



GLOBAL GARDEN[®]

2024 PRODUCT CATALOG

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Realizing the plant's full genetic expression is not just good business, it is a badge of honor that can only come when you do something you love. LOVE being contagious, Global Garden® set out to curate products that we feel help growers impactfully produce a cleaner, healthier plant, repeatedly, without sacrificing yield. We are on a global quest to source, develop, and deliver high value products and optimal solutions. ***Because the products we sell feed the plants we consume, providing the highest quality inputs means everything to us.***

The greatest validation we can have is a grower using one of our distributed brands, and seeing that increase in yield, realizing higher quality flower, or seeing an increase to their bottom line because of the reduction in a power bill due to more efficient technology. A garden can be born out of passion, or it can be born with an enterprising spirit. Either way, a LOT goes into it; time, sweat, money, but hopefully not tears. With people's livelihood in the balance, understanding these pain points can make all the difference between a successful harvest or a lost crop. Global Garden® is relentlessly focused on customer service. By doing our job right, you, the grower, can focus on growing not just beautiful plants, but your business.



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MEET OUR VENDORS



Dimlux Lighting LED and HID Grow Lights and Controllers
AB LightingLED Grow Lights and Controllers
AUVL, Ushio, PhilipsPremium HID Grow Lamps
SpotOn Quantum PAR Light Meter
Niwa Grow Hub+ Smart Environmental Controller and Sensors
HighDroGro Grow Tents and Grow Kits
Horizon Lift Automated Light Mover with App Control
HM Digital Water Testing Instruments and Meters
GrowMax Water Reverse Osmosis and Water Filtration
Linis Grow In-Line Catalytic Garden Hose Filter



Bionova Nutrients	Premium High Concentrate Nutrients and Additives
Green House Feeding	Premium Powdered Nutrients
Organitek	Full Spectrum Microbial Soil Additive
Grower's Ally	Organic Pest Control and Fungicide
Gard'nClean	Chlorine Dioxide Sanitization
AzaPro	Organic Integrated Pest Management
Cultiwool	Stone Wool Plugs, Blocks and Slabs
EvoCoir	Nitrogen Charged Coco Open Top Grow Bags
454 Bags	Storage Bags and Tote Liners for Cannabis
RediRoot	Premium Fabric Pots and Propagation Plugs



DIMLUX XTREME SERIES LED GROW LIGHTS

With this innovative LED fixture, Dimlux sets a benchmark for horticultural lighting.

With patented technology, advances in LED technology, and optimal thermal design, the Dimlux Xtreme Series LED will be the preferred option offering significant return on investment to cultivators. This adjustable PhytoVegSpec® grow spectrum combines full control over light quality (spectral tunability) and quantity (intensity/DLI) ensuring a uniform spread and even light distribution with extreme penetration into the canopy.

The Dimlux Xtreme Series LED produces ultra-high levels of PPFD evenly spread over a given grow area (fixture level dependent), with a full spectrum producing consistently high quality & high yield indoor crops.

The Dimlux Xtreme Series LED can be dimmed without losing efficiency. The spectrum and output power can be programmed depending on the time of day and the growth stage of the crop.

Accessory RGB LEDs can be used as condition indicators when paired with Dimlux sensors - 65k colors available. In cooperation with the internal radar proximity sensor (Doppler) the green work light can automatically be switched on during nighttime mode.

PRODUCT SPECIFICATIONS

Light Source	LED
AC Input Voltage	120-277V AC, 50/60Hz
Beam Angle	90° × 120°
Optics	Patented Deep Penetration Ultra High Transmittance Lens
Auxiliary Light	Patented Light Pipe Multi Color 65k
Proximity sensor	Doppler Radar
Mounting Height	(2-3 ft) Depending on chosen intensity
Thermal Management	Passive
Max. Ambient Temp.	105°F / 40°C
Control	By Maxi Controller or Internal Controller
Smartports (3x)	For Dimlux Sensors & Interlink Cables
Spectrum & GUI Display	1.54" 65k Color (IPS)
Total Harmonic Distortion (THD)	< 10%
Lifetime L90 (Q90)	> 50,000h
IP Rating	IP65
Certifications	CE, UL 8800, UL 1598 Wet Location, DLC
Warranty	5 Year Standard

GG-600024	Dimlux Xtreme Series LED Fixture - 500w	\$1,095.00
GG-600025	Dimlux Xtreme Series LED Fixture - 500w + Far-Red (NIR), 120-277V	\$1,095.00
GG-600026	Dimlux Xtreme Series LED Fixture - 750w	\$1,495.00
GG-600027	Dimlux Xtreme Series LED Fixture - 750w + Far-Red (NIR), 120-277V	\$1,495.00
GG-600028	Dimlux Xtreme Series LED Fixture - 1000w	\$1,995.00
GG-600029	Dimlux Xtreme Series LED Fixture - 1000w + Far-Red (NIR), 120-277V	\$1,995.00

XTREME SERIES 500W LED

AC Input Power	540w @ 240V AC
Dimensions (L x W x H)	32.8" x 31.9" x 2.2"

Adjustable PhytoVegSpec® Indoor

Light Output (PPF)	1500 $\mu\text{mol/s}$
System Efficacy	2.81 $\mu\text{mol/J}$ @ 240V

Adjustable PhytoVegSpec® +Far-Red (NIR) Indoor

Light Output (PPF)	1420 $\mu\text{mol/s}$
System Efficacy	2.67 $\mu\text{mol/J}$ @ 240V

**XTREME SERIES 750W LED**

AC Input Power	799w @ 240V AC
Dimensions (L x W x H)	46.9" x 42.9" x 2.2"

Adjustable PhytoVegSpec® Indoor

Light Output (PPF)	2276 $\mu\text{mol/s}$
System Efficacy	2.85 $\mu\text{mol/J}$ @ 240V

Adjustable PhytoVegSpec® +Far-Red (NIR) Indoor

Light Output (PPF)	2159 $\mu\text{mol/s}$
System Efficacy	2.7 $\mu\text{mol/J}$ @ 240V

**XTREME SERIES 1000W LED**

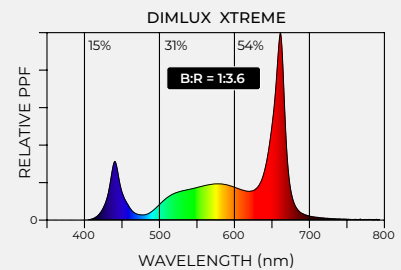
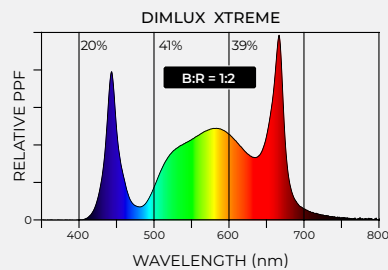
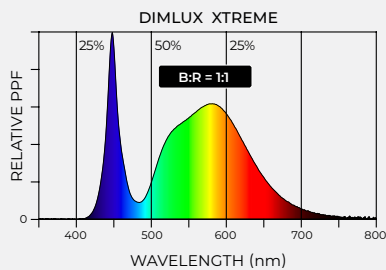
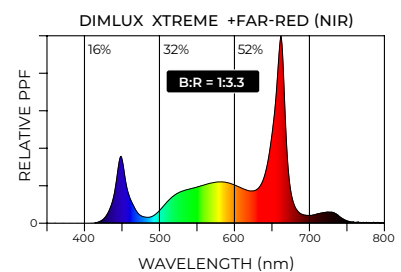
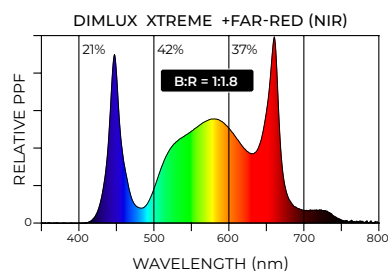
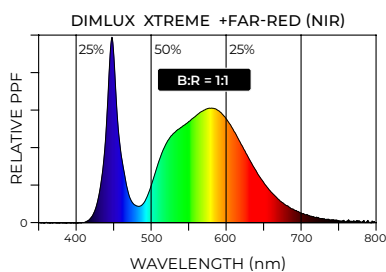
AC Input Power	1065w @ 240V AC
Dimensions (L x W x H)	46.9" x 42.9" x 2.2"

Adjustable PhytoVegSpec® Indoor

Light Output (PPF)	3110 $\mu\text{mol/s}$
System Efficacy	2.92 $\mu\text{mol/J}$ @ 240V

Adjustable PhytoVegSpec® +Far-Red (NIR) Indoor

Light Output (PPF)	2879 $\mu\text{mol/s}$
System Efficacy	2.7 $\mu\text{mol/J}$ @ 240V

**PhytoVegSpec® Indoor****PhytoVegSpec® +Far-Red (NIR) Indoor**



DIMLUX XTREME SERIES NIR + UV-A SUPPLEMENTAL GROW LIGHT

These add on bars should be used in conjunction with the Dimlux Xtreme Series LED fixtures. The 70W add-on bar is suitable for use with the 500W fixture and the 140W add-on bar is suitable for use with the 750W and 1000W fixtures.

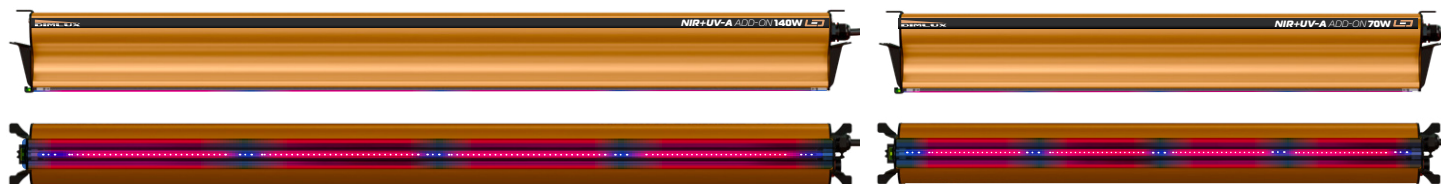
Can be used to accelerate the flower setting on Dimlux LED fixtures. The add-on bars can also help boost photosynthesis (higher DLI). Increases resistance to fungi, and other pathogens. Increases resin production which brings out flavonoids and terpenes.

PRODUCT SPECIFICATIONS

MODEL	XTREME NIR+UV-A 70W	XTREME NIR+UV-A 140W
Light Source	70W LED Dual Band	140W LED Dual Band
FAR-RED (670-760nm) Photon Flux	123 $\mu\text{mol/s}$	247 $\mu\text{mol/s}$
UV-A (370-405nm) Photon Flux	31 $\mu\text{mol/s}$	62 $\mu\text{mol/s}$
Total Photon Efficacy (350-800nm)	2.91 $\mu\text{mol/J @ 230-240V AC}$	2.95 $\mu\text{mol/J @ 230-240V AC}$
AC Input Power	72.5W @ 230V AC	156.1W @ 230V AC
AC Input Voltage	120-277V AC, 50/60Hz	120-277V AC, 50/60Hz
AC Input Current	0.65A @120V / 0.27A @277V	1.3A @120V / 0.56A @277V
Optics	Patented Deep Penetration Ultra High Transmittance Lens	
Auxiliary Light	Patented Light Pipe Multi Color 65k	
Rec. Hanging Height	4' x 4' min. 2'	5' x 5' min. 2.5'
Rec. Hanging Height	40" x 40" min. 20"	4' x 4' min. 2'
Thermal Management	Passive	
Operating Temperature	0-40°C / 32-107°F (non-condensing)	
Total Harmonic Distortion (THD)	< 10%	
Lifetime L90	> 50,000h	
IP Rating	IP50	
Certifications	CE, UL 8800, UL 1598 Wet Location	
Photobiological Safety	IEC 62471 - Risk Group 2	
CAUTION	UV Emitted from these products	
Warranty	3 Year Standard	

ADVANTAGE OF ADD-ONS

Independent control of the NIR and UV-A channels makes it possible to mix the right amount of grow/control light at any time in the grow cycle. UV-A can be gradually increased as the plant progresses through its growing phase. NIR can be added during the flowering phase, to be used as a photosynthesis booster along with red. Also, by adding NIR photons at the beginning of the night, the Phytochrome far-red can be converted more quickly to its inactive form Phytochrome red. As a result, the plant will "fall asleep" faster, which increasing photosynthesis during the day and improves metabolism during the night.



GG-600650	Dimlux Xtreme Series Far-Red (NIR) + UV-A Add-On Bar, 70w	\$279.95
GG-600655	Dimlux Xtreme Series Far-Red (NIR) + UV-A Add-On Bar, 140w	\$359.95

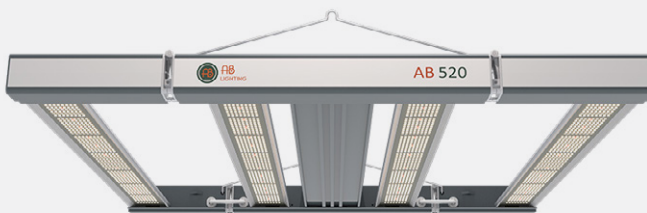
AB SERIES LED GROW LIGHTS

After years of lab and real-world farm application testing, AB Lighting has developed what is understood to be the most efficient and well-rounded full spectrum. Included is enough blue and red light to help plants thrive in both the vegetative and flower stages respectively ensuring a plant's maximum potential.

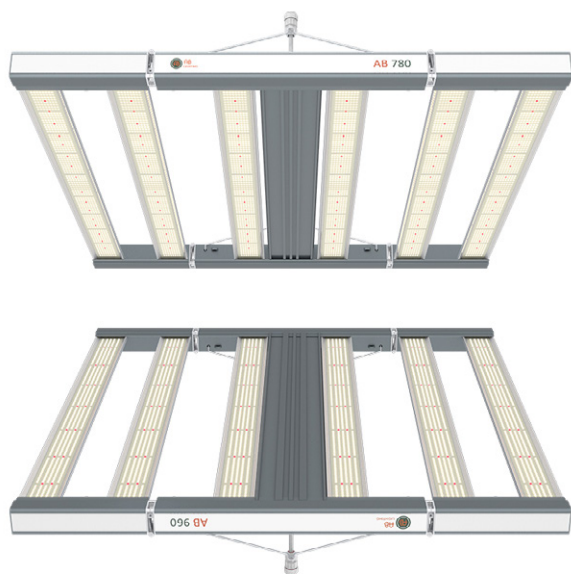
Certifications: DLC, ETL, CE, & IP65 - 5 Year Warranty

AB SERIES AB520 LED - 120-277V

Input Power	520w
Dimensions (L x W x H)	33.5" x 33.5" x 2.2"
Mounting Height	12-14 inches
Light Output (PPF)	1274 $\mu\text{mol/s}$ (400-700nm)
System Efficacy (PAR)	2.45 $\mu\text{mol/J}$ (400-700nm)
Light Output (PBF)	1300 $\mu\text{mol/s}$ (280-800nm)
System Efficacy (PBAR)	2.50 $\mu\text{mol/J}$ (280-800nm)



The AB520 is designed with a light spectrum that produces more blue light to help plants maximize their vegetative growth. Healthier veg plants lead to heavier-producing flower plants. All AB Lighting fixtures are designed with patented passive cooling dissipation heat sinks. This allows the fixture to remain extremely cool to the touch. Since the main enemy of LED chips is heat, this fixture will last a very long time. The AB520 has a potentiometer (dial) that allows the grower to control the light intensity with 5 different levels ranging from 40% to 100%. This daisy-chainable fixture can be controlled by a master controller.



