

MAINTENANCE

Cleaning the pre-filter.

The Amphibious Pump has been designed to require minimal maintenance. However, if the pump is being used in its usual Submersible mode, the pump filter will require cleaning from time to time to remove any foreign matter. If this occurs the pump performance will deteriorate. Therefore:

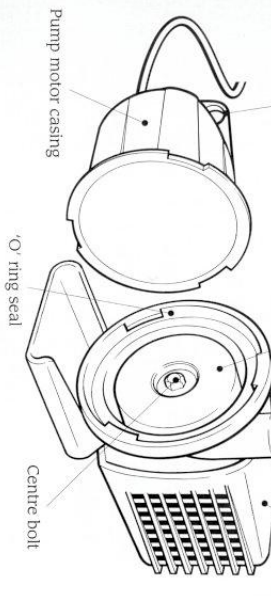
1. Isolate the electricity supply to the pump.
2. Remove the pump from the pond - **DO NOT PULL THE PUMP FROM THE POND BY ITS ELECTRICAL CABLE.**
3. Remove filter cage from pump and take out foam.
4. Wash filter foam in clean water.
5. Re-assemble in reverse order.

The Amphibious Impeller Assembly

This comprises of Impeller/Rotor, Ceramic Bearing, Centre Bolt, Thrust Washer and Sealing "O" ring. Replacement kits are available for all models in the range. It is a good idea to have a spare set especially if the pump is installed in a particularly hard water area or your pond suffers from a heavy algae content. From time to time it may become necessary as a preventative measure to de-scale the bearing assembly by following the simple procedure below:

1. Isolate the electricity supply to the pump.
2. Remove the pump from the pond - **DO NOT PULL THE PUMP FROM THE POND BY ITS ELECTRICAL SUPPLY CABLE.**
3. Remove the filter assembly which is a pull-off/push-on attachment.
4. Remove the pump motor by holding the pump case whilst turning the motor clockwise (directions indicated by arrows on both case and motor).
5. Dismantle the Impeller/Rotor assembly by undoing **LEFT-HAND THREADED CENTRE BOLT.**
6. Soak Impeller/Rotor assembly overnight in domestic kettle de-scaler (readily available from Hardware stores) carefully

Handle for safe removal of pump from water



following the manufacturer's instructions. After 12 hours gently tap out centre bearing and re-soak for a short period to remove any residue of lime or algae scale and rinse thoroughly. Repeat if necessary.

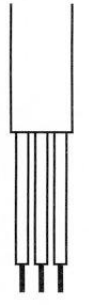
7. **WARNING** - Parts must be re-assembled in the correct order and mating surfaces must be clean.
- 7A. Fit ceramic shaft to pump housing. End with radial groove and chamfer towards pump housing.
- 7B. Slide rotor / Impeller assembly over shaft, impeller towards pump housing.
- 7C. Lay ceramic thrust washer on top of shaft, dimples facing outwards towards you, polished face towards rotor.
- 7D. Fit bolt through centre holes of ceramics ensuring copper washer is between bolt head and ceramic thrust washer.
- 7E. Carefully tighten **LEFT HAND** threaded bolt to a maximum torque of 2Nm.

*Note: Rotor / Impeller assembly should rotate freely. If it does not, dismantle and check.

7F. Ensure "O" ring seal is correctly seated in recess and reassemble motor to pump housing assembly.

DO NOT LUBRICATE BEARINGS OR SEAL WITH ANYTHING OTHER THAN CLEAN WATER

ELECTRICAL CONNECTIONS



Brown - Live
Blue - Neutral
Green/Yellow - Earth

The Amphibious Pump is supplied with a length of 3-core cable (Live, Neutral and Earth), pre-sealed into the motor casing (under no circumstances must this be removed or cut). If the cable is damaged it cannot be replaced and the pump must be discarded.

The open end of the cable is for connection to a mains supply outlet fused at 3 amps. The supply must be earthed. If an extension cable is required, it should be of a suitable capacity 3-core cable 0.75 sq mm H05 Polychloroprene rubber cable.

This should be connected using a 3-way waterproof connector - we strongly recommend the Blagdon waterproof plug and socket (Article No.: 1017824) - It is not merely a connector, but a power point for pond and garden. Half plugs are also available (Article No.: 1017909).

WARNING - This pump must be earthed.

A means of disconnection from the supply having a contact separation of at least 3mm in all poles must be incorporated in the fixed wiring. Always disconnect pump from power supply before putting your hands in the water.

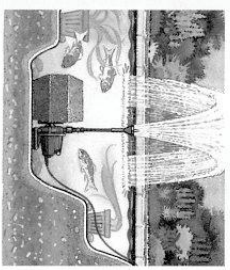
The Amphibious pump is fitted with a thermal cut-out that temporarily switches off the pump in the event of overheating.

1. Ensure all electrical connections are securely made to the correct terminals.

2. The electrical cable (and extension cable if used) should be adequately protected from damage. For permanent installation with a mains supply, it is necessary to comply with the regulations of your local electricity authority
3. Your attention is drawn to the fact that special rules may exist for pumps intended to be used in or at garden ponds and similar places. If in doubt on any electrical aspects, consult your local authority or a qualified electrician.
4. The pump must not be used in swimming pools or at spots where people may come in contact with the water.

