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> VEVOR 54-Site 2-Layer Hydroponics Growing System User Manual

## VEVOR VVGrey2-54

# VEVOR 54-Site 2-Layer Hydroponics Growing System User Manual

Model: VVGrey2-54

## INTRODUCTION

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This manual provides detailed instructions for the assembly, operation, and maintenance of your VEVOR 54-Site 2-Layer Hydroponics Growing System. This system is designed for soilless cultivation, allowing for efficient growth of various plants such as vegetables, fruits, and herbs in an indoor or outdoor environment. Please read this manual thoroughly before use to ensure proper setup and safe operation.

## SAFETY INSTRUCTIONS

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- Always disconnect the power supply before performing any maintenance, cleaning, or assembly.
- Ensure all electrical connections are dry and protected from water. Use a ground fault circuit interrupter (GFCI) for all electrical outlets.
- Do not operate the water pump dry. Ensure it is fully submerged in water when in use.
- Keep the system out of reach of children and pets.
- Use only food-grade nutrient solutions and follow their instructions for safe handling and mixing.
- Place the system on a stable, level surface to prevent tipping.
- Avoid exposing the system to extreme temperatures or direct sunlight for prolonged periods if not designed for such conditions.

## PACKAGE CONTENTS

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Verify that all components are present and undamaged before assembly. If any parts are missing or damaged, contact VEVOR customer service.

- 1 x Set of PVC Planting Pipes (6 pipes, 2 layers)
- 4 x Wheels
- 1 x Timer (24-hour plug-in type)
- 1 x Water Pump (10W)

- 1 x Water Hose
- 1 x Power Plug
- 54 x Planting Baskets
- 54 x Planting Sponges
- 1 x Tweezers
- 1 x Rubber Hammer
- 1 x Instruction Manual
- *Note: A 20L water tank/bucket is suggested but not included.*



Image: All included components for the VEVOR Hydroponics Growing System, laid out for inspection.

## ASSEMBLY AND SETUP

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Follow these steps to assemble your hydroponics system. A rubber hammer is provided to assist with fitting the PVC pipes securely.

1. **Assemble the Frame:** Connect the PVC pipes and connectors to form the two-layer frame structure. Ensure all connections

are tight and secure. Use the rubber hammer gently if needed to fully seat the pipes into the connectors.

2. **Install Wheels:** Attach the four wheels to the bottom legs of the frame.
3. **Attach Planting Pipes:** Secure the six planting pipes onto the assembled frame. Ensure the holes for the planting baskets are facing upwards.
4. **Connect Water Inlet/Outlet:** Connect the water inlet and outlet pipes to the main circulation system. Refer to the diagram for correct orientation.
5. **Position Water Pump:** Place the 10W water pump inside a 20L water tank (not included). Connect the water hose from the pump to the system's water inlet.
6. **Connect Timer:** Plug the water pump into the 24-hour plug-in timer, and then plug the timer into a suitable electrical outlet.
7. **Initial Water Fill:** Fill the water tank with clean water and the appropriate hydroponic nutrient solution according to the nutrient solution manufacturer's instructions. Ensure the water pump is fully submerged.

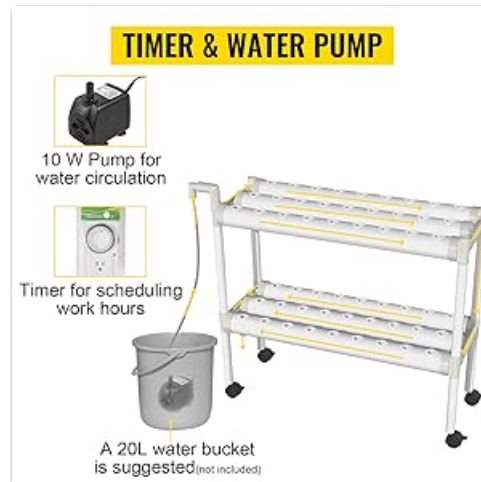


Image: Detailed view of the PVC pipe connections, including water inlet, outlet, and separator.



Image: Overview of the water circulation system, showing the pump, timer, and nutrient solution flow.

## OPERATING INSTRUCTIONS

This section guides you through the process of planting and managing your hydroponic garden.

### 1. Seed Germination:

- Place seeds into the provided planting sponges.
- Keep the sponges moist in a warm environment until sprouts appear.

2. **Transplanting:** Once seedlings have developed a few true leaves and a small root system, carefully transplant them into the

net baskets. Place the net baskets into the holes of the hydroponic pipes.

