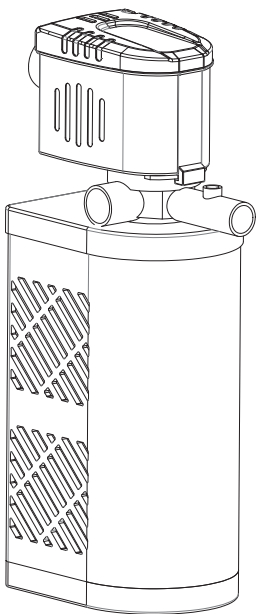


# 200\*200mm

## Instruction Manual

### Internal Filter for Aquarium

QF-088. QF-188. QF-288



Thanks for buying our pump. To ensure you use the pump safely and correctly, please read carefully and thoroughly this instruction.

Please note that we are not responsible for any failure caused by misuse or improper maintenance. Save this instruction for future use.

### Important Safety Cautions

- 1.Please operate the appliance under the rated voltage and frequency indicated on the rating label or instruction manual.
- 2.A 10mA or 30mA residual current device must be fitted to the mains supply.
- 3.The power cord is not replaceable. If the power cord or the plug is found hurt or damaged, or the plug is found aged, stop using the pump immediately. Return the pump to the retailer / distributor for disposal, or dispose it by yourself. Do not attempt to shorten the power cord, or to remove the plug. Failure to meet this point may cause damage to the pump.
- 4.If abnormal smell or noise is found to the pump, unplug it immediately and check the cause. Contact your retailer / distributor if needed.
- 5.Make sure your hand and the plug is dry when plug in or unplug the pump. It is forbidden to plug or unplug the pump with a wet hand as this might cause electric shock.
- 6.Unplug the pump before installation and cleaning. Don't pull the power cord abruptly. To unplug, grasp the plug and pull it out from the receptacle.
- 7.Protect properly the pump. If severe collision happens to the pump, check if there is any damage. If there is any breakage, stop using the pump and destroy it.
- 8.Do not let the pump run dry as this will damage the rotor and will cause over-heating of the motor.
- 9.Do not operate or leave the pump in freezing conditions.
- 10.Do not use the pump in inflammable or corrosive liquids. The pump should work in the environment less than 35 °C (95°F).

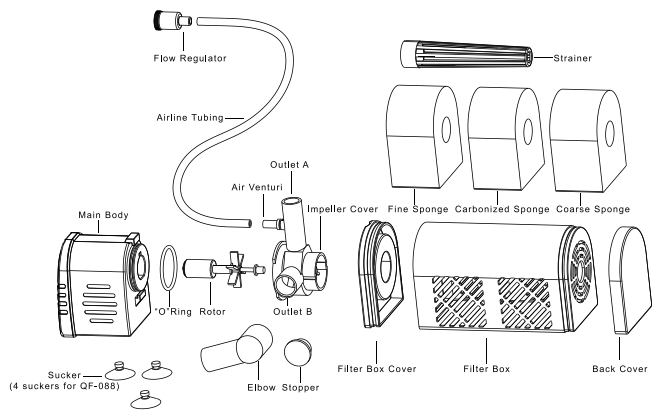
### Installation

- 1.Take out the pump and the accessories from the package. Make sure there is no part missed.
- 2.Press fit the filter box to the impeller cover.
  - There are 3 layers of filtration in the box: coarse sponge, carbonized sponge, and fine sponge. Make sure the sponges are placed in the right order.
  - Rinse the sponges with clean water before installation.

**Caution – For the carbonized sponge, do not squeeze as this will cause the carbon attached to the sponge to drop off. Only rinse with clean water.**

- 3.If you want to increase oxygen supply in the aquarium, take off the cap on the air venturi, fit the airline tubing to the air venturi. Make sure the fitting is tight.
- 4.Attach the airline tubing to the power cord with the X shape clip.
- 5.The air flow is adjustable by turning the regulator at the end of the airline tubing.
- 6.There are 2 outlets for this pump. If you want water to come out in 2 directions (usually to get the best water circulation), take off the stopper from outlet B.
- 7.This pump comes with an elbow to change the direction of water flow. Fit the elbow either to outlet A or outlet B and adjust to the desired direction.
- 8.Press to fix the pump to the glass of the aquarium with the suction cups and plug in to power supply.

### Product Structure Diagram



### Maintenance

This pump is free from lubricants or special maintenance. However, to keep the pump operates in the best condition, regular maintenance and cleaning is needed.

#### To clean the pump,

- 1.Take off the air tubing from the air venturi.
- 2.Remove the impellor cover by turning left or right to release the lock. Gently pull away the impeller cover from the motor body.

- 3.Carefully take out the impellor/rotor assembly.
- 4.Wash out all of the components in clean water. Do not use detergents or other chemical cleaners.
- 5.Reassemble the pump in the reverse order.

**-Clean the pump at least once a month. More frequent cleaning might be needed depending on the water condition.**

**-For wearing parts like the impellor kit, approach the local retailer / distributor for replacement. You need to pay for the wearing parts if the pump has been used for over 1 year.**

#### To clean the filter media (the sponges),

Simply take off the filter box from the pump, take out the sponges and rinse with clean water.

The frequency of cleaning depends on the condition of the water in the aquarium. It is highly recommended to do the cleaning every 2 weeks.

#### Frequency to change the filter media

COARSE SPONGE - Recommend to replace once every 2 months.

CARBONIZED SPONGE - Recommend to replace once every month.

FINE SPONGE - Recommend to replace once every 2 months.

### Troubleshooting

#### The pump doesn't pump water

- The pump is not started up.
- The power doesn't match the voltage and frequency specified on the pump.
- Water inlet or outlet is blocked.
- Impellor or rotor is damaged.
- Water flow is reduced**
- The voltage is lower than the rated.
- Water inlet or outlet is partially blocked.
- Wastes are accumulated in the filter sponges.

#### The pump is noisy

- Water inlet is partially blocked.
- Water level is lower than the inlet of the pump. Air enters into the pump to cause noise.
- Rotor is worn (need to be replaced)

Seek for your local retailer / distributor's help if the above troubleshooting can't resolve the problems.

| MODEL  | FREQ./VOLT.         | POWER | MAX FLOW | MAX HEAD HEIGHT |
|--------|---------------------|-------|----------|-----------------|
| QF-088 | 220V/50Hz 120V/60Hz | 3.5W  | 130GPH   | 2.5ft           |
| QF-188 | 220V/50Hz 120V/60Hz | 8.2W  | 225GPH   | 4ft             |
| QF-288 | 220V/50Hz 120V/60Hz | 12W   | 300GPH   | 4.5ft           |