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› POPOSOAP 12W Solar Pond Filter and Fountain Pump User Manual

## POPOSOAP 12W Solar Fountain Pump

# POPOSOAP 12W Solar Pond Filter and Fountain Pump User Manual

Model: 12W Solar Fountain Pump

Brand: POPOSOAP

## INTRODUCTION

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The POPOSOAP 12W Solar Pond Filter and Fountain Pump is an integrated system designed to maintain clear water and add aesthetic water features to your outdoor pond. This eco-friendly solution utilizes a 12W solar panel to power a 160GPH pump, ensuring continuous water circulation and filtration without additional electricity costs. The system is suitable for small to medium-sized ponds, koi ponds, and water gardens, supporting both fountain and waterfall functions.



Image: The complete POPOSOAP 12W Solar Pond Filter and Fountain Pump system, showcasing the solar panel, filter box, and fountain nozzle.

## KEY FEATURES

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- **Solar-Powered Operation:** Equipped with a 12W high-efficiency solar panel for an environmentally friendly and cost-effective solution.
- **Integrated Filtration:** Combines a 160GPH pump with biological filtration media (filter sponges, bio-balls, bio ceramic rings) to effectively remove debris and improve water clarity.
- **Dual Water Features:** Supports both fountain displays with included nozzles and waterfall creation via 6.6ft PVC tubing.
- **Adjustable Flow Control:** Customize water output to suit your pond's specific needs.
- **Ultra-Quiet Pump:** Features a low-noise, brushless 160GPH pump for silent operation.

## WHAT'S IN THE BOX

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Your POPOSOAP Solar Pond Filter Kit includes the following components:

- 12W Solar Panel
- 160GPH Pond Pump
- Filter Box with sloped lid
- Filter Sponges (Filter Pad)
- Bio-balls (10 pieces)
- Bio Ceramic Rings
- 4 Sprayer Nozzles (various types)
- 6.6ft PVC Tubing
- Telescopic Rod with Control Valve and Diverter Valve



Image: Detailed view of all included components, including the solar panel, pump, filter box, various nozzles, tubing, and filter media, with dimensions.

## SETUP INSTRUCTIONS

Follow these steps to assemble and install your solar pond filter system:

1. **Place the Pump:** Insert the 160GPH pond pump into the filter box and align the power cord through the designated hole.
2. **Insert Filter Pads:** Place the filter pads in order inside the filter box.
3. **Add Filter Media:** Distribute the bio-balls and bio ceramic rings around the pump and filter pads within the box.
4. **Secure the Lid:** Cover the filter box with its lid and lock the buckles on the sides.
5. **Install Nozzles/Tubing:** Attach the desired fountain nozzle to the telescopic rod, or connect the 6.6ft PVC tubing for a waterfall feature. Adjust the control valve as needed.
6. **Position in Pond:** Place the assembled filter box into your pond. Ensure it is submerged and stable. You may need to put some rocks inside the filter box or press the case with rocks to increase its weight and prevent floating.
7. **Connect Solar Panel:** Connect the solar panel to the pump's power cable. Position the solar panel in a location that receives maximum direct sunlight.



Image: Visual guide illustrating the six steps for assembling the filter box, installing the pump and filter media, attaching nozzles, and connecting the solar panel.

Your browser does not support the video tag.

Video: An official POPOSOAP video demonstrating the assembly and installation of the pond filter with solar fountain pump, showing how to place components and set up the fountain in a pond environment.

## OPERATING INSTRUCTIONS

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The POPOSOAP Solar Pond Filter operates automatically when the solar panel receives sufficient direct sunlight. No manual switching is required for daily operation.

- **Solar Power:** Ensure the solar panel is positioned to receive maximum direct sunlight throughout the day for optimal pump performance. The pump will start operating as soon as enough sunlight is available.
- **Adjusting Water Flow:** Use the control valve on the telescopic rod to adjust the strength and height of the fountain spray.
- **Changing Nozzles:** To change the water feature, remove the current nozzle and attach one of the other three included sprayer nozzles.
- **Waterfall Function:** If using the PVC tubing for a waterfall, ensure the tubing is securely connected to the pump outlet and directed to your desired waterfall location.

## 4 Different Water Spraying Nozzles



Image: Illustration of the four different water spraying nozzles included with the kit, demonstrating various fountain patterns and adjustable water flow.

Your browser does not support the video tag.

Video: An official POPOSOAP video showcasing the 20W solar pond filter and fountain in operation, highlighting its effectiveness in an outdoor pond setting.

## MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your pond filter system.

- **Filter Cleaning:** Periodically remove the filter box lid and clean the filter sponges, bio-balls, and bio ceramic rings. Rinse them with pond water to remove accumulated debris. Avoid using tap water as it can kill beneficial bacteria.
- **Pump Cleaning:** Disassemble the pump as needed to clean the impeller and pump housing. Remove any algae or debris that may obstruct water flow.
- **Solar Panel Cleaning:** Wipe the solar panel surface regularly with a soft, damp cloth to ensure it remains free of dust, dirt, and leaves, which can reduce its efficiency.
- **Water Level:** Ensure the pond water level is always sufficient to keep the pump fully submerged. Running the pump

dry can cause damage.

## TROUBLESHOOTING

If you encounter issues with your POPOSOAP Solar Pond Filter, refer to the following common solutions:

- **Pump Not Working:**

- Ensure the solar panel is receiving direct sunlight. The pump's performance is directly affected by sunlight intensity.
- Check all cable connections between the solar panel and the pump for secure fit.
- Inspect the pump impeller for blockages (e.g., debris, algae) and clean if necessary.

- **Weak Water Flow:**

- Clean the filter media and pump as described in the Maintenance section.
- Ensure the water level in the pond is adequate.
- Adjust the flow control valve to increase water output.

- **Cloudy Water:**

- Clean or replace filter sponges if heavily soiled.
- Ensure the pump is running consistently during daylight hours.
- Consider adding beneficial bacteria to your pond to aid in biological filtration.



Image: Visual representation of how different weather conditions (sunny, cloudy, rainy, winter) affect the performance of the solar pump, with tips for consistent operation.

## SPECIFICATIONS

<b>Brand</b>	POPOSOAP
<b>Model Number</b>	12W Solar Fountain Pump
<b>Power Source</b>	Solar Powered
<b>Pump Flow Rate</b>	160 GPH (Gallons Per Hour)
<b>Max Lift Height</b>	4.9 ft

<b>Suitable Water Depth</b>	Up to 16 inches
<b>Material</b>	Plastic, Polypropylene (PP)
<b>Item Weight</b>	2.08 Kilograms
<b>Tubing Length</b>	6.6 ft

## WARRANTY AND CUSTOMER SUPPORT

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POPOSOAP provides a **1-year warranty** for this product. For any inquiries, technical assistance, or warranty claims, please contact our customer service team.

- **Customer Service:** Available 24/7.
- **Email Support:** [support@poposoapsolar.com](mailto:support@poposoapsolar.com)
- **Phone Support:** 1-877-947-8577 (Mon-Fri, 9am-5pm PST)
- **Website:** [www.poposoapsolar.com](http://www.poposoapsolar.com)