

INTRODUCTION

Thank you for choosing our product. Please read the operating instructions and familiarize yourself with the equipment before placing it in service. Correct and safe use of the system requires strict compliance with the safety instructions. For safety reasons children and young people under 16 years of age, as well as people that cannot recognize potential hazards, or people that are not familiar with these instructions, may not use this device.

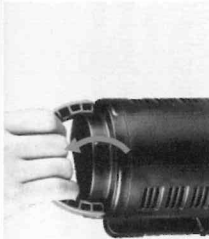
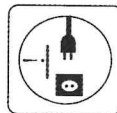
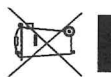
This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

SAFETY INSTRUCTIONS

1. For your own safety, please contact an electrical specialist in case of questions and problems!
2. Do not connect the power supply when the all parts are not installed.
3. Plug in the pump only to a power receptacle with ground contact. This type of outlet must have been set up according to the respective national directives (VDE, EN, IEC, etc.) Insure that the PE conductor extends all the way to the pump.
4. Make sure the voltage in the pump is the same with the actual power supply.
5. Electrical installations on garden ponds must correspond to the international and national installation directives.
6. Only operate the pump if no one in the water!
7. Do not carry or pull the pump by the connecting cable, avoid the cable over heat, greasy or touch acute angle.
8. The pump may not be operated if the cable or the housing are defective!
9. Never displace any liquids other than water.
10. Attention: the pump will automatically stop working if overload or without water.
11. The controller is not the water-proof design, so put it in dry and ventilated place

FEATURES

1. Multi function intelligent control layout, can adjust flow and power.
2. The new electronic frequency conversion technology, energy saving.
3. Centrifugal impeller design, improve the H-max and output.
4. Silence, can be used both in fresh and sea water.
5. Novel design and generous, rotary handle, easy to carry.
6. Rotary feet, can work vertical or horizontal.
7. Use ceramic shaft, wear resistance, no rust.
8. Long service life, no copper element.
9. The outlet realize multistage over, suitable for a variety of pipe diameter connection.
10. Separation of electric drive, more safe and stable.
11. The external aluminum alloy radiator of the controller, send out the internal temperature effectively.
12. The locked-rotor protection function (immediately cut off power after impeller jammed)
13. Abnormal alarm function, warn you to handle various abnormal problems of the pump in time, avoid unnecessary losses.



INSTALLATION

1. Notify your dealer immediately if there are external damages.
2. Compare the line voltage (V) and frequency (Hz) of your electrical circuit with the data on the model plate, these data must agree.
3. Connect the pipeline in needed, attention, when finish the installation, the piping system shall not have bubble.
4. Attention: the pump must below the level of water 20 cm at least, the placement surface must firm and maintain the pump level.
5. Do not place the pump directly in the pond floor mud, place it on a raised surface.
6. Connect the pump with the controller of four core wire, lock the nut, as pic 1:



7. Connect the power supply of the controller.

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 earth symbol 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 pump 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.

CONTROLLER USE

SmartPump Special Features

1. Switch function
After the power is switched on, touch , control the switch of pump.
Attention: Please cut off the power if long time no use.
2. Adjust the gear
Touch  or  can regulate pump performance, a regulation is realized when you touch once. Consult the detailed performance parameter table:

MODEL	VOLTAGE	GEAR	POWER	FLOW	H-MAX
VarisSmart 8000	110V~220V/50~60Hz	SP01	18W	3500L/h	1.6m
		SP02	23W	4000L/h	1.9m
		SP03	28W	4600L/h	2.3m
		SP04	35W	5000L/h	2.7m
		SP05	42W	5400L/h	3.1m
		SP06	51W	5800L/h	3.5m
		SP07	60W	6200L/h	3.9m
		SP08	66W	6700L/h	4.5m
		SP09	73W	7200L/h	4.8m
		SP10	80W	8000L/h	5.4m
VarisSmart 15000	110V~220V/50~60Hz	SP01	37W	7500L/h	2.3m
		SP02	47W	8500L/h	2.7m
		SP03	61W	9200L/h	3.2m
		SP04	77W	10000L/h	3.7m
		SP05	97W	11000L/h	4.3m
		SP06	110W	11500L/h	4.9m
		SP07	124W	12000L/h	5.4m
		SP08	142W	12700L/h	6m
		SP09	157W	13500L/h	6.5m
		SP10	180W	15000L/h	7m

3. Feeding function
Press  until the buzzer sounds twice, delay time 10 minutes, if cancel delay, operation is the same.
4. Lock/Unlock function
After adjust the position you need, press  until the buzzer sounds twice, enter the locked state, the unlock function is the same operation.
5. Automatic memory function
When the controller power off accidentally, after electricity, automatic recovery to a working state as before.



