



AquaForte filters are carefully tested and certified to ensure both safety and operating performance. Failure to follow the instructions and warnings in this manual may result in filter damage or serious injury. Be sure to read, thoroughly understand, and save this manual for future reference.

INSTRUCTIONS

1. The filter has been designed to be used outdoors, but it does not have to be submerged.
2. Do not plug-in or otherwise use this product if any part of it appears to be damaged or operates abnormally. Have the product examined and repaired, if necessary, by a qualified electrician.
3. Make a “drip loop” on the electrical cord connecting the filter to the plug by letting a portion of the cord hang lower than either the filter or the plug.
4. This product is designed to be permanently wired to a mains supply housed in a dry, weatherproof enclosure. This appliance must be earthed.
5. Always disconnect the plug from the outlet before any maintenance or troubleshooting is performed.
6. Avoid the bulb overheating, switch it off when there is no water inside the filter.
7. Avoid the direct contact with UV-C light which can be harmful to your eyes and the skin.

INSTALLATION

1. Choose a suitable place to install the filter. You can partially bury the bio-filter while keeping it in an upright and level position. The filter can be buried in the ground up to the filter clips. (See figure 1)
2. Connect your pump to the filter tubing connector marked by the “arrow in” symbol with flexible hose. Attach the tubing to the filter's connector marked by the “arrow out” symbol back to the pond. You should use stainless steel clamps to create a water tight seal at all of your tubing connection (filter and pump). (See figure 2)
3. The correct functioning of the UV-C bulb is indicated by the lighting visible on the top of the outer lid. (See figure 3)
4. After submerging the pump in water, plug it to check both the pump and bio-filter performance.

MAINTENANCE

1. Your filter is designed to let you know when filtration performance declines. Your filter is equipped with a color-coded pressure indicator located on the container lid. When your filter is operating effectively, the pressure indicator will display green. If flow rate within your filter drops, performance also declines and the pressure indicator will display RED. (See figure 3)
2. The filter can be opened and the individual filter component can be cleaned and washed manually. Unlatch the clips and remove the container lid.
3. Wash the filter sponge with clean tap water. The bio-ball should only be cleaned if they are highly contaminated and you should only use pond water to preserve the microorganisms and keep the filter biologically active.
4. When reassembling the device, make sure the O-ring is correctly positioned for a watertight seal (See figure 4). If the seal is out of place or missing there will be significant leakage when filter is operating.

CHANGING THE BULB

If the algae proliferate, it is necessary to check the correct functioning of the UV-C bulb.

1. To change bulb, first unplug the pump and bio-filter from its power source. Rotate the lid cover, until the arrows on the lid cover aim at the arrow on the ring holder (See figure 5). Remove the lid cover from the top of container lid (See figure 6). Unscrew the UV light assembly counterclockwise and gently lift out (See figure 7). Allow UV light assembly and light bulb to cool and dry completely before handling. Once cool and dry, grip the base of the bulb with a dry cloth and gently pull the bulb from the assembly unit (do not pull on the bulb by gripping the glass element) (See figure 8). Slide new bulb into place until properly seated. Do not test UV light until the filter has been completely reassembled.
2. The quartz glass tube around the UV-lamp is sensitive for calcium deposits which will inhibit the performance of the UV-C lamp. Clean the quartz glass tube with a mild lime scale remover (like cleaning vinegar). Then reassemble all the parts making sure that the o-rings and gaskets are correctly placed (See figure 10).

