



 Intelligent Star  
ADVANCE CONTROLLER TECHNOLOGY FOR YOUR REEF

Leviathan 5000

# User Manual

# SAFETY GUIDE

Attachment are the warning levels with different situations  
Please read carefully to have the best performance and safety

## Classification of Warning

 DANGER	That is mean it has the possibility of serious injury to people or death immediately
 WARNING	That is mean it may cause the serious injury to people or death if keep running in this situation
 ATTENTION	That is mean it may cause property damage or even damage to people

## Meaning of Marks



## HANDLING OF POWER PLUG , POWER CORD & SOCKET

### WARNING

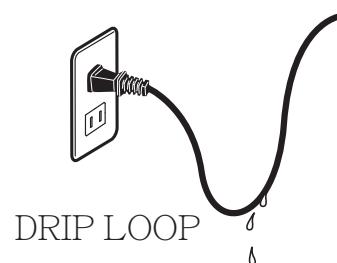
 Use the correct ballast come with the Leviathan and make sure the spec is suitable. Use others ballast may cause the damage to the pump and ballast. You can contact the distributor or the shop to replace / buy the ballast once the ballast was broken.

 FORBIDDEN Do not forcibly bend, pull, twist, slap, or place heavy objects on, pinch, or modify the power cord or power adapter. The power cord may be damaged, resulting in fire or electric shock.

 FORBIDDEN Do not connect or disconnect the power with wet hands. It may cause an electric shock.

 Insert the power adapter securely to the bottom Failure to do so may cause fire due to electric shock or overheating.

 Always have a drip loop on the power cord. Do not allow water droplets to travel through the cord and come in contact with the outlet since it may cause a fire or electric shock.



# SAFETY GUIDE

## HANDLING OF POWER PLUG , POWER CORD & SOCKET

### ⚠ WARNING

⚠ Please unplug the power during maintenance.  
It may cause an electric shock.

⚠ Dust on ballast needed to be cleaned regularly. Accumulated dust may cause fire due to moisture. Please wipe off with a dry cloth.

## INSTALLATION

### ⚠ WARNING

🚫 Do not install in places with the high temperatures (e.g near a fire, near a heater, under the scorching sun) or exposed directly under the sunlight. It can only be used indoors below 35 °C.

🚫 Do not install in places where the power cord or ballast may get wet. It may cause electric shock and leakage.

### ⚠ ATTENTION

⚠ Be careful when carrying or installing this product in order to prevent damage from product.

🚫 Do not install this product near to children, since there is an danger to children.

🚫 Do not use or placed at outdoors. It may cause overheat, explosion, etc.

## WHILE OPERATION

### ⚠ WARNING

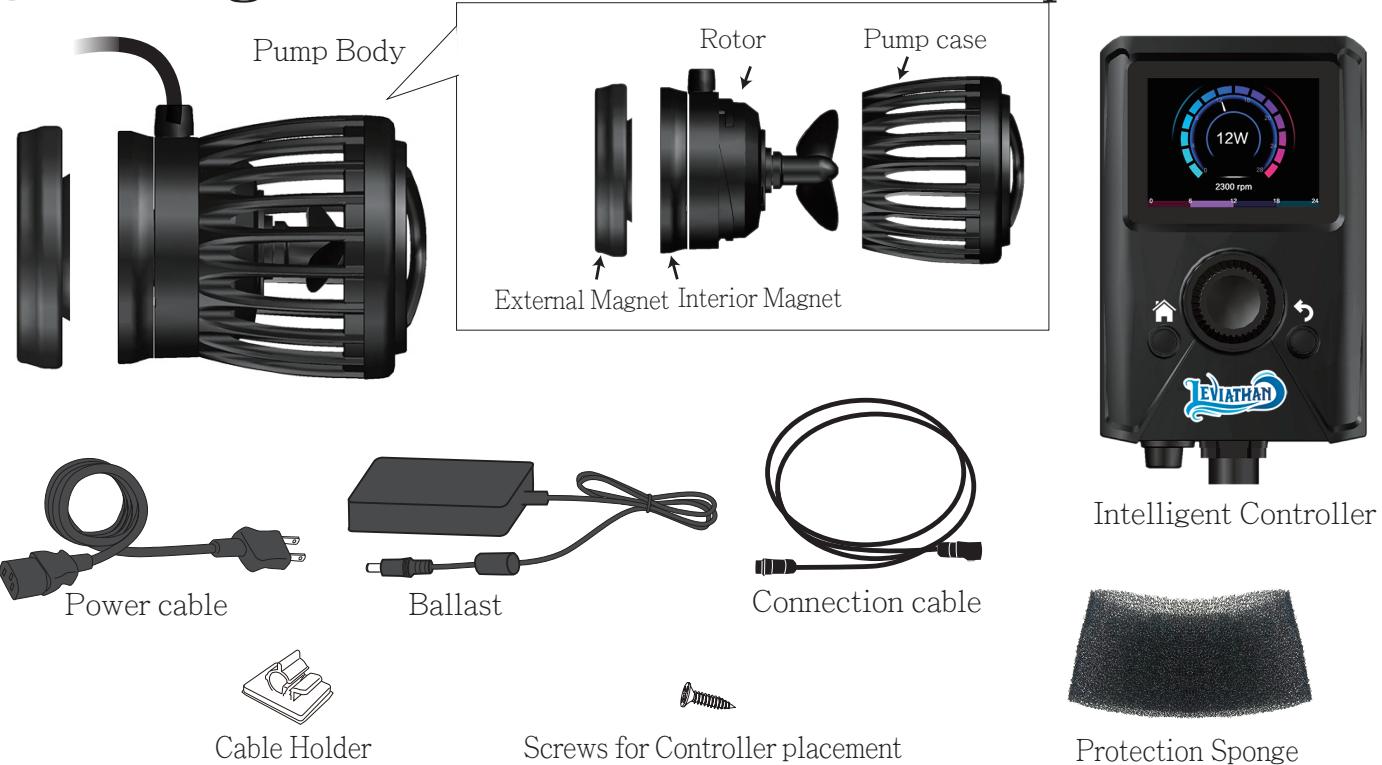
⚠ In case of abnormality (burnt smell, etc), immediately unplug the power and stop using it. It may cause overheat or fire. Please contact the retailer that you purchased or our company.

⚠ Do not operate when the pump can not circulate water or the body is not filled with water. It may cause damage or fire.

🚫 Do not modify or process this product by yourself. It may cause damage or injury to people.

⚠ ATTENTION  
🚫 Do not use for any purpose other than recommendation. It may cause an unexpected accident or danger.

# ● Package contents / Name of each part



## ● Before Use

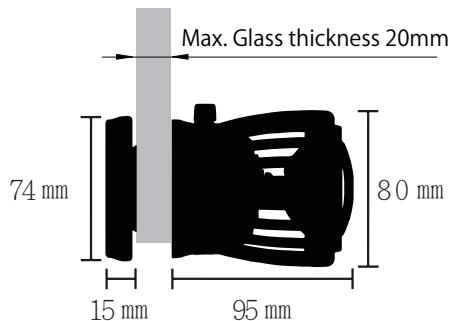


- ATTENTION**
- This product only use inside water.
  - Compensation for the live stock is not performed by stopping the pump.

- Make sure that the pump does not idle due to a drop in water level, etc.
- Please be careful that sand and foreign matter are not sucked into the body. It may cause serious damage. Also, the warranty can not be applied in this case.
- Do not use in corrosive or abrasive liquids.
- When holding the pump, do not lift the pump by the cord.
- Please clean the pump regularly to avoid the adhesion of lime algae, calcium components, and moss.
- Connecting the ballast to the controller before connected to the socket.
- Do not use any other adapter except for the one that we provided.

# ● Specification

Model	Leviathan 5000
FLOW RATE	50~20,000 L /h
CAPACITY OF AQUARIUM	150~2,200L
MAX. POWER CONSUMPTION	24W (±5%)
MIN. POWER CONSUMPTION	0.4W (±5%)
GLASS THICKNESS	Max. 20mm



# ● INSTALLATION

Do not turn on the power before the pump set up correctly inside the water.

1. Please clean the glass before you place the external magnet.
2. Place the pump in correct place and slide the external magnet close to the internal magnet.(see ref. at Right)



※ Do not attach the magnet together directly since it might cause injury and damage of the glass.  
※ If you place the pump too close to the corner of glass and it might cause noise / sound reflection

3. You can take out the rotor / pump body without remove the magnet.
4. Remove the cap of connector on controller before connect to the pump.  
You can use the extend cable if necessary.



## 5. CONNECTION GRAPH



**ATTENTION** FOR SAFETY USE THIS PRODUCT , PLEASE CONNECT EACH PARTS IN THE CORRECT WAY LIKE THE PICTURE ABOVE.  
MAKE SURE TO SETTING UP DRILL LOOP IN EACH WIRE AND LOCK THE CONNECTOR FIRMLY.  
THE PUMP WILL AUTOMATIC TURN ON IN MIN. POWER(5%) AFTER YOU CONNECTED ALL PARTS AND THE POWER CORRECTLY.

### ●FLOW DIRECTION ADJUSTMENT



### ●Cable & Controller placement

#### ①Cable arrangement

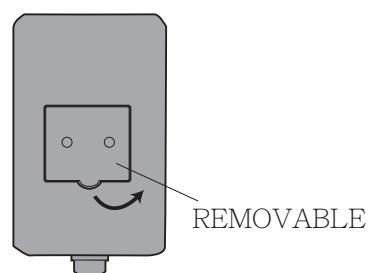
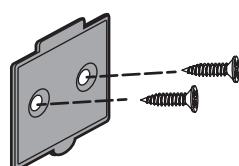
Use the cable holder to fix the cable as your wish.

#### ②Controller Placement

You can fix the controller with built in fix plate.

Remove the fix plate from the back of the controller.

Screw to fix the plate to the right position.



Make sure the direction is correct

## ●CONTROLLER INTRODUCTION

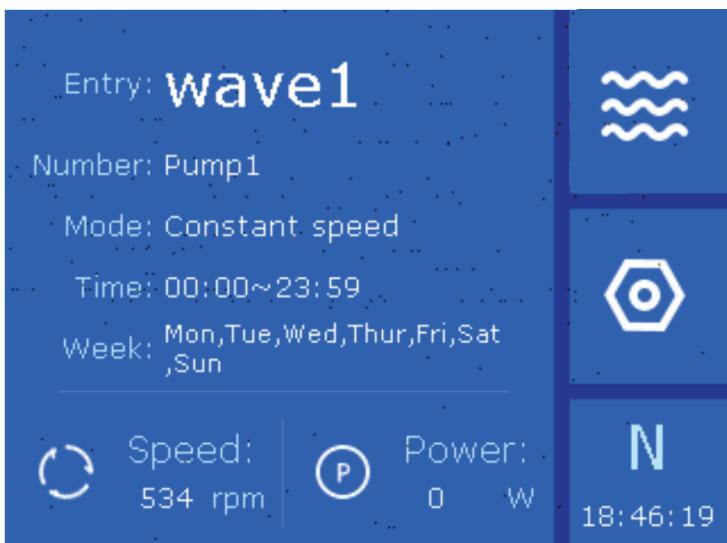


●HOME  
RETURN TO HOME PAGE

●DIAL  
CHOOSE THE OPTION AND  
PUSH TO CONFIRM

●RETURN  
RETURN TO LAST PAGE

## ●HOME SCREEN



Entry : Current Wave schedule.(Details please check “Wave schedule setting” )

Number : Current link up pumps.

Mode : Current mode of wave setting.

Time : Current wave setting operate time period.

Week : Current wave setting operate days in a week.

Speed : Current Speed (RPM) of the pump.

Power : Current power consumption of the pump.

Wave ICON (🌊): Setting wave schedule and details.

SettingICON (⚙️): Advanced setting of pump and controller.

N : Current connection status.

※N = Normal Mode.(No connection with other Leviathan pumps / Standalone operation)  
※M = Master Mode.(Master unit of connection with other Leviathan pumps)  
※S = Slave Mode.(Master unit of connection with other Leviathan pumps)

※If left unattended for a while, the power consumption and the speed(RPM) will be displayed on the standby screen.

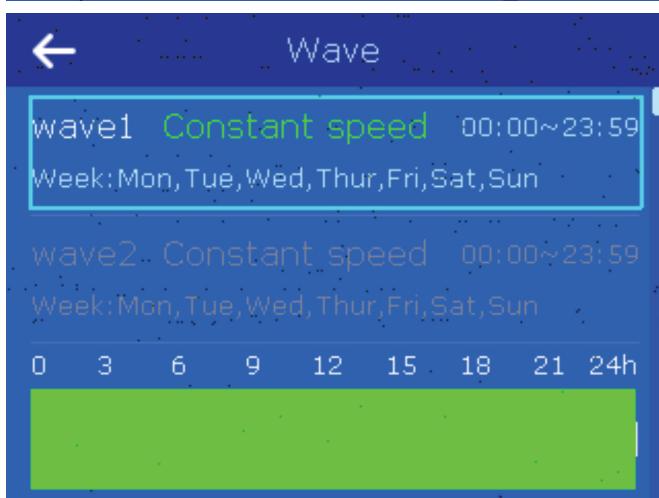
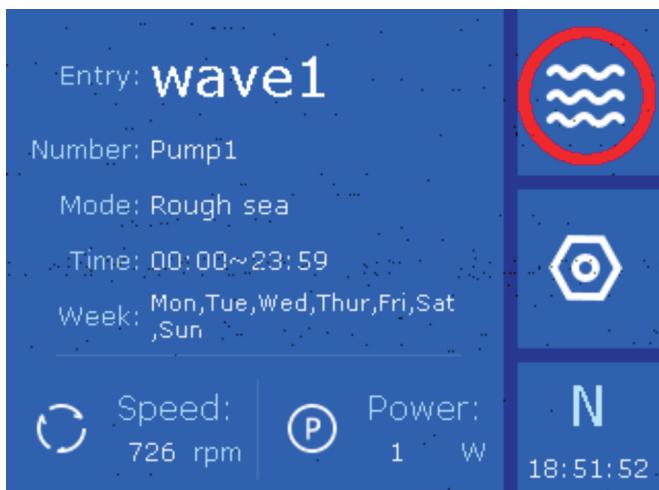
• Press any button to return to the home screen.



## ●WAVE SCHEDULE SETTING

Setting up the wave schedule by different mode , time period and days.  
You can set up as much as 16 different schedules per day.

1. Click on Wave ICON (波浪图标)



Press the dial, WAVE1, WAVE2, WAVE3....  
and the Wave settings are displayed.  
(e.g.WAVE1 is working on the left picture. )

2. Turn the dial to WAVE1 and press it to enter the setting interface.  
(Status , Mode , Time and Save will display at the interface)

Status :

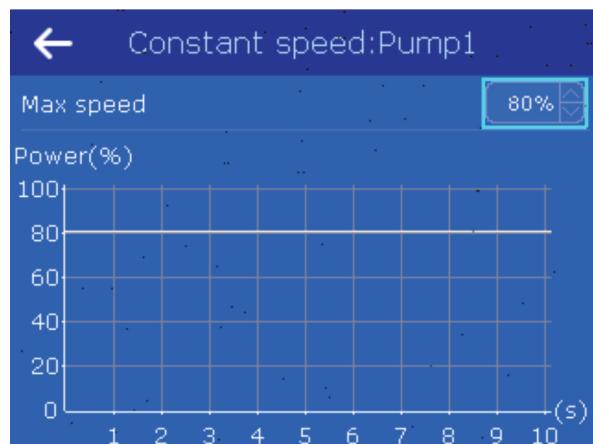
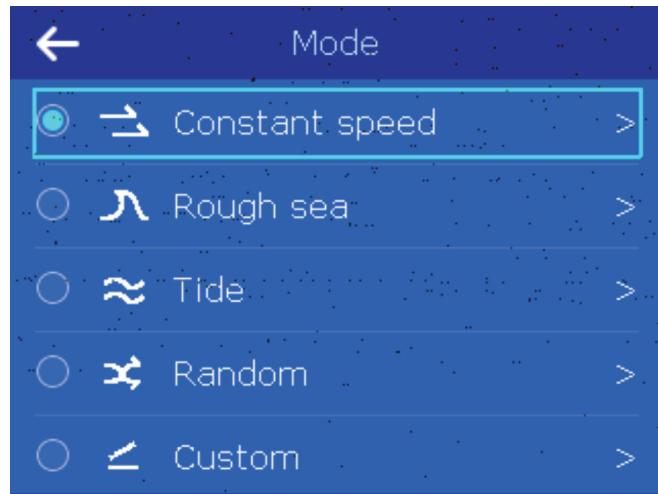
Turn on this schedule with ON /OFF option.



## Mode :

You can choose different wave modes. There are 4 pre set Mode :Constant , Rough sea , Tide ,Random. And Customs allows you to set up all details by advanced aquarist.

All settings are allowed to setup with details separately.

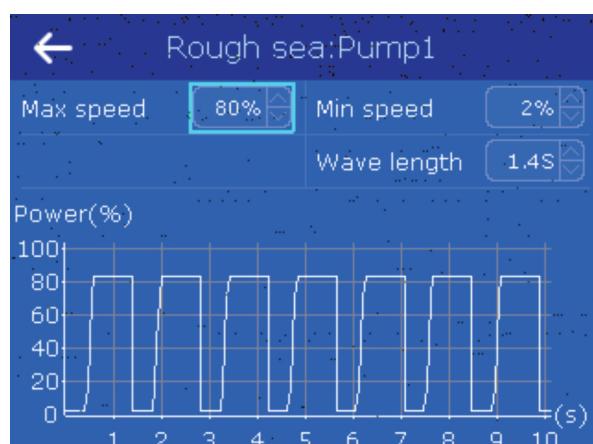


### Constant

Pumps are working with constant flow.

When you select constant mode, you will see the interface like the picture on the left, and you can set the power of the flow with the Max. speed.

The graph below shows the pump's power, the horizontal axis is the elapsed time, and the operation of the pumps being set.



### Rough Sea

Simulation of strong wave like a rough sea.

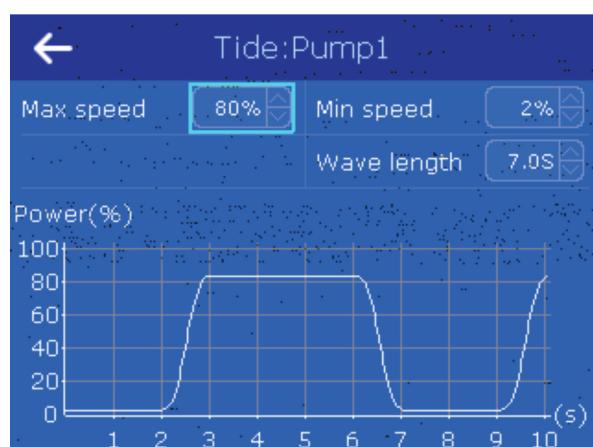
When you select Rough Sea, you will see the interface like the picture on the left.

You can set up the following items on this interface:

Max Speed: Maximum wave power

Min Speed: Wave minimum power

Wave length: You can set the wave intensity interval. The shorter the speed, the more gradual the wave strength changes.



### Tide

Simulation of tide, gradually changes strength.

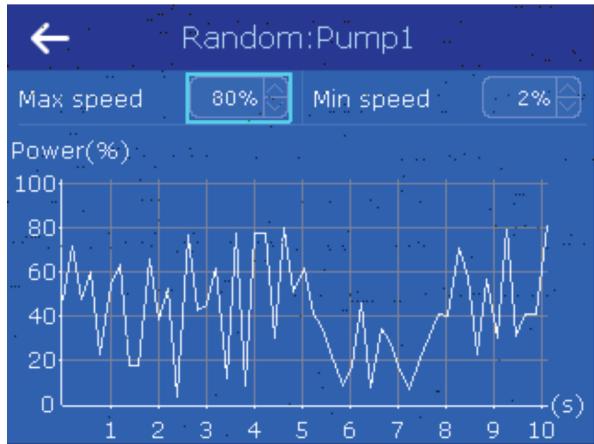
When you select Tide, you will see the interface like the pitcure on the left.

You can set up the following items on this interface:

Max. Speed: Maximum wave power

Min. Speed: Minimum wave power

Wave length: You can set the gap between the strength of the wave. The shorter the speed, the more gradual the wave strength changes.



## Random

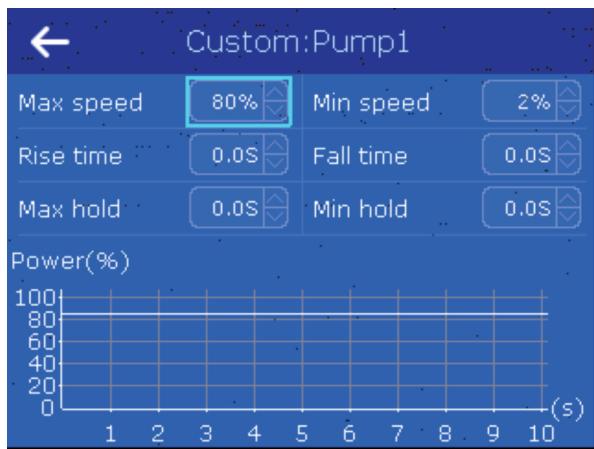
The gap between the strength and the wave becomes a random wave.

If you select Random, you will see the interface like the picture on the left.

You can set up the following items on this interface.

Max Speed: Maximum wave power

Min Speed: Minimum wave power



## Custom

Fully custom wave pattern for advanced aquarist

If you select Random, you will see the interface like the picture on the left.

You can set up the following items on this screen.

Max Speed: Maximum wave power

Min Speed: Minimum wave power

Rise Time: You can set the interval between the minimum and maximum times of the wave.

Fall time: You can set the distance between the waves from the maximum time to the minimum time.

## 【Luminous Dial Ring】

The Dial Ring will illuminate the color of your current wave pattern.

Constant (Green) , Rough Sea (Blue) , Tide (Pink) ,Random (Orange),Custom(Purple)

## Time :

Each wave schedule is available to setting up operate time period and day.

When you select time, you will see the interface like the picture on the right.

Weekday: You can set days of the week that the Wave schedule you are setting up currently.

Time range: Allows you to set the time period of the wave schedule you are setting up currently.



※To keep the Leviathan operate all day ,make sure to set up time range from 00:00 ~ 23:59

Please do not set up the time range from 00:00 ~ 00:00, it will not have any response for your setting.

## Save :

Make sure to save after adjust the setting in each wave schedule .It will not have any response if you did not save the setting.

## ●Setting of multiple wave schedule

You can set the time period and the day of the week to make the schedule of Wave2, Wave3... after setting up Wave1.The schedule can be set up to 16 schedule per day(Wave1 to 16).

E.g.: If the Wave1 and Wave2 time settings conflict, the priority will follow the first schedule .In this case , the schedule will follow Wave1.

## ●Feed mode setting

Holding Home button  for 5 seconds will start the feed mode.

Feed mode will start to count down for 10 minutes (you can setup time & power in setting page) and return to normal after finished.

Holding Home button  for 5 seconds will manually terminate feed mode count down.

On the standby interface, press the home button once, then press the home button for 5 seconds to start feed mode.

## ●Setting

Click the Setting ICON 

### ①Mode

Normal : Stand alone mode.

Master / Slave : Multiple Leviathan connection.

### ②Wi-Fi

Connect to the Wi-fi network for alert function.

### ③Feed

Custom Feed mode detail

Speed: Power of feed mode

Time: Leading time of feed mode

### ④Restore factory setting

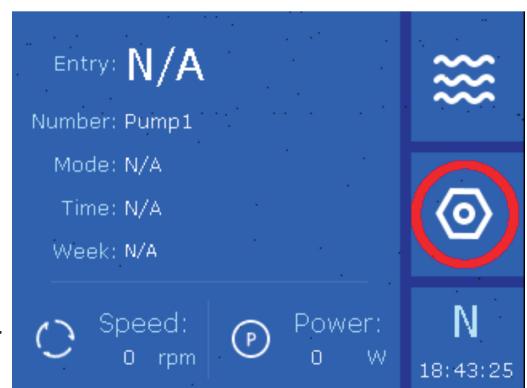
Restore factory setting

### ⑤Set system time

Set the time

### ⑥Alarm email

Register the E-mail address then the system will send email alert when error / power down occur .



## ● ERROR

①Jammed: Anything stuck the pump or jammed. System will send alert email automatically.

②Leakage of water: Water leakage warning. When there are leakage of water and the pump too close to the surface , the RPM will raise abnormally and system will send alert email automatically.

③Power down: Power down for more than 15 minutes.  
System will send alert email automatically.

Soluation of error : Solve the problem then restart the pump and controller.

## ●Multiple Leviathan connection

Leviathan can be connected up to 4 units.

### 【Method】

- ① Each leviathan is placed in aquarium.
- ② Click to Setting ICON  , and click to Mode , assign 1 Leviathan for a Master unit and others are setting to be Slave unit
- ③ Leviathans will automatic connected after restart from changing Mode .
- ④ After pumps connected in a loop , all slave unit will follow the wave schedule from Master unit.

## ●Maintenance

Please keep removeing dirty and calcium components regularly (at least once a month) for safety use. Also, please remove dust and dirt from electrical outlets and other place.

- ※ Make sure to unplug in the power before starting to maintenance.
- ※ Make sure you understand the structure of the pump.
- ※ Do not use detergents or stiff sponges or brushes.
- ※ When cleaning the power cord or outlet, clean it with a soft, dry cloth.

1. Remove the sponge from the pump and wash it with tap water.
2. To remove the rotor from internal magnet , twist the rotor counterclockwise.(See. Page 3)
3. Use the soft brush to remove the impeller for each part, and rinse well with tap water.

## ●Optional Parts

Back up battery module (Release on 2020)

Extension connector: Connects between the pump body and the controller to increase the convenience of cable extension and maintenance.

- If you have any trouble or question, please contact the shop you purchase or contact us.

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Global Distributor : ZOOX AQUARIUM LIMITED

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