

VEVOR DWC Hydroponics Grow System 2 Buckets+Top Drip Kit

VEVOR DWC Hydroponics Grow System Instruction Manual

Model: 2 Buckets + Top Drip Kit

1. PRODUCT OVERVIEW

The VEVOR Deep Water Culture (DWC) Hydroponics Grow System with Top Drip Kit is designed for efficient and healthy cultivation of leafy vegetables, herbs, and fruits. This system utilizes a deep water culture method combined with a top drip irrigation system to provide plants with nutrient-rich, oxygenated water, promoting faster growth and higher yields.

Key features include durable, corrosion-proof PP planting buckets, a unique top drip design for precise irrigation, a powerful air pump with air stones for optimal root oxygenation, and user-friendly components designed to prevent leakage and simplify maintenance.



Image 1.1: Overview of the VEVOR 5 Gallon DWC Hydroponic System, highlighting increased yield, short growing cycle, and water efficiency.

2. COMPONENTS LIST

The VEVOR DWC Hydroponics Grow System includes the following components:

- **PP Planting Buckets:** Sturdy, durable, corrosion-proof, and temperature-resistant 5-gallon buckets.
- **Planting Baskets:** 8-inch large capacity baskets for root growth.
- **Lids:** Designed to securely fit the buckets and hold the planting baskets.
- **Top Drip Irrigation Tubes:** For precise water delivery to plant roots.
- **Air Pump:** Powerful 4x4 L/min output for oxygenation, with noise levels below 50dB.
- **Air Stones:** Efficiently oxygenate the nutrient solution.
- **Black Feed Air Tubing:** Connects the air pump to the air stones.
- **Water Level Tubes:** Pre-cut for consistent length, allowing easy monitoring of water levels.
- **Water Inlet Tubes:** For adding water and nutrients.
- **Sealing Rings:** Prevent water leakage at connection points.
- **Check Valves:** Prevent backflow in the system.
- **Air Flow Regulators:** To adjust air supply to each bucket.
- **Expanded Clay Pebbles:** Stabilize plants, provide quick drainage, and prevent overflow.
- **Buckles:** For securing tubing.

HYDROPONIC SYSTEM ACCESSORIES



2 x Planting Buckets



2 x Drip Irrigation Tubes



2 x Air Stones



8 x Sealing Rings



4 x Inline Check Valves



2 x Air Flow Regulators



2 x Buckles



1 x 6m Black Feed Air Hose



2 x Red Floating Balls



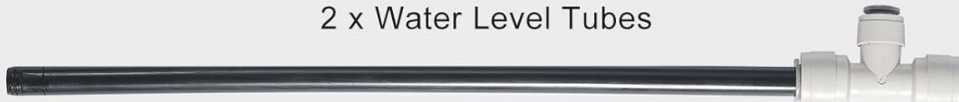
2 x Bags of Expanded Clay



1 x Air pump



2 x Water Level Tubes



2 x Water Inlet Tubes

Image 2.1: Detailed view of all included accessories for the hydroponic system.

3. SETUP INSTRUCTIONS

Follow these steps for easy and time-saving installation of your VEVOR DWC Hydroponics Grow System:

- 1. Install Sealing Rings:** Insert the sealing rings into the designated holes on the buckets to ensure a watertight seal.
- 2. Assemble Water Level Pipe:** Attach the water level tubes to the side of each bucket. These tubes allow you to monitor the nutrient solution level.
- 3. Connect Air Pump and Air Stones:** Connect the black feed air tubing from the air pump to the air stones. Place one air stone at the bottom of each bucket. Ensure the air pump is placed in a dry, accessible location.
- 4. Install Drip Irrigation System:** Connect the drip irrigation tubes and check valves to the water inlet tubes and route them to the top of each planting basket.

5. **Add Nutrient Water:** Fill the buckets with enough nutrient water, ensuring the drip ring is covered.
6. **Add Expanded Clay Pebbles:** Place the expanded clay pebbles into the planting baskets. These pebbles provide support for your plants and aid in drainage.
7. **Transplant Seedlings:** Carefully transplant your seedlings into the planting baskets, ensuring their roots extend below the irrigation ring into the nutrient solution.
8. **Plug in Power:** Connect the air pump to a power source to begin oxygenating the water.



Image 3.1: Visual guide for the four main installation steps: installing sealing rings, assembling water level pipe, attaching hose and air stone, and adding water, planting basket, and clay pebbles.



