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Philips 210641

Philips 210641 PL-L TUV Germicidal Light Bulb User Manual

Model: 210641

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Philips 210641 18-watt PL-L TUV Germicidal Light Bulb. This compact UVC lamp is designed for disinfection purposes in residential water and air treatment units.

The Philips TUV PL-L lamp utilizes short-wave UV radiation (UVC) with a peak at 253.7 nm to deactivate bacteria, viruses, and other microorganisms. Its protective internal coating ensures consistent UV output throughout its operational lifetime, contributing to effective disinfection and system efficiency. The single-ended lamp base facilitates straightforward replacement.

2. IMPORTANT SAFETY INFORMATION

WARNING: UVC RADIATION HAZARD.

- **Avoid direct exposure:** Direct exposure to UVC radiation can cause severe skin burns and eye damage. Never look directly at an operating UVC lamp.
- **Protective measures:** Ensure the lamp is installed within an enclosed system designed to prevent UVC leakage. If direct observation is necessary, use appropriate UVC-protective eyewear and clothing.
- **Installation:** Installation should only be performed by qualified personnel following all local electrical codes and safety regulations.
- **Disposal:** This lamp contains mercury. Dispose of in accordance with local environmental regulations. Do not break the lamp.
- **Children and pets:** Keep out of reach of children and pets. Ensure the device housing the lamp is securely closed and inaccessible during operation.
- **Lamp glass:** The lamp glass filters out 185 nm ozone-forming radiation. Do not use lamps with damaged

glass.

- **Warning sign:** The lamp itself carries a warning sign indicating UVC radiation. Heed all warnings.

3. PRODUCT FEATURES

- Designed for residential drinking water, water and air treatment units, and stand-alone purifiers.
- Emits short-wave UV radiation with a peak at 253.7 nm (UVC) for effective disinfection.
- Lamp glass filters out 185 nm ozone-forming radiation.
- Features a warning sign on the lamp indicating UVC radiation.
- Equipped with a 2G11, 4-pin base for easy installation.

4. SETUP AND INSTALLATION

The Philips 210641 germicidal lamp is designed for integration into compatible UVC disinfection systems. Always refer to the specific instructions provided with your UVC unit for detailed installation procedures.

4.1. General Installation Guidelines

1. **Power Disconnection:** Before attempting any installation or replacement, ensure the power supply to the UVC unit is completely disconnected.
2. **Handling the Lamp:** Handle the lamp by its ceramic base or ends. Avoid touching the glass portion directly with bare hands, as oils from the skin can create hot spots and reduce lamp life. If touched, clean with a lint-free cloth and rubbing alcohol.
3. **Base Type:** This lamp features a 2G11, 4-pin base. Ensure your UVC unit's socket is compatible with this base type.
4. **Insertion:** Carefully align the 4 pins of the lamp base with the corresponding slots in the lamp holder. Gently push the lamp into the socket until it is firmly seated. Do not force the lamp.
5. **Secure Housing:** After installation, ensure that the UVC unit's housing is securely closed and sealed to prevent any UVC radiation leakage.
6. **Power Reconnection:** Once the lamp is securely installed and the unit is closed, reconnect the power supply.



Image 1: Philips 210641 PL-L TUV Germicidal Light Bulb. This image shows the full length of the germicidal lamp, highlighting its twin-tube design and the 4-pin base at one end.



Image 2: Close-up view of the 4-pin base of the Philips 210641 PL-L TUV Germicidal Light Bulb. This image details the electrical pins and the lamp's identification markings.

5. OPERATION

The Philips 210641 lamp operates by emitting UVC radiation to disinfect water or air as it passes through the UVC unit. Once installed and powered, the lamp will illuminate, and the UVC unit will begin its disinfection process.

- **Automatic Operation:** In most residential UVC systems, the lamp operates automatically when the system is active (e.g., water flowing, air circulating).
- **Indicator Lights:** Many UVC units include indicator lights to confirm lamp operation or signal when a lamp replacement is due. Consult your UVC unit's manual for specific indicator meanings.
- **No Visible Light:** While the lamp emits UVC radiation, the visible light output is minimal. Do not rely on visible light as an indicator of proper UVC output.

6. MAINTENANCE

Regular maintenance ensures the continued effectiveness of your UVC disinfection system.

6.1. Lamp Replacement

- **Lifespan:** The Philips 210641 lamp has a rated average operating life of 9000 hours. For optimal disinfection performance, it is recommended to replace the lamp annually, even if it still appears to be functioning. UVC output diminishes over time, even if the lamp is still glowing.
- **Replacement Procedure:**

- a. Disconnect power to the UVC unit.
- b. Allow the lamp to cool down if it has been recently operating.
- c. Carefully remove the old lamp by gently pulling it straight out from the socket.
- d. Dispose of the old lamp responsibly according to local regulations for mercury-containing products.
- e. Install the new Philips 210641 lamp following the "Setup and Installation" guidelines.
- f. Reconnect power and verify operation.

6.2. Cleaning

- **Quartz Sleeve (if applicable):** If your UVC unit uses a quartz sleeve around the lamp, it may require periodic cleaning to remove mineral deposits or debris that can block UVC transmission. Refer to your UVC unit's manual for cleaning instructions. Always disconnect power before cleaning.
- **Lamp Glass:** If the lamp glass itself becomes dirty (e.g., from accidental touching), clean it with a lint-free cloth moistened with rubbing alcohol. Ensure the lamp is completely dry before reinstallation or operation.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Philips 210641 germicidal lamp.

Problem	Possible Cause	Solution
Lamp does not light up.	No power to the unit. Lamp not properly seated. Lamp has reached end of life. Faulty ballast or UVC unit.	Check power connection and circuit breaker. Ensure lamp is fully inserted into the socket. Replace the lamp. Consult your UVC unit's manual or a qualified technician.
Reduced disinfection effectiveness.	Lamp UVC output has diminished. Dirty quartz sleeve (if applicable). Incorrect lamp type.	Replace the lamp (recommended annually). Clean the quartz sleeve according to your UVC unit's manual. Ensure you are using the correct Philips 210641 replacement lamp.
Lamp flickers.	Lamp nearing end of life. Loose connection. Faulty ballast.	Replace the lamp. Check lamp seating in the socket. Consult your UVC unit's manual or a qualified technician.

If troubleshooting steps do not resolve the issue, contact a qualified technician or the manufacturer of your UVC disinfection unit.

8. SPECIFICATIONS

Attribute	Value
Brand:	Philips

Attribute	Value
Model Number:	210641
Light Type:	CFL (Germicidal UVC)
Wattage:	18 watts
Bulb Base:	2G11, 4-pin Base
Bulb Shape Size:	T (Tubular)
Voltage:	60 Volts
Light Source Operating Life:	9000 Hours
Material Type:	Glass
Item Weight:	0.13 Pounds
Item Dimensions (W x H):	1.5"W x 1.5"H (Note: These dimensions typically refer to packaging or a compact form factor, not the full length of a PL-L bulb.)
Specific Uses For Product:	Lamp (for disinfection)
Specification Met:	TUV
Indoor Outdoor Usage:	Indoor

9. WARRANTY AND SUPPORT

Information regarding specific warranty terms for the Philips 210641 PL-L TUV Germicidal Light Bulb is not provided within this manual. For warranty details, please refer to the packaging of your product or contact Philips customer support directly.

For technical support or inquiries, please visit the official Philips website or consult the documentation provided with your UVC disinfection system, as the lamp is an integral component of a larger system.

Philips Official Website: www.philips.com