every 3-5 years depending on usage. Descaling Hot Tank may be required on a regular basis depending upon filtration and local water conditions. See Hot Tank Descaling Instructions Section of this manual.

Surface Cleaning

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

DISPOSAL

End of Life

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



HOT TANK DESCALING INSTRUCTIONS

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

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

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

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



CAUTION! STAINLESS STEEL TANK DESCALING.

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

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5-gallon container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- Sanitizing Cartridge
- Food Coloring
- 1. Check to ensure that the Red Heater and Compressor Power Switch is the O=OFF position.



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

- 2. Turn off the water supply and unplug the unit.
- 3. Remove top Cover
- 4. Remove Reservoir Lid
- 5. Remove Hot Tank Drain cap on back of unit and allow all water to drain from unit.



- 6. When unit has finished draining, replace Hot Tank drain cap.
- 7. Remove reservoir from unit.
- 8. Mix descaler per instructions.
- 9. Add descaling mixture to the Hot Tank through the Hot Tank fill portal located in the water inlet port.

Hot Tank fill portal to add descaling mixture to.



- 10. Replace Reservoir.
- 11. Turn on water supply and plug in unit.
- 12. Allow reservoir to fill.
- 13. Turn on the Red Heater and Compressor Power Switch. *I=ON* position.



- 14. Allow descaling mixture to remain in Hot Tank for 15 minutes (exposure time may be affected by local water conditions).
- 15. Flush unit until all descaler is removed.
 - <u>WARNING!</u> HOT WATER HAZARD. Unit Produces Very Hot Water and Steam. Always use insulated and chemically compatible containers and let unit cool down before draining the Hot Tank to avoid injury.
 - <u>CAUTION!</u> MUST REPLACE HOT TANK 3-5 YEARS DEPENDING ON USAGE. The Hot Tank and its controls must be replaced a minimum of every 3-5 years depending on usage to ensure efficient and dependable operation.

<u>WARNING!</u> REINSTALL ALL PANELS AND COVERS. Always reinstall all panels, protective covers, and fasteners after servicing equipment. Failure to do so could result in severe personal injury and will void the certifications and warranty of the equipment.



RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1. Turn off Red Heater and Compressor Power Switch *O = OFF* on rear of unit.



2. Unplug the Power Cord from rear of unit.

Remove 4 Phillip Screws from the Access Panel on rear of unit and Lower Access Panel.



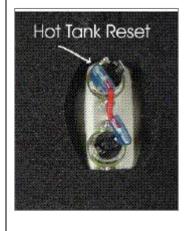
Locate protective metal box on rear of Hot Tank. Push down on top of metal box to access thermostat and overload

4.



Press the reset button



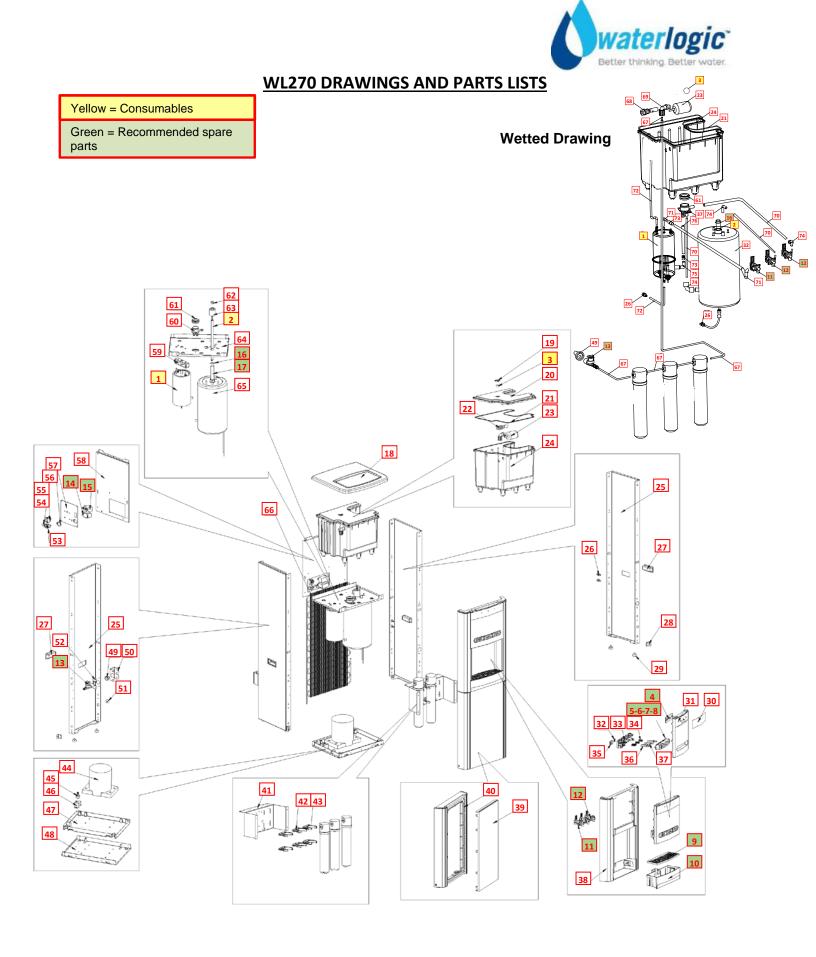




6. Reattach the metal box by depressing the top flap of the metal box so it snaps back into its original position on the Hot Tank.



7.	Replace the Access Panel and 4 Philips screws.
8.	Plug in the Power Cord.
9.	Make sure the hot and cold tanks are filled with water BEFORE turning on the Red Heater and Compressor Power Switch
	CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK. Red Heater and Compressor Power Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty Hot Tank.
10.	Verify the cooler is fully operational before installing it at the customers' site.





