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MARS HYDRO 60x32x80 Grow Tent & 5L Humidifier

MARS HYDRO 5x2.6 Grow Tent & Plant Humidifier 5L Combo Kit User Manual

Model: 60"x32"x80" Grow Tent & 5L Humidifier

1. Introduction

This user manual provides comprehensive instructions for the assembly, operation, and maintenance of your MARS HYDRO 5x2.6 Grow Tent and 5L Plant Humidifier Combo Kit. This integrated system is designed to create an optimal controlled environment for indoor plant cultivation, maximizing plant yield in hydroponics or traditional indoor gardening setups.

The kit includes a robust grow tent that offers an enclosed space for precise control over temperature, humidity, and light, alongside a 5L plant humidifier for maintaining ideal humidity levels.



Figure 1.1: Overview of the MARS HYDRO 5x2.6 Grow Tent and 5L Plant Humidifier Combo Kit. This image displays the assembled grow tent with the humidifier placed in front, showcasing the complete system.

2. Product Features

- **Grow Tent:** Provides an enclosed space, allowing growers to better control key factors like temperature, humidity, and light, creating ideal growing conditions for plants.
- **Highly Reflective Mylar Interior:** Maximizes light reflection for even light distribution, promoting healthier plant growth.
- **Enhanced Anti-Light Leakage:** Features a unique light-blocking cloth between the zipper and canvas to prevent pinhole leaks, crucial for plants requiring strict light management.
- **Sturdy Metal Frame:** Constructed with corrosion-resistant metal poles (16mm diameter, 0.9mm thickness) for enhanced stability and durability.
- **Plant Humidifier:** 5L capacity humidifier with adjustable humidity levels (35%-95%) and 1-4 levels of fog volume.
- **Flexible Telescopic Hoses:** Ensures precise humidity distribution to specific areas within the grow space.

- **Integrated Sensor Probe:** Accurately monitors temperature and humidity levels inside the grow tent or greenhouse, providing real-time data.
- **Touch & Remote Control:** Intuitive interface for easy operation and user-friendly control.

