

Non-contractual representation, these data are subject to change

Description		FZI 100
Flow rate (40 mJ/cm ² at 98% transmission)		9.95 m ³ /h
UVc Treatment chamber		
Volume of UVc chamber		36 liters
Weight of the packed device		20 Kg
Input / Output		2" male gas bsp
Material		Inox 316L
Service pressure		4 bars
Pressure max.		10 bars
Electrical cabinet		
Weight		2.2 Kg
Electrical consumption		130 Wh
Protection		Fuse 1 A
Supply voltage		220-230V AC -50Hz
Ambient temperature		0 - 30 °C
UVc lamp		
Number of lamps		1
Lamp reference		18L115
Germicidal power		34 W UV-C
Lamp lifetime		9 000 hours

SECURITY

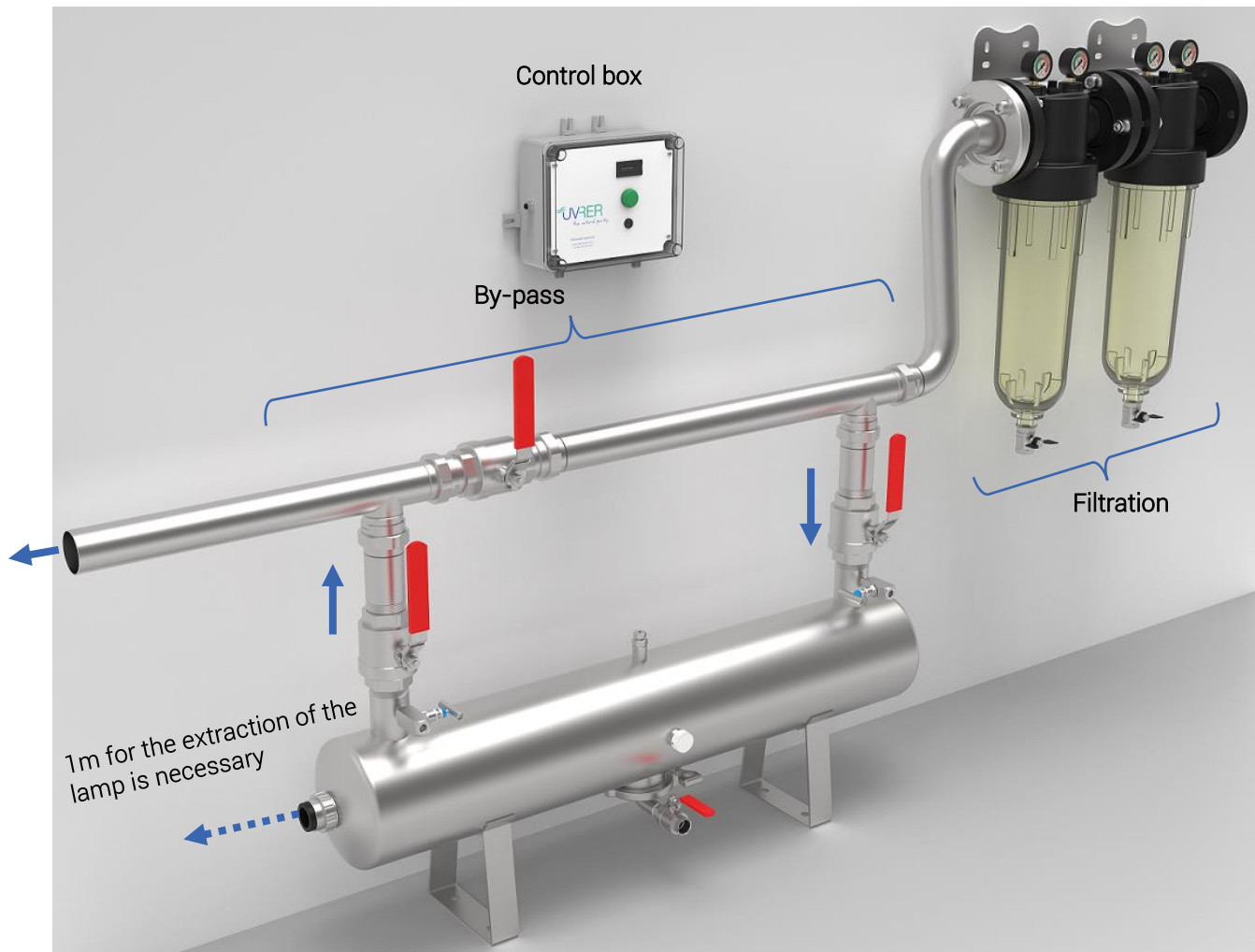
- ❖ Do not operate the UV-c Emitter while removed from the device enclosure
- ❖ Never expose your eyes directly to UVc
- ❖ Never operate the device electrically without putting it in water
- ❖ We recommend filtration before treatment
- ❖ This device is not intended for use by people (including children) whose physical, sensory or mental capacities are reduced, or by people without experience or knowledge, unless they have been able to benefit from the through a person responsible for their safety, supervision or prior instructions concerning the use of the device.
- ❖ This device contains a **UV-C lamp, this contains mercury, be careful when handling.**
- ❖ Unexpected use of the device or damage to its casing may cause dangerous UV-C radiation to leak. UV-C radiation, even in small doses, can be dangerous for the eyes and the skin.
- ❖ Devices that are obviously damaged must not be put into operation.

