



AQUARIUM HANG-ON FILTER

**400-HO / 500-HO /
600-HO**



To ensure your new hang on filter is set up and running correctly, and to prevent any accidental damage or injury, please read and follow the below instructions carefully before using your product.

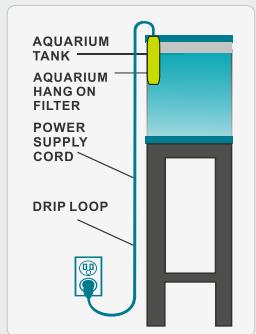
SAFETY

Important! Disconnect the mains electricity supply before attempting any installation / maintenance of any kind. Do not attempt to modify this unit in any way and only use the recommended parts for replacement.

- The hang on filter should never be run dry as this will cause the unit to overheat and cause permanent damage.
- All connections must be earthed.
- The power cord of this appliance cannot be replaced; if the cord is damaged, the appliance should be discarded. Never cut the cord.
- Do not connect to any voltage other than that stated.
- This filter is suitable for indoor household aquariums only (do not use in exterior locations, swimming pools, ponds, bathrooms etc). Do not place in liquids other than water.
- Do not use with water above 90F or 30C.
- Do not carry or pull the unit by its electrical cable.
- Do not use this unit if it has a damaged cord or plug, if it is malfunctioning or it is dropped or damaged in any manner
- Do not 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.

- Do not attempt to modify this unit in any way and only use the recommended parts for replacement.
- Before installing, maintaining or handling your equipment, or before placing your hands in your aquarium, ensure that the unit is disconnected from the electricity supply.
- Always unplug any electrical devices when not in use.
- Carefully examine your filter after installation. Do not plug in the unit to the mains if there is water on any parts not intended to be wet.

Diagram 1



- The power cable must have a drop loop to avoid any condensation build up reaching the mains (see diagram 1). If the plug does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in receptacle.
- When positioning your hang on filter, make sure the unit is securely attached to the tank before switching it on.
- If the plug or unit does get wet, DON'T unplug the cord. First, disconnect the circuit breaker or fuse that supplies power to the appliance. Next, unplug and inspect for water presence in the receptacle.

- Carefully examine your filter after installation. Do not plug in the unit to the mains if there is water on any parts not intended to be wet.
- If the unit shows any signs of water leakage, disconnect the power supply cord from the wall socket and consult All Pond Solutions or the retailer you purchased this unit from for further advice.
- If the plug or unit does get wet, DON'T unplug the cord. First, disconnect the circuit breaker or fuse that supplies power to the appliance. Next, unplug and inspect for water presence in the receptacle.
- To avoid injury, do not touch hot or moving parts such as, but not limited to, heaters, reflectors, UV bulbs or impellers.

Please note – this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided they are given supervision and instruction concerning use of the appliance and understand the hazards involved. Children must not play with the appliance. Any maintenance must not be made by children without supervision.

ELECTRIC

This unit comes complete with a generous supply of 3 core cable, however should any additional cable be required, the use of an approved waterproof cable connector with a proper rating is essential. A cord rated for less amperes or watts than the appliance rating may overheat.

Please Ensure:

- The power supply must be earthed and fused at 3amps.
- You regularly inspect the cable for damage and deterioration.
- Do not connect to any voltage other than that stated.
- You consult a qualified electrician if in doubt about any aspects of wiring.

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INSTALLATION & USE

Please read the below instructions carefully before beginning to set up your filter. **DO NOT CONNECT THE UNIT TO THE MAINS UNTIL SET UP IS COMPLETE AND UNIT IS FILLED WITH WATER.**

Important installation information:

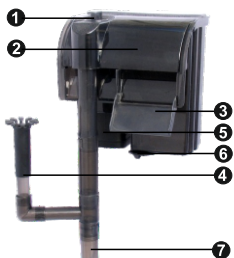
- When installing your filter, the minimum water level in the tank should be no more than 6 cm (2.25 inches) below the aquarium rim.
- The inlet pipe should **NOT** be positioned too close to an air stone, aeration device or the output valve to avoid reducing the effectiveness of the filter.

Firstly, unpack the unit and identify all parts using the parts diagram in this instruction manual.

