POOLSANA

Pool & Sauna Discount since 2005

Installation and Operating Instructions

PROFI 75W Stainless Steel UV-C Sanitizer



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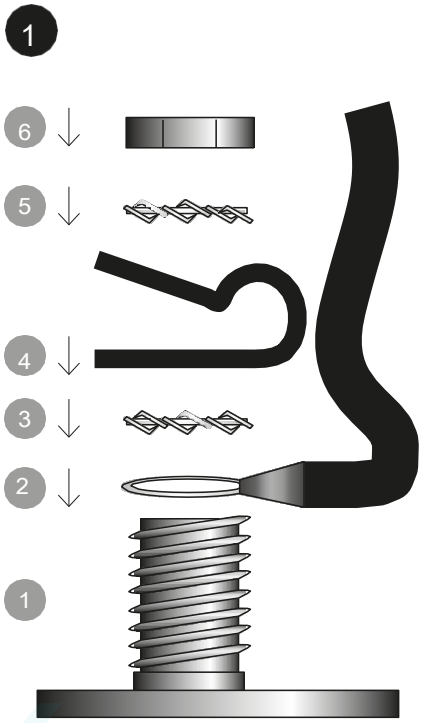
OPERATING PRINCIPLE

This unit uses a UVC lamp to generate radiation with a wavelength of 253.7 nm. This radiation has a lethal effect on bacteria, viruses, algae, and mold (including Legionella and Cryptosporidium). UVC radiation ensures clean, fresh, and clear water in an efficient and environmentally friendly manner. The water is pumped through the UVC unit. The UVC radiation neutralizes bacteria, viruses, and other microorganisms and prevents their reproduction. Suspended algae are also destroyed by this radiation, significantly improving the clarity of the water. The UVC unit is equipped with an electronic transformer. This transformer ensures optimal lamp performance.

Thanks to this UVC unit, the water is disinfected efficiently and safely, resulting in excellent water quality. An overdose of UVC is not possible.

INSTALLATION GROUNDING

1) Before mounting the plastic strain relief (4) on the grounding screw (1), first thread the cable (2) through the strain relief (4). Position the strain relief (4) approximately 10 cm away from the eye (2) of the grounding cable.
2) Place the ring terminal (2) of the cable over the grounding screw attached to the housing.
3) Then place the toothed spring ring (3).
4) Secure the strain relief (4) so that a loop with a diameter of 5 cm is formed.
5) Place the last and second toothed spring ring (5) and the lock nut (6) on the grounding screw.
6) Once the parts have been placed on the grounding screw in the correct order, they can be tightened with an 8 mm ring spanner.



ATTENTION:
Always ensure proper grounding. If you have any doubts about whether the device or electrical installation is properly grounded, please contact a qualified electrician.
Improper grounding can be dangerous and/or lead to corrosion of stainless steel or aluminum.

Make sure the device is grounded!

It is not permitted to run a liquid through the reactor or to add substances to the water that could have a negative effect, such as corrosion or degradation of the material used. This is to prevent dangerous situations and damage to the reactor and subsequent installation, as well as harm to fauna and flora.

DEVICE INSTALLATION

Determine the desired location for mounting the unit. The best place to install a UVC unit is immediately after filtration. See also the schematic diagram in the user manual. Ensure that there is always sufficient water flow while the lamp is on. Do not install the unit in direct sunlight. Always install the unit in a dry and well-ventilated area. The unit can be mounted either horizontally or vertically, as long as the water flow is always from bottom to top (see diagram in the user manual). Sufficient space must be left at the lamp connection (approx. 30 cm) for any maintenance work. There should be at least 1 meter of space on the side of the lamp slot to allow the lamp (6) to be easily removed or replaced.

CAUTION: To prevent damage, all connections and couplings must be tightened by hand only—that is, without using tools such as wrenches.

1) Unscrew the nut (N) from the housing (U). Remove the UV-C lamp (K) from the included sleeve (see packaging) and carefully insert the lamp into the quartz glass
(M). Insert the lamp (K) with the contact pins into the lamp fitting (L) and then screw the nut (N) back onto the housing (U).

