

## Skimmer Installation Instructions



The Axiom Pond skimmer is designed to provide mechanical filtration in ponds by skimming the surface of the pond to collect leaves and other debris. Axiom skimmers house submersible pumps and provide a pump chamber that is pre-filtered from debris by the debris net and vertical filter brushes. The biological filtration of the EasyPro pond system is provided by the AquaFalls or Eco-Series waterfall filters. The Axiom skimmer helps keep ponds clean by catching debris and keeping it from settling to the bottom of the pond where it can cause poor water quality.

### PARTS:



PSA5000



PSA7000



PSA9000



PSA11000

### INSTALLING YOUR SKIMMER

#### 1 Determine Placement

Ideal placement is opposite the waterfall or main inlet for improved circulation.

#### 2 Excavate Hole

Once pond has been excavated, determine water level with a transit or laser level. Ideal standing water level is 1" down from top of skimmer opening. Excavate hole for skimmer to proper depth and size.

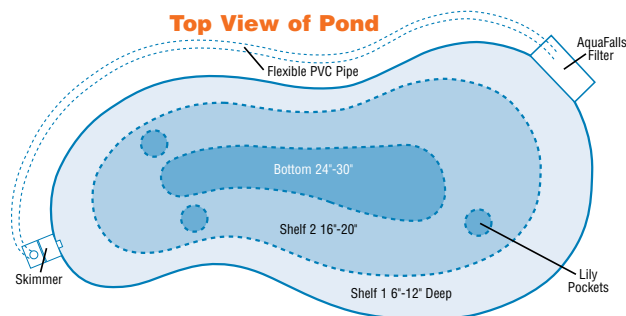
**PSA5000/PSA7000:** Hole should be 22" wide x 32" long x 16 1/2" deep below water level.

**PSA9000/PSA11000:** Hole should be 22" wide x 36" long x 18 1/2" deep below water level.

Make sure to create a solid, compacted and level base in bottom of the hole. If an extension tube is used (SETS2) make sure that hole for skimmer is proper distance from pond edge.

#### 3 Level the Skimmer

Place skimmer into excavated hole. The skimmer must be level from side to side **and** front to back in order to function properly. Once level, insert black PVC spreader bar and install the lid to keep inside of skimmer aligned and clean. Then back fill about 1/3 of the hole to keep the skimmer in place while finishing liner installation, rock and lighting placement.



### INSTALLATION STEPS

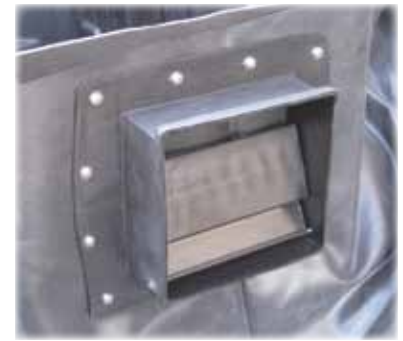
- 1 Determine placement
- 2 Excavate hole
- 3 Level skimmer
- 4 Attach liner
- 5 Connect plumbing
- 6 Connect pump
- 7 Final assembly
- 8 Optional auto-fill
- 9 Optional bottom drain
- 10 Optional external pump



## INSTALLING YOUR SKIMMER

### 4a Attach Liner to Skimmer

- Remove lid in order to have access to inside of skimmer
- Place large bead of silicone (or Firestone Water Stop) around opening. Place a dab of silicone in each bolt hole as well.
- Hold liner up against the face of the skimmer (best done by a second person).
- Place the face plate assembly against the skimmer, with flange toward the pond and weir on the bottom of the assembly. Line up the holes with an awl. **Note:** Do not place silicone on the surface between the faceplate and the liner only between the skimmer tub surface and the liner.
- Secure faceplate assembly in place with bolts and washers.
- Once all the bolts and washers are installed and tightened, the liner can be carefully trimmed from the inside of the skimmer opening.
- A bead of silicone (or Firestone Lap Sealant) can then be applied to the inside edge of where the faceplate and skimmer join for additional water sealant.



