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> VIVOSUN P448 PRO Grow Tent User Manual

VIVOSUN 304113-P448

VIVOSUN P448 PRO Grow Tent User Manual

Model: 304113-P448

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your VIVOSUN P448 PRO Grow Tent. Designed for indoor plant cultivation, this grow tent offers a controlled environment to optimize plant growth. Please read this manual thoroughly before setting up and operating the tent to ensure proper use and longevity.



Image: The VIVOSUN P448 PRO Grow Tent, showcasing its spacious interior and robust frame, suitable for various indoor plants.

2. PRODUCT FEATURES

- **Upgraded Lightproof Fabric:** Constructed from durable 2000D Oxford canvas, lined with plant-friendly PE,

and 100% reflective Mylar. This three-layer thick fabric ensures zero light leaks, enhancing the efficiency of your grow setup. The zipper section includes a black inner lining for superior light prevention.

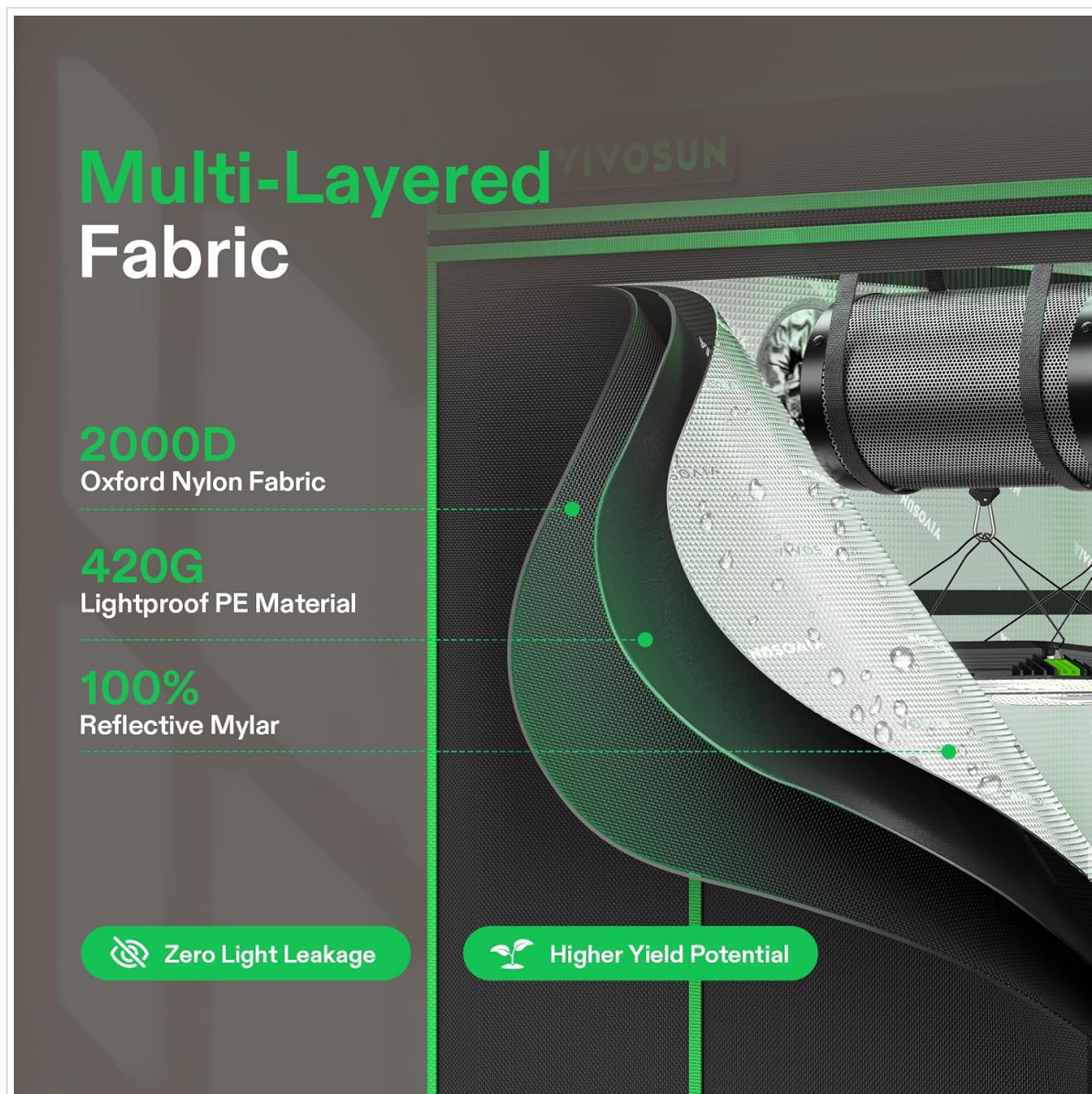


Image: A cross-section diagram illustrating the multi-layered fabric, including 2000D Oxford Nylon, 420G Lightproof PE, and 100% Reflective Mylar, designed for zero light leakage and higher yield potential.

