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MARS HYDRO FC1500 Grow Kit

MARS HYDRO 3x3 Smart Grow Tent Kit Instruction Manual

Model: FC1500 Grow Kit

INTRODUCTION

Welcome to the MARS HYDRO 3x3 Smart Grow Tent Kit. This comprehensive system is designed to provide an optimal environment for indoor plant cultivation, featuring smart WiFi control, high-efficiency LED lighting, and an advanced ventilation system. This manual will guide you through the setup, operation, and maintenance of your new grow tent kit to ensure successful plant growth.



Image: Overview of the MARS HYDRO 3x3 Smart Grow Tent Kit, showcasing all included components and the assembled tent with plants.

WHAT'S INCLUDED

Your MARS HYDRO 3x3 Smart Grow Tent Kit includes the following components:

- FC1500 EVO Samsung LM301H EVO LED Grow Light
- 32"x32"x63" Grow Tent
- 4-inch 205 CFM Inline Fan
- Ventilation Speed Controller
- Carbon Filter
- 25ft Ducting
- 6-inch Clip Fan
- Grow Room Glasses
- Elastic Trellis Netting
- 2pcs Vent Covers
- 3pcs Stainless Clamps

- 4pcs Grow Bags
- Timer
- Humidity Thermometer
- Pruning Shear
- 2pcs Corner Shelf
- 2pcs Rope Hangers

SETUP INSTRUCTIONS

Follow these steps for a convenient and hassle-free installation of your grow tent system.

1. Grow Tent Assembly

1. **Verify Components and Assemble Metal Frame:** Unpack all parts and ensure everything is present. Assemble the metal frame according to the included diagram, ensuring all poles are securely connected with the pins popped into place.
2. **Position Tent Fabric:** Lay the tent fabric horizontally on the floor. Drape the tent fabric over the assembled metal frame, starting from the bottom. It is often easier to fit the bottom corners first, then work your way up.
3. **Stand Tent Upright:** Once the fabric is mostly on the frame, carefully stand the tent upright. Adjust the fabric as needed to ensure a snug fit.
4. **Install Hanging Bars and Floor Tray:** Insert the hanging bars at the top of the tent for the grow light and ventilation system. Place the removable floor tray inside the tent at the bottom.

