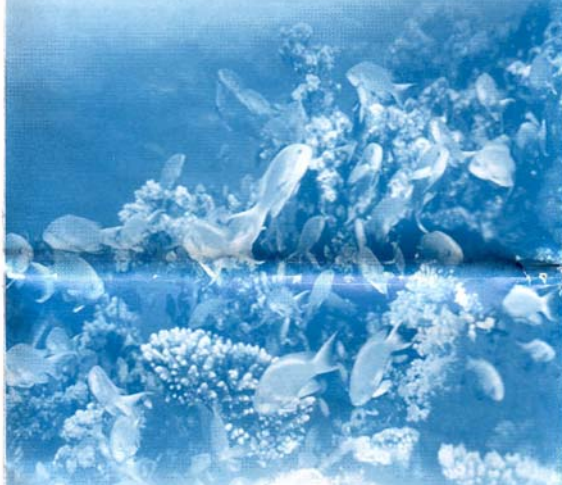


hdor[®]

flo & bioflo
DEFLECTOR AEROBIC FILTER



ROTATING WATER DEFLECTOR & AEROBIC FILTER
ROTIERENDER DIFFUSOR & AEROBEM FILTER
DEFLECTEUR ROTATIF & FILTRE AEROBIC
DEFLECTOR ROTATIVO & FILTRO AEROBICO
DEFLETTORE ROTANTE & FILTRO AEROBICO
DRAAIENDE WATERVERDELER & AEROOB FILETR

WAVE-MAKER



Fig. 1

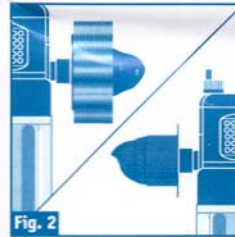


Fig. 2

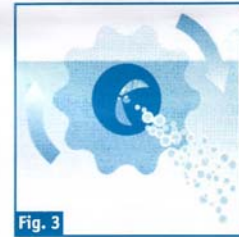


Fig. 3



Fig. 4

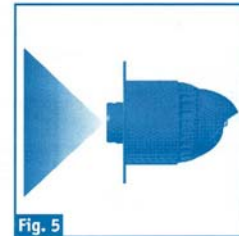


Fig. 5

What is a rotating deflector?

The deflector rotates 360° pushed by the power of the flow rate which passes through a gearing. The water then creates a pleasant wave effect moving plants and/or anemones in a very natural way. This allows to increase considerably the oxygenation.

Why a professional aerobic filter?

By adding a sponge to the rotating deflector the filtering system of your aquarium can be improved. This kind of filtration, which captures the unpleasant film from the water surface, is ideal for overpopulated aquariums.

BIOFLO's nitrification efficiency is shown in the following table in milligrams (mg) of ammonia (NH₃) removed in one hour (hr):

BIOFLO small 1.0 ±0.1 mg/hr

BIOFLO medium 2.6 ±0.2 mg/hr

BIOFLO large 3.6 ±0.4 mg/hr

FLO & BIOFLO

Dear Customer,

we thank You for choosing this quality product. Please read the following instructions very carefully for best understanding of the characteristics of this new, innovative product.

DESCRIPTION -Fig. 1-

- A Deflector body
- B Propeller
- C Support
- D Wheel
- E Deflector
- F Sponge (available with: **BIOFLO** small, medium and large)

CHARACTERISTICS

FLO is a rotating deflector which, thanks to the supplied adaptors, can be connected to the water outlet of the pump or filter operating in your aquarium. The 360° rotation is guaranteed by the force of the water flow that passes through it, with no extra energy consumption.

BIOFLO: the rotating water deflector becomes an innovative aerobic filter thanks to the sponge that captures the inactive bacteria from the water surface of your aquarium.

INSTALLATION

Before any kind of intervention, ALWAYS disconnect from electrical supply any appliance placed in the water.

In the following table you can find the ideal correspondence between flow-rate of the filter/pump installed in your aquarium and **FLO** and **BIOFLO**.

TYPE	PUMP/FILTER FLOW-RATE l/h	PUMP/FILTER FLOW-RATE gal/h
FLO	From 300 to 1200	From 80 to 310
BIOFLO Small	From 300 to 1200	From 80 to 310
BIOFLO Medium	From 400 to 1200	From 100 to 310
BIOFLO Large	From 700 to 1200	From 180 to 310

Connect the chosen product (**FLO** or **BIOFLO**) with the supplied adaptors to the outlet of the filter or the pump operating in your aquarium. The speed of rotation varies depending on the regulation of the water-flow of the filter/pump to which the product is connected -fig. 2-. For best results, **BIOFLO** should be immersed with a water level as shown -fig. 3-.

MAINTAINANCE

Regular cleaning and maintenance of **FLO/BIOFLO** will guarantee better performance and will not compromise the durability of the components. Thanks to the simple construction this operation is very easy.

To disassemble the product, once removed the sponge from **BIOFLO**, detach the deflector by pressing the white part located in the front -fig. 4-. Remove the support (C) by using a screw driver, very gently without damaging the components, as a lever. After these simple operations, all components will be disassembled and ready to be cleaned. Rinse thoroughly with lukewarm water, removing deposits if necessary with a soft brush. Do not use detergent or solvents. Reassemble everything in reverse order, making sure all components are in the correct position -fig. 1-. Before reconnecting **FLO/BIOFLO** to your filter/pump, blow inside the deflector and verify that it rotates freely -fig. 5-. Rinse thoroughly with lukewarm water the **BIOFLO** sponge and if needed change it with a new one. It is not advisable to carry out maintenance on the aerobic sponge in connection to carrying out maintenance on your aquarium filter.

Attention: Do not use detergent or solvents.

TROUBLESHOOTING...

If **FLO/BIOFLO** does not rotate check if:

- The filter/pump is connected to the mains.
- The filter/pump is damaged.
- The filter/pump is clogged or dirty making the flow-rate not sufficient to guarantee rotation.
- **FLO/BIOFLO** is dirty, thus follow the maintenance procedure.
- The **BIOFLO** sponge is blocked by leaves or debris.

GUARANTEE

This device is guaranteed for a period of 24 months from the day of purchase, against defects in material or manufacturing defects. Our guarantee does not apply to claims the cause of which is due to installation and operation faults, lack of maintenance, misuse of the appliance, effects of frost, furring and lime deposits or amateur attempts at repair work. The consumable materials and the parts subjected to wear and tear, that must be periodically replaced for normal maintenance of the device, are not included in our guarantee.

The certificate of guarantee must be completed by the retailer and is to be sent with the appliance in case of return, together with the purchase receipt recording the day of purchase.