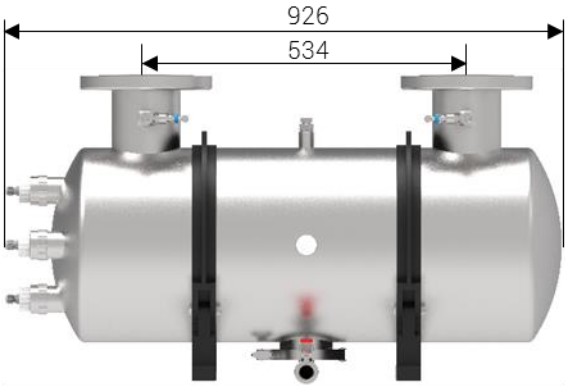
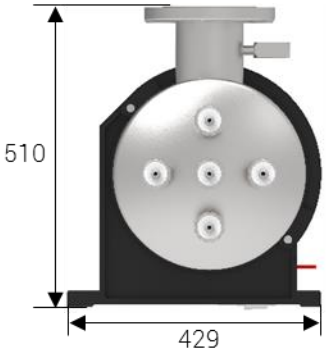
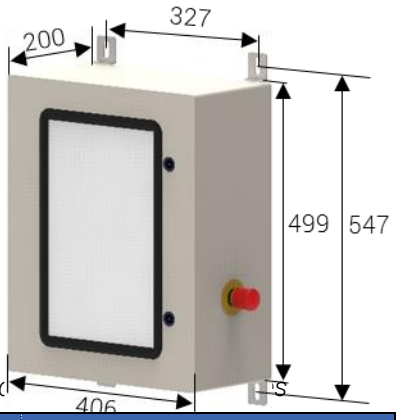
DFI 530
Technical sheet







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Description	DFI 530
Flow rate (40 mJ/cm² at 98% transmission)	110.48 m³/h

UVc Treatment chamber	
Volume of UVc chamber	55 liters
Weight of the packed device	39 Kg
Input / Output	4" with flanges
Material	Inox 316L
Service pressure	4 bars
Pressure max.	10 bars

Electrical cabinet	
Weight	15 Kg
Electrical consumption	700 Wh
Protection	C10
Supply voltage	220-230V AC –50Hz
Ambient temperature	0 - 30 °C

UVc lamp	
Number of lamps	5
Lamp reference	TUV 130XPT
Germicidal power	48 W UV-C
Lamp lifetime	12 000 hours

303 route de Brignais, 69230 St Genis Laval, France - Web : www.uvrer-anemo.com
Tel : +33(0)4.78.50.02.37 - Fax : +33(0)4.78.51.21.93 - Mail : contact@uvrer.com