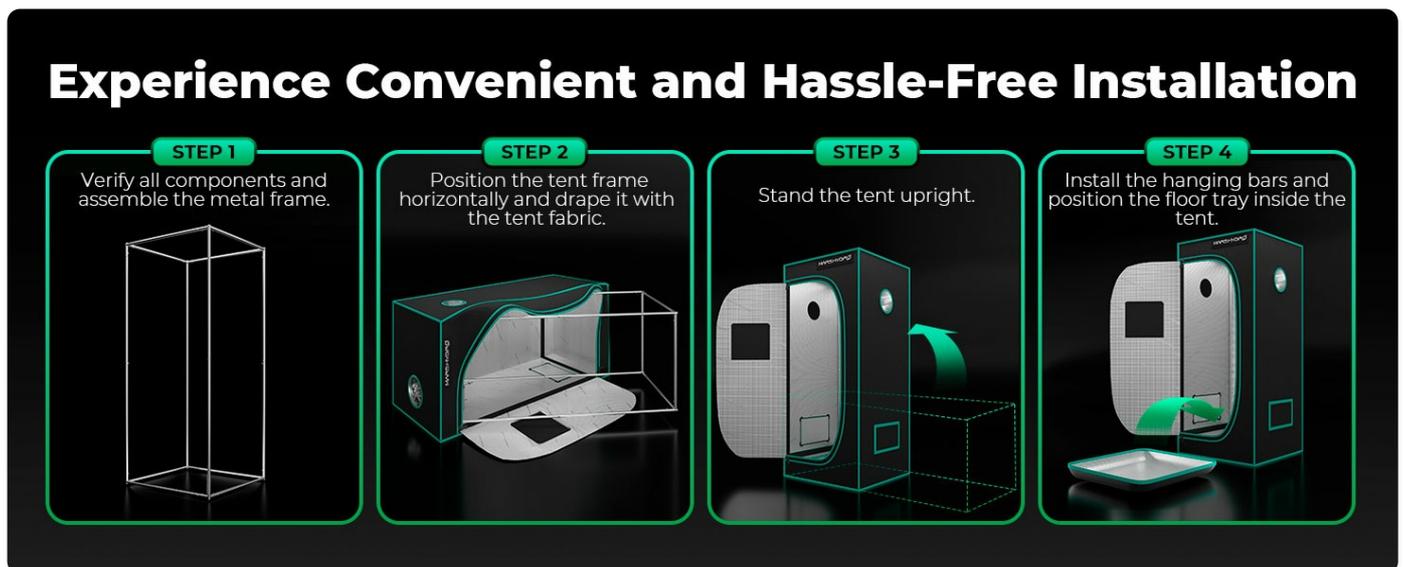


Image: Step-by-step visual guide for assembling the grow tent frame and fabric.

The tent features 1680D diamond mylar for high reflectivity, boosting PPF by 25% compared to 600D materials. Heavy-duty zippers with light-blocking strips and adjustable ventilation ports with light-tight seals minimize light leakage. The metal frame has a 0.8mm thickness and 16mm diameter, supporting up to 88lb/40kg.

2.8x Thicker than 600D, with Stronger Wear Resistance and Tear Resistance

MARSHYDRØ

1680 D

Others

600 D

2.8X thicker

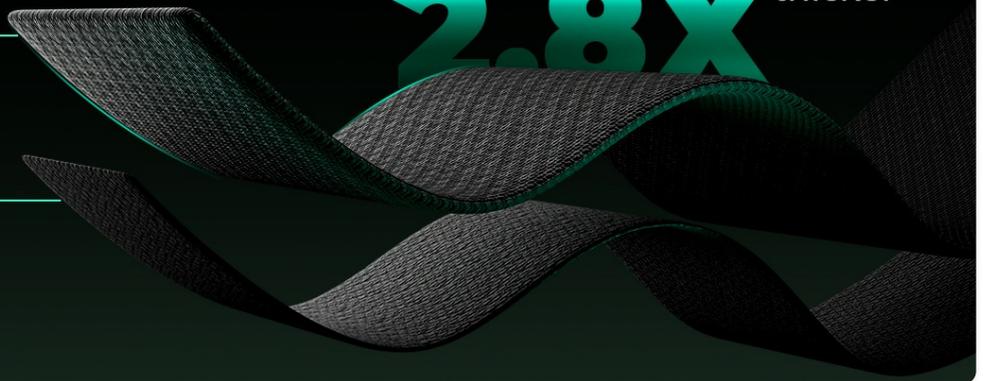


Image: Illustration demonstrating the superior thickness and durability of 1680D tent material compared to 600D.

Sturdy Metal Frame Ensuring Your Plants' Safety



Image: Detail of the sturdy metal frame, highlighting its 16mm diameter and 0.8mm thickness for structural integrity.

Designed to Minimize Light Leakage



Image: Features designed to minimize light leakage, including specialized zippers and adjustable vent covers.

2. Grow Light Installation (FC1500 EVO)

Hang the FC1500 EVO LED Grow Light from the top hanging bars using the provided rope hangers. Ensure it is securely fastened

and level. The light features Samsung LM301H EVO diodes, providing a full spectrum suitable for all stages of plant growth.

SAMSUNG LM301H EVO CHIP

Remarkable **3.14** $\mu\text{mol}/\text{J}$ PPE Efficiency

SAMSUNG
HORTICULTURE LED
Illuminated

Plant-centric
Spectrum
EVO



Image: Detailed view of the Samsung LM301H EVO chip, emphasizing its high efficiency and plant-centric spectrum.

OPTIMIZED FULL SPECTRUM

Maximize yields and enhance crop quality with our rich red spectrum

Boost Flowering



3000K



Warm White Light

Promote Germination



5000K



White Light

Yield More Buds & Crops



660-665NM



Rich Red Light

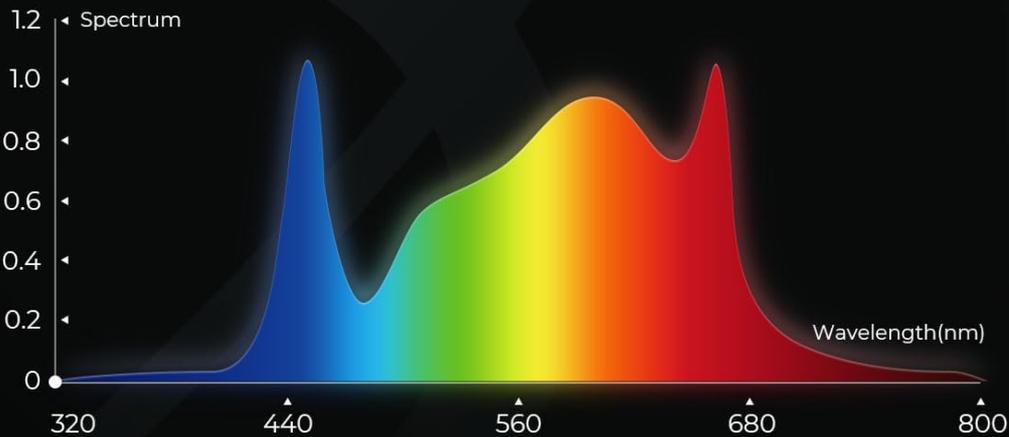


Image: Illustration of the optimized full spectrum, including warm white, white, and rich red light, designed to maximize yields and enhance crop quality.

3. Ventilation System Installation

Install the 4-inch inline fan and carbon filter. Connect them using the 25ft ducting and secure with the stainless clamps. Position the inline fan and carbon filter inside the tent, typically at the top, to facilitate air extraction. The system provides 205CFM airflow with low noise (26.8 dB).

4 INCH POWERFUL AND EFFICIENCY INLINE FAN

Speed
3000 RPM

Airflow
205 CFM

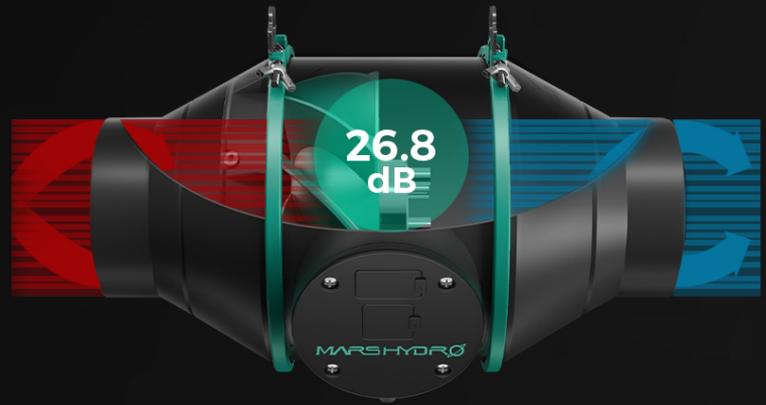


Image: Visual representation of the 4-inch inline fan's powerful airflow and quiet operation.

- Designed to Eliminate Odors and Chemicals for Grow Tents and Hydroponics Room
- Enables Maximum Airflow Passthrough for Both Intake and Exhaust Configurations
- Heavy-duty Construction Contains Aluminum Flanges and Dual-sided Galvanized Steel Mesh



Image: Internal structure of the carbon filter, detailing its charcoal bed for odor and impurity elimination.

4. Clip Fan Installation

Attach the 6-inch clip fan to one of the tent poles using its strong grip clip. Adjust its position and angle to ensure optimal air circulation within the tent. The fan offers 10 speeds and 90° horizontal oscillation.

SUPERIOR AIRFLOW, CUSTOMIZABLE ANGLES

90° Horizontal automatic oscillation

Automatic Rotation, Wide Angle Coverage, Smoothly Sweeping Reliable Oscillation



80°

80° Vertical manual scillation

Directed Airflow, Flexible Tilting, Wide-Ranging, User-Friendly

Image: Features of the clip fan, including its oscillation capabilities for superior airflow and wide-ranging coverage.

5. Other Accessories

- **Humidity Thermometer:** Place the humidity thermometer inside the tent to monitor environmental conditions.
- **Timer:** Connect the timer to your grow light to automate light cycles.
- **Grow Bags:** Use the provided grow bags for your plants.
- **Pruning Shear & Grow Room Glasses:** Keep these handy for plant care.
- **Elastic Trellis Netting & Corner Shelves:** Install as needed for plant support and organization.

MARS HYDRO PRUNING SHEAR

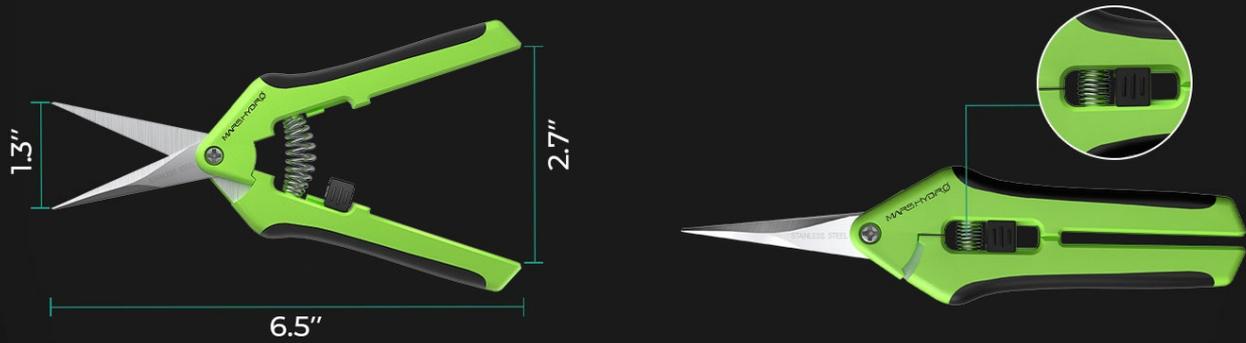


Image: Specifications and design of the Mars Hydro Pruning Shear, an essential tool for plant maintenance.

MARS HYDRO UV/IR GLASSES

Constructed using top-tier mineral glass which globally recognized synthetic materials



Image: Details of the Mars Hydro UV/IR Glasses, constructed from high-quality mineral glass for eye protection.

OPERATING INSTRUCTIONS

1. Smart WiFi Control (Mars Hydro App)

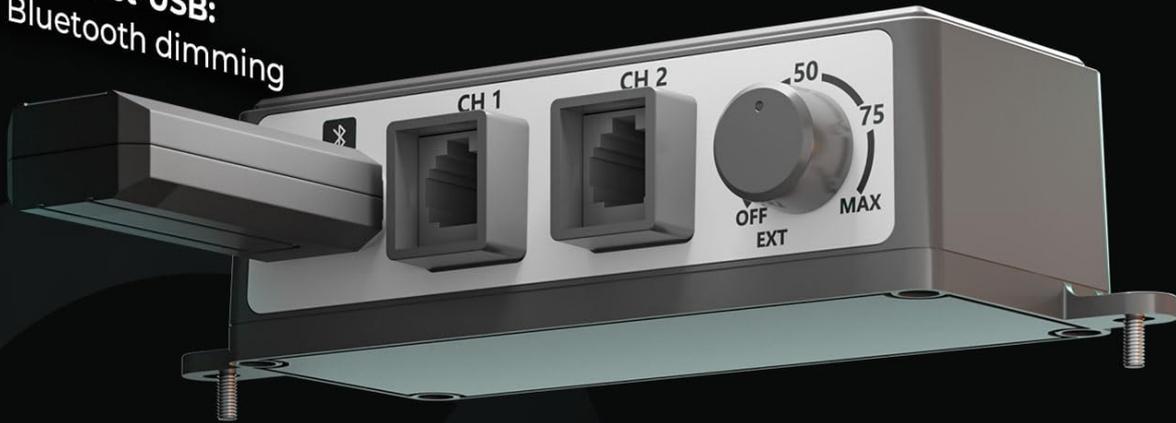
To unlock the full smart features of your grow tent kit, purchase the Mars Hydro iConnect USB and sensor (sold separately). Connect these to the Mars Hydro app via Bluetooth/WiFi for remote control and monitoring.

- **Remote Lighting Control:** Adjust light brightness from 0 to 100%.
- **Timed Automatic Dimming:** Set up to 5 sets of timed dimming schedules.
- **Custom Programming:** Create custom Seedling, Veg, and Bloom programs.
- **Environmental Monitoring:** Intelligently monitor and set temperature and humidity, achieving automatic ventilation and circulation.

APP DIMMING CONTROL

Control & monitor your grow entirely through your phone locally & remotely

iConnect-USB:
Bluetooth dimming



iConnect-USB is not included and must be purchased separately

Image: The Mars Hydro app interface demonstrating light dimming control and connectivity with the iConnect-USB.

Multiple remote control modes

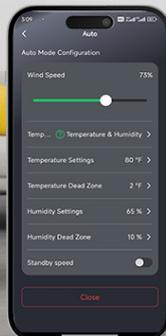
Manual Mode

Monitor temperature, humidity, and VPD, adjust fan speed



Automatic Mode

Custom control of temperature and humidity, automatic ventilation



Timing Mode

Customize time periods and adjust fan operating speed



Image: Overview of the Mars Hydro app's multiple remote control modes, including manual, automatic, and timing settings for comprehensive system management.

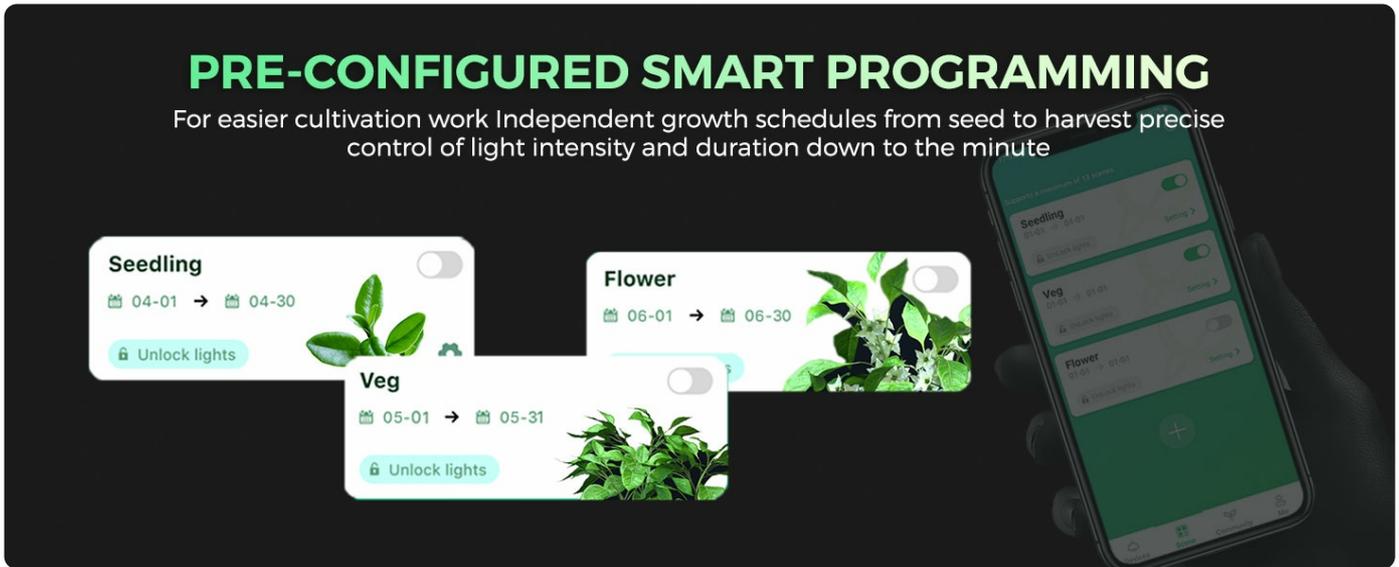


Image: The app's pre-configured smart programming interface, allowing users to set independent growth schedules for different plant stages.

