

# ECLIPSE UV 500

Internal UV Sterilisation & Filter



INSTRUCTION MANUAL

# ECLIPSE UV™ 500

## TECHNICAL SPECIFICATIONS



**SAFE**  
UV Protection



**RELIABLE**  
High Performance



**EFFICIENT**  
Clear Water



### TECHNICAL SPECIFICATIONS



**Model** EUV-500



**Power** 5W



**Flow Rate** Up to 500 L/h



**Voltage** 220-240V ~ 50Hz



**Cable Length** 1.5m



**Installation** Internal



**Maximum Aquarium Volume** 120L



**Protection Rating** IPX8



Ultra Quiet  
Operation



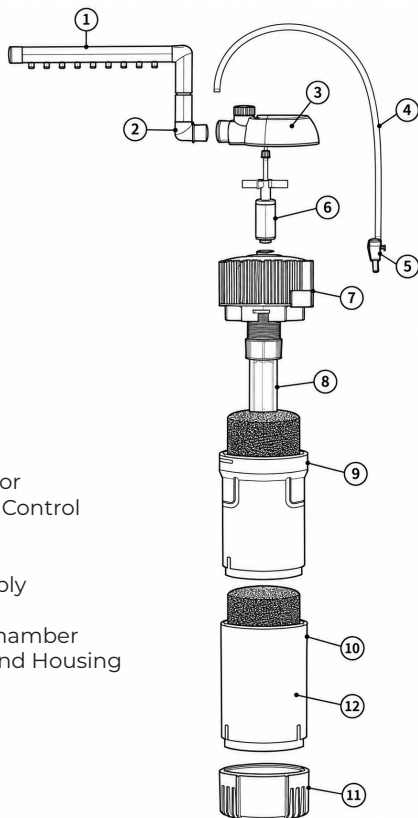
Energy  
Efficient



Easy  
Maintenance



Fully  
Submersible



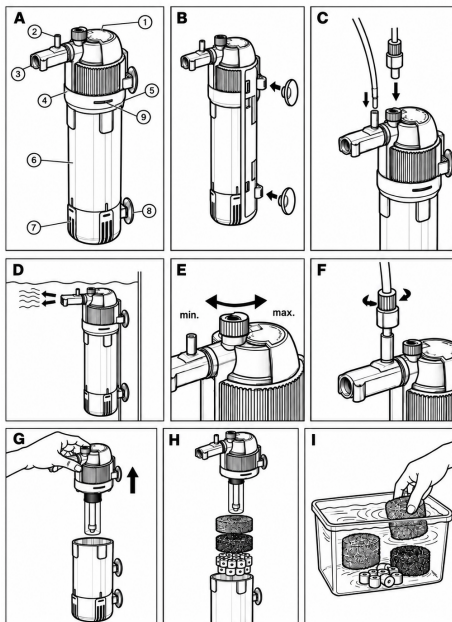
1. Spray Bar
2. Outlet Elbow Connector
3. Pump Head and Flow Control
4. Venturi Air Tube
5. Airflow Control Valve
6. Impeller/Rotor Assembly
7. Motor Housing
8. UV-C Quartz Sleeve/Chamber
9. Upper Filter Sponge and Housing
10. Lower Filter Sponge
11. Bottom Locking Cap
12. Lower Filter Housing

## LGND Eclipse UV™ 500

The LGND Eclipse UV™ 500 sterilising lamp has been tested and inspected to ensure safe and reliable performance. To prevent unnecessary injury or damage caused by improper operation or maintenance, please read and understand these instructions carefully before use. Keep this manual for future reference.

### Product Features

- Integrated 5 W UV-C Sterilisation
- Mechanical & Biological Filtration
- Up to 500 L/h Flow Rate
- Adjustable Water Outlet
- Spray Bar Included
- Optional Aeration Nozzle



| Model No.  | Voltage             | Power Consumption (W) | Tank Volume |
|------------|---------------------|-----------------------|-------------|
| 5W-EUV-500 | 220-240 V~ 50/60 Hz | 5 W                   | ≤120 L      |

# LGND Eclipse UV™ 500

## LGND Eclipse UV™ 500 Lamp Design

The integrated silicone waterproof end cap provides multiple seals around the lamp tube, offering excellent waterproof performance while allowing easy assembly and disassembly.

