cet35000T IM_Layout 1 28/11/2025 11:09 Page 1

pondXpert

VariSmart Pump 35000

Variable flow pump with LCD Controller

Before operating this appliance, please read this instruction manual completely and keep it handy for future reference.



cet35000T IM_Layout 1 28/11/2025 11:09 Page 2

1. 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.

2.CAUTION



(1).For your own safety, please contact an electrical professional in case of questions and problems.
(2).Do not connect the power supply when the all parts are not installed.
(3).The pump can only be plugged in a socket with leakage protection. 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 heart, 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. As long as plug in the power again, water pump will go back to work.
(11) LCD controller must be kept in upright position during use.

3.APPLICATION

Suitable for outdoor pond use

(1). Can be run 'dry'. Please note pump is not self-priming so always should be positioned below the surface level of the water (even though it is not in the water itself).
(2). Can be run 'submersed'. Please ensure pump is operated with at least 20cm depth of water above it. (Note: Max operating depth 2.0m).

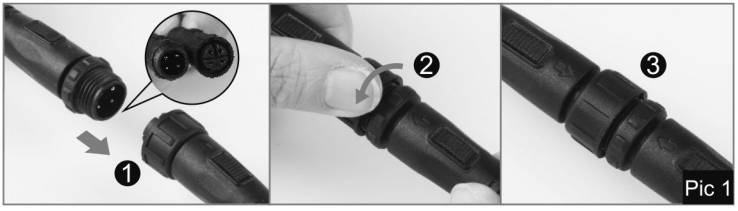
4.FEATURES

(1).New electronic frequency conversion technology, energy saving.
(2).Big flow rate, stainless steel filter case
(3). Ceramic shaft - durable and can handle fresh & salt water
(4).IC electronic detection, automatic idling protection and blocking protection.
(5).10 grades flow rate adjustable, abnormal error reporting

cet35000T IM_Layout 1 28/11/2025 11:09 Page 3

5.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.when connecting pipe, drainage air in the pipe as far as possible (when the air blocking in the pipe, prone to idle protection).
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:



Pic 1

7. Connect the power supply of the controller

6.CONTROLLER OPERATION INSTRUCTION



1.ON/OFF
Plug in and touch ⏯ to control the pump on and off.
PS: if does not use this device for long time, please power off.
2.Flow rate adjusting
Press △ or ▽ to adjust the flow rate, totally 10 levels, and screen will show SP01~SP10. detailed please refer to the parameter list.

Model	Voltage	Grade	Power	Flow Rate	Head
VariSmart 35000	220-240V/50Hz 110-120V/60Hz	1	45W	13000L/h	2m
		2	70W	15000L/h	3m
		3	100W	17000L/h	4m
		4	135W	19000L/h	4.8m
		5	180W	20500L/h	6m
		6	225W	22000L/h	7m
		7	275W	24000L/h	8m
		8	330W	26000L/h	9.5m
		9	400W	28000L/h	11m
		10	450W	32000L/h	12m

cet35000T IM_Layout 1 28/11/2025 11:09 Page 4

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3.Feeding mode

Long press △ 3secs to enter time delay start mode, and the screen will show Fd10. The device will start to work after ten mins. Again, long press △ 3 secs to quit feeding mode.

4.LOCK function

Long press ▽ to lock the keys, and the screen will show LOC. Long press ▽ to unlock the keys.

5.Automatic memory function

When the controller power off accidentally, device will recovery last working condition automatically after power on.

Controller accident after the power on the electric automatic recovery last working condition.

6.An error report

The pump will automatically stop working if without water running more than 30secs, then re-start after 3secs, repeat 5 times and then power off permanently, error report says Er03; when pump will automatically stop working if blocked, and error report says Er02.