- **Ultimate Thick 1" Poles:** Features robust $\phi 22\text{mm}$ steel poles, providing a secure and stable environment. The tent supports a maximum load capacity of 220 lbs, ensuring reliability for hanging lights and other equipment.

Ultra Thick 1" Poles

Provide a secure and stable environment for optimal plant growth.



Image: Detail of the ultra-thick 1-inch (22mm) steel poles, demonstrating their strength and ability to support significant weight, crucial for a stable grow environment.

- **Easy Observation:** An enlarged viewing window allows for convenient observation of your plants without needing to open the tent. The robust SBS zipper door ensures secure and smooth access. The door is removable and can be affixed to the side using a hook and loop fastener for easy entry.

Enlarged Observation Window

Allows for easier observation without the need to enter.

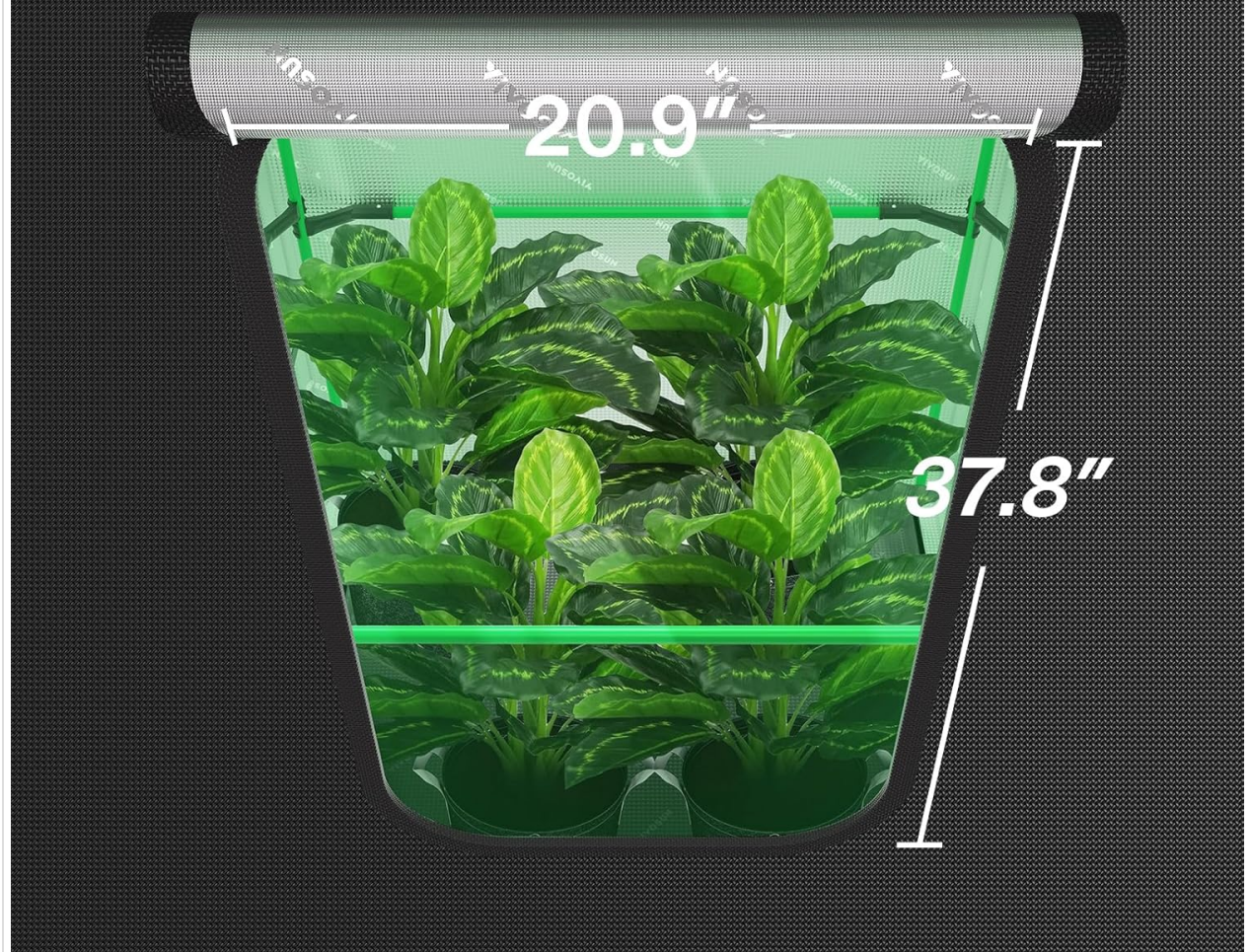
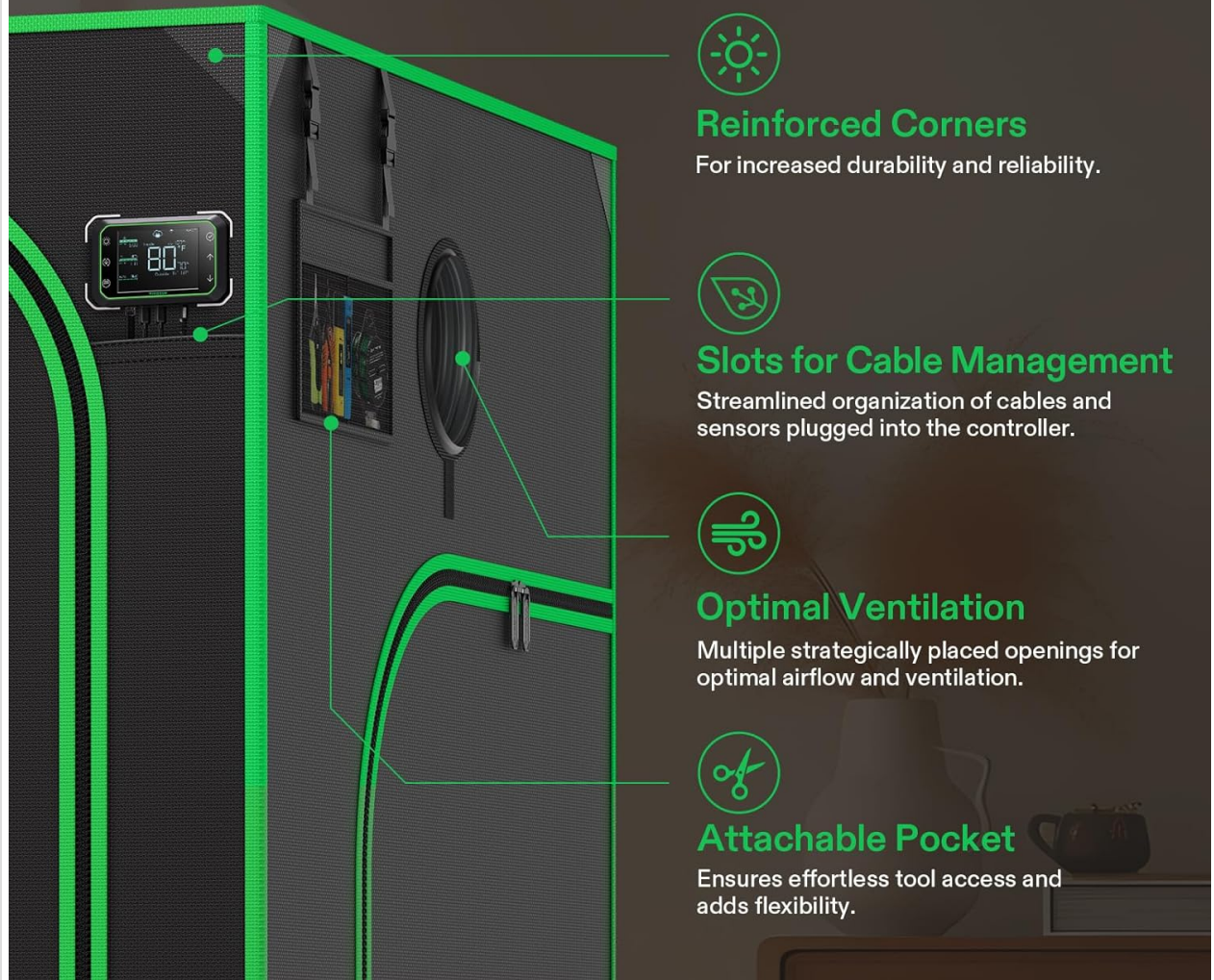


Image: The enlarged observation window, measuring 20.9 inches by 37.8 inches, provides a clear view of the plants inside without disturbing the internal environment.

