



Submersible Fountain Pump

Please thoroughly read these Instructions before installation and use. **TEXT HIGHLIGHTED IN BOLD IS EXTREMELY IMPORTANT AND MUST BE READ FOR YOUR SAFETY.**

Model	Rated voltage	Power rating	Maximum Flow	Maximum head	Maximum depth	Fountain Pack no:	Diameter of standard outlet	Cable length
AP1000	220-240V, 50Hz	16W	1000L/h	1.7m	1.5m	1	3/4" (20mm)	10m
AP2000	220-240V, 50Hz	45W	2000L/h	3.0m	1.5m	2	1" (25mm)	10m
AP4000	220-240V, 50Hz	70W	4000L/h	2.8m	1.5m	3	1" (25mm)	10m

These pumps are designed specifically for use as in submersible applications. To be used with the fountain head/s supplied or alternatively provide water flow for water features, pebble ponds etc.

These pumps are not for use in swimming pools!

GENERAL SAFETY INSTRUCTIONS

- Read and observe all the instructions clearly before installing, connecting and operating the pump.
- Make sure the pump is securely installed before switching on the power.
- Always disconnect the pump when not in use and when carrying out maintenance.
- The pump must not be used when people are working in water. Please disconnect the pump first.
- For safety reasons, servicing or repair of this item should only be carried out by Pondrite.
- Never hang or carry the pump by the power cord.
- Close supervision is necessary when the appliance is used by or near children.
- Never use accessories which have not been approved for use by Pondrite.
- 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.
- Do not operate the pump with a damaged cord or plug. The supply cord of the appliance cannot be replaced.

If the cord is damaged the appliance should be scrapped.

IMPORTANT:

From 1st January 2005, the revised building regulations for England and Wales state that you are requested to advise your local building control that you intend to install this product, prior to installation.

Components included in the box:

1 x Submersible pump with a Fountain head pack – contents dependant on the model selected as shown:

AP1000



AP2000



AP4000

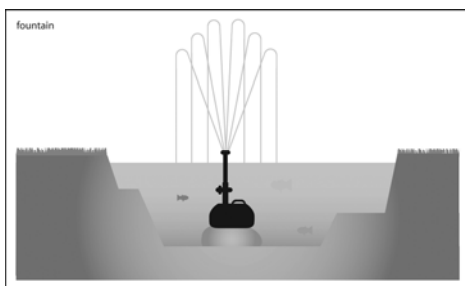


The pump is supplied from the factory with a “standard” outlet for connection to a hose. To change this fitting, simply unscrew the adaptor on top of the pump anti-clockwise and replace it with the required fitting as supplied.

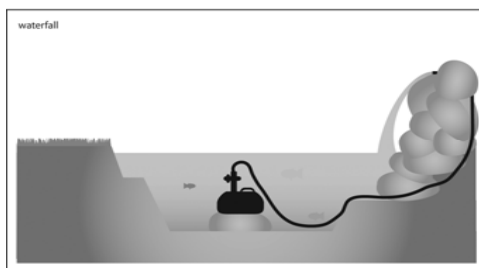
The pump will be supplied with a selection of Fountain Heads and a “T Piece” with adjustable valves. The rotating valves are used to adjust the outlet flow to vary the height of the fountain, but are also used to divert water through the T Piece to allow connection to a waterfall/feature. If using a waterfall/feature, rotate the adjustable valves to balance the water flow between the “outlets to obtain the desired performance.

TYPICAL PUMP INSTALLATIONS:

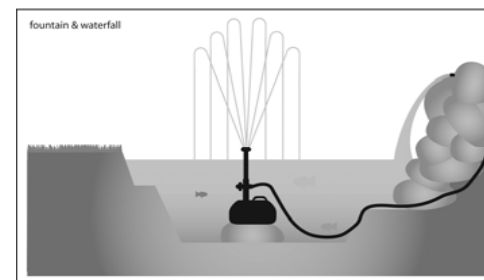
Fountain pump



Waterfall only



Combined Fountain and waterfall / feature



PUMP LOCATION NOTES:

Select a suitable location in the pond which provides a solid and level base to place the pump, standing on a block when necessary to avoid sediment / mud. Ensure that the main body of the pump is located a MINIMUM of 12" below the surface of the water to ensure air cannot be drawn into the motor housing. The actual depth is normally determined by the height preferred for the fountain head, which need to be above the surface of the water for correct operation.

When the pump is in the correct position, route the electrical cable to your waterproof junction box ensuring that cabling cannot be damaged under normal use. If routed underground, ensure conduit is used to protect against damage by garden tools.

Don't Forget!

