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## VIVOSUN DWC-0001

# VIVOSUN DWC Hydroponics Grow System with Top Drip Kit (Model DWC-0001) - Instruction Manual

Comprehensive guide for setting up, operating, and maintaining your VIVOSUN 5-Gallon Deep Water Culture system.

## INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your VIVOSUN DWC Hydroponics Grow System with Top Drip Kit. Please read this manual thoroughly before use to ensure proper function and longevity of your system. This system is designed for efficient hydroponic cultivation of various plants, including vegetables, fruits, and flowers.

## PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1x 5-gallon PP plant bucket
- 1x 8-inch grow basket
- 1x drip irrigation set
- 1x air pump (8W)
- 2m air tube
- 1x air stone
- 1x clay pebbles pack
- 1x visual water level indicator
- 1x valve connection
- 1x instruction booklet
- Red Floating Ball x1
- Buckle x1
- Sealing Ring x4
- Inline Check Valves x2
- Water Inlet Tube x1

- Elbow Connectors x1



**Image Description:** A clear layout of all components included in the VIVOSUN DWC Hydroponics Grow System kit, such as the 5-gallon bucket, grow basket, air pump, air stone, tubing, clay pebbles, and various connectors.

## SPECIFICATIONS

Feature	Specification
Product Dimensions	13.78 x 13.78 x 15.75 inches
Item Weight	7.48 pounds
Bucket Size	5 Gallons
Grow Basket Size	8-inch
Air Pump Output	7 L/min (Adjustable)

Air Pump Voltage	110-120V/60HZ
Air Pump Power	8W
Noise Level	<40dB
Water Level Indicator	Yes



**Image Description:** An infographic detailing the specifications of the VIVOSUN DWC Hydroponics Grow System, including bucket size (5 gallons), basket size (8 inches), air output (25 L/min adjustable), noise level (<40dB), and presence of a water level indicator.

## SETUP INSTRUCTIONS

Follow these steps to assemble your hydroponics system:

- 1. Prepare the Bucket:** Insert the sealing rings into the designated holes on the bucket. Attach the pipe elbow to the bottom hole and the buckle to the top hole.
- 2. Install Water Level Indicator:** Insert the blue water level indicator tube into the pipe elbow at the bottom of the bucket and secure it with the buckle at the top. Ensure the red floating ball is inside the tube.
- 3. Prepare the Grow Basket:** Cut off the small plastic piece at the bottom of the grow basket to create an inlet for the drip irrigation pipe.
- 4. Assemble Drip Irrigation:** Connect the drip irrigation ring to the water inlet tube. Pass the water inlet tube through the hole you just created in the grow basket.
- 5. Connect Air Hoses:** Cut the air tube to your desired length. Connect one end of the air tube to the air stone and the other end to the air pump. For the top drip system, connect the air tube with the yellow regulating valve to the drip irrigation water inlet pipe.
- 6. Place Grow Basket:** Carefully place the assembled grow basket onto the 5-gallon bucket.
- 7. Connect Air Pump:** Connect the air hoses from the air stone and drip irrigation system to the air pump. Ensure all connections are secure to prevent leaks.
- 8. Add Nutrient Water:** Fill the bucket with nutrient water up to the recommended level, indicated by the visual water level indicator. Ensure the water level is below the bottom of the grow basket.
- 9. Wash Clay Pebbles:** Rinse the clay pebbles thoroughly to remove any dust or debris.
- 10. Add Clay Pebbles and Plant:** Place the washed clay pebbles into the grow basket, ensuring the drip irrigation ring is fully covered. Transplant your seedling into the clay pebbles, making sure its roots extend into the nutrient solution below.
- 11. Power On:** Plug in the air pump. The system will automatically begin circulating water and providing aeration.



**Image Description:** A visual guide showing three key steps for setting up the VIVOSUN DWC Hydroponics Grow System: adding nutrient water, adding washed clay pebbles to cover the drip ring, and transplanting a seedling with roots below the ring before plugging in the power.

## Setup Video Guide

Your browser does not support the video tag.

**Video Description:** An official VIVOSUN video demonstrating the assembly and setup of the 5-Gallon DWC Hydroponics Grow System, showing how to connect components and prepare the system for planting.

