



# High Flow Skimmer™ 5000

## Operating Manual & Specifications

Read the entire instructions prior to assembling and operating

- For Pump Flows to 5,000 GPH
- Provides Excellent Skimming & Mechanical Filtration
- Perfect for Ponds & Water Gardens with Separate Biological Filtration

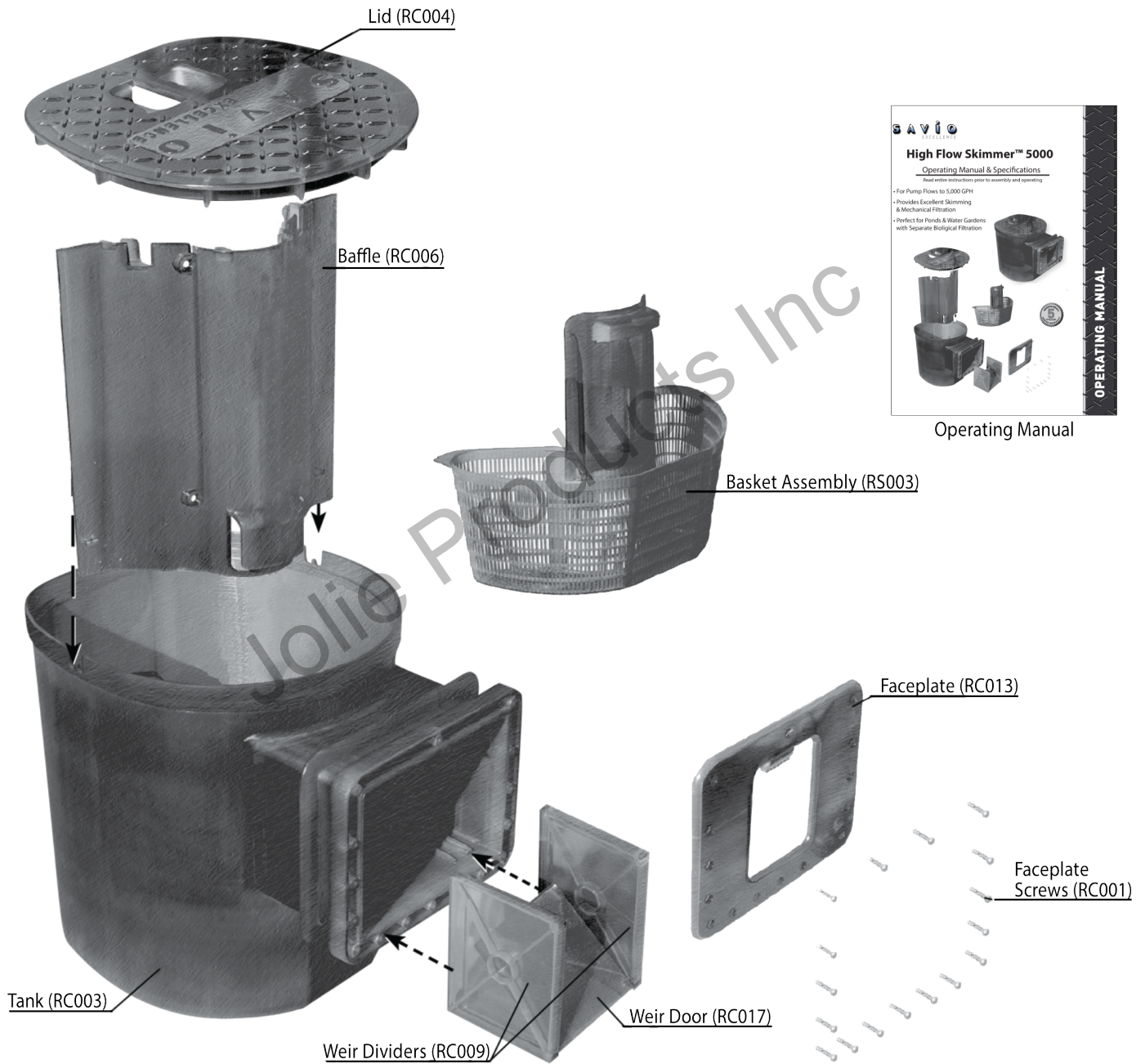


HFS5000

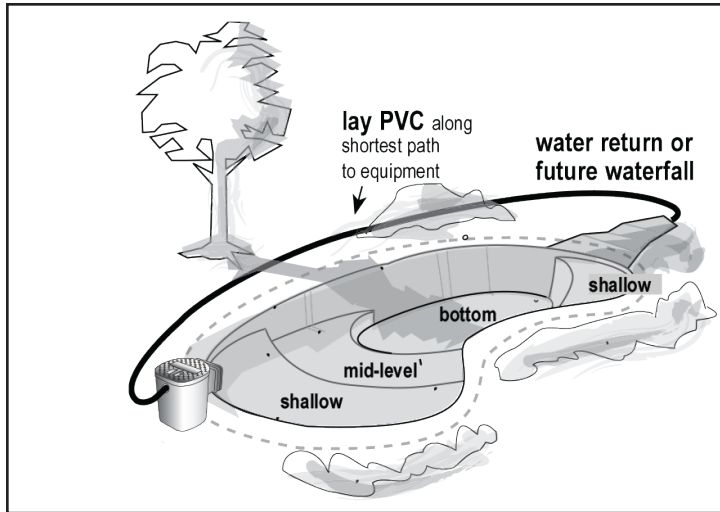
OPERATING MANUAL

Jolie Products Inc

# High Flow Skimmer™ 5000 Components



# Assembly and Installation



## Placement

**A)** Place the High Flow Skimmer opposite of 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.

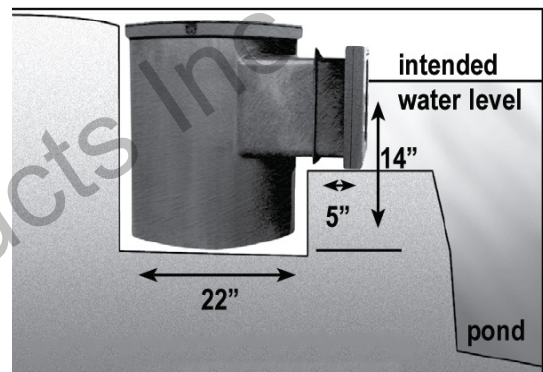
