



HONYA CO., LTD
www.reefoctopus.com



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 optimum 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.

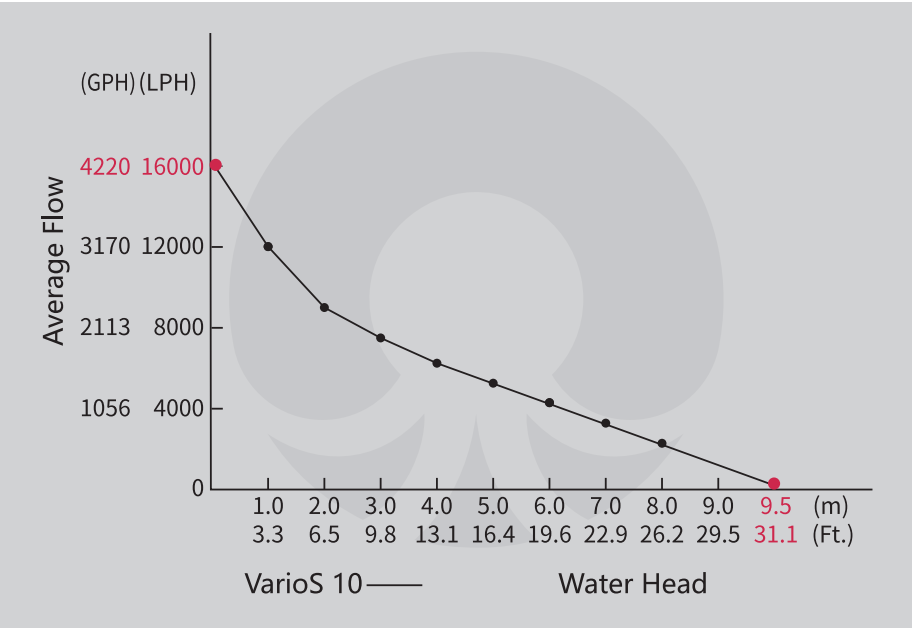
Features & Benefits

- 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

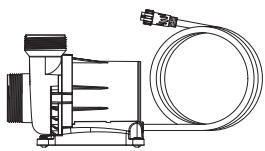
OCTO VarioS 10 Circulation Pump											
Item #	Product	Power	Wet/Dry	Power	Max Head Height		Maximum Flow Rate		Connection Size		Freshwater/Marine
					W	m	Ft.	LPH	GPH	Inlet	
9010108	VarioS 10	DV36V	Both	200	9.0	29.5	16000	4220	Φ50 (1-1/2")	Φ40 (1-1/4")	Both

Flow Rate Chart

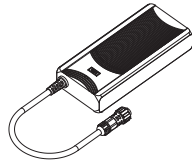


Package

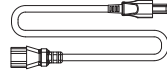
Check the contents in the package



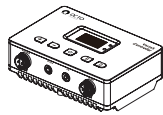
● Pump



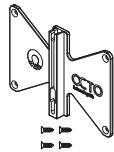
● Power adapter (DC36V/7.0A)



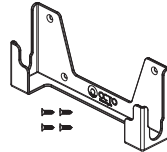
● Power cord



● 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")

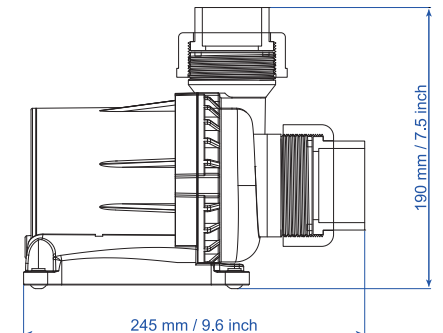
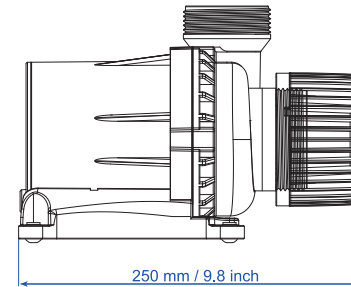
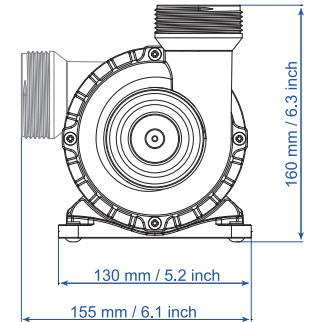
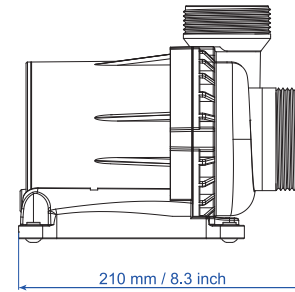