AB SERIES AB780 PRO LED - 120-277V

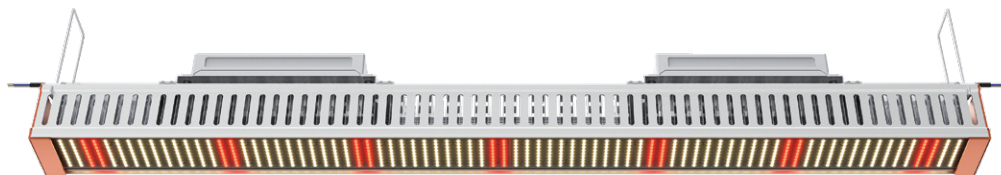
Input Power	780w
Dimensions (L x W x H)	41.7" x 42.2" x 2.4"
Mounting Height	6-8 inches
Light Output (PPF)	2068 $\mu\text{mol/s}$ (400-700nm)
System Efficacy (PAR)	2.68 $\mu\text{mol/J}$ (400-700nm)
Light Output (PBF)	2115 $\mu\text{mol/s}$ (280-800nm)
System Efficacy (PBAR)	2.75 $\mu\text{mol/J}$ (280-800nm)

AB SERIES AB960 LED - 120-277V

Input Power	960w
Dimensions (L x W x H)	41.7" x 42.2" x 2.4"
Mounting Height	6-8 inches
Light Output (PPF)	2495 $\mu\text{mol/s}$ (400-700nm)
System Efficacy (PAR)	2.62 $\mu\text{mol/J}$ (400-700nm)
Light Output (PBF)	2552 $\mu\text{mol/s}$ (280-800nm)
System Efficacy (PBAR)	2.68 $\mu\text{mol/J}$ (280-800nm)

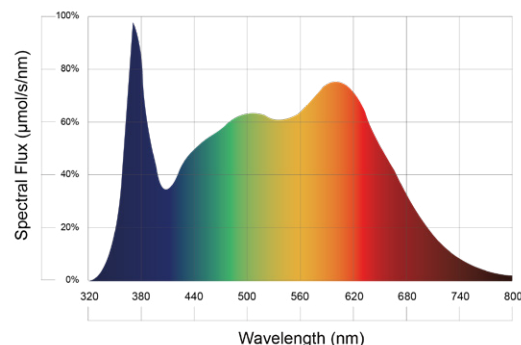
The AB780 and AB960 are designed with a light spectrum that produces more red light to help plants maximize their flowering growth. This increase in red intensity yields a more abundant flower. All AB Lighting fixtures are designed with patented passive cooling dissipation heat sinks. This allows the fixture to remain extremely cool to the touch. Since the main enemy of LED emitters is heat, this fixture will last a very long time. Both the AB780 and AB960 have a potentiometer (dial) that allows the grower to control the light intensity with 5 different levels ranging from 40% to 100%. This daisy-chainable fixture can be controlled by a master controller.

GG-600500	AB Lighting AB Series AB520 LED Fixture - 520w, 120-277V	\$799.00
GG-600505	AB Lighting AB Series AB780 Pro LED Fixture - 780w, 120-277V	\$1,099.00
GG-600510	AB Lighting AB Series AB960 LED Fixture - 960w, 120-277V	\$1,199.00

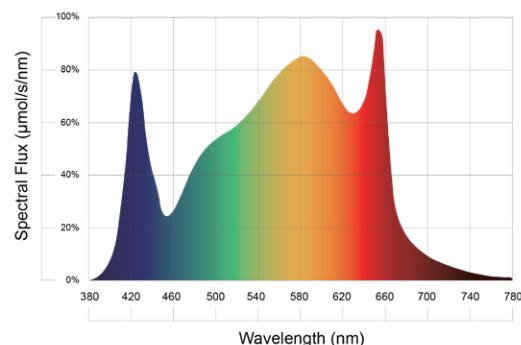
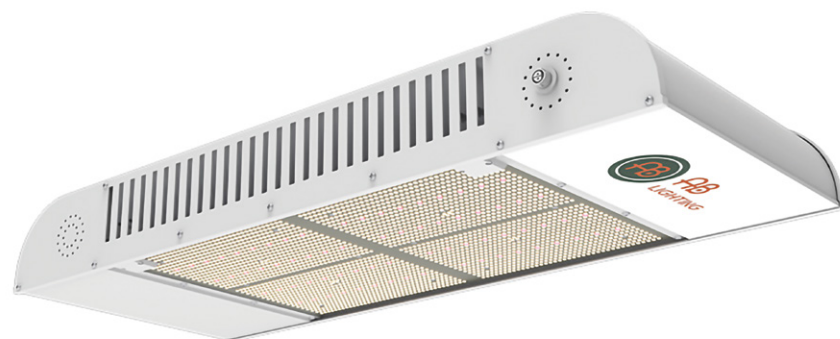


AB LIGHTING TL SERIES LINEAR GREENHOUSE LIGHT

The bar-shaped TL series is an LED designed for greenhouses to minimize shading during daylight hours yet provide enough supplemental light during shorter winter days. The TL series is equipped with a full spectrum intended to mimic the sun's spectra. The "chimney" heat dissipation design allows air to flow through the heatsink passively allowing the fixtures to run cool. The TL330 puts out a PPF of 858 $\mu\text{mol/s}$ and the TL660 delivers a PPF of 1716 $\mu\text{mol/s}$. Both fixtures run on 120-277v.



GG-600520	AB Lighting TL Series TL330 LED Light Bar - 330w, 120-277V	\$459.00
GG-600525	AB Lighting TL Series TL330 Pro LED Light Bar - 330w, 120-277V	\$529.00
GG-600530	AB Lighting TL Series TL660 LED Light Bar - 660w, 120-277V	\$899.00



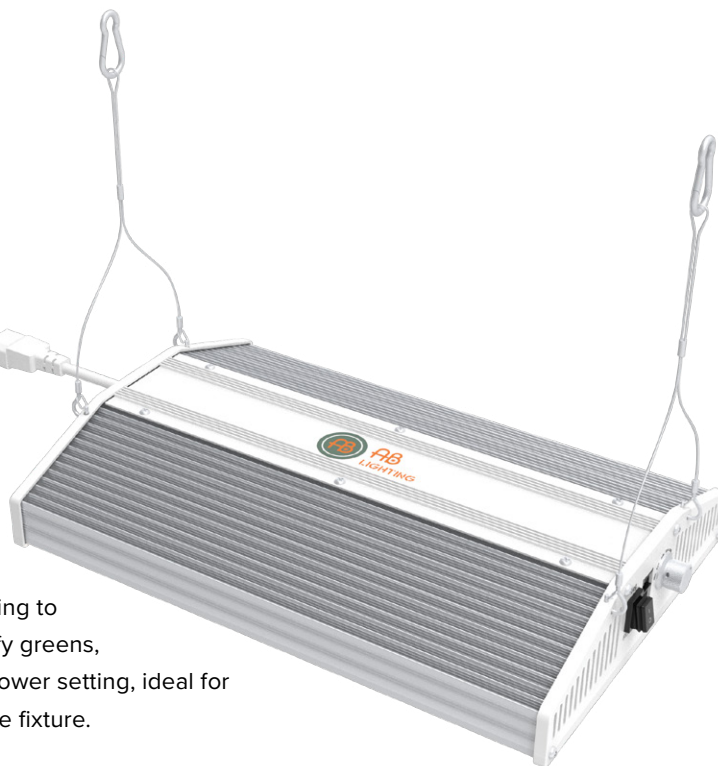
AB LIGHTING TL SERIES 840W - 1:1 HPS REPLACEMENT

The TL840 designed for your greenhouse and can be used indoors too. It's designed to be a one-to-one replacement for HPS fixtures while consuming less power. Like all fixtures at AB Lighting, the TL840 is designed with heat sinks and with passive heat dissipation, making it much cooler than many competitors. The TL840W has a full spectrum, 0-10v dimming functionality, puts out a PPF of 2184 $\mu\text{mol/s}$, and comes with an input power range of 120-277v. With the TL840, you'll never have to replace a lamp again!

Input Power	840w
Dimensions (L x W x H)	33" x 14" x 7"
Mounting Height	4-6 feet
Light Output (PPF)	2038 $\mu\text{mol/s}$
System Efficacy	2.6 $\mu\text{mol/J}$
Certifications	DLC, ETL, CE, & IP66
Warranty	5 Year

GG-600515	AB Lighting TL Series TL840 LED Fixture - 840w, 120-277V	\$1,099.00
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AB LIGHTING TL SERIES – FOR THE HOME/HOBBY GROWER



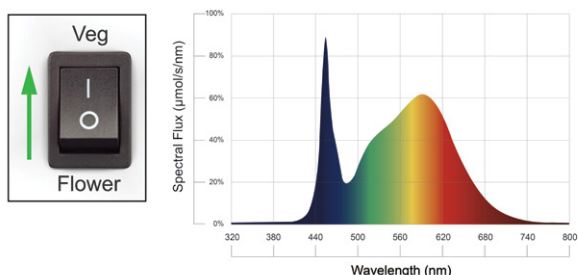
This TL series is designed for the home grower/hobbyist wanting to grow anything from medicinal plants to herbs, vegetables, leafy greens, etc. These affordable lower-wattage fixtures have a veg and flower setting, ideal for growing plants from seed/clone through flower under the same fixture.

As is standard with AB Lighting, these fixtures have heat sinks with passive cooling. They are daisy-chainable and can be controlled with a master controller. These small easy-to-use fixtures are small enough to be used in a kitchen or a small grow tent.

With an efficacy of 2.3 $\mu\text{mol/s/J}$, they come in 100W, 150W, 200W, and 250W. These fixtures operate on 120-240V.

VEG MODE

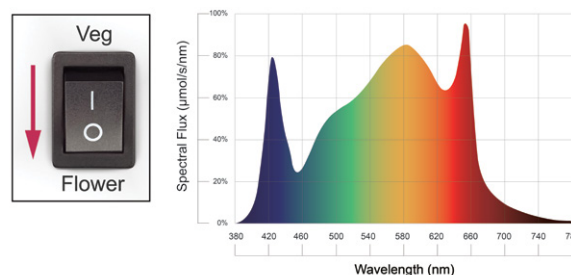
Toggle the switch to the “I” position to change the light to Veg Mode.



MODE FUNCTION: The Veg Mode light spectrum has a higher blue-light ratio that keeps plants compact and helps to promote root, stem, and leaf growth.

FLOWER MODE

Toggle the switch to the “O” position to change the light to Flower Mode.



MODE FUNCTION: The Flower Mode light spectrum has a higher red-light ratio which helps promote flower/bud formation.

GG-600550	AB Lighting LED Top Light - 100w, 120-240V	\$149.00
GG-600555	AB Lighting LED Top Light - 150w, 120-240V	\$199.00
GG-600560	AB Lighting LED Top Light - 200w, 120-240V	\$249.00
GG-600565	AB Lighting LED Top Light - 250w, 120-240V	\$279.00

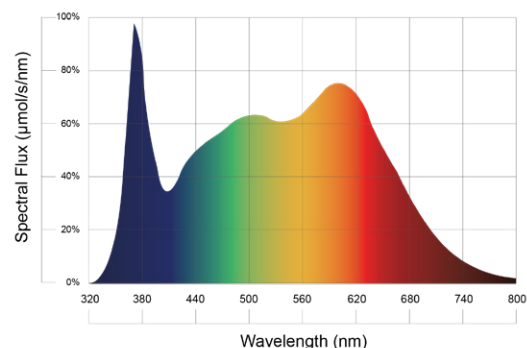


AB LIGHTING HORTI-TUBE CLONE LIGHT 28W

The AB Lighting Horti-Tube 28W is essentially a clone light designed to grow seedlings, clones, or herbs.

These transparent four-foot-long tubes are daisy-chainable (up to 10 fixtures) on one single power source. Because these emit virtually no heat they can be hung directly over the crop.

The Horti Tube 28W boasts an impressive 2.1 $\mu\text{mol/s/J}$ efficacy. These fixtures operate on 120v.



| GG-600570 AB Lighting LED Horti-Tube Clone Light - 28w, 120-240V \$39.00

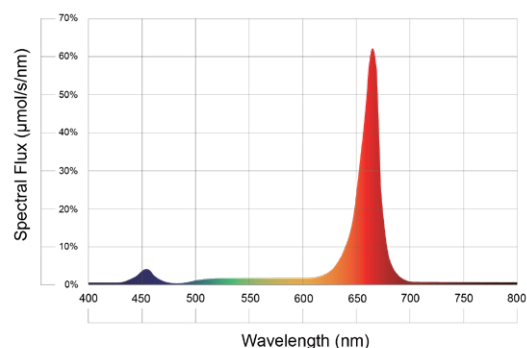


AB LIGHTING INTER-LIGHT 200W

With a 270° beam angle, the AB Lighting Inter-light 200W is designed for use in the middle or thick of the crop that often will have light blocked from a thick canopy.

This highly efficient fixture has a protective cover and great heat dissipation that allows the grower to maximize growth for the entire plant.

The inter-light puts out a PPF of 600 $\mu\text{mol/s}$ and has a power range of 120-240v.



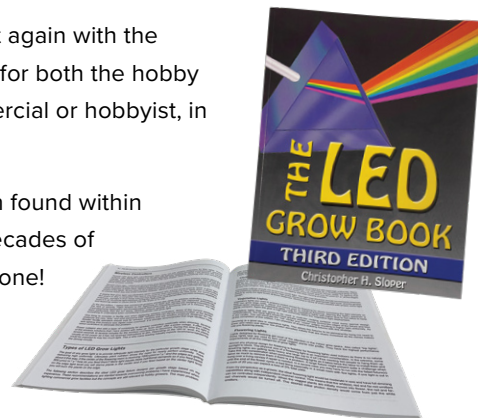
| GG-600545 AB Lighting LED Inter-Light - 200w, 120-277V, 8ft \$399.00

THE LED GROW BOOK - THIRD EDITION, BY CHRISTOPHER SLOPER

After the amazing success of the first two editions, author Christopher Sloper has done it again with the publication of the third edition of The LED Grow Book. He offers his latest tips and tricks for both the hobby and commercial grower. The LED Grow Book: Third Edition will assist any grower, commercial or hobbyist, in making the proper LED grow light selection for their needs.

Sloper's main goal is to properly educate growers and cut through the inaccuracies often found within the indoor gardening community. With a bachelor's degree in Chemistry, an MBA, and decades of practical experience, Sloper understands what is important to the grower, because he is one!

| GG-700000 The LED Grow Book by Christopher Sloper \$19.95





DIMLUX ULTRA OPTICS 98 ADD-ON REFLECTOR

LONG SIDE, SHORT SIDE

This reflector is available in models for the short side or long side of Dimlux lighting fixtures. Its Miro 95 hammered mirrors provide 95% reflective efficiency. By adding this reflector, users minimize wall losses in their lighting systems and create greater lighting efficiency. Growers should install both the short and long side reflectors on corner and wall lights for optimum light efficiency and cost savings. Using these reflectors can increase the PAR at the edge of the canopy by up to 30%.