**Allow proper drying of silicone before being submersed in water.**

### 4b Optional Extension Tube:

- EasyPro skimmers are the only skimmers available with an extension tube. This patented tube allows location of the skimmer away from the pond edge making it easier to hide. The SETS2 extension tube fits the PSA5000, PSA7000 and PSA9000 skimmers.
- The extension tube bolts to the front of the skimmer.
- Use a thick bead of silicone around the opening on the skimmer then bolt the tube to the skimmer
- Make sure the tube is level while connections are made. Be sure soil is compacted tightly under extension tube to prevent future settling.
- Silicone the opposite end of the extension tube in the same manner and connect to liner using same steps as 4a.



## 5 Connecting the Plumbing

### For all skimmers:

- Use only PVC threaded fittings for plumbing connections to Axiom skimmers.
- Use Teflon tape (in moderation) on all threaded connections to ensure water tight seals
- Pre-determine which hole(s) will be used for overflow and pump return lines
- Adjustable overflow: The included PVC elbow can be adjusted to control the water level in the pond by rotating to desired angle. This is useful for ponds at the bottom of a stream or waterfall system to accommodate the extra water when system is shut down.



### PSA5000/PSA7000:

#### Outgoing Plumbing

- On the interior of the skimmer thread the 2" PVC male spigot adaptor to the outgoing hole.
- On exterior of the same hole thread the 2" PVC male adaptor to the outgoing hole.
- Connect the AquaFalls/return PVC plumbing line to exterior fitting with PVC primer and glue.

#### Adjustable Overflow Plumbing

- Use second hole for connecting the overflow plumbing
- On the interior of the skimmer thread the 2" PVC threaded street elbow to the second hole.
- On the exterior of the same hole thread a 2" PVC male adaptor.
- Connect the overflow PVC line to the exterior fitting with PVC primer and glue.



## INSTALLING YOUR SKIMMER

### PSA9000/11000:

Single pump applications will use the 3" pre-installed connection and dual pump applications will use both of the 2" connections.

#### Single 3" Pump Outgoing Plumbing:

- On the interior of the skimmer thread 2" overflow elbow to appropriate hole to allow enough room to turn in place.
- On the interior of the skimmer thread the 3" half nipple fitting to the outgoing hole.
- On the exterior of the skimmer a 3" PVC male adaptor is provided. However, a 3" half nipple will be better to use with a 3" swing check valve on exterior of skimmer.
- Connect the AquaFalls/return PVC plumbing line to exterior fitting(s) with PVC primer and glue.

#### Single 3" Pump Adjustable Overflow plumbing:

- Use one of the 2" connections to attach the overflow plumbing. Do this before installing 3" fitting on interior of skimmer. Use 2" PVC plug on remaining hole.
- On the exterior of the overflow hole thread a 2" PVC male adaptor.
- Connect the overflow PVC line to the exterior fitting with PVC primer and glue.

#### Dual 2" Pump Outgoing Plumbing:

- On the interior of the skimmer thread both 2" PVC male spigot adaptors to the outgoing holes.
- On exterior of the skimmer thread both 2" PVC male adaptors to the outgoing holes.
- 3" hole may be used as overflow (additional fittings needed) or use 3" PVC plug.
- Connect the AquaFalls/return PVC plumbing lines to exterior fitting(s) with PVC primer and glue.

#### Dual 2" Pump Adjustable Overflow plumbing:

If 3" hole is plugged, an additional hole needs to be drilled in the skimmer to accommodate a bulkhead fitting for overflow connection.

#### 2" Bulkhead Install (bulkhead not included):

- Determine best side of skimmer for 3" diameter hole. Measure 5" down from top of skimmer (or 4" down from upper rim, see picture)
- Install 2" bulkhead fitting. Make sure rubber gasket is inside tub.
- On the interior of the skimmer thread the 2" PVC threaded street elbow to bulkhead hole.
- On the exterior of the same hole thread a 2" PVC male adaptor (not provided).
- Connect the overflow PVC line to the exterior fitting with PVC primer and glue.



## 6 Connecting the Pump:

### PSA5000/PSA7000:

- A properly sized check valve assembly should be attached to the pump. Lower the pump into skimmer and secure it to the outgoing plumbing.
- If using the fittings provided, the spigot fitting inside the skimmer can be fitted into a rubber coupler connection or slip PVC connection.
- Other fittings can be used. The pre-installed connection in the skimmer is 2" fpt.
- Place the pump cord in the pre-cut slot where it exits the skimmer.