2. Light Settings and PPF

The FC1500 light provides an overall PPE of 2.85 $\mu\text{mol}/\text{j}$ and a PPF of up to 420 $\mu\text{mol}/\text{m}^2/\text{s}$. Adjust the light brightness from 0 to 100% for energy saving and to suit different growth stages.

Recommended Hanging and Dimming Heights

Stage	Required PPF	Height	Dimming	Working Time
Seeding Stage	100-300 $\mu\text{mol}/\text{m}^2/\text{s}$	25cm	25%	18H ON
Vegetative Stage	400-600 $\mu\text{mol}/\text{m}^2/\text{s}$	25cm	75%	18H ON
Flowering Stage	800-1000 $\mu\text{mol}/\text{m}^2/\text{s}$	25cm	100%	12H ON

RECCOMENDED HANGING AND DIMMING HEIGHTS

	REQUIRED PPF	HEIGHT	DIMMING	WORKING TIME
SEEDING STAGE 	100-300 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	25%	18H ON
VEGETATIVE STAGE 	400-600 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	75%	18H ON
FLOWERING STAGE 	800-1000 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	100%	12H ON

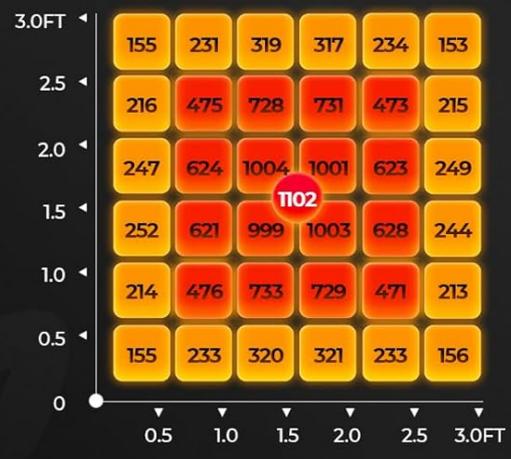
Image: Guide for optimal light settings, including PPF, height, dimming, and working hours for different plant growth stages.

FC-E1500 PPFD MAP

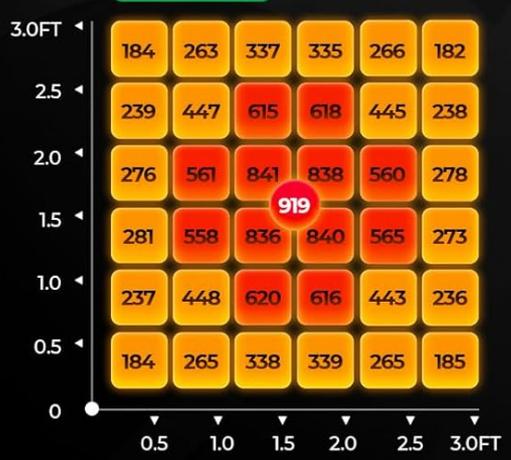
High light effectively pierces canopy providing sufficient light for each leaf and bud



Height: 10"



Height: 12"



Height: 14"

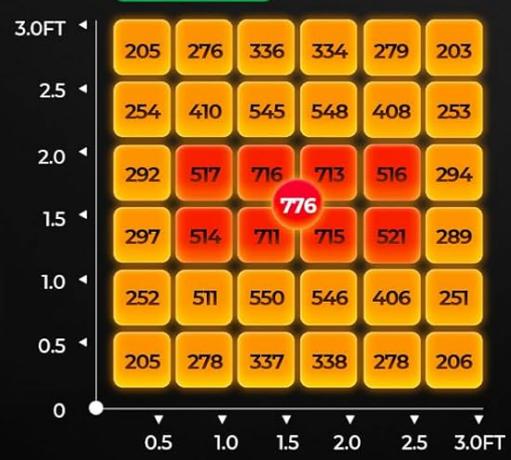


Image: FC-E1500 PPFD maps illustrating light distribution and intensity at various hanging heights.

