

WL3 FX MANUAL



Waterlogic Commercial Products, LLC
3175 Bass Pro Drive
Grapevine, TX 76051
(800) 288-1891 www.waterlogicdealers.com
Tech Portal Website: techportal.waterlogic.com

WL3 FX MANUAL

Congratulations on your choice of the **Waterlogic WL3 FX Water Treatment System**. The **WL3 FX** model dispenses cold, ambient, and hot water. Every **WL3 FX Water Treatment System** includes:



Bio-Cote Anti-Microbial Protection



Firewall Advanced Purification



Filter configuration can be optimized for all water conditions

The **Waterlogic WL3 FX 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 **Waterlogic Water Treatment System**. Contact your **Authorized Waterlogic Dealer** if you have any questions.

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

Waterlogic 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
- Features and Benefits 6
- Certifications 7
- Model Designations and General Specifications 9
- Electrical and Shipping Specifications 10
- Operating Instructions 11
- Warranty 12

SERVICE GUIDE

- Service Requirements 13
- LG Compressor Description 14
- Hot Tank Principles of Operation 15
- Hot Tank Descaling 16
- Replacement Components (Consumables) 18
- Countertop Drawings and Parts List 19
- Tower Drawings and Parts List 32
- Counter Top Flow Diagram 46
- Tower Flow Diagram 47
- Adjusting Cold Water Set Point 48
- Electrical Schematic 49

INSTALLATION GUIDE

- Pre-Installation Procedures 51
- Countertop Draining Procedure 55
- Tower Draining Procedure 56
- Installation Instructions 57

TROUBLESHOOTING GUIDE

- Fault Code 60
- Disabling Energy Saving Mode 61
- Resetting the Filter Timer 62
- Hot Tank Overheat (ROR) 63
- Resetting the Hot Tank Overload 64
- Power Troubleshooting 66
- Dispense Troubleshooting 68
- Cold Water Troubleshooting 77
- Hot Water Troubleshooting 78

SAFETY ALERT SYMBOLS

Read and follow all safety information carefully. The signal words used in this manual are selected as shown below and based on an assessment of the degree of potential injury or damage (severe or minor) and the occurrence of injury (definitely occurs or has the potential to occur) when the warning is ignored:

⚠ DANGER!

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

⚠ WARNING!

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

⚠ CAUTION!

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

SAFETY PRECAUTIONS

Basic safety precautions should be followed, including the following:

Ensure all Local, State, and Federal Laws and Codes including health and safety guidelines are met when installing **Waterlogic** Equipment. Only qualified service technicians should attempt installation and service of **Waterlogic** Equipment. Always read the entire operating instructions before using the appliance and save these instructions for future use.

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

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

⚠ WARNING! **AUTHORIZED USE ONLY.** *This appliance is to be used for its intended purpose as described in this manual. Untrained individuals who use this manual assume the risk of any resulting property damage or personal injury. This appliance can't be used by children and persons with reduced physical, sensory, or mental capabilities or lack of experience.*

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

- ⚠ WARNING! DO NOT OPERATE IF DAMAGED.** *Unplug and isolate water supply if abnormal conditions exist. Contact Waterlogic or authorized dealer for repair, service, and installation to avoid hazards.*
- ⚠ WARNING! HOT WATER.** *Unit produces Hot Water in excess of 80°C (175°F). Water above 52°C (125°F) can cause severe burns or scalding. Keep unauthorized people and children away from the unit to avoid accidental dispensing of hot water.*
- ⚠ WARNING! CONNECT TO POTABLE WATER SUPPLY.** *This system is to be used for water only and is not intended for use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.*
- ⚠ WARNING! TIP HAZARD.** *Dispenser could tip or fall causing serious injury. Always install unit on a firm, flat, and level surface and secure unit to cabinet, wall, or floor if needed. Never place heavy items on top of unit and never climb, stand, or hang on unit or storage cabinet to prevent injury and damage.*
- ⚠ WARNING! UNIT IS HEAVY. TWO PERSON LIFT REQUIRED.** *Transport unit empty and always use material handling equipment or two people with proper lifting technique to reduce injury risk.*
- ⚠ WARNING! STORE AND TRANSPORT UNIT EMPTY. ALWAYS SANITIZE BEFORE USE.** *The unit must be completely drained before storing to avoid stagnation and reduce microbiological contamination (potential bacterial growth). Always sanitize before use to eliminate any potential microbiological contaminants.*
- ⚠ CAUTION! INDOOR USE ONLY.** *Never expose to direct sunlight, heat sources, or ambient air temperature above 37°C (100°F) or below 2°C (35°F). Install indoors and keep unit away from excessive humidity. Never expose to freezing temperatures. Ensure there is adequate clearance around the unit to allow refrigeration system condenser to dissipate heat. Warmer environments require more clearance around the unit. Minimum clearance around all surfaces of the machine is 2-inches. Installs where the ambient temperature exceeds 27° C (80°F), require a minimum of 4-inches clearance for proper heat dissipation and efficient operation.*
- ⚠ CAUTION! USE A WATER PRESSURE REGULATOR.** *Waterlogic will not be responsible for injury or damage caused by excessive water pressure. Input or feed pressure must be 40 psi to 60 psi. Be aware of any potential pressure surges caused by building/municipal pumping stations.*
- ⚠ CAUTION! USE UV STABILIZED SUPPLY LINES.** *Feed the unit with a potable ambient or cold water supply only. Feed water over 37°C (100°F) can damage the treatment components. Water block devices and external leak detectors are strongly recommended. Locate the unit as close to the water supply and the electrical connections as possible. Immediately isolate or close water supply valve and contact service representative if leak is noticed.*

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

WL3 FX FEATURES AND BENEFITS

Cold, Ambient, and Hot Water

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

High Volume Storage and Water Capacity

Tower Model has 4 liters of Cold Water Capacity and 1.5 Liters of Hot Water Capacity. Counter Top has 2 liters of Cold Water Capacity and 1.5 Liters of Hot Water Capacity.

