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› iSpring UVF55FS Whole House UV Water Filter User Manual

iSpring UVF55FS

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Model: **UVF55FS** | Brand: **iSpring**

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the iSpring UVF55FS Whole House UV Water Filter. This system is designed to provide a final stage of water treatment for your entire household, ensuring water quality by neutralizing bacteria, viruses, and other pathogens without the use of chemicals. The UVF55FS model features an upgraded ballast with a smart flow sensor switch, which optimizes UV lamp life and energy consumption by activating the UV light only when water flow is detected.

2. PRODUCT OVERVIEW

The iSpring UVF55FS system consists of a stainless steel reactor chamber, a UV lamp, a quartz sleeve, a smart flow sensor switch, and a ballast. Mounting clips are included for installation.



Figure 2.1: Overview of the iSpring UVF55FS Whole House UV Water Filter system, showing the stainless steel reactor, UV lamp, quartz sleeve, ballast, and mounting clips.

Key Features:

- **Whole House Water Treatment:** Provides comprehensive UV sterilization for all water entering your home.
- **Smart Flow Sensor Switch:** The upgraded 55W ballast (UVT55FS) includes a smart flow sensor switch with 'Auto', 'Move', and 'Stop' modes. The sensor activates the UV lamp when the flow rate reaches 0.66 gallons per minute (2.5 L/m), extending lamp life.
- **High Flow Rate:** Designed for a 12 GPM flow rate with minimal pressure loss, featuring 1-inch MNPT inlet/outlet connections.
- **Durable Components:** Features a 37.5-inch 304 stainless steel reactor chamber and a quality 55-watt UV lamp (UVB55FS) with a long bulb life of up to 9,000 hours.
- **Chemical-Free:** An environmentally friendly alternative to chemical treatments, producing no chemical byproducts.

3. SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of the UV water filter. It is recommended to install the unit after any existing whole-house sediment and carbon filtration systems to ensure optimal UV light penetration.

Installation Steps:

1. **Mounting:** Securely mount the UV reactor chamber using the provided mounting clips. Ensure the unit is installed vertically or horizontally in a location that allows for easy access for maintenance.

2. **Plumbing Connections:** Connect the water inlet and outlet to the 1-inch MNPT ports on the UV reactor. Use appropriate plumbing fittings and ensure all connections are watertight. It is recommended to use flexible stainless steel connections rather than plastic pipes directly connected to the UV unit, as UV light can degrade plastic over time.
3. **Quartz Sleeve and UV Lamp Installation:** Carefully insert the quartz sleeve into the reactor chamber, ensuring the O-rings are properly seated. Then, insert the UV lamp into the quartz sleeve. Handle these components with care as they are fragile.
4. **Electrical Connection:** Connect the UV lamp to the ballast and then plug the ballast into a grounded electrical outlet. It is advisable to use a GFCI (Ground Fault Circuit Interrupter) protected outlet.
5. **Leak Check:** After installation, slowly turn on the water supply and check for any leaks. Address any leaks before proceeding.