- Submerge the pumps completely in your pond so as to make the pump body fill with water.
- To prevent the "cage" filter becoming prematurely clogged, place the fountain pump above the mud in the pond!
- The water temperature should not exceed 35°C (95°F) and do not let the pump freeze in the wintertime.

IMPORTANT: Do not let the pump run dry – this could cause damage to the motor.

ELECTRICAL CONNECTION AND IMPORTANT SAFETY DETAIL.

Each pump is supplied with a 10 metre length of 3 core cable, which is permanently connected to the electric motor. The electric motor (mounted inside the outer filter cage) is factory sealed and no attempt should be made to dismantle or repair the motor housing. If the cabling is accidentally damaged – DISCARD THE PUMP.

The installation of the wiring must conform to both local and national wiring regulations; be carried out by qualified electrical personnel with all materials used complying with current British safety standards.

Connecting the wiring:

THIS PUMP **MUST** BE EARTHED VIA THE GREEN/YELLOW CABLE CONNECTION.


All connections must be made in a fully waterproof enclosure, ideally with a fully insulated double-pole switched fuse spur (5a) for easy operation. Where cables enter the enclosure, create a "drip loop" by doubling the cable on itself, to prevent water from seeping along the cable.

******A RESIDUAL CURRENT DEVICE (KNOWN AS AN RCD) must be used for electrical safety. Suggested rating 30mA maximum******

Wiring connections:

BLUE – NEUTRAL (marked with an “N” in most terminal connections)

BROWN – LIVE (marked with an “L” in most terminal connections)

GREEN/YELLOW – EARTH (marked with  in most terminal connections)

Don't forget!

- The pump is to be supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30mA.
- The electrical connection should be located in a waterproof junction box and should be at least 2 meters (6 feet) away from the edge of the pond.
- Keep the electrical connections dry! Ensure that the electrical cord loops below the electrical outlet to form a “Drip Loop”. This will prevent water from running down the cord into the electrical outlet.

Maintenance and cleaning

All Pondrite pumps are manufactured using the best possible components. **Keeping the pump clean is essential to getting the maximum possible life from the motor** – the cleaner you keep it, the longer it will last!

IMPORTANT: BEFORE ANY MAINTENANCE – MAKE SURE THAT THE PUMP IS DISCONNECTED/ISOLATED FROM THE ELECTRICAL SUPPLY.

EVERY installation is different – the maintenance cycle is *entirely* dependant on the Pond location, number of fish, plant life, filtration, temperature, sunlight etc. Initially, we suggest inspecting the outer pump “filter cage” (main plastic body) weekly throughout the year to check for build-up of debris. If the outer filter cage becomes blocked, the fountain/filter (if fitted), water feature performance will reduce dramatically. Also this may cause the pump to overheat with premature failure.

AP1000/2000 Pumps

To thoroughly clean the outer filter cage on the pump, press the two “tabs” on the top of the pump cage and the body will open to expose the pump. Wash the cage in clean water and refit the pump inside in reverse order. At the same time, clean the fountain head, which is easily dismantled and reassembled.

AP4000 Pump

Follow the procedure as outlined for the AP1000/2000 models; to remove the outer filter cage, but unscrew 2 x crosshead screws rather than plastic tags to remove the pump.

Fault finding / Overload protection

The pump has a built-in thermal overload trip which prevents the pump from overheating. The pump must be allowed to cool down before restarting. If the pump does not start again automatically after cooling down, please check the following:

- Lack of water in the pond!
- The filter has become clogged
- The pump housing has become clogged
- Fountain heads or hose are blocked, kinked or damaged
- Incorrect adjustment of the flow valves at the base of the fountain head
- Electrical supply – check cabling and connections

Please check the above before contacting us for assistance.

LIMITED WARRANTY

This product is guaranteed against material or manufacturing defects for a period of 3 years from the date of purchase. The guarantee covers the substitution of defective parts. However if failure is due to improper use/handling or negligence/**lack of maintenance** on the part of the buyer this will invalidate the guarantee. If the pump fails please contact the supplying retailer with proof of purchase. This does not affect your statutory rights.

THE WARRANTY IS INVALID IF THE PRODUCT FAILS DUE TO BEING RUN DRY OR FROST DAMAGE.

Liability cannot be accepted for personal or property damage due to accident, improper installation or use or as a result of a defect. The guarantee is limited to a replacement/repair if deemed to be faulty.



DISPOSAL: Do not dispose this product in household waste.

Pondrite® Stadium North, Tofts Farm Industrial Estate,
Brenda Road, Hartlepool, TS25 2DH.
Tel: 01429 862616. fax: 01429 862696