

1. GENERAL SAFETY INSTRUCTIONS:

- This device is a UVC LED module for the disinfection of drinking water.
- It does not remove chemical contaminants (e.g. heavy metals, chlorine, pesticides).
- The system does not replace a complete water treatment process.
- For effective disinfection, the water must be clear and pre-filtered.
- The device must only be used within the specified operating parameters.

2. WARNING – SAFETY INSTRUCTIONS

- UVC radiation (260–280 nm) is dangerous for eyes and skin.
- The module must only be operated in a completely closed, light-proof system.
- Never look directly into the active UVC source.
- The device must not be opened or tampered with during operation.
- Maintenance and installation must only be carried out when the device is disconnected from power.

3. INSTALLATION AND OPERATION NOTES

- The module is intended for use in:
 - motorhomes (camper vans)
 - food trucks
 - and as a final stage in reverse osmosis systems
- The maximum flow rate must not be exceeded, otherwise disinfection performance will be reduced.
- The integrated flow sensor system ensures that:
 - the UVC LEDs are activated only when water flow is present
 - they are automatically switched off when no flow is detected
- Despite this safety function:
 - The device must not be operated intentionally without water
 - Proper integration into the water system must be ensured
- The module must be installed in such a way that:
 - no UVC light can escape to the outside
 - no air bubbles remain in the system (this may reduce effectiveness)

4. IMPORTANT NOTE FOR CAMPERS / MOTORHOMES



WARNING – RISK OF FROST!



This device is not frost-proof.

Even slight sub-zero temperatures may cause remaining water inside to freeze. This can lead to mechanical damage and complete device failure.

Before frost conditions, it is mandatory to:

- completely drain the device
- remove it from the water system
- store it in a frost-free environment

***The device may only remain installed in a vehicle if freezing conditions can be reliably excluded.**

5. WARRANTY

- The warranty becomes void in particular in case of:
 - improper use
 - exceeding technical operating limits (e.g. flow rate l/min)
 - improper installation or commissioning
 - operation under frost conditions or frost damage
 - unauthorized modifications or opening of the device

6. DISCLAIMER OF LIABILITY

- The manufacturer accepts no liability for damages resulting from:
 - improper use
 - failure to follow these instructions
 - incorrect installation
 - operation outside specified conditions
 - No liability is assumed for consequential damages, in particular:
 - water damage
 - health damage due to improper use
 - use of insufficiently treated water
- to the extent permitted by law

UV-C disinfection device, LED UV-C module for water sterilization in motorhomes and filtration systems.

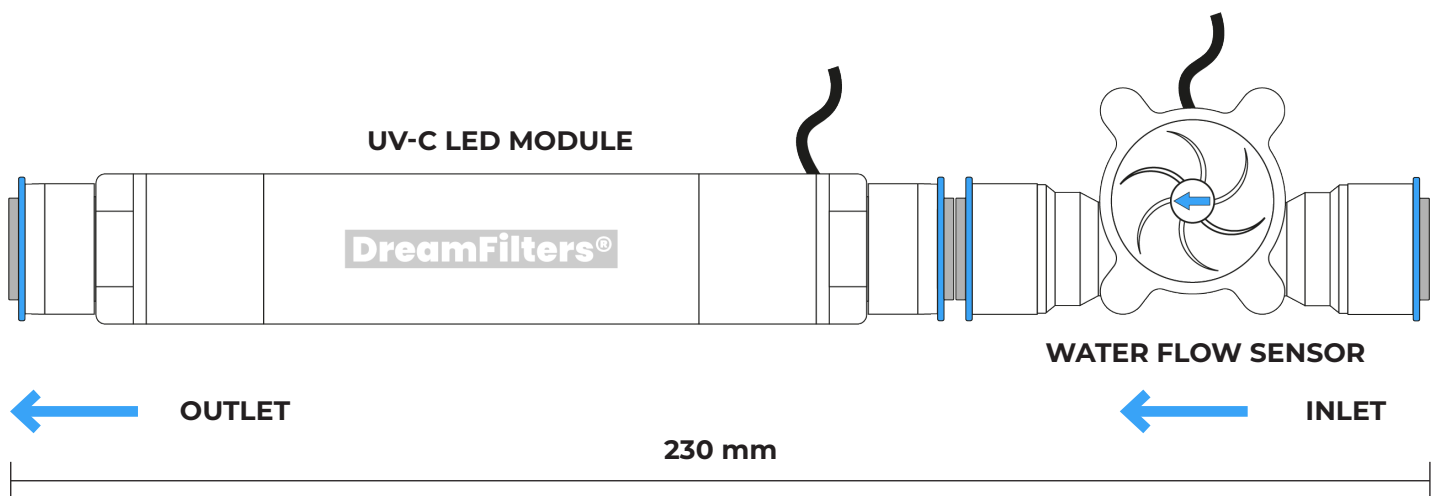
Installation of the module:

The user receives a pre-assembled UV-C LED module with a flow sensor. The set also includes hoses that can be used – if necessary – to connect the module to the user's water installation. Mount the LED UV-C module using the two mounting clamps included in the set at a suitable location in the water line – ideally after the water filter.

Connection of the flow sensor:

The flow sensor included in the set must be installed in the line before the UV-C module. This sensor automatically activates the module when water is flowing, thereby preventing unnecessary operation.

IMPORTANT: Pay attention to the installation direction of the module with the water flow sensor. In the diagram below, the direction of water flow is marked with a blue arrow. In other words: the UV-C LED module is always positioned closer to the water outlet (e.g. kitchen tap), meaning after the flow sensor.



Overall dimensions of the pre-assembled unit (L × W × H): 230 mm × 23 mm × 35 mm

The UV-C LED module is supplied as a pre-assembled unit including the connected water flow sensor. If installation space is limited, the sensor can be disconnected from the module and installed separately at a suitable location upstream of the UV-C LED module. However, the flow sensor is an essential component of the entire system, as it detects water flow and automatically activates the UV-C water sterilization process.

Electrical connection:

The module can be connected directly to a suitable 12V or 24V power source (depending on the model). Ensure correct polarity and, if necessary, protect the circuit with a fuse.

Alternatively, operation via a separate power supply with a 230V connection is possible. For this, only use the power supply recommended by the manufacturer, which has the appropriate output voltage and sufficient protection rating.



DC 12/24V

The cable is equipped with WAGO connectors, allowing for quick and secure connections in the installation, for example in a motorhome.



AC 230V

The power supply for the UV-C LED module allows direct connection to the mains power, which is especially convenient, for example when installed in the kitchen under the sink.

Quick connectors of the LED UV-C module



Plug connections in practice

a) To connect the hose, simply push it in until you feel resistance, then place the blue safety ring on.



b) To disconnect the hose from the module, first remove the safety ring. Then **press** the gray ring **evenly** – as shown in the adjacent picture – and pull the hose out. Without evenly pressing the gray ring, the hose cannot be removed.

NOTE: The UV-C LED module and the flow sensor have 3/8-inch quick connectors. If the user's installation requires hoses of different sizes, please do not hesitate to contact us – we will provide the module with suitable reducers or adapters so that it fits perfectly with the specific installation.

Functioning of the UV-C LED module

The UV-C LED module is equipped with three-color LEDs that inform the user about the current status:



The red LED light is on when the module is in standby mode.



The green LED light is on when water flows through the UV-C module and disinfection is taking place, indicating proper functioning of the UV-C module.



The orange LED light is on when the UV module is not functioning properly. This means the UV-C module needs to be replaced.

Technical data:

Voltage:	12V/24V/230V
Rated power:	7W
On/off cycles:	30.000 cycles
Light output	25 mW / per individual LED
LED lifetime:	10,000 hours
Maximum water flow rate:	4-6 liters per minute
Automatic water flow detection:	Yes

Notes on use and disposal:

This device is intended solely for water disinfection and must only be used according to the technical specifications. It is not suitable for use with chemically contaminated or industrially polluted water.

At the end of its service life, the LED UV-C module must be disposed of in an environmentally responsible manner according to applicable local regulations. Electronic components must not be disposed of with household waste.

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