SECURITE

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

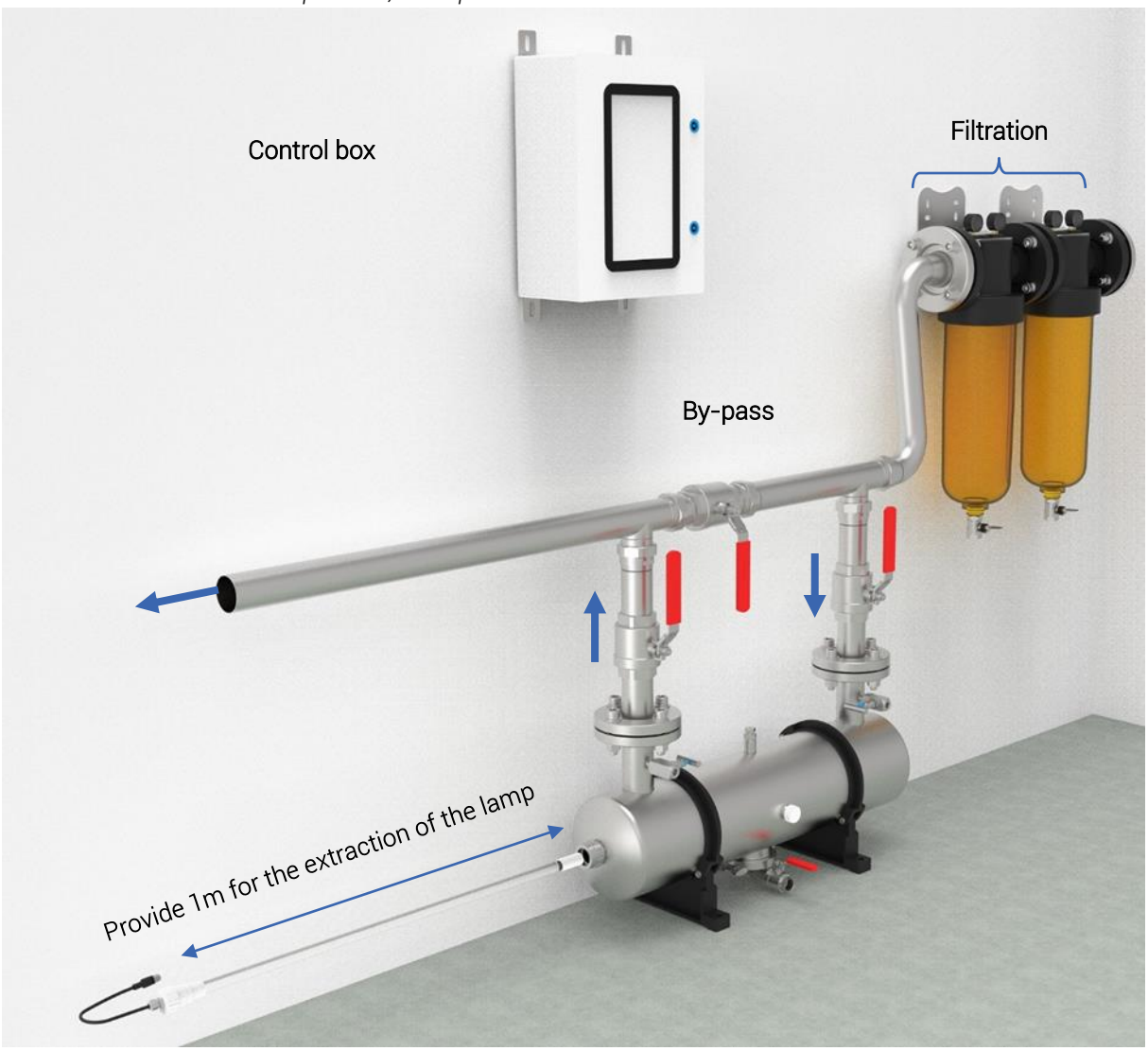
- This device is not intended for use by people (including children) whose physical, sensory or mental capacities are reduced, or by people without experience or knowledge, unless they have been able to benefit from the through a person responsible for their safety, supervision or prior instructions 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 :