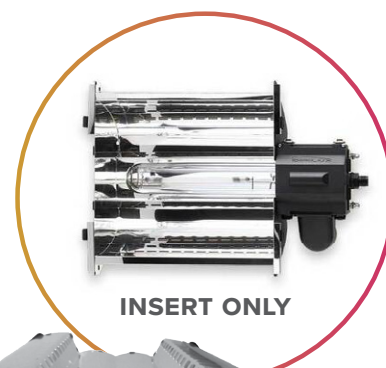
GG-600011	Dimlux Ultra Optics Add-On Reflector Long Side (2)	\$34.95
GG-600012	Dimlux Ultra Optics Add-On Reflector Short Side (2)	\$34.95

DIMLUX RECOMMENDS REPLACING YOUR REFLECTORS EVERY 2 YEARS.

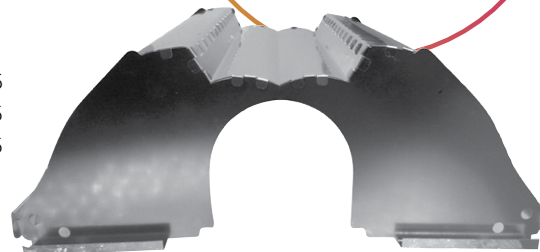
ULTRA OPTICS 98 MIRO SILVER REPLACEMENT REFLECTOR

This replacement reflector is available in models designed for 315W, 630W, and 1000W Dimlux light fixtures. The ventilated reflector is made of Miro Silver Mirrors that utilizes the Single Bounce Clear Sight (SBCS) principle. These features result in industry leading 98% reflective efficiency and optimal bulb temperature — more light and less heat.

GG-600013	Dimlux Ultra Optics Replacement Reflector - 1000w	\$69.95
GG-600014	Dimlux Ultra Optics Replacement Reflector - 630w	\$64.95
GG-600015	Dimlux Ultra Optics Replacement Reflector - 315w	\$64.95



INSERT ONLY



NOW EQUIPPED WITH THE NEW **DXO** 1250W LAMP*!

(California Spec)



CALIFORNIA ENERGY EFFICIENCY CODE COMPLIANT!

DIMLUX EXPERT SERIES MKII 1000W DE HPS GROW LIGHT

The Dimlux Expert Series MKII 1000w DE is equipped with the NEW Dimlux DXO 1000W / 1250W lamp (California Spec), which provides the most intense light available at 2200 / 2780 $\mu\text{mol/s}$. When paired with the included Ultra Optics 98 reflector that is 98% reflective Miro Silver, the fixture produces a whopping **PPF of 2156 $\mu\text{mol/s}$ at 1000W and PPE of 2.1 $\mu\text{mol/J}$** . This light has eight dimming levels including an overdrive feature. Compared to other HPS fixtures, it produces more PAR light with the same power consumption, leading to INCREASED YIELDS.

The Ultra Optics 98 reflector was designed on the Single Bounce Clear Sight (SBCS) principle. This means EVERY photon will only "bounce" once with the reflector before heading onto your canopy. This provides longer lamp life and a cooler operating temperature.

A 50mm socket on top of the hood allows air to passively rise above the fixture that can also be extracted with an exhaust fan. This leads to LOWER COOLING COSTS.



PRODUCT SPECIFICATIONS

Lamp	DXO California Spec 1250W 2780 $\mu\text{mol/s}$ 2.23 $\mu\text{mol/J}$ 400V DE
System Output (PPF)	2724 $\mu\text{mol/s}$ @1250W
System Output (PPF)	2156 $\mu\text{mol/s}$ @1000W
System Efficacy (PPE)	2.12 $\mu\text{mol/J}$ @1150-1250W
System Efficacy (PPE)	2.1 $\mu\text{mol/J}$ @1000W
Voltage	277V \pm 10V
Input Power @100%	1035W
Input Current @100%	3.7A
Input Power @boost 1250W	1290W
Input Current @boost 1250W	4.7A
Input Frequency	50/60Hz
Power Factor	0.99
Ultra high frequency (UHF)	Yes
Controller	Maxi Controller
Dimensions	26.5" x 10.8" x 5.1" (625mm x 275mm x 130mm)
Weight	13.88lbs (6.3kg)



GG-600016	Dimlux Expert Series MKII DE HPS Fixture - 1000w, 240V	\$399.95
GG-600017	Dimlux Expert Series MKII DE HPS Fixture - 1000w, 277V	\$499.95

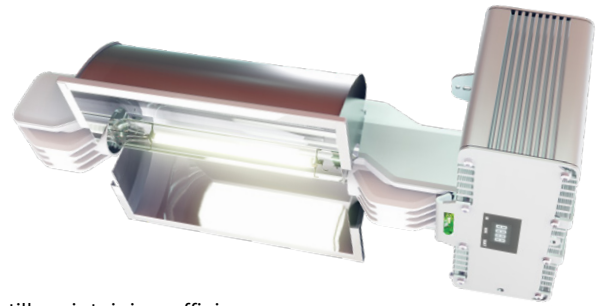
**DXO CA Spec Lamp is installed only in the 277V MKII. The 240V MKII is still equipped with the Philips GreenPower Xtra 1000W Lamp. (2107 $\mu\text{mol/s}$)*

DIMLUX PRO SERIES 1000W DE HPS GROW LIGHT

CALIFORNIA ENERGY EFFICIENCY CODE COMPLIANT!

The Dimlux Pro Series 1000w fixture offers **2,016 $\mu\text{mol/s}$ (1.95 $\mu\text{mol/J}$) at 1000w and 2,339 $\mu\text{mol/s}$ (1.96 $\mu\text{mol/J}$) when boosted to 1150w.**

The Pro Series Light can be dimmed to 50% and boosted up to 115% while still maintaining efficiency code compliance. Manual power settings: 500, 600, 700, 800, 900, 1000, 1075 and 1150w. The Pro Series also offers a 4-character digital status display with scrolling text.



CLOSED BALLAST WITH GEO-MEMBRANE

The Dimlux Pro Series 1000w Grow Light is ideal for use indoors and in greenhouses. The Pro Fixture has a closed ballast with a geo-membrane to help protect from moisture in environments with high humidity.

The white color of the fixture also helps prevent overheating the ballast and aids in reflecting more usable light to the canopy instead of absorbing it.

VERTICAL BALLAST

The ballast is mounted vertically to decrease shadow cast on the canopy. Each fixture also comes standard with a built in level indicator. Because the illuminated surface in a greenhouse is considerably more extensive than indoor grows, leveling the Pro Series is paramount for good uniformity and preventing shadows.

VOLTAGE	240V	277V
Input Power @100%:	1035w	1032w
Input Current @100%:	4.5A	3.7A
Input Power @Boost:	1242w	1187w
Input Current @Boost:	5.4A	4.25A
Input Frequency:	50/60Hz	
Power Factor:	> 0.95	
System PPF @1000w:	2016 $\mu\text{mol/s}$	2016 $\mu\text{mol/s}$
System PPE @1000w:	1.95 $\mu\text{mol/J}$	1.95 $\mu\text{mol/J}$
System PPF @1150w:	2339 $\mu\text{mol/s}$	2339 $\mu\text{mol/s}$
System PPE @1150w:	1.96 $\mu\text{mol/J}$	1.97 $\mu\text{mol/J}$
Ultra High Frequency (UHF):	Yes	
Controller (by WiFi):	Maxi Controller	
Measurements:	21.2" x 9.8" x 4.5"	
Weight:	9 lbs	
Power Cord:	13' NEMA 6-15P	13' NEMA L7-15P

PROTECTIVE MAGNETIC LAMP HOLDER CAPS

A new Dimlux design, these magnetic caps prevent touching the lamp holder when the lamp is hot. It is both an electrical and fire safety measure. It also assures the lamp holder is properly closed when the caps are installed.

ULTRA REFLECTIVE

This greenhouse fixture is also equipped with Dimlux's passively cooled Ultra Optics Reflector to ensure optimum lamp temperature and the highest light output. The reflector has a Miro 95 (99.99 aluminum) finish. Unlike the common Miro Silver reflector on other grow lights, the Miro 95 reflector prevents deterioration in high humidity when scratched.

This reflector uses the same Single Bounce Clear Sight (SBCS) principle as other Dimlux HID fixtures. The SBCS design ensures photons strike the reflector only once, before they are bounced out and directed to your canopy. This principle also aids lamp longevity because the light is NOT directed back through the lamp's arc tube causing premature degradation.



GG-600020	Dimlux Pro Series DE HPS Fixture - 1000w, 240V	\$399.95
GG-600021	Dimlux Pro Series DE HPS Fixture - 1000w, 277V	\$399.95

HIGH PRESSURE SODIUM LAMPS



LAMP TYPE	HPS	HPS	HPS	HPS	HPS	HPS
WATTAGE	1000 / 1250W	1000W	1000W	1000W	1000W	1000W
OUTPUT (PPF)	2200 / 2780 $\mu\text{mol/s}$	2100 $\mu\text{mol/s}$	2000 $\mu\text{mol/s}$	2150 $\mu\text{mol/s}$	2120 $\mu\text{mol/s}$	2100 $\mu\text{mol/s}$
AVG. LIFE (HRS)	10,000	10,000	10,000	10,000	10,000	10,000
BURN POSITION	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
LAMP VOLTAGE	230V	230V	230V	230V	230V	230V
WARM UP TIME	5 MINS	7 MINS	7 MINS	10 MINS	10 MINS	5 MINS
RE-IGNITION TIME	2 MINS	2 MINS	2 MINS	5 MINS	5 MINS	2 MINS
BALLAST TYPE	HPS, ELECTRONIC	HPS, ELECTRONIC	HPS, ELECTRONIC	HPS, ELECTRONIC	HPS, ELECTRONIC	HPS, ELECTRONIC

GG-590000	Dimlux DXO DE Super HPS Lamp (CA Spec) - 1000/1250w, 2780 μmol	\$149.95
GG-590020	Ushio HiLUX GRO Pro Plus DE HPS Lamp - 1000w, 2100 μmol	\$149.95
GG-590025	Ushio HiLUX GRO Opti-Red DE HPS Lamp - 1000w, 2000 μmol	\$139.95
GG-600201	Philips GreenPower Xtra DE Lamp - 1000w (5 trays of 6 ea.)	\$149.95 ea
GG-600200	Philips Agro Plus DE Lamp - 1000w	\$149.95
GG-590030	AUVL Grow Green DE HPS Lamp - 1000w, 2100 μmol	\$99.95

CERAMIC METAL HALIDE & METAL HALIDE LAMPS



LAMP TYPE	CMH	CMH	CMH	CMH	MH	MH
WATTAGE	315W	315W	315W	315W	1000W	1000W
OUTPUT (PPF)	580 $\mu\text{mol/s}$	580 $\mu\text{mol/s}$	599 $\mu\text{mol/s}$	599 $\mu\text{mol/s}$	1800 $\mu\text{mol/s}$	1800 $\mu\text{mol/s}$
AVG. LIFE (HRS)	15,000	15,000	20,000	20,000	6,000	6,000
BURN POSITION	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	HORIZONTAL	HORIZONTAL
LAMP VOLTAGE	100V	100V	100V	100V	230V	230V
WARM UP TIME	2 MINS	2 MINS	2 MINS	2 MINS	3 MINS	3 MINS
RE-IGNITION TIME	10 MINS	10 MINS	10 MINS	10 MINS	10 MINS	10 MINS
BALLAST TYPE	CMH, ELECTRONIC	CMH, ELECTRONIC	CMH, ELECTRONIC	CMH, ELECTRONIC	MH, ELECTRONIC	MH, ELECTRONIC

GG-600009	Dimlux CMH Lamp - 315w, 3100K
GG-600010	Dimlux CMH Lamp - 315w, 4100K
GG-600202	Philips GreenPower CMH Lamp - 315w, 3100K
GG-600203	Philips Master Color CMH Lamp - 315w, 4200K
GG-590035	AUVL Grow Green DE Metal Halide Lamp - 1000w, 5500K
GG-600300	BLV Horturion DE Metal Halide Lamp - 1000w, 5500K

\$74.95	Closeout price.
\$74.95	While supplies last.
\$108.95	
\$108.95	
\$149.95	
\$169.95	

SPOTON QUANTUM PAR LIGHT METER

Provides accurate PAR light readings from ANY light source:

- Full sun to full shade indoors or outdoors.
- Artificial light sources (LED, High Pressure Sodium, Metal Halide, Florescent...).

Three modes of operation:

- Instant Spot Measurement mode for PAR light readings.
- Scan mode for quickly averaging PAR over an area.
- DLI mode shows Daily Light Integral on the LCD (no computer needed).

Compact and easy to use.

Water and impact resistant.

Integral mounting plate for: stand, stake, lanyard & hanger hole, and magnet mounts.

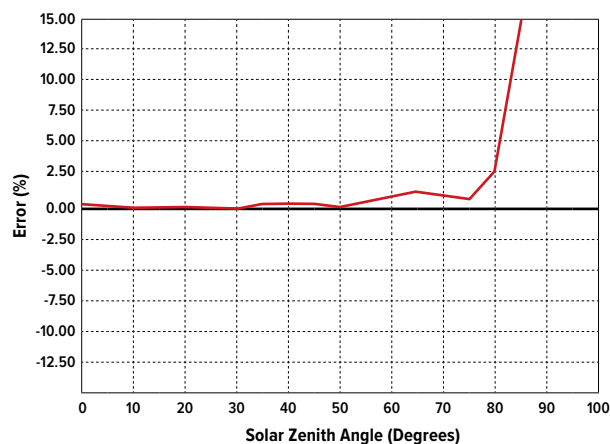
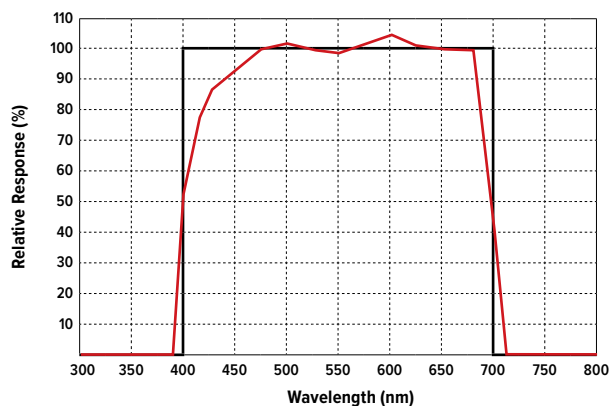
1/4"-20 threaded hole for mounting on camera tripods and stands.

Includes battery, sensor cover, and soft carrying case.



