

Aquasure AF-UV12-BULB

Aquasure Quantum Series UV Replacement Bulb AF-UV12-BULB Instruction Manual

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Aquasure Quantum Series UV Replacement Bulb, model AF-UV12-BULB. This 39-watt UV lamp is designed to maintain the disinfection performance of your Aquasure Quantum Series 12 GPM Whole House UV Light System.

1.1 Purpose of the UV Bulb

The Aquasure AF-UV12-BULB emits ultraviolet-C (UV-C) light, which is a proven method for neutralizing up to 99.99% of harmful microorganisms in water. This chemical-free disinfection process helps protect your household from waterborne pathogens such as bacteria, viruses, cysts, mold spores, fungus, yeasts, and algae, without affecting the water's taste, color, odor, or pH levels.

1.2 Compatibility

The AF-UV12-BULB is specifically designed for compatibility with the following Aquasure systems:

- Aquasure Quantum 12 GPM UV Light System (AS-UV12S)
- Aquasure Harmony Series Water Softener Bundles (AS-SPXUV12S, AS-WSUV48D, AS-WSUV64D, AS-WSUV48RO, AS-WSUV64RO, AS-SE1000FMU)

How UV Water Sterilizer Works

Aquasure Quantum UV system uses proven technology that kills 99.99% of harmful microorganisms in your water.