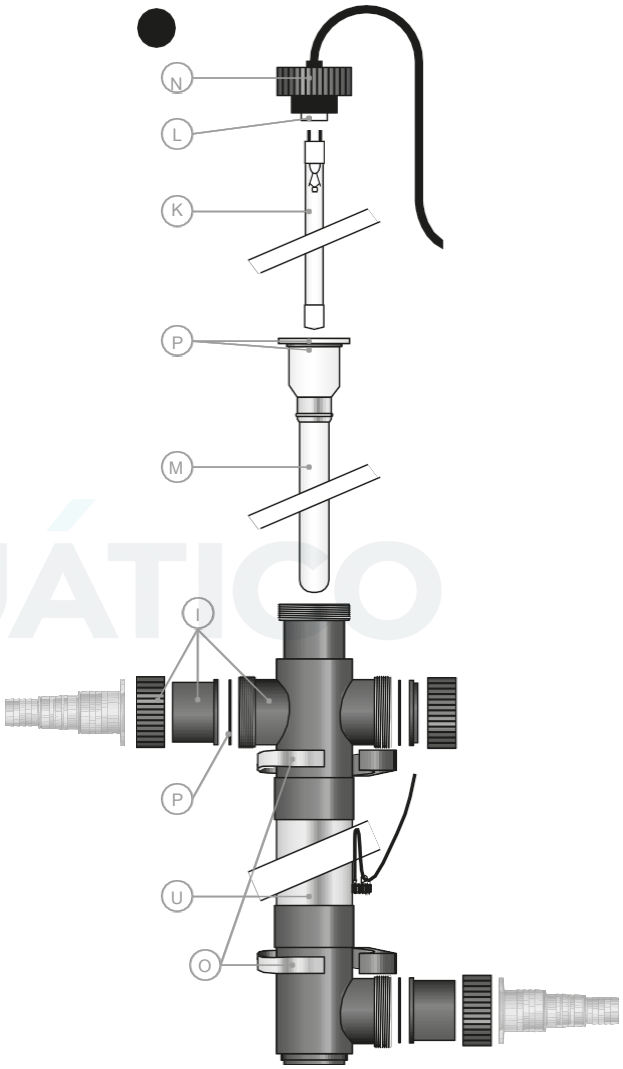
2) Install the pipe clamps (O) included in the delivery. Then place the device in the pipe clamps. Tighten the three-piece coupling (I). Be sure to ensure the correct positioning of the sealing rings (P) at the connections as well as on the quartz glass (see Figure 2)

3) Install the unit using the three-piece coupling (I). The adhesive connections of the three-piece coupling have a diameter of 63 mm or 2". A hose adapter can also be used.

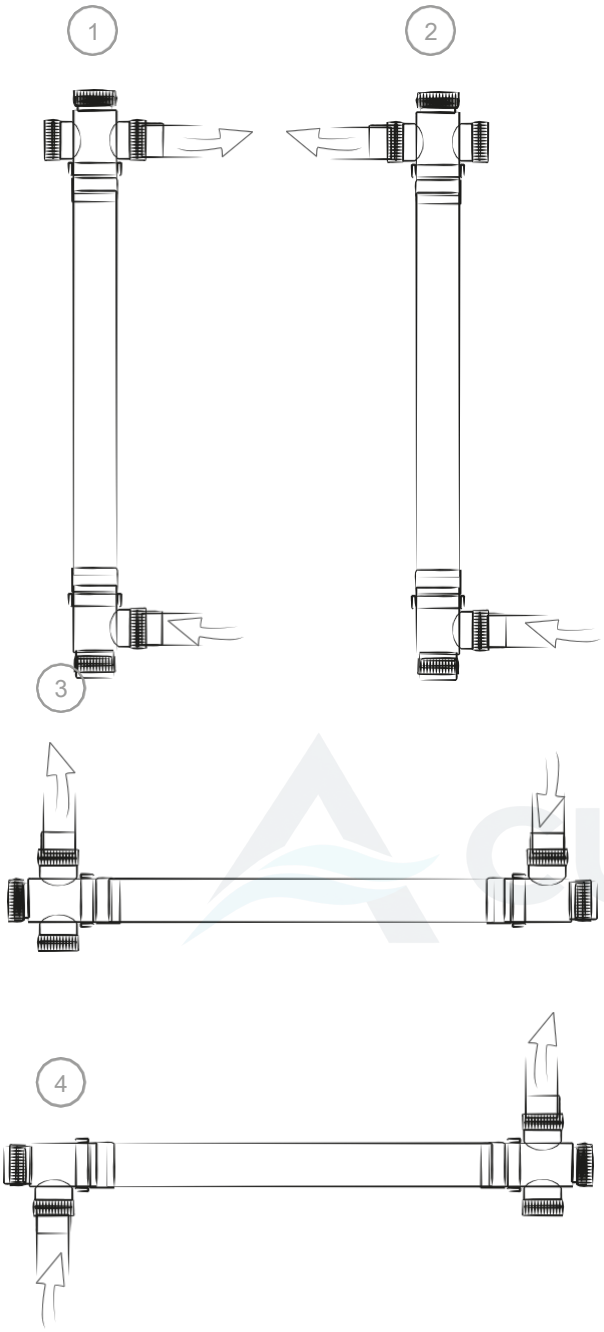
4) Plug the power cord of the UVC lamp into a grounded outlet protected by a ground fault circuit interrupter (GFCI).