● Union O Ring (50.8*4.6)
1050100093



● Intake Strainer
4010108003

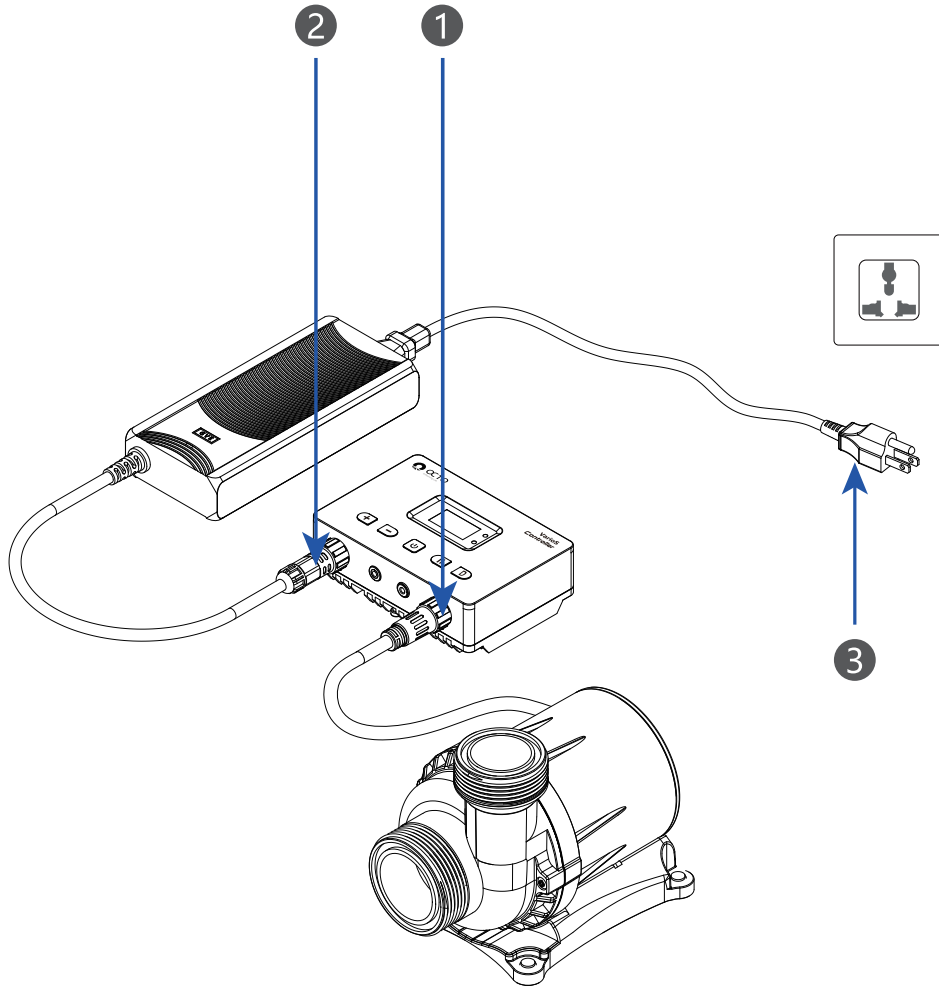
Pump Dimensions



Installation

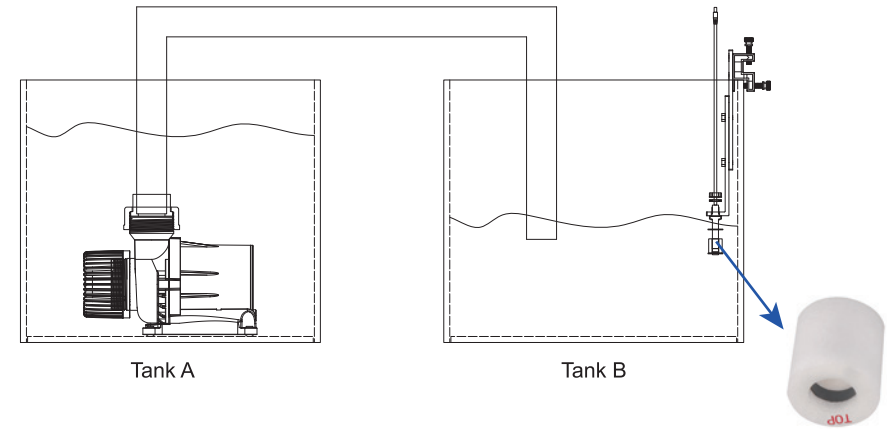
Connections as per below diagram.