Compared with conventional rigid-plastic end caps, the new silicone waterproof end cap is more resistant to ultraviolet radiation. Its flexible material is also less likely to become damaged if knocked or impacted.

Rigid-plastic end caps can crack after prolonged exposure to ultraviolet radiation. This not only affects their appearance but can also compromise safety and make the product unsuitable for continued use.

## Operating Instructions

C

### Power / Timer Button:

Press the Power / Timer button repeatedly to select the desired operating mode:

ON + 4H + 8H + 12H + 24H + OFF

The indicator light below the selected duration illuminates. The operating cycle begins immediately after the mode is selected.

### Timer Modes:

- ON: The UV-C lamp operates continuously without an automatic timer.
- 4H: The UV-C lamp operates for 4 hours.
- 8H: The UV-C lamp operates for 8 hours.
- 12H: The UV-C lamp operates for 12 hours.
- 24H: The UV-C lamp operates continuously.
- OFF: The UV-C lamp and timer are switched off.

### Automatic Daily Cycle:

In 4H, 8H or 12H mode, the UV-C lamp operates for the selected number of hours and then switches off automatically. The same operating cycle repeats every 24 hours, beginning at the time at which the timer mode was originally selected. For example, if 4H mode is selected at 12:00, the UV-C lamp operates until 16:00. It then switches off automatically and restarts at 12:00 the following day.

### Memory Function:

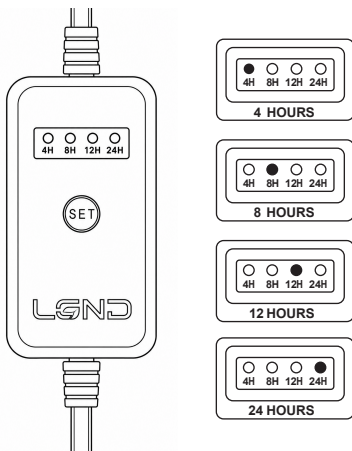
The timer stores the selected operating mode.

Following a temporary interruption to the power supply, the UV-C lamp resumes operation using the previously selected mode when power is restored.

The starting time of the automatic cycle may shift according to the duration of the power interruption.

The light does not need to remain on continuously. Select 4, 8, 12 or 24 hours per day according to the aquarium water conditions.

**Note:** The timer controls only the UV-C lamp. Water circulation operates continuously.



## General user instructions

### Information on using the operating manual



- Before using the appliance for the first time, the operating manual must be read fully and understood.
- Consider the operating manual as part of the product and keep in a safe and accessible location.
- Enclose this operating manual if passing the appliance on to a third party.

### Symbol explanation

The following symbols are used on the appliance.



The symbol indicates imminent danger from UV-C radiation that can result in injury to skin and eyes.



Do not look directly at the UV-C lamp. Direct exposure to UV-C radiation is prohibited.



Store the appliance in a frost-proof place.



The appliance is certified according to the relevant national regulations and directives, and conforms to EU standards.

The following symbols and signal words are used in this operating manual.



#### **DANGER!**

Risk of serious personal injury or death from a general source of danger.



#### **DANGER! Electric shock!**

Danger of electric shock with the risk of serious personal injury or death.



#### **DANGER! Mercury poisoning!**

The symbol indicates imminent danger that can result in a health hazard.



#### **WARNING!**

Danger of serious personal injury or health hazard.



#### **WARNING! UV radiation!**

The symbol indicates imminent danger from UV radiation that can result in injury to skin and eyes.



#### **CAUTION!**

Note on the risk of material damage.



Note with useful information and tips.

**Fig. A** Reference to an illustration.

## Application

The appliance and all parts included in the scope of delivery are intended for private use and must only be used:

- to disinfect aquarium water
- in compliance with the technical data

The following limitations apply to the appliance:



- Only operate the LGND Eclipse UV™ 500 as part of a correctly installed freshwater aquarium, sump or enclosed filtration system.
- Never operate the UV-C lamp outside its fully closed protective housing.
- Do not use the unit for commercial or industrial applications.
- Do not circulate caustic, corrosive, flammable or explosive substances, seawater or drinking water through the unit.
- Do not use the unit in swimming pools or swimming ponds.
- The water temperature must not exceed 35°C.
- Never operate the unit without continuous water flow or when the housing is empty.
- Switch off and disconnect the UV-C unit from the mains before stopping the circulation pump.
- Do not install or operate the unit in direct sunlight.