- 3. Timer Settings:** Set the 24-hour timer for the water pump. Recommended settings are typically 5/15/30 minutes ON and 30/60/120 minutes OFF, depending on plant type and growth stage. Adjust as needed to ensure roots are consistently moist but not waterlogged.
- 4. Nutrient Solution Management:**
  - Regularly check the water level in the reservoir and replenish as needed with fresh water and nutrient solution.
  - Monitor the pH and Electrical Conductivity (EC) of the nutrient solution using appropriate testing kits (not included) to ensure optimal plant growth. Adjust as necessary.
- 5. Lighting:** Ensure your plants receive adequate light. For indoor setups, supplemental grow lights may be necessary.
- 6. Harvesting:** Harvest vegetables, fruits, or herbs as they mature. Many leafy greens can be harvested within 30-60 days.



Image: Visual guide to the planting process from seed to harvest.

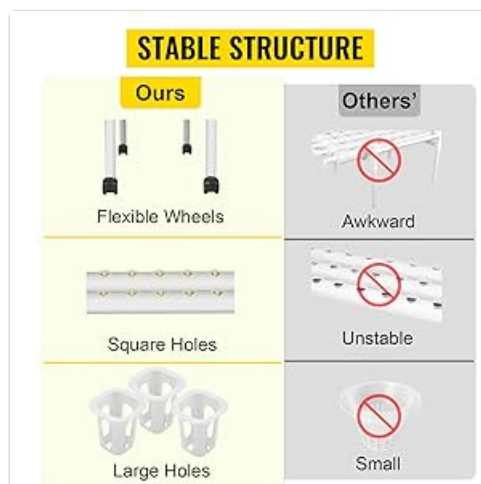


Image: Examples of plants that can be grown using the VEVOR Hydroponics System, including lettuce, strawberries, and herbs.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your hydroponics system.

- **Nutrient Solution Replacement:** Completely drain and replace the nutrient solution every 1-2 weeks, or as recommended by your nutrient solution manufacturer, to prevent nutrient imbalances and pathogen buildup.

- **System Cleaning:** Periodically clean the pipes and reservoir to remove algae and mineral deposits. Use a soft brush and a mild, plant-safe cleaning solution. Rinse thoroughly with clean water.
- **Pump Cleaning:** Disassemble and clean the water pump regularly to remove any debris or mineral buildup that could impede its function. Ensure the impeller is free to spin.
- **Root Management:** Monitor plant roots. If roots become excessively long and begin to clog the pipes, trim them carefully to maintain proper water flow.
- **Check for Leaks:** Regularly inspect all connections and hoses for any signs of leaks and address them promptly.

## TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Water pump not running	No power, clogged impeller, pump not submerged.	Check power connection and timer settings. Disconnect power, clean pump impeller. Ensure pump is fully submerged in water.
Poor water flow or clogs	Debris in pipes, excessive root growth, pump malfunction.	Inspect pipes for blockages and clean. Trim excessive roots. Clean or replace pump if necessary.
Plants not growing well	Incorrect nutrient solution, improper pH/EC, insufficient light, temperature issues.	Verify nutrient solution concentration and type. Test and adjust pH/EC. Ensure adequate light exposure. Check ambient temperature.
Algae growth	Light exposure to nutrient solution, high temperatures.	Ensure reservoir and pipes are light-proof. Reduce ambient temperature if possible. Clean system regularly.
System leaks	Loose connections, damaged pipes/hoses.	Check all PVC pipe connections and hose fittings for tightness. Replace any damaged components.

## SPECIFICATIONS

- **Model:** VVGrey2-54
- **Material:** Food-Grade PVC-U
- **Layers:** 2
- **Plant Sites:** 54
- **Pipe Quantity:** 6
- **Pipe Dimensions:** Approximately 31 inches (78.7 cm) length, 2.5 inches (6.35 cm) diameter
- **Spacing between Holes:** 2 inches (5.08 cm)
- **Overall Dimensions (L x W x H):** Approximately 37.4 x 13.4 x 32.7 inches (95 x 34 x 83 cm)
- **Water Pump Voltage:** AC110 V
- **Water Pump Power:** 10 W
- **Item Weight:** 14.17 pounds (6.43 kg)



Image: Detailed product specifications and dimensions of the hydroponics system and its accessories.

## WARRANTY AND SUPPORT

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VEVOR products are designed for durability and performance. For warranty information, technical support, or to inquire about replacement parts, please contact VEVOR customer service through their official website or the retailer where the product was purchased. Please have your model number (VVGrey2-54) and purchase date available when contacting support. For more information, visit the official VEVOR Store: [VEVOR Store on Amazon](#)