

Assembly and operating instructions

1. Delivered goods

- UVC module for passage in stainless steel with installed quartz glass, max. operating pressure 10 bar
- Power supply for 230V transformer for UV lamp
- UV bulb

2. Assembly and operation

The installation and operation of the system can be vertical or horizontal.

Note: to ensure the best possible venting of the UVC module, it is recommended to let the water flow into the bottom of the tube and flow out of the top of the tube.

The UV system is mounted with the supplied clamps and is connected to the power when there is water in the reactor.

Avoid touching quartz glass and bulb with bare hands to avoid grease stains that get stuck in the glass. The glass can be cleaned with alcohol-based cleaning agent.



3. Use of the UV unit

The system is built up with *Finder* day/week clock which can be programmed for start at 30 minutes level.

The system is constructed so that when connected to power the week clock is activated and the inserted day/week plan is activated.

For manual operation, the front rotary switch can be activated for manual operation.

If the unit is in automatic operation and manual operation is selected, the system switches off.

There are two lamps on the front of the power box indicating the lamp's function. In green light the lamp is on. At red light, the lamp does not light, and the system is switched off or there is an error in the system.

Front:

On the front, there are the following components:

Emergency stop for interruption of the entire system

Knob for manual operation (turn right)

If this is activated during automatic operation, the system switches off. Turning the button back to the vertical position automatically operation resumes.

Green signal lamp for normal operation of the lamp.

Red signal lamp for fault or turned off system.



4. Timer setting

Finder day/week clock:

In the box is a *Finder* da/week clock model 12-51. This model can be programmed from the joystick on the front or via the app on a mobile phone.

Instructions for this can be found at:

https://gfinder.findernet.com/public/attachments/12/EN/IB1251NFC_EN.pdf

App store:

- Finder toolbox NFC
- Select model 12:51

5. Error Description

In case of insufficient disinfection and operation of the system, please check the following:

Possible causes

Dirt on the quartz tube

Overheating the system

Air in the system

Expiration of the bulb life

Power supply defective

Remedy of the problem

Cleaning (avoid using funds and tools that grinds) and finish with an alcohol-based detergent to remove fat residues.

Check that there is water flow in the system.

Vent the system by sending water into the bottom of the module and out through the top.

Change the bulb. Note that the bulb efficiency is guaranteed for 10,000 hours (14 months) and that the bulb remains lit after that period. The efficiency is greatly decreasing then and the bulb should be changed.

If there has been water in the control box, power supply can short-circuit and must therefore be replaced.

5. Cleaning and maintenance

The quartz tube should be inspected for coatings annually or more frequently if there is ocher or lime in the water.

Procedure: Turn off the lamp, close the water flow and release the clamp at the top of the system.

Gently pull the quartz tube out of the UVC module. Wear clean gloves when touching the quartz tube and finish with wiping with alcohol-based detergent.

Basically, all kinds of cleaning agents with low pH can be used. Do not use abrasives and cleaning tools. The bottom of the reactor can be removed for complete cleaning. Some models have mounted silicone gasket at the bottom and it should be changed annually.



6. Replacing the bulb

The bulb should be changed after 8-10,000 hours of operation (depending of type).

Turn off the unit.

Replacing the bulb can be done without closing the water flow or disassembling the system.

Loosen the screw at the top of the system, then pull back into the cord and pull out the bulb.

Beware, the bulb can be hot!

Pull the bulb off the plug and attach the new bulb. Avoid touching the bulb with bare hands. Polish if necessary the bulb with alcohol-based agent.

Reinstall the bulb as it was removed and tighten the cable gland again.



7. Safety instructions

Note:

UV light is dangerous for both skin and eyes. Short-term illumination with UV light causes severe skin burns and eye damage.

The UV lamp must be switched on when the system is installed and mounted.



8. Warranty regulations for UV low pressure lamps

The following guarantee is given on supplied UV low pressure lamps:

The basis for an assessment of a replacement is the assessment of the lamp by the supplier. This means that all complaints must be submitted after prior written agreement.

The total warranty period may not exceed 2 years from the time of delivery.

- Up to 1,000 hours of consumption is completely replaced.
- Up to 10,000 hours follow a replacement corresponding to the burning time.
- If the original transformer is not used, the warranty will be reduced to 70% burn time.

If nothing else is stated, the number of on/off is set to 3 times per. day.

The burning time and start-up can be verified by suitable methods.

The use of the lamp must be through the use of the supplied voltage sensor, or one of a voltage sensor that has been tested and approved by the supplier.

Glass breakage is not replaced.

If no separate agreements are made, these conditions apply.

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