



High Flow Skimmer™

Operating Manual & Specifications

Read the entire instructions prior to assembling and operating



- For Pump Flows up to 12,500 GPH
- Provides Excellent Skimming
- Perfect for Ponds & Water Gardens with Separate Biological Filtration



Read entire instructions prior to assembly and operation

HFS12500

OPERATING MANUAL

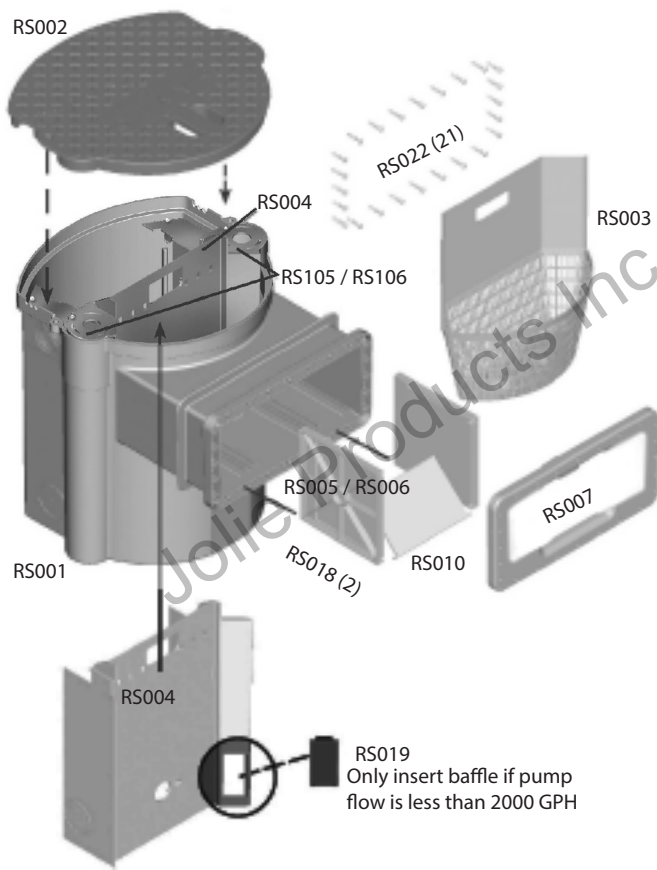
Replacement Parts

Item	Description
RS001	Skimmer Tank
RS002	Skimmer Cover
RS003	Skimmer Leaf Basket
RS004	Skimmer Center Baffle
RS007	Skimmer Face Plate 16"
RS010	Skimmer Weir Door 16"
RS018	Skimmer Divider
RS022	Skimmer Screw Packet
RS105	Left Baffle Shield
RS106	Right Baffle Shield

High Flow Skimmer Accessories

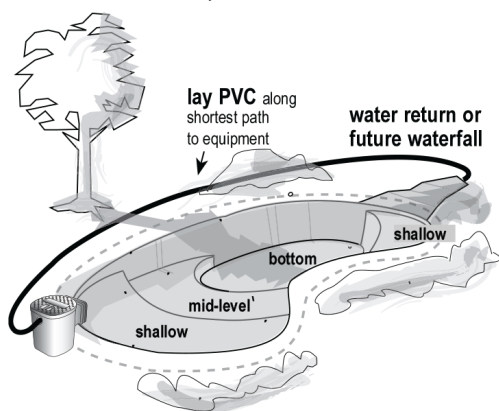
Item	Description
K5001	Stone Cover Large
K5001-LB	Stone Cover Large - Light Brown
K5002	Stone Cover Small
K5002-LB	Stone Cover Small - Light Brown

Components Diagram



Installation

A) Place the High Flow Skimmer opposite the waterfall or water return in an easily accessible location.



B) Avoid placing rocks or plants in front of the High Flow Skimmer. Anything placed in front will interfere with the water flow and skimming action.