Only a professional can support the installation and maintenance of the device

1. Commissioning of the UVc bactericide:

1. Make the hydraulic connection of the device:

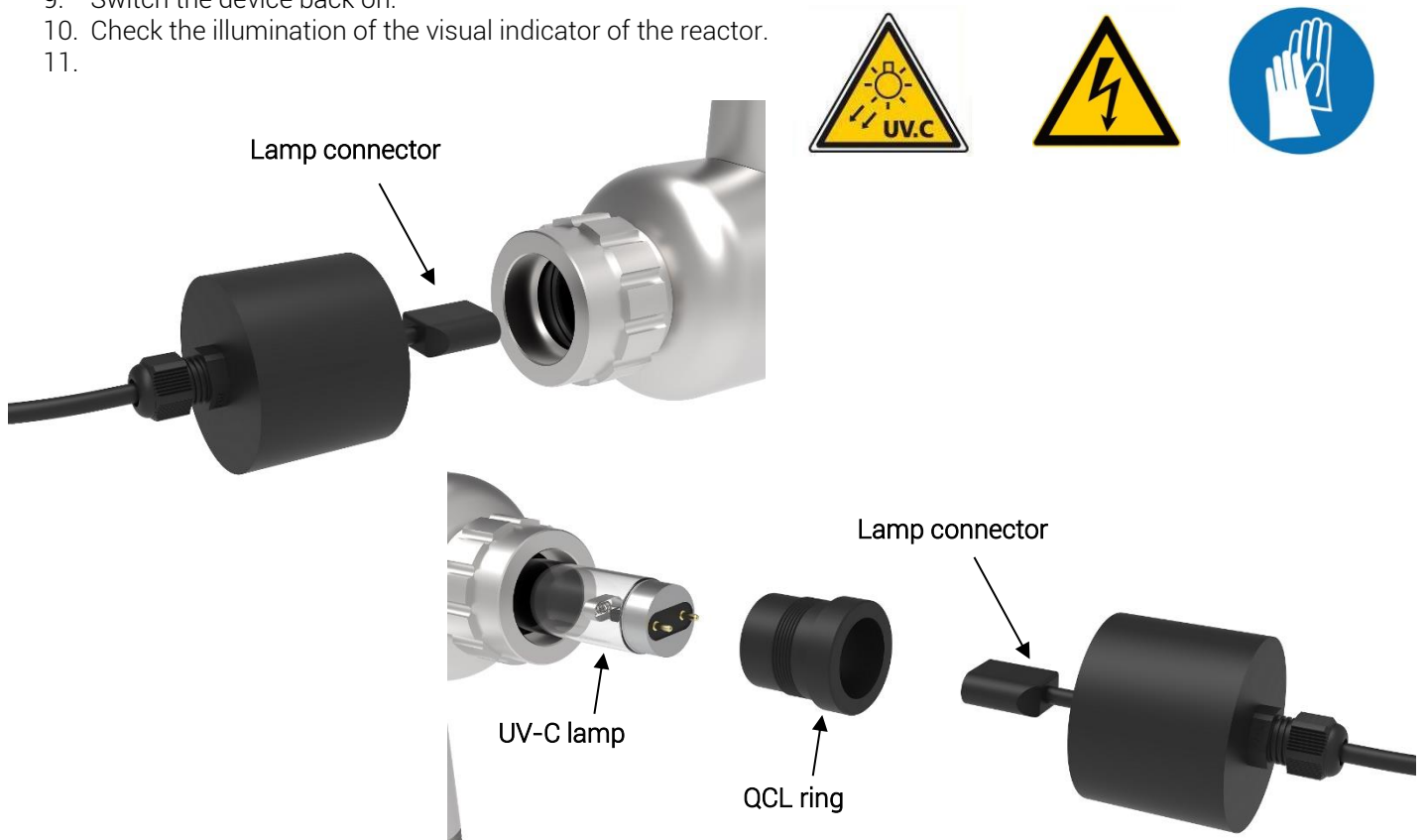
Installation in a horizontal position, example of installation for a FZI 100