- **Thoughtfully Designed:** Includes cable management slots for smart controllers, strategically placed openings for optimal ventilation, and an attachable outside pocket for effortless tool access and added flexibility.

Attention to Every Detail



Reinforced Corners

For increased durability and reliability.



Slots for Cable Management

Streamlined organization of cables and sensors plugged into the controller.



Optimal Ventilation

Multiple strategically placed openings for optimal airflow and ventilation.



Attachable Pocket

Ensures effortless tool access and adds flexibility.

Image: An illustration detailing the thoughtful design elements of the tent, including reinforced corners, cable management slots, optimal ventilation ports, and a convenient attachable pocket.

- **High CFM Kit for Extra Support:** An included accessory designed for added strength and stability, minimizing tent flexing caused by high-powered fans and helping secure trellis netting.

High CFM Kit for Extra Support

This kit provides robust support, minimizing tent flexing caused by high-powered fans.

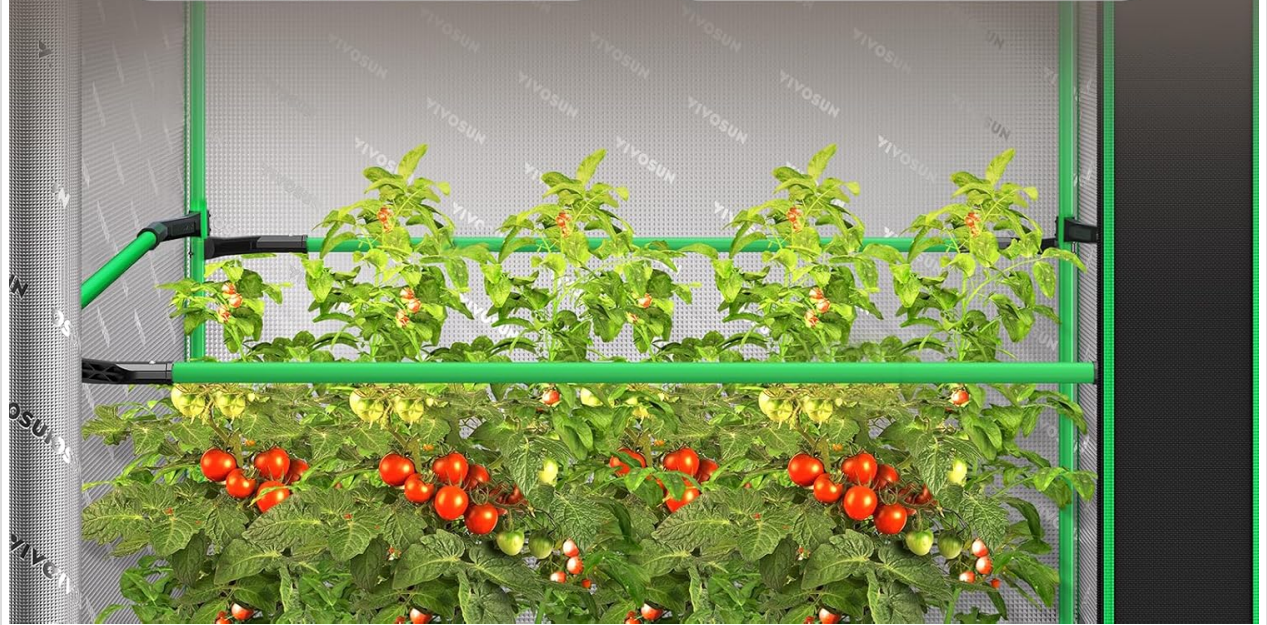


Image: Components of the High CFM Kit, showing how they provide robust support to minimize tent flexing from high-powered fans and aid in securing trellis netting.

- **Upgraded SBS Zippers:** Heavy-duty SBS zippers ensure a strong grip and smooth opening and closing, contributing to the tent's lightproof integrity.

Upgraded **SBS** Zippers

Heavy-duty SBS zipper ensures a strong grip and smooth opening & closing.