	WLCP Part			Bet	ter thinking. Better water.		
No	No.	Description	Part No	Stocked?			
Consun	Consumables						
1	19-1071	Hot Tank Assembly 1.6 Liter 110V 600 W	HT-0004-L00-00	Yes			
1.1	19-2065	Hot Tank Replacement Tube Kit Replace when replacing the Hot Tank	AK-0067-NWS	Yes			
2	10-2350	8W UV Lamp Assembly with Starter Wire Harness	CT-2001-I00-00	Yes	are today		
3	19-1052	Carbon Air Filter	PU-4108-L00-00	Yes			
Not Shown	01-2076	Scale Kleen	NA	Yes			
Recom	mended Spa	re Parts					
1.2	19-1078	Hot Tank Thermostat - 81°C (178°F) Recommend stocking 2 each for every 10 units purchased	EL-0158-L00-00	Yes	Ó		
1.3	19-1079	Hot Tank Overload 97°C (206.6°F) Recommend stocking 2 each for every 10 units purchased	EL-0159-L00-00	Yes			
1.4	12-6900	Cover for Hot Tank Overload and Thermostat Recommend stocking 1 each for every 10 units purchased	ST-8289	Yes			
4	19-1002	Display PCB Recommend stocking 1 each for every 10 units purchased	EN-6112	Yes			
5	19-1041	Middle Push Button – COLD *purchase sticker separately Recommend stocking 1 each for every 10 units purchased	PL-1264-L00-BK	Yes			
5.1	LP-0426- L00-00	Blue Cold Dispensing Sticker Recommend stocking 2 each for every 10 units purchased	LP-0426-L00-00	Yes	The same of the sa		
6	19-1042	Right Push Button - AMBIENT *purchase sticker separately Recommend stocking 1 each for every 10 units purchased	PL-1263-L00-BL	Yes			
6.1	LP-0424- L00-00	Green Ambient Dispensing Sticker Recommend stocking 2 each for every 10 units purchased	LP-0424-L00-00	Yes			



					ter thinking. Better water.
7	19-1040	Left Push Button HOT *purchase sticker separately Recommend stocking 1 each for every 10 units purchased	PL-1262-L00-BK	Yes	
7.1	LP-0423- L00-00	Red Hot Dispensing Sticker Recommend stocking 2 each for every 10 units purchased	LP-0423-L00-00	Yes	
8	19-1043	Left SAFETY Push Button — Blank *purchase sticker separately Recommend stocking 1 each for every 10 units purchased	PL-1265-L00-00	Yes	
8.1	LP-0425- L00-00	Red Hot SAFETY Dispensing Sticker Recommend stocking 2 each for every 10 units purchased	LP-0425-L00-00	Yes	
9	19-2025	Drip Tray Grill Black Recommend stocking 2 each for every 10 units purchased	PL-1270	Yes	
9	19-1048	Blue Drip Tray Grill Recommend stocking 2 each for every 10 units purchased	PL-1270-A	Yes	
10	19-2020	Drip Tray Black Recommend stocking 2 each for every 10 units purchased	PL-1289-B	Yes	O-marrier -
10	19-1032	Blue Drip Body Recommend stocking 2 each for every 10 units purchased	PL-1289-F	Yes	
11	19-1050	Hot Water Faucet Assembly Recommend stocking 1 each for every 10 units purchased	PL-1260-D	Yes	
12	19-1051	Ambient and Cold-Water Faucet Assembly Recommend stocking 1 each for every 10 units purchased	PL-1260-E	Yes	
13	19-1001	Inlet Solenoid Valve 120V Recommend stocking 1 each for every 10 units purchased	PU-4096	Yes	EN PA
14	10-3010	UV Lamp Ballast 120V 60Hz 8W (E57946B) Recommend stocking 1 each for every 10 units purchased	EL-5006-A CN	Yes	
15	19-1069	Cold Tank Thermostat Low Temp - 3°C (37.4°F) Recommend stocking 1 each for every 10 units purchased	CT-2070-A	Yes	
15.1	LP-0326	Cold Thermostat Cover Label Recommend stocking 1 each for every 10 units purchased	LP-0326-L00-00	Yes	All Marie Manager Marie



				Beti	er thinking. Better water.
16	10-2500	Quartz Sleeve O-ring Recommend stocking 1 each for every 10 units purchased	CT-2006	Yes	0
17	10-1400	Quartz Sleeve for 8W Lamp Recommend stocking 1 each for every 10 units purchased	CT-2002	Yes	
Remair	ning Parts				
10	19-5005	Black Top Cover	PL-1254	Yes	
18	19-1033	Blue Top Cover	PL-1254-A	Yes	
19	19-1076	Air Filter Silicone Cap	PL-1290	Yes	D -
20	19-1038	Reservoir Cover	PL-1259	Yes	
21	19-1056	Reservoir Cover Silicon Seal	PU-4099	Yes	8
22	19-1004	Water Level Controller with Wire	PU-4100	Yes	
23	19-1072	Floater Assembly	PU-4097	Yes	July 1
24	19-1037	Gravity Fed Plastic Reservoir Transparent 3-Gallon	PL-1258	Yes	
25	19-1019	Side Panel	ST-8212	Yes	
26	14-5011	Drain valve	CT-2031	Yes	
27	12-8058	Plastic Silver Handle	PL-1123	Yes	
28	19-1021	Side Panel Bracket	ST-8229	Yes	