RESPONSE DATA

— Meter Response — Ideal Response



LIGHT METER SPECIFICATIONS

Range	PAR Light 0.0 to 6,500 $\mu\text{mol m}^{-2} \text{s}^{-1}$ DLI (Daily Light Integral) 0.0 to 560.0 moles $\text{m}^{-2} \text{day}^{-1}$
Display Resolution	PAR Light 0.1 $\mu\text{mol m}^{-2} \text{s}^{-1}$ from 0.0 to 99.9 1 $\mu\text{mol m}^{-2} \text{s}^{-1}$ from 100 to 6,500 DLI 0.1 moles $\text{m}^{-2} \text{day}^{-1}$
Accuracy	+/- 5% (each meter is calibrated to a NIST traceable light sensor on a broad-spectrum light source)
Azimuth Error	+/- 1% over 360°
Daily Light Integral (DLI)	Calculated continuously from light readings every 3 minutes
Water Resistant	IP-65 rated for use in rain, irrigation, and condensing environments (do not submerge)
Operating Environment	32-130°F(0-55°C) with 0-100% RH (condensation ok)
Battery	CR2032 3v coin cell lithium included (2-year battery life)
Dimensions	1.75in (4.5cm) W x 5.75in (14.6cm) L x 0.85in (1.8cm) D
Weight	0.17lb (77g)



GG-600600 SpotOn Quantum PAR Light Meter \$349.95



SPOTON 36" EXTENSION WAND



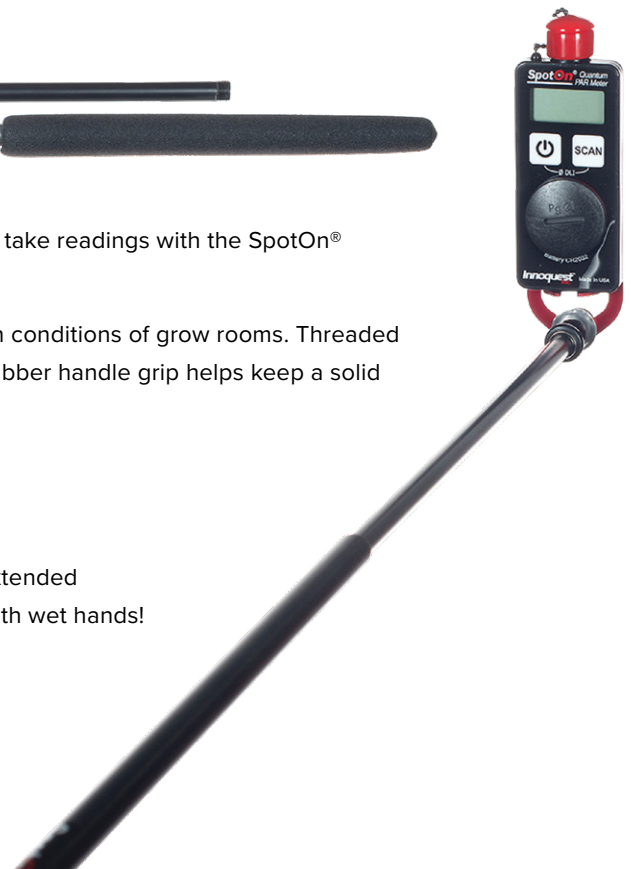
Use the SpotOn Extension Wand to reach further into plant canopies to take readings with the SpotOn® Quantum Par Light Meter. (SpotOn PAR meter sold separately)

The rugged three-piece steel extension wand can stand up to the harsh conditions of grow rooms. Threaded connections ensure the meter will not twist when fully extended. The rubber handle grip helps keep a solid grip on your meter even with wet hands.

FEATURES:

- Made of three-pieces for convenient storage and travel
- Rugged, steel wand for years of service
- Threaded connections ensure the meter will not twist when fully extended
- Rubber handle grip helps keep a solid grip on your meter - even with wet hands!

GG-600605 SpotOn Extension Wand - 36" \$59.95



DIMLUX REVOMAX SMART REMOTE CONTROLLER

CONTROL YOUR DIMLUX MKII OR XTREME LED REMOTELY

The Smart Remote Controller ensures that you can operate your Dimlux Xtreme LED, Dimlux MKII series and OptiClimate(s) remotely (from anywhere in the world). This means that your fixtures and / or climate system can be controlled at all times. The Smart Remote Controller is placed near the Dimlux Smart Fixtures and / or OptiClimate(s) and the computer or smartphone (remotely) communicates via the internet with the Smart Remote Controller, which controls the Dimlux Smart Fixtures and / or OptiClimate(s).

* Will only work with the new Smart Dimlux Products

WHY USE A REVOMAX SMART REMOTE CONTROLLER:

- ▶ Smart (easy) start (enter day and night temperature and humidity settings and all parameters will be set automatically)
- ▶ WiFi
- ▶ LAN
- ▶ Secure Remote Access
- ▶ 7" IPS Panel - Touchscreen
- ▶ Wall and Table Positioning
- ▶ Data Logging
- ▶ Advanced Day/Night Programming

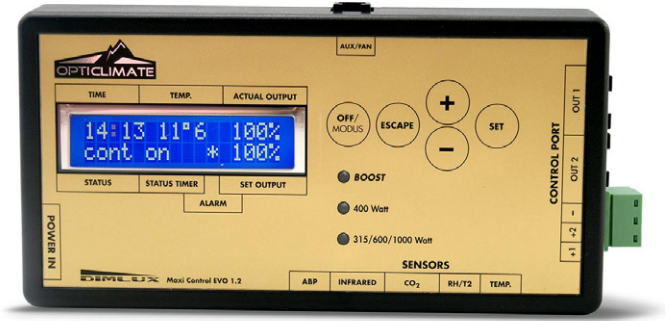


COMING SOON!



DIMLUX MAXI CONTROLLER

The Maxi Controller is a control system that allows you to connect smart sensors and control up to 160 Dimlux Expert Series fixtures. The smart sensors allow you to monitor ambient temperature, humidity, and leaf surface temperature, which then allows the controller to give you vapor pressure deficit (VPD) values in your room. Depending on conditions, the lights will automatically adjust based on desired ambient temperature, and/or leaf surface temperature. When connected to the Aux Box or Fan Aux Box, the Maxi Controller can manage a dehumidifier, humidifier, and/or fan. Users can also program the controller to simulate sunrise and sunset or turn fixtures on and off at designated intervals or in checkerboard pattern, known as Half Force.



GG-610000 Dimlux Maxi Controller \$399.95



AB LIGHTING SMART DIMMING CONTROLLERS



#GG-610100



#GG-610105

These smart controllers monitor the temperature and humidity in the grow room. They will automatically adjust the light based on ambient temperature or humidity. Capable of dimming the lights down to 10% and each zone can control up to 50 lights.

Additional functionality includes a "sunrise/sunset" feature and a timer to set lights ON/OFF automatically.

- ▶ Time Schedule ON/OFF
- ▶ Dimming Output From 10-100%
- ▶ Temp & Humidity Monitor
- ▶ Control MAX 50 Fixtures Each Zone
- ▶ Sunrise & Sunset Mode

GG-610100 AB Lighting Smart Controller - 1 Channel \$99.95
GG-610105 AB Lighting Smart Controller - 2 Channel \$199.95

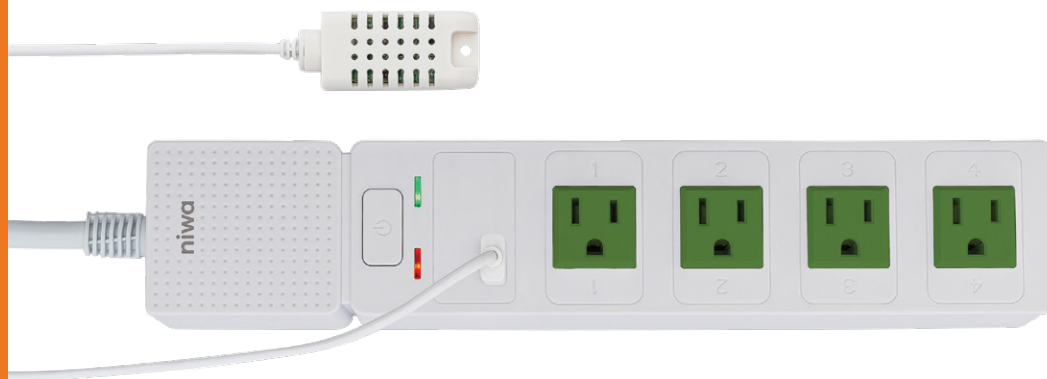
NIWA GROW HUB+ SMART AUTOMATION & MONITORING SYSTEM

The Niwa Grow Hub+ combines all the control of multiple pieces of grow equipment into one single device and app, easing plant management and reducing the risk of making mistakes at an affordable cost.

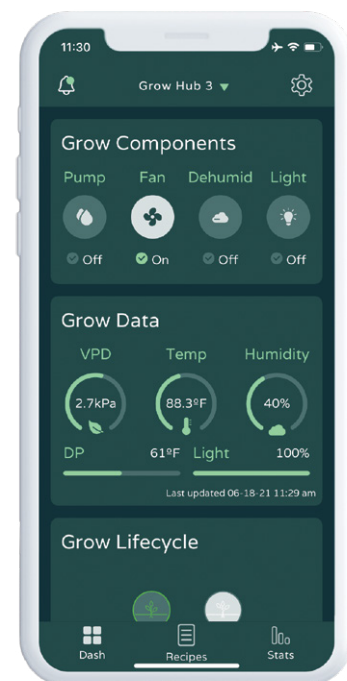
For growers concerned about what's going on in their garden, any user can check the live status of their garden by glancing at their dashboard or check the 'stats' section to view live and historical grow data within their garden. Additionally, growers can create their own custom grow recipe and customize the ideal climate they're seeking (for different times of the day) and the scheduling (i.e. water, light & fan) needed for their plants.

Niwa's goal is to reduce stress and enhance your garden's performance while maintaining a stable growing environment. Their powerful software enables growers to automate their setups in a simple way - just assign your existing devices (such as lamps, fans, humidifiers*, dehumidifiers*, A/C remote triggers*, water pumps, CO2 devices and heaters) to the designated outlet within the Niwa Grow Hub+. Get connected and begin your journey to automating your garden!

**Any grower with a Grow Hub+ needs to be aware of the in-rush current larger pieces of equipment need to operate. Please contact us to discuss in detail or if you have any doubts.*



- ▶ Customizable grow recipes
- ▶ Customizable grow data charts
- ▶ Customizable grow alarms
- ▶ 4 x configurable power outlets
- ▶ Max load: 15A total (& per outlet) 120-240V
- ▶ Wirelessly connect with Niwa Grow devices
- ▶ Download grow data instantly
- ▶ 2.4G WiFi - OTA Firmware updates
- ▶ ETL Certified
- ▶ 1 year warranty



| GG-610110 Niwa Grow Hub+ Smart Automation and Monitoring System \$199.00

SCAN TO LEARN
MORE ABOUT THE
NIWA GROW HUB+



NIWA CO2 SENSOR FOR GROW HUB+

The Niwa CO₂ sensor is compatible with all Grow Hub models and does NOT WORK as an independent sensor. Once you receive your CO₂ sensor, you'll replace your existing sensor module with your new CO₂ sensor module and receive all the preexisting readings you had before (VPD, temperature, relative humidity, light levels, dew point, and now CO₂!) and monitor your CO₂ equipment.

| GG-610115 Niwa CO2 Sensor for Grow Hub/Grow Hub+ \$199.00



DIMLUX PLANT TEMPERATURE CAMERA

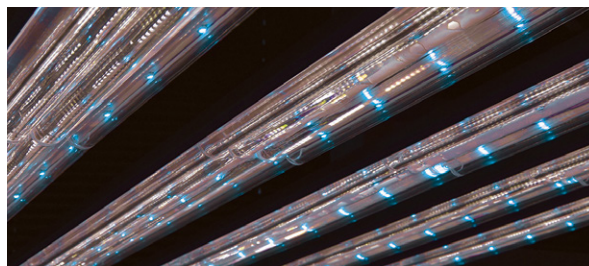
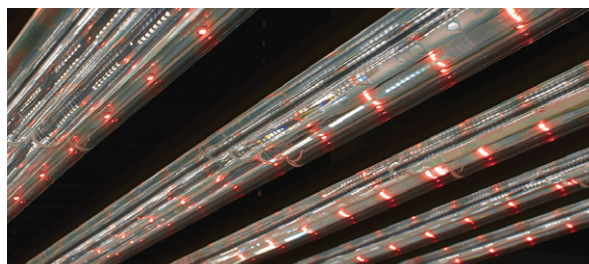
This camera sensor measures plant temperature on the leaf surface. When connected to the Dimlux Maxi Controller, it can be used to dim lights when plant temperature reaches a level that the user deems too high. When used in conjunction with the temperature sensor and the relative humidity sensor, it allows the Maxi Controller to calculate vapor pressure deficit (VPD).

The Dimlux Plant Temperature Camera has been specifically designed for monitoring plants. The majority of other temperature cameras are designed to monitor building materials, hot liquids, etc. It's the plants' transpiration that causes other cameras to not read accurately. Unlike temperature guns that are designed to measure exact small spots, this camera detects a large area that can see more of your canopy for more accurate results.



RGB INDICATOR LIGHTS

Dimlux LEDs have additional "light pipes" that contain full RGB indicator LEDs. When paired with Dimlux digital sensors, these LEDs can provide visual feedback when issues are detected.



DIMLUX DIGITAL PLANT TEMP. CAMERA

Works with the Dimlux Xtreme Series LED Grow Lights.

❶ Cold/Hot Spot Detection – With the Plant Temperature Camera plugged directly into the LED fixture, it can detect changes in the temperature of the canopy. When it detects a too-hot condition, red auxiliary LEDs turn on. If a too-cold condition is found, blue indicator LEDs will turn on.

❷ "Irrigation Monitor" – Plants cool themselves through transpiration. This effect is akin to how swamp coolers cool people's homes and businesses. When an irrigation line becomes blocked, the plants run out of water to transpire thus heating the plant's leaf surfaces and triggering the red indicator lights.



GG-610006	Dimlux Plant Temperature Camera for HID - Short (5m)	\$298.95
GG-610007	Dimlux Plant Temperature Camera for HID - Long (10m)	\$319.95
GG-610017	Dimlux Digital Plant Temperature Camera for LED - Short (5m)	\$298.95
GG-610018	Dimlux Digital Plant Temperature Camera for LED - Long (10m)	\$319.95

DIMLUX TEMPERATURE SENSOR

This sensor measures the ambient temperature of a grow environment. When used with the Maxi Controller, it provides automated control over grow lights based on temperature. Lights can be dimmed, switched to a checkerboard pattern, or turned off depending on the temperature. When used in conjunction with the relative humidity sensor and the leaf surface (IR) temperature camera, it allows the Maxi Controller to calculate vapor pressure deficit (VPD).

With this temperature sensor, the Maxi Controller can dim the lighting based on the temperature. If the set value is exceeded, dimming will first take place to keep the temperature under control. If the temperature rises despite dimming, half of the dimmed lights will be switched off, if the temperature still continues to rise all lights will be switched off for at least 20 minutes.

