



ALTIMA
PROTEIN SKIMMER

300S, 500S, 800S
1200P, 2500P, 3500P

User Manual

Thank you for purchasing the ZOOX Altima DC Protein Skimmer.
 This manual supports Altima DC Protein Skimmer 300S, 500S, 800S, 1200P, 2500P, 3500P.
 Please read this instruction manual carefully and understand the usage and structure before use.
 After reading, keep it in a place where you can read it again at any time.

Safety Guide

The precautions are for the safe and correct use of the product and to prevent harm or damage to the user or other people.

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

 FORBID	 FORCE	 UNPLUG THE POWER
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HANDLING OF POWER PLUG, POWER CORD & SOCKET

WARNING

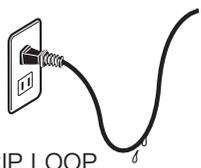
 The power supply is AC 100V, and the outlet with a rating of 15A or more need to be used alone.
 Use of an AC outlet other than 100V or using an outlet with other equipment at the same time may cause a fire or electric shock.
 If you need an extension cord, use the one with the correct rating. Using cords with amperage and wattage that are lower than the rating of the quipment may result in overheating.

 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.

 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.



DRIP LOOP

SAFETY GUIDE

HANDLING OF POWER PLUG, POWER CORD & SOCKET

WARNING



Unplug the power adapter when putting your hands in the aquarium or performing maintenance

It may cause electric shock.



When pulling out the power adapter from the outlet, hold the power adapter first, then pull it out.

If pulling out the cord while holding it, that may damage the cord and cause a fire or



Dust on power adapter 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 a 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.

ATTENTION



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



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

● Before use



- This product is an internal protein skimmer.
- We do not compensate for living bodies by stopping the pump or some other reasons, please be carefully.

Please read it carefully and use the pump according to the following precautions.

- Be careful not to let the pump run idle due to a drop in water level.
- Be careful that do not let the sand and foreign matter be sucked into the main unit. This can cause serious damage to the product. In this case, the warranty is not covered.
- Do not use with corrosive or abrasive liquids.
- When holding the pump, do not lift the pump by the cord.
- Please clean it regularly to prevent lime, algae, calcium and moss from adhering.
- Make sure that the adapter is not connected to the outlet before connecting the adapter to the controller.
- Do not use any adapter except for the original one.

● Specification

Model	Maximum Power Consumption	Rated voltage / frequency	Maximum water capacity		Body size (cm)	
			Air inflow (L / h)	Flow rate (L / h)		
300S	15W(±5%)	100-240V 50/60Hz	300L	100-400	200-600	W21xD16xH45.5
500S	25W(±5%)	100-240V 50/60Hz	500L	100-600	200-1000	W24xD19xH47.5
800S	25W(±5%)	100-240V 50/60Hz	500L	100-600	200-1000	W24xD19xH47.5

Water Temperature : Below 35°C

※Does not include controller power consumption.

● Package Contents / Part Names (300S,500S,800S)

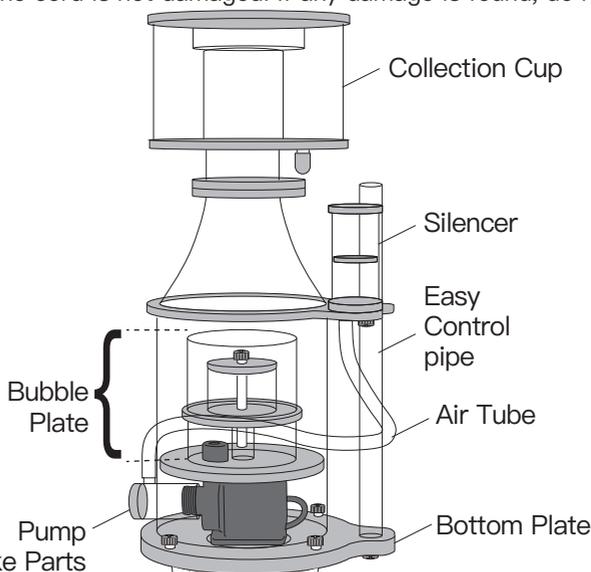
Remove the main unit and all attached parts from the box and check if there is any damage during transportation.

In particular, make sure that the cord is not damaged. If any damage is found, do not use it and contact your dealer.

● Protein skimmer body

● Controller

● Instruction Manual
Controller



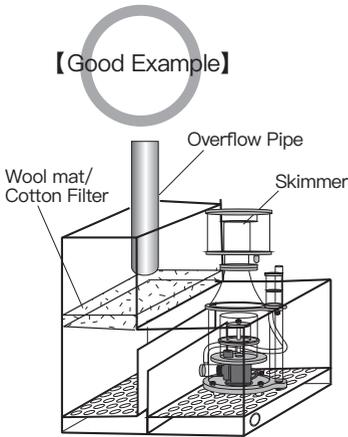
● Filtration Tank

The sump in which the protein skimmer is installed should have a structure that allows the breeding water to pass through a physical filter (such as a wool mat), please make sure it can pass through the inside of the protein skimmer without any trash.

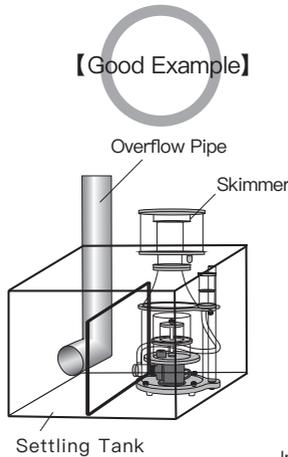
Large garbage (such as live rock fragments and coral sand) may cause clog and lead to pump failure.

Also, for those rearing with the Berlin System (protein skimmers only), similarly, physically treat with wool or set up a sedimentation tank in the filtration tank.

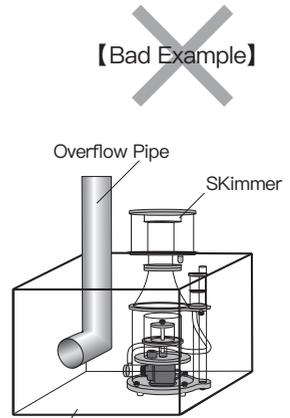
【Good Example】



【Good Example】



【Bad Example】



In the market available glass tank, Physical filter (Wool mat) and filtration tank without sedimentation tank

● Installation Method (300S,500S,800S)

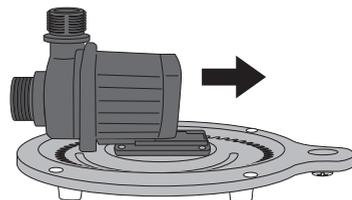
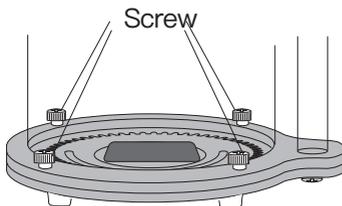
Introduction

Please be careful. When using protein skimmers, it is not possible to use mucosal protective agents or other products that increase the viscosity of water.

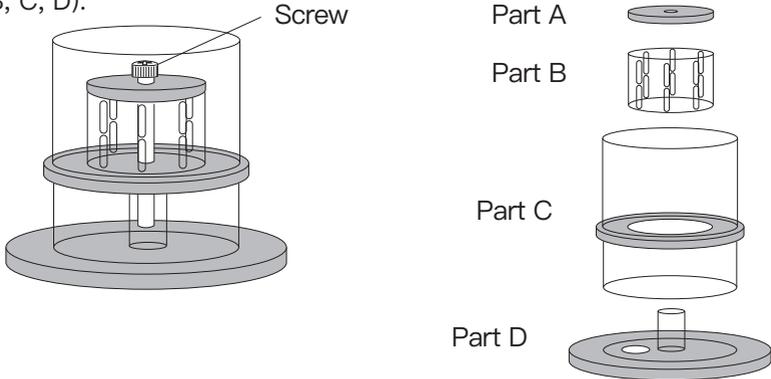
Be very careful not to let the pump run idle due to a drop in water level.

Please clean the body and the pump completely before using.

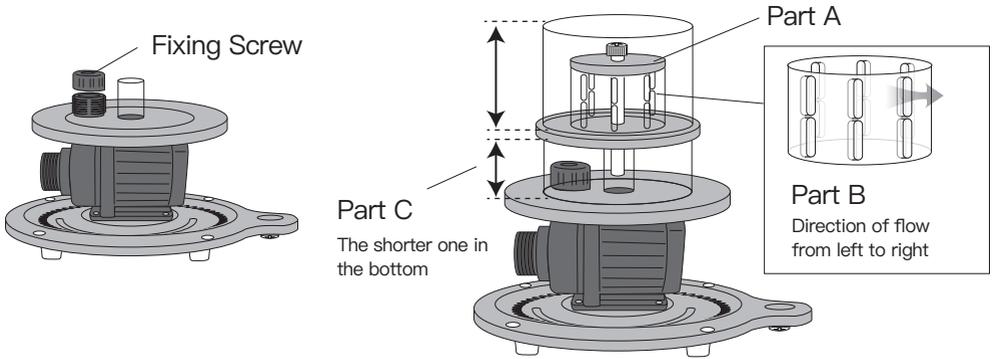
1. Remove the four screws on the bottom and remove the bottom plate.
2. Slide the pump into the pump mount and attach it.



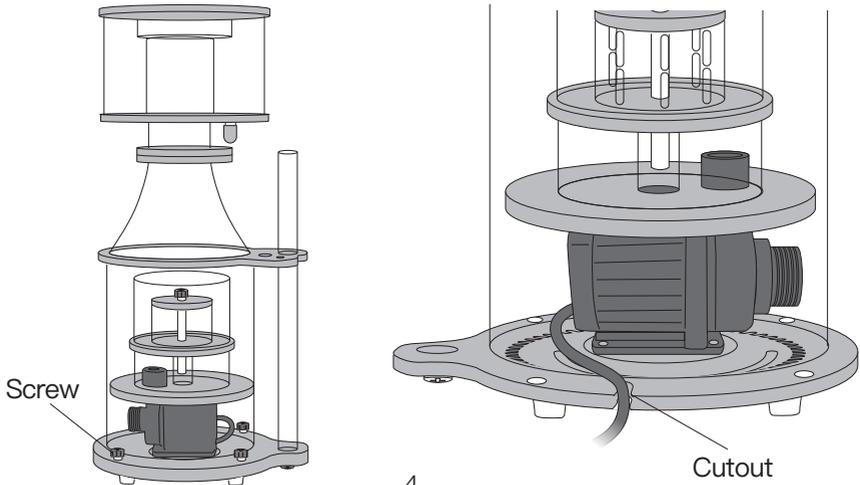
3. Remove the screw at the center of the bubble plate and divide it into four parts (A, B, C, D).



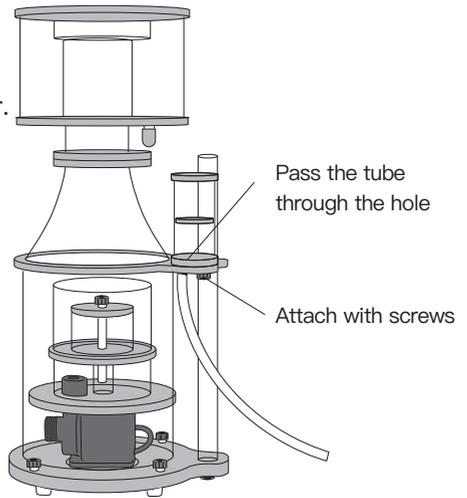
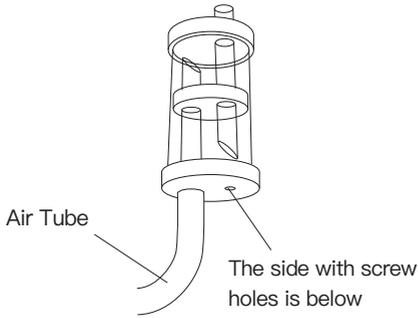
4. Place the parts D on top of the pump, and fix it with the fixing screw. After that, stack parts C, B and A and fix them with screws.



5. Put the main unit on the bottom plate and fix it with 4 screws. At that time, insert the pump cord into the cutout in the bottom plate.



6. Attach the silencer to the body by using screws.
Attach the air tube below the silencer.

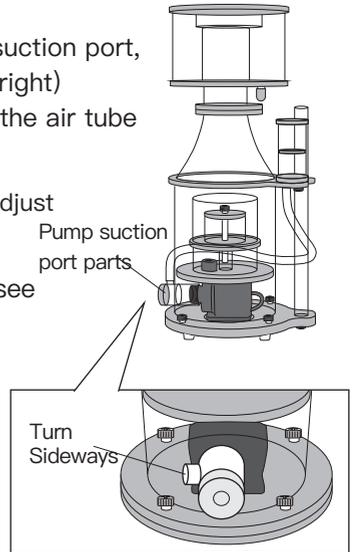


7. Attach the pump suction port part to the pump suction port, and attach the air tube. (Like the picture on the right)
At that time, please be careful to avoid bending the air tube towards the pump water inlet parts.

※If the water inlet part does not fit easily, please adjust by using pump mount screw.

8. Install this machine in the filtration tank, please see “Filtration Part” on the page 2.
Adjust the water level within the recommended water level mark.

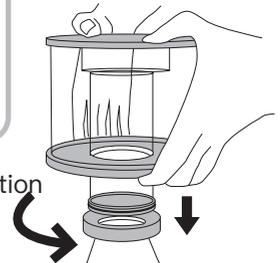
Recommended water level width:
22cm–25cm



About the water level in the sump

Use this product within the recommended water level range.
If the water level is higher than the recommended water level width, it may cause overflow.
Also, when the water level is lower, bubbles will not rise to the collection cup.

In order to prevent water leakage, remove the collection cup, push it in firmly, and then rotate it.



9. In order to avoid running idle, fill the inside of the pump with water

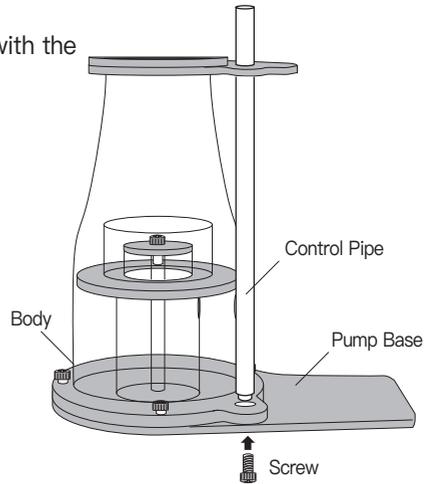
● Installation Method(1200P,2500P,2500P)

Introduction

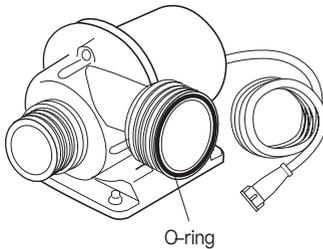
Please be careful. When using protein skimmers, it is not possible to use mucosal protective agents or other products that increase the viscosity of water.

Be very careful not to let the pump run idle due to a drop in water level. Please clean the body and the pump completely before using.

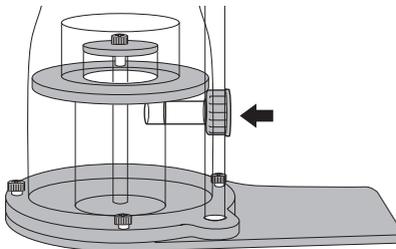
1. Insert the adjustment bar and fix the bar with the gear and screw from bottom.



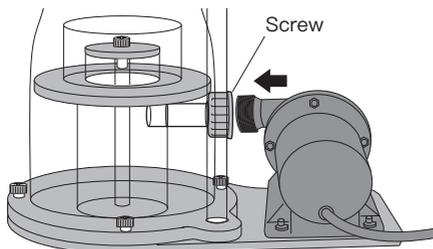
2. Install the O-ring.



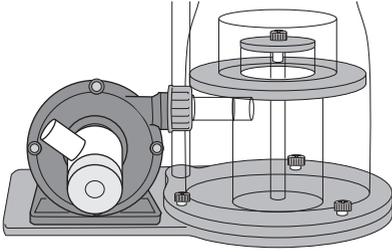
3. Insert the pump outlet to the skimmer body.



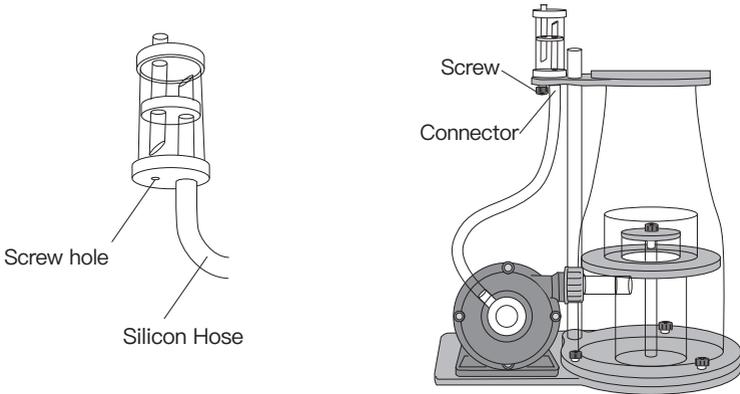
4. Screw and fix the pump outlet into the skimmer body.



5. Install the watand air intake (Venturi).



6. Install the silicon hose from the pump to silcener .
The silcener can fix with screw come with the package.



7. Place the skimmer in correct filter sum(See page 3)

Recommended water level : 20~25cm Optimal Water level : 22~23cm

About the water level in the sump

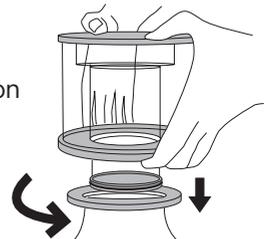
Use this product within the recommended water level range.

If the water level is higher than the recommended water level width, it may cause overflow.

Also, when the water level is lower, bubbles will not rise to the collection cup.

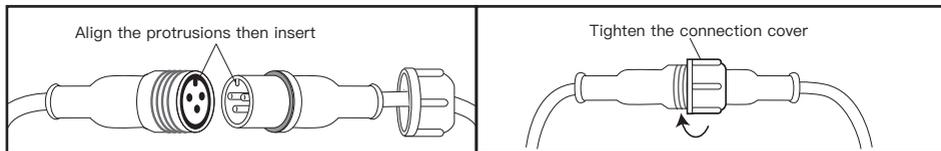
8. In order to prevent water leakage, remove the collection cup, push it in firmly, and then rotate it.

9. In order to avoid running idle, fill the inside of the pump with water



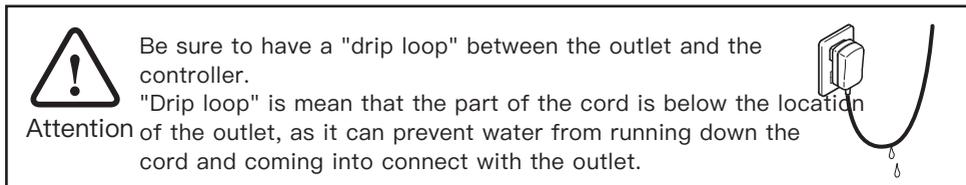
● Controller Connection

1. Please connect the joint part of the pump and the controller with the following connection method.



2. Check that the main unit is under the water, so that the inside of the main unit is filled with water before connecting the plug to the outlet.

※Please be careful that not to let the pump run idle, since it may cause damage to the pump.



● Adjust usage in skimmer (300S ,500S,800S)

There are two ways to adjust the water level and foam volume in the skimmer.

You can make the adjustment by using both method.

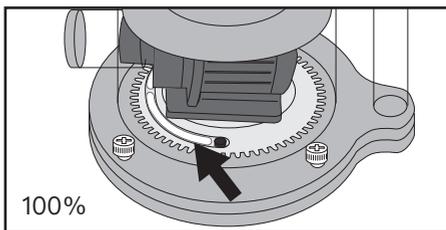
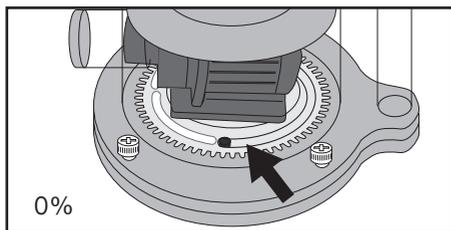
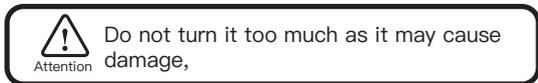
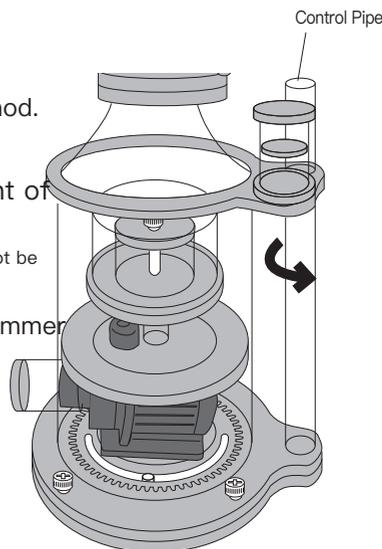
① Control Pipe

It is a variable valve that can adjust the amount of drainage from 0 to 100%.

(If it is set to 0%, water will overflow from the air outlet, so it can not be actually set to 0%.)

Turn the pipe so that the water level inside the skimmer stabilizes at the ideal water level. (See next page)

Turn clockwise to increase drainage and turn counterclockwise to increase water level.



② Flow Control Controller for 300S,500S,800S,2500P,3500P

The flow rate of the pump can be adjusted from 1 to 9 using the controller.



Power Button
Turn the power ON / OFF.



- Button
Reduce pump power and reduce flow rate.



+ Button
Increase pump power and increase flow rate.



Feed Button
Press once to stop pump for 30 minutes.

※After the set time has elapsed, it will automatically start running at its original power.

Flow Control Controller for 1200P



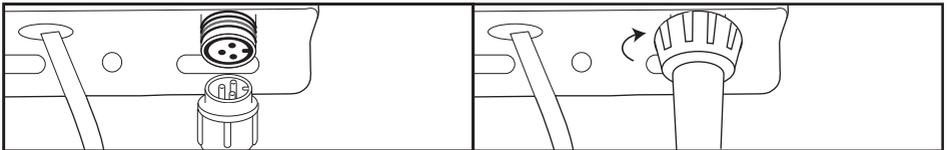
Power Button
Tap once for 30mins feed mode.
Tap twice to turn the power ON / OFF.



Reduce pump power and reduce flow rate.



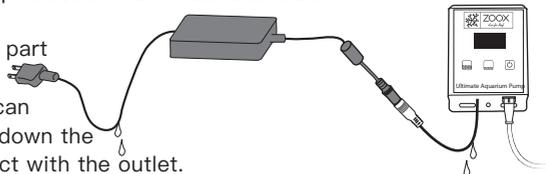
Increase pump power and increase flow rate.



Attention

Be sure to have a "drip loop" between the outlet and the controller.

"Drip loop" is mean that the part of the cord is below the location of the outlet, as it can prevent water from running down the cord and coming into connect with the outlet.





Attention

Note that if the water level at the installation site drops due to evaporation or some other reasons, not only will the skimmer's capacity be reduced, but also the pump will draw in air and cause damage.



Attention

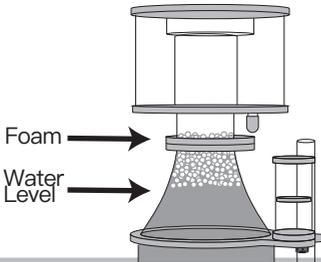
It is recommended to use the pump at an output of 60 to 70% with good pump operation efficiency. Constant operation at 100% accelerates pump wear.



A large amount of foam may be generated immediately after the initial setting, after water change, and immediately after maintenance. Please check regularly.

Adjustment Guide (Dirt Removal Condition)

Use the above method to adjust the dark brown to black viscous contaminants in the cup. If water colour is light yellow to brown and it is accumulated in the cup, lower the amount of foam and the water level to see how it looks.



Ideal balance between water level and foam

※At the beginning of setting, after changing water, or after adding additives, the balance between water level and foam as shown in the figure may not be maintained, but this is not a problem.

●Maintenance

- Clean the collection cup once a week. Regular cleaning will remove more contaminants (if more than one-third of the contaminants have accumulated). At that time, use a soft cloth without using detergent, and clean it with warm water.
- Clean the air tube once a week.
If the air tube gets clogged, the air flow will decrease and the capacity will drop dramatically.
- Once a month, check that calcium has not settled on the inside of the motor, impeller, and water supply port, and if so, remove it with a cloth or brush.
For areas where brushes do not enter, dissolve calcium using acetic acid solution.

- ※Be sure to unplug the power from the outlet and the power is not turned on.
- ※Make sure you understand the structure of the pump before proceeding.
- ※Do not use detergents or hard sponges or brushes.
- ※Clean the power cord and outlet with a soft, dry cloth.

● Specification

Model	Power Consumption [*]	Aquarium capacity	Ideal for SPS dominated	Air intake(L / h)	Flow rate (L / h)	Dimension (cm)
1200P	15W(±5%)	300L	300L	100-400	200-600	W21xD16xH45.5
2500P	25W(±5%)	500L	500L	100-600	200-1000	W24xD19xH47.5
3500P	25W(±5%)	500L	500L	100-600	200-1000	W24xD19xH47.5

Water Temperature : Below 35°C

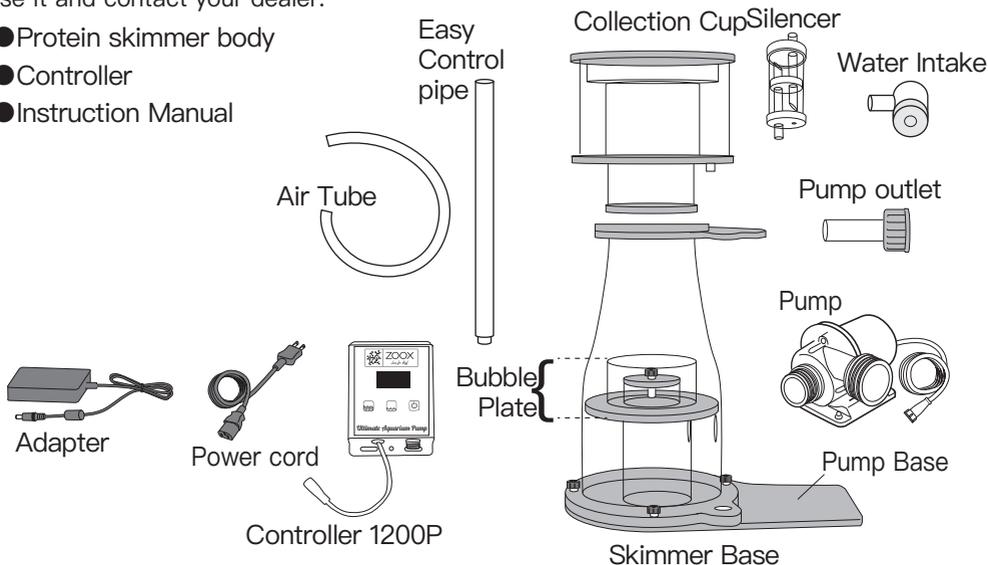
※Does not include controller power consumption.

● Package Contents / Part Names(1200P,2500P,3500P)

Remove the main unit and all attached parts from the box and check if there is any damage during transportation.

In particular, make sure that the cord is not damaged. If any damage is found, do not use it and contact your dealer.

- Protein skimmer body
- Controller
- Instruction Manual



Controller 2500P / 3500P

● Adjust usage in skimmer(1200P ,2500P ,3500P)

There are two ways to adjust the water level and foam volume in the skimmer.

You can make the adjustment by using both method.

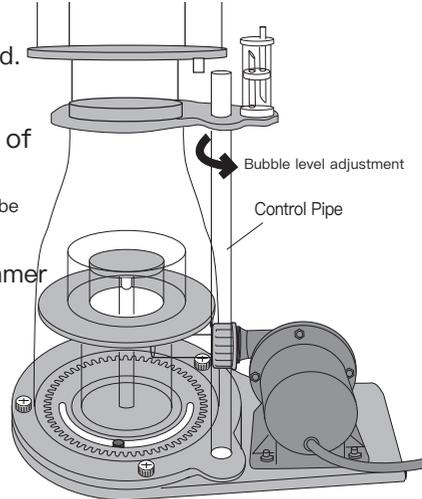
① Control Pipe

It is a variable valve that can adjust the amount of drainage from 0 to 100%.

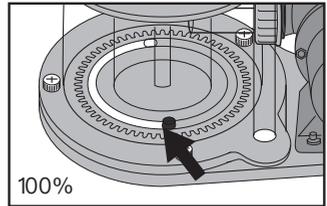
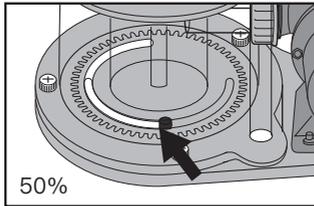
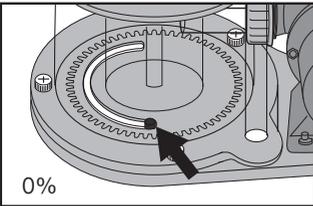
(If it is set to 0%, water will overflow from the air outlet, so it can not be actually set to 0%.)

Turn the pipe so that the water level inside the skimmer stabilizes at the ideal water level. (See next page)

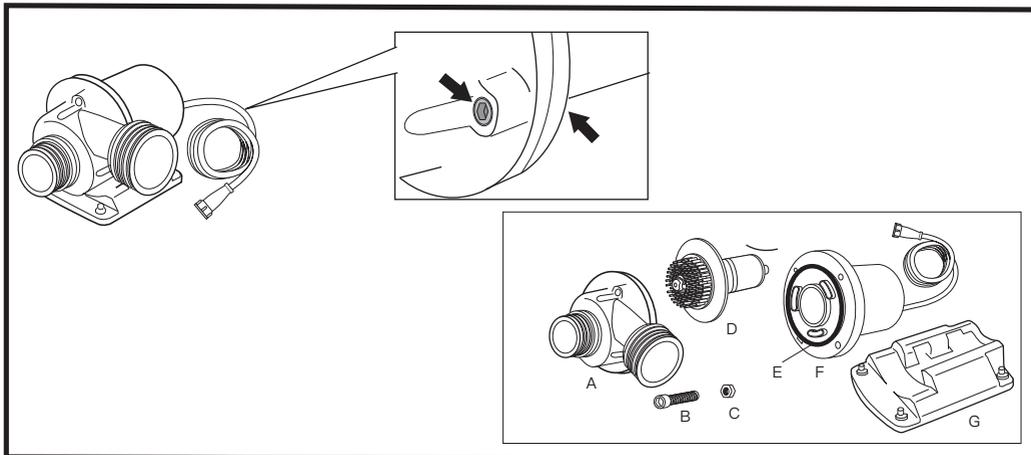
Turn clockwise to increase drainage and turn counterclockwise to increase water level.



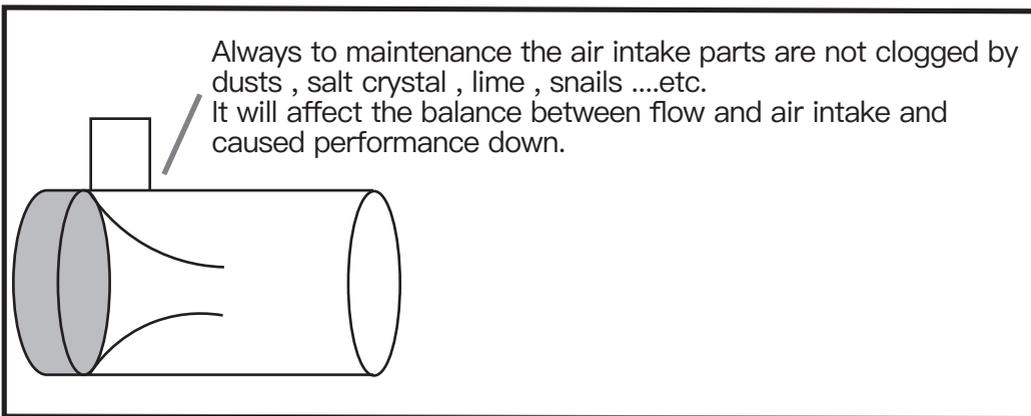
 Do not turn it too much as it may cause damage,
Attention



Guide for maintenance the pump of 1200P ,2500,3500P



Guide for maintenance venturi intake for all model.



● Consumable Parts



The following parts are consumables. Please check and replace them regularly.

Attention O-ring, impeller, pump, air tube

● Altima Skimmer Warranty

- Please note that consumable parts such as impellers and motors cannot be replaced even during the warranty period because the frequency of wear varies depending on how you use them.
- We cannot accept any guarantee of death of living organisms due to use of this product.

● Frequent Q&A

- Water overflows into the collection cup.

Check that the water level of the filtration layer and the appropriate water level of the skimmer are the same.

If any additives are used, make sure they do not affect the skimmer.

During the start-up of the aquarium, such symptoms may occur after adding additives such as coral food. Adjust the control pipe to lower the water level, or adjust the pump flow rate with the pump controller.

Also, mucosal protective agents cannot be used. Once the mucosal protective agent is added, several water changes are required to be made.

- The foam pops out and does not reach the collection cup.

Check that the water level of the filtration layer and the appropriate water level of the skimmer are the same.

In addition, this problem may be seen during the beginning of the aquarium, after changing water, and after adding additives. This is not a big problem, just place it for a while.

- There is water leakage or air leakage from the O-ring.

Each O-ring (rubber packing) deteriorates due to various factors. Please check and replace it regularly.

- Pump does not work.

The pump is a consumable item. It deteriorates with use. Replace it regularly. Also, please be careful that low water level will make it run idle, and it may cause serious damage to the pump even the pump have protection.

- Pump is running but no bubbles are generated.

While dust or salt being clogged from the air tube to the pump suction part, air cannot be sucked in and no bubbles are generated. Please clean this area

- Bubbles in skimmer are too large.

Check the salt concentration in the aquarium. If the salt concentration is low, the skimmer will not have a good performance.

- Easy control pipe does not rotate.

Adjust the screw or pump mount on the bottom of the easy control pipe. Check if the gear valve clogged by dust, sands or rocks .

● In case of trouble

If you have any troubles or problems, please contact us from our homepage, fill in your name and problems and your E-mail, or contact the shop where you purchased.

Contact US E-mail : info@zooxaquarium.com

ZOOX AQUARIUM LTD

<http://www.zooxaquarium.com>

ZOOX AQUARIUM LTD

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Instagram : http://www.instagram.com/zoox_aquarium