



Turn2Clean 3000 Set



UV Biological Pond Filter & Solids Handling Pump Set

Item	Model	Power Watts	Dimensions Diameter x height	Inlet /Outlet Size	Max Pond Vol. (Ltrs)	Max Flow
Filter	Turn2Clean 3000	11(UV)	25 X 25 x 41cm	20/25mm	3000L	
Pump	PondForce 2300	35W	20x10x10cm	20/25mm		2300 LPH

Filter has a rated voltage of 220-240V, 50Hz. Max Flow 4000lph. Max pressure 0.2 bar (any outlet pipe should be a maximum 2 metres above filter). 3m power cable
 Pump has a rated voltage of 220-240V, 50Hz. 10m power cable. 2.0m max head.

Included in package: Filter, Pump and 20mm connecting hose (2m + 3m length, easy-connect ends x 3, non-rubberised end designed for outlet to pond).

Introduction

Congratulations on the purchase of your PondHero filtration set. Once your filter is connected you can look forward to many years of healthy pond water.

Your filter is pump fed so must be connected to the pond pump in order to work correctly. Your pump is a solids-handling pump and will push dirty waste and debris into the filter. PondHero equipment is carefully inspected and tested to ensure both safety and operating performance. However, failure to follow the instructions and warnings in the manual may result in product damage and/or serious injury. Be sure to read and save this manual for future reference.

General safety Instructions

Read and observe all of the instructions before installing, connecting and operating. Make sure the filter and pump are securely and correctly installed before switching on. Always disconnect the equipment when not in use and when carrying out maintenance. Always disconnect all equipment in the pond before starting to handle, maintain, repair or install any pond equipment.

The 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.

For safety reasons, servicing or repair of this item should only be carried out by PondHero. Never hang or carry the pump by the power cord.

Do not operate the pump with a damaged cord or plug. The supply cord of the appliance cannot be replaced.

If the electrical cord is damaged on pump or filter the product should be scrapped.

Safety and Electrical Connections

This unit is designed for outdoor use only. It is weatherproof and should be situated safely pondside. The filter should be sited where it cannot fall into the water or become waterlogged.

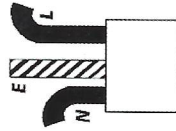
NO PART OF FILTER UNIT SHOULD EVER BE SUBMERGED IN WATER.

Direct exposure to UVC light can damage the eyes and skin. NEVER look directly at the UV when switched on. The translucent inlet will illuminate showing that the UV is working. Always disconnect all equipment in the pond before starting to handle, maintain, repair or install any pond equipment.

PUMP MUST BE SUBMERSED IN WATER BEFORE SWITCHING POWER ON

The ultra violet clarifier housed within the filter and the Pump are electrically operated so great care must be taken during installation and operation. The following electrical and safety guidelines must be carefully followed.

Your pump and filter are supplied with a length of 3 core electrical cable which is permanently connected.



The wires in the mains electrical lead are coloured in accordance with the following code:

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

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

GREEN/YELLOW – EARTH (marked “E” or \oplus in most terminal connections)

1st January 2005 revised Building Regulations for England and Wales

Installing this product in the garden is classified as ‘notifiable’. The Regulations now require you to tell your local authority building control department that you intend to install this product before installation. Your local authority will let you know how you can get your installation approved

The termination to the mains supply should be permanent, inside a dry weatherproof enclosure, through a double pole switched fused spur with a minimum contact gap of 3mm – (disconnected) to BS 3676 – and fitted with a 3 or 5 amp fuse.

Exposed cable runs should be sensibly positioned, and protected if necessary by armoured conduit.

A 10mA or 30mA Residual Current Circuit Breaker (RCD) MUST be fitted to the mains supply.

Permanent installations to the mains supply (hard wiring) must comply with the regulations of the local electricity authority which may stipulate the use of metal or plastic conduit to protect the cable.

