



Billi Luxgarde UVC Inline Module User Guide

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Billi®

Billi Luxgarde UVC Inline Module



Product Information

The Billi Luxgarde™ UVC Inline Module is a certified water purification device that utilizes UV-C radiation to treat water. It is designed to ensure the safety and quality of the water you consume. The appliance must be installed, operated, and maintained according to the manufacturer's instructions for continued safety.

Warnings & Important Information

- **Installation:** The appliance should be installed by a qualified tradesperson.
- **Correct Operation:** It is essential to follow the instructions provided in the user manual for correct operation.
- **Water Safety:** Do not use the appliance with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- **Systems certified for cyst reduction** may be used on disinfected water that may contain filterable cysts.
- **User Limitations:** The appliance is not intended for use by Individuals with reduced physical, sensory, or mental capability unless they have received proper supervision or instruction.
- **Supervision for Children:** Children should be supervised to prevent them from playing with the appliance.
- **Supply Cord Safety:** If the supply cord is damaged, it should be replaced by the manufacturer, its service agent, or a qualified person to avoid hazards.
- **Handling and Operation:** The Luxgarde UVC module contains sensitive microelectronic components.
- It should be handled with care during shipping, handling, installation, and operation. Static electricity and surge voltages can damage internal components and lead to product failure.
- **Product Damage:** Dropping the product from a height of over 30 cm can cause permanent damage.
- **Water Filling:** The Luxgarde UVC must be filled with water during LED ON operation. Operating the system without water flow or for extended periods may cause permanent damage.
- **Hot Water Warning:** If operating the system for extended periods without water flow, the water in the chamber can become hot and potentially lead to scalding.
- It is recommended to run water until hot water has been purged from the system. Avoid contact with water during this time.
- **Power Interruptions:** After connecting input power or experiencing power interruptions, wait at least 5 seconds before passing water through the UV system to avoid passing under-treated water that may pose health hazards.
- **Minimum Flow Rate:** Do not operate the Luxgarde UVC at flow rates below 0.5 Litres Per Minute, as it may cause improper operation.
- **UV-C Radiation:** The appliance contains a non-replaceable UV-C emitter.
- Unintended use or damage to the housing may result in the escape of dangerous UV-C radiation, which can harm the eyes and skin.
- **Damage:** Do not operate visibly damaged appliances.
- **Power Supply:** Models with AC/DC power supplies should be connected through a residual current device (RCD) with a rated capacity appropriate for the appliance.

Product Usage Instructions

1. Ensure that the appliance is installed by a qualified tradesperson according to the manufacturer's instructions.
2. Before using the appliance, read the user manual thoroughly and familiarize yourself with all safety precautions and warnings.
3. Do not use the appliance with water that is microbiologically unsafe or of unknown quality without proper

disinfection before or after the system.

4. Supervise children to prevent them from playing with the appliance.
5. In case of supply cord damage, contact the manufacturer, its service agent, or qualified persons for replacement.
6. Handle the Luxgarde UVC module with care during shipping, handling, installation, and operation to avoid damage to sensitive microelectronic components.
7. Avoid dropping the product from a height greater than 30 cm to prevent permanent damage.
8. Ensure that the Luxgarde UVC is filled with water during LED ON operation. Avoid operating the system without water flow or for extended periods to prevent permanent damage.
9. If operating the system for extended periods without water flow, run the water until hot water has been purged from the system to avoid potential scalding.
10. Do not come into contact with water during this time.
11. After connecting input power or experiencing power interruptions, wait at least 5 seconds before passing water through the UV system to ensure proper treatment.
12. Operate the Luxgarde UVC at a flow rate of at least 0.5 Litres Per Minute to maintain proper functionality.
13. Be cautious of UV-C radiation emitted by the appliance. Avoid unintended use and damage to the housing to prevent the escape of dangerous radiation that can harm the eyes and skin.
14. Do not operate visibly damaged appliances. Contact the manufacturer for assistance.
15. For models with AC/DC power supplies, connect them through a residual current device (RCD) with a suitable capacity.

Product Introduction

The LUXAGARDE™ UVC Module is a UVC LED-based water disinfection product that delivers reliable drinking water for consumers. This product offers mercury-free, environmentally friendly disinfection that does not alter the taste or smell of drinking water. This system is intended for use by professional installers of drinking water dispensing systems. The LUXAGARDE™ UVC Module has no serviceable parts. The LUXAGARDE™ UVC Module should not be modified or disassembled in any way. Doing so may result in damage, hazardous operation conditions, and Ultraviolet (UV) light exposure hazards.

Warnings & Important Information

- For the continued safety of this appliance, it must be installed, operated, and maintained in accordance with the manufacturer's instructions.
- Your appliance should be installed by a suitably qualified tradesperson.
- For the correct operation of this appliance, it is essential to observe the instructions as outlined in this booklet.
- Do not use this appliance with water that is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.
- Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- This appliance is not intended for use by persons (Including children) with reduced physical, sensory, or mental capability, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid the creation of a hazard.