5) The transparent connectors allow you to visually check whether the light bulb is currently on.

6) The device turns off as soon as the power is disconnected.



CONNECTION OPTIONS:



ATTENTION: When installing horizontally, the water outlet must always point upward.

MAINTENANCE / REPAIR

Always disconnect the unit from the power supply before performing maintenance or repair work. The unit must be cleaned at least twice a year. If algae growth or limescale buildup in the unit increases, the quartz glass (M) must be cleaned.
The special lamp should be replaced no later than the end of the recommended operating life.
The inside of the reactor chamber can be cleaned using a soft brush.

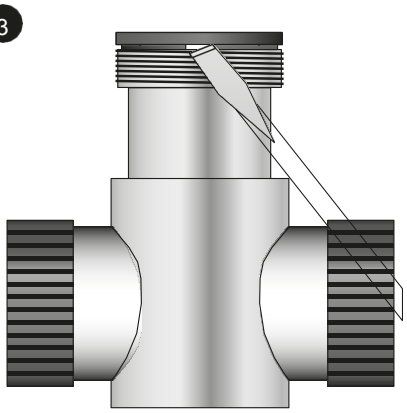
1) Drain the water from the unit
2) Unscrew the nut (N) and remove the bulb (K) from the socket (L). Remove the bulb from the quartz glass and replace it (K) if necessary. Caution: Fragile glass materials.
3) Carefully remove the quartz glass (M)—see Figure 3. Never use force! CAUTION: Always wear protective gloves and safety goggles.
4) Clean the quartz glass carefully—descale it if necessary. Limescale is often only visible on dried glass. Use a soft cloth to avoid scratches.
5) Carefully replace the quartz tube (M) (see Figures 3 and 4). Gently slide the end of the quartz tube into the mounting bracket (Q).
6) Reinstall the quartz tube and lamp in the housing. Place the O-ring (T) back on the quartz tube and connect the light source (K) in the lamp holder (L). Screw the nut (N) back onto the housing.

If the housing or transformer needs to be replaced, the ground connection must first be disconnected from the housing. When installing a new housing or transformer (electrical component), please first read the main section on Installation and Disassembly. Make sure to keep all small ground connection parts

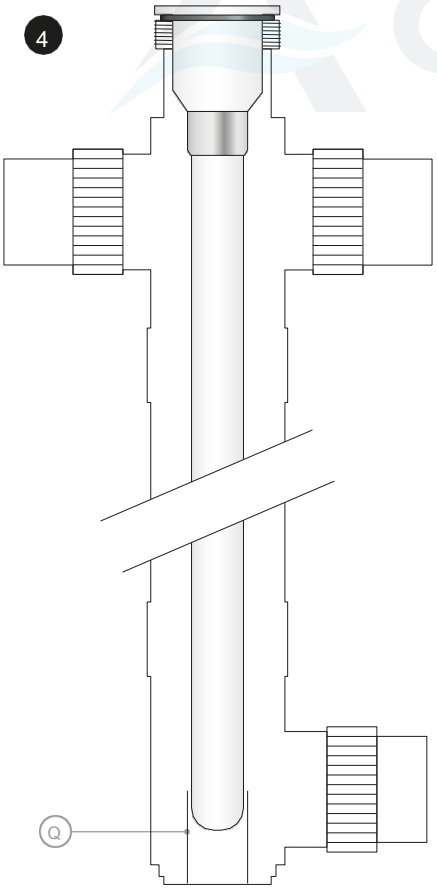
. These are not included with replacement parts such as the housing or transformer. If in doubt, please consult a certified electrician.

For safety regulations and warranty conditions, please refer to our general UVC instructions.

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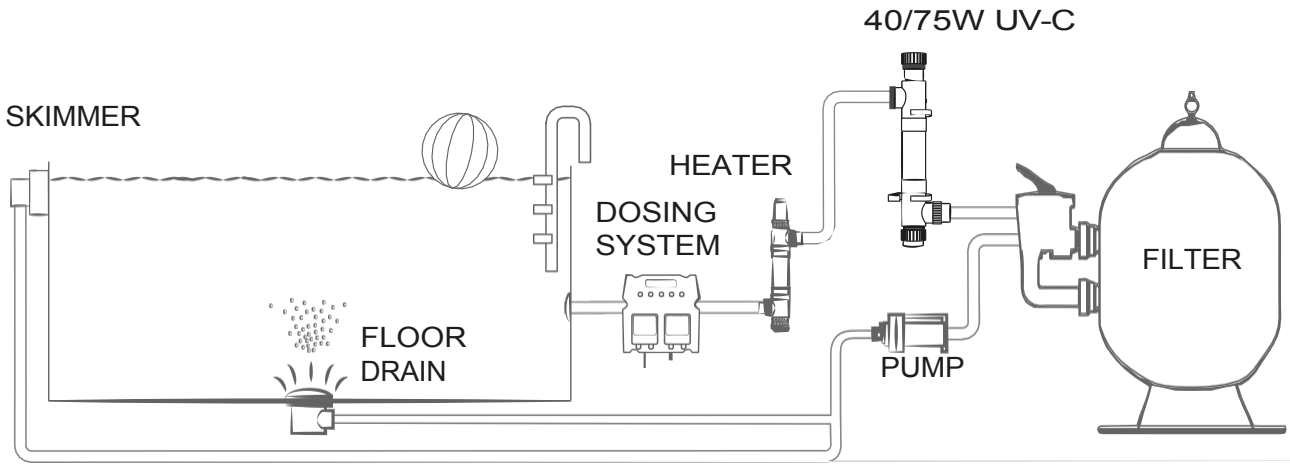


