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WAKYME FSZD-10

WAKYME 1200W LED Grow Light User Manual

Model: FSZD-10
Brand: WAKYME

1. Introduction

Thank you for choosing the WAKYME 1200W LED Grow Light. This high-performance grow light is designed to provide optimal full-spectrum illumination for indoor plants, supporting all stages of growth from germination to flowering and fruiting. Featuring a double switch for Veg and Bloom modes and an efficient heat dissipation system, this light ensures maximum yield with minimum power consumption.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the lifespan of your grow light.



Figure 1.1: WAKYME 1200W LED Grow Light with included accessories (hanging kit, temperature/humidity meter).

2. Safety Information

- **Do not look directly at the LED lights** when the unit is operating. The intense light can cause eye damage.
- Ensure the power supply is disconnected before installation, cleaning, or maintenance.
- This product is designed for indoor use only. Do not expose to water or high humidity environments.
- Ensure proper ventilation around the unit to prevent overheating.
- Keep out of reach of children and pets.
- Do not attempt to disassemble or modify the unit. This will void the warranty and may cause electrical hazards.

3. Setup and Installation

3.1 Unpacking

Carefully remove all components from the packaging. Verify that all items listed below are present:

- WAKYME 1200W LED Grow Light Unit
- Hanging Kit (steel cables, hooks, adjustable rope hangers)
- Power Cord
- Temperature/Humidity Meter (may be included as an accessory)

3.2 Hanging the Grow Light

1. Attach the steel cables to the four hanging points on the top of the grow light unit.
2. Connect the adjustable rope hangers to the steel cables.
3. Securely hang the grow light from a sturdy support structure (e.g., ceiling, grow tent frame) using the hooks. Ensure the support can safely bear the weight of the light (approximately 5.77 pounds).
4. Adjust the height of the grow light above your plants using the adjustable rope hangers. Refer to Section 4.2 for recommended hanging heights.



Figure 3.1: The WAKYME 1200W LED Grow Light installed and illuminating plants.

3.3 Electrical Connection

- Ensure the Veg and Bloom switches on the grow light are in the "OFF" position.
- Connect the provided power cord to the power input on the grow light unit.
- Plug the power cord into a standard 120V AC electrical outlet.
- The unit is designed for daisy-chaining. The top plug port is a standard 3-prong outlet for connecting multiple lights or other devices. Ensure not to exceed the maximum current rating of the circuit.

4. Operating Instructions

4.1 Veg and Bloom Switches

The WAKYME 1200W LED Grow Light features independent Veg and Bloom switches to optimize the light spectrum for different plant growth stages:

- **VEG Switch:** Activates the light spectrum suitable for seeding, germination, and young vegetative growth. This mode typically emphasizes blue light.
- **BLOOM Switch:** Activates the light spectrum ideal for flowering and fruiting stages. This mode typically emphasizes red light.
- **VEG + BLOOM Switches:** For maximum performance during flowering and fruiting, both switches can be turned ON to provide a full spectrum with enhanced red/blue output.