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)

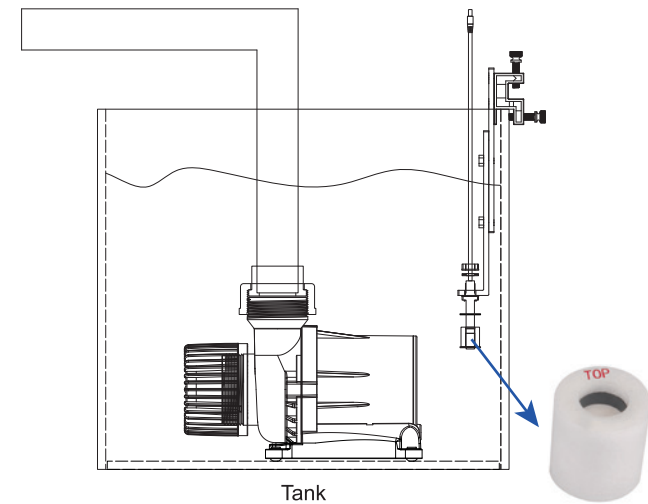


Float Switch Installation

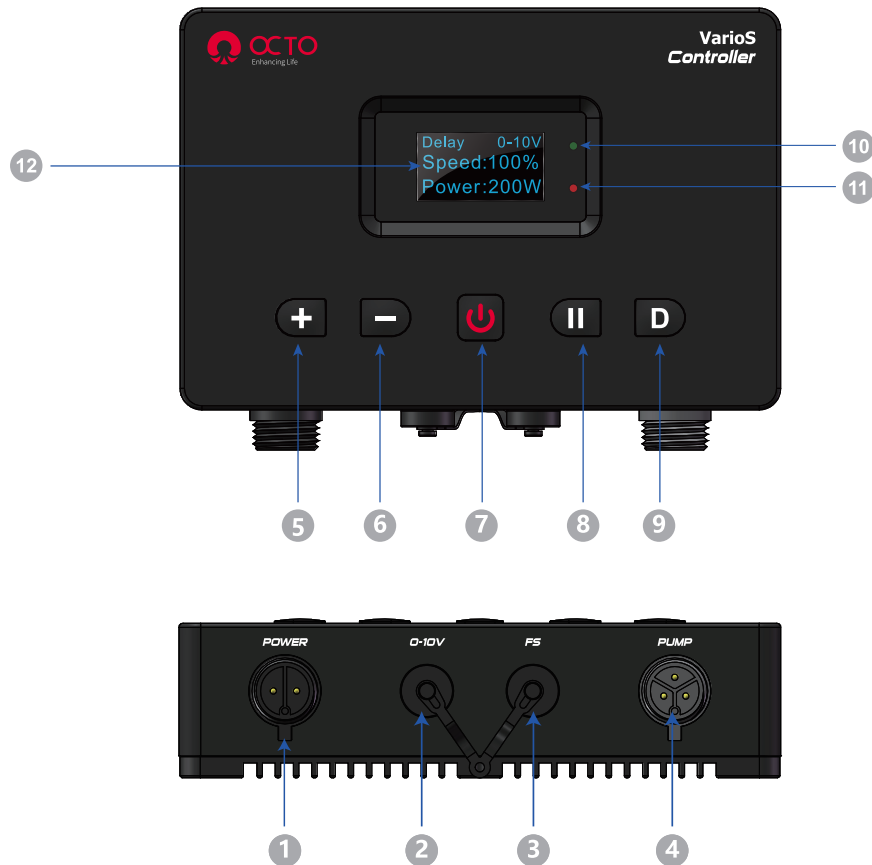
- Auto Top-Up Function (Float Switch “TOP” marking facing downward as per factory setting):
When the water level is lower than Float Switch in Tank B, pump will switch on automatically and fill water to the desired set level.
Pump will stop when Tank B is filled to the desired set level.