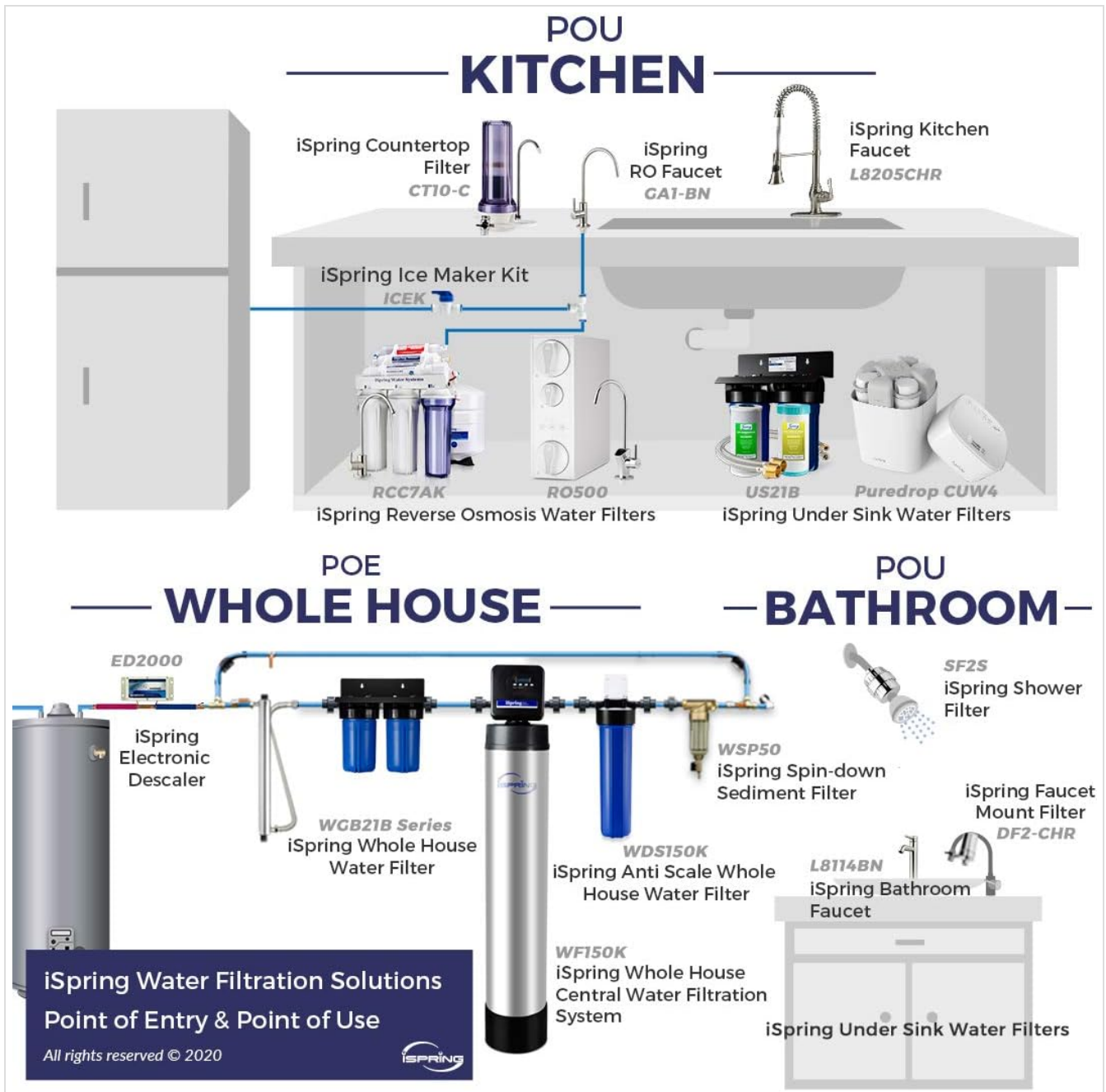
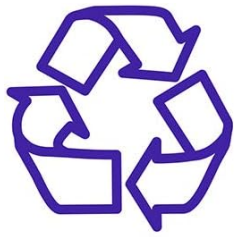


Figure 3.1: Dimensional diagram of the UV reactor chamber, indicating its length (37.5 inches overall, 33 inches between connections) and diameter (2.5 inches), along with 1-inch MNPT inlet/outlet ports.



Sustainable

UV filter is an sustainable alternative to chlorine removal treaments.



Go Green

No harmful chemicals need to be added to your water.



Reliable

Build your trust in water for your entire household.



Cost-Effective

Only the lamp needs to be replaced annually. Low electricity use. No waste water.

Figure 3.2: Illustrative diagram showing the integration of iSpring water filtration solutions for Point of Use (POU) in kitchen and bathroom, and Point of Entry (POE) for whole house systems, where the UV filter would typically be the final stage.

4. OPERATING INSTRUCTIONS

The iSpring UVF55FS is designed for automated operation through its smart flow sensor switch.

