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› MELLCOM 40'x12'x7.5' Portable Greenhouse Instruction Manual

MELLCOM 40x12x7.5 Greenhouse

MELLCOM 40'x12'x7.5' Portable Greenhouse Instruction Manual

Model: 40x12x7.5 Greenhouse

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your MELLCOM 40'x12'x7.5' Portable Greenhouse. Please read all instructions carefully before beginning assembly and retain this manual for future reference. This greenhouse is designed to provide a protected environment for plant growth, featuring a durable PE cover, roll-up zippered doors, and multiple screen windows for ventilation.

2. SAFETY INFORMATION

- Always assemble the greenhouse on a level, stable surface.
- Ensure all connections are secure and tightened according to instructions.
- **Wind Conditions:** Secure your greenhouse with extra ropes and ground anchors when wind speeds exceed 24 miles/hour. Install the greenhouse away from direct wind exposure.
- **Snow Conditions:** Keep the greenhouse clear of snow. Snow coverage should not exceed 2 inches to prevent structural damage.
- Do not use the greenhouse during severe weather conditions such as heavy storms, strong winds, or blizzards.
- Keep children and pets away from the assembly area.
- Wear appropriate safety gear, such as gloves, during assembly.

3. SETUP AND ASSEMBLY

Assembly typically requires two or more adults. Follow the steps below for proper installation.

3.1. Unpacking and Component Identification

Carefully unpack all components and verify against the parts list (not provided in this manual, refer to your product

packaging). Ensure all frame pieces, connectors, the PE cover, doors, windows, and anchoring hardware are present.

3.2. Frame Assembly

Begin by assembling the base frame on your chosen level site. Connect the galvanized steel rods using the provided optimized screws and solid connectors. Ensure all connections are firm to establish a stable foundation.

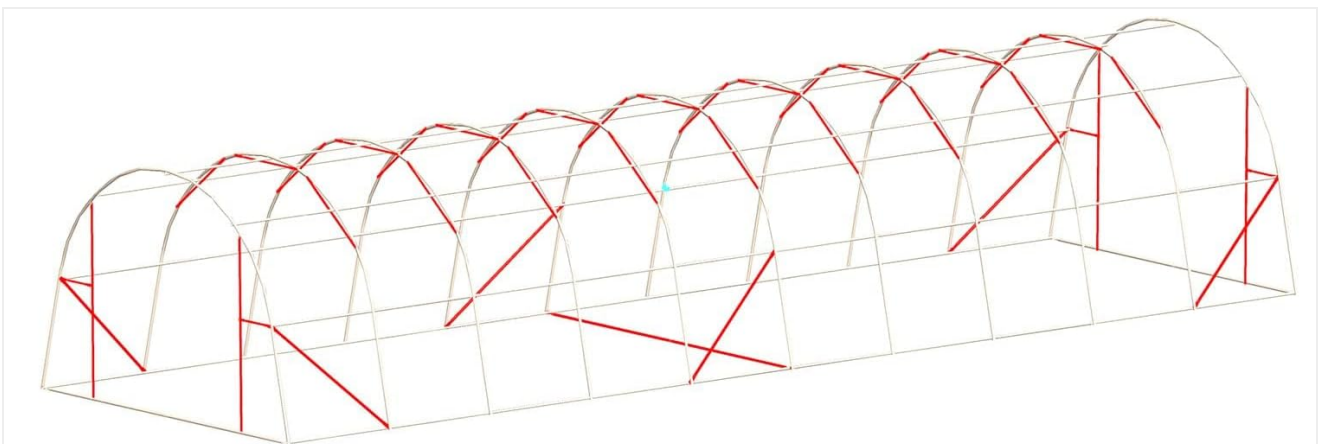


Figure 3.2.1: Frame components showing optimized screws, heavy-duty galvanized steel rods, strong connectors, and reinforcement poles.