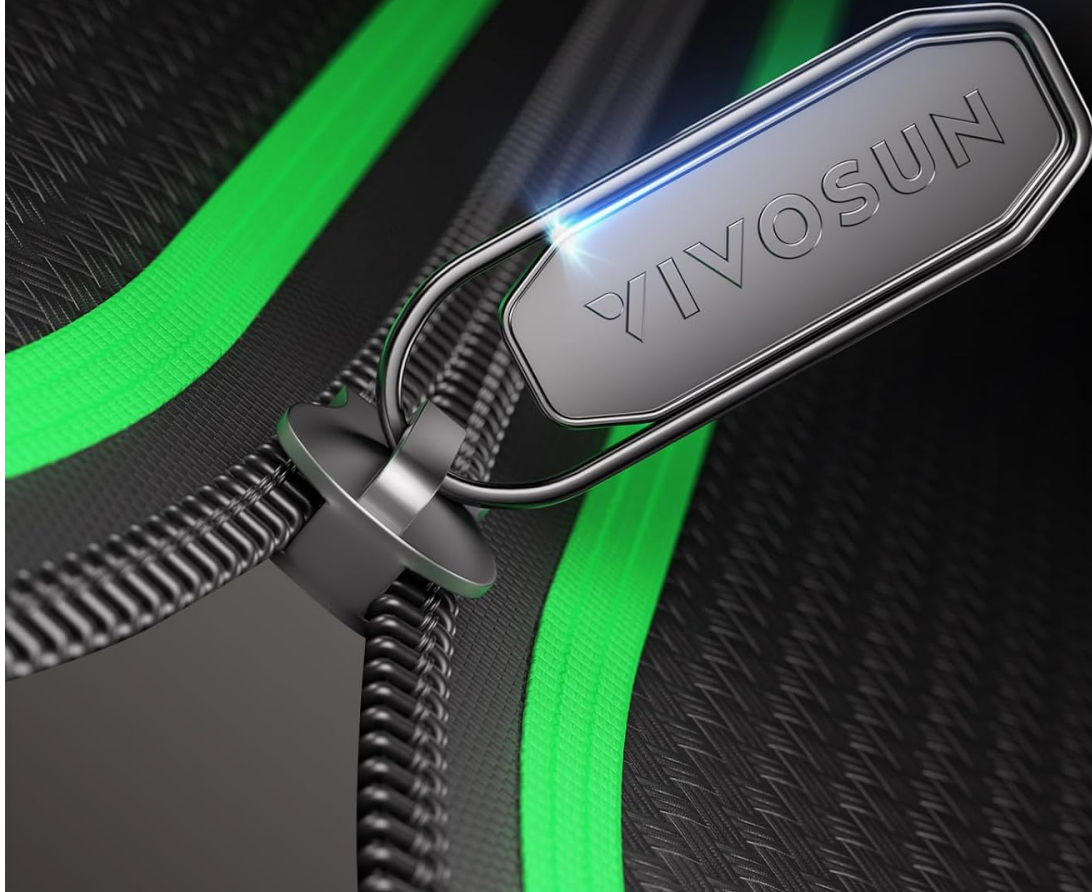


Image: A detailed view of the upgraded heavy-duty SBS zipper, highlighting its smooth operation and strong grip for reliable tent closure.

3. SETUP INSTRUCTIONS

Before assembly, ensure you have all components and sufficient space. It is recommended to assemble the tent with at least two people.

3.1. Package Contents

- Tent Fabric (Outer Shell with Mylar Lining)
- Steel Poles (\varnothing 22mm for frame)
- Corner Connectors
- Hanging Bars (Quantity varies by model, up to 8 for P448)
- High CFM Kit Components
- Floor Tray (Removable)

