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› LSE Lighting LC210 UV Lamp Instruction Manual

LSE Lighting LSE-LC210

LSE Lighting LC210 UV Lamp Instruction Manual

Model: LSE-LC210 | Brand: LSE Lighting

1. PRODUCT OVERVIEW

The LSE Lighting LC210 UV Lamp is a 12-inch, 14W ozone-free ultraviolet bulb designed as a 100% compatible replacement for ELGA LabWater LC210 Systems. This high-performance, 4-pin single-ended bulb delivers powerful 254nm UV-C output for effective water purification and sterilization. Manufactured in an EPA Registered Establishment (No. 96823-PA-1) and designed in the USA, it offers a long life cycle of up to 10,000 hours, ensuring reliable and lasting protection for your system.



Figure 1: LSE Lighting LC210 UV Lamp, showing the 4-pin base and EPA Est. No. 96823-PA-1.

Key Features:

- **100% Compatible Replacement:** Engineered to replace LC210 UV bulbs in water systems.

- **Powerful UV-C Output:** Delivers 254nm ultraviolet light for effective optimal water quality.
- **Ozone-Free Type L Design:** 12-inch bulb, 14W, with a 4-pin single ended (B16) base, preheat wiring, and 425mA standard operating current.
- **Long Life Cycle:** Rated for up to 10,000 hours of use, reducing maintenance frequency.
- **Quality Assurance:** Manufactured in an EPA Registered Establishment (No. 96823-PA-1) and designed in the USA.

2. SAFETY INFORMATION

WARNING: Ultraviolet (UV) light can cause severe damage to eyes and skin. Always wear appropriate personal protective equipment (PPE), including UV-protective eyewear and gloves, when handling or working near an energized UV lamp. Never look directly at an illuminated UV lamp. Ensure the power supply is disconnected before installation, removal, or maintenance.



Figure 2: Product packaging showing important safety warnings regarding UV light exposure.

- Read and understand all instructions before installation and operation.
- Keep out of reach of children.
- Dispose of lamps according to local regulations for hazardous waste.
- This bulb is intended for use with compatible devices and systems only. Install according to the instruction manual that came with your OEM device.

3. SETUP AND INSTALLATION

This UV lamp is designed for specific ELGA LabWater LC210 Systems. Refer to your system's original instruction manual for detailed installation procedures. The following are general guidelines:

1. **Power Disconnection:** Ensure the power to the UV system is completely disconnected and locked out before beginning any installation or maintenance.
2. **Cool Down:** Allow the existing lamp (if any) to cool down completely before handling.
3. **Remove Old Lamp:** Carefully remove the old UV lamp from its socket. Avoid touching the glass part of the lamp with bare hands. Use clean gloves or a soft cloth.
4. **Insert New Lamp:** Gently insert the new LSE Lighting LC210 UV Lamp into the designated socket. Ensure the 4-pin base aligns correctly. Do not force the lamp into place.
5. **Secure Lamp:** Confirm the lamp is securely seated in its fixture.
6. **Reconnect Power:** Once the lamp is properly installed and all covers are secured, reconnect the power supply to the UV system.
7. **Functionality Check:** Verify that the UV lamp is operating correctly according to your system's indicators.



Figure 3: Detail of the 4-pin single-ended base, crucial for correct installation.

4. OPERATING INSTRUCTIONS

The LSE Lighting LC210 UV Lamp operates automatically once installed in a compatible system and power is supplied. Its primary function is to emit UV-C light at 254nm wavelength for sterilization purposes.

- **Continuous Operation:** For optimal sterilization, the UV lamp should operate continuously as per the system's design.
- **System Indicators:** Monitor your ELGA LabWater LC210 System's control panel for indicators of lamp operation or failure.
- **UV-C Effectiveness:** The 254nm wavelength is highly effective for inactivating microorganisms in water.

Applications:

This UV lamp is primarily used in water purification systems but UV technology has broad applications:



Figure 4: Illustrates the use of UV lamps in water treatment systems for purification.



Figure 5: Illustrates the use of UV lamps in air handling systems for air purification.