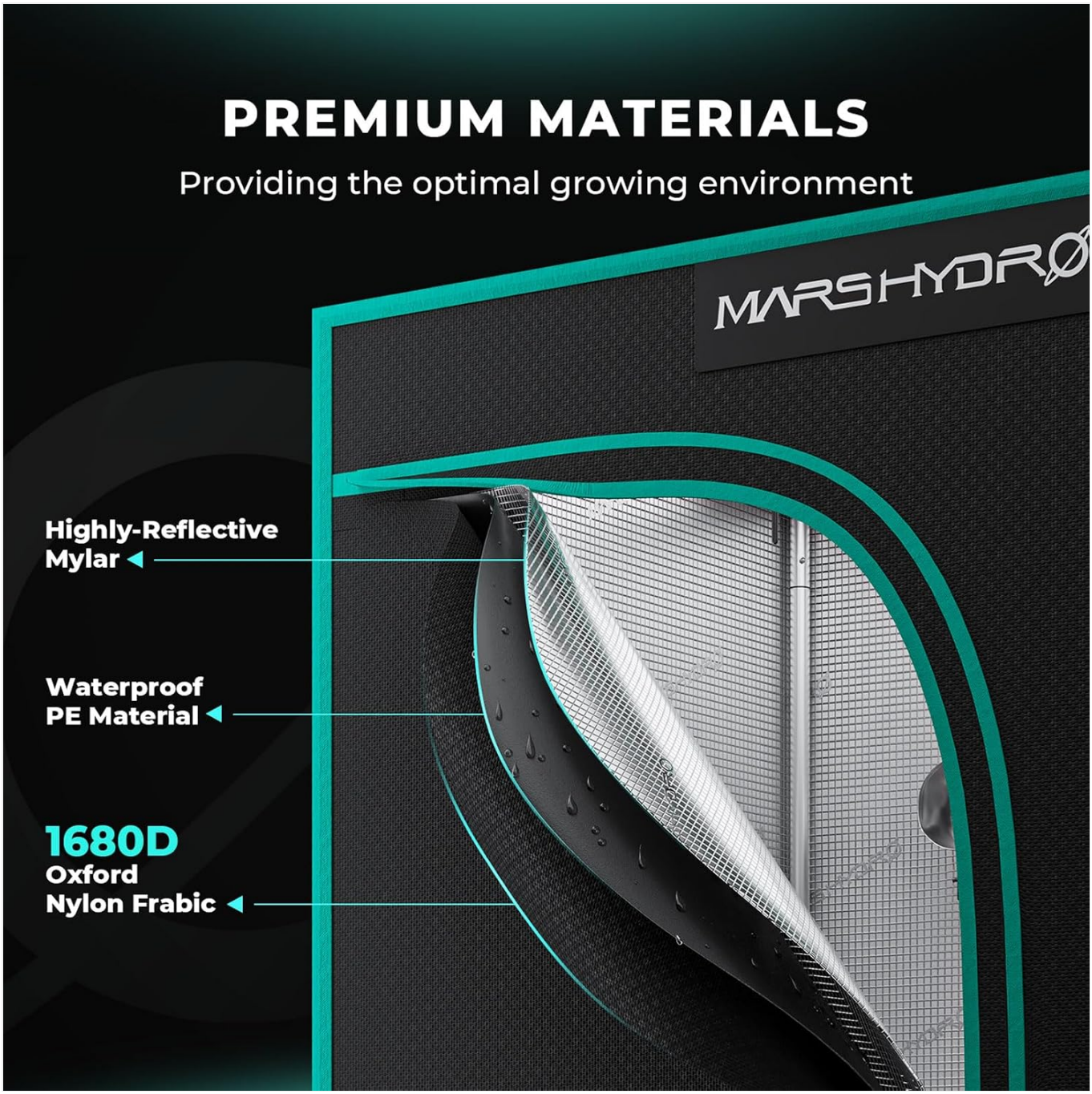


Figure 2.1: Illustration of the premium materials used in the grow tent construction, including highly-reflective Mylar, waterproof PE material, and 1680D Oxford Nylon Fabric, designed for an optimal growing environment.



Figure 2.2: Depiction of the high reflective inner Mylar, showing how it maximizes light efficiency to promote healthier plant growth compared to less reflective surfaces.



Figure 2.3: Comparison illustrating the enhanced anti-light leakage design with double-flap protection on the zipper, minimizing light escape from the grow tent.



Figure 2.4: Close-up view of the sturdy metal frame, highlighting the 16mm diameter and 0.9mm thickness of the corrosion-resistant poles, designed for enhanced stability.

3. Setup and Assembly

3.1 Grow Tent Assembly

Follow these steps to assemble your MARS HYDRO Grow Tent. It is recommended to have two people for easier assembly.

1. Unpack all components and verify against the parts list (refer to included diagram in packaging).
2. Assemble the base frame using the shortest poles and corner connectors. Ensure all connections are secure.
3. Attach the vertical poles to the base frame.
4. Place the roof frame on top of the vertical poles, securing it with corner connectors.
5. Carefully drape the tent fabric over the assembled frame. Ensure the zippers are aligned correctly.
6. Zip up the tent completely.
7. Install any crossbars or hanging bars as per the diagram for lights and other equipment.

8. Insert the removable floor tray at the bottom of the tent.

3.2 Humidifier Setup

Prepare your 5L Plant Humidifier for operation.

1. Remove the humidifier from its packaging.
2. Place the humidifier on a flat, stable surface, preferably outside the grow tent or on a waterproof mat inside.
3. Fill the water tank with clean, distilled, or demineralized water to prevent mineral buildup. Do not exceed the MAX fill line.
4. Securely place the water tank back onto the base unit.
5. Connect the telescopic hose to the humidifier's mist outlet. Position the hose inside the grow tent to direct mist as needed.
6. Plug the power cord into a grounded electrical outlet.
7. Insert the sensor probe into the grow tent, ensuring it is positioned to accurately measure the ambient temperature and humidity.



Figure 3.1: The 5L Indoor Humidifier connected with its telescopic hose, demonstrating how it can be positioned to effortlessly customize humidity within the

4. Operating Instructions

4.1 Grow Tent Operation

The grow tent provides a controlled environment. Monitor and adjust internal conditions using external equipment (lights, fans, humidifier) as needed for your plants.

- **Light Management:** Utilize the tent's reflective interior and light-blocking features to maintain a consistent light cycle. Ensure no light leaks are present, especially during dark periods.
- **Ventilation:** Use the tent's ventilation ports to install exhaust fans and carbon filters for air circulation and odor control. Proper airflow is crucial for plant health.
- **Temperature & Humidity:** Monitor these parameters using the humidifier's sensor or other dedicated instruments. Adjust external heating/cooling or use the humidifier to maintain optimal ranges.
- **Observation Window:** Use the observation window to check on your plants without disturbing the internal environment.