Image 3.2: Step-by-step guide for planting: adding nutrient water, putting in clay pebbles, transplanting seedlings, and plugging in power.

Setup Video Guide

Video 3.3: A beginner's guide to setting up the hydroponic system, demonstrating the ease of assembly and initial planting steps.

4. OPERATING INSTRUCTIONS

To ensure optimal growth and health for your plants, proper operation of the DWC system is crucial:

- **Water Level Monitoring:** Regularly check the water level using the external water level tubes. The floating ball indicator will show the current level. Replenish water as needed to maintain the desired level, ensuring roots are submerged but not completely drowning the plant stem.
- **Nutrient Management:** Add appropriate hydroponic nutrients to the water according to your plant's specific needs and growth stage. Monitor pH and EC (electrical conductivity) levels of the nutrient solution regularly and adjust as necessary.
- **Air Pump Operation:** Ensure the air pump is continuously running to provide constant oxygenation to the roots. The air stones will create bubbles, enriching the water with dissolved oxygen essential for root health and nutrient uptake.
- **Top Drip Irrigation:** The top drip system provides additional moisture to the top layer of clay pebbles, especially beneficial for young plants or those that prefer top watering. Ensure the drip emitters are not clogged.

MULTIPLE THOUGHTFUL DESIGNS

Promotes faster growth, lush foliage, and higher yields



Image 4.1: Thoughtful designs of the system, including the powerful air pump, efficient air stone, easy water level indicator, and expanded clay pebbles.

5. MAINTENANCE

Regular maintenance is vital for the longevity of your system and the health of your plants:

- **Nutrient Solution Changes:** Change the entire nutrient solution every 1-2 weeks, or as recommended by your nutrient manufacturer, to prevent nutrient imbalances and pathogen buildup.
- **System Cleaning:** Thoroughly clean the buckets, tubes, and air stones every time you change the nutrient solution to remove algae and mineral deposits. Algae can consume oxygen meant for plant roots.
- **Inspect Tubing and Connections:** Periodically inspect all tubing and connectors for signs of wear, algae buildup, or brittleness. Replace any damaged parts to prevent leaks or blockages.
- **Air Stone Cleaning/Replacement:** Clean air stones regularly to ensure efficient bubbling. If they become heavily clogged or worn, replace them to maintain adequate oxygen levels.

6. TROUBLESHOOTING

Here are some common issues and their solutions:

- **Water Leakage:** Check all sealing rings and connections. Ensure they are properly installed and tightened. Replace any worn or damaged sealing rings.
- **Insufficient Oxygenation:** Verify the air pump is running and the air stones are bubbling effectively. Clean or replace clogged air stones. Ensure air tubing is not kinked or blocked.
- **Slow Plant Growth:** Check nutrient solution levels, pH, and EC. Ensure adequate light exposure. Verify proper oxygenation. Adjust nutrient concentration as per plant requirements.
- **Algae Growth:** Ensure buckets are opaque to block light from the nutrient solution. Regularly clean the system during solution changes. Maintain proper nutrient levels.
- **Air Pump Noise:** While the pump is designed for low noise, some vibration may occur. Place the pump on a soft mat or suspend it to reduce noise. Ensure it is not touching hard surfaces.

7. SPECIFICATIONS

Feature	Specification
Brand	VEVOR
Model	DWC Hydroponics Grow System, 2 Buckets+Top Drip Kit
Material	Polypropylene (PP)
Chamber Volume	5 Gallons per bucket
Product Dimensions (L x W x H)	11.81"L x 11.81"W x 14.96"H
Item Weight	11 Pounds
Air Pump Output	4x4 L/min
Air Pump Noise Level	<50dB
UPC	197988226185

Item Model Number: **EHW0002C-DR**

Material: **PP**

Bucket Size:
300x300x380mm/11.81x11.81x14.96 Inch

Bucket Volume: **20L/5.28 Gallon**

Number of Buckets: **2**

Plant Basket Opening: **200mm/7.87 inch**

Product Weight: **5 kg/11.02 lbs**



Image 7.1: Diagram showing key specifications and dimensions of the hydroponic system components.

8. WARRANTY AND SUPPORT

VEVOR products are backed by technical support and an E-Warranty Certificate. For detailed warranty information, technical assistance, or to register your product, please visit the official VEVOR website or contact customer service.