



Vertex™ In-sump skimmers **IN-80 / IN100 / IN180 / IN250**

Thank you for purchasing our product, *Vertex™ Skimmers* are manufactured from the best quality materials in the industry and with utmost care.

Our goal is to offer proper equipment to maintain the most complex aquatic systems. We prioritize with ease of use, efficiency & considerations to the needs of animals you maintain.

Please take a moment to read these instructions to ensure optimal performance. When using or installing electrical devices, take care and/or consult a professional. Your safety is our #1 concern.

Installation and set up:

Be sure to follow these directions carefully. Failure to do so may result in damage to your Vertex™ Skimmer.

Dealers or the manufacturer are not responsible & can't be held accountable for any personal or property damage resulting from the use or misuse of our products.

Carefully remove your new *Vertex™ Skimmer* from its original packaging, inspect the unit for damages. All damages must be reported to your dealer WITHIN 48 hours of receipt & marked by the delivery driver on the waybill.

Each *Vertex™ Skimmer* will have the following parts:

- Skimmer collection cup, lid & rubber drain nipple.
- Main skimmer body.
- Skimmer pump w/ impeller.
- Venturi assembly w/ silicone airline hose .
- Wedge pipe drain assembly.
- *Pump to skimmer PVC elbow coupling (IN-80 only).
- *Pump mounting bracket (IN-100/180/250/280 only).



Once you have verified that there is no damage and that all the parts are present, you may begin the installation.

1. Insert the PVC elbow joint into the body of the skimmer. This process can be made easier by lubricating the rubber gasket with some water. Be sure to push the elbow far enough so that it is within the bubble plate chamber.
2. Slip the output of the pump into the elbow coupling; ensure that the bottom face of the pump is flush with the bottom of the skimmer.
3. Attach the venture assembly to the intake of the pump. Double check to make sure the airline is attached to the venture nipple. Please take care not to press too hard on the venturi nipple as it is delicate.
4. Assemble the wedge pipe assembly and slip it over the output of the skimmer body. This output can be rotated to allow for a better fit within your sump.
5. Verify now that your sump has adequate space for the skimmer. Be sure that the skimmer can sit flat and that it is not touching the sides of the sump, any baffles or any PVC plumbing. This will ensure the quietest performance from your *Vertex™ Skimmer*
6. Place the skimmer carefully into your sump. If there is water in your sump, begin by slowly submersing the skimmer body underwater to reduce buoyancy. Skipping this may result in stressing the elbow joints of the skimmer.

For optimal performance, it is recommended that you place your *Vertex™ Skimmer* so that it is resting in 6-8" of water. An auto top off device is recommended to maintain the water level and skimmer consistency.

Now you can slip the collection cup into the neck of the skimmer. Your *Vertex™ Skimmer* has an Easy-Slip neck union. Make sure to keep the O-ring within this union lubricated. It is only recommended that you use a silicone O-ring lubricant for this application.

Optional step: Once you have fitted the skimmer into your sump, you can remove it, place it into a tub with a mild water and vinegar solution and run the skimmer for some time. Doing so will help remove manufacturing oils and reduce the "break-in" period (the time it takes for the skimmer to reach optimal performance).

Operating your new *Vertex™ Skimmer*

Now that you have finished with the installation of your *Vertex™ Skimmer* it's now time to power up the unit.

First, make sure the wedge pipe is set to the lowest water level (full open). This setting can be adjusted once the skimmer has been running for a few hours.

Next, locate the power cord and an appropriate power outlet. It is recommended that prior to plugging in the pump; you set up a drip loop to prevent electrical shock or fire in the event of water splashing onto the cord or near the power outlet. Make sure the power outlet is clean, dry and supplying 110v—120v @ 60HZ. You can now connect the pump to the power outlet and start up your new *Vertex™ Skimmer*



Adjusting the skimmer is as easy as twisting the wedge pipe until the foam head sets where you want it to be. Take your time with this process, as your adjustments may take several minutes to reflect in the operation. Change this setting as needed, keeping in mind that a higher water level will produce a wetter, thinner skimmate and vice versa.

Congratulations, you have just finished setting up your *Vertex™ Skimmer!*

Maintenance

It is recommended that you empty the skimmer cup frequently, taking care to clean the neck thoroughly. Do not use any detergents, warm water and an acrylic-safe cleaning pad will do. Remember, even if the cup doesn't have to be emptied, keeping the neck clean goes a long way towards maintaining skimmer consistency and efficiency.

You can also occasionally dip the silicone air intake hose into a cup of warm RO/DI. Doing this will flush out any salt or debris buildup within the venturi and maintain performance.

Every three months, you should remove the pump for maintenance. Disassemble pump, taking care not to drop anything, especially the Zirconium shaft!

Clean the pump & impeller with a mild solution of Water & vinegar, then reassemble with care. Now it is time to decalcify the pump. Place the pump in a vessel with a mild vinegar/water bath and allow the pump to run overnight. Take care that the output of the pump is not facing upwards while running to avoid any splashing or spillage on the floor.

