

[Manuals.plus](#) /

› [GARDENCUBE](#) /

› GARDENCUBE Hydroponics Growing System Kit HP-GC001 User Manual

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GARDENCUBE Hydroponics Growing System Kit HP-GC001 User Manual

Model: HP-GC001 | Brand: GARDENCUBE

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your GARDENCUBE Hydroponics Growing System Kit HP-GC001. This indoor gardening system is designed to facilitate plant growth using a water-based nutrient solution and an integrated LED grow light, allowing for year-round cultivation of herbs, vegetables, and fruits.

WHAT'S INCLUDED

Your GARDENCUBE Hydroponics Growing System Kit includes the following components:

- Hydroponics Growing System Unit (8-pod capacity)
- LED Grow Light Panel with adjustable height and angle
- Water Pump (quiet operation)
- Planting Baskets (8x)
- Grow Sponges (8x)
- Covers for planting pods (8x)
- Plant Tags (8x)
- Grow Domes (8x)
- Nutrient Solutions (A & B)
- Nutrient Refill Packs
- Power Adapter
- Support Rods for plant growth (8x)



Figure 1: All components included in the GARDENCUBE Hydroponics Growing System Kit.

SETUP INSTRUCTIONS

Follow these steps to set up your hydroponics growing system:

1. **Prepare Seeds and Sponges:** Soak your chosen seeds and grow sponges in pure water for 5-12 hours. This helps with germination.
2. **Insert Seeds into Sponges:** Place your prepared seeds into the soaked grow sponges. Then, insert each sponge into a planting basket. Cover each basket with a grow dome to create a humid environment for germination.
3. **Fill Water Tank and Add Nutrients:** Fill the 3-liter water tank with water up to the maximum fill line. Add 15ml of Nutrient A and 15ml of Nutrient B to the water tank. Ensure the nutrients are well mixed.
4. **Power On and Select Grow Mode:** Connect the power adapter to the unit and a power outlet. Turn on the system using the power button on the control panel. Select the appropriate grow mode (Vegetables or Flowers & Fruits) based on your plants.



Figure 2: Step-by-step visual guide for initial setup.

OPERATING INSTRUCTIONS

LED Grow Light

The system features a 24-watt LED grow light that simulates natural sunlight, promoting photosynthesis. The light operates on an

automatic 24-hour cycle (16 hours on, 8 hours off) once activated. The LED panel can be adjusted up to 180° and has a maximum height adjustment of 21 inches to accommodate plant growth.



Figure 3: Adjustable LED grow light in operation.

Smart Watering System

The hydroponic system includes a quiet smart water pump (less than 20 dB) that runs every 30 minutes. This ensures efficient water circulation and provides oxygen for optimal root development. A water shortage indicator light will alert you when the water level is low, preventing plants from drying out.

Smart Quiet Watering System

Provide enough oxygen for plant roots to thrive



20dB
GardenCube
HP-GC001

60dB
Indoor chat

90dB
Noise



30 Mins
On/Off



Low Water
Auto Off



Low Water
Indicator Light

Figure 4: Smart quiet watering system features.

Control Panel and Grow Modes

The control panel allows you to select between two primary grow modes:

- **Vegetables Mode:** Utilizes Red, Blue, White, and IR LED lights for optimal growth of leafy greens and vegetables.
- **Flowers & Fruits Mode:** Utilizes Red, White, and IR LED lights, suitable for flowering plants and fruit-bearing varieties.

Simply press the corresponding button on the control panel to switch between modes. The system automatically manages the light cycle (16 hours on, 8 hours off) for continuous plant observation and growth.

Smart Control Panel

Growth models for free choice, easy to operate

16 hours / day



Vegetables

Red LED

Blue LED

White LED

IR LED



Flowers &Fruits

Red LED

White LED

IR LED

Figure 5: Smart control panel with selectable growth modes.

MAINTENANCE

Water and Nutrient Management

The 3-liter water tank can sustain plants for 1-2 weeks. Monitor the water level through the transparent window and refill as needed. Add nutrient solutions according to the plant's growth stage and manufacturer's recommendations. Typically, nutrients are added during water refills.

Cleaning

The indoor herb garden features a detachable design for easy cleaning. The grow light pole can be detached to prevent short circuits during cleaning. Regularly clean the water tank and components to prevent algae growth and maintain a healthy environment for your plants.

Detachable Design 3L Large Capacity

Sufficient water for
1-2 weeks

3L



Easy to clean

Water level at a glance

Figure 6: Detachable design for easy cleaning and water level visibility.

TROUBLESHOOTING

If you encounter issues with your GARDENCUBE Hydroponics Growing System, consider the following common solutions:

- **Plants Not Growing:** Ensure the grow light is on for the correct duration (16 hours on, 8 hours off). Check water levels and nutrient concentration. Verify seeds are viable and properly placed in sponges.

- **Pump Not Working:** Check if the power adapter is securely connected. Ensure the water tank has sufficient water. Clean the pump if it appears clogged.
- **Algae Growth:** Algae can form if the system is exposed to too much light or if water is not changed regularly. Ensure grow domes are in place to block light from the water surface. Clean the tank and replace water and nutrients.
- **Water Shortage Indicator On:** Refill the water tank immediately.

For persistent issues, please refer to the Warranty and Support section for contact information.

SPECIFICATIONS

Feature	Detail
Model Number	HP-GC001
Planting Pods	8
LED Grow Light Power	24 Watts
LED Light Adjustment	180° angle, up to 21 inches height
Water Pump Noise Level	Less than 20 dB
Water Pump Cycle	30 minutes on/off
Water Tank Capacity	3 Liters
Light Cycle	16 hours on, 8 hours off (automatic)
Product Dimensions	12.05 x 8.62 x 7.64 inches
Item Weight	3.76 pounds
Manufacturer	GARDENCUBE

WARRANTY AND SUPPORT

GARDENCUBE offers a **2-year service warranty** for all its products. For any questions, technical assistance, or warranty claims, please contact GARDENCUBE customer support. Contact details can typically be found on the product packaging or the official GARDENCUBE website.



ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question