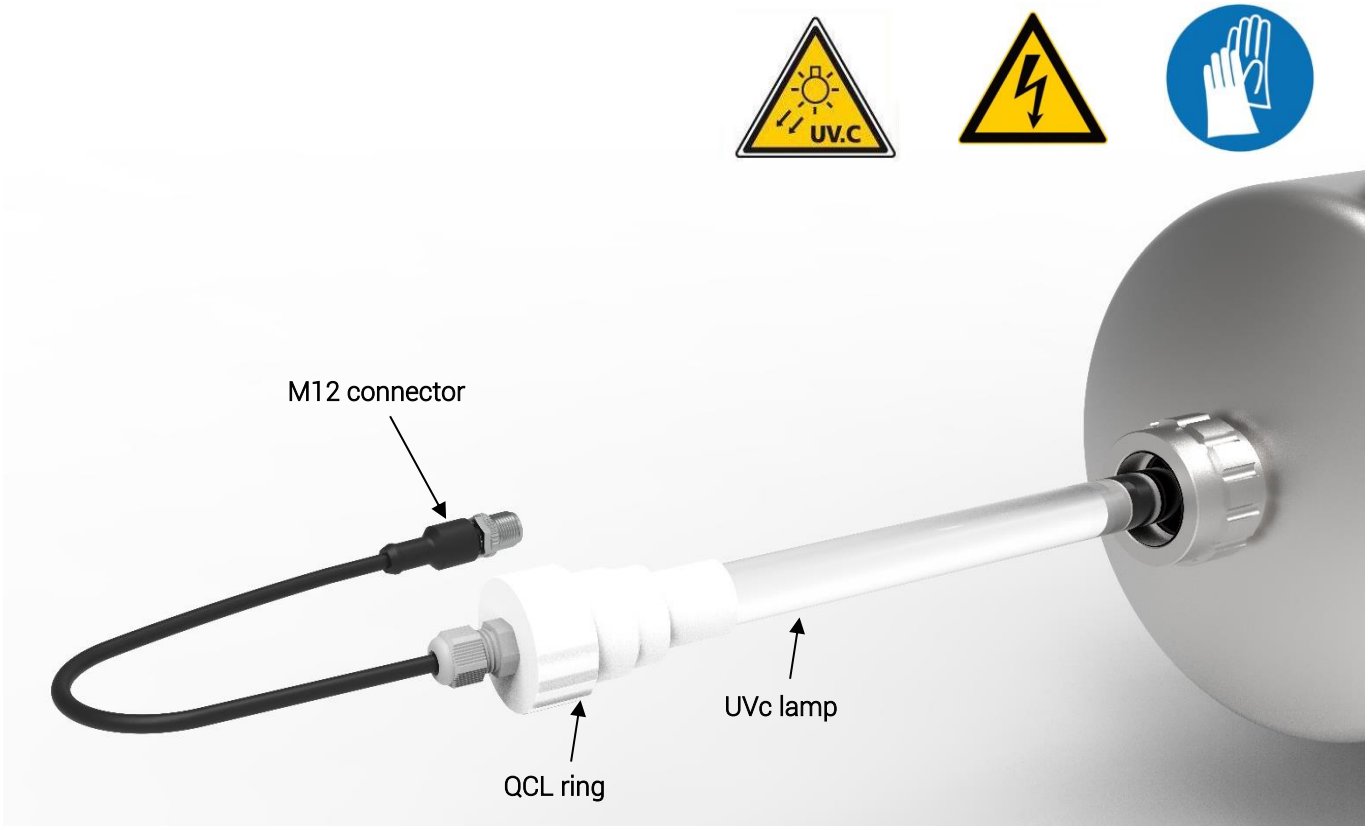
Installation in a horizontal position, example of installation for a DFI 130



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. 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. Disconnect the lamp connector from the electrical board.
5. Unscrew the needle screw with an Allen key then unscrew the black Delrin ring.
6. Extract the UVc lamp from the device.
7. Reposition the new lamp in the fixture.
8. Screw the black Delrin ring back on then the needle screw.
9. Filling the device with water (gradually).