## Safety instructions

Risks for persons and property can arise from this appliance if the appliance is improperly used or not used as intended or if the safety instructions are not heeded.

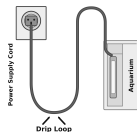
### For your safety



- Keep all packaging materials and small parts out of the reach of children and persons unfamiliar with their safe handling.
- Packaging materials may present a risk of suffocation. Keep them away from pets and other animals.
- This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or by persons lacking experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the appliance.
- For European markets only:
  - This appliance may be used by children aged 8 years and above and by persons with reduced physical, sensory or mental capabilities, or lacking experience and knowledge, provided that they have been given supervision or instruction concerning the safe use of the appliance and understand the hazards involved.
  - Children must not play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
- Before each use, visually inspect the appliance, particularly the mains cable and plug, for signs of damage.
- Do not use the appliance if the unit, mains cable, plug or any other component is damaged.
- Do not use the appliance if it is not working properly or is damaged.
- Do not pull or carry the appliance at the mains cable. Pull on the plug and not on the cable or appliance in order to disconnect from the power supply.
- Protect the mains cable against heat, oil and sharp edges.
- The mains cable of the appliance cannot be replaced. If the mains cable is damaged, the appliance must be scrapped.
- Only carry out the work described in these instructions.
- Never make technical modifications to the appliance.
- Only use original spare parts and accessories for the appliance.
- Repairs must only be carried out by an LGND service centre.
- Do not expose the appliance to temperatures below +4°C or over +35°C.
- Avoid placing in direct sunlight.



- The electrical installations must comply with the international and national erection specifications.
- The appliance must be protected by a residual current protection appliance with a maximum rated residual current of 30 mA.
- Immediately disconnect the appliance from the power supply if the residual current protection device trips.
- Always disconnect the appliance from the mains before installing or removing any parts and before carrying out cleaning or maintenance.
- Protect the mains socket and mains plug against moisture and wetness. A drip loop must be formed with the mains cable. This prevents any water running to the mains socket, which would result in a short-circuit.
- The electrical data of the appliance must match the data of the power mains.
- This data is found on the type plate, the packaging and in these instructions.
- Only connect the appliance to a correctly installed protective contact mains socket.
- Extension cables and power distributors must be suitable for use (protected against splashing water).





- Never operate the UV-C lamp outside the appliance. Unintended use of the appliance or damage to the housing may result in the emission of dangerous UV-C radiation. UV-C radiation can cause injury to eyes and skin, even at low dosage levels.
- Never look into the UV-C lamp's light.



- The tubes in the UV-C lamp contain toxic mercury. If mercury vapours are inhaled, there is a risk of poisoning. Therefore exercise caution when using the UV-C lamp and do not damage it. Never look into the UV-C lamp's light.

## Delivery scope and component overview (see A)

- ① Spray bar ② Outlet elbow ③ Pump head with flow control ④ Venturi air tube ⑤ Airflow control valve ⑥ Impeller/rotor assembly ⑦ Motor housing ⑧ UV-C quartz sleeve and chamber ⑨ Upper filter sponge with housing ⑩ Lower filter sponge ⑪ Bottom locking cap ⑫ Lower filter housing

## Preparation



### This device contains a UV-C bulb.

When unpacking, check that all parts have been included. For safety reasons, the UV-C lamp has been packed separately and not assembled in the unit in order to prevent breakage during transport.



**CAUTION: UV-C bulb contains mercury!** Handle the UV-C lamp carefully **DANGER OF BREAKAGE!** Do not touch the glass body directly with fingers. Be sure to use a soft cloth or similar material.

## Installation (see B)



### Read the operating and safety instructions carefully and comply with all instructions prior to assembly.

Lift the motor unit straight up and remove it from the filter body. Unscrew and remove the UV lamp cap by turning it counter-clockwise. Carefully withdraw the quartz sleeve. Insert the supplied UV-C lamp fully into the lamp socket until securely seated. Carefully reinstall the quartz sleeve and press it fully into position. Refit the UV lamp cap and tighten it clockwise until secure. Place the motor unit back onto the filter body and ensure that it is fully seated.



