

## DELTA 33'x13' Greenhouse

# DELTA Canopies 33'x13' Heavy Duty Hothouse Greenhouse

Instruction Manual

## 1. INTRODUCTION AND OVERVIEW

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Thank you for choosing the DELTA Canopies 33'x13' Heavy Duty Hothouse Greenhouse. This product is designed to provide a protected environment for your plants, extending your growing season and shielding them from adverse weather conditions. Featuring a robust galvanized steel frame, a water-resistant cover, and multiple screened vents, this greenhouse offers durability and functionality for residential backyard gardening.

Please read this manual thoroughly before assembly and use to ensure proper setup, safe operation, and optimal performance of your greenhouse.

## 2. SAFETY INFORMATION

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- Always assemble the greenhouse on a level surface.
- Ensure all connections are securely fastened before use.
- Do not use the greenhouse in extreme weather conditions such as high winds, heavy snow, or severe thunderstorms. Disassemble or secure the structure appropriately during such events.
- Keep children and pets away from the assembly area.
- Regularly inspect the frame and cover for any signs of wear or damage. Replace damaged parts immediately.
- Do not hang heavy objects from the frame.
- Ensure adequate ventilation to prevent overheating, especially during sunny periods.

## 3. PACKAGE CONTENTS

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Please verify that all components are present before beginning assembly. While a detailed parts list is typically included with your product, the main components generally include:

- Galvanized Steel Frame Pipes and Connectors
- Water Resistant Polyethylene (PE) Cover
- Ground Bar for Stability
- Zippered End Panels (2)
- Screened Vents (20)
- Assembly Hardware (bolts, nuts, ropes, stakes, etc.)

If any parts are missing or damaged, please contact customer support immediately.

## 4. SETUP INSTRUCTIONS

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Assembly of your DELTA Canopies Greenhouse is designed to be straightforward. It is recommended that at least two people assist with the setup.

### 4.1 Site Preparation

- Choose a level, well-drained area for your greenhouse.
- Clear the area of any debris, rocks, or sharp objects that could damage the cover.
- Consider sun exposure and wind patterns when selecting the location.

### 4.2 Frame Assembly

1. Unpack all frame components and lay them out.
2. Connect the galvanized steel pipes according to the included diagram (refer to the specific diagram provided in your product packaging). Ensure all connections are tight and secure.
3. Assemble the arched sections first, then connect them with the horizontal support bars.
4. Install the ground bar for added stability.



Figure 1: Exterior view of the assembled greenhouse, showcasing its tunnel design and overall structure.

### 4.3 Cover Installation

1. Carefully unfold the water-resistant polyethylene cover.
2. Drape the cover over the assembled frame, ensuring it is centered and evenly distributed.
3. Secure the cover to the frame using the provided fasteners, straps, or ties. Ensure the cover is taut to prevent flapping in the wind and water pooling.
4. Attach the zippered end panels, ensuring the zippers are functional and can be fully closed.



Figure 2: Interior view of the greenhouse, showing the galvanized steel frame structure and the translucent cover.

