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Agrestem IGS-20SE

Agrestem IGS-20SE Hydroponic Growing System User Manual

Model: IGS-20SE | Brand: Agrestem

1. Introduction

Welcome to the world of indoor gardening with the Agrestem IGS-20SE Hydroponic Growing System. This innovative system allows you to grow fresh herbs, vegetables, and flowers indoors year-round, without soil. Featuring a 12-pod capacity, a powerful 36W LED grow light with 5 color spectrums, and an automatic timer, the IGS-20SE simplifies the growing process, making it accessible and enjoyable for everyone.



Figure 1: The Agrestem IGS-20SE Hydroponic Growing System, showcasing its compact design and capacity for growing various plants like tomatoes, herbs, and strawberries.

2. Setup Guide

Follow these steps to set up your Agrestem IGS-20SE Hydroponic Growing System and begin your indoor gardening journey.

2.1 Unboxing and Components

Ensure all components are present before starting the assembly. Your kit includes:

- Hydroponic System x1
- Adapter x1
- Nutrient Solution x2 (Part A and Part B)
- Dust Cover x12
- Grow Dome x12
- Grow Basket x12

- Grow Sponge x12
- Tweezers x1
- Instruction Card x1



Figure 2: All components included in the Agrestem Hydroponic Growing System kit, ready for assembly.

2.2 Assembly Steps

1. **Prepare Grow Sponges:** Place one grow sponge into each of the 12 grow baskets.
2. **Add Seeds:** Carefully place your desired seeds into the center of each grow sponge. Use the tweezers for small seeds.
3. **Insert Grow Baskets:** Insert the grow baskets with sponges and seeds into the designated holes on the top deck of the hydroponic system. Cover each with a grow dome to create a humid environment for germination.
4. **Fill Water Tank:** Open the water inlet and fill the 5L water tank with fresh water up to the 'Max' line indicated on the water level display.
5. **Add Nutrient Solution:** Add the appropriate amount of Nutrient Solution Part A and Part B to the water tank as per the instruction card. Shake well to mix.
6. **Connect Power:** Plug the adapter into the system and then into a power outlet.
7. **Adjust Lamp Post:** Adjust the height of the lamp post to the lowest setting for germination. As plants grow, raise the lamp post accordingly, up to 23 inches.



Figure 3: Visual guide for the easy planting process, from adding nutrients and seeds to powering on the system.



Figure 4: The adjustable lamp post, demonstrating its flexibility to accommodate plants growing up to 23 inches tall.

2.3 Setup Video Guide

For a visual walkthrough of the setup process, please watch the official product video below:

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Video 1: "Enjoy Planting Indoors with Your Family!" - This video demonstrates the complete setup and initial operation of the Agrestem Hydroponic Growing System, including adding water, nutrients, and adjusting the light.

3. Operating Instructions

The Agrestem IGS-20SE is designed for ease of use with smart features to optimize plant growth.

3.1 Smart Modes: Veg & Flower

The system features two intelligent modes to provide optimal light conditions for different growth stages:

- **Veg Mode:** Ideal for leafy greens, herbs, and young plants. This mode provides a light spectrum that promotes vegetative growth.
- **Flower Mode:** Best for fruiting plants and flowering plants. This mode adjusts the light spectrum to encourage blooming and fruit production.

Simply press the corresponding button on the control panel to switch between modes.



Figure 5: The control panel highlighting the "Veg" and "Flower" mode buttons for selecting the appropriate light spectrum.

3.2 LED Grow Light

The system is equipped with a high-performance 36W LED plant growth light with 100 lamp beads, offering 5 colors of full spectrum light. This simulates natural sunlight, accelerating plant growth up to 5 times faster than traditional soil gardening.



Figure 6: A detailed view of the 36W LED grow light, illustrating its 100 lamp beads and 5-color full spectrum technology for optimal plant growth.

3.3 Automatic Timer

The integrated automatic timer ensures your plants receive the right amount of light daily. The light operates on a 16-hour ON and 8-hour OFF cycle, mimicking natural day-night patterns for healthy plant development.



Figure 7: A visual representation of the automatic timer's cycle, indicating 16 hours of light and 8 hours of darkness for plant growth.

3.4 Automatic Watering System

The 5L large water tank and automatic water circulation system ensure plants are evenly irrigated. A noise-reduction pump increases oxygen in the water, promoting stronger root development and overall plant health.



Figure 8: An internal view of the hydroponic system, illustrating the automatic watering system and the large 5-liter water tank.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Agrestem Hydroponic Growing System.

- **Water Level:** Regularly check the water level display and refill the tank with fresh water and nutrient solution as needed. Do not let the water level drop below the minimum mark.
- **Nutrient Replenishment:** Follow the nutrient solution instructions for proper dosage and frequency. Typically, nutrients should be replenished every 1-2 weeks, or when the water is refilled.
- **Cleaning:** Periodically clean the water tank and pump to prevent algae buildup and ensure proper water circulation. Disconnect power before cleaning. Use a soft brush or cloth and mild soap if necessary, then rinse thoroughly.
- **Pruning:** Prune your plants regularly to encourage bushier growth and prevent overcrowding, which can improve air circulation and light exposure.
- **Replacing Grow Sponges:** After harvesting, replace old grow sponges with new ones for your next planting cycle.

5. Troubleshooting

If you encounter any issues with your Agrestem Hydroponic Growing System, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
Plants not growing or slow growth	Insufficient light, incorrect nutrient levels, old seeds, improper temperature.	Ensure light is at correct height and mode. Check and adjust nutrient solution. Use fresh, viable seeds. Maintain room temperature between 68-78°F (20-25°C).
Algae growth in water tank	Excess light exposure to water, high water temperature.	Ensure grow baskets are properly covered. Clean the tank thoroughly. Consider placing the system in a cooler area.
Pump not circulating water	Pump clogged, low water level, power issue.	Check water level and refill. Disconnect power and clean the pump. Ensure power adapter is securely connected.
Leaves turning yellow or brown	Nutrient deficiency/excess, pH imbalance, overwatering/underwatering.	Check nutrient solution concentration and pH. Ensure water level is maintained correctly. Consult plant-specific guides for optimal conditions.

If the problem persists, please contact Agrestem customer support for further assistance.

6. Specifications

Feature	Detail
Brand	Agrestem
Model Number	IGS-20SE
Color	White
Frame Material	Metal
Inner Material	Aluminum, Mylar
Outer Material	Plastic
Light Source Wattage	36 Watts
Number of Pods	12
Max Plant Height	Up to 23 inches
Water Tank Capacity	5 Liters
Item Weight	4.4 pounds
Package Dimensions	16.75 x 8.86 x 7.68 inches
UPC	196336096074

7. Warranty and Support

Agrestem stands behind the quality of its products. For specific warranty information and to register your product, please refer to the documentation included in your package or visit the official Agrestem website.

For technical support, troubleshooting assistance, or to purchase replacement parts, please contact Agrestem customer service through their official channels. You can also visit the Agrestem Store on Amazon for more information and product offerings.

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