- ➊ Remove the filter from the box. Rinse the active carbon pad(s) and sponge(s) with water from your tank and insert into your filter. **Important - do not use mains water or any cleaning products to clean your media.**
- ➋ Assemble the HO filter as per the parts diagram. When attaching the filter to your fish tank rim, adjust the balance plate so that your filter is level in your aquarium, sitting in a vertical position.
- ➌ When positioning your filter in your aquarium, ensure that the water level is high enough to submerge all inlet points and piping connections.
- ➍ Ensure all connections are clicked flush into place.
- ➎ Fill the filter body with tank water to allow the unit to prime efficiently. To avoid priming problems, ensure water level is high enough to submerge ALL inlet points and piping connections. Switch on the unit.
- ➏ Rotate the flow rate adjuster on the inlet pipe valve to increase or decrease the water intake from the filter body. For the initial start-up and to prime the filter more quickly, rotate the flow rate adjuster to maximum. Once priming has been completed, you can re-adjust the water flow rate to your desired output level.
- ➐ HO-400 and HO-600 models are supplied with a surface skimmer. Ensure the skimmer is positioned below the water level, allowing it to float freely and collect surface debris. If positioned above the water level, air will enter the system and affect performance.
- ➑ Once operating, the water will enter the unit via the inlet tube until the system is fully primed and exit via the waterfall outlet.

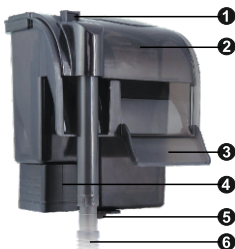
PARTS DIAGRAM

HO-400



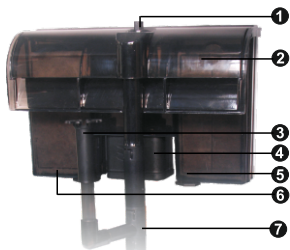
- 1 FLOW RATE VALVE
- 2 FILTER HOOD
- 3 OUTLET
- 4 SURFACE SKIMMER
- 5 MOTOR
- 6 BALANCE PLATE
- 7 INLET PIPE

HO-500



- 1 FLOW RATE VALVE
- 2 FILTER HOOD
- 3 OUTLET
- 4 MOTOR
- 5 BALANCE PLATE
- 6 INLET PIPE

HO-600



- 1 FLOW RATE VALVE
- 2 FILTER HOOD
- 3 SURFACE SKIMMER
- 4 MOTOR
- 5 LEFT BALANCE PLATE
- 6 RIGHT BALANCE PLATE
- 7 INLET PIPE

MAINTENANCE

To ensure optimal performance and that your unit functions correctly, regular maintenance is essential. Failure to do so may result in damage to your unit and may invalidate your warranty.

We recommend that a regular cleaning and maintenance schedule is followed to ensure responsible fishkeeping. Depending on water volume and stocking levels, regular cleaning of the filter media, impeller, inlet/outlet pipework during a 10-25% water change will help ensure that the product works efficiently and the aquarium remains healthy.

For further maintenance guidance, please see the table and additional information below:

	1 MONTH	3 MONTHS	6 MONTHS	ANNUALLY
Impeller	Clean & Inspect			Replace
Ceramic Shaft	Clean & Inspect			Replace
All Pipework	Clean & Inspect			
Hosing				Clean & Inspect
O-Rings	Clean & Inspect	Lubricate & Clean		Replace
Filter Sponge	Clean & Inspect		Replace	
Carbon Pad	Replace*			

* Carbon should be replaced every 2-3 months.

O-rings

It is vital that o-rings are regularly inspected and replaced as the rubber watertight seal will perish over time, which may cause your canister to leak. Before replacing your o-rings, ensure they are well lubricated.

Impeller and Shaft

A clogged impeller is often the primary cause of all filter faults, so it is extremely important to clean and inspect your impeller every month to ensure it is functioning correctly and remove any debris. Keeping the impeller clean will improve the performance of your filter and lengthen the life of the motor. The impeller itself is a perishable part and will be subject to wear and tear overtime. As a result, it is also very important to replace your impeller and ceramic shaft annually.

- 1 Switch off your filter at the mains and unplug the unit. Pour out water from inside the HO+ filter.
- 2 Remove your HO+ filter from your aquarium.
- 3 Detach the motor from the filter unit by gently twisting the motor 90 degrees to release from the filter body.
- 4 To clean the impeller, gently lift the blue impeller from the base of the motor and clear any debris or residue. When reinserted into the motor, the impeller 'fan' piece should rotate half way and stop. If it can rotate completely 360 degrees then the impeller is damaged and will need replacing.
- 5 Re-insert the motor back into the filter unit, and gently twist the motor 90 degrees to lock back into place. You should hear the motor click into place.
- 6 Return your filter into your aquarium and switch on.
Note: Handle the ceramic shaft with care as this can break very easily during the cleaning process.

