

MegaDrive Linear Series



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MODEL MDL-400, MDL-600

MegaDrive Linear Series

Linear Series LED fixture for Greenhouses and High Bay Indoor Grow Operations

The MegaDrive Linear Series is specially designed for greenhouses and high bay indoor grow operations and cuts installation costs by up to 80%. The sleek linear LED fixture minimizes shadow effect and is completely water sealed. The central power supply design increases reliability and driver lifespan.

- High efficacy Osram LED diodes – up to 3.5 micromoles per joule
- Waterproof design with sealed lenses and connectors
- Turnkey design includes fixtures, power supplies, all electrical cables, connectors and hanging hardware
- Available in 400 and 600 watts
- Variable spectrum control and multiple spectrum options

Applications

Greenhouse and High Bay Indoor Grow Operations

- Perfect for long bench runs – Works with any bench layout or light level
- Simple installation or relocation - No power drops over the canopy
- Less heat and risk of water damage

 **80%** ↓
Cut installation costs by up to 80%

MegaDrive Centralized Power LED System

MegaDrive is a turnkey LED system that Remote power supply runs up to 13 fixtures from a single power supply.

No electronics in the fixtures – driver can be located outside the grow space

Single power drop for up to 80 fixtures.
Can be installed by unskilled labor.

Reduces heat in the grow space - Increases driver reliability

Power Options:

MDL-400 – 4 to 27 Fixtures
MDL-600 – 3 to 16 Fixtures
MDL-800 – 2 to 12 Fixtures

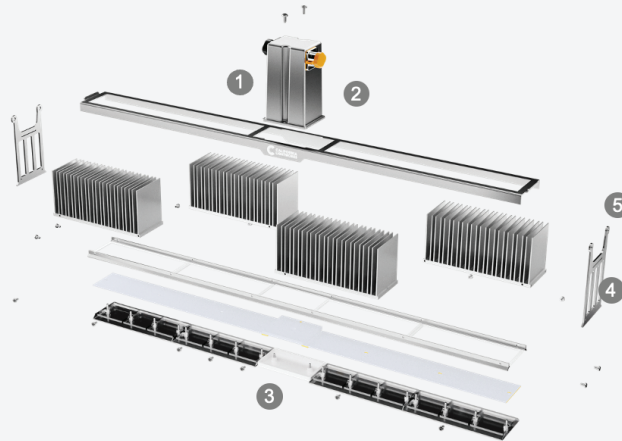


Explore how MegaDrive® can elevate your grow operation.
California LightWorks
7949 Deering Ave, Canoga Park, CA 91304
(800) 575-3475

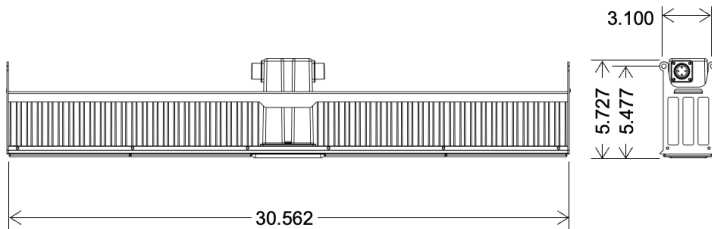
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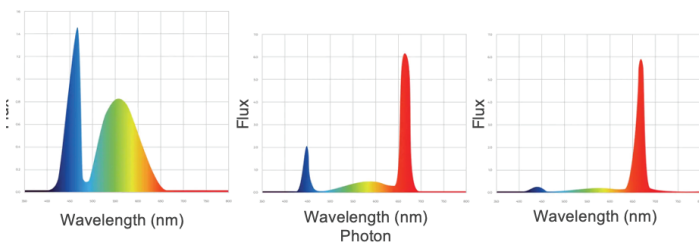
- 1 Water Sealed
- 2 No Drivers or Electronics in Fixtures
- 3 Slim design with Minimal Shadow Effect
- 4 Lightweight
- 5 Simple to install



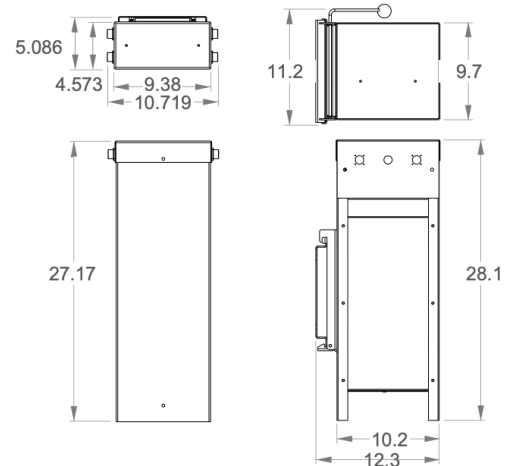
MegaDrive Linear 400 & 600



Model	MDL-400	MDL-600
Nominal Wattage	400W	600W
Operating Temp	0-40°C (32-107°F)	
Dimensions	30.5" X 3.1" X 5.4"	
Weight	10 LBS	
LED Lifetime Rating (L90)	>100,000 Hrs.	
Warranty	5 Years	
Thermal Management	Passive	
Dimming	0-100%	
Spectrum Control	2 channel 0-100%	
Light Output (PPF)	1,044 µmoles/s	1,850 µmoles/s
Efficacy	2.75 µmoles/j	3.6 µmoles/j
Heat Output	1365 BTU	2150 BTU
Fixtures Per MegaDrive	4 - 27	3 - 16
Safety Compliance	UL 8750, CAN/CSA-C22.2 No. 250.13	



