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MARS HYDRO Mars-100X100X180-NEW FBA

MARS HYDRO 3.3x3.3 Advanced Grow Tent User Manual

Model: Mars-100X100X180-NEW FBA (39"x39"x71")

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1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your MARS HYDRO 3.3x3.3 Advanced Grow Tent. Please read this manual thoroughly before setting up and using the product to ensure proper function and longevity.

2. SAFETY INFORMATION

- Ensure all components are present and undamaged before assembly.
- Do not pull the tent fabric violently during installation to prevent tearing.
- Keep the tent away from open flames and excessive heat sources.
- Ensure proper ventilation when using grow lights and other equipment inside the tent.
- Do not overload the hanging bars; refer to specifications for weight limits.
- Keep out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all the following components are included in your package:



Figure 3.1: Package Contents Diagram

- Tent Cloth x1
- Floor Tray x1
- User Manual x1
- Detachable Tool Bag x1
- Corner Adapters x8

- Poles E x8, F x4, G x4, H x1, J x1
- Controller Lanyard x1

4. ASSEMBLY INSTRUCTIONS

Follow these steps for a convenient and hassle-free installation:

Video 4.1: Experience Convenient and Hassle-Free Grow Tent Installation. This video demonstrates the step-by-step assembly process of the MARS HYDRO grow tent, from unboxing to final setup.

1. **Step 1: Verify Components and Assemble the Metal Frame.** Lay out all the metal poles and corner adapters. Connect the poles according to the alphabetical labels provided in the package contents diagram (Figure 3.1) to form the base and top frames, then connect the vertical poles. Ensure all connections are secure.
2. **Step 2: Position the Tent Frame Horizontally and Drape with Tent Fabric.** Once the metal frame is assembled, lay it horizontally. Carefully drape the tent fabric over the frame, ensuring the zippers are aligned correctly. Do not pull the tent cloth violently.
3. **Step 3: Stand the Tent Upright.** With the fabric draped, carefully lift the tent frame to an upright position.
4. **Step 4: Install Hanging Bars and Position Floor Tray.** Insert the hanging bars into the designated slots at the top of the frame. Place the removable waterproof floor tray inside the tent, ensuring it lies flat at the bottom.



Figure 4.2: Grow Tent Assembly Steps

5. KEY FEATURES

5.1. Premium Material Quality



Figure 5.1: Material Layers of the Grow Tent

The MARS HYDRO grow tent is constructed from a 3-layer thick material for optimal performance:

- **1680D Oxford Nylon Fabric:** The outer layer is a durable, tear-proof 1680D Oxford fabric, ensuring longevity and light-blocking capabilities.
- **Waterproof PE Material:** An intermediate waterproof layer protects against spills and moisture.
- **High Reflective Mylar:** The interior features a diamond mylar lining, designed for maximum light reflection to enhance plant growth.

5.2. Enhanced Reflectivity

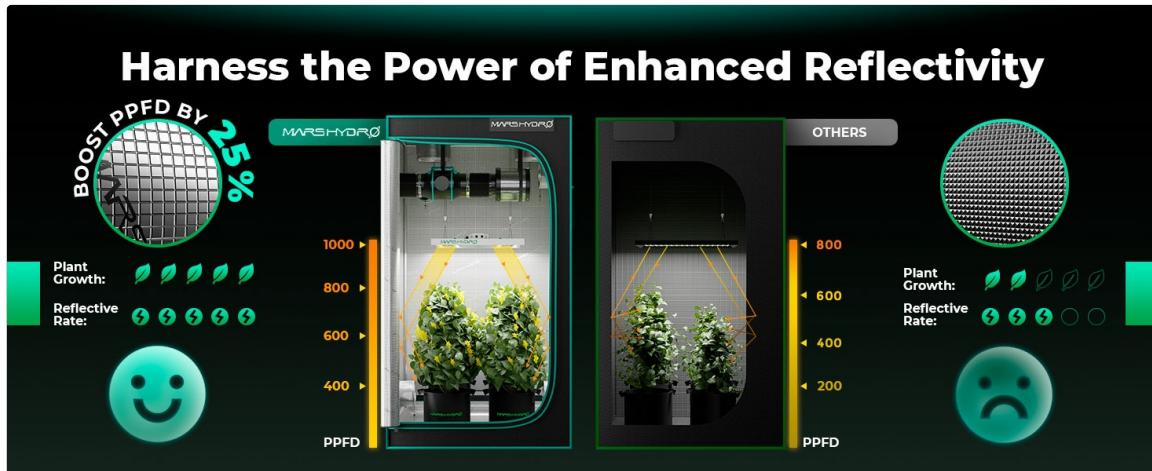


Figure 5.2: Reflectivity Comparison

The highly reflective diamond mylar interior amplifies the output of your grow light, ensuring plants receive maximum light exposure for efficient growth.

5.3. Superior Light Locking



Figure 5.3: Light Leakage Prevention

An exclusive shade cloth is integrated into the stitching between the zipper and canvas, preventing any pinhole light leaks. The dual zippers are heavy-duty and smooth, designed to prevent snagging and ensure a longer lifespan while maintaining a lightproof seal.

