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› Technical Precision Replacement for Aqua FLO GEN H5-40 UV Lamp User Manual

Technical Precision GEN H5-40

Technical Precision Replacement for Aqua FLO GEN H5-40 UV Lamp User Manual

Model: GEN H5-40

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Technical Precision Replacement for Aqua FLO GEN H5-40 UV lamp. This product is designed as a direct replacement for the specified Aqua FLO model, providing germicidal and purification capabilities through ultraviolet light.

2. SAFETY INFORMATION

WARNING: Ultraviolet (UV) Radiation Hazard.

- Never look directly at an illuminated UV lamp. Exposure to UV light can cause severe eye and skin damage.
- Always disconnect power to the UV system before installing, removing, or servicing the lamp.
- Handle the lamp by its ceramic ends or base to avoid touching the glass, as oils from skin can create hot spots and reduce lamp life.
- Dispose of used lamps according to local regulations, as they may contain mercury.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Technical Precision GEN H5-40 is a germicidal ultraviolet (UVA, UVB, UVC) lamp designed for purification applications. It features a 4-pin G10Q-4 base for secure connection within compatible systems. This lamp is intended for use in systems such as air conditioners and furnaces to aid in air purification.



Image: Technical Precision GEN H5-40 UV replacement lamp. This image illustrates the general appearance of the tubular UV lamp with its 4-pin base, designed for germicidal and purification applications.

4. INSTALLATION / SETUP

- 1. Power Disconnection:** Before beginning installation, ensure the power supply to the UV system is completely disconnected at the circuit breaker or main switch. Verify that the system is de-energized.
- 2. Access the UV Chamber:** Follow the instructions provided by your specific Aqua FLO system manufacturer to safely access the UV lamp chamber. This may involve opening access panels or removing covers.
- 3. Remove Old Lamp:** Carefully remove the old UV lamp from its socket. Grasp the lamp by its ceramic base, twist gently if necessary, and pull straight out. Avoid bending or forcing the lamp.
- 4. Install New Lamp:** Holding the new Technical Precision GEN H5-40 lamp by its ceramic base, align the 4 pins with the corresponding slots in the lamp socket. Gently push the lamp straight into the socket until it is fully seated. Do not force it.
- 5. Secure and Close:** Ensure the lamp is securely in place. Reassemble any covers or access panels removed during the process, ensuring all components are properly sealed.
- 6. Restore Power:** Once installation is complete and all safety measures are observed, restore power to the UV system. The lamp should illuminate immediately.

Note: Refer to your specific Aqua FLO system's manual for detailed instructions on accessing and replacing the UV lamp, as procedures may vary.

5. OPERATION

The Technical Precision GEN H5-40 UV lamp operates as an integral component of your existing air purification system (e.g., air conditioner, furnace). Once properly installed and power is restored, the lamp will turn on instantly and continuously emit germicidal UV light when the system is active. Its operation is typically controlled by the main system's power supply and control unit.

- **Instant On:** The lamp is designed for instant illumination upon receiving power.
- **Continuous Operation:** For optimal purification, the lamp should operate continuously when the associated air handling unit is running.
- **Control Method:** The lamp's on/off state is managed by the system it is installed in, often via a push button or app control if the main system supports it.

6. MAINTENANCE

To ensure continued effectiveness of your UV purification system, regular maintenance of the UV lamp is recommended.

- **Lamp Replacement:** UV lamps have a finite effective lifespan. While they may continue to glow, their germicidal effectiveness diminishes over time. It is recommended to replace the lamp annually or as specified by your system manufacturer to maintain optimal purification performance.
- **Cleaning:** If the quartz sleeve (if applicable to your system) or the lamp itself appears dirty, carefully clean it with a soft, lint-free cloth and isopropyl alcohol after disconnecting power and allowing the lamp to cool. Do not use abrasive cleaners.
- **Inspection:** Periodically inspect the lamp and its connections for any signs of damage or wear.

7. TROUBLESHOOTING

If the UV lamp is not functioning, consider the following troubleshooting steps:

- **No Illumination:**
 - Ensure the power supply to the UV system is connected and active.
 - Check if the lamp is properly seated in its socket. Disconnect power, remove, and reinsert the lamp firmly.
 - Verify that the system's control unit (ballast) is receiving power and functioning correctly. A faulty ballast can prevent the lamp from lighting.
 - If the lamp is old, its lifespan may have ended. Replace with a new lamp.
- **Reduced Effectiveness:**
 - Even if glowing, the lamp's germicidal output decreases over time. Replace the lamp if it has exceeded its recommended operational life.
 - Ensure the lamp and any protective sleeve are clean and free from dust or debris that could block UV light.

If issues persist after following these steps, consult a qualified technician or contact Technical Precision customer support.

8. SPECIFICATIONS

Feature	Detail
Model Name	GEN H5-40
Brand	Technical Precision
Lamp Type	Germicidal/Purification (UVA, UVB, UVC) Ultraviolet
Base Type	4 Pin Base G10Q-4
Wattage	101 watts
Special Feature	High Efficiency, Instant On
Specific Uses	Air Conditioner, Furnace
Light Color	Multiple (refers to UV spectrum, not visible light)
Connectivity Technology	Normal bulb
Power Source	AC
Unit Count	1.0 Count
Included Components	Replacement Part (UV Lamp)

Feature	Detail
Shape	Tubular (T)

9. WARRANTY AND SUPPORT

This Technical Precision product comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or product support, please contact Technical Precision directly through their official website or customer service channels. Please have your purchase information and product model number (GEN H5-40) available when contacting support.