Ballast Modes:

- **Auto Mode:** This is the recommended mode. In 'Auto' mode, the UV lamp will only activate when water flow is detected by the sensor. This conserves energy and extends the life of the UV lamp. The sensor will kick on when the flow rate reaches 0.66 gallons per minute (2.5 L/m).
- **Move Mode:** (If applicable to your specific ballast version) This mode may allow for continuous operation or specific testing. Refer to your ballast's specific instructions if this mode is present.
- **Stop Mode:** This mode deactivates the UV lamp. Use this mode when performing maintenance or if the system needs to be temporarily shut down.

Ensure the ballast is set to 'Auto' for normal operation to protect the UV lamp and maximize its lifespan.

5. MAINTENANCE

Regular maintenance ensures the continued effectiveness and longevity of your UV water filter system.

Maintenance Schedule:

- **UV Lamp Replacement:** The UV lamp (UVB55FS) has an effective life of up to 9,000 hours. It is recommended to replace the UV lamp annually to ensure optimal sterilization performance.
- **Quartz Sleeve Cleaning:** The quartz sleeve should be cleaned every 6-12 months, or more frequently depending on water quality, to prevent mineral buildup that can reduce UV light transmission.
- **O-Ring Inspection:** Inspect O-rings during lamp replacement or sleeve cleaning and replace if they show signs of wear or damage to prevent leaks.

RELIABLE

Build your trust in water for your entire household

CHEMICAL FREE

No harmful chemicals need to be added

ECO FRIENDLY

An alternative to chlorine removal treatments



Extended operation life
9,000 – 10,000 hours

Figure 5.1: Close-up view of the UV lamp, highlighting its design for extended operation life of 9,000-10,000 hours.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your UV water filter system.

Common Issues and Solutions:

- **No UV Light / Lamp Not On:**
 - Check if the ballast is properly plugged into a working electrical outlet.

- Ensure the UV lamp is correctly seated in the ballast connector.
 - Verify the ballast is in 'Auto' mode and water flow is present (if applicable).
 - The UV lamp may have reached the end of its life and requires replacement.
 - The ballast may be faulty and require replacement.
- **Water Leaks:**
 - Check all plumbing connections for tightness.
 - Ensure O-rings on the quartz sleeve are correctly positioned and not damaged. Replace O-rings if necessary.
 - Verify the quartz sleeve is not cracked or broken.
- **Reduced Water Flow:**
 - Check for blockages in pre-filters if part of a larger system.
 - Inspect the UV reactor for any internal obstructions.
- **System Not Sterilizing Effectively:**
 - Ensure the UV lamp is functioning and has not exceeded its recommended lifespan.
 - Clean the quartz sleeve to remove any buildup that may be blocking UV light.
 - Verify that the water entering the UV system meets the recommended clarity and sediment levels (pre-filtration is essential).

7. SPECIFICATIONS

Specification	Detail
Brand	iSpring
Model Name	UVF55FS Whole House UV Water Filter
Part Number	UVF55FS
Product Dimensions	40"L x 8"W x 8"H (Overall)
Item Weight	7.5 Pounds
Installation Type	Permanent Installation
Power Source	AC
Maximum Flow Rate	12 Gallons Per Minute
Special Feature	Durable
UPC	810004171770
Manufacturer	iSpring
Batteries Included?	No
Batteries Required?	No

8. WARRANTY AND SUPPORT

iSpring is committed to providing reliable products and excellent customer service.

Warranty Information:

- **30-Day Money Back Guarantee:** If you are not satisfied with your purchase, you may return it within 30 days for a refund.
- **1-Year Manufacturer Warranty:** The product is covered by a 1-year manufacturer warranty from the date of purchase.
- **Extended Warranty:** An extended warranty may be available upon product registration. Please refer to the iSpring website for details on how to register your product.

Customer Support:

iSpring offers lifetime technical support and customer service for its products. If you encounter any issues or have questions regarding your UVF55FS system, please contact iSpring customer support for assistance.