C) Waterfalls generally face the viewing area. Place the High Flow Skimmer so it faces the waterfall. This hides the High Flow Skimmer from view and allows for easy access.

D) Positioning the High Flow Skimmer on the downwind side of the pond will aid in the effective collection of floating debris. This is less important than placing the High Flow Skimmer opposite the waterfall but it is a significant design consideration.

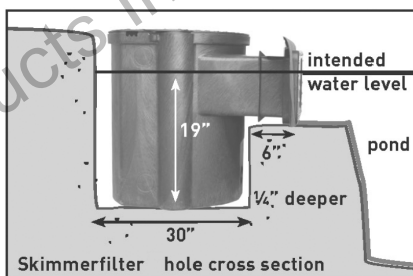
Install Skimmer

Mark Water Level



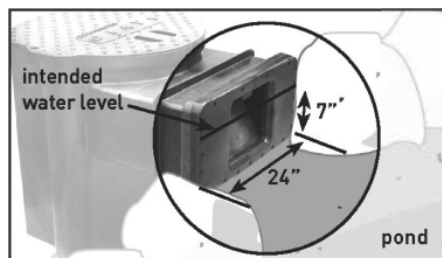
With the pond full, mark position of water level on the liner at the Skimmer location. Partially drain pond, 8"-10" before proceeding.

Dig Skimmer Hole

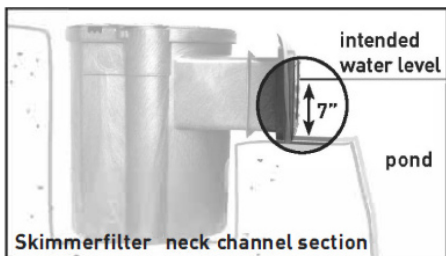


5" back from the coping shelf, dig a round hole measuring 22" across, with a depth of 14" below the marked water line. Dig the front of the hole 1/4" deeper than the back to compensate for settling.

Dig Neck Channel (B)

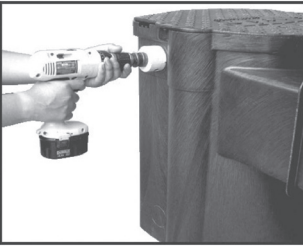


Dig Neck Channel (A)

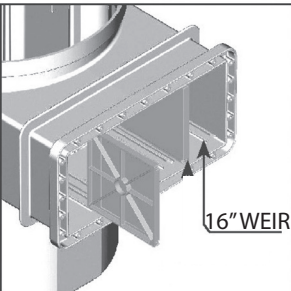
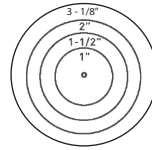


Dig a channel 6-3/4" below the water line (see diagram A), measuring 15" wide (see diagram B), to rest the neck of the Skimmer. Compact and level the bottom of excavation. **Do not dig too deeply or the soil may settle unevenly.**

Installation

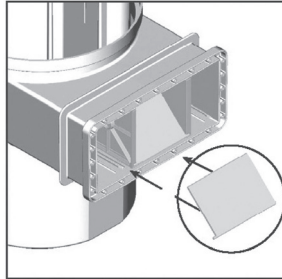


Cut 3" opening by placing hole saw at the top indicator and cutting blow the guide.



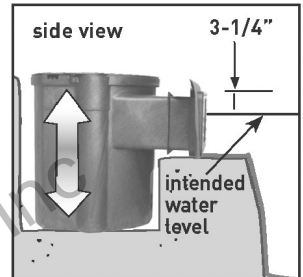
Insert Weir Dividers

Insert weir dividers for 16" weir in the outermost tracks.