PS: After trouble shooting, water pump will go back to work as long as plug in the power again.

cet35000T IM_Layout 1 28/11/2025 11:09 Page 5

7.The definition of instruction code and trouble shooting

CODE	DEFINITION	STATUS	TROUBLESHOOTING
P000	Power	Normal	/
SP01-10	Flow rate level	Normal	/
Fd10-01	Feeding mode	Normal	/
_LOC	Lock	Normal	/
Er01	Over or under voltage	Abnormal	Check input voltage(It is normal when cut off the power)
Er02	Pump lock protection	Abnormal	Check the pump whether stuck
Er03	Pump idling protection	Abnormal	1.Check the pump whether work without water 2.Check whether there is air in the pipe
Er04	Over heater	Abnormal	Clean the pump
Er05	Short-circuit current	Abnormal	Check the controller

8.TROUBLESHOOTING

Malfunction	Cause	Solving measures
Pump noise	1.Dirty inside or shaft break 2.Ceramic shaft wear	Clean pump or change rotor and ceramic shaft
Pump water shortage	1.Damage of the impeller 2.Inlet/outlet/filter basket obstruction 3.Under voltage	1.Change rotor combination 2.Clean and relink to power 3.Adjust the voltage
Pump do not run	1.No power supply 2.Burning machine 3.Impeller stall 4.Run without water 5.Not connected with the controller 6.The controller is damaged	1.Connect power 2.Change pump 3.Clean and relink to power 4.Fill with water and relink to power 5.Relink the controller 6.Change the controller

cet35000T IM_Layout 1 28/11/2025 11:09 Page 6

MAINTENANCE/CLEANING



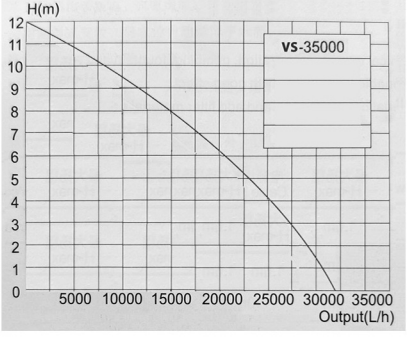
Pump operation after a period of time, there will be many rubbish on the rotor part, if long-term no cleaning will not only affect the normal work, also can damage your pumps, so need to clean the rotor part regularly. Please cut off the power supply when maintenance, disassemble steps are as follows:



1.Pls use hexagonal screwdriver screw off the 4 screws on the filter basket(as picture 1) and 2 screws on the base plate(as picture 2), taking down the filter basket and base plate, picture 3 is showed when finished.
2.Pls use hexagonal screwdriver screw off the 4 screws on the impeller chamber (as picture 4), taking down the impeller chamber, picture 5 is showed when finished.
3.Taking down the rotor, clean or replace it.
If not used for a long time, please take out the pump from the water, let it running in the clean water for a moment, and then clean the inner part, dry before collection.
When the temperature is lower than 0°C, please take out the pump from water immediately in case of freezing damage.

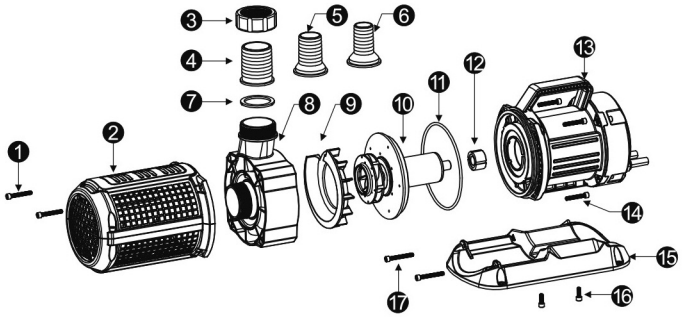
TECHNICAL PARAMETER

Model	VariSmart 35000
Voltage	220-240V/50Hz
Power	45W~450W
Output	32000L/h
H-max	12m
Hose adapter	32/38/50mm
Cable length	10m
Controller	√



cet35000T IM_Layout 1 28/11/2025 11:09 Page 7

STRUCTURE



1	Screw M6x40	7	Gasket	13	Body
2	Filter basket	8	Impeller chamber	14	Screw M6x35
3	Outlet nut	9	Vice impeller chamber	15	Base plate
4	Outlet 1	10	Rotor	16	Screw M6x16
5	Outlet 2	11	O-ring	17	Screw M6x45
6	Outlet 3	12	Bearing		

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.

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