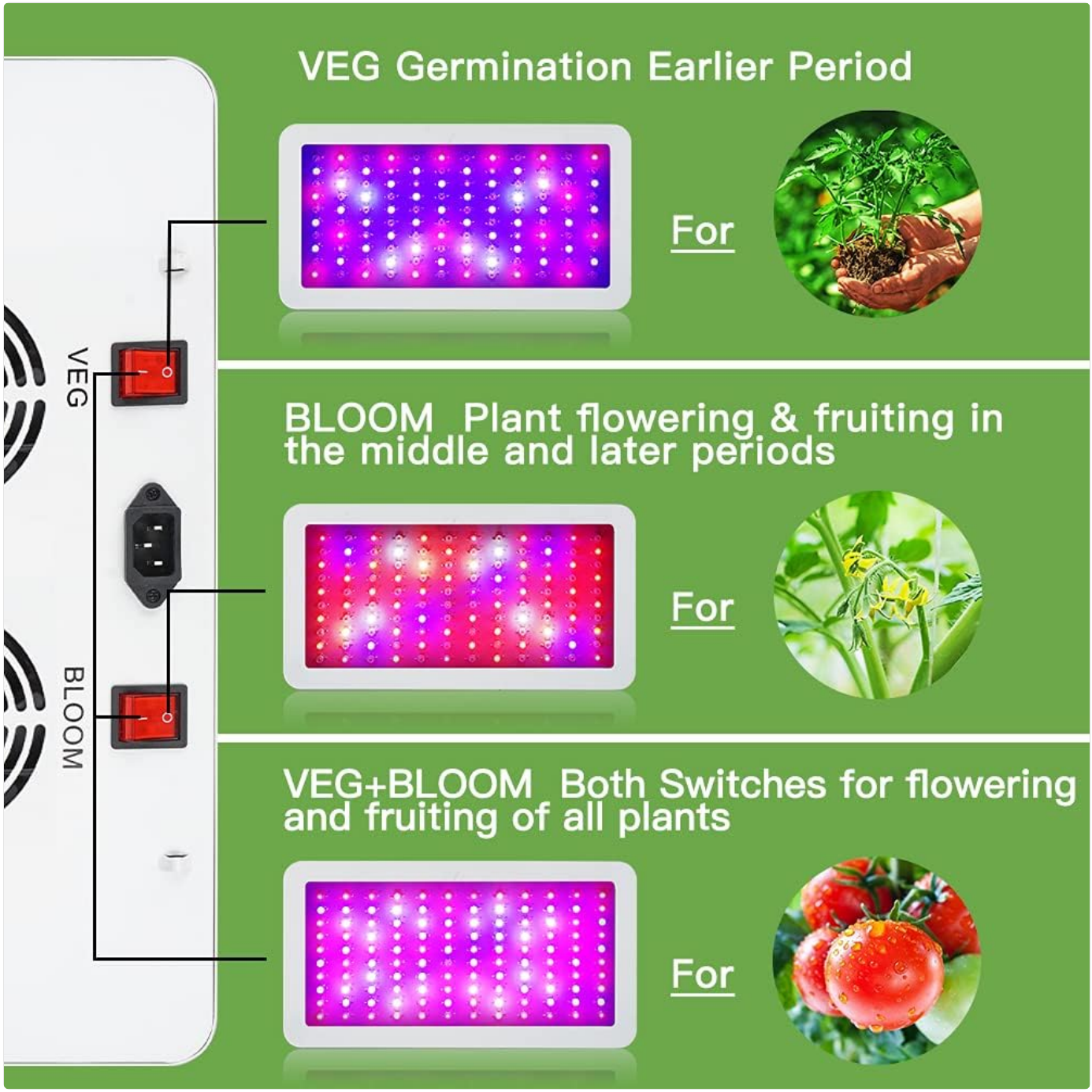

Figure 4.1: Illustration of Veg, Bloom, and combined Veg+Bloom switch functionalities for different plant growth phases.

4.2 Optimal Full Spectrum and Light Distance

The grow light provides a universal full spectrum including Blue, Red, IR (Infrared), UV (Ultraviolet), Cool White, and Warm White light, each contributing to specific aspects of plant development:

- **Cool White (6000-6500K):** Supplements light for full plant growth.

- **Warm White (3000-3200K):** Mimics natural sunlight, promoting overall plant growth.
- **Blue (440-450nm; 450-460nm):** Increases foliage strength, root development, and stem growth.
- **Red (620-630nm; 655-660nm):** Essential for photosynthesis, carbohydrate production, and accelerating plant growth.
- **IR (730nm):** Promotes plant defense mechanisms and quick growth by aiding in shade avoidance.
- **UV (380-410nm):** Inhibits useless growth, stimulates anthocyanin pigments, and enhances fruit/petal coloration.