					er dilliking better water.
29	10-3083	Unit Rubber Feet	ST-8016	Yes	
30	19-1014	Front Panel Display Sticker	LP-7180	Yes	
	19-5010	Front Top Hatch Panel - Black	PL-1257	Yes	
31	19-1036	Front Top Hatch Panel – Blue	PL-1257-A	Yes	
32	19-1029	Spring for Hot Safety Lock	CST-8327	Yes	
33	19-1047	Faucet Bracket	PL-1269	Yes	1994 - 199
34	19-1028	Spring for Push Pin	CST-8326	No	
35	19-1045	Hot Safety Push Button Safety Lock	PL-1267	Yes	
36	19-1044	Gravity Hot Safety Push Button pin	PL-1266	Yes	
37	19-1046	Gravity Faucet Push Pin	PL-1268	Yes	0
38	19-1034	Top Front Panel for Drip Tray	PL-1255	Yes	
39	19-5015	Front Lower Insert Panel	PL-1149A	Yes	
40	19-1035	Bottom Panel - Silver	PL-1256	Yes	
41	19-1016	Filter Bracket	ST-8206CN	Yes	F. E



42	10-3099	3" Filter Clip	PU-4024	Yes	
43	10-3098	2" Filter Clip	PU-4025	Yes	0

		in machine before ordering parts as and related parts are not intercha		P/N CO-0	020-L00-00 and
CO-0	020-L00-0	00 Compressor			
44A.1	CO-0020- L00-00	LG Compressor 120V R134A CSB035LJCM	CO-0020-L00-	Yes	
44A.2	CO-0019- L00-00	Compressor Capacitor	CO-0019-L00- 00	Yes	ailtra.
44A.3	ST-0216- L00-00	Capacitor Bracket	ST-0216-L00-00	Yes	,
44A.4	CO-0017- L00-00	PTC Relay	CO-0017-L00- 00	Yes	
44A.5	CO-0018- L00-00	Overload Protector	CO-0018-L00- 00	Yes	
CO-9	001-A / 1	0-2200 Compressor			
44B.1	10-2200	Compressor (R134a 1/8HP) 120V/60Hz	CO-9001-A	Yes	
44B.2	10-3003	Compressor Starter Relay	CO-9016	Yes	
44B.3	10-5018	Compressor Overload	CO-9015	Yes	
44.1	12-1001	Filter Dryer	CO-9008	Yes	-
45	19-1005	Leak Detection Floats Connection	PU-4100-C	Yes	
46	19-1025	Level Sensor Bracket for Leak Detector	ST-8232	Yes	
47	19-1049	Leak Tray	PL-1292	Yes	T f



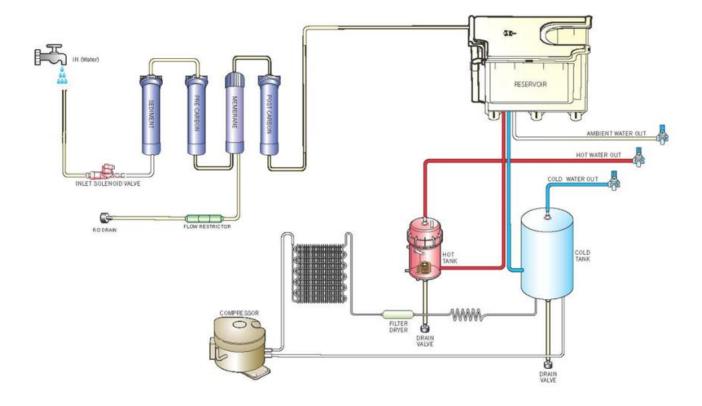
					er diriking better water.
48	12-1602	Bottom Shelf	ST-8035	Yes	
49	19-1008	JG Adaptor 1/4" (CI320816S) for Inlet Solenoid Valve	PU-4104	Yes	
50	19-1026	Cover of Inlet Solenoid Valve	ST-8233	Yes	
51	NA	Rubber O-ring for GF Side Panel Drain Hole	PL-1293	No	
52	19-1020	Inlet Solenoid Valve Bracket	ST-8214	Yes	
53	19-1090	Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	EL-5029	Yes	(A.)
54	10-3014	Fuse Holder & Fuse	EL-5053	Yes	10
55	10-3008	Red Compressor and Heater Switch	EL-5004	Yes	0 1
56	19-1015	Power Socket	ST-8052	Yes	
57	19-1022	GF Back panel access panel for electronics service	ST-8230A	No	
58	NA	Back Panel	ST-8210	No	
59	12-8006	Hot Tank Bracket	ST-8120	Yes	
60	19-1039	Water Inlet Port to tank	PL-1261	Yes	0
61	19-1057	Silicon seal - Inlet Port to Tanks	PU-4109	Yes	0



					4 Hillian (4 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1
62	10-8085	UV Lamp Fixing Rubber (Silicon)	CT-2001-B	Yes	
63	12-1210	UV Lamp Retaining Threaded Nut	PL-1128	Yes	
64	19-1018	Upper Shelf	ST-8211	Yes	-62
65	NA	Cold Tank with Thermistor	CT-0013-L00-00	No	
66	19-1000	Wire Condenser	CO-9040	No	
67	NA	JG LLD PE Tube - Blue O.D.1/4"	PU-4031	Purchase from John Guest	
68	19-1073	Floater fitting & Nut for Gravity	PU-4098	Yes	5-
69	19-1009	JACO fitting OD 1/4"	PU-4116	Yes	
70	19-1099	1/2" Pipe White Tubing John Guest PN PE-16-GI-0250F-W	PU-4126-KR	Yes	
71	19-1060	Silicon Elbow Tube for Hot Outlet Included in AK-0067-NWS	PL-0207-L00-00	Yes	
72	10-7040	Silicone Pipe 5/16"	PL-4064-L00-00	Yes	
73	19-1003	PP Straight Connector for Silicon Pipe	PU-4101	Yes	
74	NA	1/2" Elbow fitting (PP0316W)	PU-4141-KR	Purchase from John Guest	50
75	PL-0206-KR	Silicon Elbow for Hot Tank Inlet / Outlet Included in AK-0067-NWS	PL-0206-KR	Yes	\
76	PL-4126-KR	Silicone Pipe 1/2"	PL-4126-KR	Yes	
Not Shown	10-3007	Power Cord 120V – 1825 mm	EL-5001-B	Yes	