3. Ventilation Speed Control

The inline fan's speed can be adjusted from 0 to 100% using the ventilation speed controller. This allows you to manage airflow and maintain optimal temperature and humidity levels within the tent.

REMOTE APP CONTROL

Plug in iConnectu USB and Sensor(not included), Remote control anytime, anywhere Automatic ventilation and circulation



Image: Features of the inline fan and its remote app control, emphasizing low noise and adjustable speed for efficient ventilation.

4. Timer Settings

Use the included timer to automate the on/off cycles of your grow light. For advanced timing and dimming programs, connect the Mars Hydro iConnect-USB (sold separately) to enable Bluetooth dimming functionality via the app.

Image: The Mars Hydro app's timer setting interface, allowing automatic control of devices at preset times.

MAINTENANCE

- **Grow Tent Cleaning:** Regularly wipe down the interior of the tent with a damp cloth to prevent dust and debris buildup. The detachable floor piece makes cleaning easier.
- **Carbon Filter Replacement:** The carbon filter's effectiveness will decrease over time. Replace the activated carbon or the entire filter unit as needed, typically every 6-12 months depending on usage.
- **Light Fixture Cleaning:** Ensure the LED grow light is clean and free of dust to maintain optimal light output. Use a soft, dry

cloth to gently wipe the light surface when powered off and cool.

- **Fan Maintenance:** Periodically check the inline fan and clip fan for dust accumulation on blades and motor. Clean as necessary to ensure efficient operation and longevity.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Light Leakage from Tent	Zipper not fully closed, vent covers not sealed, small holes.	Ensure zippers are fully closed and light-blocking strips are aligned. Check vent covers for proper sealing. Inspect tent fabric for any damage and repair if necessary.
Inline Fan Not Operating / Low Airflow	Power issue, speed controller setting, clogged filter, ducting obstruction.	Verify power connection. Check speed controller setting. Clean or replace carbon filter. Ensure ducting is not kinked or obstructed.
App Connectivity Issues	Bluetooth/WiFi interference, iConnect USB not properly connected, app outdated.	Ensure iConnect USB is securely plugged in. Check Bluetooth/WiFi signal strength. Restart the app and your device. Update the Mars Hydro app to the latest version.
Unusual Noise from Fan	Loose components, dust buildup on blades, motor issue.	Check for any loose parts or debris. Clean fan blades thoroughly. If noise persists, contact customer support.

SPECIFICATIONS

Brand: MARS HYDRO

Model: FC1500 Grow Kit

Product Dimensions: 32"L x 32"W x 63"H

Item Weight: 51.1 pounds (23.22 Kilograms)

Frame Material: Metal (0.8mm thickness, 16mm diameter)

Inner Material: 1680D Diamond Mylar

Outer Material: Canvas

Light Source Wattage: 150 Watts (FC1500 EVO LED Grow Light)

Light Efficiency (PPE): 2.85 $\mu\text{mol/j}$ (overall), 3.14 $\mu\text{mol/j}$ (per diode)

Max PPFD: Up to 420 $\mu\text{mol/m}^2/\text{s}$

Weight Limit (Frame): 88lb / 40kg

Inline Fan Airflow: 205 CFM

Inline Fan Noise Level: 26.8 dB

Color: Black and White

ASIN: B0CST2L7BC

Date First Available: January 19, 2024

WARRANTY AND SUPPORT

MARS HYDRO offers a 5-year after-sales maintenance for Grow Lights. For any product inquiries, technical assistance, or warranty claims, please contact MARS HYDRO customer support. You can find more information and contact details on the official MARS HYDRO store page on Amazon or their website.

- **Return Policy:** 30-day easy returns.

- **Seller:** MARS HYDRO
- **Customer Support:** Refer to the MARS HYDRO store for direct contact information.

For additional resources and product information, visit the [MARS HYDRO Store on Amazon](#).