Little Tub Instruction Sheet



Thank you for purchasing a Patio Ponds Little Tub. Your Little Tub is a mechanical\biological filter designed to filter goldfish and plant ponds up to 800 gallons. The **Little Tub** is capable of receiving flows up to 1,000 gallons per hour.

Parts List

Before you assemble your **Little Tub** please take the time to Assembly of the **Little Tub** is simple, requiring few tools if any. familiarize yourself with the parts and components of the filter. Your Little Tub should contain the following:

- 1 Spraybar with O-ring and Hose Adapter
- 1 Standpipe Assembly (1 "Tee" and 1½" PVC pipe)
- 2 Biological Filter Mats
- 1 Warranty Registration Card

Additional Parts Needed

However, you will need the following items from your local hardware store before you begin assembly:

Teflon Thread Tape

PVC cement

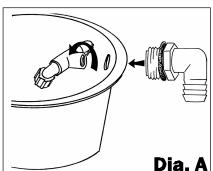
1 - PVC 11/2" Male Adapter

1½" PVC Pipe (length needed depends on application)

PVC elbows and connections (type and number varies with application)

Assembly Instructions

1. Push the **0-ring** over the threads of the **Hose Adapter** until the **O-ring** reaches the last thread. Insert the **Hose Adapter** with O-ring into the small hole at the front of the unit. Attach the Spraybar to the threads of the Hose Adapter. Hand tighten until Spraybar is horizontal and firmly attached. (Diagram A)

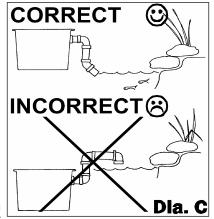


the Standpipe Assembly into the pre-cut holes in the Biological Filter Mats. Slide the "Tee" portion of the Standpipe Assembly onto the output of the filter. (Diagram B)



Dla. B Little Tub on a hard, level surface with the output above pond level. This is needed to allow the return water to feed back into the pond via gravity. (Diagram C)

4. Wrap the threads of a 1½" Male Adapter 2-3 times with Teflon Thread Tape. Thread into output of filter. Using 11/2" PVC and PVC Cement, cement PVC pipe to the 11/2" Male Adapter. Construct and install an appropriate run of pipe to return water to your pond or waterfall. (We recommend the use of hard PVC ONLY to prevent collapse of line.) (Diagram C)



Dla. C flexible Run tubing included) (not

from your pump to Hose Adapter on your Little Tub. You may need to acquire an adapter from your pond dealer to adapt your hose to the 3/4" Hose Adapter.

7. Plug in pump, allow unit to fill. Check for leaks on all PVC fittings. Your **Little Tub** is now installed!

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

Maintaining Your Filter

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 once every 2 weeks) To clean your filter:

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

- 1. Turn off pump
- **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

Troubleshooting

Here is a list of common problems and their solutions. If you do not find a solution, please contact your pond dealer or write to us at:

Patio Ponds Ltd Attn: Technical Support 2909 Urbana Pike Ijamsville, MD 21754

Please include your address and a daytime phone number with your letter.

Filter Overflows

Flow is too strong. Check your pump to make sure it does not pump over 1,000 gallons per hour at the height of your filter. If your pump fills a 5-gallon bucket in under 20 seconds, you will need to regulate the flow with either a valve or diverter.

Outlet pipe is too small/too long. Because the outlet of the Little Tub is not under pressure, the flow rate out of the filter is limited by pipe friction and diameter. Be sure to use PVC pipe of at least $1\frac{1}{2}$ " inside diameter. Long runs of pipe (15 feet or longer) or runs of pipe with many turns may require a larger diameter pipe such as 2" or $2\frac{1}{2}$ " to overcome friction losses.

Filter is below pond level. The Little Tub is not a pressurized filter. Because of this, the filter must be placed above pond level to allow the return flow to drain downhill. Refer to the Assembly Instructions for proper filter placement.

Water Overflows Top of Standpipe Assembly

Filter pads are clogged. The Little Tub is designed with an overflow protection feature to ensure your filter will operate with clogged filter pads. However, the water will bypass the media and you should clean the filter pads per the maintenance instructions.

Filter pads are underneath standpipe assembly. In some instances the filter pads may become lodged under the standpipe. Simply re-align the pads to allow unrestricted flow through the media.

Water Remains Green

Filter has not yet established enough biological activity. Your filter relies on a living organism (nitrifying bacteria) to keep your

water clear. However, it must reproduce in sufficient numbers before your pond will clear. Your filter will need to remain undisturbed for 4-8 weeks with water temperatures over 60°F for proper biological activity to establish. Adding "bacteria in a bottle" specifically designed for ponds can help speed this process.

Filter is being cleaned improperly. Improper cleaning can kill the colony of nitrifying bacteria and harm the balance of your pond. **NEVER** use tap water to clean the biological portion of your filter. Use **pond water only** to preserve the colony of beneficial nitrifying bacteria. <u>Failure to do so will severely effect the performance of your filter.</u>

Filter is undersized/pond is overstocked. The Little Tub is rated to filter goldfish and plant ponds up to 800 gallons. Consider purchasing a larger Patio Ponds filter or reducing the stocking levels in your pond. In certain instances adding additional biological media to the filter (such as bio-balls or other similar high surface area media) may provide the additional support needed for your pond.

Too many organics present in pond water/too few water changes. If too much decomposing debris is present or allowed to build up in the pond (leaves, fish waste, etc.) the filter may be overwhelmed. Be sure to perform partial water changes (25-30%) and vacuum the debris from the bottom of your pond about once a month during the spring and summer months. Always make sure to dechlorinate the replacement water.

Other factors. Sometimes ponds will refuse to clear for many reasons that cannot always be explained. Strong sunlight, high temperatures and various water parameters can all influence the performance of your filter. Consider purchasing a Ultraviolet Sterilizer/Clarifier to ensure clear water. Consult with your pond dealer for correct sizing of a UV Sterilizer.