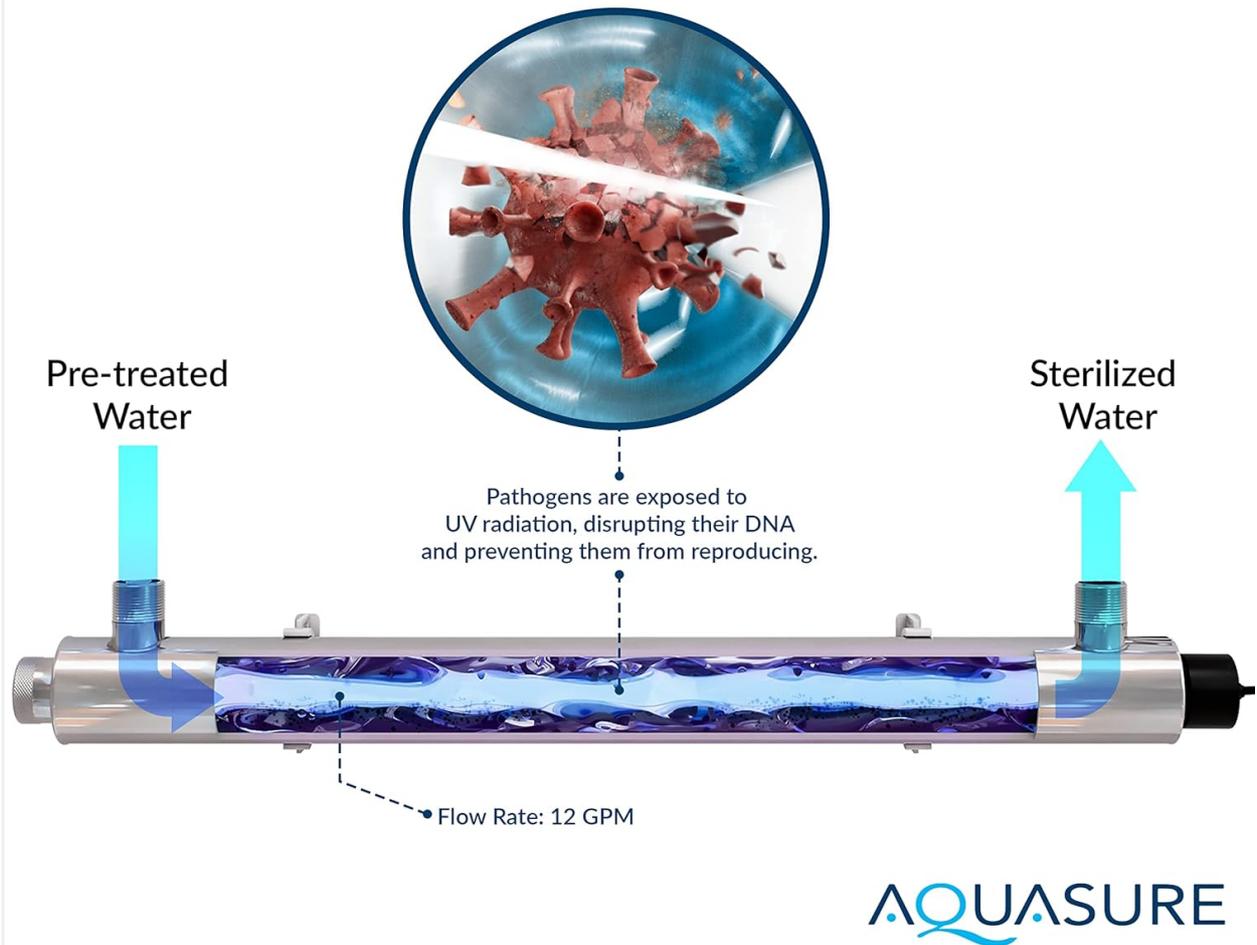


Image: The Aquasure AF-UV12-BULB replacement UV bulb shown alongside the compatible Aquasure AS-UV12S UV water sterilizer system, illustrating its precise fit and design for optimal system performance.

2. SAFETY PRECAUTIONS

Please read and understand all safety instructions before handling or installing the UV bulb. Failure to follow these instructions may result in injury or damage to the product.

- **UV Radiation Hazard:** Do not look directly at the illuminated UV bulb. UV-C light can cause severe eye and skin damage. Always ensure the system is powered off before opening the UV chamber.
- **Electrical Hazard:** Disconnect power to the UV system before performing any maintenance or installation. Ensure hands are dry when handling electrical components.
- **Fragile Component:** The UV bulb is made of glass and is fragile. Handle with care to prevent breakage. Do not touch the glass portion of the bulb with bare hands; oils from your skin can create hot spots and reduce bulb life. Use gloves or a clean cloth.
- **Water Hazard:** Ensure the water supply to the UV system is shut off and pressure is relieved before opening the UV chamber to prevent water leaks.
- **Disposal:** Dispose of old UV bulbs according to local regulations for hazardous waste, as they may contain mercury.

3. INSTALLATION GUIDE

Follow these steps carefully to replace the UV bulb in your Aquasure Quantum Series UV Light System.

3.1 Before You Begin

- Ensure you have the correct replacement bulb (Aquasure AF-UV12-BULB).
- Gather necessary tools: gloves (latex or cotton), clean cloth.
- Locate the UV system's power outlet and water shut-off valves.

3.2 Replacement Procedure

1. **Disconnect Power:** Unplug the UV system from the electrical outlet.
2. **Shut Off Water:** Close the inlet and outlet water valves to the UV system.
3. **Drain System (Optional):** If possible, relieve pressure and drain any water from the UV chamber.
4. **Remove Protective Cap:** Carefully unscrew and remove the protective cap from the end of the UV chamber where the bulb connector is located.
5. **Disconnect Bulb Connector:** Gently pull the electrical connector away from the end of the UV bulb.
6. **Remove Old Bulb:** Carefully slide the old UV bulb out of the quartz sleeve. Be cautious as the bulb may be hot if recently in use.
7. **Inspect Quartz Sleeve:** Inspect the quartz sleeve for any cracks, scratches, or mineral buildup. Clean the sleeve with a clean cloth and a mild acid solution (like vinegar) if necessary, then rinse thoroughly with water. Replace the sleeve if damaged.
8. **Install New Bulb:** Wearing gloves, carefully insert the new AF-UV12-BULB into the quartz sleeve. Ensure it is fully seated. Avoid touching the glass with bare hands.
9. **Reconnect Bulb Connector:** Reconnect the electrical connector to the new UV bulb, ensuring a secure fit.
10. **Replace Protective Cap:** Screw the protective cap back onto the UV chamber.
11. **Restore Water Flow:** Slowly open the inlet and outlet water valves to the UV system, checking for leaks.
12. **Restore Power:** Plug the UV system back into the electrical outlet. The indicator light should illuminate, confirming proper operation.

4. OPERATION

Once installed and powered on, the Aquasure AF-UV12-BULB operates continuously within the UV system to disinfect your water. The UV-C light penetrates the cell walls of microorganisms, disrupting their DNA and preventing them from reproducing, effectively rendering them harmless.