**C)** Waterfalls generally face the viewing area. Place the High Flow Skimmer so it faces the waterfall. This hides the High Flow Skimmer from view and allows for easy access.

**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.



## Mark Water Level

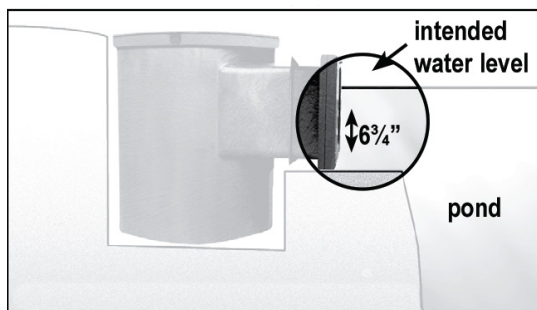
Fill the pond with water and mark position of water level on the liner at the High Flow Skimmer location. Partially drain pond 8"-10" inches before proceeding.



## Dig High Flow Skimmer Hole

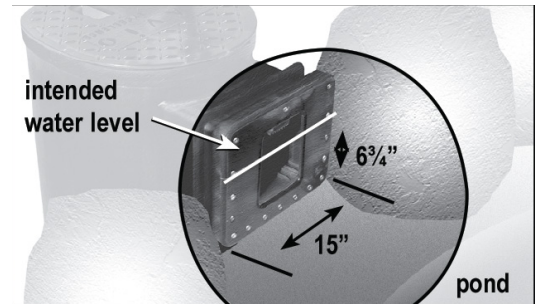
5 inches back from the coping shelf, dig a round hole measuring 22 inches across, with a depth of 14" below the marked water line.