2. Check the tightness of the cable gland,
3. Put the device in water and under mains pressure,
4. Purge the air contained in the device by opening a water point in the installation,
5. Ensure proper sealing after pressurization,
6. Connect the power cord of the device only and screw the earth lug connected to the control box onto the body of the device.
7. Power the electrical box,
8. Check that the green lamp operation indicator lights are on,
9. The counter then starts running.
10. Set the desired flow
11. Wait for the lamps to heat up (5 to 10 minutes)
12. Use

2. Lamp replacement:

1. Shut off the water to your installation.
2. Switch off the device.
3. Check that the "lamp jar" visual indicator is no longer illuminated.
4. Extract the black caps then disconnect the bulb connectors.
5. Unscrew the QCL ring, then extract the lamp from the reactor chamber.
6. Reposition the new bulb of the same power and same reference.
7. Screw the QCL ring on the QCL cable gland.
8. Reconnect the lamp connectors and reposition the caps.
9. Switch the device back on.
10. Check the illumination of the visual indicator of the reactor.
- 11.



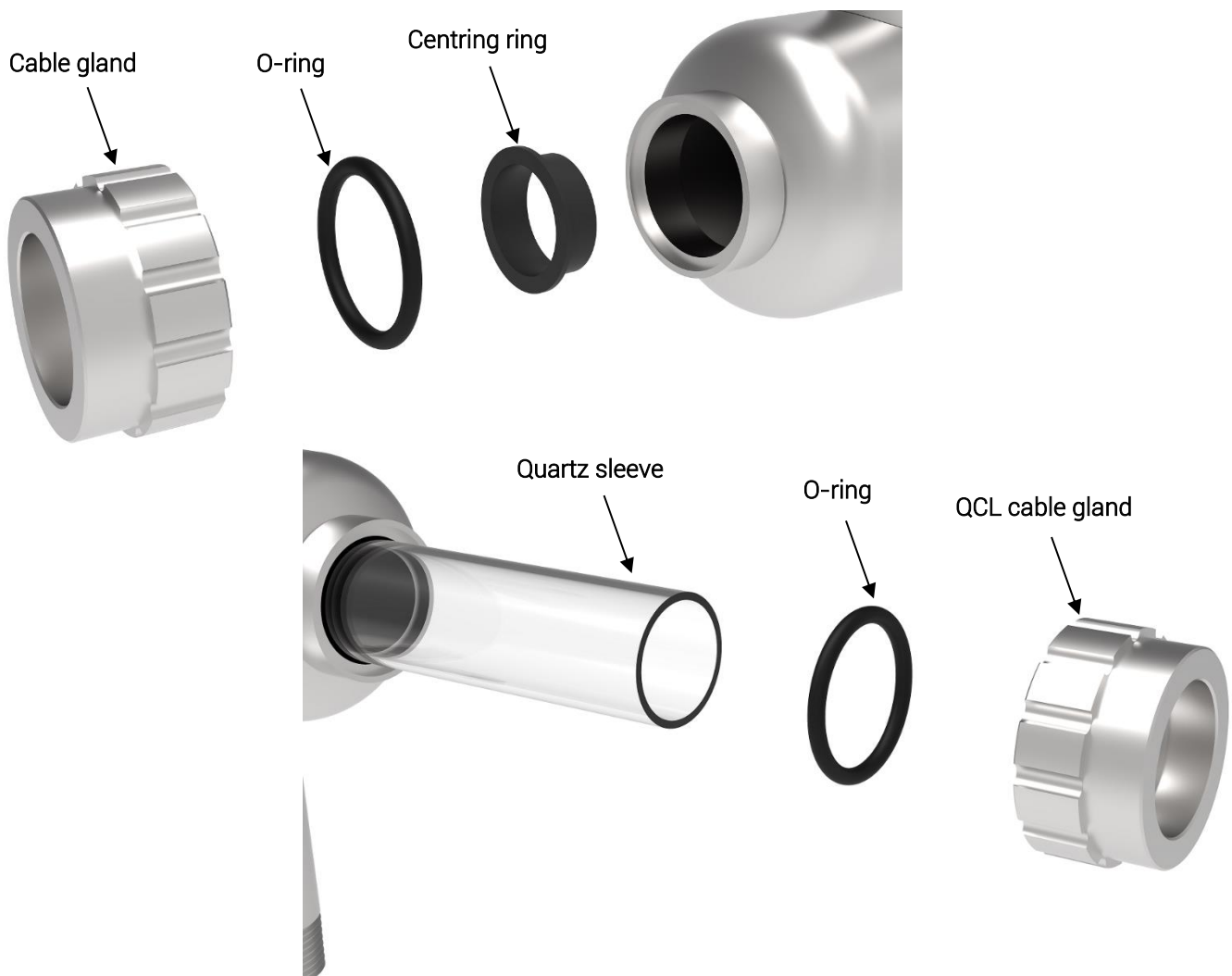
WARNING: the bactericidal effect of the lamps decreases from 9,000 hours of operation. It is therefore imperative to replace the lamp, in the event of exceeding this, you would expose yourself to a bacterial risk, the legal germicidal dose no longer being reached.