GG-610004	Dimlux Temperature Sensor - Short (5m)	\$49.95
GG-610005	Dimlux Temperature Sensor - Long (10m)	\$54.95
GG-610020	Dimlux Digital Temperature Sensor - Short (5m)	\$49.95
GG-610021	Dimlux Digital Temperature Sensor - Long (10m)	\$54.95



DIMLUX RELATIVE HUMIDITY SENSOR

This sensor detects ambient humidity and displays it on the Maxi Controller. When connected with the Maxi Controller and a humidifier or dehumidifier, it can help provide optimum level of relative humidity. When used in conjunction with the temperature sensor and the leaf surface (IR) temperature camera, it allows the Maxi Controller to calculate vapor pressure deficit (VPD).

The RH sensor displays the humidity on the Maxi Controller. If the RH sensor is connected, a humidifier can also be switched on with the Maxi Controller. If the VPD is to be displayed, the plant temperature camera will also be required.

GG-610002	Dimlux Relative Humidity Sensor - Short (5m)	\$49.95
GG-610003	Dimlux Relative Humidity Sensor - Long (10m)	\$54.95



DO YOU KNOW YOUR VAPOR PRESSURE DEFICIT?



Use our VPD calculator to find out.

DIMLUX CO2 SENSORS

The Dimlux CO2 sensor uses Dual Beam NDIR technology to accurately measure CO2 levels. By using a measuring sensor as well as a second sensor, this control device provides CO2 measurements that are accurate within 5ppm. When used in conjunction with a CO2 generator or CO2 regulator, it allows users to precisely control CO2 levels.

GG-610008	Dimlux CO2 Sensor for Maxi Controller w/ 5m Cable	\$598.95
GG-610009	Dimlux CO2 Sensor for Maxi Controller w/ 10m Cable	\$616.95



DIMLUX AUX BOX

The Dimlux Aux Box has two three-pronged outlets, 10A max. By connecting the Aux Box to the Maxi Controller, users can add a heater and dehumidifier or humidifier to the control system. This allows for automatic control over the grow room temperature and humidity.

GG-610010 Dimlux Auxiliary Box - 2 Outlet (2 x 110V, 10A) \$149.95



DIMLUX FAN/AUX BOX

The Dimlux Fan/Aux Box contains three outlets, 15A max, so users can connect a heat source, humidifier or dehumidifier, and fan to the Dimlux Maxi Controller. The fan controller has an individually adjustable temperature control, relative humidity day control, and relative humidity night control. SmartLogic technology insures the current temperature is equal to the set temperature.

GG-610011 Dimlux Auxiliary Box w/ Fan Speed Controller - 3 Outlet (3 x 110V, 15A) \$274.95

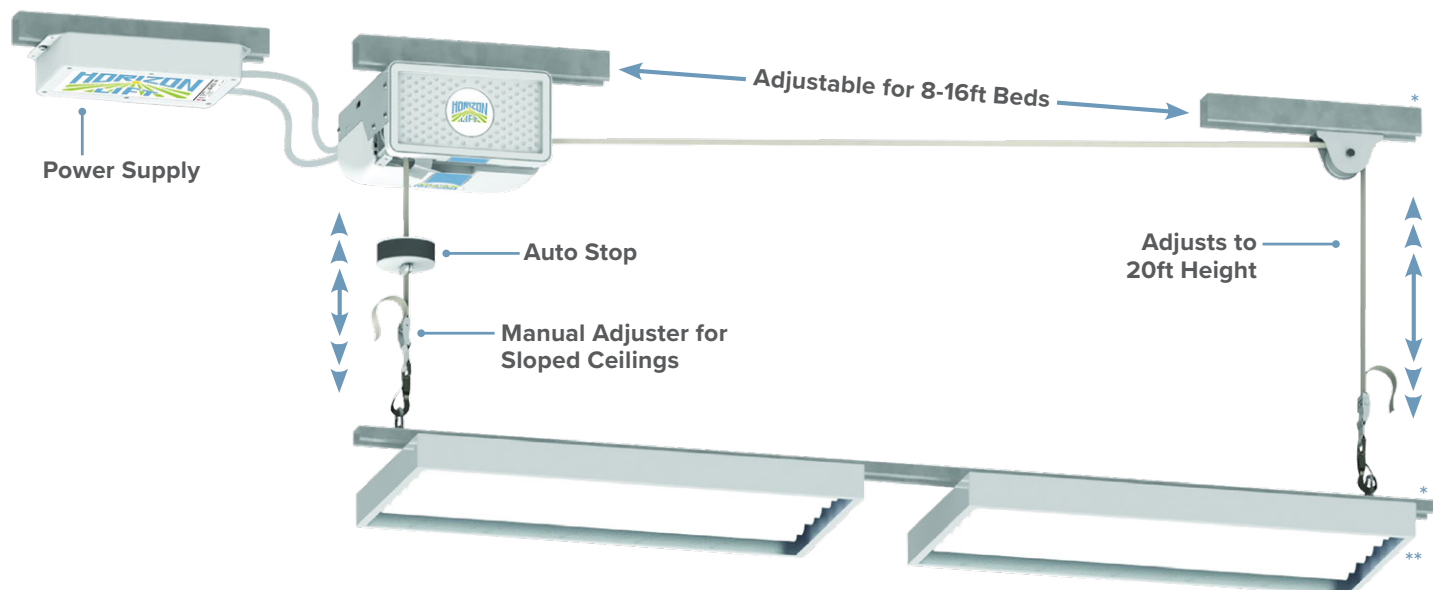


INTERLINK CABLES AND CONNECTORS

This CAT 5 Ethernet cable contains RJ45 connections. It connects Dimlux fixtures to the Dimlux Maxi Controller or to other Dimlux Fixtures. To fit a variety of grow setups, this cord is available in lengths of 2.5m and 5m.

GG-610012	Dimlux RJ45 Interlink Cable - 2.5m	\$8.95
GG-610013	Dimlux RJ45 Interlink Cable - 5m	\$12.95
GG-610014	Dimlux RJ45 Interlink Cable - 10m	\$17.95
GG-610015	Dimlux Communication Cable Splitter	\$7.50
GG-610016	Dimlux Interlink Connector Coupler	\$6.50





*Unistruts and **Light Fixtures not included.

HORIZON LIFT AUTOMATED LED AND HID LIGHT LIFT

MAXIMIZE YOUR TIME AND YIELD WITH HORIZON LIFT. With this automated light lift, you will be able to adjust your lights to any height to **MAINTAIN THE PERFECT LEAF SURFACE TEMPERATURE.** You will also **REDUCE YOUR ENERGY COSTS** by eliminating the need for high bay lighting.

IMPROVE EMPLOYEE SAFETY by keeping your workers on the ground and off the ladder. **SHRINK YOUR LABOR COSTS** by reducing the time needed for manual light adjustments. Need to change a lamp? No problem! Lower your light to within arms reach with just the touch of a button on your mobile device! You can also **QUICKLY MOVE YOUR LIGHTS** up and out of the way for harvesting and room cleaning.

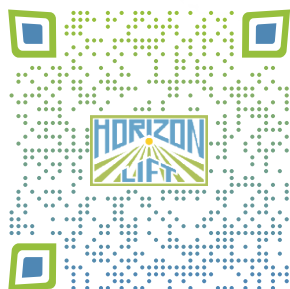
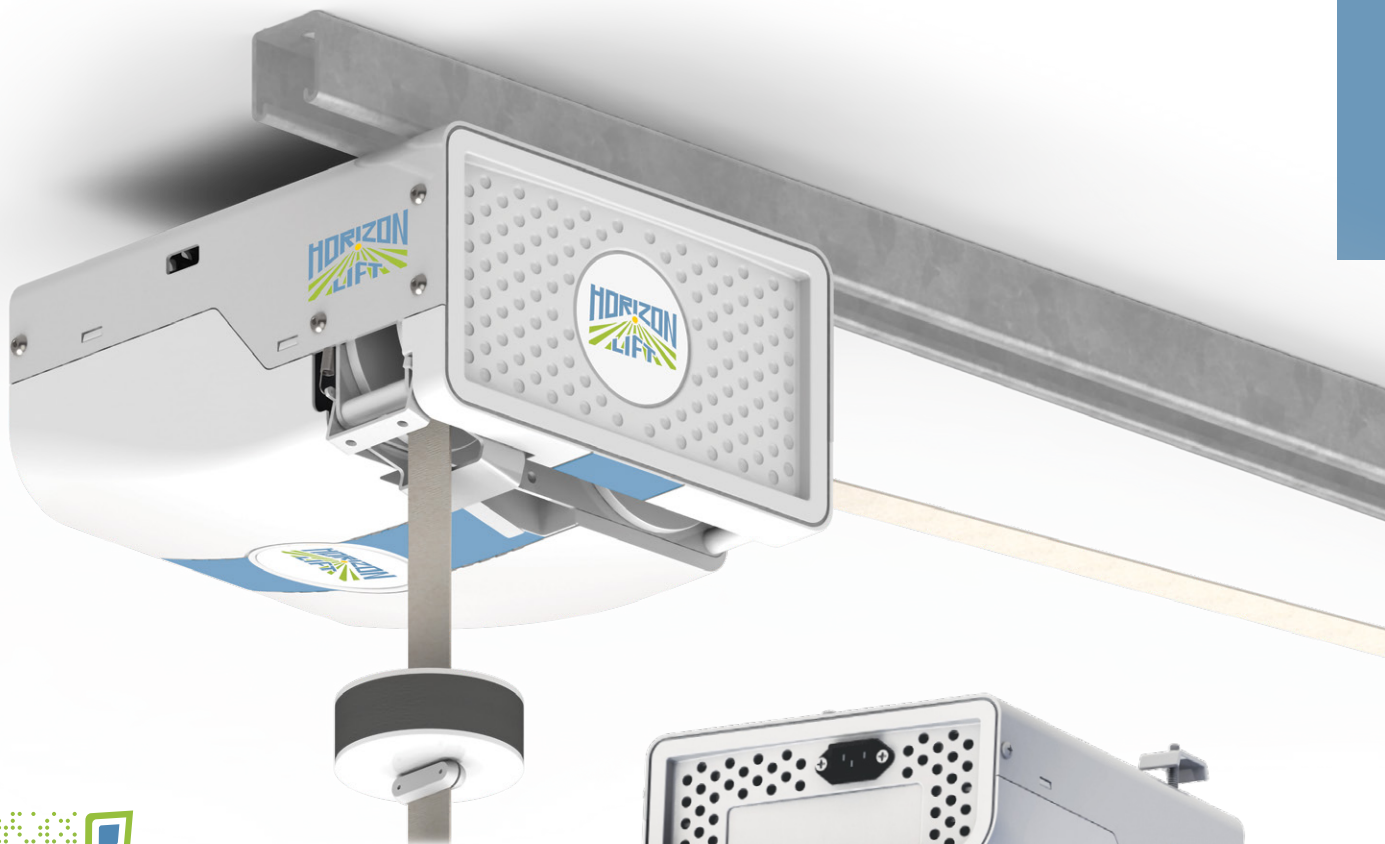
The Horizon Lift is **EASILY OPERATED WITH A MOBILE APP** (available for iOS and Android). **YOU CAN LOWER, LIFT, AND LEVEL YOUR LIGHTS IN JUST SECONDS.** With the app, you can operate up to 2000 Horizon Lift motors independently.

The Horizon Lift can be used with any steel channel strut to attach the unit to the ceiling and to hang your lights from the lift straps. Unistruts and light fixtures not included.

MAX LOAD WEIGHT: 150lbs



GG-680000	Horizon Lift Model 120 Automated Light Lift - 110V	\$795.00
GG-680001	Horizon Lift Model 120 Automated Light Lift - 240V	\$795.00
GG-680002	Horizon Lift Model 120 Automated Light Lift - 277V	\$795.00



SCAN TO SEE
THE HORIZON LIFT
IN ACTION!

- ✓ **MAINTAIN OPTIMUM PPFD FROM GROW TO HARVEST**
- ✓ **HELPS MAINTAIN PROPER LEAF SURFACE TEMPERATURE**
- ✓ **150LB LIFT RATING - UP TO 4 LIGHTS ON 20FT HANG BAR**
- ✓ **EASY OPERATION W/ PHONE OR TABLET (IOS & ANDROID)**
- ✓ **CONTROL UP TO 2000 LIFTS WITH 1 APP**
- ✓ **LIGHT HEIGHT ADJUSTMENT FROM 10 TO 20FT**
- ✓ **INCREASES EMPLOYEE SAFETY 50%**
- ✓ **REDUCES LABOR TIME 75%**



Indoor

Outdoor

Veg

Bloom

Irrigation

Hydro / Aero



Recommended Dosage:
3-7 ml per gallon

NUTRI FORTE BASE NUTRIENTS

Bionova Nutri Forte A+B is developed specifically for the most effective absorption of the necessary elements. It is the simplest solution for cultivation in hydroponics on any artificial substrate such as stonewool. This product contains nearly zero ballast salts and will not create blockages in drip irrigation systems. Contains all food grade minerals and trace elements for rapid growth and abundant flowering. Trace elements are chelated so they can be absorbed within a larger pH-range.

Nutri Forte A must be used in combination with Nutri Forte B.

GG-630325	12/Cs	Bionova Nutri Forte A Base Nutrient - 1L	\$14.50
GG-630326	12/Cs	Bionova Nutri Forte B Base Nutrient - 1L	\$14.50
GG-630327	2/Cs	Bionova Nutri Forte A Base Nutrient - 5L	\$49.95
GG-630328	2/Cs	Bionova Nutri Forte B Base Nutrient - 5L	\$49.95
GG-630329	1/Cs	Bionova Nutri Forte A Base Nutrient - 20L	\$159.95
GG-630330	1/Cs	Bionova Nutri Forte B Base Nutrient - 20L	\$159.95



Indoor

Outdoor

Veg

Bloom

Irrigation



Recommended Dosage:
3-7 ml per gallon

COCO FORTE BASE NUTRIENTS

Bionova Coco Forte A+B is the simplest solution for optimal growth and flowering on any coco-fiber substrate. Due to the short buffering in coco substrates, this concentrated A+B combination is specifically formulated for the most effective absorption of necessary elements. Coco Forte A + B contains all food grade minerals and trace elements for rapid growth and abundant flowering.

Coco Forte A must be used in combination with Coco Forte B.

GG-630310	12/Cs	Bionova Coco Forte A Base Nutrient - 1L	\$14.50
GG-630311	12/Cs	Bionova Coco Forte B Base Nutrient - 1L	\$14.50
GG-630312	2/Cs	Bionova Coco Forte A Base Nutrient - 5L	\$49.95
GG-630313	2/Cs	Bionova Coco Forte B Base Nutrient - 5L	\$49.95
GG-630314	1/Cs	Bionova Coco Forte A Base Nutrient - 20L	\$159.95
GG-630315	1/Cs	Bionova Coco Forte B Base Nutrient - 20L	\$159.95



Indoor

Outdoor

Veg

Bloom

Irrigation



Recommended Dosage:
5-10 ml per gallon

SOIL SUPERMIX BASE NUTRIENT

Bionova's Soil Supermix is an all-in-one main fertilizer for soil substrates, specially formulated for the entire veg and bloom cycle. This perfectly balanced product contains chelated trace elements and food grade minerals. This unique mixture of ingredients ensures rapid growth and abundant flowering.