Dig the front of the hole 1/4 inches deeper than the back to compensate for settling.



## Dig Neck Channel (A)

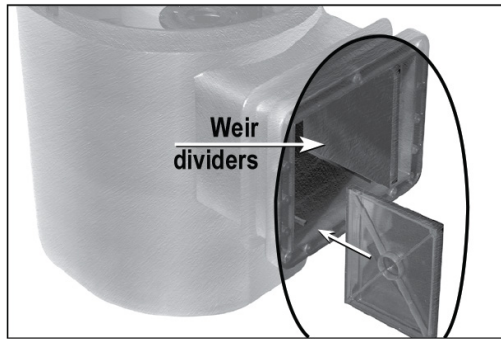
Dig a channel 6 3/4 inches below the water line (see diagram A), and 15 inches wide (see diagram B), to rest the neck of the High Flow Skimmer™. Compact and level the bottom of excavation. **Do not dig too deep or the soil may settle unevenly.**



## Dig Neck Channel (B)

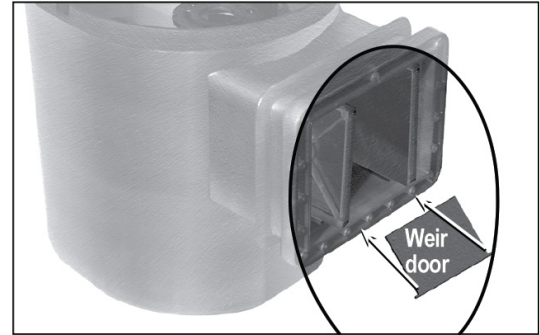


# Assembly and Installation



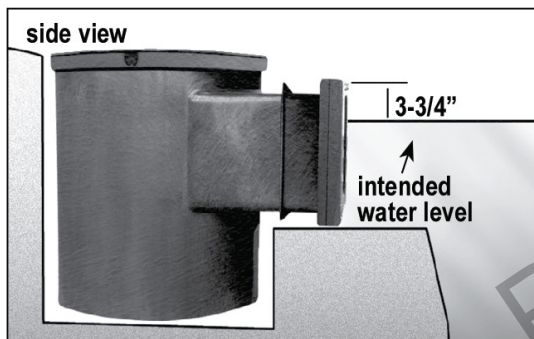
## Insert Weir Dividers

Insert weir dividers for weir, use appropriate tracks as shown in the example that is pictured above.



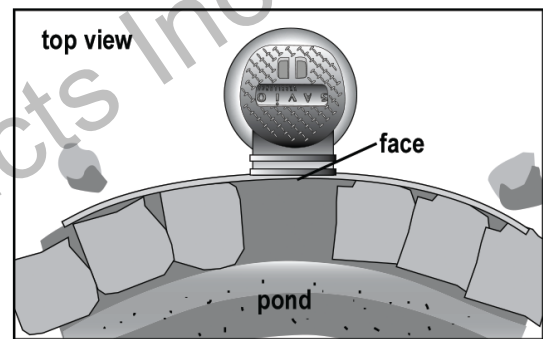
## Insert Weir Door

To secure the weir door, use your thumbs to snap the hinge tabs in place into the bottom set of notches (**NOT the top set**) on the weir dividers. Lay the door horizontal in the High Flow Skimmer neck.



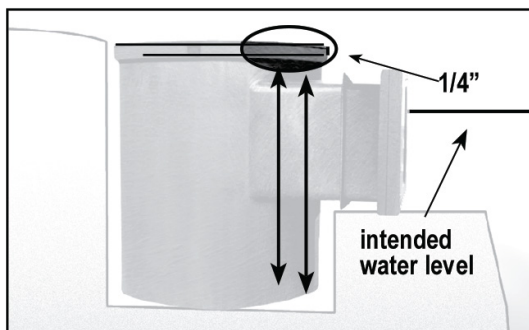
## Place High Flow Skimmer

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.