- Instruction Manual

3.2. Assembly Steps

1. **Prepare the Area:** Clear a flat, clean space large enough for the tent's dimensions (48"L x 48"W x 80"H).
2. **Assemble the Base Frame:** Connect the shortest steel poles to the corner connectors to form the base square. Ensure all connections are secure.
3. **Install Vertical Poles:** Insert the vertical steel poles into the corner connectors of the base frame.
4. **Assemble the Top Frame:** Connect the remaining shortest steel poles to the top of the vertical poles using corner connectors, forming the top square.
5. **Drape the Tent Fabric:** Carefully pull the tent fabric over the assembled frame. Ensure the zippers are aligned correctly with the frame opening.
6. **Secure the Fabric:** Zip up the tent completely. Adjust the fabric to fit snugly around the frame.
7. **Install Hanging Bars:** Attach the hanging bars to the designated points on the top frame. These bars are for supporting grow lights, fans, and other equipment.
8. **Install High CFM Kit:** Attach the High CFM Kit components to the vertical poles as instructed in the kit's specific guide. This will help maintain tent shape under negative pressure.
9. **Insert Floor Tray:** Place the removable waterproof floor tray inside the tent.
10. **Final Check:** Inspect all connections for stability and ensure the fabric is taut and free of wrinkles to prevent light leaks.

4. OPERATING INSTRUCTIONS

The VIVOSUN P448 PRO Grow Tent provides an optimized environment for plant growth. Proper operation involves managing light, air circulation, and humidity.

4.1. Light Management

- Hang your grow lights from the provided hanging bars. Adjust the height of the lights according to your plant's growth stage and light requirements.
- Utilize the lightproof fabric and SBS zippers to ensure no external light enters the tent during dark periods, crucial for photoperiod-sensitive plants.

4.2. Air Circulation and Ventilation

- Connect an exhaust fan and carbon filter (sold separately) to the tent's ventilation ports to remove stale air and odors.
- Use an intake fan (optional) or open passive intake vents to draw fresh air into the tent.
- Ensure proper airflow to prevent heat buildup and maintain optimal CO₂ levels for plant photosynthesis.
- The High CFM Kit helps maintain the tent's structural integrity when exhaust fans create negative pressure.

4.3. Humidity and Temperature Control

- Monitor internal temperature and humidity using a hygrometer/thermometer.

- Adjust ventilation and use humidifiers/dehumidifiers as needed to maintain ideal environmental conditions for your specific plants.

4.4. Observation

- Use the enlarged observation window to check on your plants without opening the main door, minimizing disruption to the internal environment.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your grow tent.

- **Cleaning:** Wipe down the interior Mylar lining with a damp cloth and mild detergent as needed to maintain reflectivity. Clean the exterior fabric with a soft brush or damp cloth.
- **Zipper Care:** Periodically lubricate the SBS zippers with a zipper lubricant to ensure smooth operation and prevent sticking. Keep the zipper path clear of debris.
- **Frame Inspection:** Regularly check all steel pole connections and corner connectors for tightness and stability. Tighten if necessary.
- **Fabric Inspection:** Inspect the tent fabric for any tears, punctures, or signs of wear that could compromise lightproofing. Repair small damages with appropriate tent repair kits.
- **Floor Tray:** Remove and clean the waterproof floor tray regularly to prevent water accumulation and maintain hygiene.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your grow tent.

Problem	Possible Cause	Solution
Light Leaks	Improper zipper closure, fabric tears, loose seams.	Ensure zippers are fully closed and the inner lining is flat. Inspect fabric for damage and repair if necessary. Check all seams.
Tent Walls Sucking In (Negative Pressure)	Exhaust fan is too powerful or intake is insufficient.	Ensure High CFM Kit is properly installed. Increase passive intake or use an intake fan. Adjust exhaust fan speed.
Unstable Frame	Loose pole connections, incorrect assembly.	Verify all poles are fully inserted into connectors. Re-check assembly steps. Ensure tent is on a level surface.
Zipper Sticking/Difficult to Operate	Lack of lubrication, debris in zipper teeth.	Clean zipper teeth and apply a silicone-based zipper lubricant. Avoid forcing the zipper.

7. SPECIFICATIONS

Attribute	Detail
Model	PRO P448
Product Dimensions	48"L x 48"W x 80"H
Square Footage	16 ft ²
Cubic Footage	106.7 ft ³
Frame Material	Alloy Steel (φ22mm poles)
Outer Material	2000D Oxford Fabric
Inner Material	100% Reflective Mylar / Polyethylene Terephthalate (PET)
Weight Capacity	220 lbs
Viewing Window	20.9" x 37.8"
High CFM Kit	Included
Item Weight	45.1 pounds
Manufacturer	VIVOSUN
Country of Origin	China

Specifications

Model: PRO P448

Size: 48" x 48" x 80"