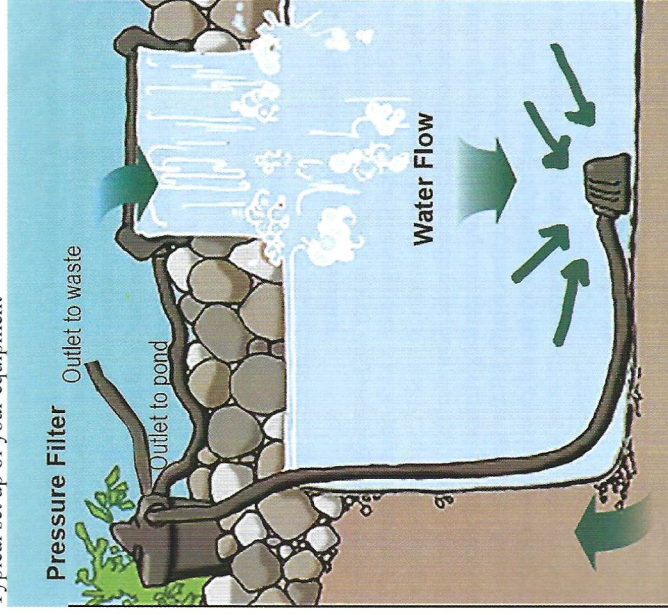
If in any doubt about wiring to the mains supply contact a qualified electrician or your local electricity authority.

Protect from frost. In cold winter weather (when fish are inactive and algae growth ceases) the unit may be switched off. It should then be drained of water, removed (if possible) from its installation and stored in a dry, frost-protected area.

The supply cable cannot be replaced. If the cable is damaged, the unit must be discarded.

Directions for use

Typical set up of your equipment



Installation - Pump

Once installed the pond water will flow through the pump as the pump’s impeller draws in water. It is always best to position your pump at the opposite end to where the water returns to the pond to provide maximum circulation.

Your pond is supplied with a hosetail. This should be screwed into the threaded pump inlet.

Pond hose size 20-25mm (3/4” to 1”) can be attached to the inlet hosetail. Your Set contains 20mm hose. Then connect the hose from your pump to your filter. Rubberised connectors make a watertight seal but for tighter joints hoseclips can be applied (not supplied).

Submerge the pump completely in your pond so as to make the pump body fill with water.

A water level of approx. 15 cm (6 in.) is required for submersible use in order to prevent the pump from taking in air.

Installation - Filter

Once installed and connected to a suitable pump the pond water will flow through the filter. As this is a 'Pressure Filter' the filter is sealed shut meaning the filtered water leaves the filter still under pressure. This means that you have maximum opportunity in positioning your filter as it can be buried up to its hinged lid and below the water exit point. PondHero filters are pump-fed, external filters with an integral UVC unit. Your filter is supplied with two black hoses (2x20mm, 2 x 25mm). The smaller 20mm should be screwed into the threaded filter inlet and the supplied 20mm hose rubberised end connected. For a tighter seal hoseclips can be employed (not supplied). Your pump and filter outlet should be positioned at opposite ends of the pond to promote maximum circulation.

Maturation of the Filter

Your filter comes complete with mechanical filter media. Filter foam acts as a mechanical barrier to pick up solids and helps to develop 'friendly' bacteria. These friendly nitrifying bacteria help to convert harmful fish waste and other organic waste (ie, ammonia, nitrite) into harmless nitrate. This 'biological maturation' process usually takes 6-8 weeks. It is recommended that you do not switch on your UVC during this period.

Maintenance

As the filter does its job the foam filters will block up reducing water flow. If the pond is very dirty then the foams may need cleaning every couple of days or so at first.

