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Spider Farmer SF-Self-Water 4Kit

Spider Farmer Gravity-Fed Self-Watering System Instruction Manual

Model: SF-Self-Water 4Kit (4-Pack, 13 Gallon Reservoir)

1. INTRODUCTION

The Spider Farmer Gravity-Fed Self-Watering System is designed to provide consistent and effortless hydration for your indoor plants. Utilizing gravity, this system automatically delivers water from a central reservoir to each plant base, eliminating the need for electricity and frequent manual watering. This manual provides detailed instructions for the proper setup, operation, and maintenance of your self-watering system to ensure optimal plant growth.

SELF-WATERING SYSTEM

Uses gravity to deliver water from the reservoir to each self watering base—no pumps, no electricity, no daily watering



Image 1.1: The Spider Farmer Gravity-Fed Self-Watering System in operation, showing the reservoir connected to multiple plant bases.

2. PRODUCT OVERVIEW

This self-watering system ensures your plants receive the precise amount of water they need, preventing both over and under-watering. Key features include:

- **Gravity-Fed Operation:** No electricity or pumps are required, making it energy-efficient and reliable.
- **Precise Moisture Control:** Wick lines draw water from the bases to the plant roots as needed, maintaining ideal moisture levels.
- **Large Capacity Reservoir:** A 13-gallon (50L) reservoir provides up to two weeks of automatic watering for a 4-pack system, reducing refill frequency.
- **Adjustable Pot Compatibility:** Each fabric pot base features three sets of wick positions, accommodating 1-2, 3, and 5-7 gallon grow bags.
- **Grow Tent Optimized:** Bases are 15.6 inches in diameter, suitable for 4x4 and 5x5 ft grow tents.

- **Active Water Flow:** Circulates oxygen-rich water to boost growth and prevent root issues.
- **Light-Blocking Lid:** The reservoir lid minimizes light exposure to prevent algae growth, mosquito breeding, and odors.

EFFORTLESS HYDRATION

Wick lines automatically deliver water and nutrients, keeping soil and roots moist



Image 2.1: Illustration of effortless hydration, where plant roots absorb water from the base via wick lines.

ACTIVE WATER FLOW FOR HEALTHIER ROOTS

Unlike static setups, our self-watering base circulates water from a main reservoir, providing fresh, oxygen-rich hydration that boosts growth and prevents root issues