- 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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

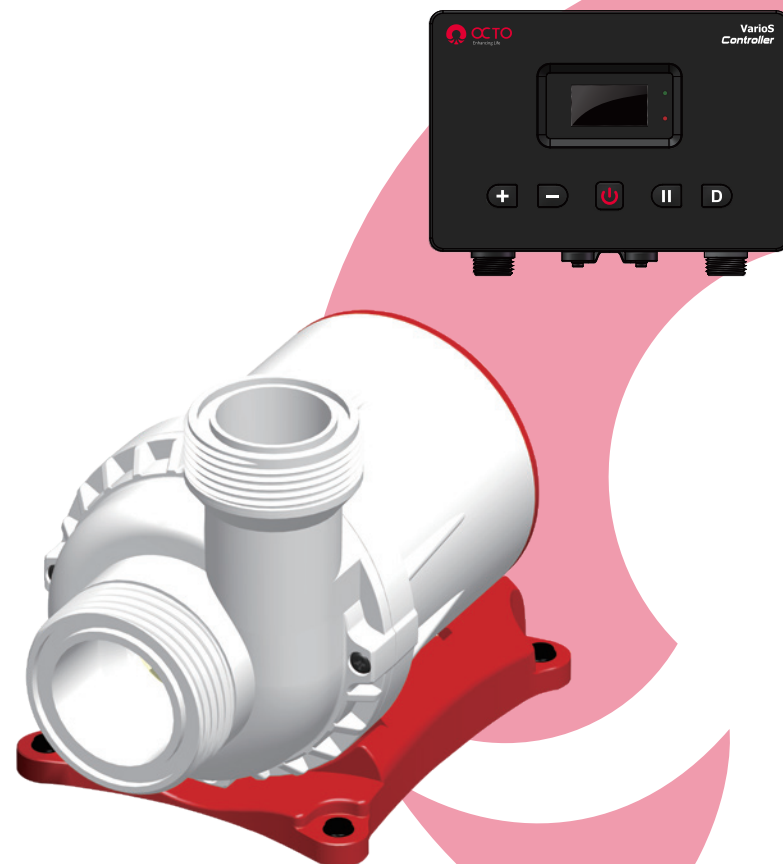


HONYA CO., LTD
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VarioS 10 水泵

产 品 说 明 书



亲爱的客户

感谢你选择OCTO产品！
为确保您的安全及使用时得到最佳效果，
请详细阅读此使用说明。

(阅读后，请保存这份手册，以备以后参考)

磁铁安全

•警告-产品含有强磁磁铁，请谨慎操作。

使用注意事项

● 使用VarioS 10 水泵前

拆除所有保护泵体，控制器和电源适配器的塑胶袋和包装材料。

● 电源安全

电源—请勿损害安全极性或接地式插头，请勿在您手潮湿的情况下拿插头或电源线。

电源线保护—请将电源线按一定路径放置，以便不会被放置在其上或其下面的物体踩踏或挤压，如果电源线损坏不可继续使用，需立即更换该电源线配套组件。

● 安装

安装仅限于室内，并且采用厂家提供和规定的附属装置和配件。

● 操作

使用控制器时，始终遵循使用手册中规定的操作说明。

● 热量

电源适配器和控制器需远离诸如散热器之类的热源，不要暴露于诸如太阳、火或其它类似物的过高热量环境中。

● 湿气

为了使用安全，降低火灾或电击风险，禁止把电源适配器和控制器暴露于下雨、潮湿、滴水或溅湿环境中。

水泵从水中取出时，避免一手同时提着泵和控制器；防止泵身的水顺着电线流入控制盒。

● 水损害

若电源适配器或控制器掉入水中，禁止伸手取出！首先应拔掉电源插头然后再取出。如内部的电子部件受潮，请立即拔掉该装置。

● 空载保护

泵体设计用于水下工作，请勿在没有进入水时运行。水泵控制器内设空载保护功能，无水运行1分钟泵会停转，需切断电源并确保水泵进水口有水后，再重新启动。

● 停转

许多因素会使水泵停止动作，请按手册说明中的“常见故障处理”内容检修。

● 清洁

请按手册说明定期清洁水泵。

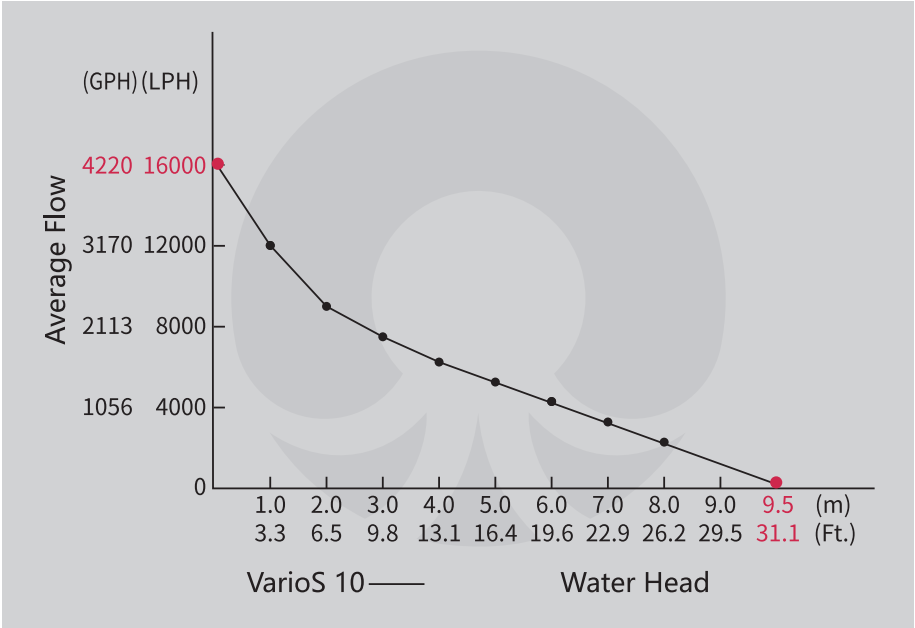
产品特点

- 高扬程设计
- 增韧耐磨陶瓷轴/轴套，更耐用，更安静
- 自带水路润滑和降温结构，有效降低泵腔和转子的工作温度
- 控制器带有电机异常保护功能，当控制器检测到电机异常，如短路/断路等，会切断电机电源，进入异常保护模式
- 控制器90级档位调速
- 可使用外部0-10V控制
- 可使用浮球
- 5mins延时启动(可选择)
- 暂停15 mins/60 mins
- 显示屏显示泵档位/功率或转速以及工作状态
- DC36V安全电压

产品规格

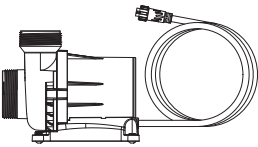
OCTO VarioS 10 循环泵										
产品编码	型号	电压	湿式/干式	最大功率			最大扬程		最大流量	
				W	m	Ft.	LPH	GPH	进水口	出水口
9010108	VarioS 10	DC36V	通用	200	9.0	29.5	16000	4220	Φ50 (1-1/2")	Φ40 (1-1/4")

流量曲线图

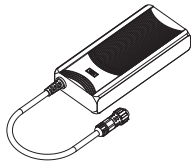


配件明细

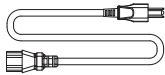
请检查包装内物件是否齐全



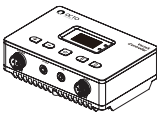
● 泵体



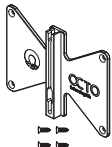
● 电源适配器(DC36V/7.0A)



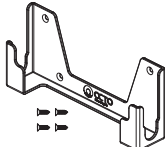
● 品字尾电源线



● 控制器
3010108003



● 控制器挂件和螺丝
4010108001



● 电源挂件和螺丝
4010108002



● 活接盖子(40mm)
1042000013



● 活接上件40mm(1-1/4")



● 活接O令(42*4)
1050100092



● 活接盖子(50mm)
1042000014



● 活接上件50mm(1-1/2")

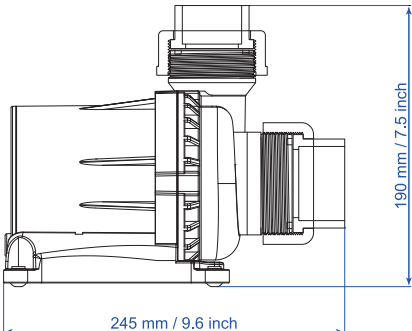
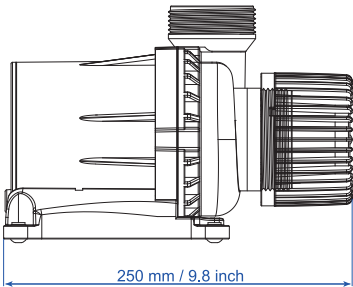
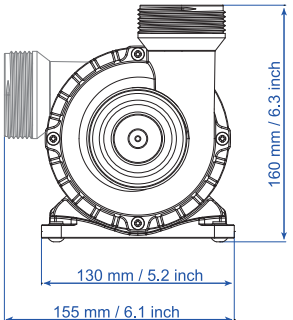
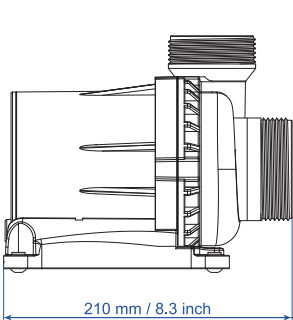


● 活接O令(50.8*4.6)
1050100093



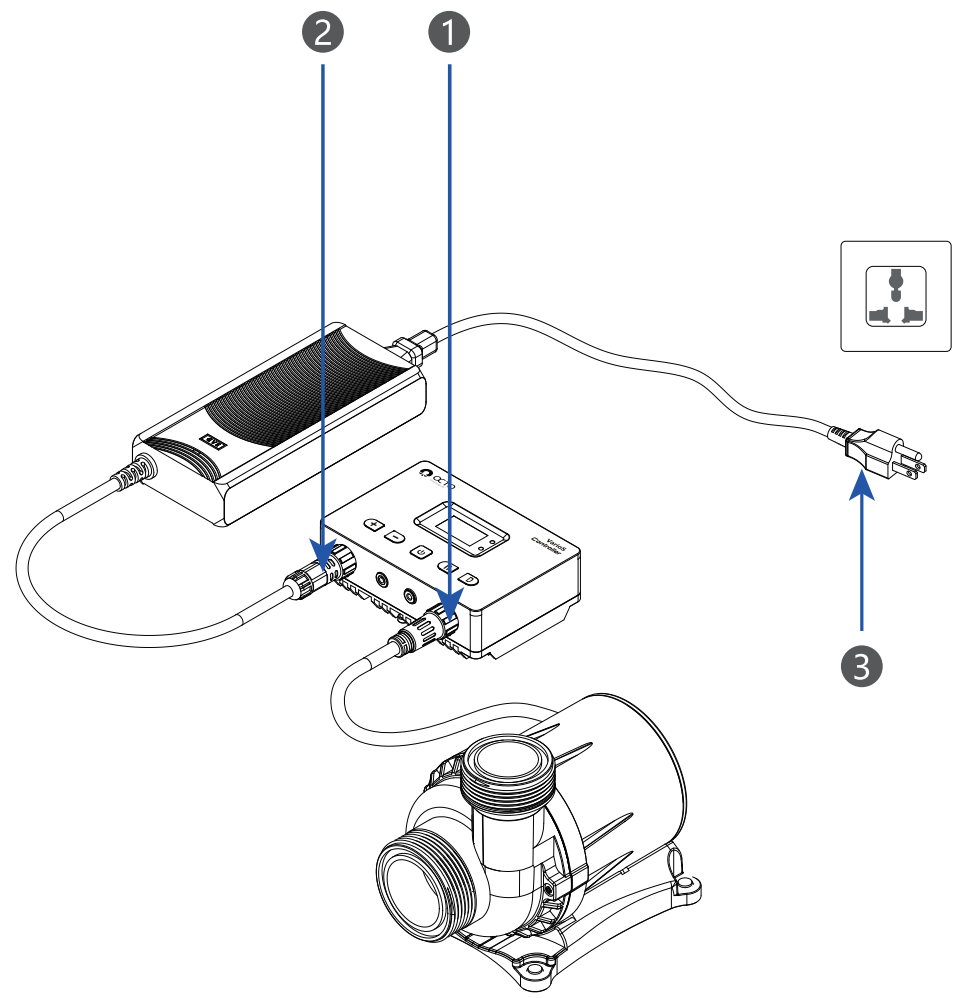
● 进水防护罩
4010108003

尺寸



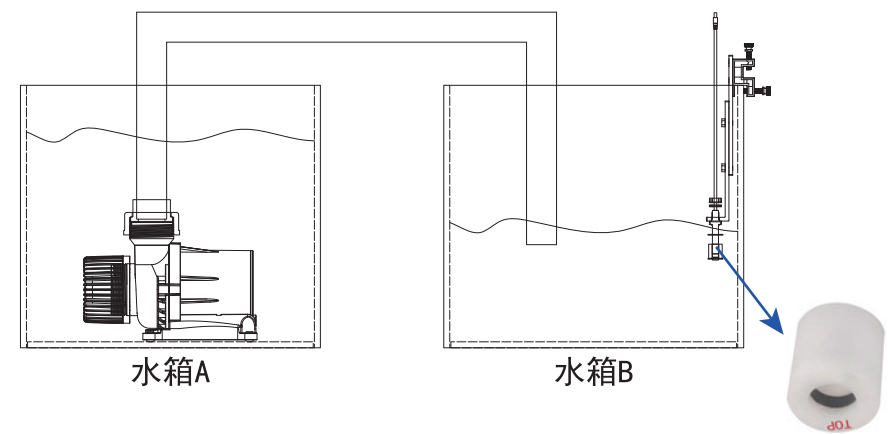
安装连接

水泵控制器具有保护泵体的功能设计, 使用时必须先连接
控制器与泵体(1处), 再连接电源适配器与控制器(2处)
最后电源适配器接通电源(3处)。

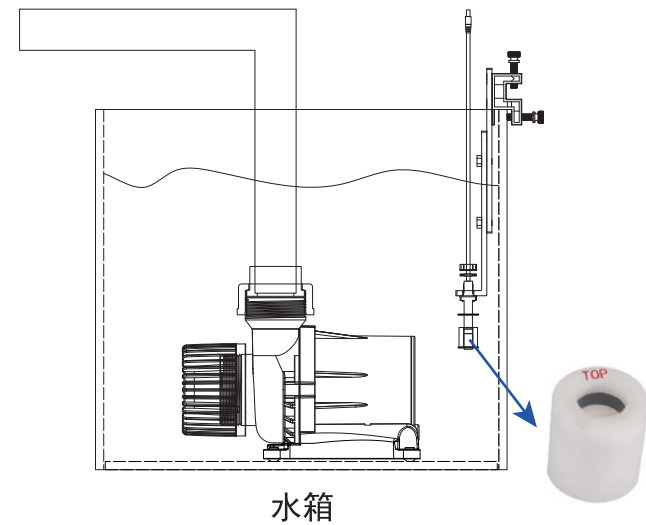


浮球的使用方法

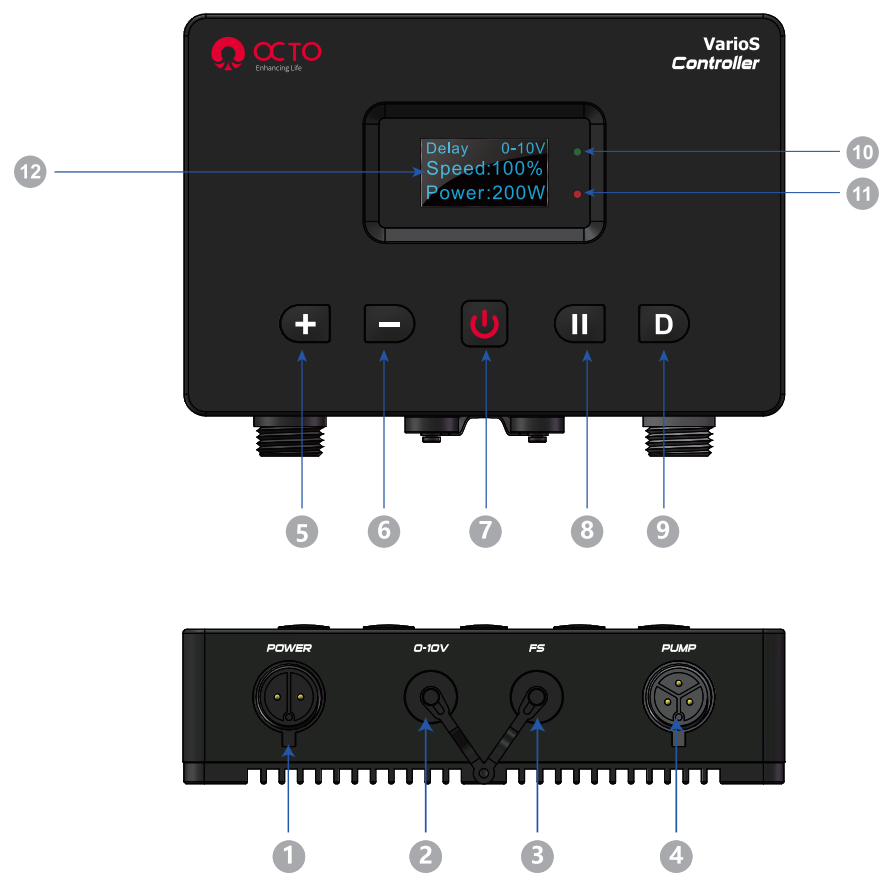
- 自动加水功能(浮球TOP面向下安装-出厂安装方式):
当水箱B水位低于设置的高度时, 水泵开始工作, 开始向水箱B加水。
当水箱B水位高于设置的高度时, 水泵停止工作, 停止向水箱B加水。



- 低水位保护功能(浮球TOP面向上安装):
当水箱水位高于设置的高度时, 水泵工作。
当水箱水位低于设置的高度时, 水泵停止工作。



控制器使用指南



串口定义

- 1 电源插孔, 接DC电源(DC36V/7.0A)
- 2 0-10V信号接入口(3.5mm三段音频口)
- 3 浮球接入口(DC 35135)
- 4 水泵接入口

按键定义

- 5 — 6 通过按(+)或者(-)调节档位; 长按, 可以快速调节。可调范围: 10%-100%;
- 7 电源键: 控制器通电默认开启, 按一次关闭, 再按导通; 暂停倒计时状态下, 按一次结束暂停模式, 水泵恢复工作; 延时启动倒计时状态下, 按一次结束延时启动, 水泵开始工作;
- 8 暂停键: 按一次暂停15分钟, 按两次暂停60分钟, 再按循环选择;
- 9 延时启动功能开关: 按一次(D)延时功能开启, 再按一次(D)延时功能关闭; 一旦延时功能开启, 后续每次上电, 泵会延时5分钟启动, 出厂默认此功能关闭, 长按(D)3秒, 切换显示功率或者转速, 出厂默认显示功率;

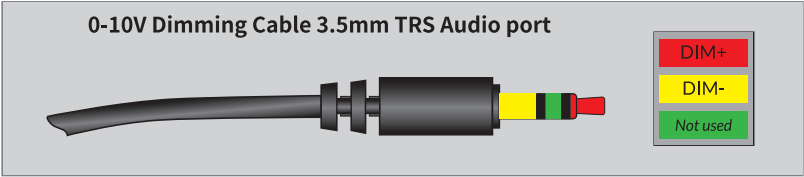
指示灯/显示屏

- 10 电源指示灯: 绿色, 控制盒上电, 此灯亮;
- 11 泵工作状态指示灯: 红色, 关机状态/暂停倒计时状态/延时启动倒计时状态, 此灯亮 泵异常/浮球动作, 此灯闪烁;
- 12 显示屏: 显示档位, 功率/转速, 以及泵工作状态; 三分钟无操作, 显示屏进入息屏状态, 按任意按键点亮显示屏。

注意

- 1 接入0-10V信号后, 显示屏会显示“0-10V”字样, 此时不能用控制盒调速。
- 2 三分钟无操作, 显示屏进入息屏状态, 按任意按键点亮显示屏。

3.5mm音频插线图:



拆装与清洁维护



Step 1



Step 2



Step 6



Step 7



Step 3



Step 4



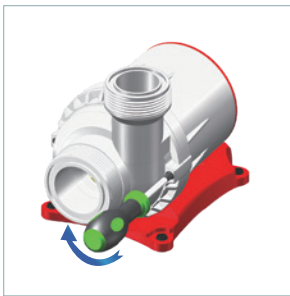
Step 8



Step 9



Step 5



Step 10

- 切断电源，取出水泵
- 用十字螺丝刀拧下四颗固定螺丝，拆下泵头(step 1/2)
- 用一字螺丝刀，撬动转子水叶板，取出转子(step 3/4)
- 清洗水泵和转子
- 检查转子水叶板平衡性：手持转子，拨动水叶板，如不平衡，需用手下压水叶板，使其平衡为止(step 5)

- 转子水叶板上圆形孔位对准泵身圆形凸起，装入转子(step 6/7)
- 检查叶轮，转动是否顺畅(step 8)，如不顺畅，取出转子，按(step 5)步骤检查后再装入
- 装上泵头，用十字螺丝刀拧上四颗固定螺丝(step 9/10)

常见故障/报警处理

ERROR

- 报警提示 (ERROR闪烁)

原因	解决办法
泵处于无水保护状态 (无水运转或者泵距离水面太近)	将泵放入水中/泵距离水面适当深些
轴打滑或者叶轮打滑	更换转子
没有连接泵或者泵和控制器之间的插头没插好	接上泵/重新接好泵和控制器之间的接头, 通电
没装转子	断电, 装好转子; 用手拨动转子, 要转动的很顺畅
堵转/卡转	拆开防护罩, 看是否有异物在泵腔及转子叶轮上; 安装转子, 用手手动波动转子, 要转动的很顺畅
电源输出不稳定/或者接头处接触不良	更换电源适配器, 排除电源适配器的问题

Notes

[illegible]