AMPHIBIOUS IN-POOL FOAM FILTER

When installing your Amphibious Pump it is recommended that you fit the Blagdon Amphibious In-Pool Foam Filter which will mechanically and biologically filter up to 900 litres of pond water. It is ideal as a pre-filter and may also be used in conjunction with external filter systems. It is easy to fit, easy to maintain, highly effective and prolongs the life of the pump. It has been designed to fit over the inlet strainer of the Amphibious range of pumps. The open cell foam helps to trap suspended particles and algae as the water is sucked into the



pump thus providing mechanical filtration. The large surface area is well designed to encourage the growth of nitrifying bacteria which provides the all-important biological filtration of pond water when the pump is run continuously. The Blagdon Amphibious In-Pool Filter is suitable for flow rates up to 3500 LPH.

WATERFALL/FOUNTAIN ADJUSTMENT

The Amphibious P2000, P2500, P3000, P3500 and P4000 are supplied with a flow adjuster. This is used to regulate the flow of water to your fountain and waterfall when you have both facilities in your pond. For a higher fountain, turn the plastic nut anti-clockwise and vice versa for a higher waterfall flow. Ensure you only adjust the flow with the pump turned off.

IMPORTANT.

This product is intended for use with either a weatherproof cable connector or permanently connected to the fixed wiring of the mains supply other than by means of a plug and socket.

A Residual Current Device (RCD) also known as a Residual Current Circuit Breaker (RCCB), with a tripping current not exceeding 30mA must be installed in the supply circuit.



APPLICATION

The Amphibious pump is designed for use in garden ponds, water decorations and rain water systems. The pump can be used in non chemically polluted water at a temperature between 4°C and 35°C. Performances are measured without filter or fittings.

SUBMERSIBLE INSTALLATION (in water)

The Amphibious Pump should be mounted on a firm base in the pond with the fountain jet above the water surface. It is advisable to keep the pump off the bottom of the pond to avoid silt entering the pump. Specially designed pump stands are available for this purpose. The pump should be placed at a minimum of 0.10m and a maximum of 4m below the surface of the water. If a waterfall outlet is required, remove "waterfall connector plug" from the flow adjuster and Tee piece (supplied with pumps P2000, P2500, P3000, P3500 and P4000 only) and connect a suitable length of hose. 1" hose is usually best for most purposes. The hose should be held securely at the top of the waterfall to avoid "kinking".

NON-SUBMERSIBLE INSTALLATION (out of water)

The P4000, P8000 and P9000 must not be used out of water. Remove the pump filter housing and connect a suitable length of suction pipe* to the pump inlet. Connect Amphibious Non-Return valve* to the end of the suction pipe; these connections must be airtight.

The pump must now be primed by filling through the outlet port with the non-return valve immersed in the pond. Switch the pump on for two seconds, switch off and top up if necessary. The outlet pipe can now be connected. The pump should now be fully primed. If not, repeat the complete process.

Ensure that the pump does not run dry for long periods as damage will occur, invalidating the warranty.

* These items are not included with the pump but can be obtained from your local Blagdon stockist. Please call for your nearest one.

If the pump loses its prime after switching off:

1. Check foot valve is free to operate and the valve seating is watertight and clear of debris.
2. Check hose connections, ensuring they are airtight.
3. Check for air locks in the suction pipe to ensure it rises continuously from foot valve to pump.

⚠ The Amphibious Pump should be mounted on a firm base and kept out of direct sunlight.

⚠ In the interest of safety, we recommend that the pump is kept out of the reach of children and pets. As with any electrical appliance, strict safety precautions should always be observed.

⚠ Note: Under normal operating conditions in the Non-Submersible mode, the outer casing temperature of the Amphibious Pump will increase to a possible max 85°C. Great care is therefore needed when handling. Under no circumstances should the Amphibious Pump be left in a situation where it could be subjected to frost damage.



BLAGDON GARDEN PRODUCTS GUARANTEE

Congratulations! You have purchased the No. 1 Garden Pump.

Your Amphibious Pump is fully guaranteed against failure due to defective workmanship or materials for a period of THREE YEARS from the date of purchase.

Liability is limited to replacement of the faulty product only, no other cost will be reimbursed.

This guarantee does not cover incorrect installation or use, damage due to accident, and dry running of the pump, frost damage, improper repair, deficient maintenance or any parts that are subject to wear and tear.

This guarantee is not transferable and does not affect your statutory rights.

This guarantee does not confer any rights other than those expressly set out above, it does not extend to repaired or replaced items after the expiry period of THREE YEARS referred to above and does not cover any claims for consequential loss or damage and excludes the sponge filter which should be replaced every SIX MONTHS.

If your pump fails to perform, work through the Maintenance Programme.

If any parts need replacing, spare parts are available from your retailer, there is no need to replace the whole pump.

BLAGDON

Blagdon Garden Products

Bristol Road, Bridgewater, Somerset, TA6 4AW

For pump servicing
Telephone 0845 6021102

BLAGDON

AMPHIBIOUS PUMP RANGE

Your guide to the Blagdon Amphibious Water Garden Pump.

Installation and Maintenance Guide.

Models: Amphibious P2000, P2500, P3000, P3500, P4000, P8000 & P9000.

Part No: 6379628