WL270 WATER FLOW DIAGRAM





ADJUSTING COLD SET POINT

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

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



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

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



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

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

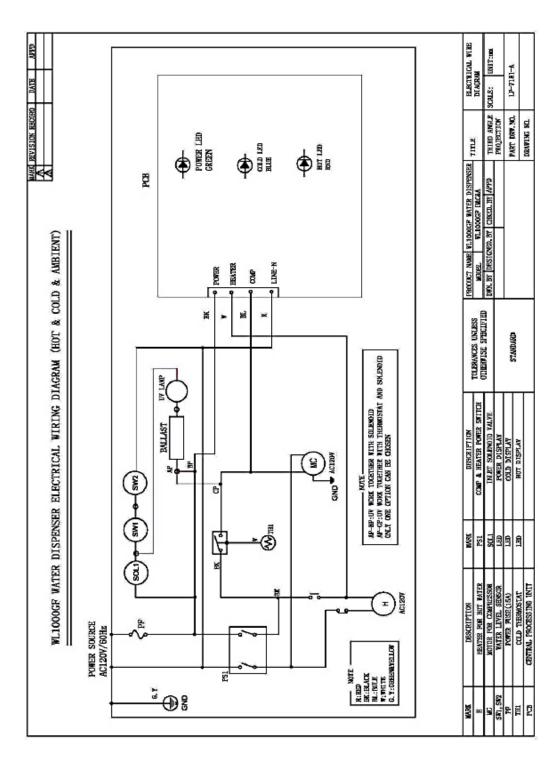


Turning the adjustment screw counter-clockwise to raise the set point temperature.



WL270 ELECTRICAL DIAGRAM

<u>NOTAGE PROPERTY AND ADDITION OF THE PROPERTY </u>





PRE-INSTALLATION PROCEDURES

DANGER! ELECTRICAL SHOCK HAZARD.

Only qualified personnel who have read and understand this entire manual should attempt to install, or service this unit, failure to do so could result in death or serious injury.



WARNING! ALWAYS SANITIZE BEFORE USE.

Sanitize before use to eliminate any potential microbiological contaminates.

Red Compressor/Heater Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the two Hot Tank Overload Devices (High Safety Limit) require manual reset if heater is turned on with an empty Hot Tank.





CAUTION! DRIP TRAY DRAIN.

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

Washing of the Internal Plastic Reservoir, Lid and Float

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Sanitizer Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- Unused sponges or paper towels
- Dish Soap
- Clean water
- 1. Unpack the *Waterlogic WL270 Water Treatment System* and check exterior for damage.



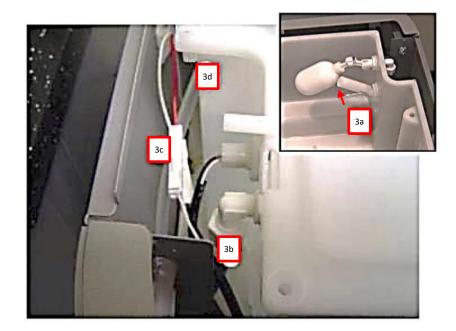
The internal wetted surfaces of the machine have been handled multiple times in the process of manufacturing. By following the steps below, you will ensure the cleanliness and sterility of the drinking water. Refer to the flow diagram in this manual prior to washing of the plastic reservoir, lid and floats.

2. Remove the Top Cover and Lower Panel of the WL270 Water Treatment **System**. The two screws securing the top cover are located in each rear corner. The two screws securing the lower front panel are located on the front, lower sides near the floor.





- 3. Completely remove the Plastic Internal Reservoir from the *WL270 Water Treatment System*.
 - 3a. Remove and discard the clear silicon float protector from the electronic float.
 - 3b. Loosen the water supply line fitting from the Mechanical Float.
 - 3c. Unplug the white disconnect attached externally to the electronic float.
 - 3d. Pull the silicon ¼" vent line loose from the Hot Tank where it attaches to the Plastic Reservoir.



- 4. Scrub the internal surfaces with soapy water using an unused sponge or paper towels.
- 5. Rinse well with clean water.
- 6. While avoiding touching the wetted surfaces of the reservoir with your hands, reinstall the Reservoir into the *WL270 Water Treatment System*, reversing the removal steps you performed prior.

Sanitizing the machine

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Sanitizer Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner
- Unused sponges or paper towels
- 7. Install the Hose Adaptor fitting that is packed in the accessories bag found in the drip tray onto the water inlet fitting on the back of the machine.





- 8. Install the metal stand-off plate from the accessories bag and install over the water inlet. Connect a section of the ¼" plastic tubing from the water supply line into the hose adaptor fitting at the back of the unit.
 - **CAUTION!** DO NOT TURN ON THE WATER YET
 - **CAUTION!** FILTER FLUSHES REQUIRED.

