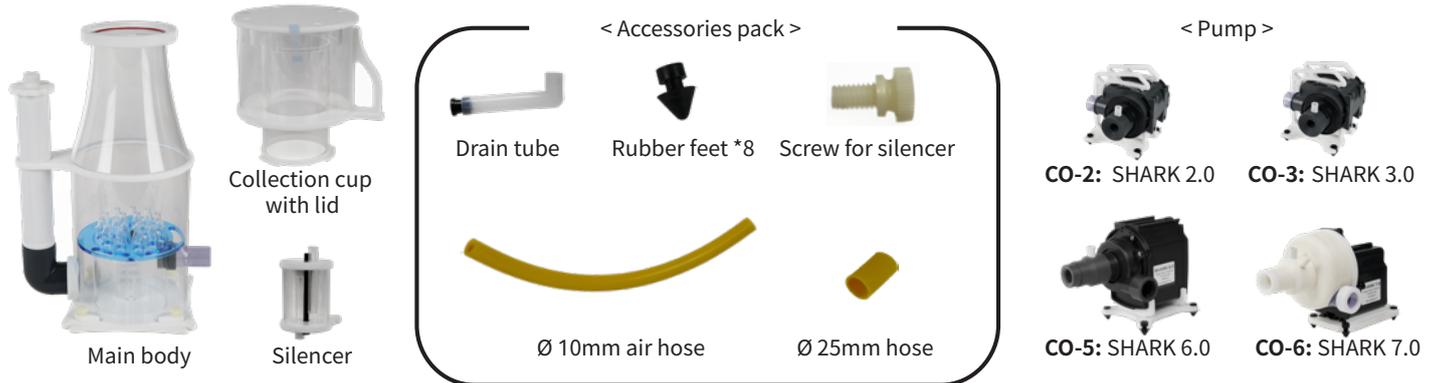


	CO-2	CO-3	CO-5	CO-6	
Footprint (mm)	370x180 or 315x270	360x320 or 440x210	420x350 or 510x270	420x460 or 560x320	
Height (mm)	465	580	580	580	
Pump	SHARK 2.0 (22W)	SHARK 3.0 (27W)	SHARK 6.0 (45W)	SHARK 7.0 (48W)	
Filtration Rating (L)					***
Light Bioload	1200 L	1800 L	2400 L	3200 L	The pump must be completely submerged underwater when in use
Heavy Bioload	640 L	1080 L	1400 L	2000 L	
Recommended Water Level (mm)	200 - 220 mm	200 - 220 mm	215 - 230 mm	215 - 230 mm	

Before Use

Please open the package carefully and check for damaged or lost parts. PARTS INCLUDED:



Recommendations

1. While we take great care to keep any contaminants away from our products during assembly, **please take a moment to clean the skimmer and plumbing before attaching to your tank. Only clean your product with warm water.** Never clean Acrylic with alcohol based products. Use caution when handling as acrylic scratches easily.
2. It may require 2 – 4 weeks for the skimmer to reach maximum performance due to tiny amounts of oil or remnants left from manufacturing. Skimmer performance may be erratic during this time and 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, please clean the collection cup frequently. Use a sponge and warm water to clean it. (DO NOT USE ANY SOAP OR CHEMICALS TO CLEAN THE COLLECTION CUP).

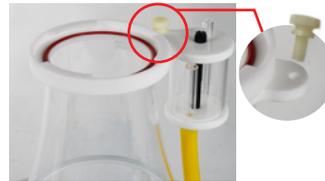
Assembly



1. Install the **rubber feet** to the **base of the main body** and the **pump**.



2. Connect the **pump** to the **main body** with **Ø 25mm hose**.



3. Install the **silencer** to the **main body**, to fix silencer with **screw for silencer**.



4. Install the **collection cup**, **do not over-tighten**.



5. Connect the **pump** to the **silencer** with **Ø 10mm air hose**



5. Install the **drain tube** to the **drain port of the collection cup**

Operation

1. The pump must be completely submerged underwater when in use. Running the pump dry or in too low of a water level will damage the pump.
2. For proper performance of the quick-precise adjustment valve, the water in your sump must not be any higher than the following levels:

CO-2	CO-3	CO-5	CO-6
200 - 220 mm	200 - 220 mm	215 - 230 mm	215 - 230 mm



Skimmer Adjustment

Turning the quick-precise adjustment knob will change the water level within the skimmer body chamber.

Turning the knob counterclockwise will open the outlet pipe, causing the water level within the chamber to drop. Generally, opening the valve will lead to drier skimmate that is dark in color.

Turning the knob clockwise will close the outlet pipe, causing the water level within the chamber to rise. Generally, closing the valve will lead to wetter skimmate that is light in color.

water outlet open

close

skimmate color



water level low

high

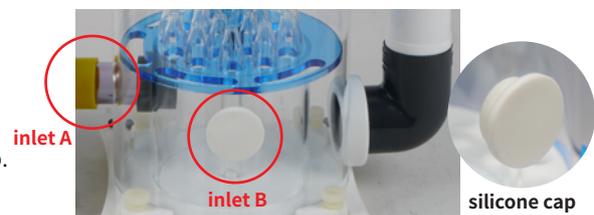
As a starting point, it is recommended to adjust the water level within the skimmer body to where the collection cup meets the neck.



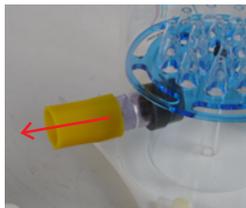
Configure your skimmer in different ways

The CO-2 / CO-3 / CO-5 / CO-6 have 2 water inlets to choose from, so it could be set in two ways.

The original setting is the inlet A, the inlet B is covered by a silicone cap. If you need to switch to the inlet B, please follow the steps:



(1) If you already installed the pump, lift the pump softly to separate it from the hose.



(2) Pull out the inlet tube from the inlet A. (pulling with the hose would be easier)



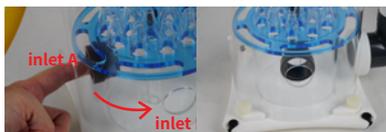
(3) Pull out the silicone cap from the inlet B.



(4) Loosen the center screw of the diffuser a little bit, so we can rotate the diffuser.

※

If you can't reach the central screw of the diffuser, please loosen the screws under the main body, and separate the main body from the base, continue to step (4).



(5) Rotate the water inlet of the diffuser to inlet B. Tighten the center screw when the inlet is in position. (If you have removed the main body, please install the main body and silicone feet before attaching the inlet tube and pump)



(6) Attach the inlet tube and the pump.

Maintenance

Pump

Regular maintenance of the pump will ensure a long life and maximum performance. You can clean the pump and its components by soaking in a general citric acid solution (citric acid:water=1:1) once every 3 months.

CO-2 / CO-3



(1) Pull out the venturi.



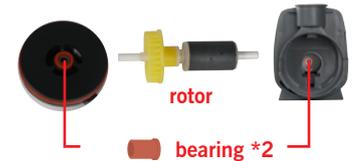
(2) Turning to separate the nut ring.



(3) Pull out the pre-chamber



(4) Pull out the rotor



the bearings should be in position

CO-5



(1) Pull out the venturi.



(2) Loosen the screws marked on the image



(3) Pick up the pre-chamber



(4) Pull out the rotor



the bearing should be in position

CO-6



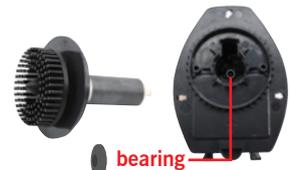
(1) Pull out the venturi.



(2) Loosen the screws marked on the image to pick up the pre-chamber



(3) Pull out the rotor



bearing
the bearing should be in position

Collection cup



The collection cup should be cleaned frequently with a sponge and warm water. (DO NOT USE ANY SOAP OR CHEMICALS)



For daily maintenance, pull out the plug of the drain tube to let out the skimmate.

Venturi



The venturi should be cleaned monthly and flushed weekly, due to the air to water interface calcium carbonate (limescale) builds up to form a very hard white substance.

Remove the limescale by soaking in a general citric acid solution (citric acid:water=1:1)

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.