



Owner's Guide & Reference Manual

Ultraviolet (UV) Disinfection System

Chemical-free disinfection. Bacteria and virus inactivation at the speed of light.



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PART ONE SAFETY & COMPLIANCE

Read before installation, operation, or service

1.1 Important Safety Instructions

This manual contains critical information for the safe installation, operation, and maintenance of your Life Filtration system. Failure to follow these instructions may result in personal injury, property damage, or voiding of your warranty. All installation and servicing must be performed by a trained Life Filtration professional.

⚠ WARNING

ELECTRICAL HAZARD — Disconnect power from the unit before performing any service or maintenance. Do not operate the system with a damaged power cord, plug, or adapter. Contact Life Filtration for any electrical component replacement.

⚠ WARNING

WATER QUALITY — This system is NOT intended for use with water that is microbiologically unsafe or of unknown quality without adequate pre-disinfection. Do not connect to non-potable water sources.

◆ CAUTION — CHILDREN & VULNERABLE PERSONS

This appliance is not intended for use by children or persons with reduced physical, sensory, or mental capabilities without direct supervision.

◆ CAUTION — APPROVED PARTS ONLY

Use only Life Filtration certified replacement filters and components. Use of unauthorized parts may reduce performance, void your warranty, and create safety hazards.

◆ CAUTION — PRESSURE LIMITS

Never exceed the maximum operating pressure specified for your system. Install a pressure-reducing valve if your inlet pressure exceeds the rated maximum.

1.2 Before You Begin

Pre-Installation Checklist

- Verify that your water supply meets the inlet pressure and temperature requirements.
- Confirm your home's plumbing connections match the system's inlet/outlet specifications.
- Check and comply with all applicable local plumbing codes and ordinances.
- Have your water tested by a Life Pro before installation to identify any pre-treatment needs.
- Ensure a certified Life Filtration technician performs the installation.

NOTE Life Filtration provides free professional installation with every system. Do not attempt self-installation. Improper installation may void your warranty and cause property damage.

PART TWO SYSTEM OVERVIEW & SPECIFICATIONS

How your system works and what it delivers

2.1 System Description

The Life Filtration Ultraviolet (UV) Water Disinfection System provides a powerful, chemical-free method of inactivating harmful microorganisms in your water supply. Using germicidal UV-C light, the system destroys the DNA of bacteria, viruses, cysts, and other pathogens as water passes through the stainless-steel UV chamber, rendering them unable to reproduce or cause illness. The process adds nothing to the water and removes nothing — it simply disinfects.

Suitable for residential, commercial, and industrial applications, the UV system is most effective when installed downstream of a sediment and carbon pre-filtration system to ensure maximum UV light penetration. Your system is engineered for reliability, minimal maintenance, and long-term performance.

2.2 What This System Targets

The following contaminants and microorganisms are inactivated by your Life Filtration UV system. Actual performance depends on water clarity, UV dose, and regular lamp maintenance.

Contaminant Category	Examples
Bacteria	E. coli, Coliform, and other harmful bacteria
Viruses	Broad-spectrum viral pathogens
Cysts	Giardia, Cryptosporidium
Protozoa	Various waterborne protozoa
Algae	All common algae types
Mold & Fungal Spores	Mold, fungi
Pathogens	Broad spectrum
Microorganisms	General microbial contamination

2.3 System Stages

Each stage of your system plays a specific role in the disinfection process. Understanding each stage helps you recognize when service may be needed.

Stage	Component	What It Does	Service Interval
1	Pre-Filter (Required)	Sediment and carbon pre-filtration must be installed upstream to ensure clear water enters the UV chamber — turbidity blocks UV penetration	Per pre-filter specs
2	UV Chamber	Stainless steel chamber housing the UV-C lamp and quartz sleeve. Water flows around the lamp and is exposed to germicidal UV-C radiation	Annual lamp replacement
3	Quartz Sleeve	Transparent quartz sleeve surrounds the UV lamp, protecting it from water while allowing UV-C light to pass through at maximum intensity	Annual cleaning; replace if scratched

NOTE Filter life estimates are based on average household conditions. High sediment or turbidity levels may require more frequent service. Your Life Pro will assess performance at each annual visit.

2.4 Technical Specifications

System Type	UV-C Germicidal Water Disinfection
UV Wavelength	254 nm (peak germicidal effectiveness)
UV Dose	Minimum 40 mJ/cm ² (NSF/ANSI 55 Class A rated)
Application	Residential, Commercial, Industrial
Targets	Bacteria, viruses, cysts, protozoa, microorganisms
Lamp Life	9,000 – 12,000 hours (approx. 1 year)
Power Required	Yes (UV lamp and controller)
Adds to Water	Nothing — chemical-free process
Pre-Treatment	Sediment + carbon pre-filtration required upstream
Installation	Free Professional Installation Included

2.5 Factors That Affect Performance

System performance is influenced by several variables including inlet water pressure, water temperature, TDS concentration, and water turbidity. Your installer will monitor these factors during annual water testing visits and adjust the system or recommend pre-treatment if conditions change.