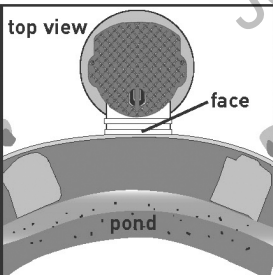
Insert Weir Door

Push the weir door hinge tabs into the notches on the bottom of the weir dividers, using thumbs to hold tabs secure. Lay the door horizontal in the Skimmer neck. ***DO NOT ATTACH THE WEIR DOOR TO THE TOP WEIR DIVIDER NOTCHES.**



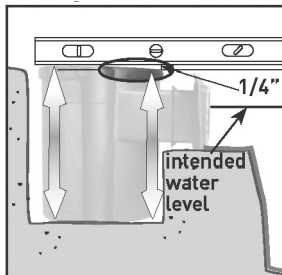
Place Highflow Skimmer

Place the High Flow Skimmer in the hole. Check to make sure the intended water level meets the Skimmer 3-1/4" inches below the top of the neck. Adjust up or down by adding or removing soil.



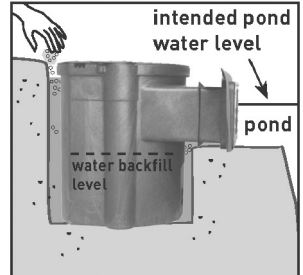
Check Position

Verify that the face of the High Flow Skimmer is flush with the back wall of the lined coping shelf. Adjust placement, if necessary.



Verify Water Level

Level the unit front to back and side to side. Make the front edge 1/4" lower than the back edge. **Check water level once again.** The placement of the High Flow Skimmer will determine the depth of your pond before you proceed.



Backfill

For stability, fill the High Flow Skimmer with water then place lid on top. Add backfill around the entire unit. Use moist sand or pea gravel or, if unavailable, gravel and loose soil (free from clumps). Hand pack every 3 inches. Do not over compact. Lightly dampen the backfill after installation to help set the backfill.

Installation

Pull Liner Over Skimmer



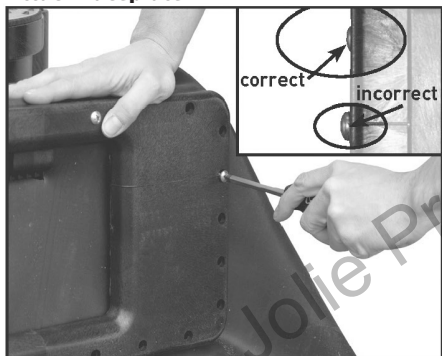
Position pond liner over the High Flow Skimmer mouth and hold it in place. Smooth liner free of wrinkles and folds. Wipe clean.

Make Incision



Make a 3" wide incision through the centered liner 3/4" below the top of the High Flow Skimmer opening.

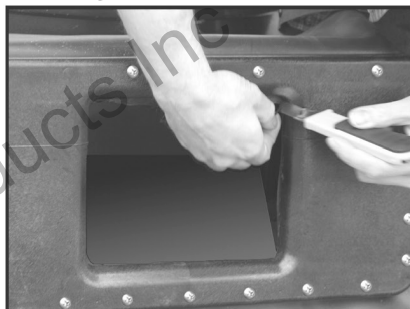
Attach Faceplate



Use the a #3 screwdriver to install screws into all four corners. Install the remaining screws. Tighten top, bottom and sides alternately until screw heads are flush to create a watertight seal. Do not over-tighten.

Do not use a power drill.

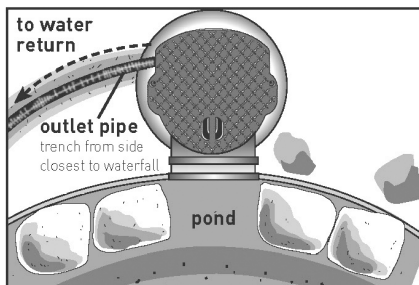
Trim Liner



After the faceplate is secured, use a knife to trim the liner inside the mouth of the High Flow Skimmer.

Install FreezeFlex™ Hose

FreezeFlex hose reduces plumbing joints and the leaks that come with them, it's easier to use, saves installation time and increases productivity. Flexible PVC is more freeze tolerant than rigid PVC, glues to standard PVC fittings and its black color makes it easier to hide.