## OPERATING INSTRUCTIONS

Your VIVOSUN DWC Hydroponics Grow System is designed for automated operation once set up. Here are key aspects of its functionality:

- **Deep Water Culture (DWC) with Top Drip:** The system combines DWC, where plant roots are submerged in nutrient-rich, oxygenated water, with a top drip irrigation system. This ensures continuous circulation and optimal nutrient absorption.
- **Air Pump Function:** The powerful air pump and air stone continuously supply oxygen to the nutrient solution, which is crucial for healthy root development and overall plant growth.
- **Airflow Regulation:** Use the airflow regulator on the air hose to precisely control the amount of air bubbles and the drip rate to the plants.
- **Water Level Monitoring:** The visual water level indicator allows you to easily monitor the nutrient solution level without opening the system. Refill as needed to maintain the optimal level.
- **Check Valves:** The inline check valves prevent backflow of water into the air pump, protecting the equipment.

# High-Power Air Pumps

Air stones release oxygen to support root growth



**Image Description:** A diagram illustrating the Deep Water Culture (DWC) and Top Feed Recirculating Drip system, showing how water circulates to keep roots healthy and prevent stale water.

# Groove Design

Supports healthy root development.



**Image Description:** A close-up of the VIVOSUN high-power air pump and air stone, highlighting how dense air bubbles promote strong root growth by helping roots absorb water, oxygen, and nutrients.

## MAINTENANCE

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

- **Nutrient Solution Changes:** It is recommended to change the entire nutrient solution every 1-2 weeks, depending on the plant's growth stage and nutrient consumption. This prevents nutrient imbalances and pathogen buildup.
- **pH and EC Monitoring:** Regularly check the pH and Electrical Conductivity (EC) of your nutrient solution. Adjust as necessary to keep them within the optimal range for your specific plants.
- **Cleanliness:** Periodically clean the bucket, grow basket, and all tubing to prevent algae growth and blockages. Use a mild, plant-safe cleaning solution.
- **Air Stone Inspection:** Check the air stone for any blockages or wear. Replace if necessary to ensure efficient oxygen delivery.
- **Pump Maintenance:** Inspect the air pump for proper function. Ensure it is free from debris and operating

quietly.

- **Plant Health:** Regularly inspect your plants for any signs of nutrient deficiency, pests, or diseases. Address any issues promptly.

## TROUBLESHOOTING

Here are some common issues and their solutions:

Problem	Possible Cause	Solution
Water Leakage	Loose connections, damaged sealing rings, improper installation of water level indicator.	Check all connections and ensure they are tight. Verify sealing rings are correctly installed and undamaged. Ensure the water level indicator is fully seated.
Air Pump is Loud	Air pump not fully connected to tubing, pump vibrating on hard surface.	Ensure all tubing connections are secure. Place the air pump on a soft mat or suspend it to reduce vibration.
No Air Bubbles/Water Flow	Air pump not plugged in, air stone clogged, air hose kinked, airflow regulator closed.	Check power connection. Clean or replace air stone. Straighten air hoses. Open airflow regulator.
Plants Not Thriving	Incorrect nutrient levels, improper pH, insufficient light, pests/diseases.	Check and adjust nutrient concentration (EC) and pH. Ensure adequate light exposure. Inspect for and treat pests or diseases.

## WIDE RANGE OF APPLICATIONS

The VIVOSUN DWC Hydroponics Grow System is versatile and can be used in various settings for different types of plants:

- **Plant Types:** Ideal for planting vegetables, fruits, flowers, and other crops.
- **Locations:** Easily fits in grow tents, open areas in gardens, balconies, offices, and homes.

# User-Friendly Design

Professional irrigation system.



**Ceramsite Clay Pebbles Included**  
Promotes airflow and improves drainage



**Check Valves**  
Prevent backflow

**Floating Water Level Indicator**  
Easy-to-see reminder for when to add water

**Image Description:** A visual representation of various plant types, including fruits (strawberries), crops (wheat), flowers, and vegetables (lettuce), that can be successfully grown using the hydroponic system.

# Wide Applications



**Image Description:** Examples of different environments where the VIVOSUN DWC Hydroponics Grow System can be used, including a grow tent, an outdoor garden, a balcony, and a greenhouse.

## SUPPORT

For further assistance or inquiries, please visit the official VIVOSUN website or contact customer support.

**VIVOSUN Store:** [Visit VIVOSUN Store on Amazon](#)

## WARRANTY INFORMATION

Please refer to the product packaging or the official VIVOSUN website for detailed warranty information. Keep your purchase receipt as proof of purchase for any warranty claims.

