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Biling S025A

Biling 12W Solar Fountain Pump Instruction Manual

Model: S025A | Brand: Biling

INTRODUCTION

This manual provides detailed instructions for the Biling 12W Solar Fountain Pump. Designed for outdoor use, this submersible pump is ideal for fountains, small ponds, and various outdoor water features. It features a tempered-glass laminated solar panel, multiple nozzle options, adjustable flow, dry run protection, and double filtration for reliable performance.

- **12W Solar Fountain Pump:** Features a tempered-glass laminated panel for durability and efficient solar energy conversion.
- **4 Nozzles + Adjustable Flow:** Includes four nozzle options to customize spray patterns and an adjustable flow control for varying water feature sizes.
- **160GPH (605L/H) + 4.9ft Lift:** Provides a maximum flow rate of 160 gallons per hour and a maximum lift of 4.9 feet, suitable for various fountain and pond applications.
- **Dry Run Protection + Double Filtration:** Equipped with dry run protection to prevent damage when water levels are low and a double filtration system that is detachable for easy cleaning.
- **16.4ft (5m) Cord + 90° Adjustable Panel Mount:** Offers flexible placement of the solar panel for optimal sunlight exposure, with a 16.4-foot cord and a 90-degree adjustable mount. Tubing and replacement filters are included.

PACKAGE CONTENTS

Verify that all components are present in the package:

Package Include



Image: Package contents including solar panel, pump, nozzles, and accessories.

- 1 x 12W Solar Panel with 16.4ft (5m) Cord
- 1 x Submersible Pump
- 4 x Nozzle Options
- Extension Tubes
- Ground Stake for Solar Panel
- Tubing
- Replacement Filters

SETUP

Follow these steps to set up your Biling Solar Fountain Pump:

1. **Assemble the Tube:** Connect the appropriate extension tubes to the pump outlet.
2. **Install Nozzles:** Select your desired nozzle and attach it to the top of the assembled tube.
3. **Connect Pump to Solar Panel:** Securely connect the pump's power cord to the solar panel's output port.
4. **Position Solar Panel:** Place the solar panel in an area that receives direct sunlight. Use the ground

stake and adjustable mount to angle the panel for maximum sun exposure.

5. **Submerge Pump:** Fully immerse the pump in water. Ensure the water level is sufficient to cover the pump completely.



Image: Installation steps for the solar fountain pump.

For installations using a pipe for water features like waterfalls or streams:

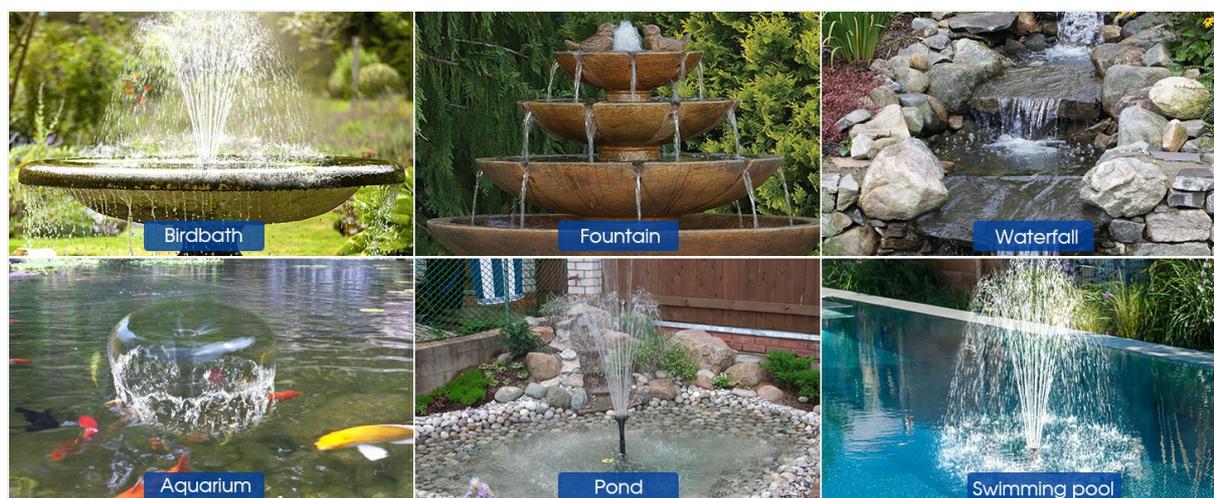


Image: Instructions for installing and using the pump with a pipe.