If the lamp is broken or at the end of its life, you must take it to a recycling company



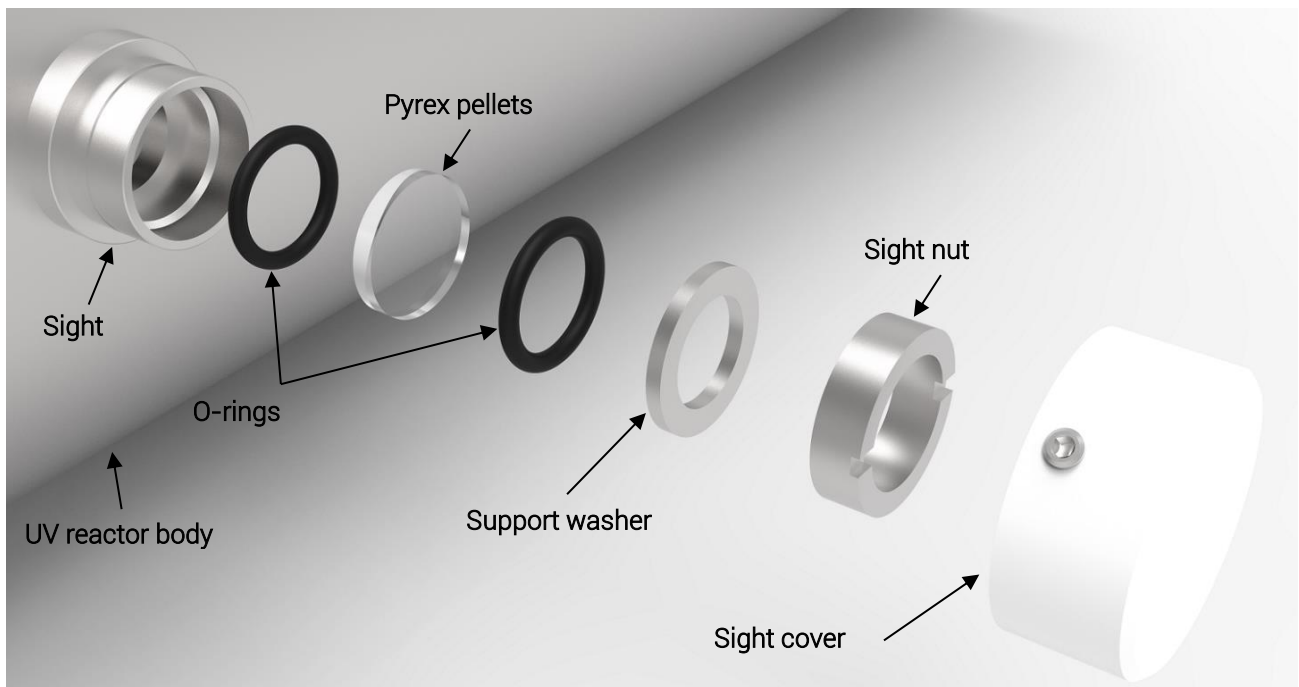
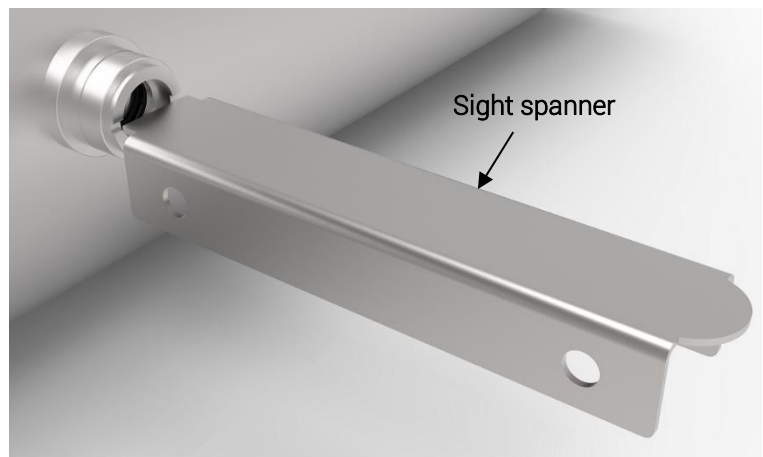
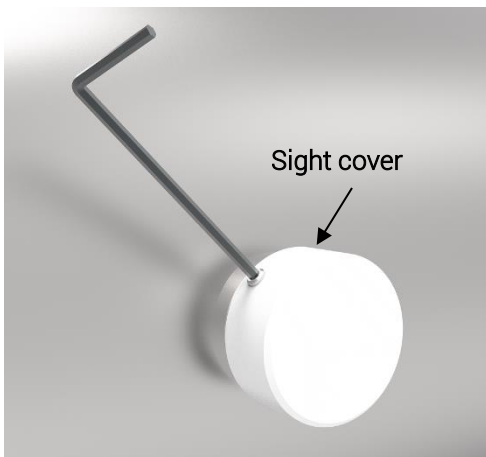
3. Replacement or cleaning of the quartz sleeve