BioCote® Anti-Microbial Protection

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



Large Dispense Area with Recessed Faucet

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

Leak Prevention

WL3 FX Water Treatment Systems are supplied with an extra solenoid to provide redundant protection and reduces accident potential.

Child Safeguard

The **WL3 FX Water Treatment System** with Hot Water requires the Hot Water selection icon be double-tapped and held to dispense Hot Water. Note there is a 2 second delay until hot water begins flowing. It will default back to the Cold selection after 3 seconds of inactivity to prevent accidental dispensing of Hot Water.

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.

Energy Saver

The **WL3 FX Water Treatment System** comes from the factory with Energy Saver active. For the WL3 FX to comply with Energy Star, the energy saver must come activated (ON) from the factory. When no buttons are pressed on the front user interface panel for 3 hours, the machine will automatically enter energy saver mode, and the heater to the hot tank will be turned OFF. When any one of the front buttons are pressed while the system is in energy saver mode, the WL3 FX will exit energy saver mode, and the hot tank will begin heating water. The hot water tank will be at set temperature within 10-minutes after exiting energy saver mode. Energy saver can be disabled by adjusting **dipswitch #2, shown on Page 59** of this manual. While the unit is in sleep mode, the “Power” LED will slowly fade then illuminate continuously, while all other LEDs will be off.

CERTIFICATIONS

WL3 FX Water Treatment Systems have been tested and certified to rigorous NSF and UL Standards. We believe that performance testing and certifications validate **Waterlogic** as a world-leader in water treatment systems.

Waterlogic WL3 FX Component Certifications Include:



Intertek

UL399 – Certified Drinking Water Cooler

Intertek Labs (ETL) Certified the *WL3 FX 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 372 – Drinking Water System Components – Lead Content

CSA B483.1 - Drinking Water Treatment Systems

NSF / ANSI 372 – Drinking Water System Components for low Lead Content, and CSA B483.1 - Drinking Water Treatment Systems.

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

Firewall™ Technology contains our latest, most innovative and patented breakthrough, “The Firewall™”, the most comprehensive UV purification system for point-of-use water treatment systems ever developed. The Waterlogic Firewall component has been tested and certified by the Water Quality Association (WQA) to NSF/ANSI-55 Class A – Ultraviolet Microbiological Water Treatment Systems



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



NSF P231/US EPA Guide Standard and Protocol for Microbiological Purifiers

The Public Health and Safety Organization establishes minimum requirements for health and sanitation characteristics of microbiological water purifiers. The requirements are based on the recommendations of the U.S. Environmental Protection Agency's Task Force Report.

NSF/ANSI-42 – Chlorine, Taste and Odor Reduction

NSF/ANSI-53 – Lead, Cyst, and Asbestos Reduction

The Public Health and Safety Organization establishes minimum requirements for materials, design, construction, and performance of drinking water treatment units that are designed to reduce specific aesthetic-related contaminants in public or private water supplies.

Note: The WL350 contains the FT-0063-IL one-micron CBC filter (including FT-0064 filter element) certified to NSF/ANSI 42 for Chlorine, Taste, and Odor Reduction, and NSF/ANSI-53 Lead, Cyst, and Asbestos reduction. This filter must remain installed in the WL350 to maintain these certifications.



Energy Star Certified

The **WL3 FX Water Treatment System**, has been tested and certified to the Energy Star, a US Environmental Protection Agency (EPA) program that helps our customers save money and protect our climate through superior energy efficiency.

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



Safe Drinking Water Act

Waterlogic Water Treatment Systems conform to the Safe Drinking Water Act (SWDA) “lead-free” amendment effective January 4, 2014.

MODEL/PART DESIGNATIONS

BRAND NAME	DESCRIPTION	MODEL - PART NUMBER
WL3 FX Counter Top	WL3 FX Counter Top – Cold, Hot, Ambient	WL3FX-MU-HCA
	F-3FX-MU-HCA-TTL111NX-BL-WLU	
	Serial Number Prefix: NB3H349BL	
WL3 FX Tower	WL3 FX Tower – Cold, Hot, Ambient	WL3FX-FS-HCA
	F-3FX-FS-HCA-TTL111NX-BL-WLU	
	Serial Number Prefix: NB1H349BL	

SPECIFICATIONS

<u>ITEM</u>	<u>WL3 FX</u>
Water Connection	¼" Quick Connect
Cold Water Temperature	Cold Water Temperature – Factory Set Point 5°C (41°F) Adjustable - 1.1° - 12.2°C (34° - 54° F.)
Cold Tank Size	Tower: 4 Liters (1.1 Gallons) Counter Top: 2 Liters (.53 Gallons)
Hot Water Temperature	87°C (189°F) Factory Set Point 92°C (198°F) Extra Hot Factory Set Point
Hot Water Manual Reset Overload	105°C (221°F)
Hot Tank Size	1.5 Liters (.40 Gallons)
Recommended Service Pressure	40-60 psi (275-414 kPa) – Use Pressure Regulator
Maximum Service Pressure	100 psi (689 kPa) – Use Pressure Regulator
Rated Service Flow	1.89 Liters per Minute (0.5 gallons per minute)
Environmental Temperature	2° - 37°C (35° - 100°F)
UV Lamp	Tower: 13 Watts Counter Top: 13 Watts
Heater	500 W
Refrigerant Gas	R134a, 38g, 1.34 ounces
R134a Pressures	High (230 psi), Low (90 psi)