Construct the arched frame sections, paying close attention to the orientation of each piece. The frame includes diagonal rods at the four corners and additional cross bars for reinforcement. These elements are crucial for the greenhouse's structural integrity and wind resistance.



Figure 3.2.2: Interior frame structure highlighting cross bars and short bars for reinforcement.



STRENGTHEN THE FRAME STRUCTURE

The red marked part has more reinforcement support and increased wind resistance.



Figure 3.2.3: Frame structure diagram showing reinforced areas for enhanced stability and wind resistance.

3.3. Cover Installation

Once the frame is fully assembled and stable, carefully drape the PE material plastic cover over the structure. Ensure the cover is centered and evenly distributed. The cover is designed to be tough, durable, and 100%

waterproof, transmitting 85% of sunlight while blocking harmful UV rays.



Figure 3.3.1: Key features for cover installation and securing.

Secure the cover to the frame using the provided buckles and fixed drawstrings with ground nails. The overlong PE cover should be used for soil coverage to enhance sealing and wind resistance. Ensure the zippered doors are properly aligned and functional.

3.4. Anchoring

The ground frame adopts U-shaped piles to effectively grasp the ground and reduce wind resistance. Utilize all provided anchoring hardware to firmly secure the greenhouse to the ground. Proper anchoring is critical for stability, especially in windy conditions.



Figure 3.4.1: Assembled greenhouse with doors closed.



Figure 3.4.2: Assembled greenhouse with a door open.

4. OPERATING INSTRUCTIONS

4.1. Doors

The greenhouse features two roll-up zippered doors. To open, unzip the door completely and roll it upwards, securing it with the ties provided. To close, unroll the door and zip it securely. This allows for easy access and controlled ventilation.

4.2. Windows

There are 20 screen windows with Velcro closures. These windows are designed for exhaust and cross-ventilation. Open them to allow airflow and regulate temperature and humidity inside the greenhouse. Close them to retain warmth and prevent insect entry.

5. MAINTENANCE

- **Cleaning the Cover:** Periodically clean the PE cover with mild soap and water to remove dirt and debris, ensuring maximum light transmission. Avoid abrasive cleaners.
- **Frame Inspection:** Regularly inspect the metal frame for any signs of rust, damage, or loose connections. Tighten screws and reinforce as needed.
- **Anchoring Check:** Verify that all ground anchors and ropes are securely in place, especially after strong winds or heavy rain.
- **Zipper Care:** Keep zippers clean and lubricated if necessary to ensure smooth operation.
- **Winter Preparation:** In areas with heavy snowfall, consider removing the cover or regularly clearing snow to prevent collapse.

6. TROUBLESHOOTING

6.1. Greenhouse Instability in Wind

If the greenhouse shows signs of instability in windy conditions:

- Ensure all frame connections are fully tightened.
- Verify that all U-shaped piles and ground nails are firmly embedded in the soil.
- Add additional external ropes and heavy-duty ground anchors for extra security.
- Consider relocating the greenhouse to a more sheltered area if possible.

6.2. Cover Tearing or Damage

If the PE cover tears:

- Small tears can often be repaired with specialized greenhouse repair tape.
- For larger damage, consider replacing the cover to maintain optimal protection and insulation.
- Ensure the cover is not excessively stretched during installation, which can lead to premature tearing.

7. SPECIFICATIONS

40'× 12'× 7.5' SIZE DETAILS



Figure 7.1: Greenhouse dimensions.

Feature	Detail
Brand	MELLCOM
Product Dimensions (L x W x H)	40' x 12' x 7.5' (480"L x 144"W x 90"H)
Frame Material	Alloy Steel (Powder-coated metal frame)
Cover Material	PE Material Plastic Cover
Number of Doors	2
Door Style	Roll-up Zippered Doors
Number of Vents	20 (Screen Windows with Velcro)
Closure Type	Zipper
Color	Green

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact MELLCOM customer service directly. Keep your purchase receipt for warranty claims.