Water Clarity / Turbidity

Turbid or colored water absorbs UV-C radiation, dramatically reducing effectiveness. Sediment and carbon pre-filtration upstream are mandatory for proper UV performance.

Water Pressure

Low pressure reduces flow rate. Keep inlet pressure within specified limits.

Water Temperature

Very cold water can affect UV lamp output. System performs optimally within the rated temperature range.

Lamp Age

UV output degrades over time even if the lamp still appears lit. Annual replacement is mandatory regardless of appearance.

Usage Volume

Higher daily water consumption increases cumulative lamp hours, accelerating the need for replacement.

PART THREE OPERATION & INDICATORS

Understanding your system's controls and status displays

3.1 Starting Up Your System

Your Life Filtration system is professionally commissioned during installation. The steps below describe what happens during initial startup and what you should expect.

Step	Action	Details
1	Initial Flush	The system will perform an initial flush to clear the filters. Duration: 5–10 minutes.
2	Pressure Stabilization	Allow 10–15 minutes for system pressure to stabilize after the initial flush.
3	First Water Draw	Discard the first 1–2 liters from any dispense point after initial startup.
4	Normal Operation	The system is now ready for normal use. The green indicator light should be on.

NOTE The UV system does NOT remove sediment, chlorine, or dissolved contaminants. It must be used as part of a complete filtration system. Turbid or colored water significantly reduces UV effectiveness — pre-filtration is mandatory.

NOTE The UV lamp MUST be replaced annually regardless of appearance. UV intensity degrades over time even when the lamp appears to still be lit.

PART FOUR MAINTENANCE & LAMP REPLACEMENT

Keeping your system in peak condition

4.1 Maintenance Philosophy

Life Filtration systems are designed to be low maintenance for the customer. All scheduled maintenance is handled by your Life Pro as part of your included service plan. The information in this section is provided for reference and transparency, so you understand exactly what service your system receives.

✓ Annual Maintenance Free yearly visit by a certified Life Filtration technician	✓ Annual Water Testing Free on-site water quality testing each year	✓ Unlimited Service Calls No caps, no charges — ever
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4.2 Maintenance Schedule

Maintenance Task	Who Performs	Frequency	Notes
Replace UV lamp	Life Filtration Installer	Annually	Lamp degrades regardless of appearance — never skip
Clean quartz sleeve	Life Filtration Installer	Annually	Mineral deposits reduce UV transmission
Inspect quartz sleeve for cracks	Life Filtration Installer	Annually	Cracked sleeve allows water contact with lamp
Test UV intensity (if meter equipped)	Life Filtration Installer	Annually	Confirms system is delivering adequate UV dose
Inspect pre-filtration systems	Life Filtration Installer	Annually	Turbid water upstream severely reduces UV performance
Annual water quality / microbial test	Life Filtration Installer	Annually	Included — confirms disinfection effectiveness
Check power connections and controller	Life Filtration Installer	Annually	Ensure alarm system is functioning

4.3 Lamp Replacement Procedure

Lamp replacement is performed by your Life Filtration Installer during the annual maintenance visit. The steps below describe the process for reference. Contact Life Filtration at (786) 347-1982 to schedule service.

Step	Action	Details
1	Power Off — CRITICAL	Turn off power to the unit before beginning. Never service the unit while it is powered.
2	Allow Lamp to Cool	Wait a minimum of 5 minutes. The UV lamp generates heat during operation.
3	Close Water Supply Valve	Shut off the water supply upstream of the UV system.

Step	Action	Details
4	Remove Lamp Cap and Lamp	Your Life Pro will carefully remove the lamp cap and extract the UV lamp.
5	Remove and Clean Quartz Sleeve	The quartz sleeve is inspected and cleaned. Replace if scratched or cracked.
6	Install New Lamp	A new Life Filtration certified UV lamp is installed.
7	Restore Power and Verify	Power is restored and the green indicator light is confirmed operational.
8	Record Service Date	Lamp replacement date is logged in the Service Record (Section 6.3).

NOTE Only use Life Filtration certified UV lamps. Third-party lamps may not deliver adequate UV dose, can reduce disinfection performance, and will void your Warranty.

4.4 System Sanitization

Annual sanitization of the system is recommended to prevent bacterial growth inside filter housings and tubing. This procedure is performed by your Life Filtration Installer during the annual maintenance visit and is included in your service plan at no charge. Do not attempt to sanitize the system yourself with household chemicals, as this can damage components.