4.2 Humidifier Operation

The humidifier can be controlled via its touch panel or the included remote control.



Figure 4.1: The humidifier's intuitive interface, showing both the touch control panel and the remote control for easy, user-friendly operation.

1. **Power On/Off:** Press the power button on the control panel or remote to turn the unit on or off.
2. **Mist Volume Adjustment:** Use the "Mist" button to cycle through 4 levels of fog volume (Level 1: 155mL/h, Level 2: 340mL/h, Level 3: 470mL/h, Level 4: 580mL/h).
3. **Humidity Setting:** Press the "Humidity" button to set your desired humidity level between 35% and 95%. The unit will automatically maintain this level.
4. **Timer Function:** Use the "Timer" button to set an operating duration from 1 to 12 hours. The humidifier will automatically shut off after the set time.
5. **Sensor Probe:** The display will show real-time temperature and humidity readings from the sensor probe.

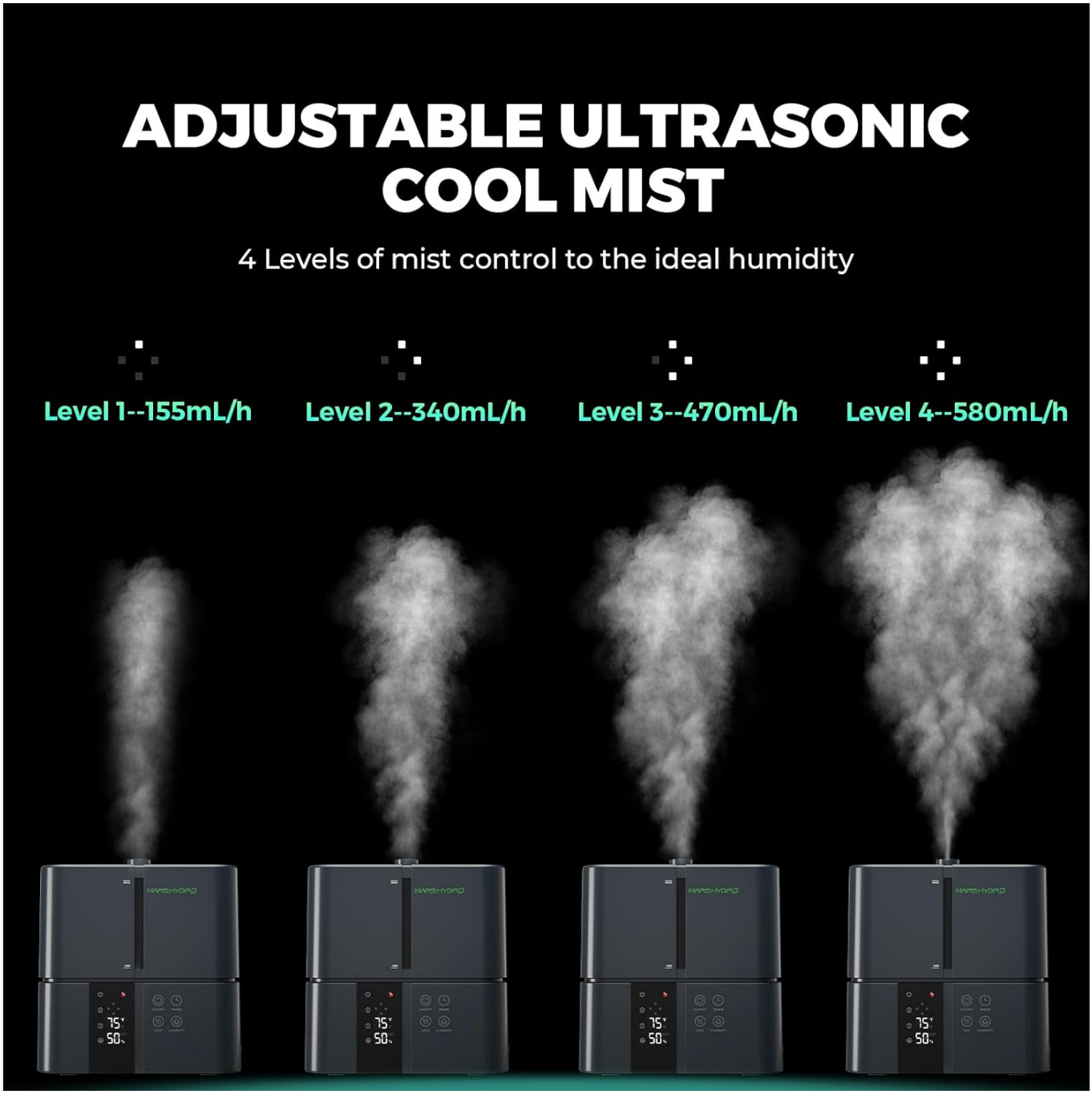


Figure 4.2: Visual representation of the four adjustable ultrasonic cool mist levels, demonstrating the varying mist outputs from Level 1 to Level 4.