MegaDrive® System



Model	MDP-3KW	MDP-10KW
Total Wattage	3000W	10,000W
Input Voltage	120-277V SP	220-480V
Maximum Current	48 A	
Chainable # of Fixtures	24	80
Power Factor	0.95	
Frequency	50-60 Hz	
Operating Temp	0-40°C (32-107°F)	
Dimensions	27" x 9.5" x 4.5"	32" x 10" x 10.5"
Weight	29.5 LBS	62-72 LBS
Warranty	5 Years	
Thermal Management	Active	
Heat Output	511 BTU	1705 BTU
Spectrum Control	2 Channel 0 100% - Dim to Off	
Data Connection	0-10V	
Service Life	50,000 Hours	
Safety Compliance	UL/CUL/CE	



hippo®

Crop: Leafy Greens (Lettuce)

Lighting Solution: California LightWorks
MegaDrive® LED System

Application: Automated, data-driven indoor
food cultivation



Case Study: Hippo Harvest
Pescadero, California, USA



Hippo Harvest Post MegaDrive Implementation Results:



Fully Automated Greenhouse
Operation powered by data-driven
robotics and LED lighting controls



Reduced Labor, Water & Fertilizer
Costs with automated greenhouse
systems



Increased Crop Yields and Plant
Health through precise spectrum
and light scheduling



10X Less Installation Cost
compared to individual light fixtures
— no power outlets over the
canopy or structural modifications
needed



Dynamic Two-Channel Spectrum
Control for optimal lighting under
all growing conditions



Rapid Expansion Capability with
scalable lighting and automation
infrastructure

About Hippo Harvest

Founded: 1932

Annual Propagation: Over 40 million plants

Facilities: On-site lab, greenhouse, fields,
packing & shipping

Overview

Hippo Harvest is pioneering a new era in greenhouse farming by combining cutting-edge robotics with advanced LED lighting. Based in Pescadero, California, this innovative prototype facility integrates automated plant transport, irrigation, pest control, and harvesting — reducing labor and input costs while improving crop quality and yield.

To support their high-efficiency, data-driven cultivation model, Hippo Harvest adopted California LightWorks' MegaDrive® LED lighting system. The centralized driver design removed fragile electronics and excess heat from the grow space, while low-profile fixtures minimized shadow effect and installation complexity.



The Growing Future

Hippo Harvest is already supplying Amazon Fresh and expanding their automated greenhouse model across Northern California. With the integration of MegaDrive lighting, they've created a cost-effective, sustainable, and scalable solution for the future of food production.



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NOURSE

Crop: Strawberries, Blackberries, Raspberries

Lighting Solution: California LightWorks
MegaDrive® LED System

Application: Propagation from tissue culture
to fully developed plants



**Case Study: Nourse Farms
Massachusetts, USA**

Nourse Farms Post MegaDrive Implementation Results:



40+ Million Plants Propagated
Annually using MegaDrive LEDs



100% Year-Round Production
enabled through precise light
scheduling and spectrum control



Up to 80% Installation Cost
Savings — no overhead power
drops or complex wiring required



Up to 27 Fixtures Controlled per
Power Unit, reducing hardware
and maintenance overhead



Slim, Low-Profile Fixtures allowed
better sunlight penetration and
improved energy efficiency



Rapid Expansion Capability with
movable fixtures and modular
zones for scalable growth

About Nourse Farms

Founded: 1932

Annual Propagation: Over 40 million plants

Facilities: On-site lab, greenhouse, fields,
packing & shipping

Overview

For over 90 years, Nourse Farms has been a leader in berry propagation, supplying premium-quality small fruit plants to commercial growers, retailers, and home gardeners across North America. To meet growing demand and ensure consistent, year-round production, Nourse Farms integrated the California LightWorks MegaDrive® LED system into their greenhouse operation.

The MegaDrive LEDs were installed without requiring structural modifications or overhead wiring. The system provides full-spectrum, adjustable lighting tailored to each growth stage, supporting optimal plant health and propagation efficiency.



The Growing Future

The MegaDrive system has given Nourse Farms the performance and adaptability needed to support high-volume berry production. With over 40 million plants propagated annually, Nourse Farms continues to expand with a lighting solution built for scale, efficiency, and crop quality.





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