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- › [MARS HYDRO](#) /
- › [MARS HYDRO FC4800 LED Grow Light Instruction Manual](#)

### MARS HYDRO Smart FC4800

# MARS HYDRO FC4800 Samsung LM301H EVO Bar LED Grow Light

Model: Smart FC4800

Brand: MARS HYDRO

## 1. INTRODUCTION

The MARS HYDRO FC4800 LED Grow Light is designed for high-efficiency indoor plant cultivation, utilizing advanced Samsung LM301H EVO LEDs to provide a full spectrum of light optimized for all growth phases. This manual provides essential information for the safe and effective setup, operation, and maintenance of your grow light.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before operating the device. Failure to do so may result in injury or damage to the product.

- For indoor use only. Do not expose the light to water or high humidity environments.
- Ensure proper ventilation around the light to prevent overheating.
- Do not look directly at the LED lights when they are on, as this may cause eye strain or damage.
- Always unplug the light from the power source before cleaning or performing any maintenance.
- Keep the light and all electrical components away from children and pets.
- Use only the provided power cord and accessories.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x FC4800-EVO LED Grow Light
- 1x LED Driver

- 2x Rope Ratchets
- 1x Hanging Kits
- 1x User Manual



Image: The MARS HYDRO FC4800 product packaging box, indicating a discreet package for delivery.

## 4. SETUP

### 4.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect the light and accessories for any signs of damage during transit. Contact customer support immediately if any damage is found.

### 4.2 Assembly

The FC4800 features a foldable design for easy setup and storage.

- Unfold the light bars to form the full rectangular shape.
- Attach the LED driver to the center of the light fixture using the provided clips or screws. Ensure it is securely fastened.

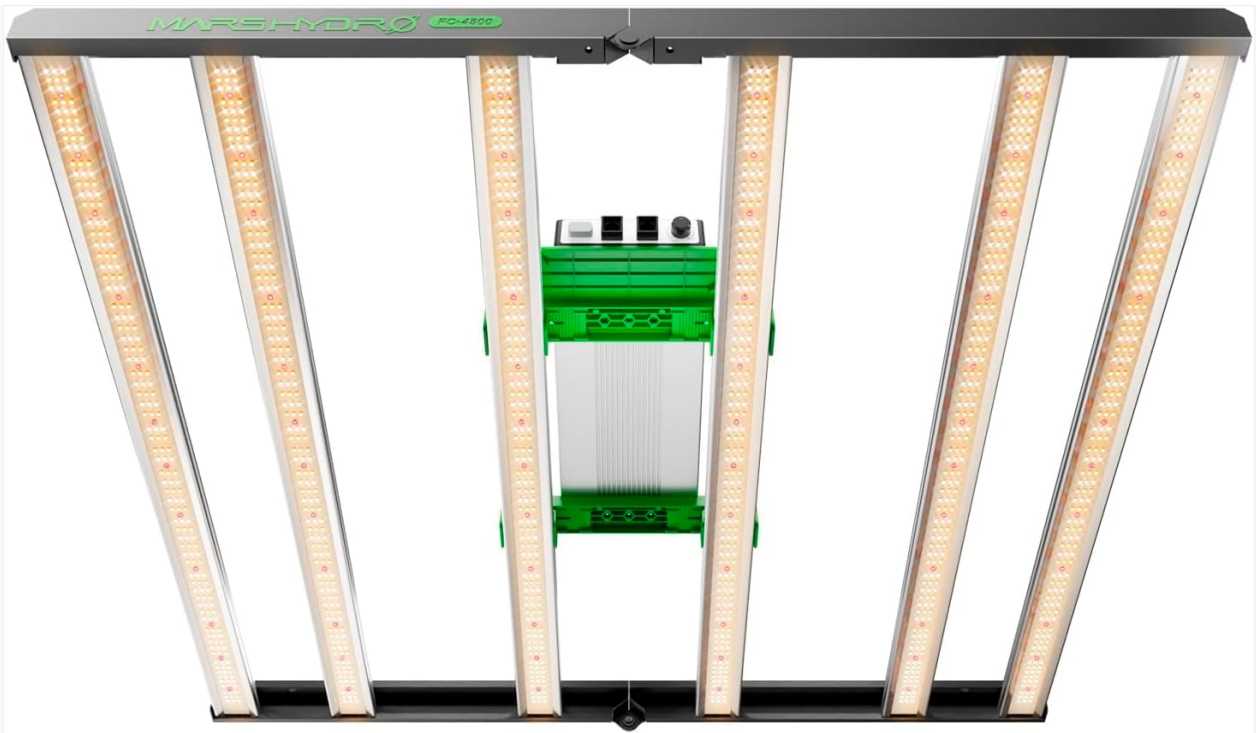


Image: The fully assembled MARS HYDRO FC4800 LED Grow Light, ready for hanging.

