

## AA GKM24W

# AA GKM24W Internal UV Sterilizer Instruction Manual

Model: GKM24W (AAUV24W-B)

## 1. INTRODUCTION

The AA GKM24W Internal UV Sterilizer with Power Head is designed to maintain crystal clear water in aquariums up to 120 gallons. This system utilizes a sealed UV lamp that allows water to flow in direct contact with the UV light, enhancing its efficiency in reducing free-floating algae and harmful microorganisms. This manual provides essential information for the safe and effective installation, operation, and maintenance of your UV sterilizer.

## 2. SAFETY INFORMATION

- **Indoor Use Only:** This product is intended for indoor aquarium use only. Do not use outdoors or in any environment other than an aquarium.
- **Mercury Warning:** The UV lamp contains mercury. Handle with care. In case of lamp breakage, avoid direct contact with skin and eyes. Dispose of the lamp in accordance with all state and local disposal laws and regulations.
- **Electrical Safety:** Ensure hands are dry before handling the power plug or any electrical components. Always unplug the unit from the power outlet before performing any maintenance or installation.
- **Water Contact:** The UV lamp and pump are designed to be fully submersed in water. Ensure all electrical connections outside the aquarium remain dry.
- **Children and Pets:** Keep out of reach of children and pets to prevent accidental damage or injury.

## 3. PACKAGE CONTENTS

Verify that all components are present in the package:

- GKM24W Internal UV Sterilizer Unit with Power Head
- Sealed UV Bulb (pre-installed)
- Control Box
- Power Adapter
- Suction Cups for mounting

- Bonus Sponge (pre-installed)



Image 3.1: AA GKM24W Internal UV Sterilizer product box.





Image 3.2: The main GKM24W unit, showing the sealed UV lamp housing and power head.

## 4. SETUP AND INSTALLATION

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Installation of the GKM24W is designed to be quick and tool-free, typically taking around 5 minutes.

1. **Placement:** Select a suitable location inside your aquarium where the unit can be fully submersed and water flow is optimal. The unit is designed to be placed vertically or horizontally.
2. **Mounting:** Attach the unit to the inside of the aquarium glass using the provided suction cups. Ensure the suction cups are firmly pressed against a clean surface to secure the unit.
3. **Cable Management:** Route the power cable from the unit out of the aquarium, ensuring a drip loop is formed to prevent water from traveling along the cord to the electrical outlet.
4. **Connect Control Box:** Connect the unit's cable to the control box.
5. **Power Connection:** Plug the power adapter into a standard UL-listed electrical outlet.

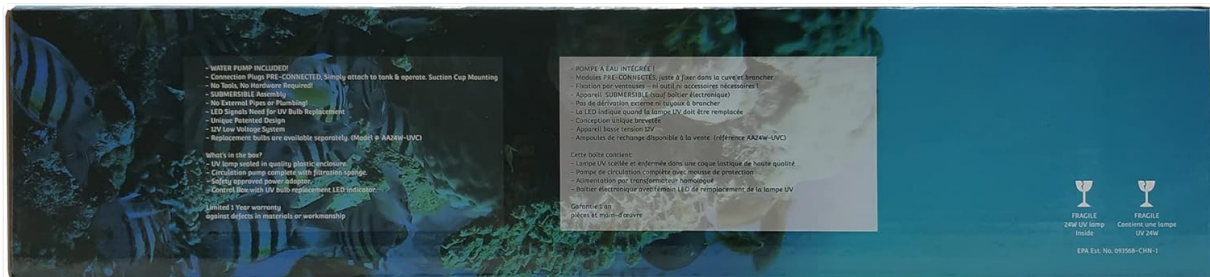


Image 4.1: The GKM24W unit installed vertically inside an aquarium, secured by suction cups.



Image 4.2: The control box, typically mounted outside the aquarium, featuring an LED indicator.

## 5. OPERATING INSTRUCTIONS

Once installed and plugged in, the GKM24W will begin operating. The internal power head circulates aquarium water directly past the UV lamp, sterilizing it.

- **Initial Operation:** Allow the unit to run continuously until the desired water clarity is achieved. This may take several days depending on the severity of the water condition.
- **Optimizing Lamp Life:** Once your aquarium water is consistently clear, it is not necessary to operate the GKM24W 24/7. Running the unit for several hours a day (e.g., 8-12 hours) can help extend the life of the UV lamp while maintaining water clarity.
- **LED Indicator:** The control box features an LED light. A green light indicates normal operation. If the LED light is off, it may signal that the UV bulb needs replacement.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your GKM24W UV sterilizer.

- **UV Bulb Replacement:** The UV bulb typically lasts for 6 to 9 months with constant use. The sealed UV bulb design means the entire sealed unit containing the bulb is replaced, ensuring a fresh, efficient UV housing with every bulb change. Replacement is tool-free.
- **Cleaning:** Periodically clean the exterior of the unit and the power head intake to prevent debris buildup, which can reduce water flow and efficiency. Always unplug the unit before cleaning.
- **Sponge Maintenance:** The bonus sponge included with the unit can be rinsed or replaced as needed to maintain mechanical filtration.

## 7. TROUBLESHOOTING

If you encounter issues with your GKM24W, refer to the following common solutions:

- **Unit Not Turning On / No LED Light:**

- Check if the power adapter is securely plugged into a working electrical outlet.
  - Ensure all cable connections between the unit, control box, and adapter are firm.
  - If the LED indicator on the control box is off, the UV bulb may have reached the end of its life and requires replacement.
- **Water Not Clearing / Reduced Efficiency:**
    - Verify that the unit is fully submersed and positioned correctly for optimal water flow.
    - Clean any debris from the power head intake and the exterior of the UV unit.
    - Check the age of the UV bulb. If it has been in use for 6-9 months or longer, its effectiveness may have diminished, and it should be replaced.
    - Ensure the aquarium size does not exceed the recommended 120-gallon capacity for this model.
  - **Excessive Noise:**
    - Ensure the unit is securely mounted and not vibrating against the aquarium glass or other objects.
    - Check the power head for any obstructions or debris that might be causing noise.

## 8. SPECIFICATIONS

<b>Model Name</b>	GKM24W
<b>Item Model Number</b>	AAUV24W-B
<b>Brand</b>	AA
<b>Aquarium Capacity</b>	Up to 120 Gallons (450L)
<b>UV Lamp Wattage</b>	24 Watts
<b>Pump Flow Rate</b>	120 GPH
<b>Product Dimensions (LxWxH)</b>	4 x 4 x 17 inches
<b>Item Weight</b>	2.64 pounds (1.2 Kilograms)
<b>Safety Certification</b>	UL Listed (for US market)
<b>EPA Establishment Number</b>	093568
<b>Included Components</b>	Water pump, Sealed UV bulb, Control Box, Adaptor

## 9. WARRANTY AND SUPPORT

The AA GKM24W Internal UV Sterilizer comes with a **1-year limited warranty**. This warranty covers manufacturing defects but excludes wear and tear parts such as the UV bulb and sponge.

For warranty claims, technical assistance, or to purchase replacement parts, please contact AA Aquarium customer support. Refer to the product packaging or the manufacturer's official website for current contact information.

**Online Resources:** For additional information and resources, you may visit the official product website: [gkm.aa-aquarium.com](http://gkm.aa-aquarium.com)

