

Variable Flow Pond Pumps

Ideal for filters and watercourses

Instruction Manual

IMPORTANT: Please read this instruction manual carefully before using this product. Reep the manual safe for future reference.

pondXpert

Thank you for purchasing a pondXpert pond pump. Specifically designed to move large volumes of water from your pong to afilter or watercourse. A solids handling pump like this can suck in large particulate waste without blocking, and put it straight intoa filter. To ensure that this product is safely and correctly used and at its optimal performance, please read this instruction booklet carefully before use.

1. Keep out of the reach of children.

2. A drip loop should be installed in the cable, to ensure that water cannot travel down it and into an electrical socket.

3. An RCD (of which the rated working current is not over 30mA) must be installed when using the pump, and the power socket must be connected

4. This pump can be run 'dry' or submersed under the water.

5. The device must not be used to pump any flammable liquids or water with a temperature higher than 35°C.

maintaining the pump.

7. Do not attempt to unplug the pump or disconnect from the power supply with wet hands.

9. The power cable cannot be replaced. If the power cable becomes damaged near to the pump body it cannot be replaced, and electricals are sealed inside the unit to make them waterproof.



* Wired control box to easily adjust flow rates(1 % to 100%). * Permanent magnet brushless motor drives, for DC adaptive variable frequency,

* Energy saving motor for large water volumes and high pressure. * Ceramic impeller shaft with high rub resistance and long life.

Usage

1. The device can be placed at the bottom of the pond. One end of the hose should be connected to the pump outlet, and the other end will feed water either to a filter or water course. Hose clips (not supplied) should be used to

6. Always disconnect the power supply when handling, servicing or

8. Do not carry or retrieve the pump from the pond by pulling the electrical

Further, more detailed information regarding the electrical insallation of this product can de foung on pade 8 of this instruction manual.



Suitable for outdoor ornamental garden ponds only. Can be run continuously, 24 hours per day.

2. The direction of the outlet is adjustable. If necessary, loosen the locking nut and adjust the outlet to the direction you need. Then tighten the locking nut

3. Connect the pump cable to the control box using the connector pins on the plug. Push the pins into te connector, then tighten the screw sleeve to secure this into position.

Pump - Electrical Safety attached to is blocked, and needs cleaning, or new mechanical filter media.



* Steady and quiet performance.

high efficiency and long life. * Fully epoxy sealed motor for waterproofing, safety and reliability

fasten the hose to the hosetails.

Maintenance

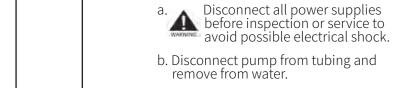
Regularly inspect and clean the pump housing to make sure it has not accumulated too much dirt and leaves. Visibly reduced pump flow is a strong indicator that either the pump cage is nearly completely blocked, or the filter it is



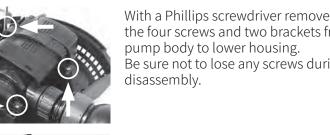
1. Cleaning and Replacing Impeller Asse

upper housing.

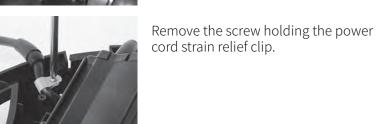
c. Unclip the four locking clips to loosen

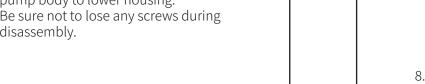






the four screws and two brackets from amp body to lower housing. ure not to lose any screws during









er using water and a damp cloth or

deposits. if the impeller is

ce with a new impeller.





amder.Inspect and clean the impeller chamber. Cleanthe impeller and

7. Once the impeller is cleaned or replace with new one, reverse the steps to reassemble the pump and housing. Tip attach the top housing, start by securing the latch at the handle first. Align the top and bottom housing sections and squee them together at the handle to latch the in place. Then secure the four clips.





Product Features & Operating Instructions

LED Protection Mode

To protect the LED Screen after 30 seconds without touch the LED changes from micro bright to the screen saver mode; Press any button to return to normal.

Memory Function

Overcurrent protection Pull out the Plug. Wait until the display off. Replug in and restart the pump.

Control Panel stores the last setting used. It will retune to this setting when re-con-

Fault Code Description

Error Code	Root Cause	Trouble shooting				
E1	Low water protection	Fill water.				
E 2	Out-of-Step	Pump start error. Replug the pump.				
E 3	Overvoltage protection	Make sure and fix power source in accordance with the proper volatage supply.				
E4	Low voltage proection	Make sure and fix power source in accordance with the proper volatage supply.				
E 5	Phase loss or Rotor blocking protection	Check and make sure the plug in good connection to the power source. Check and make sure the rotor/impeller is not blocked by any dirt. Pull out the plug and wash and clean the rotor/impeller part. Wait				



Auto-Off Function

Should your pond or water reservoir become too shallow for the pump to operate correctly sensors built into the pump will detect this. After a period of two minutes unless this situation is rectified, the pump will switch off automatically to prevent motor damage.

