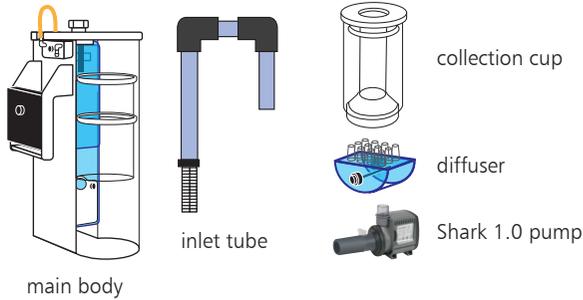


### Before Installation

Please check if there's any damaged or lost parts.

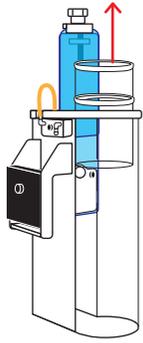


### Recommendations

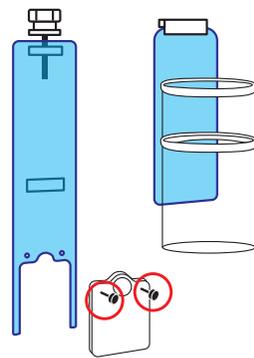
1. While we take great care to keep any contaminants away from our products during assembly, please take a moment to clean before attaching them to your tank. Please clean with warm water ONLY. Never clean Acrylic with alcohol-based products. Use caution when handling acrylic scratches easily.
2. It may require 2 – 4 weeks for the skimmer to reach optimal performance due to tiny amounts of oil or remnants left from manufacturing. Skimmer performance may be erratic during this time; be sure to allow ample time for the skimmer to break-in before making adjustments.
3. Regular maintenance of the pump will ensure a long life and maximum performance: recommended every 3 months.
4. For best performance, clean the collection cup frequently with a sponge and warm water.

### Assembly

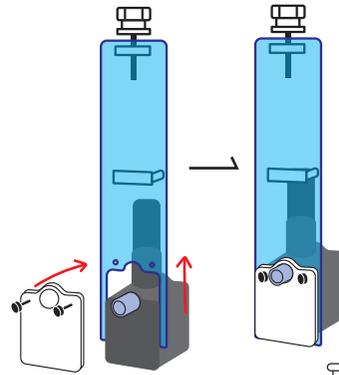
1. Pick up the inside plate.



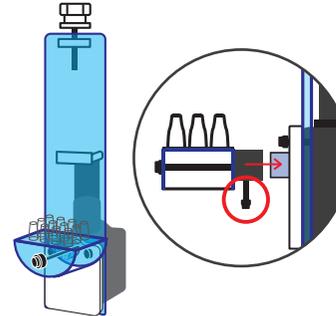
2. Loosen the screws marked on the image to separate the cover.



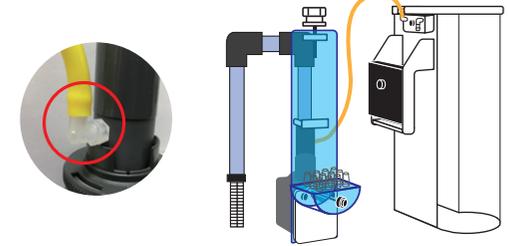
3. Combine the pump to the inside plate, Screw back the cover.



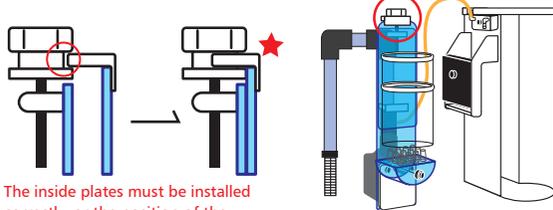
4. Loosen the screw under the diffuser to install the diffuser, screw back when the diffuser is in position



5. Connect the inlet tube and the air hose to the pump.

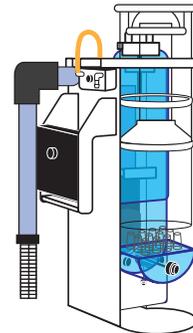


6. Install the inside plate which has collection cup holder onto the other inside plate.



The inside plates must be installed correctly, or the position of the collection cup cannot be adjusted.

7. Put the inside plates into the main body, and install the collection cup.

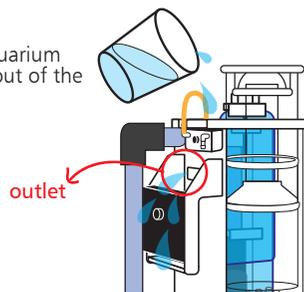


### Select a suitable place to set your protein skimmer

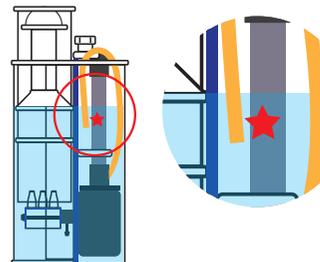
1. The aquarium's water level must not be more than 100mm from the aquarium's rim.
2. The water intake of inlet pipe must be completely submerged underwater when in use.
3. Hang the protein skimmer on the aquarium.  
Adjust the screw on the outlet sponge, so the skimmer is parallel to your aquarium.  
**Caution! Over-tightening the screws will damage the skimmer!**

### To Start

1. Fill skimmer with aquarium water until it flows out of the outlet.

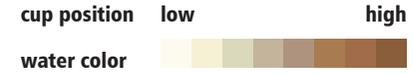
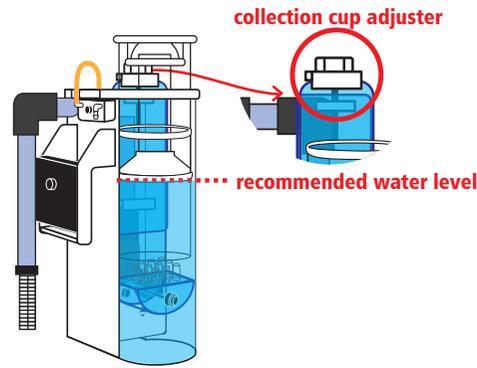


2. Remove the air hose from the silencer, immerse the air hose in skimmer water.



3. Plug in the pump, wait until the pump primes. This may take a few minutes. (verify the air hose is immersed in water and the inlet pipe are tightly connected)
4. Once the pump is primed and operating normally (water flushes out from the outlet), re-connect the air hose to the silencer.

- When the pump operates normally. The main chamber will fill with bubbles, carefully adjust the collection cup adjuster (clockwise: the water level in the chamber will go down; counter-clockwise: the water level will go up). Once the bubbles reached the bottom of collection cup, you can start to adjust the water level according to your preference. If you prefer wetter skimmate, you need the high water level; by contrast, if you want the skimmate to be drier, just let your water level goes down.
- The skimmer will take 2-4 weeks to reach optimal operation. During the break-in period, we recommend setting the collection cup in its highest position. Turning the collection cup adjuster to adjust the position.

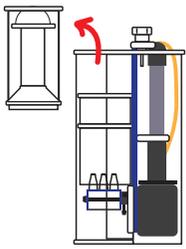


## Maintenance

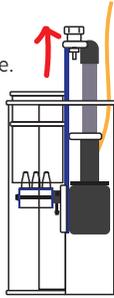
### Pump

Regular maintenance of the pump will ensure a long life and maximum performance: recommended every 3 months. You can disassemble the pump by following steps:

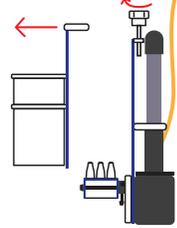
- Pick up the collection cup.



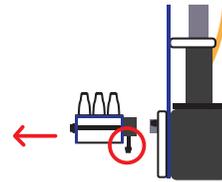
- Separate the air hose from the silencer then pick up the inside plate.



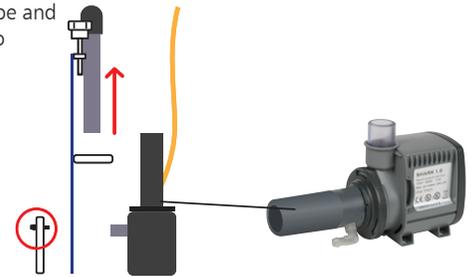
- Loosen the collection cup adjuster to separate the reaction tube.



- Loosen the screw to separate the diffuser.



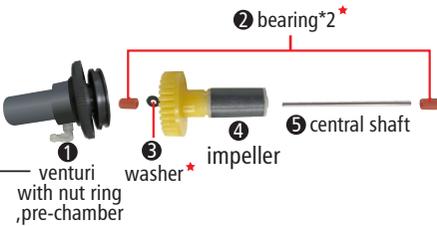
- Pull out the inlet tube and loosen the screws to separate the pump.



- Loosen the nut ring.



- Pull out the rotor.

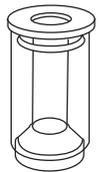


- venturi**  
The connecting part with the air hose should be clean frequently to prevent it from clogged.
- bearing\*2** **washer\***  
Make sure to back in position.
- impeller**  
Please clean carefully with brush.



### How to remove the limescale?

NO OTHER CHEMICALS, soak in a mixture of 1 part water and 1 part vinegar (citric acid also available) for at least 24 hours. Once you finish, please rinse with warm water.



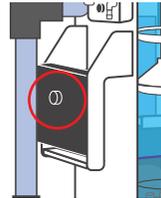
### Collection cup

Clean the collection cup frequently with a sponge and warm water.



### Water intake

Clean the water intake frequently to prevent it from being clogged.



### Sponge

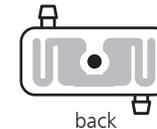
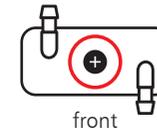
Loosen the screw to pick up the sponge of water outlet, make sure to keep it clean.



### Air hose & Silencer

The air hose needs to be clear all the time, check the connected part with the silencer often, once it's clogged, you can clean it right away.

Sometimes the silencer got clogged by limescale or unpredictable foreign matters, clean it regularly or anytime it needs. You can pick up the silencer by loosen the screw that marked on the image.



## Warranty

JNS warrants all JNS products to be free from manufacturing defects for one year from the original purchase date when purchased through an authorized JNS retailer. This warranty does not cover any damages caused by misuse, neglect, alterations or improper handling / transport / maintenance / installation. Physical damages are not covered by warranty. JNS does not cover personal injury, personal loss, or other damages associated with the use of our products. In order to request warranty service, please email us at [info@jnsaquaria.com](mailto:info@jnsaquaria.com). A purchase receipt is required for any warranty service. Products requiring warranty service must be returned to JNS. You are responsible for the cost of shipping a warranty claim to JNS and any damages that may occur during transit. Once a returned product has been inspected, it will be repaired or exchanged at our discretion and returned to you. International and/or expedited shipping are not covered under your JNS warranty.