WL270 Water Treatment Systems are not supplied with filters. Filters should be configured to optimize your system. Filters need to be configured and specified to do the job given the local water conditions, usage, maintenance schedule, and placement restrictions.

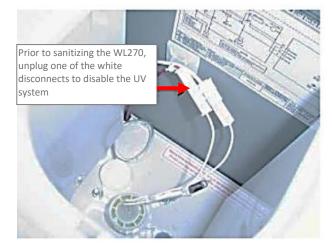
In order for our filters to perform as represented and to provide the best quality water possible, it is essential that filters be replaced periodically. The frequency of filter changes depends upon your water quality and your water usage. For example, if there is a lot of sediment and/or particles in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

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

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

If you intend to use the Waterlogic RO System, you must remove the filter plate supplied behind the lower front panel (four screws total). The RO System then mounts on the rails just above the compressor. Route the RO drain line through the port that is protected by the rubber grommet on the back of the machine.

- 11. Remove the lid to the internal reservoir of the *WL270 Water Treatment System*.
- 12. Pour 2 tablespoons of Sanitizer Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner in the reservoir.
- 13. Replace the reservoir lid.
- 14. Unplug one of the white disconnects supplying power to the UV lamp. *This step will prevent interaction between the sanitizer and the UV.*





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



- 15. Turn on the water and plug the *WL270 Water Treatment System* to a power source. Verify the power LED is illuminated on the front of the unit. The unit should start to fill.
- 16. Once the reservoir has filled halfway with water, drop two more tablespoons of Sanitizer Household Bleach (5.25% Sodium Hypochlorite) or Citric Acid Based Cleaner in the reservoir.
- 17. Once the reservoir has filled, depress and hold the cold dispense button. This action fills the cold tank. There will be a pause of up to one minute before the water starts to dispense from the **WL270 Water Treatment System** Faucet.
 - <u>WARNING!</u> Use Personal Protective Equipment. Gloves and Eye Protection Required. The first 2 or 3 gallons of water will contain concentrated sanitizer. Use extreme care!
- 18. Once the cold tank is filled (when the water starts streaming into the glass under the faucet, release the cold dispense button. Depress and verify chlorinated dispenses from the Ambient faucet.
- 19. Depress and verify chlorinated water flows from the hot faucet.
- 20. After water flows from all 3 faucets, turn on the Red Compressor / Heater Switch.

Red Compressor/Heater Switch must be in the I=ON position.



The compressor and Hot Tank heater systems will begin to operate. The heater LED (not the word heater, but the LESD above the word "heater"), and the blue chilling LED on the front indication panel of the machine will be illuminated.

- 21. Allow the sanitizing solution to remain in the machine until the red heater LED turns off about 10 minutes.
- 22. Place a pitcher under the Cold Faucet of the *WL270 Water Treatment System* and dispense 1 gallon of water. Do the same with the Ambient and Hot Faucets.
- 23. Turn off the Red Compressor / Heater Switch. Unplug the unit. Switch off the cold and hot drain caps on the back of the unit. Drain the **WL270 Water Treatment System**, replace drain caps.

 Red Compressor/Heater Switch must be in the O=OFF position.

WL270 Manual Page 34 – Revision 3-16-22



- 24. Reconnect the UV wiring connectors.
- 25. With the Red Compressor / Heater Switch off, plug the *WL270 Water Treatment System* back into the power source. Ensure the power LED is illuminated on the front of the *WL270 Water Treatment System*. The unit should start to fill.

DANGER! ELECTRICAL SHOCK HAZARD.

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

26. Verify the UV Lamp has a faint blue glow underneath the silicon fittings on top of the UV lamp to ensure it is working. The UV Lamp is directly connected to the electronic float, meaning the lamp will only be turned on when the unit is filling.

CAUTION! NEVER LOOK DIRECTLY AT A WORKING UV LAMP, EYE DAMAGE WILL OCCUR.

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.

- 27. Replace the top cover.
- 28. Once the reservoir has re-filled, verify that all of the sanitizer has been rinsed from the hot, cold and ambient faucets. Continue dispensing water from the faucets until the water tests chlorine free. Draining, refilling and dispensing more water from the unit may be necessary to ensure the water is chlorine free.
- 29. Turn on the Red Compressor / Heater Switch. This will start the chilling and heating processes.

Red Compressor/Heater Switch must be in the I=ON position.

- 30. Verify the compressor starts by feeling the head of the compressor for vibration. The temperature in the cold tank should reach its target temperature within 45 minutes. When the unit has reached target cold temperature, the compressor will cycle off. The Hot Tank will take considerably less time to reach its target temperature of 83° (181°F).
- 31. After the cold and hot water temperatures have been reached, turn the Red Heater/Compressor Switch off.

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





DRAINING INSTRUCTIONS

Drain the **WL270** Water **Treatment System** for transportation.



MARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.

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

Prior to draining the Hot Tank, turn off the Red Heater and Compressor Power Switch O = OFF, and dispense 2 liters of hot water from the machine. As hot water is dispensed from the faucet of the unit, colder water will be introduced into the Hot Tank. Since the Red 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 to disable the heater and compressor.
- 2. Dispense 2 liters of water through the Hot Tank to cool the water temperature in the Hot Tank and avoid burns.





WARNING! HOT WATER CAN BURN OR SCALD.

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

Turn off Water Supply and Bleed Water Pressure

- 3. Isolate the unit from feed water by turning off the supply.
- 4. Dispense cold still water to relieve any pressure built up in the system.
- 5. Remove the water supply line from the hose adaptor.