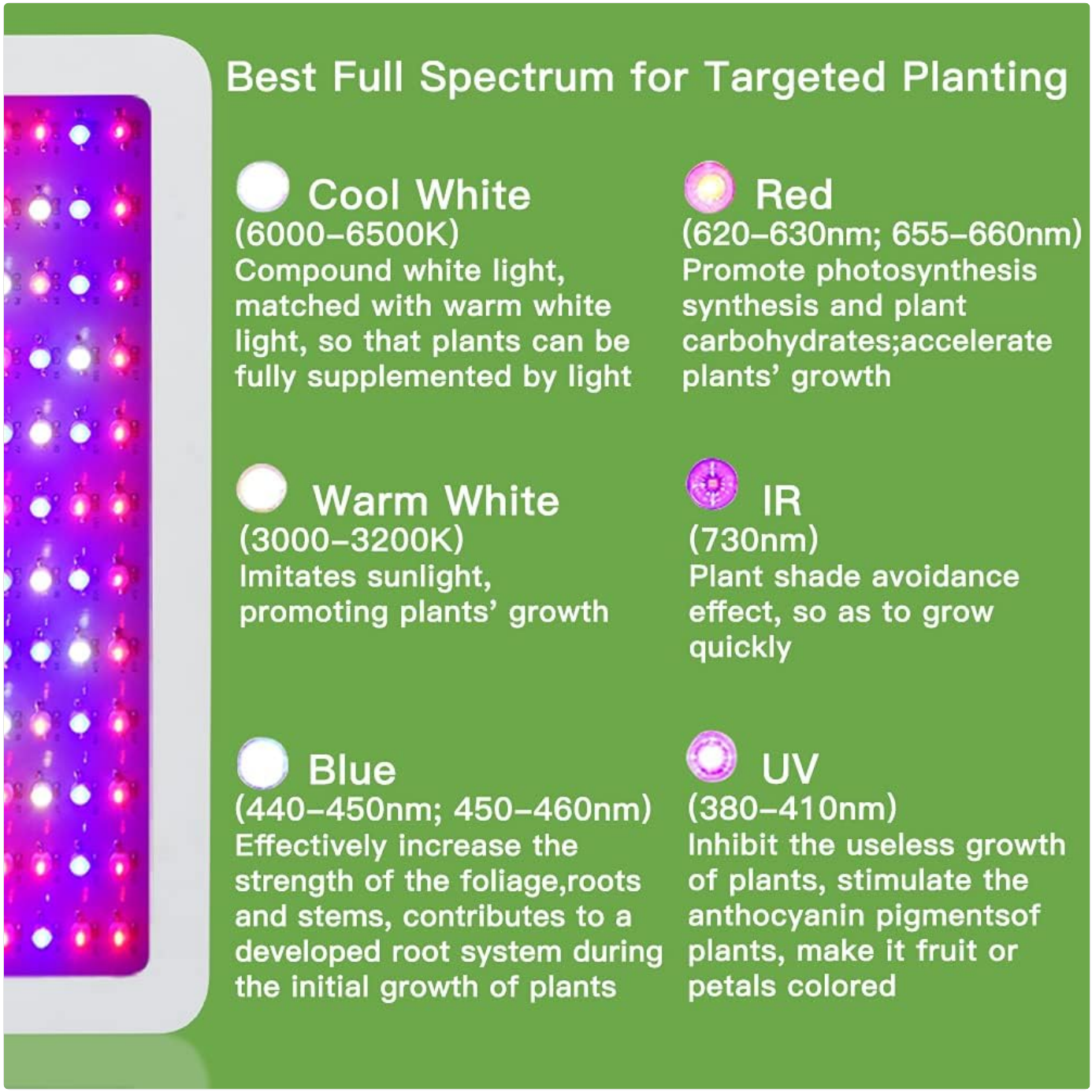

Figure 4.2: Detailed breakdown of the full spectrum provided by the grow light and its benefits.