## DIMMING CONTROL & DAISY CHAIN

Up to 30 FC4800 lights can be connected

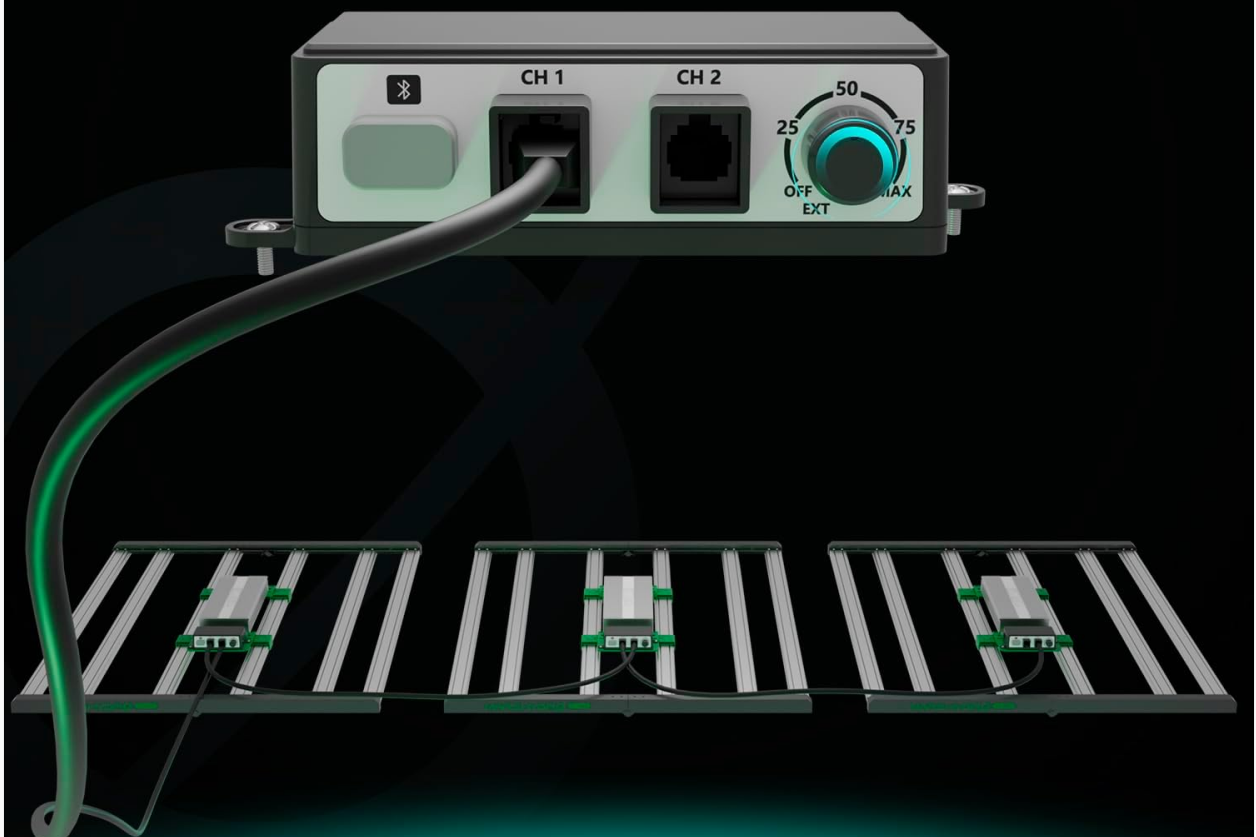


Image: Illustration of the FC4800's foldable design, allowing for compact storage and easy setup.

### 4.3 Mounting and Hanging

Use the provided hanging kits and rope ratchets to suspend the light securely above your plants.

- Attach the hanging wires to the designated points on the light fixture.
- Connect the rope ratchets to the hanging wires and suspend the light from a sturdy support structure in your grow tent or room.
- Adjust the height of the light using the rope ratchets according to the growth stage of your plants. Recommended coverage is 4x4ft for personal grows and 3x3ft for commercial grows.



Image: A MARS HYDRO FC4800 light installed within a grow tent, illustrating a typical home grow application.

### 4.4 Setup Video Guide

Video: An official MARS HYDRO video demonstrating the setup and daisy-chaining of FC series LED grow lights, including the FC4800 model.

## 5. OPERATING INSTRUCTIONS

## 5.1 Powering On/Off

- Plug the power cord into a suitable electrical outlet.
- The light will illuminate. To turn off, unplug the power cord or use the dimmer control.

## 5.2 Dimming Control

The FC4800 features both manual and smart dimming capabilities.

- **Manual Dimming:** Use the dimmer knob on the LED driver to adjust light intensity from 10% to 100%.
- **Smart APP Control:** For remote scheduling and brightness adjustments, connect the light to the MARS HYDRO Smartphone APP via the iConnectu Controller (sold separately).



Image: The MARS HYDRO app interface showing the dimming control for the grow light, allowing for precise adjustments.

Video: An official MARS HYDRO video providing a detailed guide on operating the MARS HYDRO APP for light control and scheduling.

## 5.3 Daisy Chain Functionality

Multiple FC4800 lights can be linked together and controlled from a single dimmer.

- Connect the daisy chain cables between the lights using the designated ports on the LED drivers.

- Up to 100 FC4800 480-watt grow lights can be linked in a single daisy chain.

