

VIVOSUN VSH-IS01

VIVOSUN Automatic Drip Irrigation Kit

Model: VSH-IS01

Instruction Manual

1. PRODUCT OVERVIEW

The VIVOSUN Automatic Drip Irrigation Kit is designed to provide precise and automated watering for your plants. This system includes a submersible pump, a programmable timer, and drip emitters, making it suitable for various growing environments and media.

- **Precise Irrigation:** Professional drip irrigators and regulators ensure uniform and precise water distribution. Drip arrows with flow stabilizers provide efficient water delivery, preventing soil erosion.
- **Automated Watering:** Automated watering cycles are programmable with up to 20 irrigation time settings. Both manual and automatic modes are available, allowing users to customize watering schedules.
- **Efficient Pump:** Equipped with a 15W submersible pump, the system delivers a maximum water flow of 1000L/H with a low noise level of 30-40dB during operation. This automatic irrigation method promotes efficient plant growth.
- **Easy Setup:** The kit is designed for easy setup and use with various water containers, eliminating the need for a tap connection. Fertilizer can be added directly to the water source. A drilling tool is included to prevent siphoning.
- **Versatile Application:** This irrigation kit supports up to 8 pots and is compatible with various growing media, including soil, rockwool, clay pebbles, coco coir, and mixed substrates.

2. SAFETY INFORMATION

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

- Always use the included drilling tool with care to avoid personal injury.
- Ensure the system is set up away from electrical components and in a location that will not be affected by water damage.
- Always turn off the water supply when not in use.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- Timer
- Water Pump
- Regulators (x2)
- Tubing Adapter
- End Cap
- Hole Punch (3-4 mm)
- Tubing (8mm/11mm)
- Tubing (4mm/7mm)
- Drip Emitters (x8)



Image: Overview of the VIVOSUN Automatic Drip Irrigation Kit, showing all included components and their general arrangement.

4. SPECIFICATIONS

Key technical specifications for the VIVOSUN Automatic Drip Irrigation Kit:

Power Input (Pump)	15W, 100 V-120V/60Hz
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Water Flow Rate (Pump)	1000L/H max
Water Lift (Pump)	1.6m
Drip Rate (Typ.)	15L/H per drip emitter
Irrigating Setting	4-8 pots
Number of Drip Emitters	8
Product Dimensions	8.7 x 4.1 x 6.9 inches
Item Model Number	VSH-IS01
Material	Polypropylene, Polyvinyl Chloride

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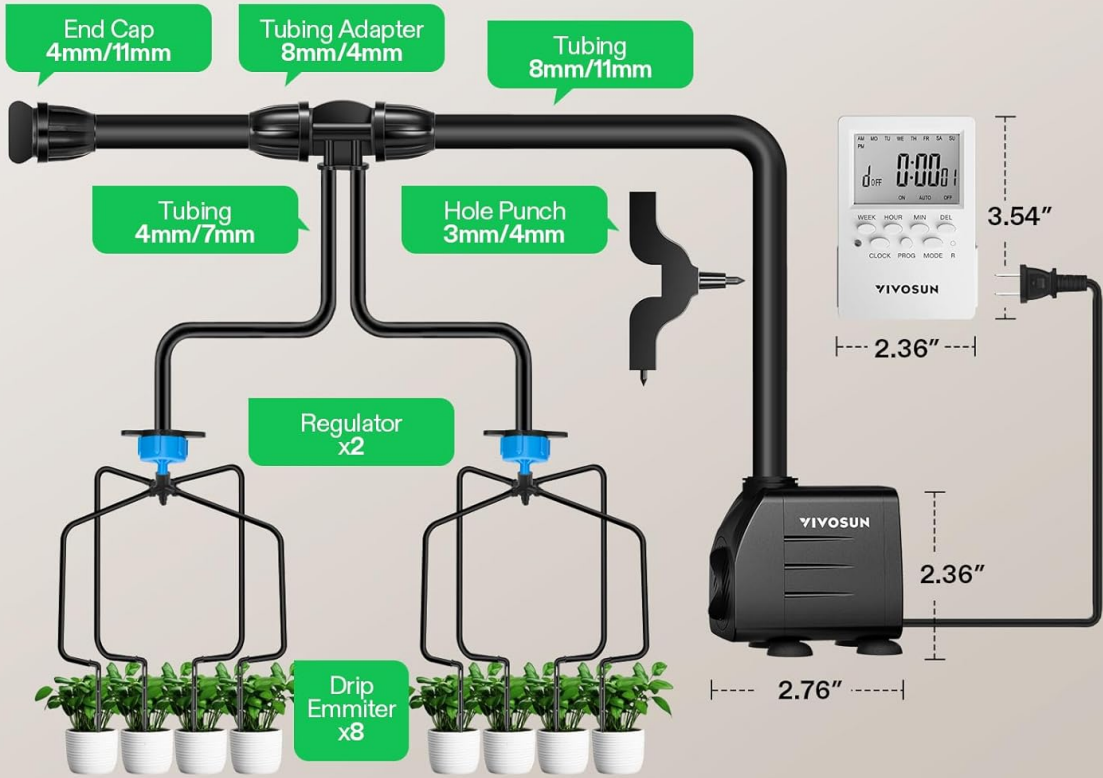