Drain the Cold Water Tank and Circuit

- 6. Remove Hose Adaptor.
- 7. Remove Drain Caps located on back of unit.
- 8. After unit drains, replace drain caps.



INSTALLATION PROCEDURES

Safety and Installation Guidelines

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

- <u>WARNING!</u> ELECTRICAL SHOCK HAZARD. Always unplug (isolate from power supply) to prevent electrical shock except where electrical tests are specified.
- <u>WARNING!</u> IMPROPER SUPPLY OR CONNECTION CAN RESULT IS RISK OF SHOCK.

 Connect to a 15 amp 120V 60Hz properly grounded outlet (GFI is recommended). Ensure polarity is correct and always use a 3-prong outlet. Consult a qualified electrician if you have any questions.
- <u>WARNING!</u> USE ONLY Waterlogic SUPPLIED POWER CORD. Locate system within 5 feet of power supply. Never use an extension cord or adapter. Do not use a damaged power cord or plug. Keep power cord out of heavy traffic areas and away from heat sources. Do not, under any circumstances, remove ground prong or alter the power cord. Never pull the power plug from the outlet with a wet hand or allow the plug to get wet. Failure to use the supplied power cord will void UL Certification and Warranty.
- CAUTION! INDOOR USE ONLY. Never expose to direct sunlight, heat sources, or ambient air temperature above 100°F (37°C) or below 35°F (2°C). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 2-inches. Installs where the ambient temperature exceeds 80°F, require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.
- <u>CAUTION!</u> USE A WATER PRESSURE REGULATOR. Waterlogic will not be responsible for injury or damage caused by excessive water pressure. Operating pressure must be 40 psi to 60 psi. Be aware any of potential pressure surges caused by building/municipal pumping stations.
- <u>CAUTION!</u> USE UV STABILIZED SUPPLY LINES. Feed the unit with a potable ambient or cold water supply only. Feed water over 100°F (37°C) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible.
- <u>WARNING!</u> STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.

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

Pre-installation and sanitization procedures as prescribed in this manual must be performed before installing the *WL270 Water Treatment System*.



Always install indoors and place the Waterlogic WL270 Water Treatment System on a firm, flat and stable surface.

- 1. Attach the water supply line to the 1/4" feed water hose adaptor fitting on the back of the unit. Waterlogic requires the use of a water pressure regulator. Water feed pressure must be between 40-60 psi. Turn on the water supply and check for leaks.
- 2. Check to ensure that the Red Heater and Compressor Power Switch is the O=OFF position.





- 3. Connect the power cord to the back of the Waterlogic WL270 Water Treatment System and to a 120 Volt supply.
- 4. Turn on water supply and allow reservoir to fill.
- 5. Fill the Cold Tank. Hold a container under the dispensing faucet, press and hold the cold dispensing button until a continuous flow of water is obtained. Once a continuous flow is obtained, release the dispensing button. Cold tank is now full.
- 6. Fill the Hot Tank. Hold a container under the dispensing faucet. Press and hold down the Red Hot Safety Button (LEFT hand side) dispensing button followed by the Pressing and Holding down the Hot Dispensing Button at the same time until a continuous flow of water is obtained. Once a continuous flow is obtained, release the main dispensing button. Hot Tank is now full.

CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK.

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







- 7. Verify that the UV lamp operates as expected.
 - <u>WARNING!</u> ULTRAVIOLET RADIATION. Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Always disconnect before removal.
- 8. Move the *Waterlogic WL270 Water Treatment System* into its final operating position. Be sure that a minimum of 2" clearance is maintained around both the sides and the back of the unit. This is important to allow proper airflow and heat exchange of refrigeration system.
- 9. Level unit using the adjustable feet to level if necessary. Never install on incline.
- 10. Turn the Red Heater and Compressor Power Switch to *I=ON* position.



- 11. When the unit has reached its Hot Temp Set Point, the heater will cycle off. When the unit has reached its Cold Temp Set Point Temperature, the compressor will cycle off.
- 12. Once the unit is at the target temperature(s), sample the water to ensure water meets expectations and additional rinsing or adjustment is not required.
- 13. Check the unit for any leaks. External Leak Protection is always recommended.



POWER TROUBLESHOOTING INDEX

- 1. No Power
- 2. Water is not being Heated or Chilled
- 3. Compressor Runs but does Not Chill
- 4. Compressor is Not Running

1. No Power

Possible Reason	Solution
No power supplied	Verify the building electrical supply to the WL270 Water Treatment System unit is on.
	Verify the power cord is plugged in.
	Verify the power indicator light is on.
	Test the fuse.
	Start normal electrical fault-finding procedures using the electrical diagram located in this manual

2. Water is Not being Heated or Chilled

Possible Reason	Solution
Red Heater and Compressor Switch on unit is off.	Turn Red Heater and Compressor Switch on. I = ON



3. Compressor Runs But Does Not Chill

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

4. Compressor is Not Running

Possible Reason	Solution
Red Heater and Compressor Power Switch button on unit is in the off position	Turn Red Heater and Compressor Power Switch on. <i>I = ON</i>
Compressor Starting Circuit	Turn Red Heater and Compressor Power Switch off. $O = OFF$. Remove the compressor cap on side of the compressor;
	Disconnect the black and red terminal connectors;
	Inspect the starter and overload relay for any defects. Replace components(s) as needed.
	Turn Red Heater and Compressor Power Switch on <i>I</i> = <i>O</i> and retest compressor operation.
Check the Cold-Water Thermostat	With a multi-meter, test OHM's resistance across the terminals of the thermostat.



