

LSE Lighting LSE-400434UV254

LSE Lighting 400434 UVC Lamp Instruction Manual

Model: LSE-400434UV254

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your LSE Lighting 400434 UVC Lamp. This UV replacement lamp is designed for compatibility with UV Dynamics UVD180 and UVD245 models, primarily for air and water sterilization applications. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: Ultraviolet (UV) light can cause severe damage to eyes and skin. Never look directly at the lamp when it is operating. Always wear appropriate protective gear, including UV-blocking eyewear and skin protection, when handling or working near an active UV lamp.

- Disconnect power before installing, removing, or servicing the lamp.
- Do not touch the quartz glass of the lamp with bare hands. Oils from your skin can create hot spots and reduce lamp life. Use clean gloves or a soft cloth.
- Ensure the lamp is installed in a compatible and enclosed UV system to prevent accidental exposure.
- Dispose of old lamps according to local regulations for hazardous waste, as they contain mercury.

3. PRODUCT OVERVIEW

The LSE Lighting 400434 UVC Lamp is a high-quality UV bulb engineered for effective sterilization. It is a compatible replacement for UV Dynamics UVD180 and UVD245 systems, ensuring consistent performance for your water or air purification needs.

Key Features:

- **Brand:** LSE Lighting - EPA Est. No. 96823-PA-1
- **Bulb Type:** UV
- **Base Type:** 4pin (4pins on ONE END)
- **Length:** Approximately 13 inches

- 100% compatible with UV Dynamics models UVD180 UVD245.



The LSE Lighting UVC Lamp, showing its 4-pin base and EPA registration number.



The UVC lamp is effectively used in various water purification applications.



Before

Used for AIR Applications

The UVC lamp is also suitable for air purification systems, improving air quality.

Company Introduction:

Your browser does not support the video tag.

An official video from LSE Lighting providing an introduction to the company and its commitment to UV light technology.

4. SETUP AND INSTALLATION

Before beginning installation, ensure you have all necessary tools and that the UV system is powered off and disconnected from the main power supply.

Pre-Installation Checklist:

- New LSE Lighting 400434 UVC Lamp
- Clean gloves (cotton or latex)
- Safety glasses/UV-blocking eyewear
- Screwdriver (if required for system access)

- Soft, lint-free cloth (for quartz sleeve cleaning, if applicable)

Installation Steps:

1. **Power Disconnection:** Turn off and unplug the UV Dynamics system from the power source. Allow the system to cool down if it was recently in operation.
2. **Access the Lamp:** Refer to your UV Dynamics UVD180 or UVD245 system manual for specific instructions on how to safely access the UV lamp compartment. This usually involves removing a protective cover or cap.
3. **Remove Old Lamp:** Carefully grasp the ceramic base of the old lamp (wearing gloves) and gently pull it straight out from the lamp socket. Avoid twisting or bending.
4. **Inspect Quartz Sleeve (if applicable):** If your system uses a quartz sleeve, inspect it for cracks, cloudiness, or mineral deposits. Clean the sleeve with a soft cloth and a mild acid solution (like vinegar) if necessary, then rinse thoroughly with water and dry completely.
5. **Install New Lamp:** Wearing clean gloves, carefully insert the 4-pin base of the new LSE Lighting UVC lamp into the lamp socket. Ensure the pins align correctly and push firmly until the lamp is fully seated. Do not force it.
6. **Secure and Reassemble:** Replace any protective covers or caps that were removed. Ensure all connections are secure.
7. **Power On:** Plug the UV Dynamics system back into the power source and turn it on. Verify that the lamp illuminates and the system is operating correctly.

5. OPERATION

Once installed, the LSE Lighting UVC lamp operates automatically within your UV Dynamics system. The lamp should illuminate immediately upon power-up. Most UV systems have an indicator light or alarm to confirm lamp operation or signal a lamp failure. Refer to your specific UV Dynamics UVD180 or UVD245 system manual for details on its operational indicators.

6. MAINTENANCE

Regular maintenance ensures the longevity and effectiveness of your UV sterilization system.

Lamp Replacement:

UVC lamps have a finite effective lifespan. While the lamp may still glow after its rated life, its UV output diminishes over time, reducing its sterilization effectiveness. It is recommended to replace your LSE Lighting 400434 UVC lamp annually or as recommended by your UV Dynamics system manufacturer, typically after approximately 9,000 hours of continuous operation.

Quartz Sleeve Cleaning (if applicable):

If your system includes a quartz sleeve, it should be cleaned periodically (e.g., every 6-12 months) to remove any mineral deposits or film that can block UV light transmission. Always follow the safety precautions outlined in Section 2 when performing maintenance.

7. TROUBLESHOOTING

If your UV system is not functioning as expected, consult the following table for common issues and solutions. Always ensure power is disconnected before performing any inspection or maintenance.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lamp not illuminating	No power to unit	Check power connection, circuit breaker, and wall outlet.
Lamp not illuminating	Lamp not properly seated	Disconnect power, remove and re-insert lamp firmly into socket.
Lamp not illuminating	Defective lamp	Replace the lamp with a new LSE Lighting 400434 UVC Lamp.
Lamp not illuminating	Defective ballast	Contact a qualified technician or the UV Dynamics manufacturer for ballast replacement.
Reduced sterilization effectiveness	Lamp past effective life	Replace the lamp.
Reduced sterilization effectiveness	Dirty quartz sleeve	Clean the quartz sleeve as per maintenance instructions.

8. SPECIFICATIONS

Attribute	Value
Brand	LSE Lighting
Model Number	LSE-400434UV254
Bulb Type	UV
Base Type	4pin (4pins on ONE END)
Length	approx 13 inches
Wattage	100 watts
Light Color	Purple
Manufacturer	Light Spectrum Enterprises, Inc
Package Dimensions	19.5 x 2 x 1.5 inches
Item Weight	5.61 ounces

9. WARRANTY AND SUPPORT

For information regarding the warranty of your LSE Lighting 400434 UVC Lamp, please refer to the packaging or contact LSE Lighting directly. Warranty terms typically cover manufacturing defects for a specified period. For technical support or further inquiries, please visit the official LSE Lighting store on Amazon or contact their customer service. [Visit the LSE Lighting Store](#)

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