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› [Smart Solar](#) /

› Smart Solar SunJet 150 Solar Water Pump Instruction Manual

Smart Solar 21410R01

Smart Solar SunJet 150 Solar Water Pump Instruction Manual

Model: 21410R01

INTRODUCTION

Thank you for choosing the Smart Solar SunJet 150 Solar-Powered Water Pump. This manual provides essential information for the safe and efficient operation of your new solar water pump. Please read these instructions carefully before installation and use, and retain them for future reference.

The SunJet 150 is designed for small water features such as bird baths and decorative fountains, operating exclusively on solar power in direct sunlight. It offers an eco-friendly way to add movement and aeration to your water features without additional electricity costs.

PACKAGE CONTENTS

Ensure all components are present before beginning installation:

- Solar Panel with Ground Stake
- Low Voltage Water Pump with Filter
- Connection Cable (approximately 16.5 feet)
- Assorted Fountain Heads (4 types for varied spray patterns)
- Riser Tubes and Connectors
- Floating Base (optional use)
- Suction Cups (for pump attachment)



Image: All components of the Smart Solar SunJet 150 kit, including the solar panel, water pump, various fountain nozzles, and a floating base.

IMPORTANT SAFETY INFORMATION

- **Warning:** This product is not a toy. Adult supervision is required when children are near the water feature.
- Do not operate the pump without water. Dry running can cause damage.
- Ensure the solar panel is positioned securely to prevent it from falling or being damaged.
- Do not attempt to modify or repair the pump or solar panel. Contact customer support for assistance.
- Keep the connection cable away from sharp objects, heat sources, and heavy foot traffic.

SETUP INSTRUCTIONS

1. **Choose a Location:** Select a location for your water feature that receives direct sunlight for most of the day. The solar panel requires full, unobstructed sunlight to operate the pump effectively.
2. **Position the Solar Panel:**
 - Insert the ground stake into the back of the solar panel.
 - Place the solar panel in a sunny spot, ensuring it faces the sun directly. The 16.5-foot cable allows flexibility in placement, such as tucking it away in a side-yard or mounting it on a garage.

3. Prepare the Pump:

- Attach the desired fountain head and riser tubes to the pump outlet. The kit includes 4 different fountain heads for various spray patterns.
 - The pump can be set up in three ways:
 - **Submerged:** Place the pump directly at the bottom of your water feature.
 - **Suction Cups:** Attach the pump to a smooth surface at the bottom of your water feature using the integrated suction cups.
 - **Floating:** Attach the pump to the provided floating base and place it on the water surface.
4. **Connect the Pump to the Solar Panel:** Plug the pump's connection cable into the socket on the back of the solar panel. Ensure a secure connection.
5. **Fill the Water Feature:** Fill your bird bath or water feature with sufficient water to completely submerge the pump.
6. **Initial Operation:** Once the solar panel receives direct sunlight, the pump will begin to operate, creating a fountain effect.



Image: The Smart Solar SunJet 150 pump installed and operating in a bird bath, creating a gentle water stream.

OPERATING INSTRUCTIONS

The Smart Solar SunJet 150 is designed for simple, automatic operation:

- **Direct Sunlight Operation:** The pump will only operate when the solar panel is exposed to direct, full sunlight. Performance will vary with sunlight intensity.
- **No Battery Storage:** This model does not include a battery for energy storage. The pump will stop working if clouds pass over the sun or at dusk.
- **Water Flow:** The pump has a water flow capacity of up to 40 gallons per hour. The height and pattern of the fountain will depend on the chosen fountain head and the intensity of sunlight.





Images: Examples of fountain spray patterns created by the SunJet 150, demonstrating both a multi-jet and a single-jet option.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your solar water pump:

- **Clean the Pump Filter:** Periodically remove the pump from the water and clean the filter to prevent blockages from debris, algae, or mineral deposits. A clogged filter will reduce pump performance.
- **Clean the Solar Panel:** Wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, and bird droppings. A clean panel ensures maximum sunlight absorption.
- **Maintain Water Level:** Ensure the water feature always has enough water to fully submerge the pump. Evaporation can quickly lower water levels, especially in direct sunlight.
- **Winter Storage:** In freezing conditions, remove the pump and solar panel from the water feature. Clean them thoroughly and store them in a dry, frost-free location.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump not operating or weak flow.	Insufficient direct sunlight. Solar panel is dirty or shaded. Pump filter is clogged. Water level is too low. Connection cable is loose or damaged.	Relocate solar panel to full, direct sunlight. Clean the solar panel surface. Clean the pump filter. Add water to submerge the pump completely. Check cable connection; ensure it is secure.
Fountain spray is inconsistent or stops intermittently.	Intermittent cloud cover. Partial shading of the solar panel. Debris partially blocking the pump or nozzle.	This is normal for solar-powered pumps without battery backup. Ensure solar panel is completely unshaded. Clean pump and fountain nozzle.
Water feature losing water quickly.	Excessive spray height causing water to splash out. High evaporation rate.	Use a fountain head with a lower spray height or adjust the pump's position. Regularly replenish water.

SPECIFICATIONS

- **Model Number:** 21410R01
- **Brand:** Smart Solar
- **Power Source:** Solar Powered
- **Water Flow Capacity:** Up to 40 Gallons Per Hour (GPH)
- **Material:** Plastic
- **Color:** Black
- **Item Weight:** Approximately 1.55 Pounds
- **Solar Panel Cable Length:** Approximately 16.5 feet
- **Voltage:** 110 Volts (Internal system, not external power requirement)
- **GTIN/UPC:** 840594010005
- **ASIN:** B000AKVRMK

WARRANTY AND SUPPORT

The Smart Solar SunJet 150 Solar-Powered Water Pump is covered by a **1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or replacement parts, please contact Smart Solar customer service. Keep your proof of purchase for warranty validation.

Manufacturer: STI Group