DISPENSING TROUBLESHOOTING INDEX

- 1. Hot Water flow, Cold Water does not flow
- 2. Hot Water flows, Hot Water does not flow
- 3. Low Flow of Water
- 4. Restricted Flow of Hot Water
- 5. No Water Will Dispense from Unit
- 6. Small Amount of Water Periodically Dispenses from Faucet Automatically
- 7. <u>Dispense Buttons Stick</u>
- 8. Water Leaks

Also includes related instruction for Hot Tank Descaling and Draining Instructions.

1. Hot Water flows, Cold Water does not flow.

Possible Reason	Solution
Cold Tank Frozen	Disconnect power supply for one hour to allow tank to defrost.
	Flush the cold water system.
	Check that the cold thermostat settings are correct
	Cold Water Temperature - Factory Set Point 41° - 5°C Adjustable 1.1° - 12.2°C (34°F - 54°F)
Mechanical Water Outlet Faucet Valve	Check that the mechanical water outlet faucet valve is operating correctly and that water flows through it.

2. Cold Water Flows, Hot Water does not flow.

Possible Reason	Solution
	Verify the pipes feeding the Hot Water Tank.
No Hot Water	Check that the mechanical water outlet faucet valve is operating and the water flows through it.

WL270 Manual Page 42 – Revision 3-16-22



3. Low Flow of Water - Rated Service Flow is 1.89 Liters (0.5 gallons) per Minute

Possible Reason	Solution
Determine Flow of Water	Rated Flow Rate is 1.89 Liters (0.5 gallons) per minute. Check flow rate by dispensing into a container to measure for one minute and measure the amount of water that was dispensed.
Feed Lines too small	Feed lines can restrict flow if run long distances from the supply. It may be necessary to increase the supply line (e.g., use 3/8" feed line vs. ¼".
Elbows and turns in the feed line	Minimize elbows and turns in the feed line.
Filters	Filters with high pressure drop due to fouling or just by design. Change filters more frequently or go to higher micron size filter for local water conditions.
Restrictions	Follow flow path to ensure there are no undiscovered restrictions due to debris or malfunctioning valves, including the supply valve at the source.
Booster Pump	Add a booster pump to the supply line if the feed is slower than needed.



4. 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 unit and visually inspect solenoid connections into the Display PCB. Verify the soldering points on connections are secure into the board. Remove the PCB to inspect the front of the board.
Solenoid Valve is Malfunctioning	Inspect valve components for proper function. Replace as necessary.



5. No Water Will Dispense from Unit

Possible Reason	Solution
Too much water pressure. Recommend 40 to 60 psi for the <i>WL270 Water Treatment System</i> to operate properly.	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
	Check water pressure at the inlet bulkhead with a water pressure gauge.
	Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click".
	Adjust water pressure to 40-60 psi.
Closed water supply valve	Open the water supply valve.
The unit is not properly plugged into electrical outlet	Check electrical outlet connection, or for blown circuit breaker.
Red Heater and Compressor button on unit is in the off position	Turn Red Heater and Compressor switch on. I = ON
Fuse Blown	Replace the 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.
Exhausted Filter / Membrane	Replace filters / membrane as needed.



6. Small Amount of Water Periodically Dispenses from Faucet Automatically

Possible Reason	Solution
	The correct input water pressure is critical to the performance of the unit to allow solenoids to open.
Too much water pressure.	Check water pressure at the inlet bulkhead with a water pressure gauge.
Recommend 40 to 60 psi for the <i>WL270 Water Treatment System</i> to operate properly.	Additional method of verification is to turn off water to unit and press the dispense button. Does the solenoid open without water pressure to the unit? Listen for solenoid to activate, not button "click".
	Adjust water pressure to 40-60 psi.
	Drain unit according to Drain Instructions that are included
	further below in this Troubleshooting Section.
Obstruction in solenoid housing is preventing proper	Remove Reservoir Tank
sealing of component.	Open Faucet Housing and check for Debris.
	Put faucet back together, replace reservoir and fill unit. If
	faucet continues to drip, replace the faucet.

7. <u>Dispense Buttons Stick</u>

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



8. Water Leaks

Most leaks will be detected by the internal **WL270 Water Treatment System** leak detection system that will trigger or turn off the inlet solenoid valve.

Pinhole in Hot Tank Inlet Silicon Elbow from excessive stretching.

Excessive Stretch

REPLACE

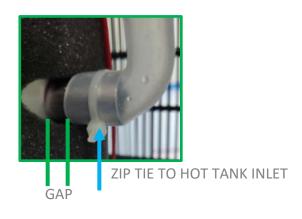


Inspect Hot Tank Inlet Silicon Elbow – Part Number 19-2065 (AK-0067-NWS) for excessive stretch which can potentially leak. If excessive stretch exists, replace.

Solution

<u>Guidance to Replace Hot Tank Inlet Silicon Elbow</u>

- 1. Install with a gap between the silicon elbow and hot tank.
- 2. Zip tie silicon elbow to Hot Tank Inlet.



There should be no stretching of silicon elbow.

Isolate the supply and start normal fault-finding procedures.



HOT TANK DESCALING INSTRUCTIONS

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

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

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

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



CAUTION! STAINLESS STEEL TANK DESCALING.

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

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5-gallon container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- Sanitizing Cartridge
- Food Coloring
- 1. Check to ensure that the Red Heater and Compressor Power Switch is the O=OFF position.



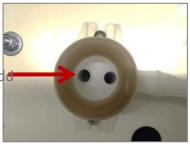
NOTE: Switches have internal LED that illuminates when placed in I=ON position.