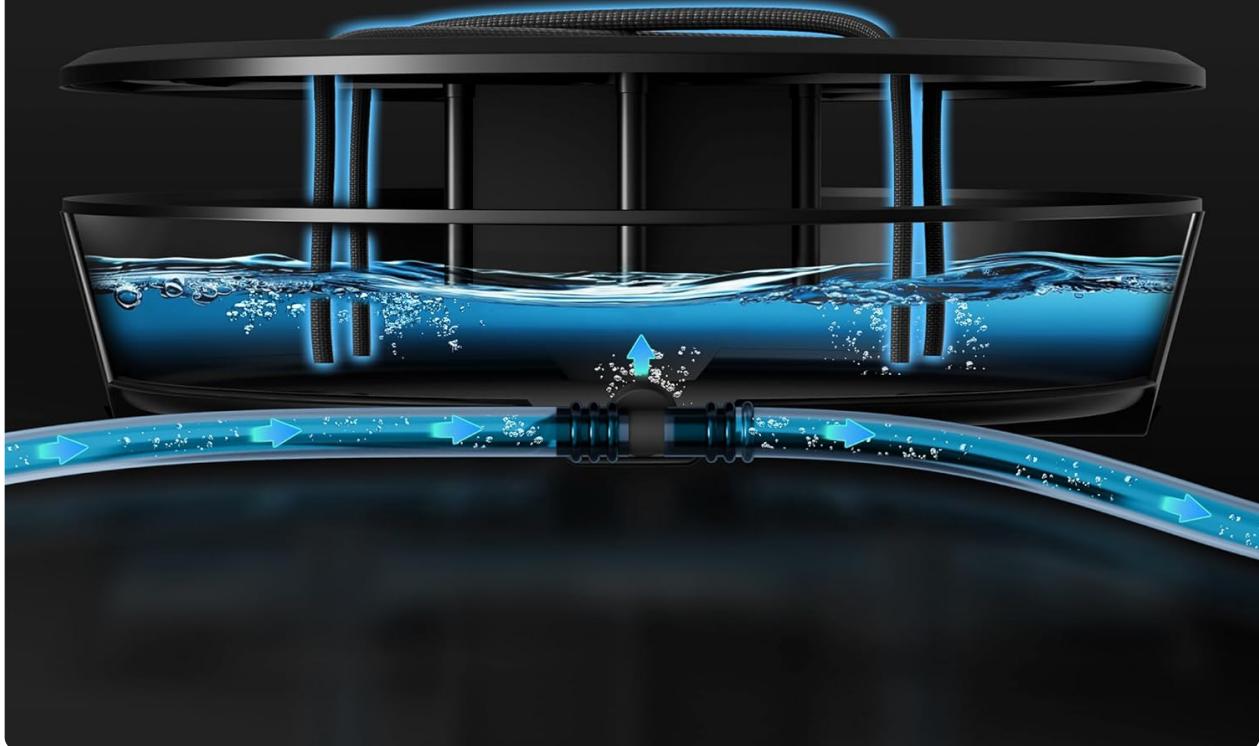


Image 2.2: Active water flow ensures fresh, oxygen-rich hydration for healthier roots.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- 4 x Self-Watering Fabric Pot Bases
- 1 x 13-Gallon (50L) Folding Bucket Reservoir
- 5 x 5-Gallon Grow Bags
- 4 x Wick Lines (0.5m / 19.7 inches each)
- 1 x Shut-off Valve Box
- 1 x Water Tube (3m / 157.5 inches)
- Upright Columns (for reservoir support)
- Interlocking Support Brackets (A and B)

PACKAGE INCLUDES



Image 3.1: Contents of the Spider Farmer Self-Watering System package.

Unboxing Video

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Video 3.1: This video demonstrates the unboxing process of the Spider Farmer Self-Watering System, showing all included components.

4. SAFETY INFORMATION

Please read and understand all safety instructions before operating the system.

- Ensure all connections are secure to prevent leaks.
- Place the reservoir and pot bases on a level surface to ensure proper water flow and prevent spills.
- Do not overfill the reservoir beyond its maximum capacity.
- Keep the system clean to prevent algae growth and maintain optimal performance.

- This system is designed for gravity-fed watering; no external power source is required or should be connected.

5. SETUP

Follow these steps to set up your Spider Farmer Self-Watering System:

- 1. Prepare the Area:** Choose a level surface within your grow tent or desired location. Ensure the area is clean and free from debris.
- 2. Assemble the Reservoir:**
 - Install the five upright columns into the base of the folding bucket reservoir.
 - Screw the shut-off valve into the hole at the lower end of the folding bucket from the outside. Ensure the filter cap is screwed on inside the bucket.
 - Screw the overflow spout into the hole at the top of the folding bucket.
- 3. Prepare Pot Bases:**
 - Take out Interlocking Support Brackets A and B. Cross-assemble them and install them onto the Self-Watering Fabric Pot Cap.
 - Choose an appropriate hole on the pot base cover based on your grow bag size (1-2, 3, or 5-7 gallons).
 - Thread two water-absorbing cotton ropes through the selected water holes on the Self-Watering Fabric Pot Cap cover.
- 4. Connect Components:**
 - Lay out the Self-Watering Fabric Pot Bases, Shut-Off Valve Box, and all silicone tubes flat on the ground.
 - Insert the T-shaped through-hole silicone plug (from the outside) into the water inlet hole at each Self-Watering Fabric Pot Base.
 - Connect the Shut-off Valve Box to the Folding Bucket and the Self-Watering Fabric Pot Bases using the silicone tubes. Ensure all connections are tight and secure.
 - For the last Self-Watering Fabric Pot Base in the line, attach a locking plug to the end of the tube to seal the system.
- 5. Position Plants:** Place your 5-gallon grow bags (or other compatible sizes) onto the prepared pot bases.
- 6. Initial Soil Moistening:** For optimal wicking, ensure the soil in your grow bags is already moist. Very dry soil may not wick effectively initially.
- 7. Fill the Reservoir:** Fill the 13-gallon folding bucket with water. Ensure the reservoir is kept full for continuous water supply.
- 8. Activate Water Flow:** Turn on the shut-off valve on the reservoir. Water will flow into the shut-off valve box, which automatically controls the water volume to the pot bases.

