

FLUVAL[®]

NANO



**Instruction
Manual**

**Gebrauchsin-
formation**

**Mode
d'emploi**

**Gebruiksaan-
wijzing**

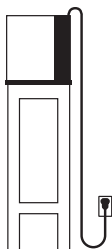
**Manual de
instrucciones**

CONGRATULATIONS on your purchase of the Fluval Nano Aquarium Filter. For a complete understanding of the filter's operation and capabilities, please read carefully and follow these instructions. Be certain to read the SAFETY INSTRUCTIONS before using your filter.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To guard against injury, basic safety precautions should be observed, including the following:

- 1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- 2. DANGER** -To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.
 - A.** If the appliance shows any sign of abnormal water leakage or if RCD (or GFCI- Ground Fault Current Interrupter) switches off, disconnect the power supply cord from mains and remove the filter pump from water.
 - B.** Carefully examine the appliance after installation. It should not be plugged if there is water on parts not intended to be wet.
 - C.** Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or it is dropped or damaged in any manner. The power cord of this appliance cannot be replaced; if the cord is damaged, the appliance should be discarded. Never cut the cord.
 - D.** To avoid the possibility of the appliance plug or receptacle getting wet, position the appliance to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop" (see illustration 1) should be arranged by the user for the cord connecting appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle or the connector if an extension cord is used, to prevent water travelling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect



(illustration 1)

the fuse or circuit breaker that supplies power to the appliance.

Then unplug and examine for presence of water in receptacle.

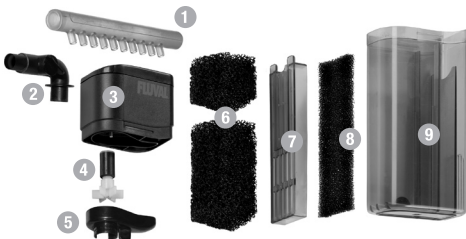
3. **WARNING** - Close supervision is necessary when any appliance is used by or near children. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
4. To avoid injury, do not touch moving parts or hot parts.
5. **CAUTION** – Always unplug or disconnect all appliances in the aquarium from electricity supply before placing hands in water, before putting on or taking off parts and whilst the equipment is being installed, maintained or handled. When inserting or removing the filter pump from the water, always pull out the main electricity plug. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect. Always unplug an appliance from an outlet when not in use.
6. This is an aquarium filter pump. Do not use this filter pump for other than intended use (i.e.: do not use in swimming pools, bathrooms, etc.). The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
 - Do not use this filter pump in swimming pools or other situations where people are immersed.
 - This filter pump is suitable for use in water temperatures up to 35 °C.
 - Do not use this filter pump with inflammable or drinkable liquids.
7. This filter pump is suitable for Indoor Household Use Only.
8. Use only with fresh water. Not for use in salt water aquariums.
9. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
10. Make sure that the filter pump is securely installed before operating it. Do not allow pump to run dry. The filter pump must be immersed in water completely. This filter pump must never operate outside of water.
11. If an extension cord is necessary, a cord with proper rating should be used. A cord rated for less amperes or watts than the appliance rating, may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
12. For the complete use and understanding of this product it is recommended that this manual is thoroughly read and understood. Failure to do so may result in damage to this product.

(For North America only)

13. This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

SAVE THESE INSTRUCTIONS

PARTS DIAGRAM

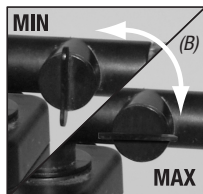
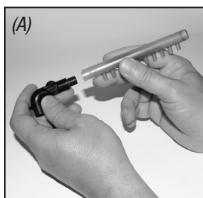


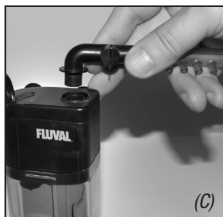
- | | | |
|------------------------------|-----------------------------|--------------------------|
| 1. <i>Spray Bar</i> | 4. <i>Magnetic Impeller</i> | 7. <i>Foam Cartridge</i> |
| 2. <i>Flow Control Elbow</i> | 5. <i>Impeller Cover</i> | 8. <i>Fine Foam Pad</i> |
| 3. <i>Motor housing</i> | 6. <i>Bio-Foam</i> | 9. <i>Filter Case</i> |

INSTALLATION and USE

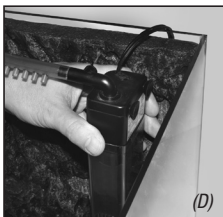
WARNING: Disconnect the plug of all aquarium appliances before placing your hands into the aquarium water and / or performing any maintenance of any kind. Do not plug filter in until setup is complete and aquarium is filled with water.

1. Unpack and identify all parts. Use the parts diagram as a guide.
2. Rinse the filter case, Bio-Foam and Fine Foam Pad in tap water.
3. Attach spray bar onto flow control elbow. **(A)** **Note:** Adjust the water flow rate by rotating the flow control knob. **(B)** The spray bar is multi-directional so water output can be directed as needed.
4. Install the assembled piece onto the filter. **(C)**
5. Place filter on the right rear area of the aquarium.