Recommended hanging distances to achieve optimal PAR (Photosynthetically Active Radiation) values:

- **Vegetative Stage:** 24-30 inches above the plant canopy.
- **Flowering Stage:** 18-24 inches above the plant canopy.

The light provides a PAR of 527 µmol/m²s at 24 inches height, suitable for a 3x3ft growing area. Maximum coverage area is approximately 4x4.5ft at 24 inches height.

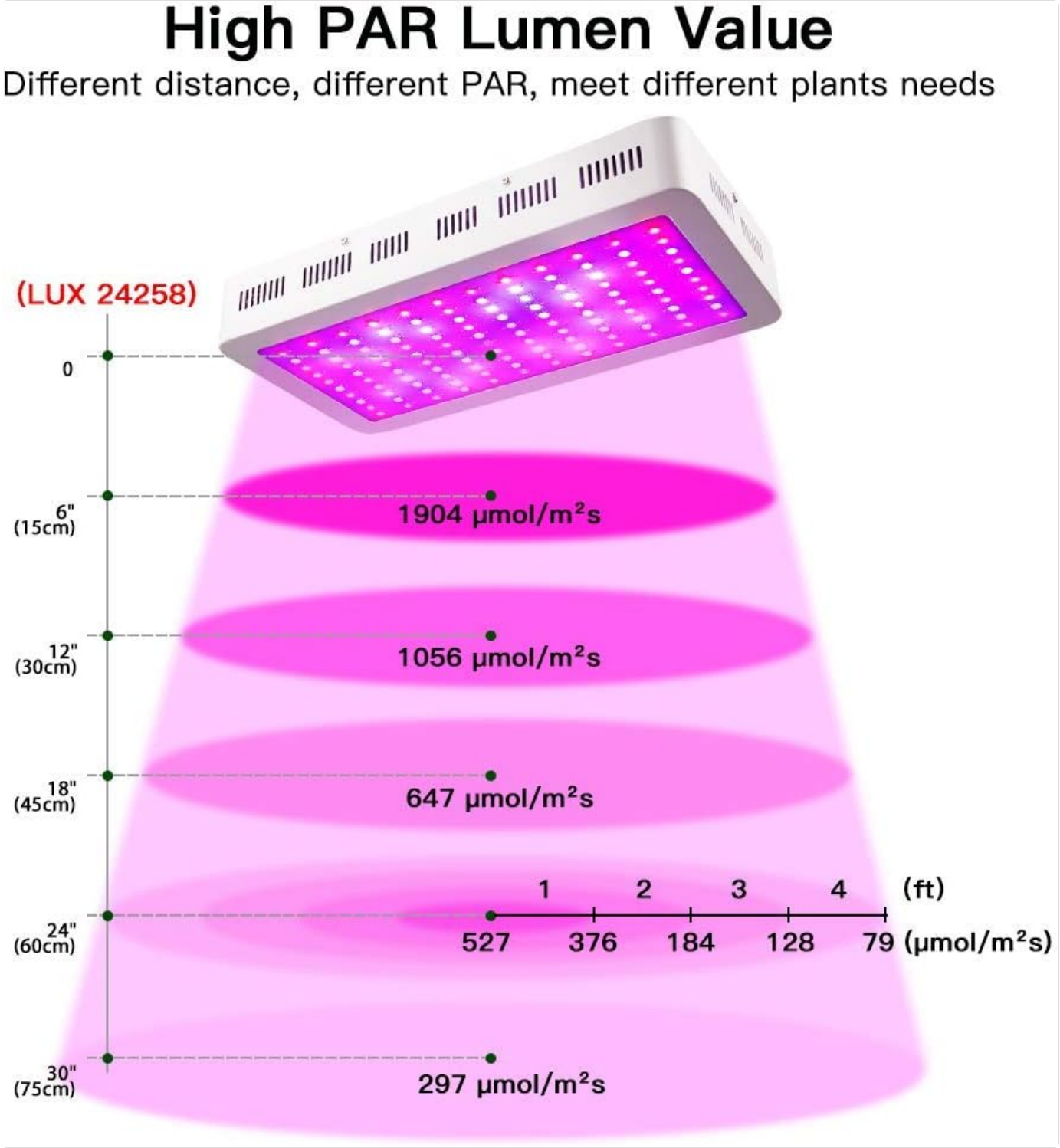

Figure 4.3: PAR (Photosynthetically Active Radiation) values at various distances from the light source, indicating optimal light intensity for plant growth.

4.3 Daily Lighting Schedule

The ideal lighting schedule varies by plant type and growth stage. General recommendations are:

- **Seedling/Vegetative Stage:** 16-18 hours ON / 6-8 hours OFF
- **Flowering/Fruiting Stage:** 12 hours ON / 12 hours OFF

Consider using an external timer for consistent light cycles.

5. Maintenance

5.1 Cleaning

- Before cleaning, always unplug the grow light from the power outlet.
- Use a soft, dry cloth to wipe down the exterior of the unit.
- Do not use liquid cleaners or abrasive materials, as they may damage the light.
- Periodically check the ventilation openings for dust accumulation and gently clean them to ensure proper airflow.

5.2 Heat Dissipation

The WAKYME 1200W LED Grow Light is equipped with a powerful heat dissipation system, including a built-in aluminum substrate with multiple vents and two super-speed fans. This design ensures the light remains cool and quiet during operation, significantly extending its lifespan to approximately 100,000 hours.

