



Bio Pro Pressure Filter with UV Owner's Manual



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BIO PRO 3000, BIO PRO 4000 UV FILTER

OWNER'S MANUAL

Bio Pro 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 and is not submersible.
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 plugged into a mains supply, housed in a dry, weatherproof enclosure. This appliance must be grounded.
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.
8. Cleaning the filter is easy! You simply return the handle and the machine will self-clean and continue its good work.
9. The hose tail on the exit of the filter allows you to monitor easily and safely when the UV lamp is operating

the date of manufacture. ANJON liability under this warranty shall be limited to repairing or replacing, at ANJON's discretion, without charge, F.O.B. ANJON will not be liable for any cost of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by ANJON are subject to the warranty provide by the manufacturer of said product(s) and not by ANJON's warranty. ANJON will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with ANJON's printed installation and operating instructions.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of ANJON's products from which it was purchased together with proof of purchase and installation date, failure date, and supporting installation data. Unless otherwise provided, the distributor or dealer will contact ANJON or an authorized service station for instructions. Any defective product to be returned to ANJON or a service station must be sent freight prepaid: documentation supporting the warranty clam and/or a Return Material Authorization (RMA) must be included if so instructed. In the absence of suitable proof of purchase date, the effective date of this warranty will be based upon the date of manufacture.

Any replacement product may be either new or like-new, provided that it has functionality at least equal to that of the product being replaced. No requests for service under this warranty will be accepted if received more than 30 days after the term of the warranty. Correction of defects, in the manner and for the duration of the warranty described in this warranty, shall constitute complete fulfillment of all liabilities and responsibilities of ANJON to the user with respect to the product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. Except for the obligations specifically set forth in this warranty, in no event shall ANJON be liable for direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory and whether advised of the possibility of such damages.

ANJON reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such a change or improvement.

THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PRUPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE EXCEPT AS EXPRESSLY HERIN PROVIDED THE GOODS ARE SOLD "AS IS", THE ENTIRE RISK AS TO QUALITY AND FITNESS FOR A PARTICULAR PURPOSE, AND PERFORMANCE OF THE GOODS IS WITH THE BUYER, AND SHOULD THE GOODS PROVE DEFECTIVE FOLLOWING THER PURCHASE, THE BUYER AND NOT THE MANUFACTUREER, DISTRIBUTOR, OR TERTAILER ASSUMES THE ENTIRE RISK OF ALL NECESSARY SERVICING AND REPAIR.

Some jurisdictions do not allow the exclusions or limitation of incidental or consequential damages and some jurisdictions do not allow limitations on how long implied warranties may last or require you to pay certain expenses as set forth above. Therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdictions to jurisdiction.

LIMITED WARRANTY

Products manufactured by ANJON are warranted to the original user only to be free of defects in material and workmanship for a period of 24 months from the date of purchase, but not more than 30 months from

filtration stage. There are two phases in the mechanical filtration stage-coarse and fine filtration. Each phase uses a specially designed foam sponge to effectively remove all sizes of unwanted debris

2. Stage 2 – Biological Filtration

The biological filtration stage begins when water reaches the bottom of the filter. This stage uses bio-balls providing a habitat for beneficial bacteria to grow. These bacteria naturally convert harmful ammonia and other wastes into healthy nitrates that fertilize aquatic plants and support a healthy pond environment.

3. Stage 3 – UV Filtration

The final filtering stage uses an Ultra- Violet (UV) light located in the middle of your filter. Exposure to the UV light kills algae as the water passes upward through the filter on its way back to your pond.

INSTALLATION

1. Choose a suitable place to install the filter. You will need to dig a six inch deep channel. This channel will allow you to bury and conceal the tubing once connected. You will also need to create a hole to 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 symbol in arrow with flexible hose. Lay the hose in the channel. Attach the tubing to the filter's connector marked by the symbol out arrow and lay it in the channel leading to the upper pond basin. You should use stainless steel clamps to create a water tight seal at all of your tubing connections (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.

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How does it work

1. Stage 1-Mechanical Filtration

Water is pumped into the filter creating the necessary pressure to begin the mechanical

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 the 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-balls 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 the 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. If the bulb works correctly the glass quartz tube where the bulb is placed must be cleaned, make sure the appliance is switched off (pump and bulb).Open the container lid, remove the central tube which connect to the lid (See figure 9), extract the glass tube, remove possible calcareous deposits on the tube using a suitable product. Then reassemble all the parts making sure that the O-rings and gaskets are correctly placed.