# DIMMING CONTROL & DAISY CHAIN

Up to 30 FC4800 lights can be connected

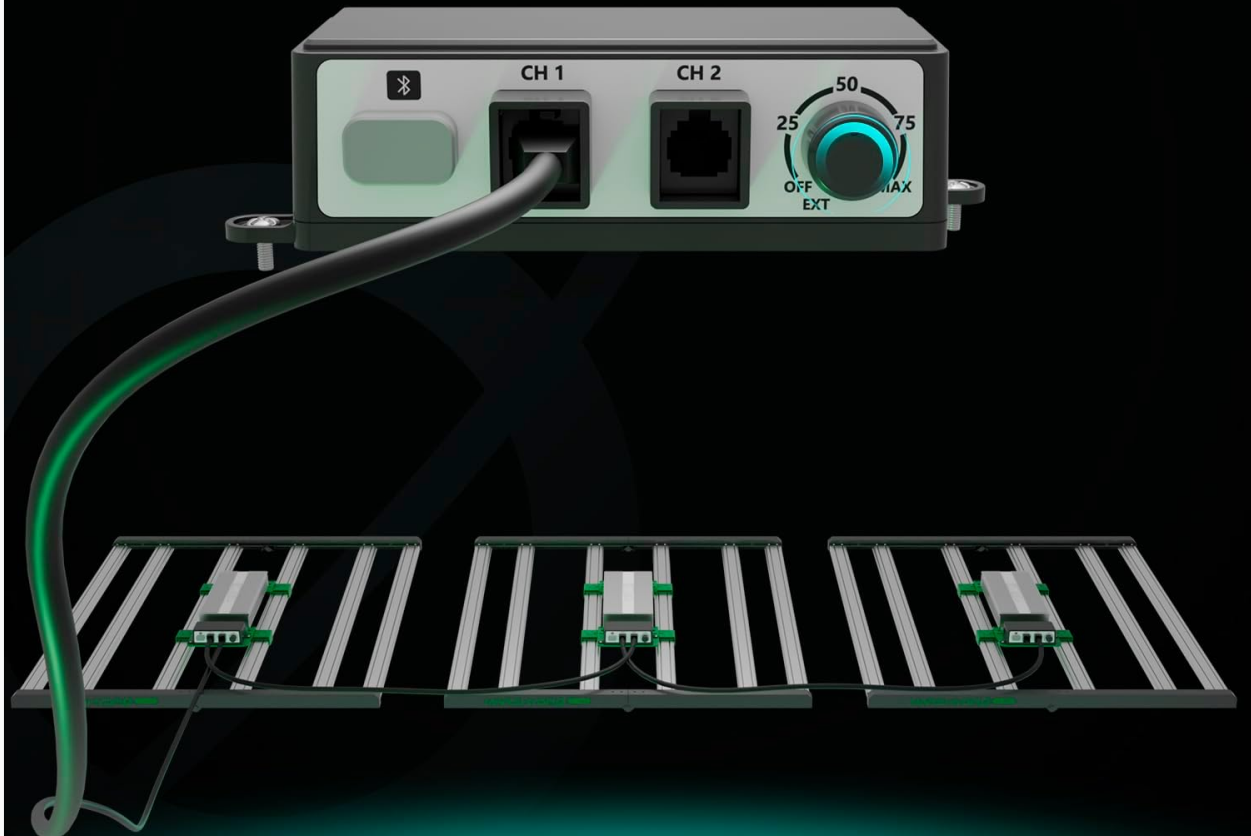


Image: A visual representation of how multiple MARS HYDRO FC4800 lights can be daisy-chained together for synchronized control.

## 5.4 Full Spectrum Information

The FC4800 provides a comprehensive light spectrum for all plant growth stages.

- **Warm White (2800-3000K):** Ideal for promoting flowering.
- **White (4800-5000K):** Supports germination and vegetative growth.
- **Rich Red (650-665nm):** Enhances flowering and overall crop quality.

# OPTIMIZED FULL SPECTRUM

Maximize yields and enhance crop quality with our rich red spectrum

Boost Flowering



**3000K**

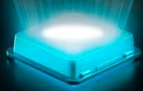


Warm White Light

Promote Germination



**5000K**



White Light

Yield More Buds & Crops



**660-665NM**



Rich Red Light

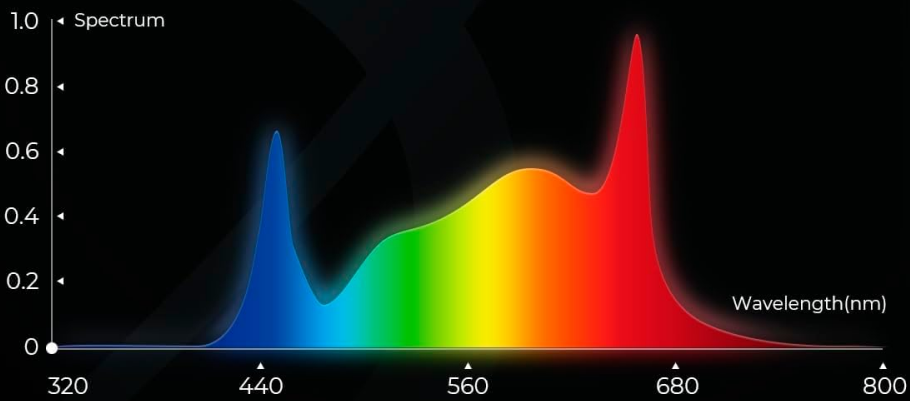


Image: A graph illustrating the optimized full spectrum provided by the MARS HYDRO FC4800, highlighting warm white, white, and rich red light components.

# FC-EVO SAMSUNG LM301H EVO

Highest Efficiency Chip in the Market



Image: A close-up of the Samsung LM301H EVO chip, emphasizing its high efficiency for grow light applications.

Video: An official MARS HYDRO video showcasing the 2024 NEW FC Series, highlighting the Samsung LM301H EVO LEDs and their full spectrum capabilities.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your grow light.

- **Cleaning:** Ensure the light is unplugged and cool before cleaning. Use a soft, dry cloth to wipe down the light bars and driver. Do not use abrasive cleaners or immerse any part of the light in water.
- **Heat Dissipation:** The FC4800 features an optimized bar-style aluminum heatsink for efficient heat dissipation. Ensure adequate airflow around the fixture to maintain optimal operating temperatures.