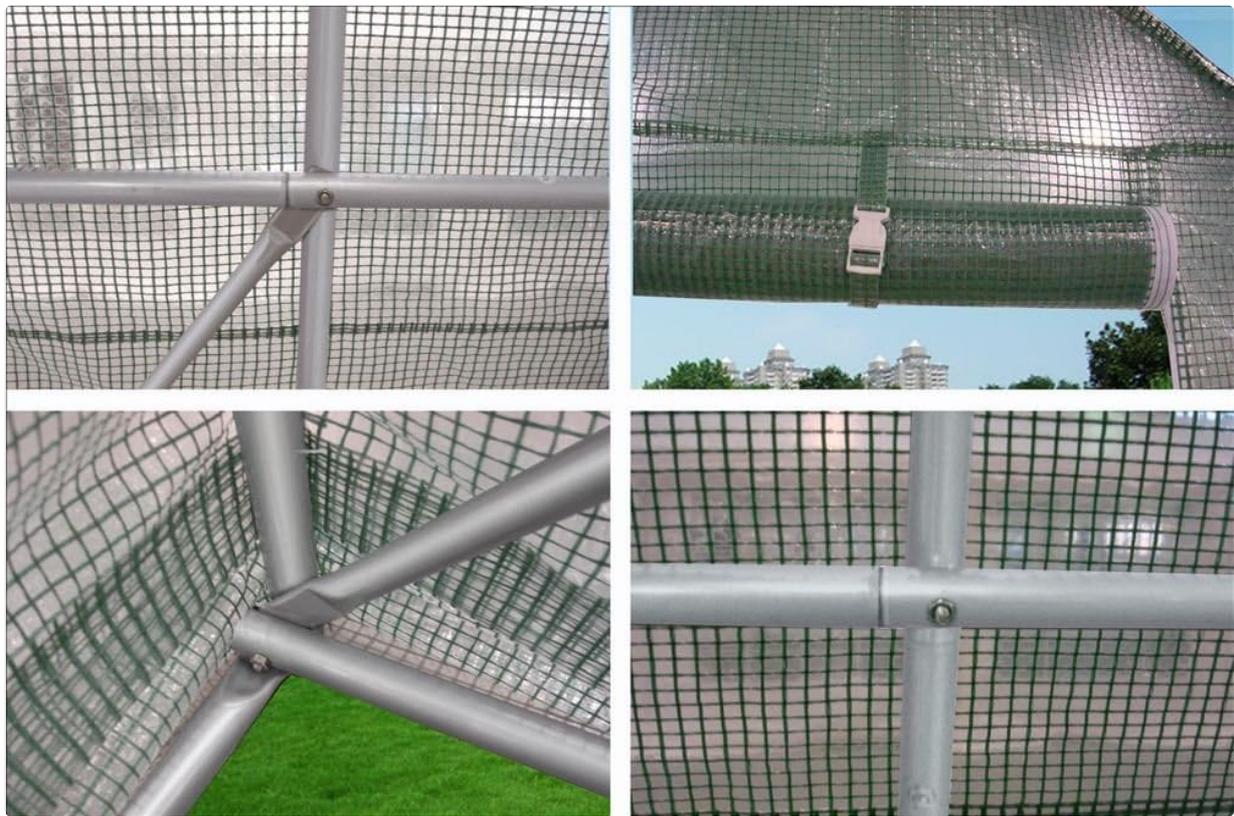


Figure 3: Detailed view of the robust galvanized steel frame connections and how the cover is secured, highlighting the structural integrity.

## 4.4 Anchoring

Proper anchoring is crucial for the stability of your greenhouse. Use the provided ground stakes and ropes to secure the structure firmly to the ground. In areas prone to high winds, consider additional anchoring methods such as concrete blocks or specialized ground anchors (not included).

## 5. OPERATING INSTRUCTIONS

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### 5.1 Ventilation

Your greenhouse is equipped with 20 screened vents along the sides. These vents are essential for regulating temperature and humidity, and for providing air circulation to your plants. Open the vents during warm periods to prevent overheating and reduce humidity. Close them during cooler periods or when rain is expected.

### 5.2 Access

The greenhouse features zippered doors on each end panel. Use these doors for easy access to your plants and for moving equipment in and out. Ensure zippers are fully closed when not in use to maintain the internal environment.

## 6. MAINTENANCE

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- **Cleaning:** Periodically clean the cover with mild soap and water to remove dirt, dust, and algae buildup. Avoid abrasive cleaners or brushes that could damage the material.
- **Frame Inspection:** Regularly check all frame connections for tightness. Tighten any loose bolts or connectors. Inspect the galvanized steel for any signs of rust or corrosion, and address them promptly.

- **Cover Inspection:** Examine the polyethylene cover for tears, punctures, or excessive wear. Small tears can often be repaired with specialized greenhouse repair tape. Replace severely damaged covers.
- **Vent and Zipper Maintenance:** Ensure vents open and close smoothly. Keep zippers clean and lubricated if necessary to prevent sticking.
- **Winter Preparation:** In areas with heavy snowfall, it is recommended to remove the cover or regularly clear snow from the roof to prevent structural collapse due to excessive weight.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Greenhouse unstable/wobbles	Loose frame connections; insufficient anchoring; uneven ground	Tighten all bolts; ensure ground stakes are fully inserted; add additional anchoring; relocate to a level surface.
Water pooling on cover	Cover not taut enough; improper installation	Re-tension the cover to ensure it is stretched tightly over the frame.
High internal temperature	Insufficient ventilation	Open all screened vents and zippered doors to increase airflow. Consider adding shade cloth if temperatures remain too high.
Zippers sticking or difficult to operate	Dirt/debris in zipper teeth; lack of lubrication	Clean zipper teeth with a brush; apply a silicone-based lubricant.

## 8. SPECIFICATIONS

- **Brand:** DELTA
- **Model:** 33'x13' Heavy Duty Hothouse Greenhouse
- **Product Dimensions:** 396"L x 120"W x 90"H (approximately 33'L x 10"W x 7.5'H)
- **Frame Material:** Galvanized Steel
- **Cover Material:** Polyethylene (PE)
- **Number of Doors:** 2 (Zippered end panels)
- **Number of Vents:** 20 (Screened, along the sides)
- **Color:** Green

## 9. WARRANTY INFORMATION

Specific warranty details for this product are not provided in the general product information. However, a 30-day return policy is typically available for refund or replacement. For detailed warranty information, including coverage and duration, please refer to the documentation included with your purchase or contact the seller directly.

## 10. SUPPORT CONTACT

For any questions regarding assembly, missing parts, or product support, please contact the seller, WPIC-Store, through the platform where you made your purchase. They will be able to provide the most accurate and timely assistance.

You can typically find seller contact information on your order details page.