Filter Maintenance

In general, it is recommended to disconnect your filter and clean the pipes, impeller and filter media monthly.

Pipework will become blocked with waste and protein slime over time, so regular cleaning using a filter stem brush is important for optimal performance.

The frequency of how often you will need to clean and inspect your unit of course will depend on a lot of factors like how dirty the water is when you first start using your filter, the volume of your water and also how many fish you have. How often you feed your fish and how long your lighting is on for will also affect how quickly your aquarium water gets dirty and will need to be taken into consideration when planning how often to clean your filter.

To clean the outside of the filter, you can periodically wipe with a damp cloth (use a cloth dampened with water from your aquarium, never use any chemical products or detergents). Lemon juice can also be used to removing any limescale build-up. Rinse thoroughly afterwards to remove any acidic residue.

Flow Rate Adjuster

Sometimes delicate fish and plants require a gentler water flow. The filter's flow rate adjuster allows you to slow the flow of water whilst maintaining filtration efficiency. When the flow rate is decreased, up to 50% of water within the filter chamber is re-filtered several times, purifying the water further and creating a clean and clear aquarium.

It is also recommended to reduce the water flow rate during feeding. This results in greater food consumption and less waste.

Filter Media

Important! Always use water from your fish tank to clean your filter media. Do not use mains water or any cleaning products to clean your media.

When cleaning filter media, **NEVER** rinse with tap water or use any soap or detergent, only your aquarium water. The best time to rinse your filter media is when doing a 10 / 20% water change as you can use this water to wash the media through.

When replacing media in your filter, do not replace more than 50% of your media at once. This is to ensure that the nitrifying bacteria present in the old media are able to repopulate in the newly added filter media.

SPECIFICATIONS

MODEL	400-HO	500-HO	600-HO
VOLTAGE	220/240v		
POWER	5W	5W	8W
OUTPUT	400L/H	500L/H	600L/H
SIZE	120x120x300mm	155x130x290mm	230x130x300mm

TROUBLESHOOTING

The Water in my Aquarium is Dirty

Causes:

- The beneficial bacteria have not yet established in your new filter.
- Your filter is not the correct size for your aquarium set up.
- You have too many fish for your size filter.
- Your filter media may be dirty.

Solutions:

- Your fish tank can take up to 3 weeks to successfully cycle. You may also want to add a bacteria start treatment to your tank to speed up this process.
- You may need to upgrade to a larger filter.
- For reference, you should allow 1 gallon of water per 1 inch of fish in your aquarium.
- Follow the instructions in the Filter Media Maintenance section above.
- If you have not yet done so, you may also need to carry out more regular water changes in your tank.

No Water is Coming Out of my Filter

Causes:

- The impeller is blocked - please refer to the impeller maintenance section above.
- There is no water in the filter body.
- The filter is not switched on.
- The inlet pipe is clogged.

Solutions:

- Use a small jug and scoop some water from the surface of your tank and pour into the filter body.
- Check your filter is plugged into the mains and is switched on.

WARRANTY

The All Pond Solutions hang on filter range is guaranteed against defects in material or workmanship under normal aquarium usage and comes with 12 months warranty for all electrical parts. The warranty period commences from the date of purchase.

If you require support on how to use your unit, replacement parts or if your filter develops a fault during the warranty period, please contact the supplier of your unit.

Non-replaceable, non-perishable and non-serviceable parts will be repaired or replaced free of charge, once the unit is returned with all components along with a valid proof of purchase and postage paid. We reserve the right to replace or repair the unit at our discretion.

Please be aware that perishable parts that are subject to normal wear and tear, such as impellers, impeller covers, motor seals and UV bulbs, are not covered by your warranty and a charge may be required for replacements of these.

This warranty does not apply to any unit that has been subjected to misuse, accidental damage, negligence, tampering or customisation. It does not apply to units which have been assembled incorrectly, improperly maintained, or where the instructions and safety information in this manual has not been followed correctly.

No liability is assumed with respect to loss or damage to livestock or personal property irrespective of the cause thereof.

Please ensure that only genuine All Pond Solutions components are used when completing a replacement or repair. Spare parts are available at our official website or from your local supplier.

Before returning your unit under warranty terms, check that all setup and maintenance instructions have been correctly followed. If you are in doubt, please contact your local aquatic retailer for further advice before returning the product. **This does not affect your statutory rights.**



www.allpondsolutions.co.uk

All Pond Solutions Ltd
Unit 203 Riverside Way, Uxbridge, Middlesex,
England UB8 2YF