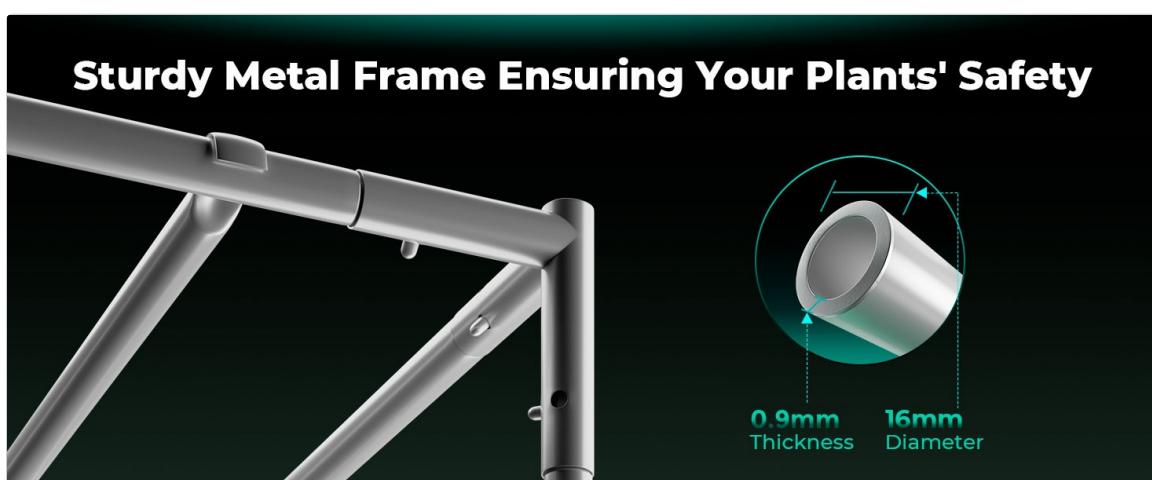


Figure 5.4: Smooth Heavy-Duty Zipper

5.4. Sturdy Metal Structure



Figure 5.5: Powerful Metal Frame

The tent features a robust metal frame with stable poles, corner adapters, and top bars. These corrosion-resistant steel poles (0.8mm thickness, 16mm diameter) are designed to withstand significant weight, supporting up to 120 lbs, ensuring stability for your growing equipment.

5.5. Humanized Design Elements



Figure 5.6: Detailed Design Features

- **Viewing Window:** A double-layered viewing window allows observation of plants without opening the tent, maintaining environmental stability.
- **Waterproof Floor Tray:** A detachable, waterproof floor tray collects spills and fallen leaves, simplifying cleanup.
- **Adjustable Ventilation Ports:** Multiple ports allow for flexible setup of inline fans and ducting.
- **Tool Bag & Lanyard:** Convenient storage for tools and a lanyard for controllers.
- **Power Strip Hook:** Dedicated hook for organizing power strips.

6. USAGE & CAPACITY

6.1. Dimensions and Recommended Pairings

Utilize Your Space More Effectively



Figure 6.1: Grow Tent Dimensions and Recommended Equipment

The MARS HYDRO 3.3x3.3 grow tent measures 39"L x 39"W x 71"H (100x100x180 cm). It features 6" ventilation ports (x4) and 8" ventilation ports (x2), along with 3" power cord ports (x2) and mesh vents (x3). Recommended pairings include a 4"/6" inline fan and TS1000/FC3000/FC-E3000 grow lights.

6.2. Effective Space Utilization



Figure 6.2: Plant Capacity for 39" Grow Tent

This grow tent is designed to maximize your growing space. For a 39"x39" footprint, you can accommodate:

- 2 Extra Large Sized Plants (18in Pots - 26.5in Wide Plants)
- 4 Large Sized Plants (12in Pots - 22in Wide Plants)
- 9 Medium Sized Plants (10in Pots - 19in Wide Plants)
- 16 Small Sized Plants (6.5in Pots - 14in Wide Plants)

6.3. Versatile Placement



Figure 6.3: Grow Tent Placement Options

The compact and efficient design allows for placement in various indoor environments, including living rooms, bedrooms, basements, balconies, and cabinets, meeting diverse usage needs.

7. SPECIFICATIONS

Feature	Detail
Brand	MARS HYDRO
Model Number	Mars-100X100X180-NEW FBA
Product Dimensions	39"L x 39"W x 71"H (100x100x180 cm)
Color	Black

Frame Material	Metal, Steel (0.8mm thickness, 16mm diameter)
Inner Material	Mylar (Diamond Reflective)
Outer Material	1680D Oxford Nylon Fabric
Item Weight	21.7 pounds
Ventilation Ports	4 x 6", 2 x 8"
Power Cord Ports	2 x 3"
Observation Window	Yes, with double layers of cloth
Floor Tray	Detachable, Waterproof

8. MAINTENANCE

- **Cleaning:** Wipe down the interior mylar with a damp cloth as needed. The exterior can be cleaned with a mild soap solution and a soft brush. Ensure the tent is completely dry before zipping it up for extended periods.
- **Floor Tray:** Regularly remove and clean the waterproof floor tray to prevent accumulation of debris and moisture.
- **Zippers:** Keep zippers clean and free of debris to ensure smooth operation. Avoid forcing stuck zippers.
- **Frame Inspection:** Periodically check all frame connections and hanging bars for stability and tightness.

9. TROUBLESHOOTING

- **Light Leaks:** Ensure all zippers are fully closed and the zipper flaps are properly positioned. Check ventilation ports and power cord ports to ensure they are securely tightened around any cables or ducting.
- **Difficulty Zipping:** Ensure the tent fabric is not caught in the zipper. Apply a small amount of zipper lubricant if necessary.
- **Unstable Frame:** Recheck all pole connections and corner adapters to ensure they are fully engaged. The frame should be taut once the fabric is properly fitted.
- **Excessive Humidity/Temperature:** Ensure your ventilation system (fans, filters) is adequately sized and operating correctly for your grow space and plant needs.

10. WARRANTY & SUPPORT

MARS HYDRO products come with a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the warranty card included with your product or visit the official MARS HYDRO website. If you encounter any issues or require technical assistance, please contact MARS HYDRO customer support. Our service team is available to provide technical support and professional assistance.