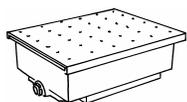


# Little Sub Instruction Sheet



Thank you for purchasing a **Patio Ponds Little Sub**. Your **Little Sub** is a mechanical\biological filter designed to filter goldfish and plant ponds up to 500 gallons. The **Little Sub** is designed for flows from 200-500 gallons per hour.

## Parts List

Your **Little Sub** should come completely assembled. Please check to make sure your filter contains the following:

- 2 - Biological Filter Pads
- 1 - Filter Body with Lid
- 1 - 3/4" Hose Adapter
- 1 - 3/4" x 1/2" MPT Adapter

## Additional Parts Needed

Installing the **Little Sub** is simple, requiring few tools if any. You may need the following parts from your pond dealer:

- Hose Adapters (to adapt 3/4" tubing to pump of your choice)
- 3/4" ID Flexible Tubing

## Installation Instructions

**1.** Install the **Hose Adapter** to the 3/4" **FPT Outlet** of the **Little Sub**

**OR...** if you are using a **Beckett Versa Gold** pump you may thread the intake of the pump directly to the 3/4" **FPT Outlet** and skip step 2.

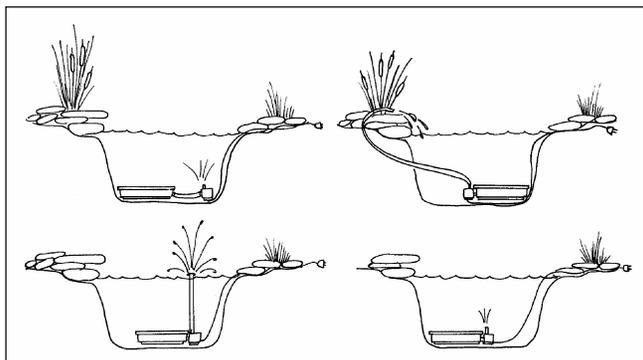
**OR...** if you have a **Supreme Mag Drive** pump with a 1/2" FPT inlet, you may use the included adapter to attach the 3/4" **FPT Outlet** to the pump intake and skip step 2. If you did not receive an adapter, write to Patio Ponds at the address below. Please state your request and include your return address.

**2.** Run an appropriate length of **Flexible Tubing** to the intake of your pump.

**3.** Submerge your **Little Sub** and allow air bubbles to escape. A rock may be placed in the bottom of the filter if it continues to float.

**4.** Attach pump outlet to a water feature of your choice and turn on pump. You **Little Sub** is now installed!

Suggested Installation Options



Proper maintenance of your filter will yield the best water quality and clarity. Please follow the recommended maintenance instructions to gain the best performance from your filter.

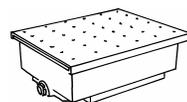
The filter matting in your filter provides an area for beneficial nitrifying bacteria to colonize and break down harmful wastes such as ammonia and nitrite. You should clean the filter mats regularly (but not more than every 2 weeks). To clean your filter:

- 1.** Turn off pump and lift filter gently from water
- 2.** Remove filter pads from filter and place into a large container of pond water. Squeeze, shake and swish pads to remove debris
- 3.** Repeat step two if necessary, using pond water only.
- 4.** Place filter mats back into filter and turn on pump

**IMPORTANT NOTE: NEVER** use tap water to clean the biological chamber of the filter. Use **pond water only** to preserve the colony of beneficial nitrifying bacteria. **Failure to do so will severely effect the performance of your filter!**

Manufactured in the USA by Patio Ponds Ltd.  
2909 Urbana Pike (Rt. 355) Ijamsville, Maryland 21754

# Little Sub Instruction Sheet



Thank you for purchasing a **Patio Ponds Little Sub**. Your **Little Sub** is a mechanical\biological filter designed to filter goldfish and plant ponds up to 500 gallons. The **Little Sub** is designed for flows from 200-500 gallons per hour.

## Parts List

Your **Little Sub** should come completely assembled. Please check to make sure your filter contains the following:

- 2 - Biological Filter Pads
- 1 - Filter Body with Lid
- 1 - 3/4" Hose Adapter
- 1 - 3/4" x 1/2" MPT Adapter

## Additional Parts Needed

Installing the **Little Sub** is simple, requiring few tools if any. You may need the following parts from your pond dealer:

- Hose Adapters (to adapt 3/4" tubing to pump of your choice)
- 3/4" ID Flexible Tubing

## Installation Instructions

**1.** Install the **Hose Adapter** to the 3/4" **FPT Outlet** of the **Little Sub**

**OR...** if you are using a **Beckett Versa Gold** pump you may thread the intake of the pump directly to the 3/4" **FPT Outlet** and skip step 2.