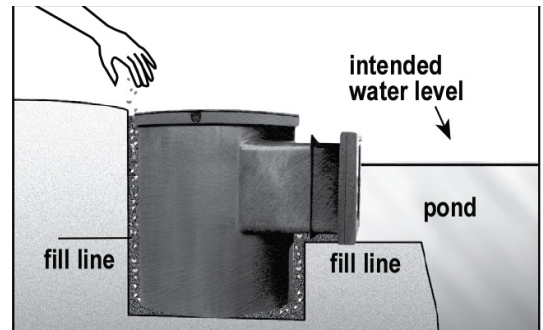
## Check Position

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 inch 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.

# Assembly and Installation



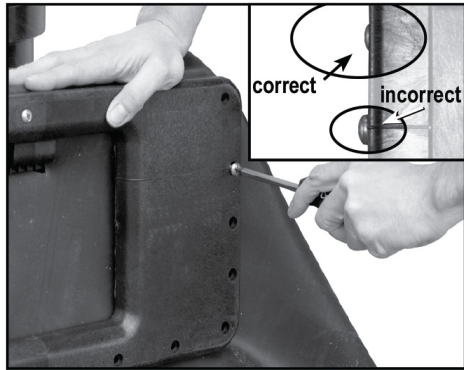
## Pull Liner Over Skimmer

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



## Make incision

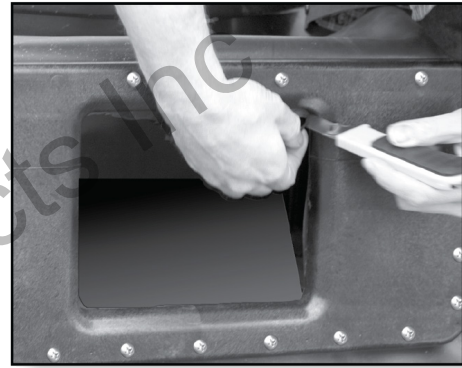
Make a 3" wide incision through the centered liner 3/4" below the top of the High Flow Skimmer opening.



## Attach Faceplate

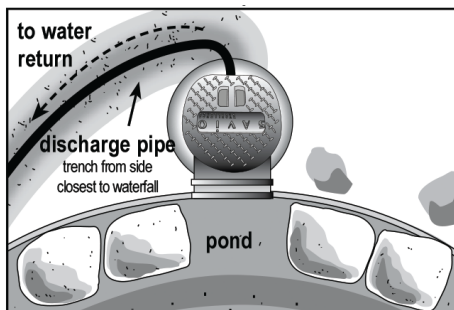
Use a #3 phillips screwdriver to install screws into all four corners. Install the remaining screws. Tighten top, bottom and sides alternately until screw heads are flush to create a watertight seal.

**Do not overtighten. Do not use a power drill.**



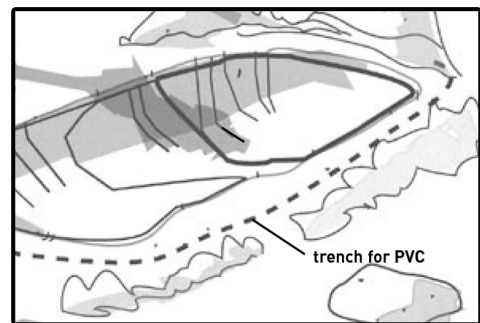
## Trim Liner

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



## Install FreezeFlex™ PVC Pipe

Using FreezeFlex reduces the amount of plumbing joints needed and lowers the potential for leaks. FreezeFlex is more freeze tolerant than Kink Free and glues to standard scheduled 40 PVC fittings.



## Trench for FreezeFlex PVC Pipe

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.

# Assembly and Installation



## Bury FreezeFlex™ PVC Pipe

Bury the FreezeFlex PVC Pipe or Kink Free Tubing below frost line. Your frost line will depend on your geographical location (you will need to research your local area's agricultural zone to acquire this information).

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

The **most important** step is ensuring you are digging safely! Call **811** before you start any digging.. Whether you are digging yourself or hiring professional help, always call a few days in advanced to get your dig site marked so you do not hit buried utilities.