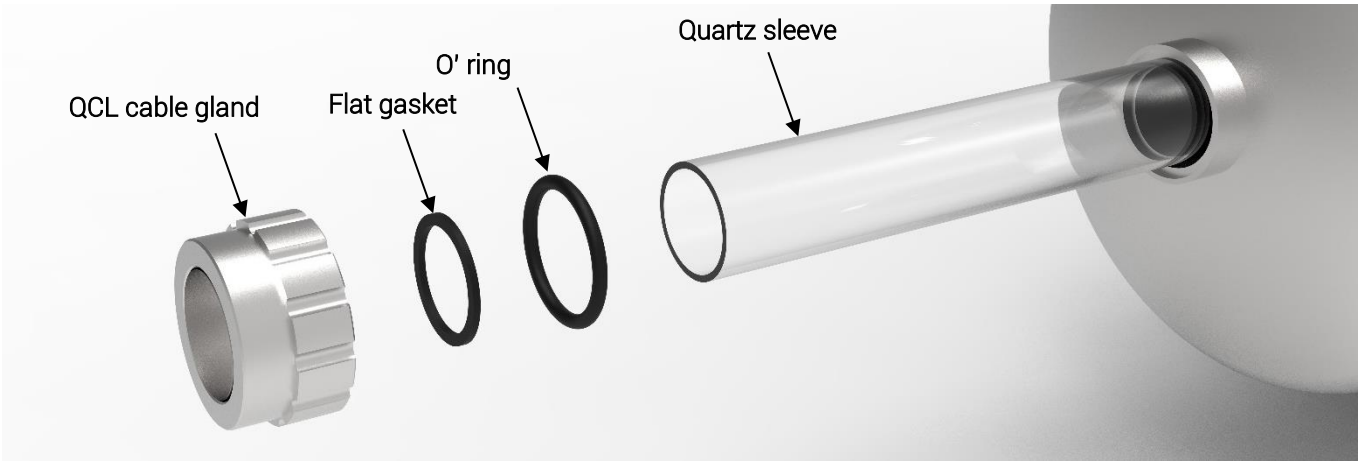


WARNING: the bactericidal effect of the lamps decreases from 9,000 hours of operation. It is therefore imperative to replace the lamp, in the event of exceeding this, you would expose yourself to a bacterial risk, the legal germicidal dose no longer being reached.

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

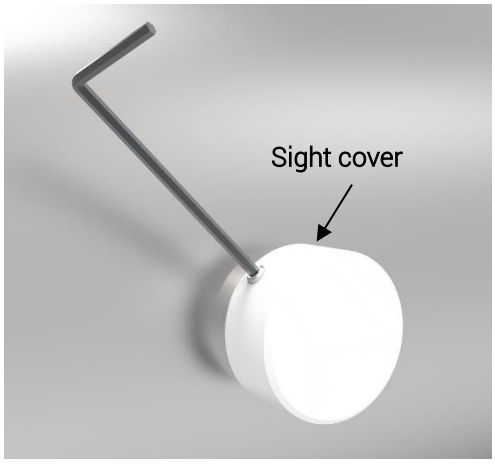
3. Replacement or cleaning of the quartz sleeve

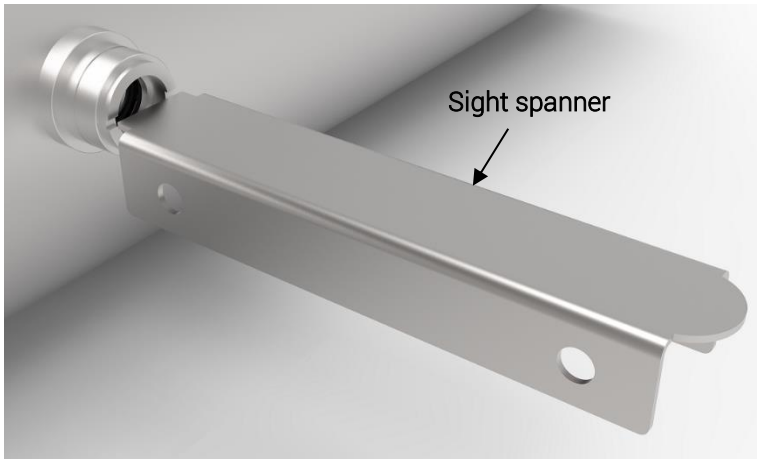
1. Shut off the water to your installation.
2. Switch off the device.
3. Check that the "lamp jar" visual indicator is no longer illuminated.
4. Disconnect the lamp connector from the electrical board.
5. Unscrew the **black Delrin** ring.
6. Extract the **UVc lamp** from the reactor chamber.
7. Unscrew the **cable gland**.
8. Extract the **quartz sleeve** from the reactor chamber, taking care to keep it in line with the device.
9. Clean or replace the **quartz sleeve**.
10. Adjust the **O-ring** on the latter (5mm from the edge).
11. Fit the **flat gasket** on the cable gland.
12. Carefully reposition the new **quartz sleeve**.
13. Screw in the cable gland.
14. Screw the **black Delrin ring** back on.
15. Watering the device (gradually).
16. Check for leaks.
17. Reconnect the lamp connector to that of the electrical box.
18. Switch the device back on.
19. Check illumination of lamp base.