### PSA9000/PSA11000:

- A properly sized check valve assembly should be configured for the pumping/return line. The pump(s) can be lowered into the pump chamber and secured to the outgoing plumbing. 3" check valve assemblies will require assembly on the outside of the skimmer due to space limitations.
- If using the fittings provided, the half-nipple fitting inside the skimmer can be fitted inside a rubber coupler connection (clamps) or slip PVC connection (PVC primer and glue).
- Other fittings can be used. The pre-installed connections are 3" fpt and 2" fpt.
- Place the pump cord in the pre-cut slot where it exits the skimmer.



# INSTALLING YOUR SKIMMER

## 7 Final Assembly

- The PVC spreader bar should already be installed from step 3.
- Install the filter brush rack and debris net in the appropriate position for your skimmer.
- Adjustable overflow: The elbow can be adjusted to control the water level in the pond by rotating to desired angle. This can be useful if the pond is at the bottom of a stream or waterfall system that would normally overflow the pond when shut off in a traditional overflow set up.
- Install lid and finish back filling excavated hole.



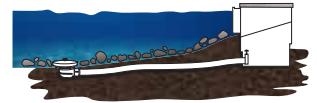
## 8 Optional Autofill

- An auto fill device can be installed in the Axiom skimmers to help maintain consistent pond water level. Location in skimmer and type of device will vary. The EasyPro Box style fill valve BFS or brass WFS37/WFS50 fill switches are good options.



## 9 Optional Bottom Drain Attachment

- For ponds deeper than 3' a bottom drain is recommended. A bottom drain can be connected to the Axiom skimmer either in the front below the net or on the side below the debris net. The EasyPro 2" bottom drain kits (BDK2N or BDK2A) are good options for the PSA5000/PSA7000 models. The 3" bottom drain kits (BDK3N or BDK3A) are good options for the PSA9000/PSA11000 skimmers.

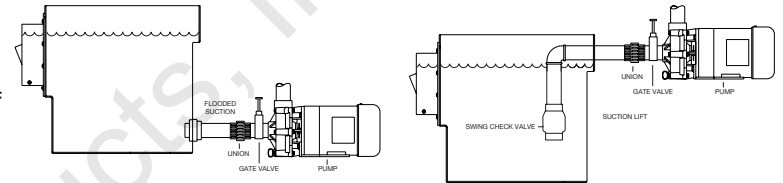


## 10 Optional External Pump Connection

Axiom skimmers can be used with external pumps as well.

**Flooded Suction:** A bulkhead fitting can be installed on the back wall of the skimmer to connect to a centrifugal pump.

**Suction Lift:** By simply installing a check valve/foot valve inside the skimmer an external, centrifugal pump can be used with the Axiom skimmers.



## Maintenance

- The skimmer is designed to collect debris. This debris will need to be cleaned from the debris net and the filter brushes. The cleaning frequency varies due to pond location. During times of heavy surface debris it may be necessary to clean the skimmer more often. Failure to clean out the debris will result in the pump being "starved" for water. Shutting the pump off to clean the debris net and the filter brushes is recommended to keep debris out of the pump chamber.
- In freezing climates it is recommended to pull the pump out if not in operation. It is NOT necessary to drain the skimmer in the winter.

### Limited Warranty Information:

#### Five Year Limited Warranty

- This product is warranted against any mechanical or material defects from the date of purchase - excludes debris net and filter brush rack.
- This limited warranty does not cover accidental damage to the product due to abuse or negligence by the consumer.
- An RMA number must be obtained by calling EasyPro Pond Products at 800-448-3873 and MUST be included on package before returning for warranty issues.

Return warranty items to:

EasyPro Pond Products, 4385 East 110th, Grant, MI 49327

Be sure to include RMA number, original receipt, name, return address and phone number in package.

- In the event of a warranty claim, please return the product postage prepaid with the original receipt for repair or exchange. No warranty claims will be honored without the original receipt.
- The manufacturer or supplier shall not be held liable for any damages caused by defective components or materials of this product; or for loss incurred because of the interruption of service; or any consequential/incidental damages and expenses arising from the production, sale, use or misuse of this product.