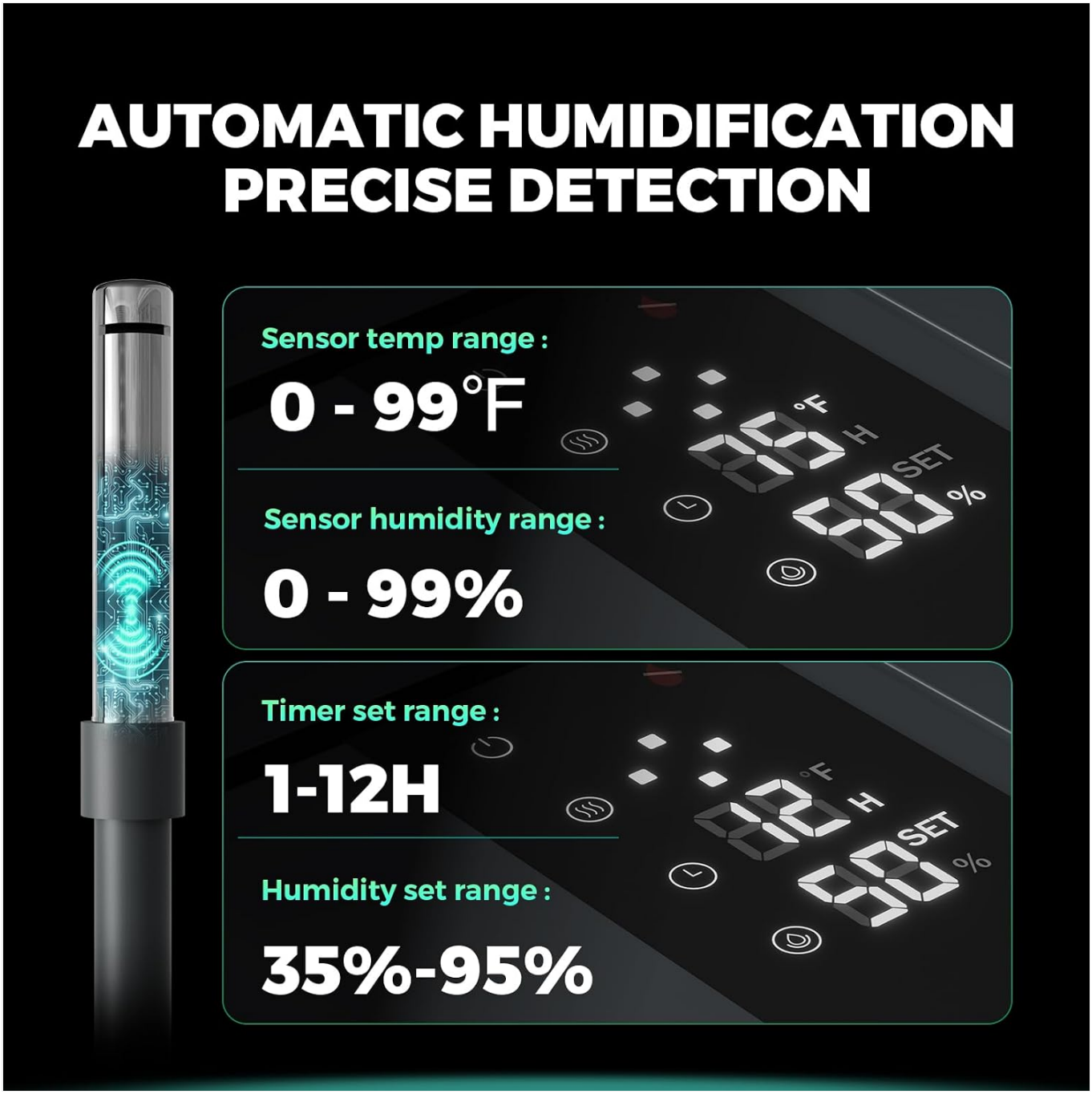


Figure 4.3: Display showing the automatic humidification feature with precise detection, including sensor temperature range (0-99°F), humidity range (0-99%), timer set range (1-12H), and humidity set range (35%-95%).