To ensure continuous water supply, the Self-Watering Fabric Pot Base, Shut-off Valve Box, and all silicone tubes are placed flat on the ground and the folding bucket should be kept filled with water.



Image 5.1: Ensure the reservoir and tubes are at appropriate levels for gravity flow.

Setup and Installation Video

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Video 5.1: This video provides a detailed guide for unboxing and installing the Spider Farmer Self-Watering System.

6. OPERATING INSTRUCTIONS

Once set up, the Spider Farmer Self-Watering System operates automatically. Here are guidelines for optimal use:

- Monitoring:** Regularly check the water level in the 13-gallon reservoir. Refill as needed to ensure continuous hydration. A full reservoir can last up to 2 weeks for a 4-pack system.
- Plant Absorption:** Plants will absorb water through the wick lines at their own pace, ensuring they receive the exact amount of moisture required.
- Growth Stage Considerations:**

Growth Stage	Week	Soil Moisture (VWC)	Water per Plant per Week	Self-Watering System Use	Notes
 Seedling	Week 1-2	65-70%	0.05-0.13 gal	 Not recommended	Roots are too shallow to reach wick; top-water manually
 Early Veg	Week 3-4	60-65%	0.26-0.40 gal	Transition period	Continue top-watering until roots reach bottom of the pot
 Late Veg	Week 5-6	~60%	0.53-0.66 gal	 Recommended	Switch to self-watering as roots reach wick line
 Early Flower	Week 7-9	55-60%	0.79 gal	 Highly recommended	Consistent moisture supports flower development
 Full Flower	Week 10-12	50-55%	0.92-1.06 gal	 Highly recommended	Peak water demand—system maintains hydration

Image 6.1: Recommended self-watering system use by plant growth stage.

4-PACK SYSTEM – WATERING DURATION (4 PLANTS)

Growth Stage	Total Daily Water Usage (4 Plants)	Duration with Full Reservoir
 Veg Week 4	0.22 gal/day	~48 days
 Veg Week 5-6	0.38 gal/day	~28 days
 Flower Week 7-9	0.53 gal/day	~20 days
 Flower Week 10-12	0.60 gal/day	~17 days
Realistic average (Veg4-Flower)	~0.44 gal/day	~23 days

Image 6.2: Watering duration for a 4-pack system with a full reservoir.

- **Seedling Stage:** Not recommended for seedlings (Week 1-2) as roots are too shallow to reach the wick. Top-water manually during this period.
- **Early Veg (Week 3-4):** Transition period. Continue top-watering until roots reach the bottom of the pot.
- **Late Veg (Week 5-6) to Full Flower (Week 10-12):** Self-watering is recommended and highly effective as plants have established root systems.
- **Nutrient Delivery:** If using liquid nutrients, add them directly to the reservoir. The system will deliver them with the water.

How the System Works Video

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Video 6.1: This video illustrates the operational principles of the Spider Farmer Self-Watering System.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your self-watering system:

- **Reservoir Cleaning:** Periodically empty and clean the 13-gallon reservoir to prevent algae buildup and sediment accumulation. Use mild soap and water, rinse thoroughly.
- **Pot Base Cleaning:** Clean the self-watering pot bases between grows or if you notice any blockages. Ensure the water channels are clear.
- **Wick Line Replacement:** Inspect wick lines regularly for wear or mineral buildup. Replace them if they become stiff or show reduced wicking capability.
- **Tube Inspection:** Check all silicone tubes for kinks, blockages, or damage. Ensure a smooth, unobstructed water flow.
- **Leak Checks:** Periodically inspect all connections for any signs of leakage. Tighten connections as needed.