**CAUTION:** Never operate UV-C bulbs outside the device. Unintentional use of the device or damage to the housing can release dangerous UV-C radiation. **UV-C radiation may damage the skin and eyes, even at low doses.**

Attach the UV-C steriliser securely to a section of the aquarium glass where it can be firmly fixed using the supplied suction cups. Ensure that the unit is fully submerged and firmly secured before operation. Keep the controller and mains plug outside the aquarium in a dry location.

## Start up

Insert the mains plug into a suitable socket. Press the Power/Timer button to switch on the LGND Eclipse UV™ 500 and select the required operating time using the timer controller (see C).

## Cleaning and Maintenance



**CAUTION: Disconnect the LGND Eclipse UV™ 500 from the mains before cleaning or servicing.** Remove the unit from the aquarium and allow the water to drain before opening the housing. Never handle the appliance while it is connected to the power supply.

### Cleaning:

Clean the filter housing, water-intake openings and outlet regularly, particularly when the water flow becomes reduced. Remove the filter sponges and rinse them gently in water taken from the aquarium. Do not use detergents or chemical cleaning agents. Inspect and clean the quartz sleeve regularly, ideally whenever the filter is cleaned and at least once every three months. Remove any limescale or deposits carefully using a soft, damp cloth. Handle the quartz sleeve with care, as it is made of glass and may break.

### Maintenance:

For optimum UV-C performance, replace the UV-C lamp every 6–12 months, depending on operating time and water conditions. Disconnect the appliance from the mains and allow the lamp to cool before replacement. Remove the motor unit, unscrew the UV lamp cap counter-clockwise and carefully withdraw the quartz sleeve. Pull the UV-C lamp straight out of its socket. Insert a compatible replacement lamp fully into the socket, reinstall the quartz sleeve and secure the UV lamp cap by turning it clockwise. Reassemble the filter before returning it to the aquarium.



**WARNING:** Never operate the UV-C lamp outside the closed appliance housing. UV-C radiation can injure the eyes and skin, even at low exposure levels.

**CAUTION:** The UV-C lamp contains mercury and is fragile. Do not touch the glass directly with your fingers. Handle it using a clean, soft, lint-free cloth and dispose of used or damaged lamps in accordance with local regulations.

## Clearing faults



### DANGER! Electric shock!

- Before clearing faults, remove the mains plug.

| Fault                                           | Possible cause             | Remedy                                               |
|-------------------------------------------------|----------------------------|------------------------------------------------------|
| UVC lamp does not illuminate                    | No mains voltage           | ► Check the mains voltage<br>► Check the supply line |
|                                                 | Mains plug is not inserted | ► Insert the mains plug in the mains socket          |
|                                                 | UV-C lamp is defective     | ► Replace the UV-C lamp                              |
| Water is not clear Quartz glass sleeve is dirty |                            | ► Clean the quartz sleeve                            |
|                                                 | UV-C lamp no longer works  | ► Replace the UV-C lamp                              |
|                                                 | Mains plug is not inserted | ► Insert the mains plug in the mains socket          |

For other faults, please contact LGND Service.

## Decommissioning

### Storing and overwintering



1. Clean the appliance
2. Store the appliance in a frost-proof place.

### Disposal



When disposing of the appliance, pay attention to the relevant statutory regulations.

Information on the disposal of electrical and electronic appliances in the European Union: Within the European Union, disposal of electrically operated appliances is governed by national regulations that are based on the EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The appliance may no longer be disposed of with the municipal or household waste. The appliance will be accepted free of charge at municipal collection points or recycling centres. The product packaging is made up of recyclable materials. Dispose of them in an environmentally responsible manner and take them for recycling.

## Guarantee

### Two-Year Limited Commercial Guarantee

- The LGND Eclipse UV™ 500 UV-C is covered by a two-year limited commercial guarantee beginning on the date of delivery to the original purchaser.
- This guarantee covers defects in materials and workmanship arising during normal domestic use and in accordance with the operating instructions. It also covers premature failure of the original UV-C lamp, controller or other electrical components where the failure results from a manufacturing defect.
- The normal reduction in UV-C output and replacement of the lamp at the end of its normal service life are not covered.
- The UV-C lamp is replaceable. Before replacing it, switch off and disconnect the unit from the mains, stop the circulation pump, close any isolation valves and drain the steriliser housing. Replace the lamp strictly in accordance with the instructions in this manual. Use only a compatible UV-C lamp of the correct type and power rating.
- If a covered defect occurs during the guarantee period, the guarantor will, at its discretion, repair or replace the defective component or complete unit free of charge. Where a guarantee claim is accepted, the necessary postage or transport costs associated with the repair or replacement will also be covered.