PART FIVE TROUBLESHOOTING

Diagnosing and resolving common issues

5.1 Before You Call for Service

Use the troubleshooting guide below to identify common issues and their solutions. If the problem persists after following the recommended actions, contact Life Filtration at (786) 347-1982 — unlimited service calls are included with your system.

Symptom	Possible Cause	Recommended Action
Red or alarm indicator lit	UV lamp failure or critically low intensity	STOP USE IMMEDIATELY. Contact Life Filtration. Do not use water until UV system is restored.
No indicator lights	Power disconnected	Check power cable, plug, and circuit breaker. Contact Life Filtration if power is confirmed.
Alarm sounding continuously	Lamp failure confirmed	Power off unit. Contact Life Filtration for emergency lamp replacement.
Water appears discolored or turbid	Pre-filter system needs service	Contact Life Filtration — turbid water upstream blocks UV disinfection effectiveness.
Low UV reading on meter	Fouled quartz sleeve or aging lamp	Schedule immediate service. Inadequate UV dose means microorganisms are not being inactivated.

5.2 Frequently Asked Questions

Q Does the UV system remove chemicals or minerals?

A No. UV disinfection only inactivates microorganisms. It does not remove chlorine, heavy metals, dissolved solids, or other chemical contaminants. It must be used as part of a complete filtration system that includes sediment and carbon pre-filtration.

Q What happens if the lamp burns out?

A Stop using the water for drinking until the lamp is replaced. Contact Life Filtration immediately for an emergency service call — unlimited service calls are included.

Q Why does the lamp need replacing annually if it still looks lit?

A UV lamps degrade in their ability to emit germicidal UV-C radiation over time, even if they continue to produce visible light. After approximately 9,000–12,000 hours (one year), the UV dose may be insufficient to inactivate pathogens. Annual replacement is mandatory for your family's safety.

Q Is the UV process safe?

A Yes. UV-C disinfection is a proven, chemical-free process used in hospitals, municipal water treatment plants, and food processing facilities worldwide. It leaves no residue in the water and alters nothing about the water's taste, odor, or chemistry.

PART SIX WARRANTY, SERVICE RECORD & CONTACT

6.1 Warranty

WHAT IS COVERED:

This Warranty covers defects in materials or workmanship in manufacturing of your Life Filtration water filtration system.

FOR HOW LONG:

This warranty runs for the life of the product ("25 Year Lifetime Warranty").

WHAT IS NOT COVERED:

This warranty does not cover filter cartridges and any products that were not used in compliance with the instructions or that have been abused or operated incorrectly. It also does not cover incidental or consequential damages caused by failure of the product. Finally, this warranty is voided if the product is used with parts that are not genuine Life Filtration parts. This includes, but is not limited to: replacement filters; Electronic components are covered for a 5 year period on our Titanium systems and a 7 year period on Signature systems. And a 10 year period on tanks for Signature.

WHAT LIFE FILTRATION WILL DO:

We will replace the defective part of the covered product or provide you with installation instructions.

If you need to file a warranty claim, contact Life Filtration at (786) 347-1982 or Clientservices@lifefiltration.com within the Warranty Period to describe the problem to a customer service representative who will verify that the product is under warranty and arrange for delivery of a replacement part.

HOW STATE LAW APPLIES;

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

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.

WARRANTY CARD:

Warranty registration is not required for coverage under the Life Filtration Limited Warranty and is not necessary for for factory direct purchases made from <https://www.lifefiltration.com>.

If you purchased from a retailer or dealer, please complete the online warranty registration form at

<https://www.lifefiltration.com>.

Once registered online, we will have a record of your purchase and a proof of purchase for your records.

➔ <https://www.lifefiltration.com>

6.2 Your Included Service Plan

✓ Free Professional Installation Certified technician installs everything at no charge	✓ Annual Maintenance Visits One scheduled visit per year to inspect and service your system	✓ Annual Water Testing On-site water quality testing at no cost, every year	✓ Unlimited Service Calls We come out as many times as needed — no fees, no limits
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6.3 Contact Life Filtration

For service, warranty claims, lamp replacements, or any questions about your system, contact Life Filtration using the information below. A Life Pro is available to assist you.

Office Address	1001 Brickell Bay Drive #2701, Miami, FL
Customer Service	(786) 347-1982
Email	clientservices@lifefiltration.com
Website	www.lifefiltration.com
Business Hours	Monday – Friday, 8:00 AM – 6:00 PM EST
Emergency Line	(786) 347-1982 (available after hours for urgent issues)

LIFE FILTRATION

1001 Brickell Bay Drive #2701, Miami, FL · (786) 347-1982 · www.lifefiltration.com