THE POWER OF UV-C FILTRATION

EFFECTIVELY STERILIZES



BACTERIA



VIRUS



CYSTS



FUNGI



E. COLI



ALGAE



COLIFORM



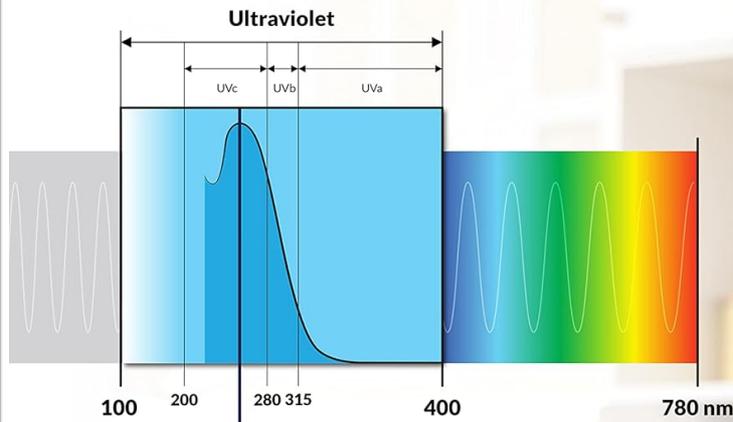
GIARDIA

Image: A diagram explaining the operational principle of the Aquasure Quantum UV water sterilizer. It depicts pre-treated water flowing into the system, where pathogens are exposed to UV radiation, disrupting their DNA and preventing reproduction, resulting in sterilized water exiting at a flow rate of 12 GPM.

The system is designed for continuous purification, providing safe water for various household uses including cooking, bathing, and cleaning.

CHEMICAL-FREE & RELIABLE

UV-C is 100% chemical-free and does not affect taste, color, and odor. Ideal for both residential and commercial water purification on city, municipal or well water.



Aquasure Quantum UV Lamp uses 254 nm UV-C radiation to destroy bacteria at the DNA level



CHEMICAL
FREE



KILLS 99%
BACTERIA



NO CHANGE
IN TASTE



NO CHANGE
IN ODOR

AQUASURE



Image: An infographic detailing the effectiveness of UV-C filtration. It visually confirms that the system effectively sterilizes water by neutralizing bacteria, viruses, cysts, fungi, E. coli, algae, coliform, and giardia.

MAXIMIZE YOUR WATER QUALITY

Enjoy pure, clean water with our easy-to-install UV system. Bundle with any Aquasure Whole House system compatible with this UV system for premium water quality.



Image: A diagram illustrating the ultraviolet spectrum and a person enjoying a glass of water. The image highlights that UV-C disinfection is 100% chemical-free, kills 99% of bacteria, and does not alter the taste or odor of the water, making it ideal for residential and commercial use.

5. MAINTENANCE

5.1 Bulb Replacement Schedule

The Aquasure AF-UV12-BULB has an average operational life of 9,000 hours. To ensure optimal system performance and continuous disinfection effectiveness, it is recommended to replace the UV bulb annually, regardless of whether it appears to be working. UV-C output diminishes over time, even if the bulb still glows.

Refer to Section 3, "Installation Guide," for detailed bulb replacement instructions.

5.2 Quartz Sleeve Cleaning

It is advisable to inspect and clean the quartz sleeve during each bulb replacement. Mineral deposits or debris on the sleeve can reduce the effectiveness of the UV light. Clean with a mild acid solution (e.g., white vinegar) and a soft cloth, then rinse thoroughly.

6. TROUBLESHOOTING

If your Aquasure UV system is not functioning as expected after bulb replacement, consider the following:

- **No UV Light Indicator:** Ensure the system is properly plugged into a working electrical outlet. Check if the bulb connector is securely attached to the bulb and the power supply.
- **Water Leakage:** Verify that all caps and connections are tightened properly after installation. Ensure O-rings are correctly seated and not damaged.
- **Reduced Disinfection:** If water quality issues persist, ensure the bulb is replaced annually. Also, check if the quartz sleeve is clean and free of obstructions.
- **Bulb Breakage:** If the bulb breaks during installation, carefully remove all glass fragments using appropriate safety gear (gloves, eye protection) and dispose of them safely. Contact Aquasure for a replacement.

For issues not resolved by these steps, please contact Aquasure customer support.

7. PRODUCT SPECIFICATIONS

Specification	Detail
Model Name	AF-UV12-BULB
Brand	Aquasure
Light Type	UV-C
Wattage	39 Watts
Voltage	120 Volts
Average Life	9,000 Hours
Product Dimensions	0.75 x 0.75 x 33.75 inches
Material	Glass, Plastic
Included Components	Replacement Bulb
Special Feature	Energy Efficient
Indoor/Outdoor Usage	Indoor
UPC	850041187396

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Aquasure AF-UV12-BULB or the compatible UV system, please refer to the documentation provided with your original Aquasure Quantum Series UV Light System or visit the official Aquasure website.

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Aquasure customer support directly. Contact information can typically be found on the Aquasure website or on your product packaging.

Aquasure USA

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