5. Maintenance

5.1 Grow Tent Maintenance

- **Cleaning:** Periodically wipe down the interior Mylar lining with a damp cloth to remove dust and debris. For stubborn stains, use a mild, non-abrasive cleaner. Ensure the tent is completely dry before zipping it up.
- **Zipper Care:** Keep zippers clean and free of debris. Lubricate with a silicone-based spray if they become stiff.
- **Frame Inspection:** Regularly check the metal frame for any signs of corrosion or loose connections. Tighten as necessary.
- **Floor Tray:** Remove and clean the waterproof floor tray regularly to prevent water buildup and mold growth.

5.2 Humidifier Maintenance

- **Daily Cleaning:** Empty and rinse the water tank daily to prevent bacterial growth.
- **Weekly Cleaning:**

a. Unplug the humidifier.
b. Remove the water tank and empty any remaining water.
c. Pour 2-3 cups of undiluted white vinegar into the water tank and base reservoir. Let it soak for 20-30 minutes to loosen mineral buildup.
d. Use a soft brush or cloth to gently scrub the ultrasonic nebulizer (mist outlet) and the inside of the water tank.
e. Rinse all components thoroughly with clean water until the vinegar smell is gone.
f. Dry all parts completely before reassembling.

- **Water Quality:** Use distilled or demineralized water to minimize mineral deposits and extend the humidifier's lifespan.
- **Filter Replacement:** If your model includes a filter (check product specifications), follow the manufacturer's guidelines for replacement.

6. Troubleshooting

6.1 Grow Tent Issues

Problem	Possible Cause	Solution
Light leaks from zippers/seams	Zipper not fully closed, fabric misalignment, minor manufacturing defect.	Ensure zippers are fully closed and the double-flap protection is utilized. Check seams for small holes; use light-blocking tape if necessary.
Tent unstable/wobbly	Frame poles not fully inserted into connectors, uneven surface.	Press all poles firmly into connectors until they click. Place tent on a level surface.
Poor air circulation	Inadequate fan size, blocked vents.	Ensure exhaust and intake fans are appropriately sized for the tent volume. Check that all ventilation ports are clear.

6.2 Humidifier Issues

Problem	Possible Cause	Solution
No mist or low mist output	Low water level, mineral buildup on nebulizer, clogged air inlet, incorrect humidity setting.	Refill water tank. Clean the ultrasonic nebulizer with vinegar. Ensure air inlet is clear. Adjust desired humidity setting lower than current reading.
Unusual noise	Unit not level, foreign object in water tank, fan obstruction.	Place humidifier on a flat surface. Check water tank for debris. Contact support if noise persists.
Inaccurate humidity reading	Sensor probe dirty or improperly placed.	Clean the sensor probe. Ensure it is placed in an open area within the tent, away from direct mist.
Water leakage	Water tank not seated correctly, damaged tank/seal.	Ensure water tank is securely placed. Inspect tank and seals for cracks or damage. Do not overfill.

7. Specifications

7.1 Grow Tent Specifications

- **Dimensions:** 60" (L) x 32" (W) x 80" (H) (5x2.6 feet)

- **Material:** 1680D Oxford Nylon Fabric, Highly Reflective Mylar, Waterproof PE Material
- **Frame Material:** Corrosion-resistant metal poles
- **Pole Diameter:** 16mm
- **Pole Thickness:** 0.9mm
- **Features:** Observation window, floor tray, smooth zippers with double-flap protection

7.2 Plant Humidifier Specifications

- **Capacity:** 5 Liters
- **Mist Output Levels:** 4 levels (155mL/h, 340mL/h, 470mL/h, 580mL/h)
- **Humidity Adjustment Range:** 35% - 95%
- **Timer Function:** 1-12 hours
- **Sensor Probe:** Included, for real-time temperature (0-99°F) and humidity (0-99%) monitoring
- **Control:** Touch panel and remote control
- **Operation:** Ultrasonic, silent operation

Note: Specifications are subject to change without prior notice for product improvement.

8. Warranty and Support

For warranty information and customer support, please refer to the warranty card included with your product packaging or visit the official MARS HYDRO website.
MARS HYDRO Official Website: www.marshydro.com
When contacting support, please have your product model number (MARS HYDRO 5x2.6 Grow Tent & 5L Humidifier Combo Kit) and purchase date ready.

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