6. Alarm function

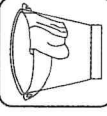
When the pump work without water, the pump will automatically cut off the power, then the buzzer sounds short time to warn you. It will start to work again after 5 seconds. If the fault is not eliminated, the pump still in the state of self-protection. And it will cut off the power after repeat five times, the buzzer will continue to prompt and show ER03 in the display screen. When the pump blocked, it will automatically cut off the power, the buzzer will continue to prompt and show ER02 in the display screen.

Attention: If you want to cancel alarm, you need to cut off the power supply of the controller. After all the faults have been ruled out, restart the power.

7. Code definition and troubleshooting

CODE	DEFINITION	STATUS	TROUBLESHOOTING
P000	Power	Normal	/
SP00	Gear	Normal	/
FEE0	Delay start	Normal	/
ER05	Short-circuit current display	Abnormal	Check the controller
ER04	Overheat flicker	Abnormal	Clean the pump
ER03	Pump work without water	Abnormal	1. Check the pump whether work without water 2. Check whether there is air in the pipe
ER02	Pump stuck	Abnormal	Check the pump whether stuck
ER01	Over/Under voltage display	Abnormal	Check input voltage (it is normal when cut off the power)

MAINTENANCE/CLEANING



The pump running after a period of time, the rotor internal accumulation of stolen goods. If it is not clean long time, not only affect the normal work of the pump, but also damage the pump. Regular cleaning and maintenance the inside is necessary. Please cut off the power when clean it, cleaning tips are as follows:





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1. Rotating remove the filter case as pic 1, pic 2 is showed when finished.
 2. According to the direction of the arrow showed in pic3, push the insurance clasp, rotating remove the impeller chamber, pic 4 is showed when finished.
 3. Remove the rotor combination as pic 5, then you can clean or change.
 4. The installation position of the O-ring as pic 6.
- If the pump is not used for a long time, please pull out the pump, it is better to run the pump in the clean water for a short time. And then rinse with clean water. Clean and make sure the pump is dry, put it in a stable place. If the temperature is below 0 degrees, the water in the pump should be discharged immediately. In order to prevent freezing damage of water pump.



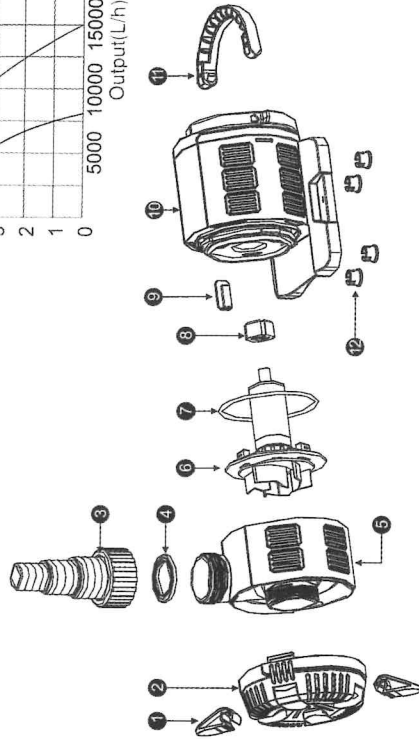
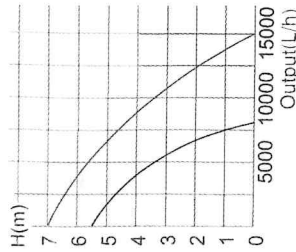
TROUBLESHOOTING

Malfunction	Cause	Solving measures
Pump do not run	No power supply Burning machine Impeller stall Run without water Not connected with the controller The controller is damaged	Connect power Change pump Clean and relink to power Fill with water and relink to power Relink the controller Change the controller
Pump noise	Dirty inside or shaft break Ceramic shaft wear	Clean pump or change rotor and ceramic shaft
Pump water shortage	Damage of the impeller Inlet/outlet/filter basket obstruction Under voltage	Change rotor combination Clean and relink to power Adjust the voltage

PART LIST

1	Bottom footx4	5	Impeller chamber	9	Insurance clasp
2	Filter basket	6	Rotor combination	10	Motor
3	Outlet	7	O-ring	11	Handle
4	Seal circle	8	Ceramic bearing components	12	Rubber foot-padx4

Note: The part list is for reference only. Please refer to the actual product for details.



WEARING PARTS

1. Rotor combination
2. Ceramic shaft

GUARANTEE

Limited Warranty

This product is guaranteed for a period of 36 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. If your pondXpert pump fails please take it back to the retail outlet from where it was purchased. You will be required to take your receipt/proof of purchase with you. This does not affect your statutory rights.

PondXpert

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

01642 370898

www.pondxpert.co.uk

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