1. Shut off the water to your installation.
2. Switch off the device.
3. Check that the "lamp jar" visual indicator is no longer illuminated.
4. Extract the black caps then disconnect the bulb connectors.
5. Unscrew the QCL ring, then extract the lamp from the reactor chamber.
6. Unscrew the cable glands, pay attention to the remaining centring ring, side opposite to the QCL ring.
7. Extract the quartz sleeve from the reactor chamber, taking care to keep it in line with the device at all times.
8. Clean or replace the **quartz sleeve**.
9. Adjust the **O-ring** on the latter (5mm from the edge).
10. Provide clean gloves and carefully reposition the quartz sheath without soiling.
11. Reposition the centring ring then retighten the cable glands.
12. Watering the device gradually. (without lamp)
13. Purge the air contained in the device using the air purge
14. Ensure proper sealing after pressurization.
15. Reposition the lamp, retighten the QCL ring.
16. Reconnect the lamp connectors and reposition the caps.
17. Switch the device back on.
18. Check the illumination of the visual indicator of the reactor.



4. Replacement or cleaning of the UV sight:

1. Partially drain the reactor to facilitate manhole dismantling.
2. Extract the manhole cover by unscrewing the needle screw with an Allen key.
3. Unscrew the manhole nut with the appropriate tool (manhole wrench) in an anti-clockwise direction.
4. Clean the Pyrex pellet then replace the O-rings.
5. Proceed with reassembly with the O-rings supplied, taking care to check that the stacking corresponds to the diagrams above and that the support washer is correctly centred in the sight glass.
6. Moderately tighten the sight nut with the sight spanner.
7. Replace the sight cover.



5. Repair:

Observations	Cause	Solution
Leak at the stuffing box	Cable gland unscrewed	Tighten the cable gland
	Defective O-ring	Replace O-ring
	Cracked quartz	Replace quartz / check UV lamp
Leak on the sight	Defective O-ring	See UV sight replacement (page 6)
	Unscrewed sensor support	Replace lamp
Defective UV lamp	Exceeded lifetime	Check connection
	Bad connexion	Replace ballast
	Defective ballast	Check the 230V 50Hz power supply
	Faulty power supply	Check the quartz, seal and replace the lamp
	Water infiltration in the quartz	Tighten the cable gland

This appliance is not equipped with a quartz cleaning system. However, it is possible to clean it outside the device. In the event of a handling error, it is possible to break the quartz inside the device.

How to proceed :

1. Switch off the device.
2. Drain the unit, open the air purge to facilitate complete draining.
3. Disconnect the device.
4. Unscrew the collar clamp located on the lower part of the device.
5. Remove quartz debris.
6. Rinse the inside of the unit.
7. Make sure there is no debris inside the pipes.

- **The device does not have an automatic cleaning system. For cleaning you must use an acid.**
- **After cleaning the device with a chemical solution, it is mandatory to rinse the system before use**

If necessary, it is possible to watch one of our tutorial videos on YouTube via this QR Code:

