



HONYA CO., LTD  
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## VarioS 10 Circulation Pump

### Instruction Manual



Dear Customer

Thank you for choosing OCTO, a quality product manufactured by HONYA CO., LTD. In order for you to safely use our product for maximum results, please read the instruction prior to use. We would strongly suggest that you retain this Instruction for future reference.

Safety on Magnet

• **CAUTION-Extremely Strong Magnets**, please handle with care.

## Notes

- Never handle any electrical component when your hands are wet.
- Ensure that all components (Power Adapter, Controller, Wires, etc) are properly set-up to prevent accidental damage.
- For Indoor use ONLY.
- For Controller operation, please refer to the instructions as per this manual.
- Keep Controller Cool and Dry, do not expose to Direct Sunlight or Heat.
- Pump Protection System – if pump is detected to be running dry, it will stop operating after about a minute. To restart the Pump, off the power, re-position the pump to ensure that it is submerge in the water then turn on the power.
- Should in the unlikely event that your pump stop working, please refer to the Trouble Shooting page in this manual.
- Please maintain your pump as per this manual.

## Overview

- VarioS 10 circulation pump features a detachable controller, high quality ceramic shaft and bearings to reduce wear and tear, and the latest variable speed flow technology for refined control, enhanced performance, energy-efficiency and safer operations.
- Unlike the vast majority of circulation pumps which uses alternating current (AC), our VarioS 10 pump boasts several key advantages over traditional AC pumps, namely, higher energy efficiency, safer operations at a working voltage of 36V, less heat produced with every volume of water flowing and most notably, the variable speed control for adjustment of flow rate.
- With the controller, user has full control over the flowrate by selecting 90 preset speed settings, indicated within by its built-in display panel, which also allow the user to view both the wattage and RPM of the pump in real time. A 15 or 60 minutes feed mode can also be engaged or disengaged with the push of a button.
- A rotatable output volute orientation allows for adjustment horizontally or vertically for placement flexibility.

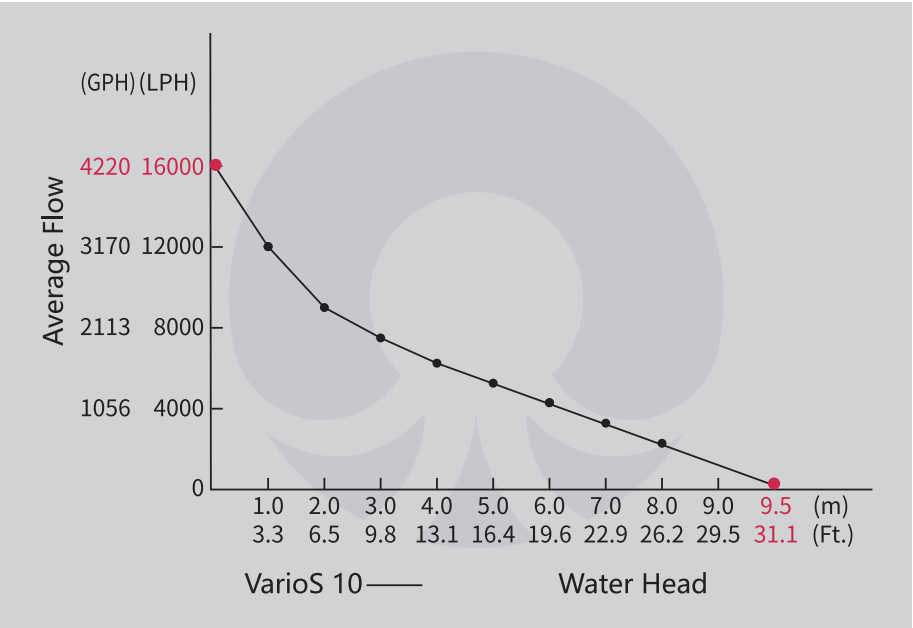
## Features & Benefits

- Controller module with 90 variable speed control settings
- Engineered for high pressure applications
- High quality ceramic shaft and bearings for a more durable and quieter operation
- Rotatable outlet volute
- In-built circulating and intricate cooling mechanism for prevention of overheating of the pump
- Auto shutdown system upon detection of electric circuit abnormalities
- 0-10V external controller connection
- Float switch capability\*
- 5 minutes delay timer can be activated
- Dual feed modes (15 or 60 mins)
- DC 36V for safer operations

## Product Specification

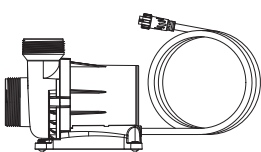
OCTO VarioS 10 Circulation Pump											
Item #	Product	Power	Wet/Dry	Power	Max Head Height		Maximum Flow Rate		Connection Size		Freshwater/Marine
				W	m	Ft.	LPH	GPH	Inlet	Outlet	
9010108	VarioS 10	DV36V	Both	200	9.0	29.5	16000	4220	Φ50 (1-1/2")	Φ40 (1-1/4")	Both

## Flow Rate Chart

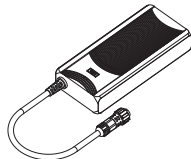


Package

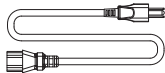
Check the contents in the package



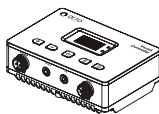
● Pump



● Power adapter (DC36V/7.0A)



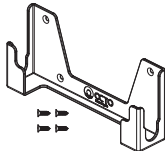
● Power cord



● Controller  
3010108003



● Controller mounting with screws  
4010108001



● Power adapter mounting with screws  
4010108002



● Threaded Coupling - Male (40mm)  
1042000013



● Union Flange 40mm (1-1/4")



● Union O Ring (42\*4)  
1050100092



● Threaded Coupling - Male (50mm)  
1042000014



● Union Flange 50mm (1-1/2")

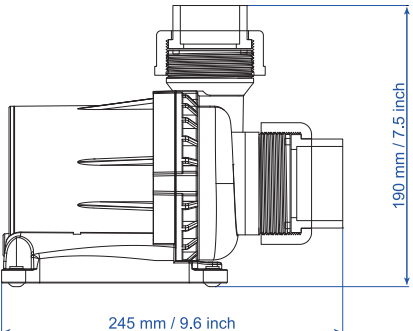
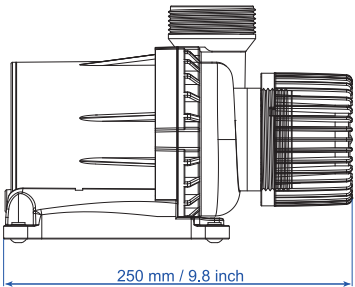
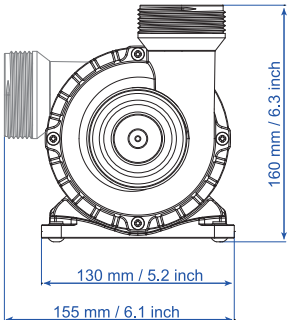
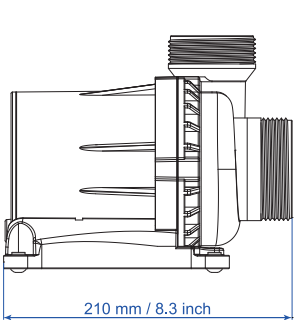


● Union O Ring (50.8\*4.6)  
1050100093



● Intake Strainer  
4010108003

Pump Dimensions

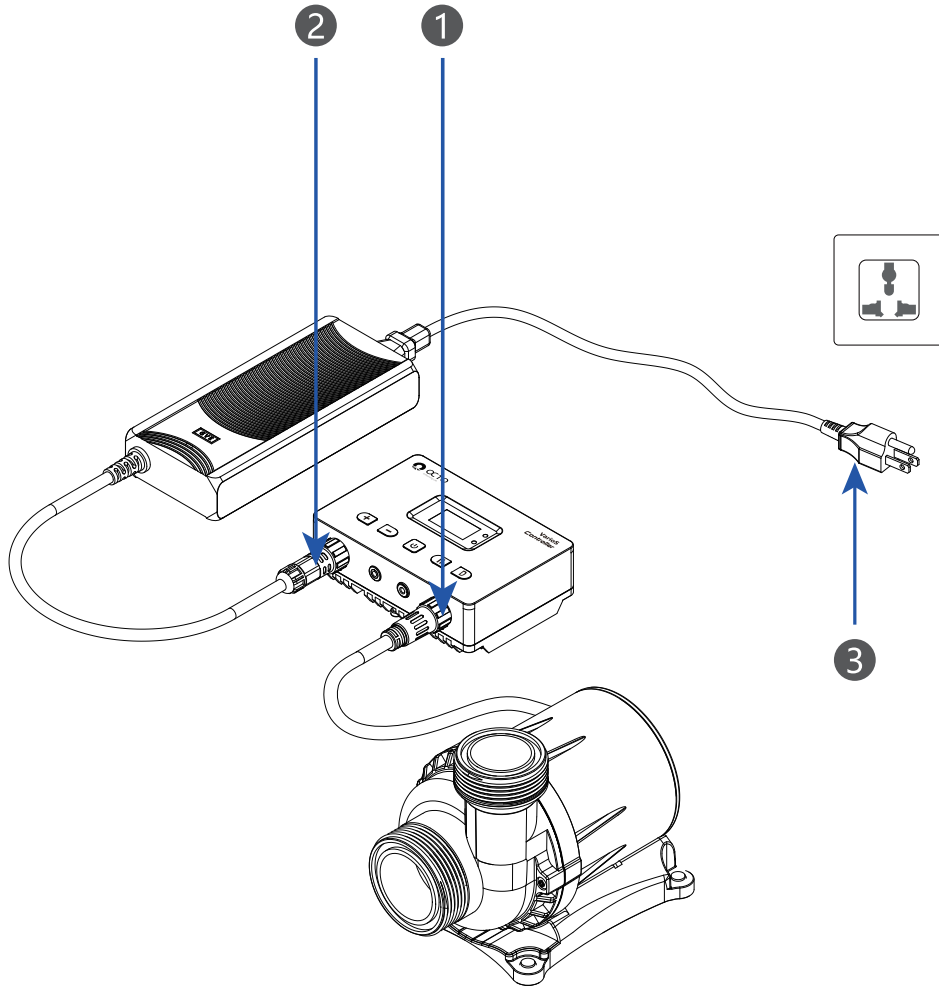




## Installation

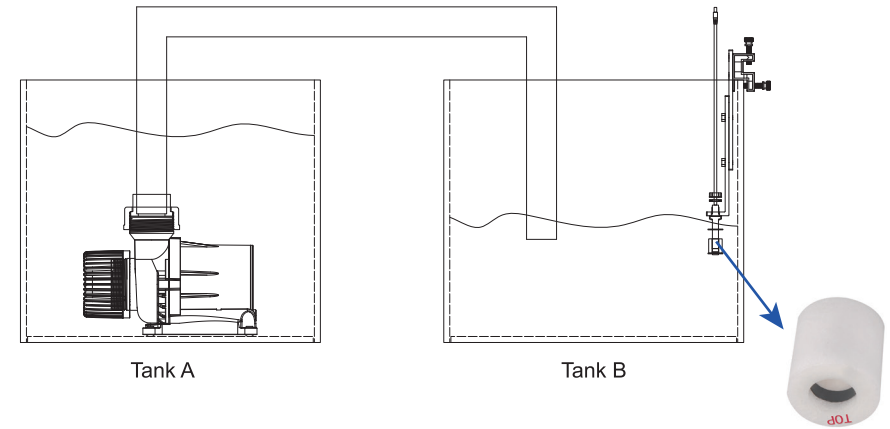
Connections as per below diagram.

VarioS 10 System has a built-in safety mechanism. Make sure all cables are connected (1 and 2) , mount the controller before turning on the power (3)

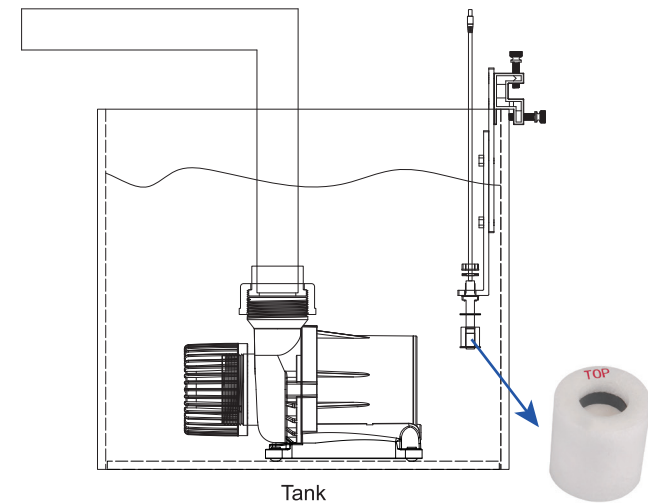


## Float Switch Installation

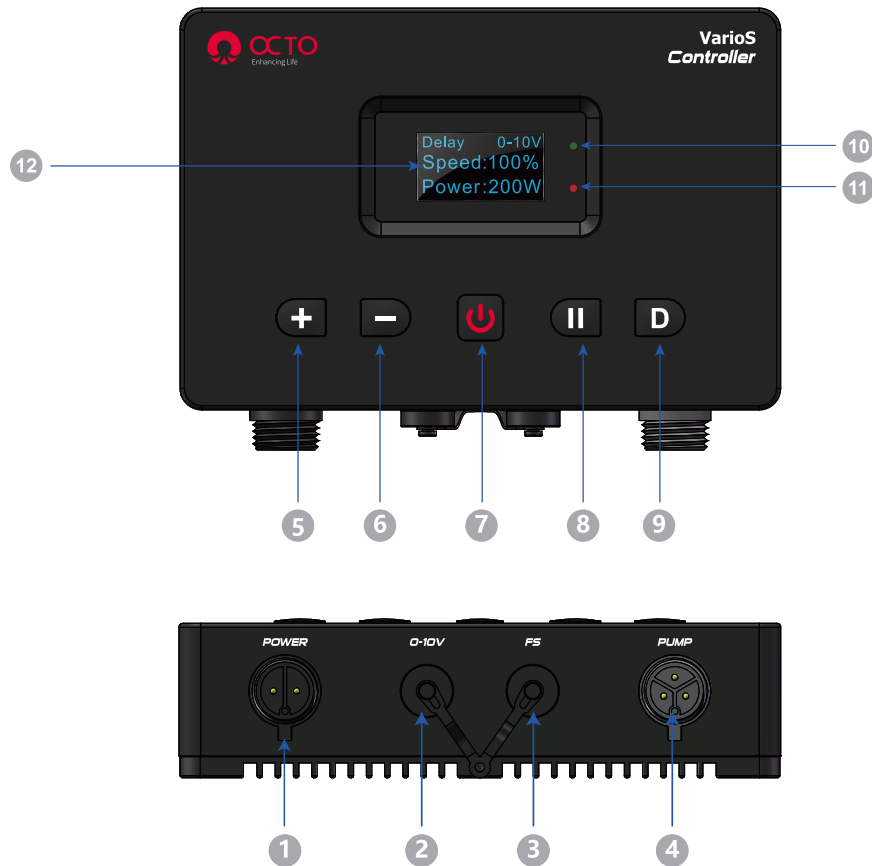
- Auto Top-Up Function (Float Switch “TOP” marking facing downward as per factory setting):  
When the water level is lower than Float Switch in Tank B, pump will switch on automatically and fill water to the desired set level.  
Pump will stop when Tank B is filled to the desired set level.



- Low water level cut off function (Float Switch TOP marking facing upward):  
When water level is above the Float Switch, pump will operate as per normal.  
When the water level is below the Float Switch, the pump will stop operating.



## Controller Quick Start Guide



### Legend

- 1 Power supply Connection (DC36V/7.0A)
- 2 0-10V Input (3.5mm TRS Audio port)
- 3 Connection to Float Switch (35135 DC Jack)
- 4 Connection for pump VarioS 10

### Settings

- 5 — 6 Press ( **+** ) or ( **-** ) to adjust desired flow rate; Press and hold button for fast adjustment. Range of adjustment: 10% - 100%
- 7 Power ON Switch ( **Power** ) - press once to toggle unit on/off;  
When "Pause" function is activated, press once to cancel "Pause" function;  
When "Delay" mode is activated and counting down, press once to cancel counting down, and pump will start running.
- 8 Pause function ( **II** ) - 15 mins or 60 mins options. Press once for 15 mins and twice for 60 mins, pressing Pause button continuously to toggle between 15 or 60 mins.
- 9 Press ( **D** ) once to activate Delay function, depress once more to cancel. Once you activate Delay function, it will be always ON till you deactivate this function. Pump will start after 5 mins if this function is turn ON. Factory Setting - Delay function is not activated.  
  
Press and hold ( **D** ) for 3 secs to toggle the display between Watt or RPM.  
  
What is Delay Function?  
Delay function when activated stops the pump from restarting immediately after power is restored.

### Lights Status Monitor/Screen Icon

- 10 Lights - Green, power is ON.
- 11 Lights - Red - Power OFF/Pause Timer Countdown/Delay Timer Countdown  
Lights - Flashing - Pump Error/Float Switch Activated.
- 12 Screen Icon: Display will go into sleep mode when inactive for 3 minutes.  
Press any button to revive.

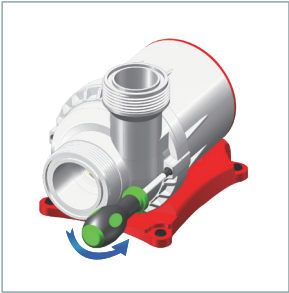
### Attention :

- 1 When 0-10V port is use, "0-10V" will be displayed , flow rate cannot be adjusted by controller.
- 2 Display will go into sleep mode when inactive for 3 minutes. Press any button to revive.

#### 0-10V Wiring diagram :



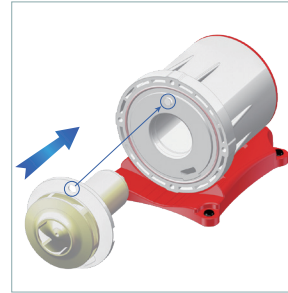
## Dismantling and Maintenance



Step 1



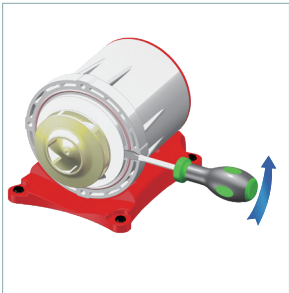
Step 2



Step 6



Step 7



Step 3



Step 4



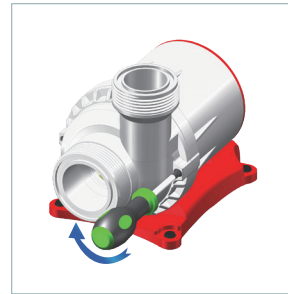
Step 8



Step 9



Step 5



Step 10

- Switch off the Power Supply and remove the plug from the socket.
- Using a Phillips Head screwdriver and unscrew the 4 screws as shown (step 1).
- Remove the volute (step 2).
- Using a Flat Head screwdriver and gently pry open the cover (step 3/4).
- Rinse and wash the pump chamber and impeller.
- Holding the Impeller upright, using your hand and turn the impeller a few rounds, if the impeller board is not seated straight, gently press it down and snap it back to the housing (step 5).

- Insert the Impeller back to the chamber, ensure that the marking of the impeller aligns with the marking on the pump body (step 6/7).
- Check the impeller and ensure that it is spinning freely (step 8).  
If it is not, repeat step 5.
- Using a Phillips Head screwdriver to secure the 4 screws (step 9/10), Do not over tighten.

## Trouble Shooting

# ERROR

- Error Warning (Flashing ERROR).

Causes	Solutions
Pump is running dry.	Ensure pump is submerge.
Shaft is loose or not secure tightly to the Impeller.	Replace the impeller rotor.
Connection to controller or pump is loose.	Turn off the device and check all connections.
Impeller not detected.	Turn off the device, ensure impeller is install correctly and spinning freely.
Impeller is blocked.	Remove all debris and clean the impeller chamber; Ensure that impeller and its magnet is in good condition without cracks or broken.
Inconsistent power supply or connection is not connected properly.	Replace Power Adapter.

## Notes

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