When using Soil Supermix it's recommended to also use Bionova PK 13-14 as a bloom booster during the entire flowering stage.

GG-630340	12/Cs	Bionova Soil Supermix Fertilizer 1L	\$24.95
GG-630341	2/Cs	Bionova Soil Supermix Fertilizer 5L	\$79.95
GG-630342	1/Cs	Bionova Soil Supermix Fertilizer 20L	\$279.95



PK 13-14 BLOOM BOOSTER

Bionova is the **inventor of the original composition: PK 13-14**. Bionova's PK 13-14 has a higher concentration compared to most competing products! Made from the highest quality food-grade minerals, Bionova's PK 13-14 is plant available within hours giving you optimal control of your plants. Phosphorus activates blooming inside any treated plant and potassium prompts and creates exuberant flowering. PK 13-14 should be used in conjunction with Bionova Soil Supermix.

GG-630050	20/Cs	Bionova PK 13-14 Bloom Stimulator - 250ml	\$9.95
GG-630051	12/Cs	Bionova PK 13-14 Bloom Stimulator - 1L	\$18.95
GG-630052	2/Cs	Bionova PK 13-14 Bloom Stimulator - 5L	\$74.95
GG-630053	1/Cs	Bionova PK 13-14 Bloom Stimulator - 20L	\$259.95

Recommended Dosage: 0.75-2 ml per gallon As a Foliar Spray: 1-2 ml per gallon.



ROOTS - ROOT GROWTH STIMULATOR

Due to its high concentration (1:1000) Bionova Roots is the most efficient root stimulator on the market. Using a root stimulator is crucial for rapid root development in young plants. Bionova Roots helps young plants develop more root hairs thus increasing nutrient absorption. The resulting expansive roots system gives plants more resilience against outside stressors.

GG-630020	20/Cs	Bionova Roots - Root Growth Stimulator - 250ml	\$29.95
GG-630021	12/Cs	Bionova Roots - Root Growth Stimulator - 1L	\$79.95
GG-630022	2/Cs	Bionova Roots - Root Growth Stimulator - 5L	\$349.95
GG-630023	1/Cs	Bionova Roots - Root Growth Stimulator - 20L	\$1,198.00

Recommended Dosage: Roots should be used for the first 3 weeks of the growth cycle. Start with 3 ml per gallon and decrease by a half ml per week. Week 1 = 3 ml per gallon | Week 2 = 2.5 ml per gallon | Week 3 = 2 ml per gallon



Si lution MONO-SILICIC ACID

The best plant available silica in the world! Silution is a patented formula that comes from the purest source of mono-silicic acid, mixed with purified, high-grade biological ingredients. This unique formula not only further stabilizes the present silicic acid, it also stimulates the plant's natural defense mechanism. The addition of other trace elements such as boric acid and zinc, even further increases the stability and effectiveness.

Silution will strengthen the plant and stimulate growth and flowering. It helps accelerate root growth, enabling plants to take up more nutrients, which in turn allows the plant to grow better, faster and stronger, and helps the plant to resist external influences and diseases.

GG-630000	20/Cs	Bionova Silution Mono-Silicic Acid - 250ml	\$59.95
GG-630001	12/Cs	Bionova Silution Mono-Silicic Acid - 1L	\$199.95
GG-630002	2/Cs	Bionova Silution Mono-Silicic Acid - 5L	\$779.95
GG-630003	1/Cs	Bionova Silution Mono-Silicic Acid - 20L	\$2,795.00

Recommended Dosage: 0.75 ml per gallon. As a Foliar Spray: 8 ml per gallon.



Indoor
Outdoor
Veg
Bloom
Irrigation
Foliar Spray
Hydro / Aero

Recommended Dosage:
2-4 ml per gallon

X-CEL VEG AND BLOOM BOOSTER

Bionova X-cel actively takes part in the growing and flowering process from the first day of planting leading to a demonstrable increase in yield (10-25%). USDA Certified – 100% ORGANIC and VEGAN blend of plant stimulants. Organic extracts stimulate plant metabolism. Promotes quick root strike helping to eliminate leaf drop. Plants grow more rapidly while simultaneously developing extensive root systems. Stimulates photosynthesis and carb development. Can be used for entirety of veg and bloom cycles.

GG-630004	20/Cs	Bionova X-cel Bloom Stimulator - 250ml	\$18.95
GG-630005	12/Cs	Bionova X-cel Bloom Stimulator - 1L	\$49.95
GG-630006	2/Cs	Bionova X-cel Bloom Stimulator - 5L	\$199.95
GG-630007	1/Cs	Bionova X-cel Bloom Stimulator - 20L	\$749.95



Indoor
Outdoor
Veg
Bloom
Irrigation
Hydro / Aero

Recommended Dosage:
1.5-4 ml per gallon

VITASOL SWEETENER

Bionova Vitasol is a sweetener containing natural sugars, calcium, magnesium, copper, lime, potassium, vitamins, and a great number of vegan trace elements. Vitasol is extremely suitable as a converter of available nutrients; especially in periods of high production and rapid growth (in the case of indoor crops) or in case of slow growth due to nutrient deficiencies, Vitasol will provide more energy in flowering phases.

GG-630040	20/Cs	Bionova Vitasol Stimulator and Sweetener - 250ml	\$9.50
GG-630041	12/Cs	Bionova Vitasol Stimulator and Sweetener - 1L	\$21.95
GG-630042	2/Cs	Bionova Vitasol Stimulator and Sweetener - 5L	\$89.95
GG-630043	1/Cs	Bionova Vitasol Stimulator and Sweetener - 20L	\$299.95



Indoor
Outdoor
Veg
Bloom
Irrigation
Foliar Spray
Hydro / Aero

Recommended Dosage: 2-4 ml per gallon.
As a Foliar Spray: 19 ml per gallon (use max 3 times - during veg and week 1 of bloom.)

THE MISSING LINK IMMUNITY BOOSTER

The Missing Link is an essential additive, developed to work in conjunction with Bionova X-cel. The Missing Link may aid in micronutrient uptake. The Missing Link is a highly concentrated product with a low application rate. This product can be used with all Bionova main fertilizers. Contains: 2.5% humic acid from ancient humic shale, and trace colloidal precious metals to boost immunity.

GG-630008	20/Cs	Bionova The Missing Link Stimulator - 250ml	\$29.95
GG-630009	12/Cs	Bionova The Missing Link Stimulator - 1L	\$89.95
GG-630010	2/Cs	Bionova The Missing Link Stimulator - 5L	\$374.95
GG-630011	1/Cs	Bionova The Missing Link Stimulator - 20L	\$1,296.00



Recommended Dosage:
2-4 ml per gallon

BN-ZYM SUBSTRATE ENERGIZER

Bionova BN-Zym increases bacteria activity, helping convert nutrients and minerals in your substrate into material that can be directly absorbed by the roots. BN-Zym catalyzes waste matter breakdown and delivers it back to the crop in the form of absorbable nutrients.

Moreover, the medium stays clean and free of excess components. This is important for every cultivation; especially for those that re-use soil and coco substrates.

BN-Zym Stimulates water-retention in all media and decreases the soil-tension of water. It brings more oxygen into your substrate and is highly concentrated making it incredibly efficient.

GG-630030	20/Cs	Bionova BN-Zym Enzymes and Stimulator - 250ml	\$19.95
GG-630031	12/Cs	Bionova BN-Zym Enzymes and Stimulator - 1L	\$59.95
GG-630032	2/Cs	Bionova BN-Zym Enzymes and Stimulator - 5L	\$199.95
GG-630033	1/Cs	Bionova BN-Zym Enzymes and Stimulator - 20L	\$699.95



Recommended Dosage: Max. 4 ml per gallon for nitrogen deficiencies. As a supplement during veg, add 1-4 ml per gallon. As a Foliar Spray - 9.5-19 ml per gallon.

N 27 NITROGEN ADDITIVE

Bionova N 27 is a very powerful liquid nitrogen fertilizer enriched with magnesium. It is a food grade mineral additive containing 27% nitrogen and free of chlorides. N 27 should be used when a deficiency in nitrogen occurs or when you want to boost vegetative growth. The importance of nitrogen is well-known for most cultivators. Nitrogen is, quantitatively speaking, the most important plant nutrient as it is the primary substance of proteins (amino acids) and chlorophyll. It also plays a significant role in plant osmosis regulation.

GG-630061	12/Cs	Bionova N 27 Nitrogen Mineral Additive - 1L	\$24.95
GG-630062	2/Cs	Bionova N 27 Nitrogen Mineral Additive - 5L	\$99.95
GG-630063	1/Cs	Bionova N 27 Nitrogen Mineral Additive - 20L	\$349.95



Recommended Dosage: Max. 4 ml per gallon for phosphorus deficiencies. For root growth and/or flowering, add 0.5-2 ml per gallon. As a Foliar Spray - 9.5-19 ml per gallon.

P 20 PHOSPHORUS ADDITIVE

Bionova P 20 is a food grade mineral additive containing 20% phosphorus. P 20 is free of chlorides and other excess ingredients. Plants have a high demand for phosphorus during the first weeks of flower. This product provides a head start in bud development. Phosphorus plays an important role in forming energy carriers and DNA within plant cells. It is also essential for the metabolism of sugars and cell membrane formation. P 20 should be used when a phosphorus deficiency is detected or to prompt flowering.

GG-630071	12/Cs	Bionova P 20 Phosphorus Mineral Additive - 1L	\$24.95
GG-630072	2/Cs	Bionova P 20 Phosphorus Mineral Additive - 5L	\$99.95
GG-630073	1/Cs	Bionova P 20 Phosphorus Mineral Additive - 20L	\$349.95



K 20 POTASSIUM ADDITIVE

Bionova K 20 is a food grade mineral additive containing 20% potassium. Using K 20 when needed will result in higher quality flower, improved firmness, and higher dry-weight content! Potassium is the K in the nutrient N-P-K ratio and is crucial for every cultivation. Young plants have a high demand for potassium during maturation.

GG-630081	12/Cs	Bionova K 20 Potassium Mineral Additive - 1L	\$24.95
GG-630082	2/Cs	Bionova K 20 Potassium Mineral Additive - 5L	\$99.95
GG-630083	1/Cs	Bionova K 20 Potassium Mineral Additive - 20L	\$349.95

Recommended Dosage: As a supplement during bloom, add 0.5-4 ml per gallon.



Ca 15 CALCIUM ADDITIVE

Bionova Ca 15 is a food grade mineral additive containing 15% calcium. This additive should be applied when deficiencies occur and/or to strengthen cell walls. Calcium plays an important role in stabilizing cell walls, ion-reactions within plants, influencing growth hormones and controlling the transportation of nutrients and water in your plant. Calcium deficiency is often seen in climates with high humidity or grow rooms with low air circulation.

GG-630091	12/Cs	Bionova Ca 15 Calcium Mineral Additive - 1L	\$24.95
GG-630092	2/Cs	Bionova Ca 15 Calcium Mineral Additive - 5L	\$99.95
GG-630093	1/Cs	Bionova Ca 15 Calcium Mineral Additive - 20L	\$349.95

Recommended Dosage: In areas with soft water, 1-1.5 ml per gallon. When using RO water add 1-3 ml per gallon.
 As a Foliar Spray - 9.5-19 ml per gallon of water



MgO 10 MAGNESIUM ADDITIVE

Bionova MgO 10 is a food grade mineral additive containing 10% magnesium. Magnesium is essential to the process of photosynthesis. This additive should be applied when deficiencies occur and/or to stabilize RO water for irrigation. Magnesium in MgO 10 forms the reactive nuclei in the chlorophyll, which converts light energy into chemical energy. Mg deficiency is often seen in cultivations irrigated with RO water or when cultivating under LEDs.

GG-630301	12/Cs	Bionova MgO 10 Magnesium Mineral Additive - 1L	\$24.95
GG-630302	2/Cs	Bionova MgO 10 Magnesium Mineral Additive - 5L	\$99.95
GG-630303	1/Cs	Bionova MgO 10 Magnesium Mineral Additive - 20L	\$349.95

Recommended Dosage: 1-3 ml per gallon. When using RO water add 2-6 ml per gallon.
 As a Foliar Spray - 9.5-19 ml per gallon.



Recommended Dosage: 1-2 ml per gallon. As a Foliar Spray: 2-4 ml per gallon.

MICROMIX TRACE ELEMENTS ADDITIVE

Bionova Micromix is a combination of trace elements that are indispensable for a great number of biological processes. A deficiency of trace elements will cause the plant's vital functions to fail. Because trace elements can no longer be transported to new growth, young leaves will show signs of stress and yellowing. Micromix can solve this problem! The minerals in Micromix are plant available across all pH ranges. Bionova Micromix should be applied when deficiencies occur and when reusing potting soil. A dose of 1:1000 Micromix increases the following elements: Fe by 100 µmol, Mn by 25 µmol, Bo by 140 µmol, Zn by 16 µmol, Mo by 5 µmol.

GG-630350	20/Cs	Bionova Micromix Mineral Additive - 250ml	\$12.50
GG-630351	12/Cs	Bionova Micromix Mineral Additive - 1L	\$29.95
GG-630352	2/Cs	Bionova Micromix Mineral Additive - 5L	\$119.95



MICROLIFE MYCORRHIZAE SOIL ENHANCER

Bionova Microlife not only stimulates the growth of micro-organisms, it also stimulates the growth and flowering of all plants with the addition of a variety of trace elements and natural hormones. This unique composition enriches and stimulates soil life, which enhances soil structure, plant rooting, and the overall health of all plants. In this enhanced environment, organic and inorganic soil particles blend optimally, creating a more efficient air/water economy. Nutrients are made more bio-available. The effects are quickly noticeable.

GG-630360	1/Cs	Bionova Microlife Mycorrhizae Soil Enhancer - 2Kg	\$49.95
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Recommended Dosage: 1-2 kg per m³ potting soil or per 25 m², depending on soil quality. Repetition while changing crops: 1 kg per m³ potting soil. Work the product in well.



PROFIMIX ALL-IN-ONE GRANULAR FERTILIZER

Profimix is developed for maximum profit and easy usability. Profimix contains organic fertilizers + micro-organisms. The organic matter we put inside Profimix is completely free of animal-waste, so it's a veganic fertilizer. After mixing Profimix in the soil, water is all you need to grow! Mix this basic fertilizer into your soil, and it's fertilized for 10-12 weeks. The easiest way to cultivate! Profimix stimulates micro-organism activity, enhances the rooting process, and provides vigorous growth and bloom. Profimix enhances the plant's natural resistance against pests and disease.

GG-630380	1/Cs	Bionova Profimix All-In-One Granular Fertilizer - 2Kg	\$49.95
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Recommended Dosage: Mix 10 kg's per m² (1076 ft²) of soil and water regularly.

pH+ AND pH-

Bionova pH+ and pH- are 24.5% potassium hydroxide solutions used to adjust the pH of a nutrient solution upwards or downwards. When pH is in the right range, it makes it easier for the plants to uptake the nutrients they need.



GG-630365	12/Cs	Bionova pH+ Liquid pH Adjuster - 1 Liter	\$13.95
GG-630366	2/Cs	Bionova pH+ Liquid pH Adjuster - 5 Liter	\$39.95
GG-630367	1/Cs	Bionova pH+ Liquid pH Adjuster - 20 Liter	\$139.95
GG-630370	12/Cs	Bionova pH- Liquid pH Adjuster - 1 Liter	\$13.95
GG-630371	2/Cs	Bionova pH- Liquid pH Adjuster - 5 Liter	\$39.95
GG-630372	1/Cs	Bionova pH- Liquid pH Adjuster - 20 Liter	\$139.95

Recommended Dosage: 1-1.5 ml per gallon. Adjust as needed.

GREEN HOUSE FEEDING MINERAL LINE



GROW

Formulated with a high level of quality nitrogen, this powdered nutrient formula provides optimum development throughout the vegetative growth-stage to obtain greener, stronger plants. The Grow formula is ideal for the production of mother plants and cuttings. Its NPK value of 24-6-12 allows for rapid development of plant tissue. Along with the major macronutrients, it also contains high-quality magnesium, sulfur, boron, iron, manganese, and molybdenum to help prevent deficiencies.

Recommended Dosage: 2.3-2.8 g per gallon

GG-630100	10/Cs	GHF Mineral Line Grow - 500g (1.1lb)	\$31.95
GG-630101	5/Cs	GHF Mineral Line Grow - 1Kg (2.2lbs)	\$49.95
GG-630102	5/Cs	GHF Mineral Line Grow - 2.5Kg (5.5lbs)	\$99.95
GG-630103	1/Cs	GHF Mineral Line Grow - 25Kg (55lbs)	\$599.95



HYBRIDS

This powdered formula contains a high level of magnesium and sulfur, while having a lower level of nitrogen for the reproductive flowering stage with NPK(Mg) values of 15-7-22-(3.6). This formula is excellent for the production of hybrid varieties with a flowering time of 8-10 weeks as well as for plants in hydroponics systems. The high levels of magnesium and sulfur encourage the production of essential oils, terpenes, and flavonoids.

Recommended Dosage: 1.5-3.2 g per gallon

GG-630104	10/Cs	GHF Mineral Line Hybrids - 500g (1.1lb)	\$31.95
GG-630105	5/Cs	GHF Mineral Line Hybrids - 1Kg (2.2lbs)	\$49.95
GG-630106	5/Cs	GHF Mineral Line Hybrids - 2.5Kg (5.5lbs)	\$99.95
GG-630107	1/Cs	GHF Mineral Line Hybrids - 25Kg (55lbs)	\$599.95



SHORT FLOWERING

This powdered nutrient blend contains high amounts of potassium to encourage the production of flowers and fruit in plants with a flowering period of eight weeks or less. With NPK values of 16-6-26, plants get enough nitrogen to produce vigorous leaves and stalks and enough potassium to form many healthy flowers and fruit.

Recommended Dosage: 1.5-3.2 g per gallon

GG-630108	10/Cs	GHF Mineral Line Short Flower - 500g (1.1lb)	\$31.95
GG-630109	5/Cs	GHF Mineral Line Short Flower - 1Kg (2.2lbs)	\$49.95
GG-630110	5/Cs	GHF Mineral Line Short Flower - 2.5Kg (5.5lbs)	\$99.95
GG-630111	1/Cs	GHF Mineral Line Short Flower - 25Kg (55lbs)	\$599.95



LONG FLOWERING

Designed for plants with a flowering time of more than ten weeks, this product contains a specially formulated ratio of nutrients. Its NPK values of 18-12-18 provide nitrogen for tissue growth, phosphorus for energy transformation and protein synthesis, and potassium for the regulation of plant functions. The ratio is specially designed to provide enough nitrogen and phosphorus throughout the plant's entire flowering stage.

Recommended Dosage: 1.5-3 g per gallon

GG-630112	10/Cs	GHF Mineral Line Long Flower - 500g (1.1lb)	\$31.95
GG-630113	5/Cs	GHF Mineral Line Long Flower - 1Kg (2.2lbs)	\$49.95
GG-630114	5/Cs	GHF Mineral Line Long Flower - 2.5Kg (5.5lbs)	\$99.95
GG-630115	1/Cs	GHF Mineral Line Long Flower - 25Kg (55lbs)	\$599.95



BOOSTER

This additive is especially formulated to provide adequate amounts of phosphorus, potassium, sulfur, magnesium, and micronutrients to increase the resin production and the formation and density of flowers. **GHF Booster PK+ contains 9% sulfur. The addition of sulfur aids in EXTREME TERPENE AND OIL PRODUCTION as well as flower density.** There is extra magnesium and trace elements in Booster to enhance the uptake of phosphorus and potassium even if the ratios are not balanced. Booster ensures that the nutrients are balanced and there is no lack of any element that might limit the uptake of other nutrients.

Recommended Dosage: 1-2 g per gallon

GG-630116	10/Cs	GHF Mineral Line Booster PK+ - 500g (1.1lb)	\$55.95
GG-630117	5/Cs	GHF Mineral Line Booster PK+ - 1Kg (2.2lbs)	\$89.95
GG-630118	5/Cs	GHF Mineral Line Booster PK+ - 2.5Kg (5.5lbs)	\$179.95
GG-630119	1/Cs	GHF Mineral Line Booster PK+ - 25Kg (55lbs)	\$1,196.00



CALCIUM

This EDTA chelated Calcium is ideal in situations where water is low in calcium. Unlike other forms of calcium (most commonly used is calcium nitrate*), this chelated form is stable, meaning it does not interact with other elements and is therefore highly available for plant uptake. Providing plants with enough calcium ensures strong cell walls and plant structure.

Recommended Dosage: 2-5 g per gallon

GG-630120	10/Cs	GHF Mineral Line Calcium - 500g (1.1lb)	\$27.95
GG-630121	5/Cs	GHF Mineral Line Calcium - 1Kg (2.2lbs)	\$44.95
GG-630122	5/Cs	GHF Mineral Line Calcium - 2.5Kg (5.5lbs)	\$89.95
GG-630123	1/Cs	GHF Mineral Line Calcium - 25Kg (55lbs)	\$599.95

**Calcium nitrate has limited compatibility with magnesium sulphate, potassium sulphate or phosphoric acid and might cause falling out of solution (results in clogging of lines and decreased nutrient availability).*

HOW MUCH GHF MINERAL LINE WILL YOU NEED?



Use the GHF Mineral Line calculator to find out.

GREEN HOUSE FEEDING BIO LINE



BIO GROW

BioGrow is an organic powder blend of nutrients sourced from all-natural materials. With NPK values of 7-2-4, as well as added calcium, magnesium, sulfur, and iron, this product is ideal for vegetative growth. BioGrow slowly releases nutrients over a period of 8 weeks. When in contact with the medium and water, the natural ingredients are broken down by the soil biology and deliver nutrients to the roots.

Recommended Dosage for Veg: 12-18 g per gallon of substrate.

Dosage for Mother Plants: 8-12 g per gallon of substrate every two months (as top dressing).

GG-630124	10/Cs	GHF Bio Line BioGrow - 500g (1.1lb)	\$55.95
GG-630125	5/Cs	GHF Bio Line BioGrow - 1Kg (2.2lbs)	\$89.95
GG-630126	5/Cs	GHF Bio Line BioGrow - 2.5Kg (5.5lbs)	\$179.95
GG-630127	1/Cs	GHF Bio Line BioGrow - 25Kg (55lbs)	\$998.00



BIO BLOOM

BioBloom is an organic blend of all natural materials designed to support plants in the flowering stage. It has NPK values of 4-9-9 and also contains calcium, magnesium, and sulfur. Its low amount of nitrogen helps plants focus their energy on flowering rather than vegetative growth. Applied in week 1 of the flower cycle, BioBloom slowly releases nutrients over a period of 8 weeks. BioBloom is amended to the soil by mixing or top/side dressing.

Recommended Dosage: 4-18 g per gallon of substrate, depending on usage.

GG-630128	10/Cs	GHF Bio Line BioBloom - 500g (1.1lb)	\$64.95
GG-630129	5/Cs	GHF Bio Line BioBloom - 1Kg (2.2lbs)	\$97.95
GG-630130	5/Cs	GHF Bio Line BioBloom - 2.5Kg (5.5lbs)	\$199.95
GG-630131	1/Cs	GHF Bio Line BioBloom - 25Kg (55lbs)	\$1,098.00



BIO ENHANCER

BioEnhancer is an organic product that provides a powerful punch of bio-stimulants including humic acids, cold water seaweed (kelp) extract, Trichoderma harzianum, and Bacillus amyloliquefaciens. These ingredients work to enhance plant growth by increasing nutrient uptake, improving resistance to pathogens, and enhancing water retention of the soil. BioEnhancer can be used as a soil drench or foliar spray as well as an aid to seed germination and rooting of cuttings.

Recommended Dosage: 2-4 g per gallon every two weeks.

Foliar Application: 3-5 g per gallon. Apply once every two weeks during veg.

GG-630132	9/Cs	GHF Bio Line BioEnhancer - 500g (1.1lb)	\$89.95
GG-630133	5/Cs	GHF Bio Line BioEnhancer - 1Kg (2.2lbs)	\$149.95
GG-630134	5/Cs	GHF Bio Line BioEnhancer - 2.5Kg (5.5lbs)	\$299.95
GG-630135	1/Cs	GHF Bio Line BioEnhancer - 25Kg (55lbs)	\$1,990.00



HOW MUCH GHF BIO LINE WILL YOU NEED?



Use the GHF Bio Line calculator to find out.



AMPLIFY MICROBIAL INOCULANT

Our unique alliance of microbes can be added to soil, growing medium, or used as a foliar spray throughout a plant's life cycle. Amplify adds stable bacterial diversity to both your soil rhizosphere and to your plant surface. A balanced rhizosphere and healthy plant environment, in turn, is known to support N-P-K and micro nutrient utilization. The result? Bigger, better, more beautiful buds. We lock this microbial powerhouse formula into our specialty ferment for long-term shelf life providing consistent potency, quality, and performance.

THE POWER OF FULL SPECTRUM MICROBES:

Yield: Increases yields, on average, 16%.

Enhanced soil function.

Overall plant health.

Support the mycorrhizal network.

Full spectrum macro and micro nutrient cycling.

Optimize plant expression and terpene production.

Earth-cultured, these naturally occurring microbials are conditioned for peak rhizosphere performance.

Stable and diverse, a specific consortia developed and tested over decades.

Laboratory efficacy metrics ensure performance consistency.

Quantify your grow: Unlock your plant's genetic potential.

Recommended Dosage: 1-3 ml per gallon

GG-630200	12	Organitek Amplify Microbial Blend - 2.5 oz.	\$19.00
GG-630201	8	Organitek Amplify Microbial Blend - 8 oz.	\$55.00
GG-630202	8	Organitek Amplify Microbial Blend - 32 oz.	\$155.00
GG-630203	2	Organitek Amplify Microbial Blend - 1 Gal.	\$499.00
GG-630204	1	Organitek Amplify Microbial Blend - 5 Gal.	\$1,999.00

GROWER'S ALLY® CROP DEFENDER 3



Grower's Ally® Crop Defender 3 is an OMRI Listed® miticide, insecticide and fungicide for weekly use to prevent common pests. Formulated with a synergistic blend of botanical oils and a surfactant, it is a highly effective crop protection formula that can be safely applied up until the day of harvest and leaves zero pollutants.

MODE OF ACTION - The triple-action formula kills powdery mildew, spider mites, russet mites, thrips, aphids and other soft-bodied insects as well as their eggs on contact. Trusted by large scale growers for use in the flowering stage and suitable for all grow environments and cultivation facilities.

Dosage for Preventative Use: 10 ml per gallon every 7 days

Dosage for Curative Use: 40 ml per gallon every 3-5 days

100% KNOCKDOWN

Spider Mites & Eggs*
(1 week, 1 application)

99% MORTALITY

Aphids*
(1 week, 1 application)

93% CONTROL

Powdery Mildew*
(1 month, 5 applications vs. untreated)

*independent testing conducted by Collins Agricultural Consultants, Inc.

GG-670215	6/Cs	Grower's Ally Crop Defender 3 RTU - 24 oz.	\$12.95
GG-670216	8/Cs	Grower's Ally Crop Defender 3 Concentrate - 8 oz.	\$49.95
GG-670217	6/Cs	Grower's Ally Crop Defender 3 Concentrate - 32 oz.	\$149.95
GG-670218	4/Cs	Grower's Ally Crop Defender 3 Concentrate - 1 Gal.	\$499.00
GG-670219	1/Cs	Grower's Ally Crop Defender 3 Concentrate - 2.5 Gal.	\$1,198.00

GROWER'S ALLY® SPIDER MITE CONTROL

Grower's Ally® Spider Mite Control is an OMRI Listed® insecticide, miticide and repellent. Formulated with an effective blend of rosemary, clove and peppermint oils, Grower's Ally® foliar spray tests clean and is proven to kill and repel common soft-bodied insects, including adult and nymph spider mites and russet mites. Trusted by large scale growers for use in the flowering stage and suitable for all grow environments and cultivation facilities: indoor, outdoor, greenhouse, hydroponic.



MODE OF ACTION - The botanical oil formulation in Grower's Ally® Spider Mite Control overstimulates and disrupts the pest's nervous system, leading to paralysis. The oils block air from the pest spiracles, preventing them from breathing and causing suffocation on contact.

Rosemary oil has strong repellent properties. Any insect not contacted by direct spray will quickly leave the treated area. When used as a preventative treatment, the rosemary oil works synergistically with the plant to ward off insects.

Dosage for Preventative Use: 10 ml per gallon every 7 days

Dosage for Curative Use: 40 ml per gallon every 3-5 days

GG-670203	6/Cs	Grower's Ally Spider Mite Control RTU - 24 oz.	\$12.95
GG-670206	8/Cs	Grower's Ally Spider Mite Control Concentrate - 8 oz.	\$49.95
GG-670204	6/Cs	Grower's Ally Spider Mite Control Concentrate - 32 oz.	\$149.95
GG-670205	4/Cs	Grower's Ally Spider Mite Control Concentrate - 1 Gal.	\$499.00
GG-670207	1/Cs	Grower's Ally Spider Mite Control Concentrate - 2.5 Gal.	\$1,198.00

GROWER'S ALLY® FUNGICIDE

Grower's Ally® Fungicide is an OMRI Listed® fungicide and bactericide. Formulated with food-grade citric acid, Grower's Ally® foliar spray tests clean and is proven to kill and prevent common plant pathogens, including powdery mildew. Trusted by large scale growers for use in the flowering stage and suitable for all grow environments and cultivation facilities: indoor, outdoor, greenhouse, hydroponic.

MODE OF ACTION - The citric acid formulation in Grower's Ally® Fungicide forms a protective barrier on the leaf surface that inhibits pathogen development. When used as a preventative treatment, it has anti-fungal effects to reduce bacterial growth and prevent disease on plants.