Tip: If, after a period of usage, your Vertex™ Skimmer is producing micro-bubbles from the output, it is probably time to flush the pump and venturi.

Warranty:

Vertex™ Skimmer come with 1 year limited manufacturer warranty

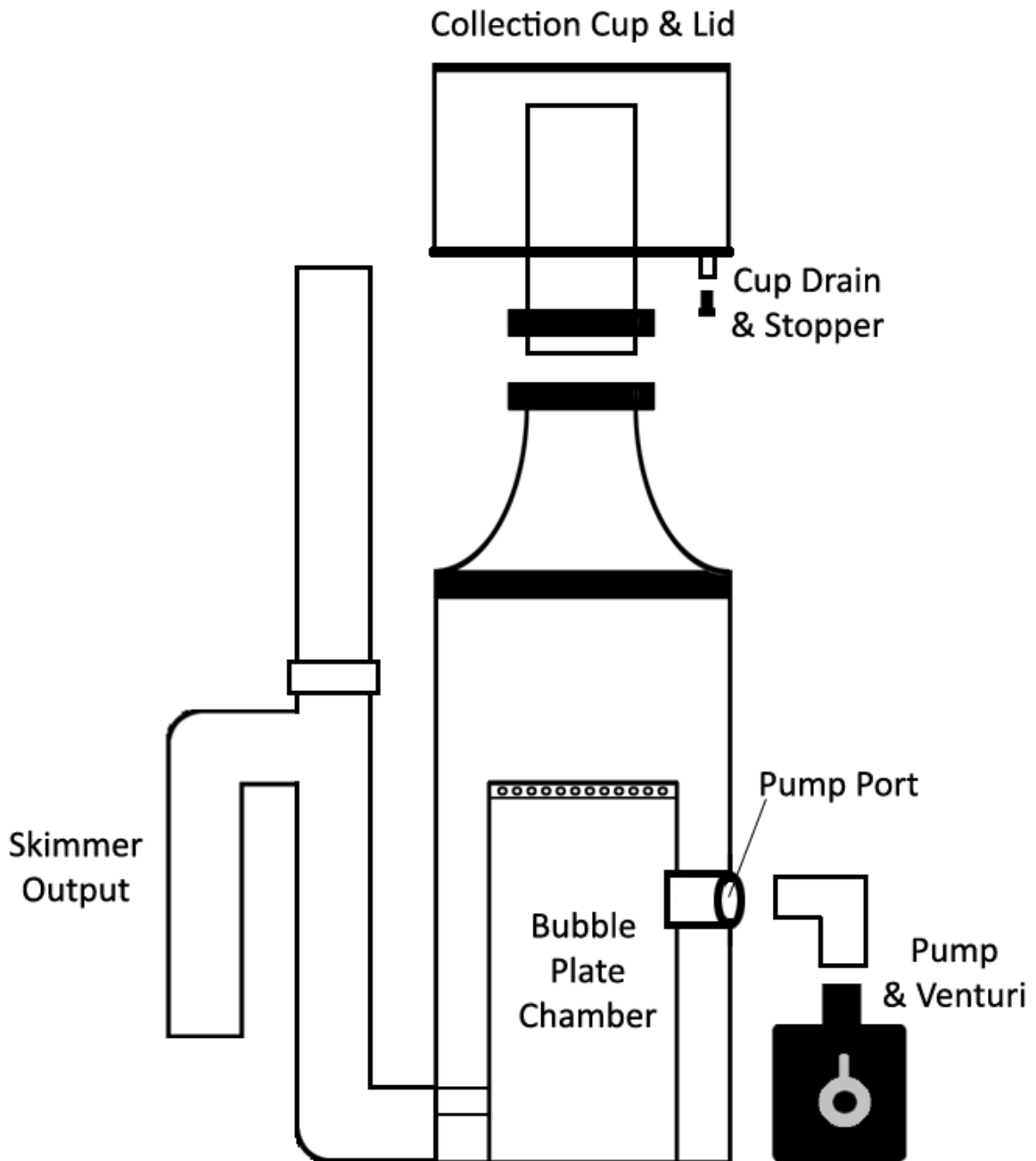
The *Vertex™ Skimmer* impeller comes with a 1 year Manufacturer's warranty. The *Vertex™ Skimmer* pump comes with a 1 year Manufacturer's warranty. In the case of a defect, please contact the dealer of purchase for warranty purposes. Never run the pump dry. Pumps that have burnt out from dry runs will not be eligible for warranty replacement. *Vertex Aquarist®* reserves the right to warranty products based on inspection.

All warranty related issues should be handled at the point of purchase location by trained staff. Please contact your dealer for warranty replacement services.

For more information, please contact your dealer or visit is at www.vertexaquaristik.com



IN-80 Diagram





IN-100/180/250/280 Diagram