Watch this video for a visual guide on solar fountain pump usage:

Your browser does not support the video tag.

Video: Demonstrates the solar fountain pump in operation, showcasing various spray patterns and its use in a pond environment.

OPERATING INSTRUCTIONS

The Biling Solar Fountain Pump operates automatically when the solar panel receives sufficient direct sunlight. There is no battery storage, so the pump will only function during daylight hours.

- **Sunlight Dependency:** The pump's performance, including spray height and flow rate, is directly related to the intensity of direct sunlight hitting the solar panel.
- **Nozzle Selection:** Choose from the four included nozzles to achieve different spray effects. Easily swap nozzles by detaching the current one and attaching another.
- **Adjustable Flow:** The pump features an adjustable flow control. Rotate the dial on the pump to

increase or decrease the water flow and spray height.

4 Different Nozzle Spray Effects



Image: Nozzle options and adjustable water flow mechanism.

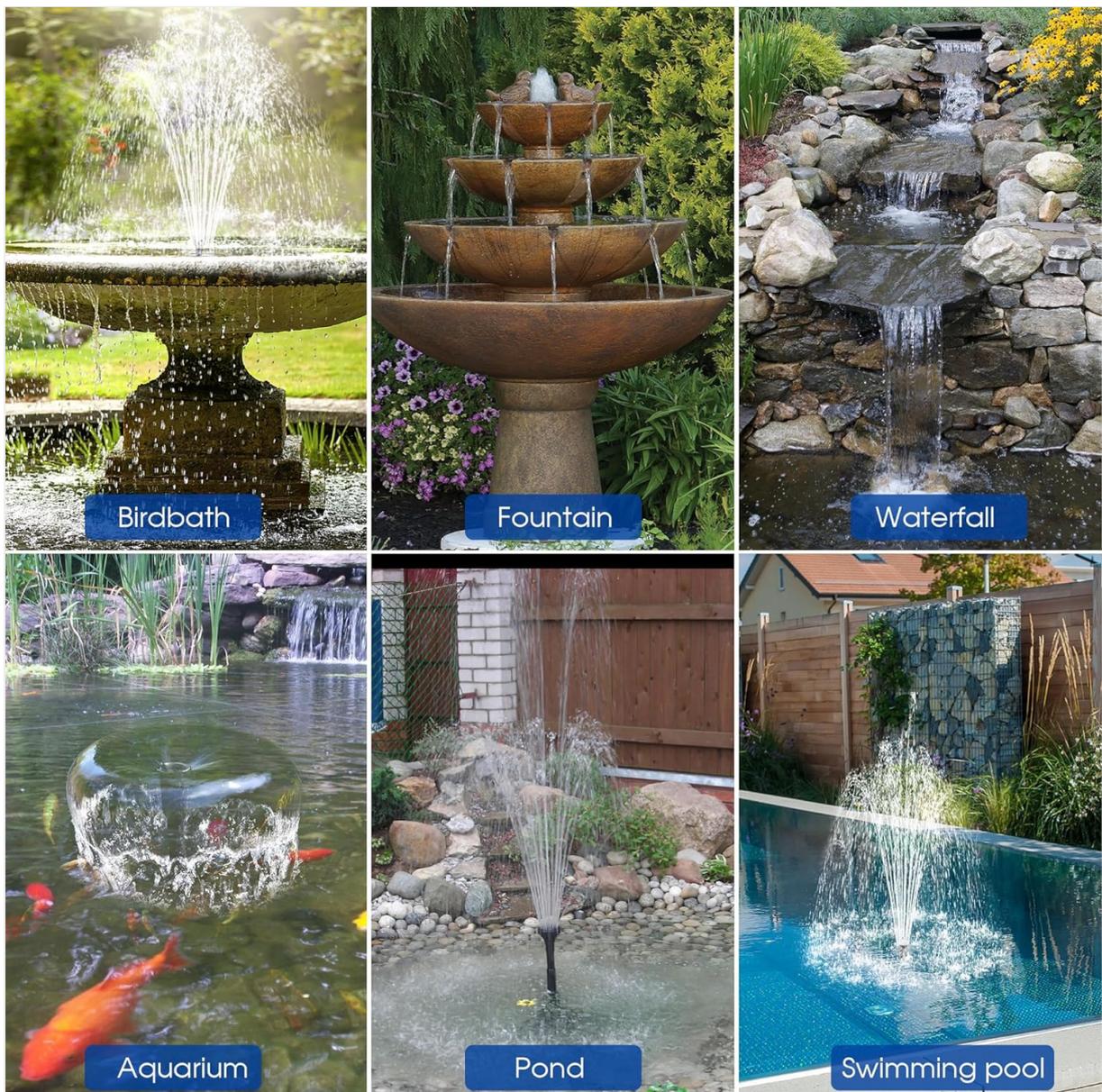


Image: Examples of the solar fountain pump in different water features.

For a detailed look at the pump's functions, refer to this video:

Your browser does not support the video tag.

Video: Explains the functions and features of the solar fountain pump.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your solar fountain pump.

- **Clean Filters:** The pump features a double filtration system to prevent debris from entering. These filters are detachable for easy cleaning. Regularly remove and clean the filters to maintain strong water flow.
- **Clean Solar Panel:** Periodically wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or leaves that may obstruct sunlight and reduce efficiency.
- **Check Water Level:** Ensure the pump is always fully submerged in water. Low water levels can trigger the dry run protection and potentially damage the pump over time.
- **Winter Storage:** In freezing conditions, remove the pump from the water and store it indoors to prevent damage from ice.

Multiple Protection Powerful Pump

- Double filter design to filter out impurities
- Detachable pump for cleaning and fixing