Water Master Solid



## Connect Pump

The High Flow Skimmer tank protects and hides the submersible pump. The leaf basket prevents large debris from entering the pump chamber and reduces clogging. Using a solids handling pump, like the example pictured above, is strongly suggested in your water feature application when using this product.

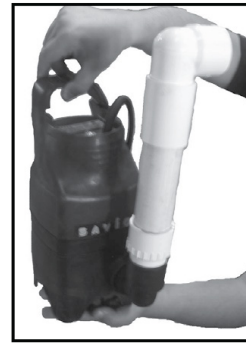


# Assembly and Installation



## Installing Pump and Plumbing

The skimmer pipe hole is above the intended water level and has been precut for pipe sizes 1" to 2" to pass through connecting to the pump discharge assembly. When using the smaller size pipes you may seal the void by purchasing a rubber grommet or using spray foam (**NOT** included).



## Attach Discharge Assembly

Attach discharge assembly to pump prior to installation.



## Lower Pump

Place the pump and discharge assembly into the Skimmerfilter.



## Attach FreezeFlex PVC Pipe

Apply primer, then glue FreezeFlex PVC Pipe to pump discharge assembly.



## Finish Coping

To hide the High Flow Skimmer from view extend coping shelf rockwork up to both sides of the High Flow Skimmer opening.



## Hide Neck

Place a Savio Rock Cover, or flat rock, over the High Flow Skimmer neck to camouflage.



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# Maintenance

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Regularly check and clean the leaf basket assembly to prevent the flow of water from decreasing.

1. Remove basket and dislodge debris.
2. Rinse, if necessary, in a bucket of clean pond water. Avoid using tap water, chlorinated water, soaps or chemicals as this can kill the beneficial organisms living in the ecosystem and poison fish.

# Winterization

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

## **If the pond is to be shut down in Winter:**

1. Disconnect the pump. Clean and store in a dry place.
2. Drain any plumbing lines that are not buried below frost line (check your local area's agricultural zone).
3. Use plumber's tape on pipes and shut-off valves. Insulate the pump housing, any exterior pumps and/or valves exposed to freezing temperatures.
4. Completely empty the tank.



## **Important Safety Instructions**



Locate a GFCI (ground fault current interrupter) protected power source nearby. Typically a 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**

- ✓ Do not attempt to operate electrical devices with damaged cords or plugs
- ✓ Do not attempt to remove any electrical device from the High Flow Skimmer by pulling on its cord

# Troubleshooting

Faults	Possible Causes	Remedies
Pump chamber runs dry during operation	<p>Low water level in pond</p> <p>Weir door closed, stuck or obstructed</p> <p>Weir not large enough for pump flow</p>	<p>Add water to pond. water level should be between 3/4" above or below optimum water mark on faceplate</p> <p>Ensure free movement of weir door / remove obstruction</p> <p>Reduce pump flow Install smaller pump Install larger weir assembly</p>
Water leak around faceplate	<p>Faceplate screw not tight</p> <p>Faceplate not sealed properly/ Over-tightened faceplate screws</p>	<p>Use #3 phillips screw driver to hand-tighten screws snugly</p> <p>Remove weir faceplate, clean liner of mud or gravel, smooth wrinkles. Apply silicone, in a continuous bead, connecting all screw holes on the front-side of pond liner. Then reinstall faceplate over applied silicone.</p>
No skimming action	<p>Weir door closed/stuck/obstructed</p> <p>Pump is not functioning</p>	<p>Ensure free movement of weir door / remove obstruction</p> <p>Check operation of the pump and pump screen (if equipped)</p>

## High Flow Skimmer 5000 Replacement Parts

Code	Item
RC001	Faceplate Screw Pack
RC003	Tank
RC004	Lid
RC006	Baffle
RC005A	Basket Assembly
RC013	Faceplate
RC017	Weir Door
RC009	Weir Dividers (Pack of 2)

## Warranty

Savio Engineering provides a manufacturer's limited warranty of 2 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 and 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.

