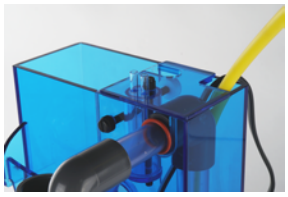
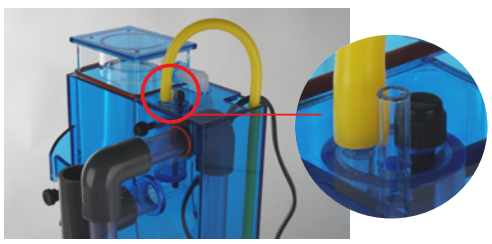
9 Install the silencer with lid.



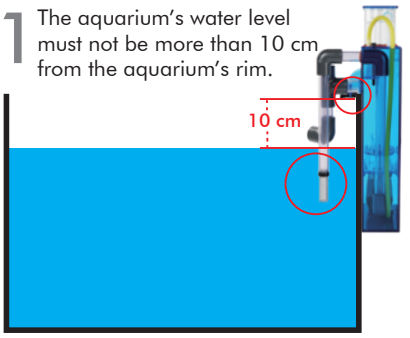
10 Install the large O-ring and drain tube onto the collection cup.

11 Install the collection cup and connect the air hose to the silencer.



Select a suitable place to set your VS-1.5

1 The aquarium's water level must not be more than 10 cm from the aquarium's rim.



2 The water intake must be completely submerged underwater when in use.

3 Hang the protein skimmer on the aquarium. Adjust the positioning screws 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, pick up the silencer and **immerse in skimmer water** to prime the pump. (image 2)

3 Plug-in, and wait until the pump primes, and no air in the inlet tubes. This may take a few minutes (verify the air hose is immersed in water and the inlet/outlet pipes are tightly connected). Once it's done, water would be flushed out from the outlet. (image 3)

image 3

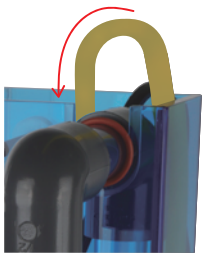
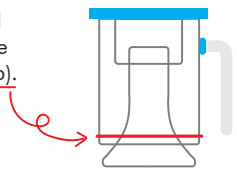


image 2

4 Once the pump is primed and operating normally, pull the air hose out of water and replace it on to the silencer.

5 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 (with the O-ring placed towards the bottom of the collection cup). You can adjust the form of skimmate by simply changing the position of O-ring.



O-ring level low high

skimmate color

Recommendations

1 For best performance, clean the collection cup frequently with a sponge and warm water

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. You can clean the skimmer with warm water and sponge to shorten the break-in-period.

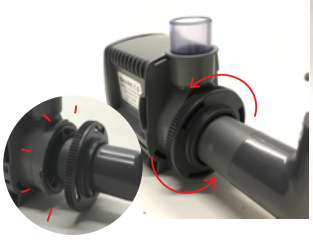
3 Regular maintenance of the pump will ensure a long life and maximum performance: recommended every 3 months.
You can disassemble the pump by following steps:

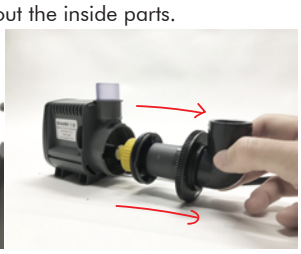
(1) Take off the air hose and connector to check if there's any clogging and clean it up. (especially the place marked on the photo)
It's common that the carbonate (limescale) builds up to form a very hard white substance.

How to remove the limescale?

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

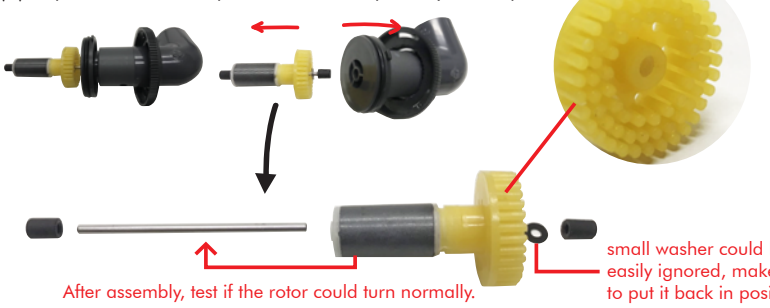
(2) Loosen the nut ring to pull out the inside parts.





(3) Separate the inside parts to clean, espacially the impeller.

** please clean carefully with brush.



After assembly, test if the rotor could turn normally.

small washer could be easily ignored, make sure to put it back in positon.

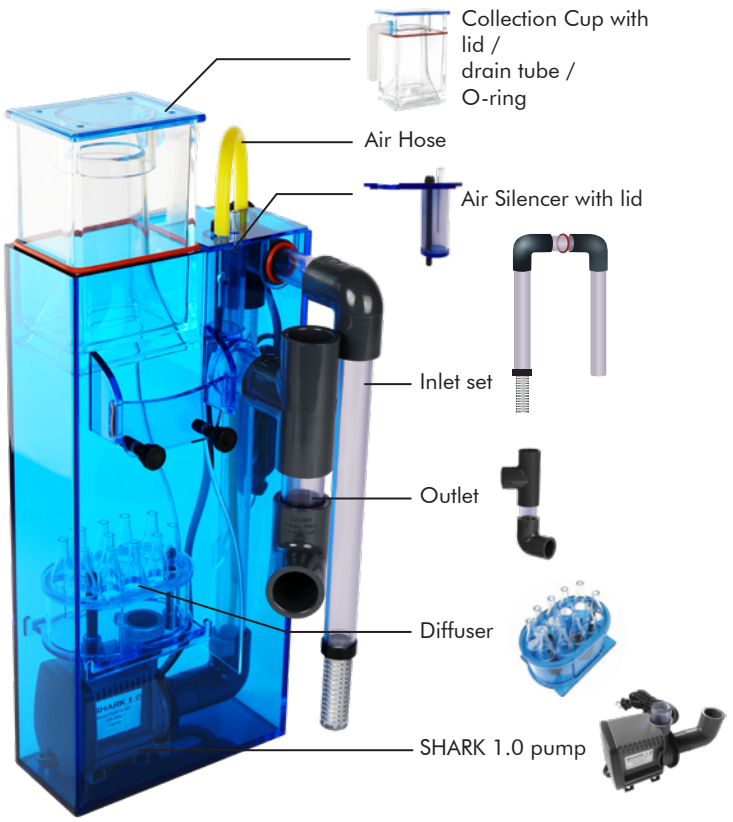
Warranty

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. A purchase receipt is required for any warranty services. 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.

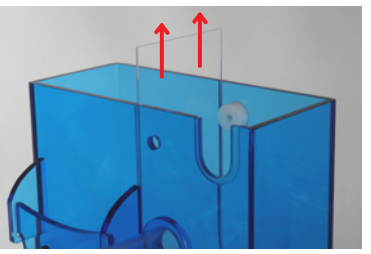
jns aquaria VS-1.5 Hang-On-Back Protein Skimmer
Installation Guide

www.jnsaquaria.com
info@jnsaquaria.com

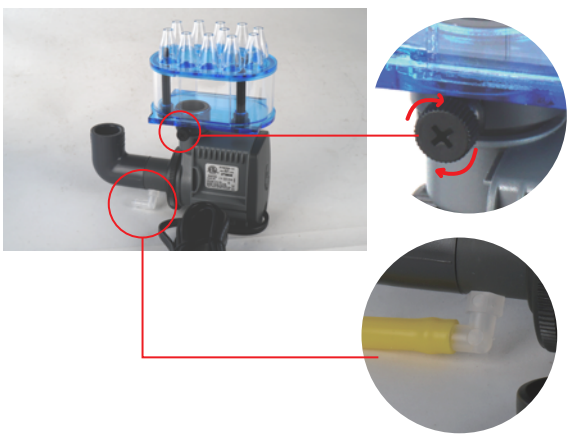
1. Please open the package carefully, and check if there's any damaged or missing part.



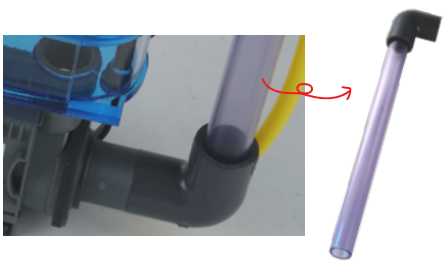
2. Please wash your new VS-1.5 and SHARK 1.0 pump with ONLY warm water and sponge before assembly. Pull out the inside plate to wash the main body. Never clean acrylic with alcohol-based products. Use caution when handling acrylic scratches easily.



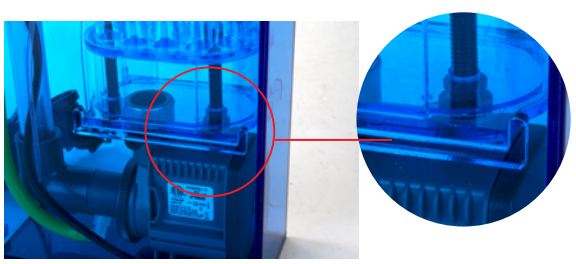
3. Install the diffuser onto the pump, and tighten the screw under the diffuser. (DO NOT OVER-TIGHTEN)
Connect the air hose to the pump.



4. Install the inlet which doesn't have the water intake onto the pump.



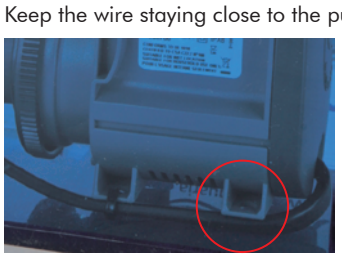
5. Gently put the pump (with diffuser and inlet) into the main body.
Make sure the base of the diffuser is attached well with the main body.



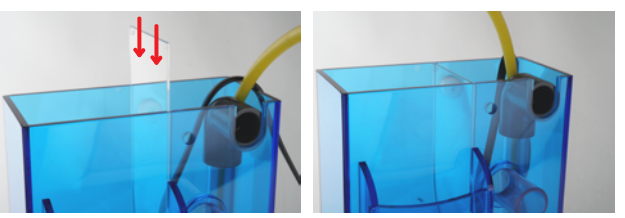
Tips:

(1) To grab the wire, air hose and inlet tube together would make this step easier.

(2) Keep the wire staying close to the pump.



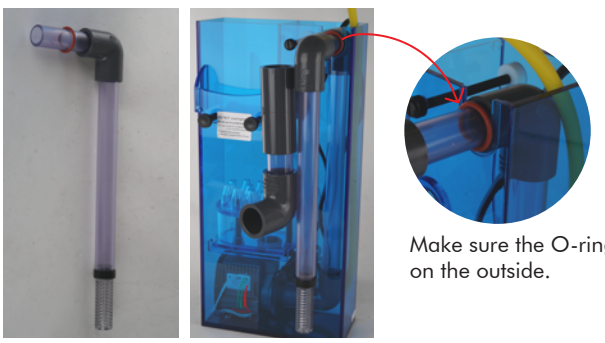
6. Install the inside plate.



7. Install the screw(in accessories pack) into the hole on top of the main body.

8. Install the small O-ring onto the short tube, then connect them with the inlet tube that with water intake.

Complete the inlet set and install the outlet tube as photo shows.



Make sure the O-ring is on the outside.