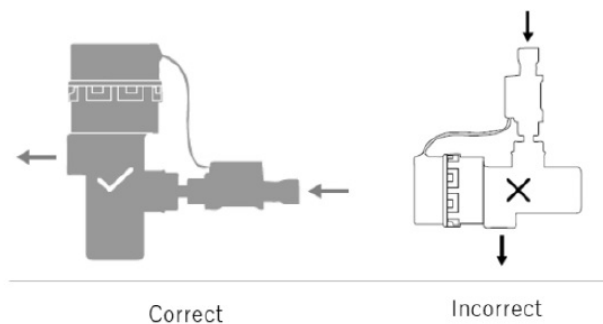
- The LUXGARDE UVC contains microelectronic components sensitive to shock, moisture, and operation in conditions beyond stated maximums.
- Care should be taken in handling the LUXGARDE UVC Module during shipping, handling, installation, and operation. The LUXGARDE UVC is ESD (electrostatic discharge) sensitive; static electricity and surge voltages seriously damage internal components and can result in product failure.
- Dropping the product may cause damage. Drops from over 30 cm will cause permanent damage.
- The LUXGARDE UVC must be filled with water during LED ON operation. The LUXGARDE UVC system should not be operated for a period greater than 1 minute if the water supply is not flowing through the reactor.
- Operating the LUXGARDE UVC dry or for extended periods without water flow may cause permanent damage.
- If operating the LUXGARDE UVC module for extended periods of no water flow, the water in your chamber can become hot and potentially lead to scalding. It is recommended to run water until hot water has been purged from the system. Do not allow water to contact your body during this time.
- After connecting input power (including after power interruptions), wait a minimum of 5 seconds before passing water through the UV system to avoid passing under-treated water that may, in rare instances, pose health hazards.
- Do not operate the LUXGARDE UVC at flow rates below 0.5 Litres Per Minute, doing so may cause the unit to operate improperly.
- This appliance contains a UV-C emitter.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin. Appliances that are obviously damaged must not be operated.
- Non-replaceable UV-C emitter is present in the appliance.
- Models with AC/DC power supplies are to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.
- This system is not intended to be submerged or used outdoors.
- This appliance is to be used in line with a Billi Unit.
- WARNING: Do not operate the UV-C emitter when it is removed from the appliance enclosure.

LUXGARDE™ UVC Unit Characteristics

- MAJOR DIMENSION: 145 x 130 x 80 mm
- WEIGHT: 80g
- ELECTRICAL INPUT: 24V DC 15W MAX
- PRESSURE DROP 0.145PSI (4kPA)
- TOTAL INTERNAL WATER VOLUME: 38 cm³
- MAX PRESSURE: 100PSI (0.7MPa)
- MAX WATER TEMPERATURE: 40°C
- MIN WATER TEMPERATURE: 5°C
- PH RANGE: 6.0-8.5

Installation precaution

The LUXGARDE™ UVC module must be oriented in one position to operate as intended. Mounting the unit in a different orientation shown below will result in reduced performance and permanent damage to the unit.



Operation

When connected to water lines and operating power, the LUXGARDE™ UVC unit monitors for water flow using an integrated sensor. When the flow sensor detects a flow rate of over 0.5 liters per minute, the UV LEDs are enabled to accomplish UV treatment. UV LEDs are disabled once the flow sensor detects a flow rate of under 0.5 liters per minute. Under some operating conditions, filtered water resident in the UV chamber may contain microbial contaminants. In normal operation, LUXGARDE™ UVC should remain powered in standby mode, to permit the unit to operate LED ON for a minimum of one (1) minute every 12 cumulative hours of inactivity to prevent the growth of microbial colonies and the potential for biofilm formation. The LUXGARDE™ UVC will perform this operation independently under normal operating conditions and correct installation. The LED indicator will display the unit status of a properly installed and powered LUXGARDE™ UVC unit. The LED indicates the status of the LUXGARDE™ UVC using the following indication logic:

- Status Indicator LED Output
- UVC Disinfection Off LED Off
- UVC Disinfection On LED On
- End of Service Life, Replacement Required LED Blinking On Once per second
- Fault, restart required LED Blinking On 5 times per second

Thank you for choosing to install a Billi LUXGARDE™ UVC Module. Your LUXGARDE™ UVC is manufactured to exacting standards using high-quality materials and with proper maintenance and care, should function for many years. Billi® is a registered trademark of Billi Australia Pty Ltd. Luxgarde™ is a trademark of Billi Australia Pty Ltd. All rights reserved. Copyright protected. As Billi Australia Pty Ltd has a policy of continual improvement, all details are subject to change without notice. Please refer to our terms and conditions. 6714_BILLI_USER GUIDE-LUXGARDE_0723

Documents / Resources

	<p>Billi Luxgarde UVC Inline Module [pdf] User Guide Luxgarde UVC Inline Module, Luxgarde UVC Module, Inline Module, UVC Module, Module</p>
	<p>Billi LUXGARDE UVC Inline Module [pdf] Installation Guide LUXGARDE, LUXGARDE UVC Inline Module, UVC Inline Module, Inline Module</p>