# OPTIMIZED FULL SPECTRUM

Maximize yields and enhance crop quality with our rich red spectrum

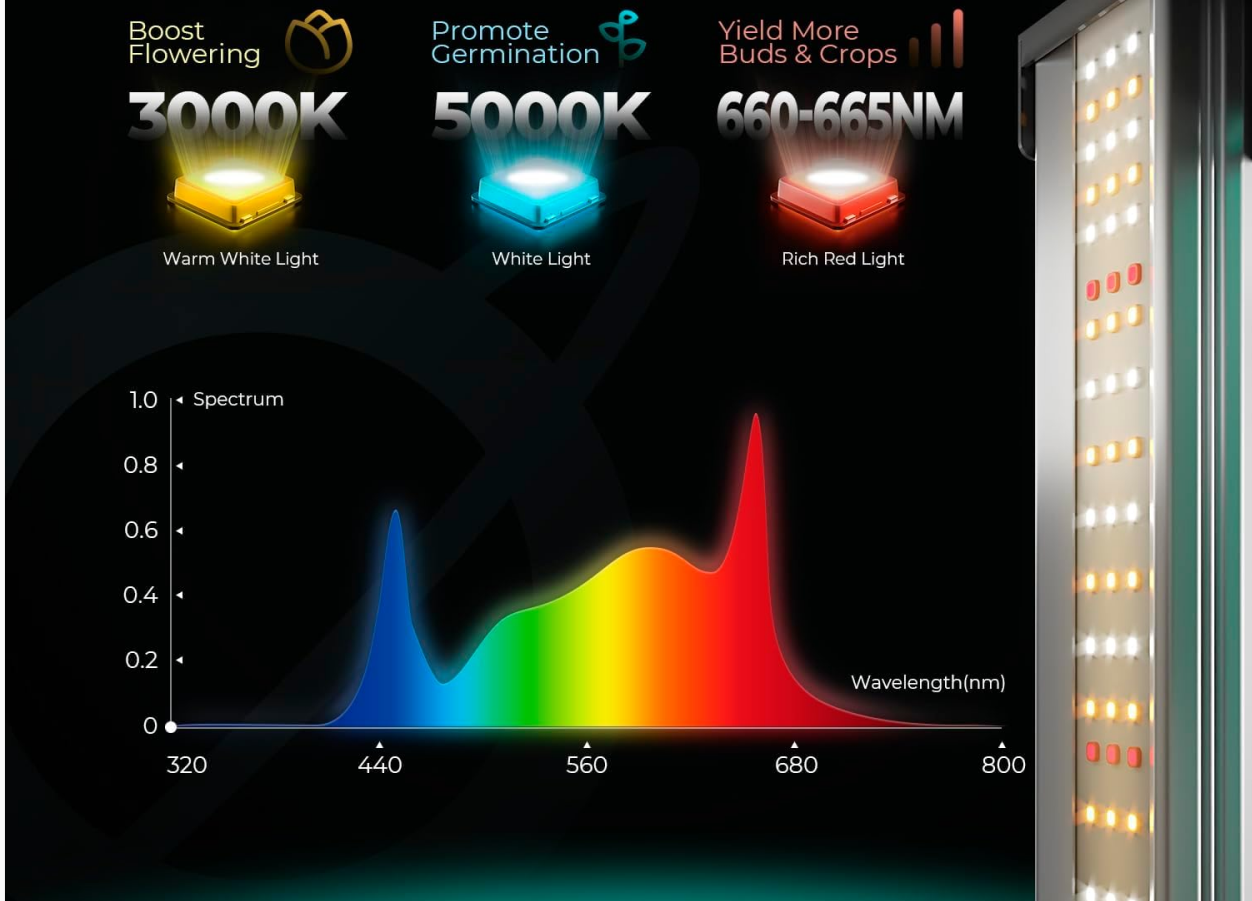


Image: A visual representation of the optimized heat dissipation design of the MARS HYDRO FC4800, featuring an aluminum heatsink.

## 7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Issue	Possible Cause	Solution
Light does not turn on	No power supply; Dimmer set to OFF; Loose connection	Check power cord connection; Adjust dimmer to ON/MAX; Ensure all cables are securely connected.
Uneven plant growth	Incorrect hanging height; Uneven light distribution	Adjust hanging height for optimal PPFd; Ensure light is centered over the grow area.
Light flickering	Unstable power supply; Faulty connection	Check power source stability; Re-secure all connections. If issue persists, contact support.

# FC4800 EVO UNIFORM PPFD MAP

Promote uniform plant growth with even light distribution



Image: A PPFD (Photosynthetic Photon Flux Density) map for the MARS HYDRO FC4800, illustrating uniform light distribution at different heights.