Image: Visual representation of the kit's specifications and a labeled diagram of its main parts.

5. SETUP INSTRUCTIONS

Follow these steps to set up your VIVOSUN Automatic Drip Irrigation Kit:

- 1. Prepare the Pump:** Connect the main tubing (8mm/11mm) to the outlet of the submersible water pump.

Ensure a secure fit.

2. **Connect Tubing Adapter:** Attach the other end of the main tubing to the tubing adapter.
3. **Branch Out:** Connect the smaller tubing (4mm/7mm) from the tubing adapter to the two regulators.
4. **Attach Drip Emitters:** Connect the drip emitters to the regulators. Each regulator can support multiple emitters.
5. **Position Pump:** Place the submersible pump into your water reservoir (e.g., a bucket). Ensure the pump is fully submerged.
6. **Place Drip Emitters:** Position the drip emitters in each plant pot, ensuring they are close to the plant's base for targeted irrigation.
7. **Prevent Siphoning:** Use the included hole punch to create a small hole in the main tubing above the waterline in your water reservoir. This prevents unintended siphoning of water.
8. **Connect Timer:** Plug the pump's power cord into the VIVOSUN timer, then plug the timer into a power outlet.

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Video: A visual guide demonstrating the assembly and setup of the VIVOSUN FlexFeed Automatic Drip Irrigation Kit.



Image: Illustrates the targeted irrigation provided by the drip emitters directly to the plant's root zone.

6. OPERATING INSTRUCTIONS

The VIVOSUN timer allows for precise control over your watering schedule.

6.1 Setting the Timer

The timer can be programmed for up to 20 different irrigation times. Refer to the timer's specific instructions for detailed programming steps. Generally, you will:

1. Press the 'PROG' button to enter programming mode.
2. Use 'WEEK', 'HOUR', 'MIN' buttons to set the desired ON/OFF times for each program.
3. Press 'CLOCK' to exit programming mode and return to the current time display.

6.2 Manual and Automatic Modes

The timer supports both manual and automatic operation:

- **Automatic Mode:** Once programmed, set the timer to 'AUTO' mode. The system will activate and deactivate according to your set schedule.
- **Manual Mode:** Use the 'MODE' button to switch between ON, AUTO, and OFF. In 'ON' mode, the pump will run continuously. In 'OFF' mode, the pump will remain off.

Automatic Irrigation

Users can control watering time and frequency based on their needs, keeping their hands free.



Up to **20 groups**
of irrigation time can be set



Image: The digital display of the VIVOSUN timer, highlighting its programmable features for automatic irrigation.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your irrigation kit.

- **Pump Cleaning:** Periodically remove the pump from the reservoir and clean any debris or mineral buildup from its intake and impeller.
- **Tubing and Emitters:** Inspect tubing and drip emitters for clogs or blockages. Flush the system with clean water if necessary.
- **Reservoir Cleaning:** Clean the water reservoir regularly to prevent algae growth and sediment buildup, which can affect pump performance and water quality.
- **Connection Check:** Ensure all tubing connections remain secure to prevent leaks.

8. TROUBLESHOOTING

If you encounter issues with your irrigation kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow from emitters	Pump not powered, low water level, clogged pump/tubing, incorrect timer setting.	Check power connection and timer mode. Ensure pump is submerged. Clean pump intake and tubing. Verify timer program.
Uneven water flow	Kinked tubing, clogged emitters, improperly adjusted regulators.	Straighten tubing. Clean emitters. Adjust flow regulators for balanced output.
Water leaks	Loose connections, damaged tubing.	Ensure all connections are tight. Inspect tubing for damage and replace if necessary.
Siphoning effect (water drains continuously)	No anti-siphon hole, or hole is below waterline.	Ensure the anti-siphon hole is created in the main tubing and is positioned above the water level in the reservoir.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact VIVOSUN customer service. Keep your purchase receipt for any warranty claims.

Contact information can typically be found on the VIVOSUN official website or through your retailer.