(C)



(D)

6. Press firmly to ensure the suction cups are holding it securely in place. (D)

WARNING: ALWAYS DISCONNECT APPLIANCES IN THE AQUARIUM FROM THE ELECTRICAL SUPPLY BEFORE PLACING HANDS IN THE WATER, BEFORE PUTTING ON OR TAKING OFF PARTS, AND WHENEVER THE FILTER EQUIPMENT IS BEING INSTALLED, MAINTAINED OR HANDLED.

Following a routine maintenance schedule will result in a healthier aquarium and extend the life of the filter. For best results, please follow our maintenance schedule recommendations.

HOW TO CARE FOR THE FILTER MEDIA

IMPORTANT: Do not replace all filtration media at the same time. Alternate foam changes so that some older ones remain in use. This ensures the re-seeding of beneficial bacteria, so that colonies discarded with older media will be replaced by vigorous new ones. To enhance bacterial action, pour a dose of **Nutrafin Cycle**, a Biological Aquarium Supplement onto your filter media each time you change it.

Media	Purpose	Maintenance	Replacement
Bio-Foam A456	Captures debris and houses nitrifying bacteria	Rinse monthly	3-6 months
Fine Foam Pad A457	Traps small debris	Rinse monthly	3-6 months
Carbon Cartridge A458 (available separately)	Effectively adsorbs odors, discolorations and impurities	N/A	2-4 weeks

Do not use tap water as this will kill the beneficial bacteria in your foam. NEVER use soap or detergents as these products could be harmful to the inhabitants of your aquarium. Note: See Carbon Cartridge packaging for replacement instructions.

How to Replace Filter Media

1. Unplug the filter and remove it from the installation.
2. Separate the filter case from the motor housing. (E)
3. Remove the Bio-Foam from the filter case and place in an empty bucket. (F)

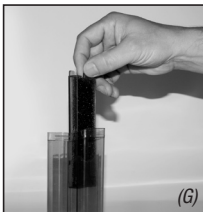
- Slide the foam cartridge out of filter case, remove the Fine Foam Pad from cartridge and place in an empty bucket. (G)
- Rinse Bio-Foam or Fine Foam Pad using water taken from the aquarium or replace following the recommended replacement schedule.

HOW TO CARE FOR THE IMPELLER AND MOTOR

The impeller and impeller well (where the impeller is located) should be cleaned at least once a month, more often if necessary. The impeller well has an effective self-cleaning feature. However, it is recommended that you remove the motor and inspect the impeller as part of your routine maintenance. Keeping the impeller clean lengthens its life and the life of the motor.

Cleaning the Impeller:

- Unplug the filter and remove it from the installation. (E)
- Separate the filter case from the motor housing. (E)
- Remove impeller cover. (H)
- Grasp the blades of the impeller fan to pull out the impeller. (I)
- Thoroughly clean the impeller and the impeller well to remove slime, dirt or debris. **NEVER use soap or detergents as these products could be harmful to the inhabitants of your aquarium.**
- Place the impeller back into the impeller well. Replace the impeller cover, and then re-attach the filter case to the motor housing.



REPLACEMENT PARTS

Item	Item Number
Impeller	A-15002
Motor	A-15000

To register your warranty on line or for more information on this and other products go to www.hagen.com.

2 YEAR WARRANTY

The Fluval Nano Aquarium Filter is guaranteed against defects in material or workmanship under normal aquarium usage and service for 2 years. We offer a 2 year guarantee on all non-replaceable parts which means that the filter will be repaired or replaced at the manufacturer's discretion, free of charge, when the complete pump is returned with proof of purchase and postage paid. This warranty does not apply to any filter that has been subjected to misuse, negligence, or tampering. No liability is assumed with respect to loss or damage to livestock or personal property irrespective of the cause thereof.

FOR AUTHORIZED GUARANTEE REPAIR SERVICE:

For Authorized Warranty Service please return (well packaged and by registered post) to the address below enclosing dated receipt and reason for return. If you have any queries or comments about the operation of this product, please let us try to help you before you return the product to your retailer. Most queries can be handled promptly with a phone call. When you call (or write), please have all relevant information such as model number, age of product, details of aquarium set-up, as well as the nature of the problem.

CANADA: Hagen Industries, Consumer Repair, 3235 Guénette,
Montréal QC H4S 1N2

U.S.A.: Rolf C. Hagen (U.S.A.) Corp., 305 Forbes Blvd, Mansfield, MA. 02048

UK: Rolf C. Hagen (UK) Ltd, Customer Service Department California Drive,
Whitwood Ind Est., Castleford, West Yorkshire WF10 5QH
<http://hagen-uk.custhelp.com>

CALL US ON OUR TOLL-FREE NUMBER:

Canada only: 1-800-554-2436 between 9:00 a.m. and 4:30 p.m.
Eastern Standard Time. Ask for Customer Service.

U.S. only: 1-800-724-2436 between 9:00 a.m. and 4:00 p.m.
Eastern Standard Time. Ask for Customer Service.

U.K. only: Helpline Number 01977 556622. Between 9:00 AM and 5:00 PM,
Monday to Friday (excluding Bank Holidays).

RECYCLING

This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment. Check with your local Environmental Agency for possible disposal instructions or take to an official council registered refuse collection point. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