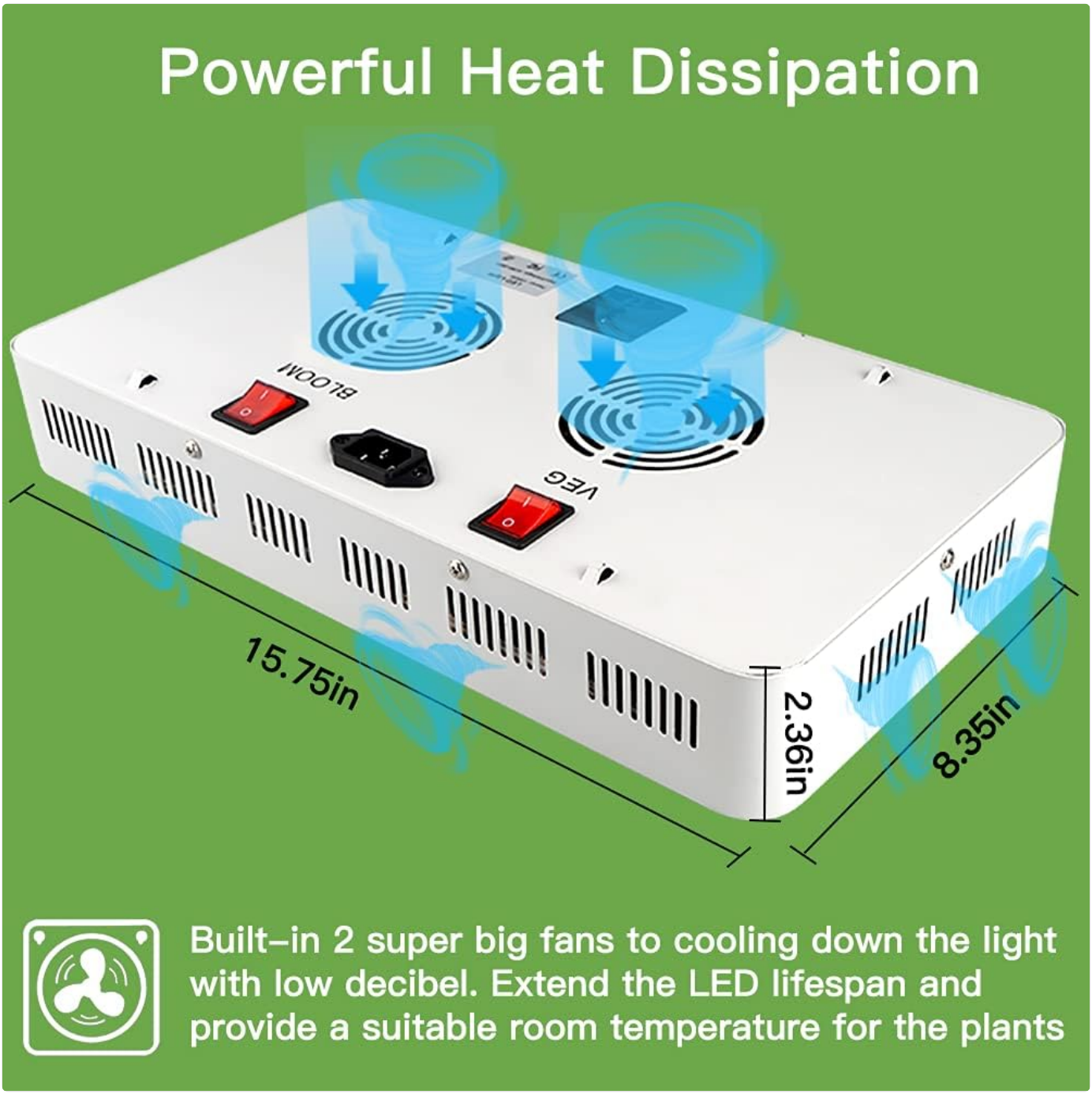

Figure 5.1: Illustration of the efficient heat dissipation system with dual fans, designed to maintain optimal operating temperature and extend product life.

5.3 Energy Efficiency

This 1200W LED grow light consumes only 213 watts of power, offering significant energy savings compared to traditional HPS/MH systems while providing comparable light output. This translates to approximately 0.213 kWh per hour of

operation.