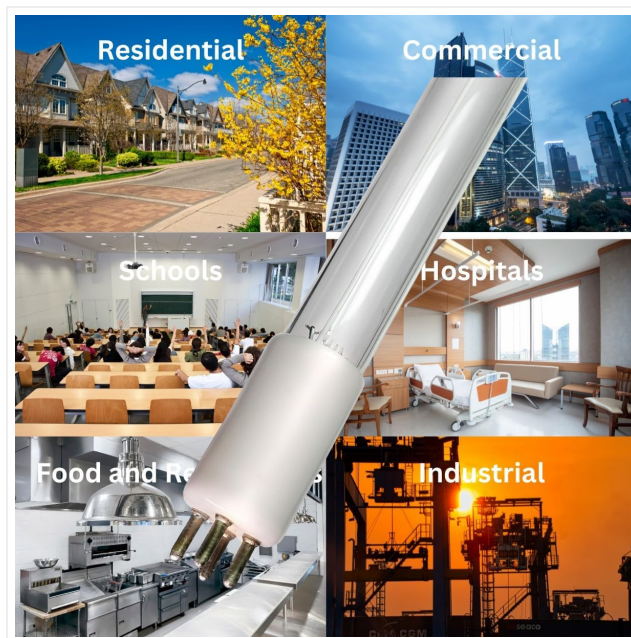


Figure 6: Examples of diverse environments where UV lamps are utilized for sterilization.

5. MAINTENANCE

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

- **Lamp Replacement:** The LSE Lighting LC210 UV Lamp has a rated life of up to 10,000 hours. It is recommended to replace the lamp annually or as indicated by your system's manufacturer, even if it appears to be working, as UV output diminishes over time.
- **Cleaning:** Periodically inspect the quartz sleeve (if applicable to your system) that houses the UV lamp. Clean it with a soft cloth and a mild cleaning solution to remove any mineral deposits or film that could reduce UV light transmission. Always ensure the system is powered off and cooled before cleaning.
- **Record Keeping:** Keep a record of lamp installation and replacement dates to track its operational life.

6. TROUBLESHOOTING

If your UV system is not functioning as expected, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lamp not illuminating	No power to system, faulty lamp, faulty ballast, incorrect installation.	Check power connection. Re-seat lamp. Test with a new lamp. Consult system manual for ballast troubleshooting.
Reduced water quality (despite UV)	Lamp nearing end of life, dirty quartz sleeve, incorrect flow rate.	Replace lamp. Clean quartz sleeve. Verify system flow rate is within specifications.
System alarm/error code	Specific system issue.	Refer to your ELGA LabWater LC210 System's manual for specific error code interpretations and solutions.

If issues persist after following these steps, contact LSE Lighting customer support or a qualified technician.

7. SPECIFICATIONS

Attribute	Value
Brand	LSE Lighting
Model Name	LSE-LC210
Wattage	14 Watts
Special Feature	Compatible with ELGA LabWater LC210 Systems
Unit Count	1.0 Count
Shape	Tubular(T)
Material	Glass
Light Source Type	Ultraviolet (UV-C 254nm)
Life Cycle	Up to 10,000 hours
Product Dimensions	12 x 0.5 x 0.5 inches
Item Weight	3.17 ounces
UPC	843324134040
EPA Est. No.	96823-PA-1

8. COMPANY INFORMATION AND SUPPORT

LSE Lighting is a global leader in UV technology, with over two decades of expertise in manufacturing high-performance UV solutions. We are committed to quality and customer satisfaction.

Your browser does not support the video tag.

Video 1: "LSE LIGHTING Brand - company Introduction" - Learn more about LSE Lighting's commitment to innovation and quality in UV technology.

Warranty and Support:

LSE Lighting products are designed for durability and performance. For specific warranty details, please refer to the documentation provided with your purchase or visit the official LSE Lighting website. For technical support or inquiries, please contact our customer service team.

- **Manufacturer:** Light Spectrum Enterprises, Inc
- **Online Store:** [Visit the LSE Lighting Store on Amazon](#)
- **EPA Registered Establishment:** No. 96823-PA-1