Dig a trench for the Discharge pipe. Use the side closest to your water return or waterfall. Extend this trench so that it connects to the waterfall filter.

Installation

Bury FreezeFlex Hose



Bury the FreezeFlex below frost line. Dig a trench (shovel width) 10" below existing ground level along the pond perimeter from the Savio Skimmer to the Livingponds® Waterfall Filter or water return.

Finishing Up

Finish Coping



To hide the Skimmer from view, extend the coping shelf rock-work up to both sides of the Skimmer opening.

Hide Neck



Place a flat rock over the Skimmer neck to camouflage.

Maintenance

Under normal operating conditions this Skimmer will provide years of trouble-free use. Here are a few items which will require periodic maintenance:

1. Check and remove debris captured in the leaf basket every week or as needed. The frequency required will vary seasonally, with cleaning required more often in the fall than at other times.

Winterization

Prepare for winterization in mid-to-late November, or when ice persistently develops on the pond. Keep equipment winterized until late February or early March when the water temperature rises consistently to 40°F or higher.

If the pond is to be shut down in winter:

1. Disconnect pump, clean and store in bucket of water. This prevents any rubbers seals from drying and cracking.
2. Drain any plumbing lines not buried below frost line (18"-24" in agricultural zones 4-6).
3. Use plumber's heat tape on pipes and shut off valves. Insulate the pump house and exterior pumps and valves.
4. Completely empty the tank.

Locate a GFCI (ground fault current interrupter) protected power source nearby. Typically a 2-4 outlet, 15 amp, 110v, grounded, single phase service is sufficient. Refer to your electrical equipment specifications or consult a qualified electrician to determine power demands for your system.

Warnings

To prevent electrical shock, disconnect all electrical devices before servicing the Skimmer.

Do not attempt to operate electrical devices with damaged cords or plugs.

Do not attempt to remove any electrical device from the Skimmer by pulling on its cord.

Troubleshooting

Faults	Possible Causes	Remedies
Pump chamber runs dry during operation	Low water level in pond. Wier door close/stuck/obstructed. Weir not large enough for pump flow.	Add water to pond. Water level should be between 3/4" above or below optimum water mark on faceplate. Reduce pump flow. Install smaller pump. Install larger weir assembly.
Water leak around faceplate.	Faceplate screws not tight. Faceplate not sealed properly.	Use #3 philips screwdriver to hand tighten screw snugly. Remove weir face, clean liner of mud or gravel, smooth wrinkles. Reinstall.
Filter pad requires frequent cleaning.	Pump flow rate too high. Heavy waste load in pond due to fish or plant debris.	Adjust pump flow rate to be below recommended maximum. Remove filter pad. Add a Savio Livingponds filter.

Maintenance Notes

Lined area for maintenance notes.

Jolie Products Inc

Maintenance Notes

Jolie Products Inc

Warranty

Savio Engineering provides a manufacturer's limited warranty of 5 years from original purchase date. Warranty does not cover consumables or wear items. Warranty is non-transferable. Within the warranty period, Savio will repair materials with manufacturing deficiencies at their discretion.

This warranty does not cover any faults caused by improper use, installation and handling of the device or as a result of wear and tear. Savio Engineering does not assume liability for consequential damage caused by the failure of the product.

Warranty is void if the product is not used in accordance with instructions. For warranty claims, please contact your dealer or place of purchase.

Innovative, precision-engineered solutions

Advanced water gardening products for healthy, clean living ponds.



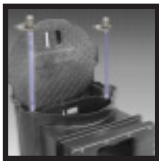
Skimmer®



Livingponds® Waterfall Filter



Pond Package™



UVinex® System



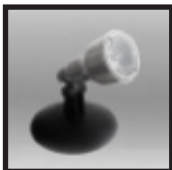
Water Master™ Pumps



Waterfall Well™



SpringFlo™



Ignite Landscape Lighting®



Rescue Water Treatment™



Black Foam™



Pond Free® Kits