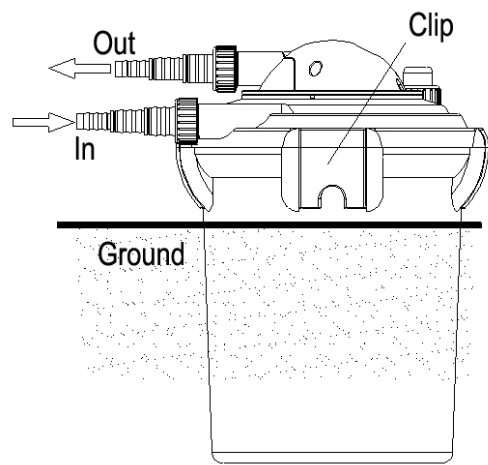


Figure 1

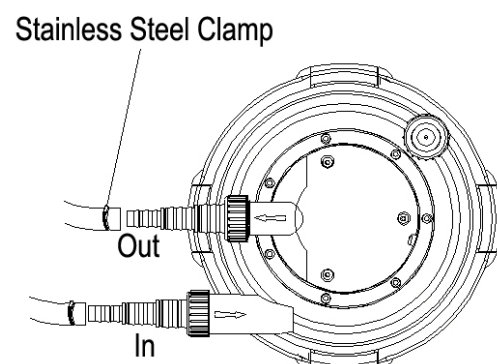


Figure 2

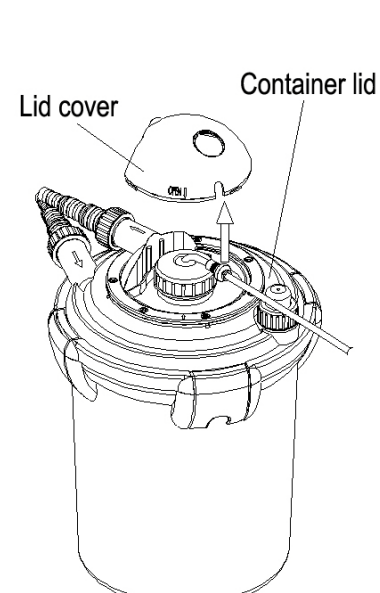


Figure 6

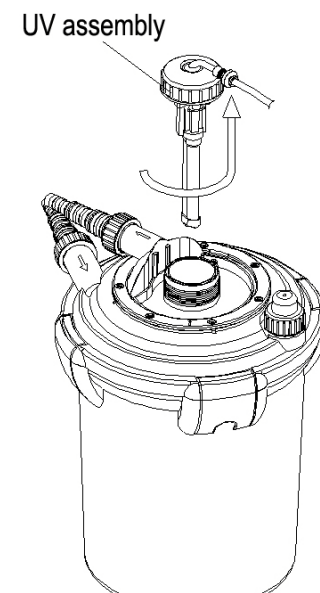


Figure 7

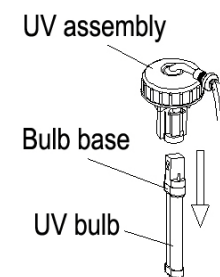


Figure 8

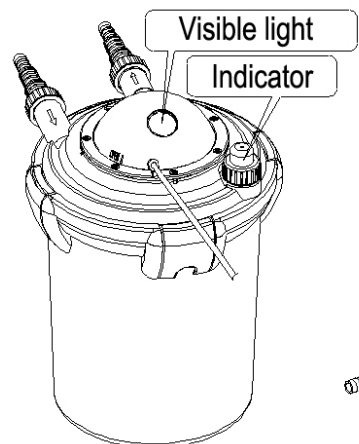


Figure 3

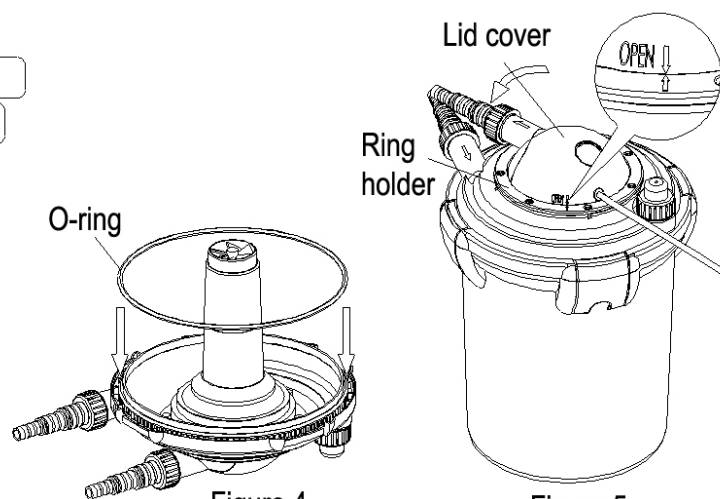


Figure 4

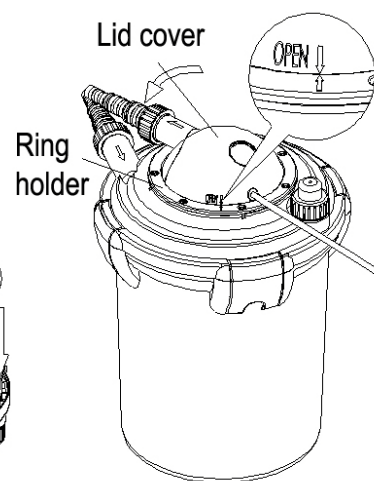


Figure 5

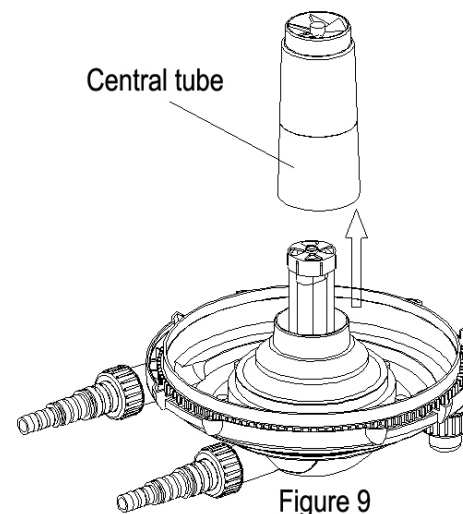


Figure 9

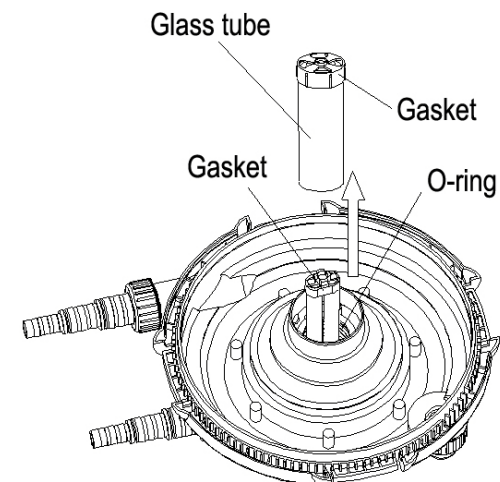


Figure 10