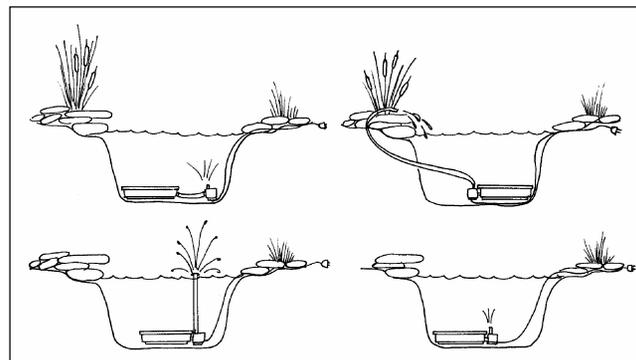
**OR...** if you have a **Supreme Mag Drive** pump with a 1/2" FPT inlet, you may use the included adapter to attach the 3/4" **FPT Outlet** to the pump intake and skip step 2. If you did not receive an adapter, write to Patio Ponds at the address below. Please state your request and include your return address.

**2.** Run an appropriate length of **Flexible Tubing** to the intake of your pump.

**3.** Submerge your **Little Sub** and allow air bubbles to escape. A rock may be placed in the bottom of the filter if it continues to float.

**4.** Attach pump outlet to a water feature of your choice and turn on pump. You **Little Sub** is now installed!

Suggested Installation Options



Proper maintenance of your filter will yield the best water quality and clarity. Please follow the recommended maintenance instructions to gain the best performance from your filter.

The filter matting in your filter provides an area for beneficial nitrifying bacteria to colonize and break down harmful wastes such as ammonia and nitrite. You should clean the filter mats regularly (but not more than every 2 weeks). To clean your filter:

- 1.** Turn off pump and lift filter gently from water
- 2.** Remove filter pads from filter and place into a large container of pond water. Squeeze, shake and swish pads to remove debris
- 3.** Repeat step two if necessary, using pond water only.
- 4.** Place filter mats back into filter and turn on pump

**IMPORTANT NOTE: NEVER** use tap water to clean the biological chamber of the filter. Use **pond water only** to preserve the colony of beneficial nitrifying bacteria. **Failure to do so will severely effect the performance of your filter!**

Manufactured in the USA by Patio Ponds Ltd.  
2909 Urbana Pike (Rt. 355) Ijamsville, Maryland 21754

## Warranty

This Patio Ponds filter is guaranteed by the manufacturer against defects in material and workmanship for as long as the original purchaser shall own the product.

This warranty is void if the filter is abused, misused (filter placed at an improper site, allowing the filter to freeze while filled with water, accidental physical damage, etc.) or altered in any way.

This warranty covers the filter body only and excludes any damage or responsibility for any property, livestock or labor.

Patio Ponds Ltd will replace or repair any unit at its discretion. All freight must be paid by the customer.

**Purchased Date:** \_\_\_\_\_

**Purchased From:** \_\_\_\_\_

For warranty claims, please return the filter body only freight pre-paid to:

Patio Ponds Ltd  
Attn: Warranty Department  
2909 Urbana Pike  
Ijamsville, MD 21754

## Warranty

This Patio Ponds filter is guaranteed by the manufacturer against defects in material and workmanship for as long as the original purchaser shall own the product.

This warranty is void if the filter is abused, misused (filter placed at an improper site, allowing the filter to freeze while filled with water, accidental physical damage, etc.) or altered in any way.

This warranty covers the filter body only and excludes any damage or responsibility for any property, livestock or labor.

Patio Ponds Ltd will replace or repair any unit at its discretion. All freight must be paid by the customer.

**Purchased Date:** \_\_\_\_\_

**Purchased From:** \_\_\_\_\_

For warranty claims, please return the filter body only freight pre-paid to:

Patio Ponds Ltd  
Attn: Warranty Department  
2909 Urbana Pike  
Ijamsville, MD 21754