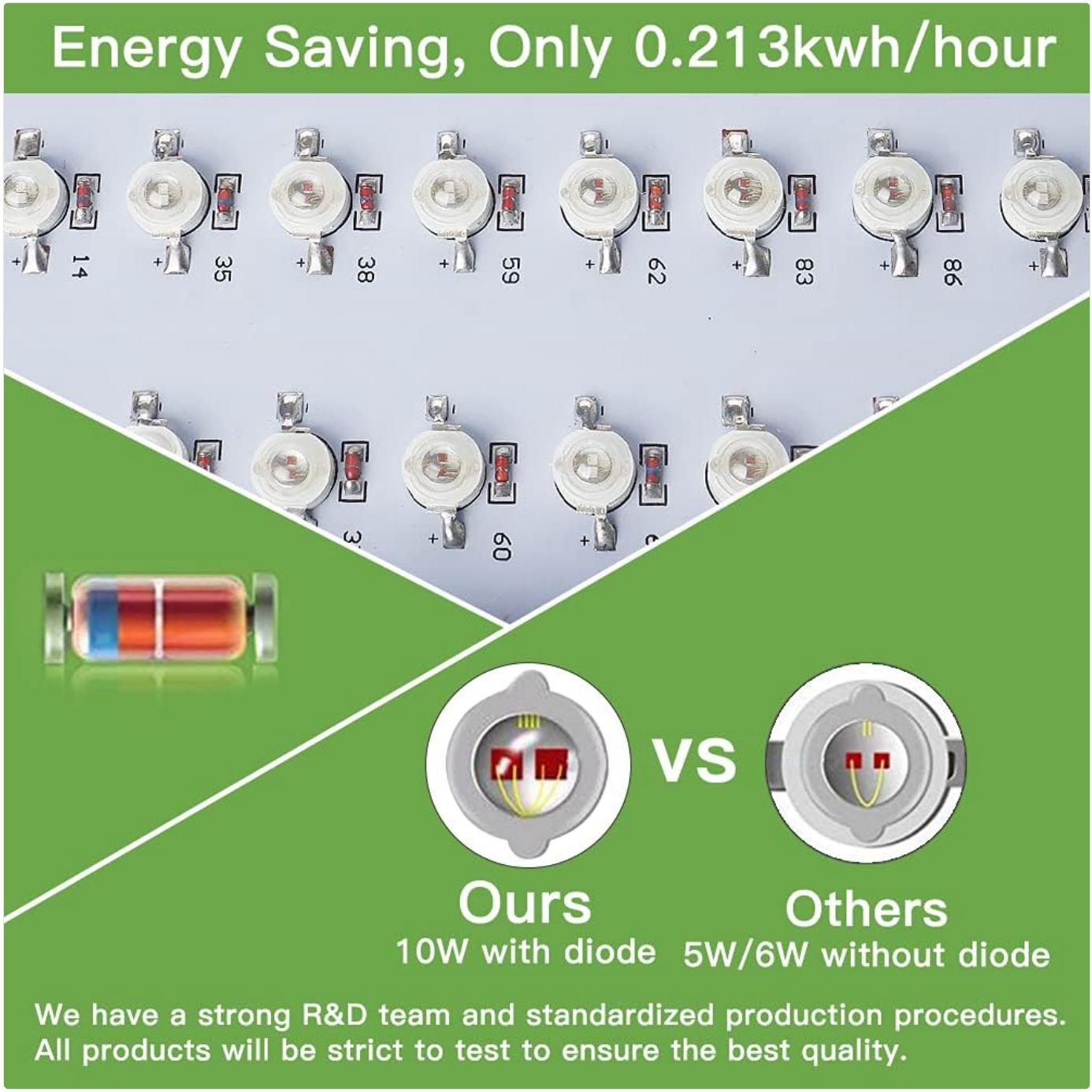

Figure 5.2: Comparison of LED diode technology, emphasizing the 10W diode with internal diode used in this product for enhanced efficiency and longevity.

6. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; loose connection; switch is OFF.	Check power cord connection; ensure outlet has power; turn Veg/Bloom switches ON.
Light output seems dim.	Only one switch (Veg or Bloom) is ON; dust accumulation on LEDs.	Turn both Veg and Bloom switches ON for full intensity; gently clean the LED surface.

Problem	Possible Cause	Solution
Fans are noisy or not working.	Dust buildup in fans; fan malfunction.	Clean fan vents; if issue persists, contact customer support.
Plants are showing signs of stress (e.g., bleaching, stretching).	Incorrect light distance; improper light spectrum for growth stage.	Adjust light height according to Section 4.2; ensure correct Veg/Bloom mode is selected for the plant's current stage.

7. Specifications

Feature	Detail
Brand	WAKYME
Model Number	FSZD-10
Power Source	Corded Electric
Voltage	120 Volts
Actual Power Consumption	213 Watts (replaces 900W HPS/MH)
Light Source Type	LED (120 PCS SMD LEDs)
Spectrum	Full Spectrum (Blue, Red, IR, UV, White)
Control	Double Switch (Veg/Bloom)
Heat Dissipation	Built-in aluminum substrate, 2 super big speed fans
Lifespan	100,000 hours
Product Dimensions	15.75 x 8.35 x 2.36 inches
Item Weight	5.77 pounds
UPC	680577483729

8. Warranty and Support

For warranty information, technical support, or any inquiries regarding your WAKYME 1200W LED Grow Light, please refer to the official WAKYME website or contact their customer service directly. Contact details are typically available on the product packaging or the manufacturer's official online presence.

Note: No official seller videos were available for inclusion in this manual.

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