DISPOSAL

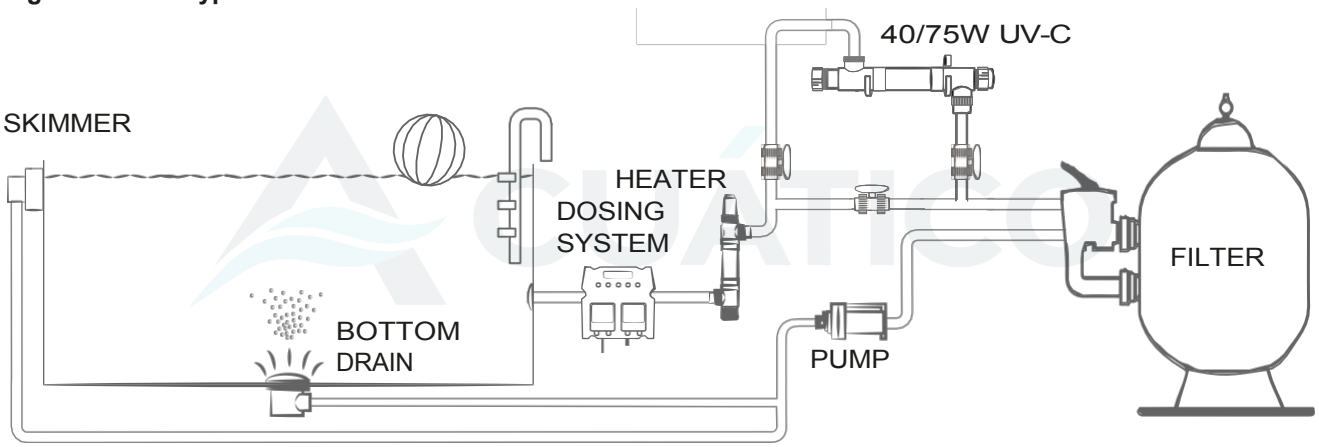
Disposal must not be carried out via regular household waste but must be done through a municipal collection point. You can find out the location of the nearest collection point through your city or municipal administration.

WIRING DIAGRAM

Direct integration into the filter circuit:



Integration via a bypass:



TECHNICAL SPECIFICATIONS

	40W	75W
Power	40 watts	75 watts
Maximum service life*	9,000 h	9,000 h
For tanks with a max.	40,000 L	70,000 L
Max. permitted flow rate	23,000 L/h	23,000 L/h
Max. operating pressure	2 bar	2 bar
Recommended water flow rate	11,000 L/h	16,000 L/h

*We recommend replacing the lamp every 1–2 years, even if it is not yet defective or has not yet reached its maximum service life, as the UV intensity—and consequently the disinfecting effect—decreases significantly over time.

TROUBLESHOOTING

Problem	Solution
The lamp no longer lights up	There is a small safety switch on the lamp socket of the UV disinfection unit, which is activated by pressing it down as soon as the UV-C lamp, including the lamp socket, is fully inserted into the housing of the UV disinfection unit. This prevents the UV-C lamp from turning on as long as it is not inside the housing.  First, please check whether the safety switch is properly engaged. If the problem persists, the current flow can be measured at the opposite pins of the lamp socket. After manually pressing the safety switch, a voltage change should be detectable for approximately 1–2 seconds. If no voltage change is present, the ballast is likely faulty. If a voltage change is detectable, the UV-C lamp is likely faulty or has reached its service life limit.
RCD trips	Simply connect the ballast (without the UV-C lamp) to the power supply. If the RCD trips as a result, or after manually pressing the safety switch, the ballast—including the lamp socket—is likely the cause of the problem. If the RCD does not trip, the UV-C lamp can be inserted into the lamp socket. If the RCD trips after manually pressing the safety switch, the UV-C lamp is likely affected or has reached its wear limit.

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We hope you enjoy with your UV device!



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