## 8. SPECIFICATIONS

Feature	Detail
Brand	MARS HYDRO
Model	Smart FC4800
Light Source Type	LED (Samsung LM301H EVO)
Power Consumption	480W
Efficiency (PPE)	2.85 $\mu\text{mol}/\text{J}$ (overall), 3.14 $\mu\text{mol}/\text{J}$ (per diode)
Spectrum	650-665nm, 2800-3000K, 4800-5000K

Feature	Detail
Coverage Area	4x4ft (personal), 3x3ft (commercial)
Dimmable	Yes (Manual & APP control with iConnectu Controller)
Daisy Chain	Up to 100 units
Material	Aluminum
Product Dimensions	35.43"L x 23.03"W x 4.92"H
Item Weight	20 Pounds

For detailed product data sheet and energy efficiency information, please refer to the official EPREL database:  
<https://eprel.ec.europa.eu/qr/2063513>

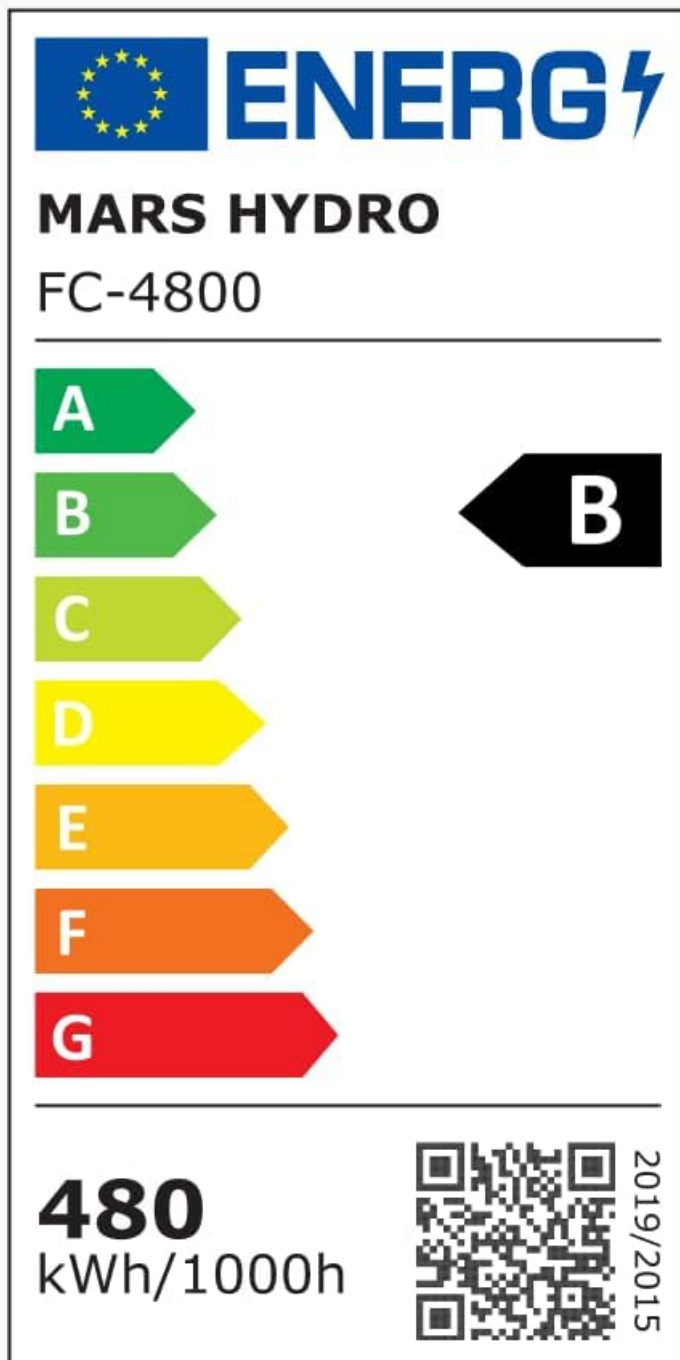


Image: The energy efficiency label for the MARS HYDRO FC-4800, showing its energy class and consumption.

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## 9. WARRANTY AND SUPPORT

MARS HYDRO products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please visit the official MARS HYDRO website or contact their customer service directly.

For technical support, troubleshooting assistance, or inquiries regarding your FC4800 LED Grow Light, please contact MARS HYDRO customer service through their official channels. You may also consider purchasing extended protection plans for additional coverage.

- **3-Year Protection Plan:** Available for purchase.
- **4-Year Protection Plan:** Available for purchase.
- **Complete Protect:** Monthly plan covering eligible past and future purchases.