8. TROUBLESHOOTING

If you encounter issues with your self-watering system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow to pot bases	Shut-off valve closed, kinked tube, blocked filter, reservoir empty.	Open valve, straighten tubes, clean filter, refill reservoir. Ensure the float in the shut-off valve box is not obstructed.
Plants are dry despite full reservoir	Dry soil, clogged wick lines, roots not reaching wicks.	Manually moisten soil until wicking begins. Clean or replace wick lines. Ensure plants are mature enough for self-watering.
Water leakage	Loose connections, damaged tubing/valve.	Check and tighten all connections (valve, tubes, plugs). Inspect tubing and valve for damage and replace if necessary. Ensure gaskets are correctly installed.
Algae growth in reservoir/tubes	Light exposure, stagnant water.	Ensure reservoir lid is properly closed to block light. Clean reservoir and tubes regularly.
Uneven watering among plants	Uneven surface, varying plant sizes/water needs, partially clogged wicks.	Ensure system is on a level surface. Check wick lines for blockages. Consider adjusting wick positions for different pot sizes.

9. SPECIFICATIONS

- **Model Name:** Spider Farmer Self-Water 4Kit
- **Item Model Number:** SF-Self-Water 4Kit
- **Brand:** Spider Farmer
- **Size:** 4-Pack
- **Number of Pieces:** 4 (referring to the 4-pack system)
- **Number of Sets:** 4
- **Reservoir Capacity:** 13 Gallons (50 Liters)
- **Pot Base Compatibility:** Max. 7-Gallon Grow Bags
- **Pot Base Diameter:** 15.6 inches (39.6 cm)
- **Pot Base Height:** 3.4 inches (8.75 cm)
- **Material:** Eco-friendly PP
- **Item Weight:** 15.91 pounds
- **Package Dimensions:** 20 x 19 x 8 inches
- **Manufacturer:** Spider Farmer

SPECIFICATIONS

Compatibility
Max.7-Gallon Grow Bags

Quantity
4 Pcs

Capacity
7.3Lmax (1.93Gal) /Pot

Material
Eco-friendly PP



Image 9.1: Specifications and dimensions of the self-watering pot base.

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official Spider Farmer website. If you experience any issues not covered in this manual, please contact Spider Farmer customer service for assistance.



[Spider Farmer SF-Self-Water User Manual: Automatic Indoor Plant Watering System](#)

Comprehensive user manual for the Spider Farmer SF-Self-Water automatic indoor grow system. Learn about product features, specifications, installation steps, and maintenance for worry-free plant cultivation.



[Spider Farmer Self-Watering System User Manual](#)

User manual for the Spider Farmer Self-Watering System, detailing specifications, product list, and installation instructions for automatic indoor plant watering.



[Spider Farmer Self-Watering System User Manual](#)

User manual for the Spider Farmer Self-Watering System, providing instructions for assembly, specifications, and maintenance for worry-free indoor growing.



[Spider Farmer Auto Drip Irrigation Kits User Manual](#)

User manual for Spider Farmer Auto Drip Irrigation Kits, providing installation steps, usage instructions, and maintenance tips for efficient indoor gardening.



[Spider Farmer Self-Watering System User Manual | Automatic Indoor Grow Partner](#)

Comprehensive user manual for the Spider Farmer Self-Watering System (SF-Self-Water-04). Learn how to set up, install, and maintain your automatic indoor grow system for optimal plant care.



[Spider Farmer Auto Drip Irrigation Kits User Manual](#)

User manual for Spider Farmer Auto Drip Irrigation Kits, detailing installation steps, usage instructions, and maintenance for indoor growing systems.