"Full Clean" / Switch Off & Strip Down Cleaning Procedure:

The filter requires minimum maintenance. If your pond is very dirty, initially you may need to clean the filter every couple of days. When the filtering process kicks in your water will become clearer and there will be less debris to remove. Switch off any electrical connected to the pond (including the filter itself). Access to the filter can be gained simply by unlocking the securing clamping bracket around the rim (locking catches on smaller models). You can then simply lift the lid. Take the foam filters out of the unit and carefully wash away any solids using a bucket of POND WATER. Once clean replace the foams back in position.

Quick Easy 'Turn2Clean' Cleaning – use of External Handle

- 1) Switch off mains power to your filter and pump.
- 2) Turn blue dial to from 'FILTER' to 'CLEAN' position (the water flow is reversed helping to agitate and loosen dirt),
- 3) Remove the outlet pipe (that usually sends clean filtered water back into your pond and redirect it to a drain or flowerbeds away from the pond. If outlet hose direction can't be manipulated replace 'pond outlet hose' with 'waste hose' – a length of same diameter hose which will carry the dirty water away from your pond.
- 4) Aim this dirty water hose to a flowerbed or drain.
- 5) Turn the external handle to dislodge dirt,
- 6) Switch Pump back on for at least 30 seconds or until you see dirty water run clear.
- 7) Switch pump off. Re-connect original outlet pipe. Switch blue dial back to 'FILTER'. Switch pump and Filter back on at mains.

Removing the filter

If your filter is ever taken away from the pond (ie-winter storage) then all of the filter media (foams and bio-media) must be thoroughly cleaned before restarting. Your filter will then need to undergo the 'maturation' procedure phase as described above.

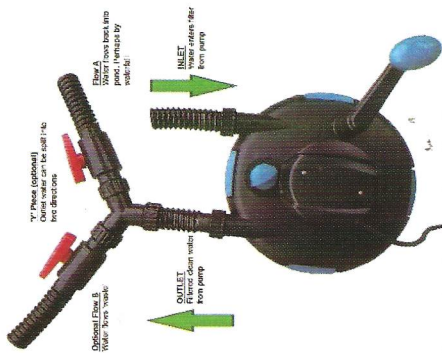
Note: Take care to ensure rubber O ring is correctly positioned between lid/unit after opening. Failure to do so will lead to leaks (a smear of Vaseline around this ring may help keep the seal watertight).

Filteration Spares and consumables

The filter is supplied with everything you need to get started (including filter media, UV bulb and quartz tube for the UV). Over time these parts may need replacing and can be purchased from your retailer.

Suggested Upgrade – 'Y' Piece with Taps

Connection of a Y Piece with Taps will save you switching your outlet hose between pond and waste direction. This can be problematic if the water outlet hose isn't easy to move direction as you have to switch between 'waste' hose and 'pond' hose. The outlet flow can be directed in two directions – one permanently to waste, one back to the pond. You simply have to turn the Y Piece taps on/off at the appropriate time.



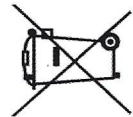
Periods of operation

Maintain filtration 24 hrs a day through the fish feeding season (typically early March-October when the water temperature is above 10 degrees C), but preferably all year round. In the winter operating the pump and filter will maintain a background level of friendly bacteria in the filter and help prevent the pond iced up in all but the severest weather conditions. The UV bulb should be changed at the beginning of every new season. The lamp may look like it is working but the levels of effective UV radiation decrease over time.

Limited Warranty

This product is guaranteed for a period of 12 months from the date of purchase for material or manufacturing defects. The guarantee covers the substitution of defective parts. However, the guarantee is considered null and void in the case of improper use, improper handling or negligence on the part of the buyer. The UV bulb, quartz sleeve and foams and pump impeller are not guaranteed as these items need replacing over time. If your PondHero filter Set fails please take it back to the retail outlet from where it was purchased. You will be required to provide your receipt/proof of purchase. This does not affect your statutory rights.

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Your appliance contains valuable materials which can be recovered or recycled. Leave it at a local civic waste collection point.