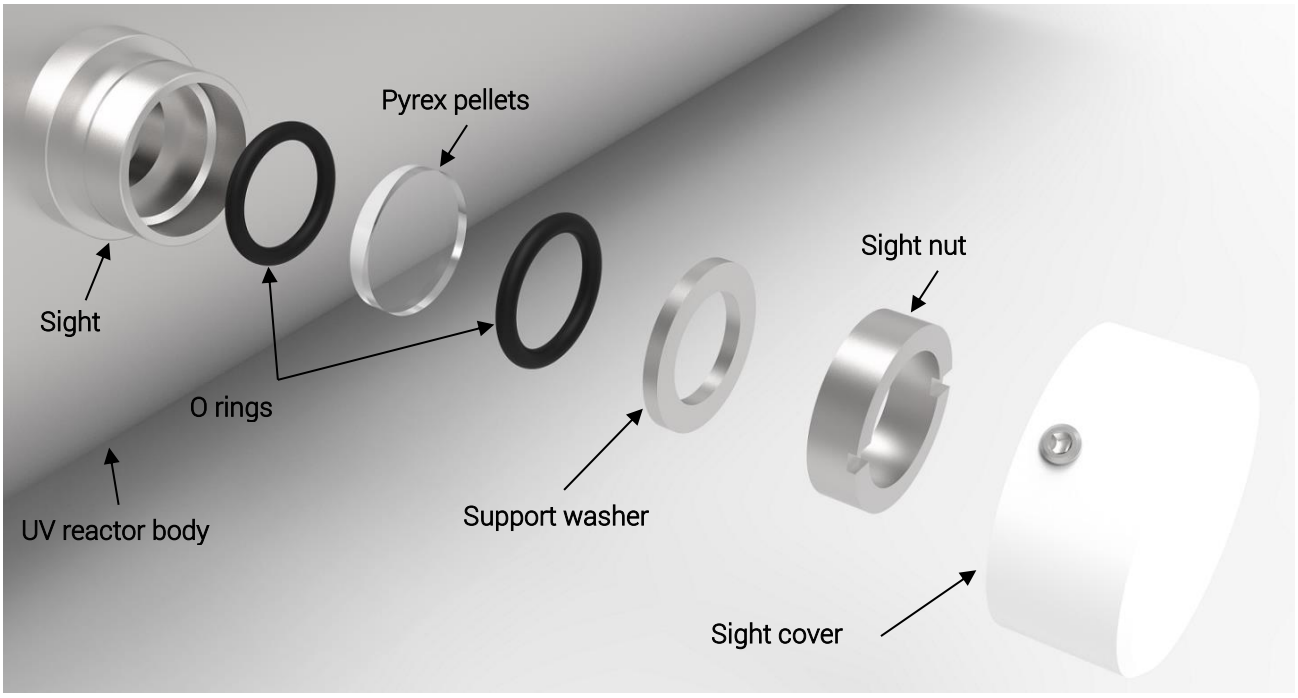


4. Replacement or cleaning of the UV sight:

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)
Defective UV lamp	Exceeded lifetime	Replace lamp
	Bad connexion	Check connection
	Defective ballast	Replace ballast
	Faulty power supply	Check the 230V 50Hz power supply
	Water infiltration in the quartz	Check the quartz, seal and replace the lamp

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: