



VERTEX
AQUARISTIK

Omega

150



- 5- Insert the Pump's Output into its dedicated slot on the skimmer body. Slight amount of pressure can be applied however the tip of the pipe can get damaged if forced against a flat surface.
- 6- Align the Pump Output with the bubble chamber hole and insert inside. "Refer to Diagram 1"
- 7- Ensure that the output-pipe's end is positioned at the right angle as explained in point 2 of this manual and clearly displayed in "Diagram1".
- 8- Make sure there is a small space between the pump body and the skimmer body. Both the skimmer and pump bracket are supplied with heavy duty Rubber-feet to reduce vibration.
- 9- Connect the Clear Silicone Air-Tubing to the dedicated 10mm Air-Intake nipple on the venturi.
- 10- Connect the other end of the red PU Ozone-Tubing to the dedicated Ozone- Intake nipple on the pump-head. If no Ozone is injected; leave the Ozone-port cap on.
- 11- Plan placing your skimmer in the sump. For stable performance, the skimmer must be placed in a sump compartment that does not fluctuate in water-level. Leave the nozzle fully closed for the break-in period. Be sure to place your skimmer in a sump compartment that is free of debris, gravel, sand, shells and/or other small objects. These Objects can possibly enter the pump, clog the needle-wheel and impede functionality or damage your skimmer pump. Do not place the pump near any calcium or carbonate effluent discharge. This does include but not limit to any calcium reactor, kalkwasser reactor and/ or dosing pumps.
- 12- Place both pump intake and skimmer output at a minimum of 6cm / ~2" away from any surfaces to prevent disruption of operation.
- 13- Do not place the skimmer where it will be exposed to a lot of air turbulence such as drain from display tank. A large influx of air bubbles can cause the pump to cavitate and seize.
- 14- Place the skimmer in the sump and direct the Output-Tee to the direction desired and away from obstructions.
- 15- Choose a GFCI outlet to plug your skimmer in. Ensure there is enough length of wire to have a drip-loop.
- 16- When electrical devices are operated in close proximity of water, GFCI plugs and drip-loops become more so important due to the possibility of splashing, moisture creep..., DO NOT IGNORE THIS WARNING! As always your safety is our number one concern.
- 17- Turn the unit on and close the riser-pipe. Allow the foam to cascade over the neck into the sump.
- 18- We recommend a period of 24 hours of running the skimmer in this fashion. This will reduce the overall break-in period.
- 19- After 24 hours turn the skimmer off.
- 20- Open the riser-tube 100% and screw the collection cup back on.
- 21- Turn the skimmer on. Do not touch electrical outlets with wet hands. Dry your hands completely before handling electrical cords and/ or devices.
- 22- Allow the water to go through the skimmer with riser-tube at 100% open for another hour or possibly longer.
- 23- After some time has passed adjust the skimmer using the Riser-tube.
- 24- A Titanium Screw is threaded into the riser-tube holder connected to the skimmer neck. Using this screw you can maintain the riser-tube's setting. Tightening this screw will aid in preventing the possibility of changing the skimmer's setting accidentally by touching the skimmer and/or the rise-tube.
- 25- Refrain from constantly changing the skimmer's setting; allow 30 minutes to an hour before you attempt to readjust the setting.

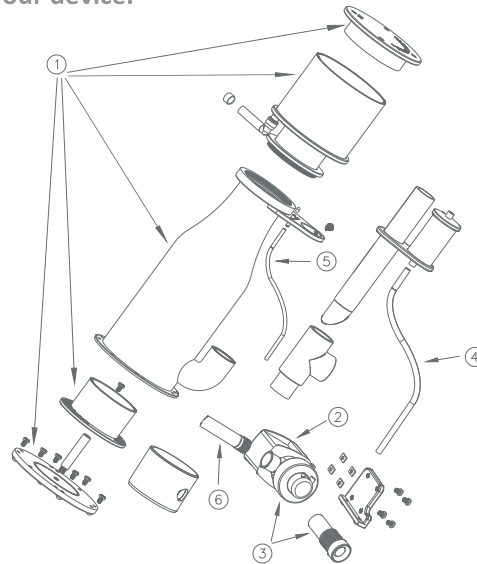


Vertex™ Omega 150 Protein Skimmer

Thank you for your purchase of the Vertex™ Omega 150 protein skimmer. Please be sure to read and follow this brief guide to ensure proper install and operation of your device.

In the box:

- 1- Omega 150 Skimmer Body
- 2- Sicce™ Custom Syncra V-150 Pump
- 3- Custom Pump-Head and Adjustable Nozzle
- 4- Silicone Air Tube
- 5- PU Ozone Tube
- 6- Pump Output pipe/Angular Discharge
- 7- 10mm Drain Outlet coupler
- 8- Sicce™ Syncra Owner's Manual
- 9- Omega 150 Owner's manual

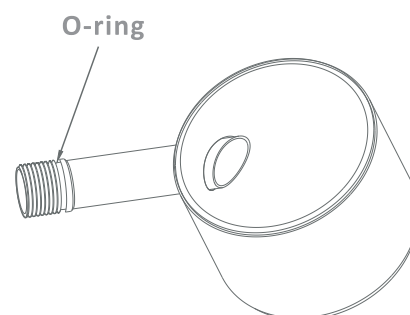


Install and operate:

- 1- Remove your skimmer and its components from the box and inspect for any possible defects. If there are any concerns please contact your dealer within 48 hours of receiving your skimmer, refrain from installing the unit, keep all original packaging as well as proof of purchase.
 - *Any damages to the unit during transport are not covered under warranty and must be claimed with the forwarder at the time of receiving the product.*
- 2- After proper inspection, clean the unit with a damp cloth using RO water to ensure removal of any oils and/ or chemicals used during the manufacturing process.
- 3- Remove the Collection Cup from the skimmer; simply unscrew counter-clockwise holding the cup.
- 4- Screw the Output pipe to the pump's Output. Do not over tighten! A 2.5mm O-ring is seated at the end of the threading. This will remove the possibility of leaking Air as well as providing cushioning to make sure the pipe can be turned to match the angle of the inner bubble chamber hole. *“Refer to Diagram 1”*

Turn Out-Put pipe until its angular end matches the similar angle of the base chamber hole.
The onboard O-ring will provide a buffer to allow the connection sealed as well as adjusting the angle.
Turn enough revolutions until you can observe the O-ring is under slight pressure.

Diagram 1





Warning: To avoid damage to property, livestock and/ or personal injury please follow all these instruction and/or consult with a professional. Vertex Aquaristik™ will not be held accountable for any damages the misuse and/ or improper installation of this unit may cause.

Important points:

- Break-in period can vary dependent of your system's chemistry, feeding regiment..., in most cases period of one to 2 weeks is required to have the skimmer fully break in and perform optimally.
- Do not open the nozzle for the first 2 weeks or until the skimmer is fully broken in.
- Omega 150 skimmers can operate in water levels from 18 to 24 cm / ~7" to ~9" however they are best suited for sump levels of 19 to 22 cm / ~7.5" to ~8". Many factors can affect the optimal water levels such as bio-load...
- To adjust the skimmer at best setting suited for your system, simply turn the riser tube to change the height of the foam-water mix and foam line in the skimmer body.
- If the skimmer is placed in higher water level, the riser-tube can be opened more and vice versa.
- The higher the water-foam break level in the skimmer body the more water will be taken out along with DOC (Dissolved Organic solids). This is referred to as "Wet skimming" and opposite of that as "Dry Skimming". To skim more dry simply open the riser-tube more and vice versa.
- Adjustable Venturi Nozzle is only used for final fine-tuning of the skimmer for use in different sump water levels. Simply start opening at a half revolution, observe the water level and Air-draw and allow the skimmer to settle for a minimum of 1 hour before attempting to further alter setting.
- It is possible to observe fine micro-bubbles exiting the skimmer during the break-in period. This is normal, do not be concerned. This will subside once the skimmer is fully broken in.
- Although your skimmer has been cleaned after production, we still recommend cleaning the skimmer before putting in operation. Run a small amount of Carbon in your filter to remove any possible oils used during the manufacturing process.
- The onboard skimmer drain-outlet can be utilized to empty the skimmer cup and/ or direct the skimmate into a waste-collector or drain. Remove the drain cap and use the small 10mm pipe supplied as a coupler between the drain-outlet tube and the tube carrying the skimmate to your collection station and/or drain. Before taking advantage of this feature; ensure the carrier tube utilized grips around the small coupler tightly and there is no possibility of leakage.
- Vertex™ screws are fabricated from high quality grade-2 Titanium. While they possess a very high corrosion resistance index they can be damaged due to the softness of this alloy. Fasten gently to avoid damaging the screws as well as the PVC threading. Damaged threading and/ or screws, if deemed to be caused by using excessive force, improper alignment and/ or negligence will not be covered under warranty.
- Many parameters can possibly affect skimmer's performance. These include but not limit to: use of chemical additives, extremely rich and oily foods, underwater adhesive and/ or epoxies...
If this occurs run a small amount or carbon in your filter or perform a water change. Some of the possible effects that can be observed due to the factors noted are:

A) Collapse of foam-head

B) Exit of Micro-bubbles from skimmer

C) Over-flowing

D) Different color skimmate



- When handling the pump for service; be careful to not damage any components such as pump-head, shaft or bearings. Damages occurred due to negligence will not be covered under warranty.

Maintenance:

Your Omega skimmer can be fully disassembled for thorough maintenance. A flathead screw driver is required to perform this task. In order to disassemble your skimmer simply follow these steps:

- 1- Unplug the skimmer; never touch electrical outlets with wet hand. Do not attempt to service or disassemble an electrical device when connected to electricity and/ or in operation.
- 2- Remove the skimmer from sump, drain the collection cup and skimmer body.
- 3- Remove the collection cup.
- 4- Unplug the air and ozone lines from the pump venturi.
- 5- Pull the pump away from the skimmer body, removing the pump from the skimmer.
- 6- Using a flat head screw driver remove all the screws from the skimmer base.
- 7- Gently remove the skimmer body from the base.
- 8- Unscrew the Titanium bolt holding the bubble plate down to the base chamber.
- 9- Silencer can also be disassembled for cleaning. Simply remove the silencer tube using a tilting back and forth motion.

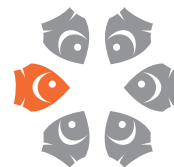
Your skimmer is now disassembled and can be fully cleaned before putting back in operation.

**** Important point:** Before assembling the skimmer and putting back in operation; it is imperative to place the outer-ring section of the bubble plate that does not house any holes (solid section) directly above the skimmer's output-elbow. This will further reduce the possibility of any bubbles exiting the skimmer. To accomplish this, connect the bubble-plate to the central holder-rod however do not fasten in place tightly. Once the body is placed over the base and screw holes are aligned, simply turn the bottom chamber tube to align the hole with that of the skimmer's body. Now spin the bubble-plate to position its solid part over the skimmer's exit-elbow and then tighten the screw holding the bubble plate in place.

Disassembling your pump for decalcification, removing any possible debris from pump-head and/ or any other service can be achieved following the steps below:

- 1- Remove the output-pipe from the pump by simply turning in a counter-clockwise motion.
- 2- Turn the pump-head gently observing the back of the pump-head. When holder slots from the pump-block are visible you can remove the pump-head. **DO NOT ATTEMPT TO FORCE THE PUMPHEAD OFF FROM THE MOTORBLOCK!** This will damage the pump-head and render pump-head unusable.
- 3- Gently remove the bearing plate from the motor block.
- 4- Hold the shaft using a dry cloth and remove it from the motor block.

The pump is now fully disassembled and can be cleaned using clean water or a mild solution of Acetic Acid (Household white vinegar). Ultimately for thorough cleaning the pump could be run in this solution overnight.



Using strong Acidic mediums can possibly damage your pump casing and/or internal parts. If an acidic solution is used; it is imperative to clean all parts with warm water before assembling and putting the unit back in operation. For any further maintenance of the Sicce™ motor block simply refer to the Sicce™ manual supplied.

**** Important point:** Before reassembling the pump; ensure the inner motor blocks bearing inside the pump as well as the bearing on the bearing-plate are properly seated.

Further to all the instruction above on how to disassemble the skimmer body and pump the following maintenances are recommended to be performed from time to time:

- Apply a small amount of food-grade silicone lubrication to Omega's Bayonet O-ring
- Apply a small amount of food-grade silicone lubrication to the Bayonet's Screw-side
- Clean the Air-line Silicone Tubing
- Clean the Venturi Air-line and Ozone-Line nipples
- Clean the Silencer foam from salt-creep and ensure inner silencer compartment is dry.

Trouble Shooting and Solutions:

| <u>Diagnosis</u> | <u>Possible Cause</u> | <u>Solution</u> |
|----------------------------------|------------------------------------|-----------------------------------------|
| Over-flow upon Adjustment | Clogged Impeller | Clean the Needle-Wheel |
| | Clogged Venturi | Clean the Venturi with water |
| Skimmer Overflows | Use of Epoxy or water conditioners | Run Carbon / Perform a water-change |
| | Clogged Venturi / Silencer | Clean Venturi and/ or Silencer |
| | Blocked Out-put | Remove the impediment |
| | Excessively high water level | Adjust to proper water level |
| Skimmer Does not collect Skimate | New Skimmer Syndrome | Allow 2 weeks for breaking in |
| | Oily foods and/ or additives | Allow time for the condition to subside |
| | Broken Impeller Pins | Replace Impeller, correct placing |
| | Over-sized skimmer | Replace with adequate size skimmer |
| | New Tank Syndrome | Lack of enough Bio-load |
| | Shallow water | Refer to skimmer placement / page 2 |
| Higher than Normal noise level | Clogged Silencer or Venturi | Clean the respected part thoroughly |
| | Out-put Clogged | Examine the Out-put |
| | Improperly Seated bearings | Readjust bearings position |
| Micro-Bubble production | Water level fluctuation | Maintain Constant water level |
| | Use of Epoxy or water conditioners | Run Carbon / Perform a water-change |
| | Clogged Venturi | Examine and clean Venturi |
| Skimmer body discoloration | Exposure to UV and/ or Ozone | Expected / Nonperformance affecting |
| | Exposure to light | Remove lighting source |
| Pump not working | Over-Calcified pump | Service the pump |
| | Seized bearings or Motor-Block | Contact your dealer for Service |



Warranty, Service and Conditions:

Vertex™ Omega Skimmers carry a two-year limited manufacturer warranty. Parts and/ or components damaged due to misuse, improper installation or normal wear will not be covered under warranty. Vertex Aquaristik™ deserves the right to warranty products based upon inspection. If any damages occurred due to any of the following reasons (but not limited to), it will not be covered under warranty:

- Excessive Calcification
- Improper assembly
- Custom modifications
- Using parts and components other than supplied by vertex and/ or utilized in the original design
- Running the pump dry
- Improper electrical voltage and/ or frequency
- Cutting the pump cable to use other plug types
- Procedures other than noted in this guide
- Physical damage or what caused by negligence

All warranty related issues should be handled at the point of purchase location by trained staff. Please contact your dealer for warranty and/ or any other service/ maintenance the unit might require.

Pay attention to all the warnings and pointers noted in this guide and use common sense. To avoid damage to property, livestock and/ or personal injury please follow all these instruction and/or consult with a professional. Vertex Aquaristik™ will not be held accountable for any damages the misuse, modifications and/ or improper installation of this unit may cause.

For additional information regarding this and/ or any other Vertex Aquaristik™ products, please either consult with your dealer or the following resources:

Website: www.vertexaquaristik.com

E-mail: info@vertexaquaristik.com



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