- Adjustable water flow



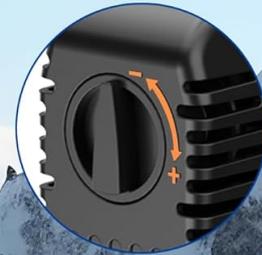
Max flow rate:

160 GPH (605L/H)



Max lifting height:

1.5m



Adjustable flow rate



Anti-Dry run protection

Replacement filters x3

TIPS: Clean the pump regularly to extend its lifespan

Image: Pump with detachable filters and dry run protection.

TROUBLESHOOTING

If your solar fountain pump is not operating as expected, consider the following common issues and solutions:

Problem	Possible Cause	Solution
Pump not working or weak flow	Insufficient direct sunlight	Relocate the solar panel to an area with maximum direct sunlight. Ensure no shadows are cast on the panel.
Pump not working or weak flow	Solar panel is dirty or blocked	Clean the surface of the solar panel to remove any dirt, dust, or debris.
Pump not working or weak flow	Water level is too low	Add water to ensure the pump is fully submerged. The dry run protection will activate if water is too low.

Problem	Possible Cause	Solution
Pump not working or weak flow	Pump is clogged with debris	Remove the pump from the water and detach the filters. Clean any debris from the filters and the pump impeller.
No water spray	Nozzle or tube is blocked	Check the nozzle and any connected tubes for blockages and clear them.
Water spray is inconsistent	Partial sunlight or fluctuating light conditions	Ensure consistent direct sunlight. Performance will naturally vary with cloud cover.

SPECIFICATIONS

Feature	Detail
Brand	Biling
Model Number	S025A
Power Source	Solar Powered (12W)
Maximum Flow Rate	160 GPH (605 L/H)
Maximum Lifting Height	4.9 Feet (1.5 meters)
Cord Length	16.4 Feet (5 meters)
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	16.85"L x 9.13"W x 2.4"H
Item Weight	3.61 pounds
Special Features	Dry Run Protection, Double Filtration, Adjustable Flow, 4 Nozzles
Included Components	Solar Water Pump, Nozzles, Tubing, Filters

WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the product packaging or visit the official Biling website. Keep your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact Biling customer support for assistance. Contact information can typically be found on the product packaging or the manufacturer's official website.