Methods of Use

2m power cord to LCD controller unit then 10m power cord to pump.

Your pump must always be immersed in water before it is switched on. The pump can be submersed or run externally. In 'dry' use water flow should be connected to the water intake hose. As the name implies an external pump sits outside of the pond in a dry location.

			Safe Operation Conditions								
t Cause	Trouble shooting										
ater protection	Fill water.		Pump can	The pump maximum operating depth is 2.0 meters. Pump can handle solid particles up to 10mm. Pump can be used in salt or freshwater conditions.							
ut-of-Step	Pump start error. Replug the pump.		r ump cam	be used iii s	sall Of Hesh	water cond	ItiOHS.				
tage protection	Make sure and fix power source in accordance with the proper volatage supply.		Performance Parameters Table								
tage proection	Make sure and fix power source in accordance with the proper volatage supply.		Maralal Na	Max	Max	Max	Min				
loss or Rotor ng protection	Check and make sure the plug in good connection to the power source. Check and make sure the		Model No:	Power Watts	Flow (L/H)	Head (Mtr)	Flow (L/H				
	rotor/impeller is not blocked by any dirt. Pull out the plug and wash and clean the rotor/impeller part. Wait		5000	43W	5000	4.0m	2800				
	until the display on the LCD is off. Replug the pump.		10000	92W	10000	5.6m	4400				



Digital Control Unit

Required pump flow rate can de selected by use of the LCD control unit. Use buttons to tum the flow rate up or down as required.

1. When power is on, the power light is illuminated, and tl display window shows ---when the pump is stopped. I the pump is in normal running mode, the display window shows the current actual power. Press the

power from 1 to 100% performance. The display reverts to the current actual power after 3 seconds. 2. Press the ON/ OFF key to start or turn off the pump, pre

increase key or the decrease key to adjust the pump

the increase key or decrease key to adjust the power from 1 to 100% performance. 3. The power rating displayed on the window will alter when

you press the increase or decrease key to adjust the pump performance 1 to 100%.

Pump Performance Data

Model No:	1	Max Flow	Max Head	Min Flow	Min Power	Hose Tail Fittings
5000	Watts 43W	(L/H) 5000	(Mtr) 4.0m	(L/H) 2800	Watts 24W	20/25/32/38
10000	92W	10000	5.6m	4400	30W	20/25/32/38
20000	205W	20000	7.5m	9700	52W	20/25/32/38
ll pumps	voltage: AC	220-240V 50)/60Hz.	•	•	





This unit is designed for outdoor use only. Take care to ensure that you can easily lift your pump out of the water for routine maintenance. If this is necessary do not pick your pump up by the electrical cable but by the main body/ cage of Always disconnect all equipment in the pond before starting to handle, maintain,

repair or install any pond equipment. The pump is electrically operated so great care must be taken during installation and operation. The following electrical and safety guidelines must be carefully

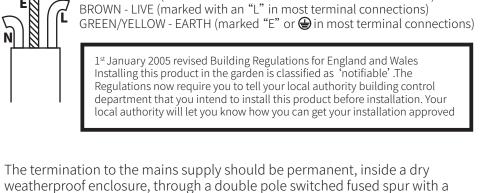
Pump – Electrical Safety

Each pump is supplied with a 8metre length of 3 core electrical cable which is attached to the Control Unit via a plug-in connector. A 2m length of permanently attached power cable runs from the connector to the mains supply.

The wires in the mains electrical lead are coloured in accordance with the

Voltage	230V/50Hz	MODEL	10000	Voltage	230V/50Hz	MODEL	20000	Voltage	230V/50Hz
low Rate L/h	Max.Height (M)	LEVEL %	Power(W)	Flow Rate L/h	Max.Height (M)	LEVEL %	Power(W)	Flow Rate L/h	Max.Height (M)
5000	4.0	100	92	10000	5.6	100	205	20000	7.5
4600	3.8	90	85	7800	5.5	90	190	18000	7.1
4500	3.7	80	79	7500	5.3	80	175	17400	6.7
4300	3.6	70	72	7200	5.0	70	159	16800	6.3
4200	3.4	60	66	6900	4.7	60	143	16100	5.8
4000	3.3	50	60	6600	4.4	50	128	15300	5.4
3800	3.1	40	54	6200	4.1	40	114	14500	49





num contact gap of 3mm – (disconnected) to BS 3676 – and fitted with 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.

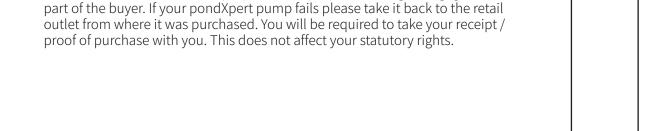


Screw__

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. This product is guaranteed for a period of 36 months (excluding rotor assembly) If in any doubt about wiring to the mains supply contact a qualified electrician from the date of purchase for material or manufacturing defects. The guarantee or your local electricity authority. 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

Locknut

— Rubber Sealing Ring



pondXpert



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SIZE: A5=148X210mm