### This guarantee does not cover:

- Normal wear and tear;
- The normal reduction in UV-C output over time;
- Replacement of the UV-C lamp at the end of its normal service life;
- Accidental damage;
- Damage caused by improper installation, operation, cleaning or maintenance;
- Operation without continuous water flow or while the steriliser housing is not completely filled with water;
- Operation while the unit is fully or partially submerged;
- Restricted water flow caused by kinked hoses or blocked inlet or outlet connections;

- Damage caused by limescale, dirt, deposits or inadequate cleaning;
- Damage caused by incorrect removal, installation or replacement of the UV-C lamp;
- Damage to the quartz glass sleeve or other components occurring during maintenance or lamp replacement;
- Unauthorised modifications, dismantling or repairs;
- Use of an incompatible replacement lamp;
- Use with an unsuitable power supply;
- Water ingress into the controller, mains plug or other non-submersible electrical connections;
- Commercial or industrial use, or use outside the operating conditions specified in this manual.
- To make a guarantee claim, contact the retailer from whom the product was purchased or the guarantor. Please provide proof of purchase, the product model and a description of the fault. Photographs or video evidence may be requested, and the product may need to be returned for inspection.
- This commercial guarantee is provided in addition to, and does not exclude, restrict or otherwise affect, your statutory rights and remedies under applicable consumer law.

# **ECLIPSE**

## **LGND Eclipse UV™ 500**

Date of Purchase

| Model NO. | Serial NO. | Watt | Signature |
|-----------|------------|------|-----------|
|           |            |      |           |

# ECLIPSE UV™ 500

## INSTALLATION DIAGRAM



**SAFE • RELIABLE • EFFICIENT**

Advanced 3-Stage Filtration  
Mechanical • Biological • UV Sterilisation

### 1 POSITION THE FILTER



Position the filter vertically inside the aquarium. Ensure it is securely attached using the supplied suction cups.

### 2 REMOVE TOP MOTOR UNIT



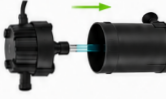
Lift the motor unit straight up and remove it from the filter body.

### 3 INSERT FILTER COTTON



Insert the filter cotton into the filter body. Make sure it is seated properly.

### 4 REATTACH MOTOR UNIT



Place the motor unit back onto the filter body and ensure it is fully seated.

### 5 REMOVE UV LAMP CAP



Unscrew and remove the UV lamp cap (counter-clockwise).

### 6 REMOVE QUARTZ SLEEVE



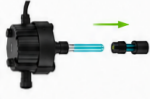
Carefully pull out the quartz sleeve. Handle with care and avoid impact.

### 7 REMOVE UV LAMP



Gently pull the UV lamp straight out of the socket.

### 8 INSTALL NEW UV LAMP



Insert the new UV-C lamp (5 W) fully into the socket until secure.

### 9 INSERT QUARTZ SLEEVE



Slide the quartz sleeve back into the chamber until it is fully seated.

### 10 REATTACH UV LAMP CAP



Reinstall the UV lamp cap and tighten clockwise until secure.

#### IMPORTANT SAFETY NOTES



- Always disconnect the filter from the power supply before maintenance.
- Never operate the UV lamp outside the filter housing.
- Avoid direct exposure to UV-C light.
- Handle the quartz sleeve carefully. It is made of glass and may break.
- Replace any damaged quartz sleeve or UV lamp immediately.



#### RECOMMENDED MAINTENANCE

Clean the quartz sleeve regularly to maintain maximum UV efficiency. Replace the UV lamp every 6–12 months for optimal performance.

#### COMPATIBLE PARTS

- LGND Eclipse UV™ 500
- Replacement UV-C Lamp – 5 W
- Quartz Sleeve
- Filter Cotton
- UV Lamp Cap Seal Kit



Contact: LGND Service Centre  
01293 510787 (Weekdays 10:30–17:30)  
E-mail: [support@lgndadn.co.uk](mailto:support@lgndadn.co.uk)

Distributed by: AquaCoffeeShop Ltd.  
15 Hatfield Walk, RH11 6EH, Crawley,  
West Sussex, United Kingdom  
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