Square Footage: 16 ft²

Cubic Footage: 106.7 ft³

Frame: 22mm Steel

Weight Capacity: 220 lbs

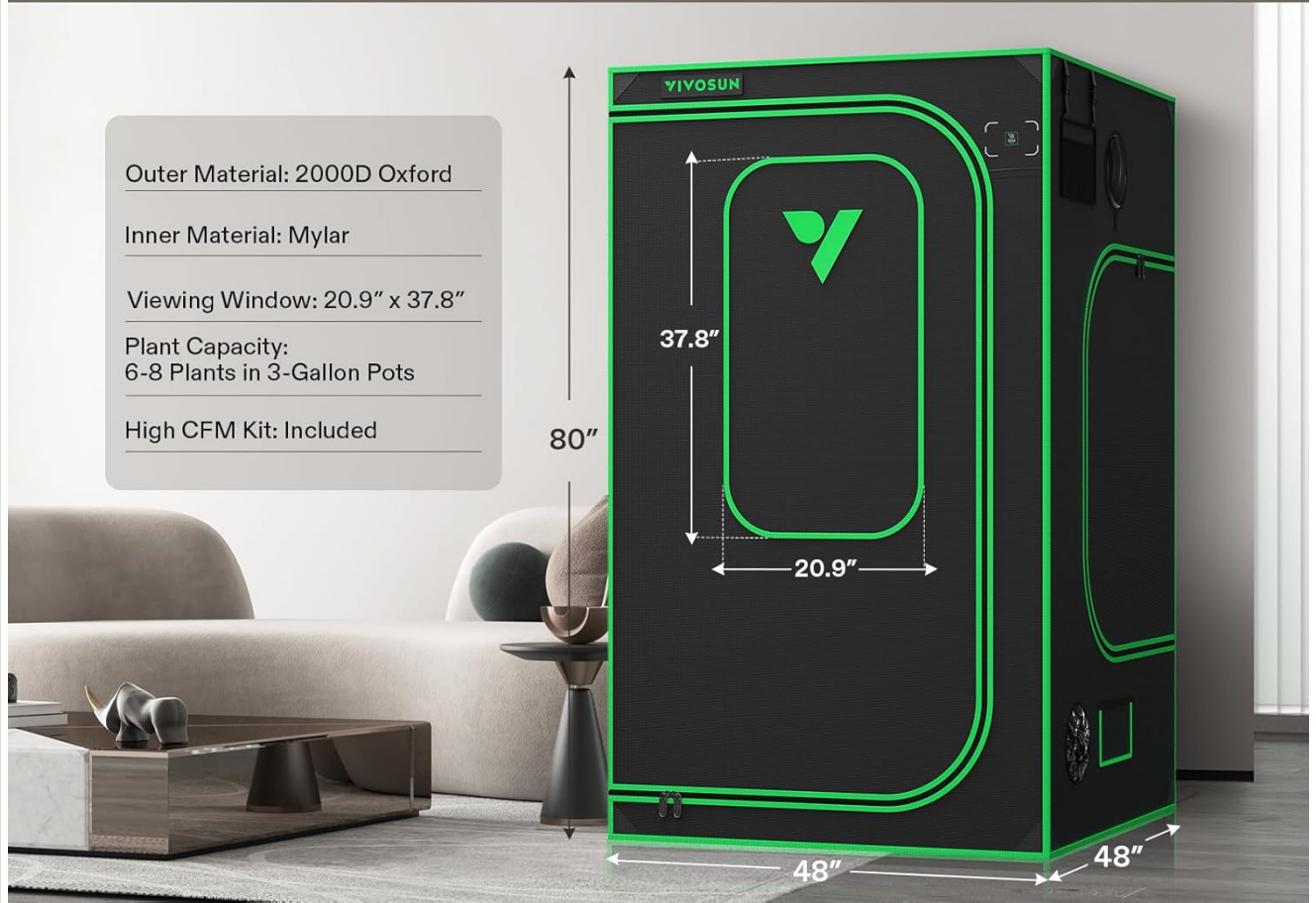


Image: A visual representation of the VIVOSUN P448 PRO Grow Tent's specifications, including dimensions, materials, and key features.

8. WARRANTY AND SUPPORT

VIVOSUN is committed to providing high-quality products and customer satisfaction. For any questions, concerns, or support needs regarding your VIVOSUN P448 PRO Grow Tent, please contact VIVOSUN customer service through the retailer's platform or the official VIVOSUN website. Please refer to your purchase documentation for specific warranty details and return policies.

For more information and product registration, visit the official VIVOSUN website: www.vivosun.com