- 2. Turn off the water supply and unplug the unit.
- 3. Remove top Cover
- 4. Remove Reservoir Lid
- 5. Remove Hot Tank Drain cap on back of unit and allow all water to drain from unit.



- 6. When unit has finished draining, replace Hot Tank drain cap.
- 7. Remove reservoir from unit.
- 8. Mix descaler per instructions.
- 9. Add descaling mixture to the Hot Tank through the Hot Tank fill portal located in the water inlet port.

Hot Tank fill portal to addescaling mixture to.



- 10. Replace reservoir.
- 11. Turn on water supply and plug in unit.
- 12. Allow reservoir to fill.
- 13. Turn on the Red Heater and Compressor Power Switch. *I=ON* position.



- 14. Allow descaling mixture to remain in Hot Tank for 15 minutes (exposure time may be affected by local water conditions).
- 15. Flush unit until all descaler is removed.
 - <u>WARNING!</u> HOT WATER HAZARD. Unit Produces Very Hot Water and Steam. Always use insulated and chemically compatible containers and let unit cool down before draining the Hot Tank to avoid injury.
 - <u>CAUTION!</u> MUST REPLACE HOT TANK 3-5 YEARS DEPENDING ON USAGE. The Hot Tank and its controls must be replaced a minimum of every 3-5 years depending on usage to ensure efficient and dependable operation.
 - <u>WARNING!</u> REINSTALL ALL PANELS AND COVERS. Always reinstall all panels, protective covers, and fasteners after servicing equipment. Failure to do so could result in severe personal injury and will void the certifications and warranty of the equipment.



WL270 DRAINING INSTRUCTIONS

Drain the **WL270** Water **Treatment System** for transportation.



MARNING! STORE UNIT EMPTY. ALWAYS SANITIZE BEFORE REUSE.

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

Prior to draining the Hot Tank, turn off the Red Heater and Compressor Power Switch O = OFF, and dispense 2 liters of hot water from the machine. As hot water is dispensed from the faucet of the unit, colder water will be introduced into the Hot Tank. Since the Red 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 to disable the heater and compressor.
- 2. Dispense 2 liters of water through the Hot Tank to cool the water temperature in the Hot Tank and avoid burns.





WARNING! HOT WATER CAN BURN OR SCALD.

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

Turn off Water Supply and Bleed Water Pressure

- 3. Isolate the unit from feed water by turning off the supply.
- 4. Dispense cold still water to relieve any pressure built up in the system.
- 5. Remove the water supply line from the hose adaptor.

Drain the Cold Water Tank and Circuit

- 6. Remove Hose Adaptor.
- 7. Remove Drain Caps located on back of unit.
- 8. After unit drains, replace drain caps.



HOT WATER TROUBLESHOOTING INDEX

Hot Water Problems

1. Hot Water is not Hot 83°C (181° +/- 5°F)

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

1. Hot Water is not Hot 83°C (181° +/- 5°F)

NOTE: The *WL270 Water Treatment System* does NOT have Sleep or Power Saving Mode and the hot water should be a minimum of 181°F under normal operating conditions.

The Hot temperature set point is 181° F and is controlled by a thermostat on the side of the tank.

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

The *WL270 Water Treatment System* does NOT have Extra Hot capability and the maximum hot temperature is 186°F.

It typically takes 10 minutes for the 600W Hot Tank to heat the 1.6 Liter of room temperature (ambient) water to the 83°C (181°F) set point.

Possible Reason	Solution
No power to heater elements	Check that the Red Heater and Compressor switch is on. Turn Red Heater and Compressor Switch on.
	I = ON
Hot Tank Overload Devices	Hot Tank Overload Devices (High Safety Limit) will "click"
(High Safety Limit) tripped	when pushed. The Hot Tank Overload Devices (High Safety Limit) are automatically reset when pressed.
Hot Tank Overload Devices	
(High Safety Limit) is a safety	See Resetting Hot Tank Overload Devices (High Safety Limit)
feature to ensure the tank	Instructions that are included further below in this
does not overheat.	<u>Troubleshooting Section</u>
	Turn Power off.
Hot Tank Overload Devices	Check OHM's resistance across terminals on each of the Hot
(High Safety Limit) "open" on	Tank Overload Devices (High Safety Limit) separately. Good
Hot Tank	components will indicate a closed circuit or zero OHM's on
	the meter.
	Replace components as necessary.



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



RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1. Turn off Red Heater and Compressor Power Switch O = OFF on rear of unit.



2. Unplug the Power Cord from rear of unit.

Remove 4 Phillip Screws from the Access Panel on rear of unit and Lower Access Panel.



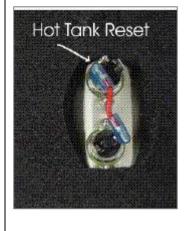
Locate protective metal box on rear of Hot Tank. Push down on top of metal box to access thermostat and overload

4.



Press the reset button







6. Reattach the metal box by depressing the top flap of the metal box so it snaps back into its original position on the Hot Tank.

WL270 Manual



7.	Replace the Access Panel and 4 Philips screws.		
8.	Plug in the Power Cord.		
9.	Make sure the hot and cold tanks are filled with water BEFORE turning on the Red Heater and Compressor Power Switch		
	CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK. Red Heater and Compressor Power Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty Hot Tank.		
10.	Verify the cooler is fully operational before installing it at the customers' site.		



TASTE / ODOR TROUBLESHOOTING INDEX

1. Bad or Plastic Taste

1. Bad or Plastic Taste

Possible Reason	Solution
Reservoir not flushed properly	If the unit is new, it may need flushing for a longer time.