Dosage for Preventative Use: 45 ml per gallon every 7 days

Dosage for Curative Use: 45 ml per gallon every 3-5 days

GG-670200	6/Cs	Grower's Ally Fungicide RTU - 24 oz.	\$12.95
GG-670198	8/Cs	Grower's Ally Fungicide Concentrate - 8 oz.	\$12.95
GG-670201	6/Cs	Grower's Ally Fungicide Concentrate - 32 oz.	\$29.95
GG-670202	4/Cs	Grower's Ally Fungicide Concentrate - 1 Gal.	\$99.95
GG-670199	1/Cs	Grower's Ally Fungicide Concentrate - 2.5 Gal.	\$239.00



AZAPRO

AZAPRO INSECTICIDE/NEMATACIDE

AzaPro is a broad-spectrum insecticide/nematicide utilizing a highly bioactive form of azadirachtin. AzaPro has a dual mode of action, acting primarily as an Insect Growth Regulator (IGR), and its residual formula acts as a repellent. Controlling more than 300 different insect species, AzaPro can safely be used up to the day of harvest.

Better Leaf Penetration - Insects that feed on the undersides of leaves can be difficult to control with sprays directed only over the top of the plant. AzaPro penetrates the plant by translaminar movement to provide control of these hard-to-reach pests. Repeated applications of AzaPro builds a "barrier" within the plant to prevent establishment of large pest populations.

Integrated Pest Management (IPM) and Insect Resistance Management (IRM) - IPM combines various tools and methods for pest control. AzaPro is an excellent management tool for use in IPM programs. With its unique mode of action, AzaPro can be applied in combination or rotation with currently available products, such as synthetic pyrethroid and organophosphate (OPs) insecticides, to control target insects in an Insect Resistance Management (IRM) program. AzaPro has a 0-day pre-harvest interval (PHI) and a 4-hour re-entry interval (REI).

Target Pest Species Controlled by AzaPro: aphids, thrips, leafhoppers, leafminers, beetles, mealy bugs, weevil, lepidoptera, pear psylla and more. In addition, AzaPro provides nematode suppression.

GG-670000	40/Cs	AzaPro Insecticide/Nematicide - 4 oz.	\$39.95
GG-670001	20/Cs	AzaPro Insecticide/Nematicide - 16 oz.	\$95.00
GG-670002	12/Cs	AzaPro Insecticide/Nematicide - 32 oz.	\$165.00
GG-670003	2/Cs	AzaPro Insecticide/Nematicide - 1 Gal.	\$640.00
GG-670004	2/Cs	AzaPro Insecticide/Nematicide - 2.5 Gal.	\$1,250.00

Recommended Dosage:

Preventative Use: ¼ oz / 8 ml per gallon

Medium Infestation: 1 oz / 30 ml per gallon

Heavy Infestation: 2 oz / 60 ml per gallon



GARD'nCLEAN EXTENDED RELEASE



GC Extended Release is a next-generation, humidity activated ClO_2 generator for space deodorization, improving air quality for up to 30 days. GC Extended Release is an ideal addition to odor mitigation protocols for all spaces as well as limiting cross-contamination of odors. ClO_2 is a powerful biocide that utilizes oxidation to disinfect, sanitize, and deodorize. It is effective at killing harmful viruses, bacteria, fungi, and bioslimes. Unlike bleach, this product is not corrosive and is nontoxic, making it safe and effective for all working environments.

GG-670104	10/Cs	Gard'nClean Extended Release Deodorizer - 1K (1000 cu ft)	\$39.95
GG-670105	10/Cs	Gard'nClean Extended Release Deodorizer - 2.5K (2500 cu ft)	\$49.95
GG-670106	10/Cs	Gard'nClean Extended Release Deodorizer - 4K (4000 cu ft)	\$59.95
GG-670107	10/Cs	Gard'nClean Extended Release Deodorizer - 10K (10,000 cu ft)	\$99.95

GARD'nCLEAN FAST RELEASE

GC Fast Release generator is a true dry gas fumigation for deeply deodorizing spaces and environments, including hard to reach areas such as microscopic openings on non-sealed materials, HVAC ducting, electrical conduit, and much more. Due to the very small



size of the ClO_2 molecule, it can easily penetrate into all of these spaces to eradicate odors, ethylene gas, VOCs and other compounds from deep within. It is effective at killing harmful viruses, bacteria, fungi, and bioslimes. Unlike bleach, this product is not corrosive and is nontoxic, making it effective for all working environments.

GG-670100	10/Cs	Gard'nClean Fast Release Dry Gas Deep Deodorizer - 1K (1000 cu ft)	\$39.95
GG-670101	10/Cs	Gard'nClean Fast Release Dry Gas Deep Deodorizer - 2.5K (2500 cu ft)	\$49.95
GG-670102	10/Cs	Gard'nClean Fast Release Dry Gas Deep Deodorizer - 4K (4000 cu ft)	\$59.95
GG-670103	10/Cs	Gard'nClean Fast Release Dry Gas Deep Deodorizer - 10K (10,000 cu ft)	\$99.95

GARD'nCLEAN LIQUID MIX



GC Liquid Mix produces an OMRI listed, 99.9% ultra-pure ClO_2 at point of use, requiring only water, a sealed generation vessel, and our state of the art microreactor. ClO_2 is the world's only selective oxidizer, meaning it has a high oxidation potential, but a low oxidation strength. This unique structure is why ClO_2 is such an efficient biocide without being a dermal sensitizer or damaging costly infrastructure or contact surfaces. GC Liquid retains registrations from world regulatory agencies for the use on fruits, vegetables, meat, raw agricultural commodities, livestock, drinking water purification and many more.

(EPA Reg. # 74986 5 EPA Establishment No. 071441 OH 004)

GG-670108	10/Cs	Gard'nClean Liquid Mix Disinfectant - (makes 2 Gallons at 100ppm)	\$49.95
GG-670109	10/Cs	Gard'nClean Liquid Mix Disinfectant - (makes 12.5 Gallons at 100ppm)	\$99.95
GG-670110	8/Cs	Gard'nClean Liquid Mix Disinfectant - (makes 30 Gallons at 100ppm)	\$149.95



HOW MUCH GARD'nCLEAN DOES YOUR FACILITY NEED?

Use the Gard'nClean calculator to find out.



454 BAGS BIOPLASTIC VACUUM BAGS

454 Bags' revolutionary, patented BioPlastic blend has been 3 years in the making – AND IT'S AVAILABLE NOW!

454 BAGS' BIOPLASTIC VACUUM BAGS:

- ▶ Stronger Than Plastic - More Secure Seal Than Plastic
- ▶ 100% Oxygen Barrier
- ▶ Antimicrobial and Antibacterial – (Mold and Mildew Can't Survive in the Bag)
- ▶ USDA Bio-Preferred Status
- ▶ Landfill Compostable – (These Bags Breakdown in a Landfill Environment and Leave NO TRACE.)
- ▶ Heavy Oversight to Ensure Highest Quality
- ▶ Organic Raw Materials - Clean Manufacturing Process
- ▶ FDA Food Grade



These bags are pre-cut and come in 2 sizes – 11" x 24" and 15" x 20". The 11" x 24" bags come with or without resealable zippers. They can be used with standard or commercial vacuum sealers (please ensure your vacuum sealer is wide enough to fit the shortest edge of the bag).

Black on one side for UV protection and clear on the other side for easy viewing. 100% Oxygen barrier means that no odor can get out and no oxygen/air can get in. You can feel safe with storage, shipping and transportation. Regular plastics can't do what these bags can. 454 Bags' BioPlastic is a stronger plastic that offers a better seal and prevents mold and mildew from surviving inside the bag.

With the USDA Bio-Preferred status you can rest assured that this is the highest quality BioPlastic on the market. Pesticide and heavy metal free. After you're done with the bags just toss them in trash and know they will quickly breakdown into organic material and leave NO TRACE.

GG-690164	454 Bags BioPlastic Vacuum Bags - Black/Clear - 11" x 24" (50 Pack)	\$54.95
GG-690168	454 Bags BioPlastic Vacuum Bags - Black/Clear - 15" x 20" (50 Pack)	\$59.95
GG-690160	454 Bags BioPlastic Vacuum Bags w/ Resealable Zipper - Black/Clear - 11" x 24" (50 Pack)	\$68.95

454 BAGS BIOPLASTIC DRUM LINERS

Crafted with precision, 454 Bags' BioPlastic 55 Gallon Drum Liner this fully biodegradable liner is tailored to seamlessly fit standard 55-gallon drums, the 454 Bags drum liner acts as a robust barrier, offering unparalleled protection for your valuable harvest.

This drum liner is BPA and Nylon Free, providing you with a cleaner and safer solution that won't leech harmful plastic residues onto your precious flowers. USDA Bio-Preferred certified, the 454 Bags drum liner meets the highest standards of quality and compliance. With a softer plastic construction, the BioPlastic drum liner ensures a gentle touch that won't strip your trichomes, preserving the potency and quality of your cannabis buds. It has been meticulously formulated exclusively for flower, making it the only bag specifically designed to meet the unique needs of your harvest.



GG-690175	454 Bags BioPlastic 55 Gallon Drum Liner - 36" x 58" (30 Pack)	\$94.95
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454 BAGS TOTE & DRUM LINERS

Not All “Tote Liners” are Created Equal

Other brands just take traditional tote liner plastic, which was never designed for cultivation, and push them to the cultivation industry. 454 Bags formulated their plastic specifically for cultivation.

454 Bags’ Tote Liners use a plastic formulated for better terpene, color and nose preservation. They are also thicker for better odor control and puncture resistance.

454 Bags Tote Liners come in 2 sizes:

54" x 36" – Fits totes up to 38 gallons

80" x 36" – Fits totes up to 55 gallons

454 Bags made their tote liners bigger than the competition because they know the pain of a tight fitting liner. They give you plenty of extra space so you can fill the tote and still have plenty of slack.

The bags come on rolls with easy tear perforations. The boxes they come in double as a dispenser. No more struggling trying to get a single bag out!

Get yours today! Made in the USA.



GG-690143	454 Bags 55 Gallon Tote/Bin Liner - 80" x 36" (Roll of 75)	\$189.95	
GG-690140	454 Bags Tote Liners - 54" x 36" (Roll of 125)	\$189.95	
GG-690146	454 Bags 55 Gallon Drum Liner - 36" x 58" (Roll of 100)	\$189.95	- COMING SOON!
GG-690148	454 Bags Table/Tray Liner - White, 4 mil. - 80" x 500'	\$434.95	- COMING SOON!

454 BAGS 5 GALLON BUCKET LINER

The 454 Bags 5 Gallon Bucket Liner is the same great product as their 22" x 26" Oversized “Not For Turkey” Bag. Same great price. Same great quality. If you’re looking for a liner for your 5 gallon bucket, this is it!

454 Bags are formulated specifically for flower. Preserve your product in a bag that was made to store it. 454 Bags’ 5 Gallon Bucket Liners are made from a special plastic blend formulated for better color and nose preservation. They also made their bags bigger than the competition because they know the pain of trying to tie bags without enough slack. Made in the USA.

These 5 gallon bucket liners give you plenty of extra space so even the fluffiest pounds are easy to tie. They are thicker for better odor control and puncture resistance.

Size: 22" x 26"

Holds 1-3 lbs of flower

Roll of 300 with easy tear perforations

Box doubles as a built-in dispenser

Bucket not included



GG-690124	454 Bags 5 Gallon Bucket Liner - 22" x 26" (Roll of 300)	\$149.95
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454 BAGS VACUUM BAGS

454 Bags' plastic gives superior odor protection and preservation with less plastic thickness. This means you use less plastic for better control. These bags also provide a stronger seal than competing bags. 454 Bags' plastic bonds together when sealed. So whether you're storing your product or shipping it out, 454 Bags gives you a seal you can trust. These vacuum bags take less energy to manufacture and are produced with a much cleaner process than other vacuum bags. These bags can be recycled curbside just like you would a water bottle.



GG-690111	454 Bags Vacuum Bag - Black/Clear- 11" x 24" (50 Pack)	\$39.95
GG-690101	454 Bags Vacuum Bag - Black/Clear - 15" x 20" (50 Pack)	\$49.95

454 BAGS OVERSIZED "NOT FOR TURKEY" BAGS

454 Bags' "Not For Turkey" Bags are made from a special plastic blend specifically formulated for flower to help maintain better terpene, color and nose preservation. They also made their bags bigger than the competition because they know the pain of trying to tie bags without enough slack. 454 Bags' Oversized "Not For Turkey" Bags come on rolls with easy tear perforations and a box that doubles as a built in dispenser. No more mess trying to get a single bag out! Made in the USA.



454 offers 2 sizes of their OVERSIZED "Not For Turkey" Bags – 33" x 40" and 22" x 26". (compared to the competition's 18" x 20" bags) Each of these bags gives you plenty of extra space so even the fluffiest pounds are easy to tie. They are thicker for better odor control and puncture resistance. The 33" x 40" bag will easily fit up to 5 lbs of flower. The 22" x 26" bag fits 1-3 lbs of flower. The 22" x 26" bag also lines a 5 gallon bucket.

GG-690118	454 Bags Oversized "Not for Turkey Bags" - Fits 5lb - 33" x 40" (Roll of 50)	\$84.95
GG-690120	454 Bags Oversized "Not for Turkey Bags" - Fits 1-3lb - 22" x 26" (Roll of 300)	\$149.95

454 BAGS SPACE SAVER BAGS

454 Bags' Space Saver bags are a simple and easy way to vacuum seal large quantities of products with a regular vacuum cleaner for preservation or consolidation. You can place the flower directly into the bag or you can use it to store filled turkey bags, adding a vacuum protection. The bags expand into a cube that is 31.5" x 39" x 15" and can fit up to 25 pounds of flower. The bags have a re-sealable zipper along the top so they can be re-used over and over. 454 Bags also formulated an extra durable plastic for ultimate odor control and longevity. The bags vacuum down with a vacuum cleaner through an easy to use valve on the front.



GG-690150	454 Bags Space Saver Bags - 31.5" x 39" x 15" (2 Pack)	\$15.95
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GROWMAX WATER™ FILTRATION SYSTEMS

GrowMax Water™ Filtration Systems increase the effectiveness of your nutrients and fertilizers helping you grow healthier, higher-yielding plants, flowers, gardens, fruits, and vegetables.

Adding a GMW Filtration System to your garden will help strengthen plant roots and protect your soil's beneficial bacteria. Simple set up and maintenance - easy to place and connect to your garden hose spigot, and straightforward replacement of our CleanGreen™ Carbon Block and MaxPur™ sediment filters.



- 1 Filter Bracket: Weather resistant powder coated steel bracket integrates with GMW mounting stake.
- 2 GMW Filter Housings: Double O-ring seals provide water-tight filter housings. UV-safe opaque housings prevent algae and bacteria growth.
- 3 FloCheck™ Regulator: Regulates water-to-filter contact time for optimum filtration.
- 4 Water Tubing Connections: Simply connect your hoses, and you are ready to grow!
- 5 MaxPur™ Sediment Filter: Removes sediment and other solids, extending the performance and life of the CleanGreen™ filter.
- 6 GMW CleanGreen™ Carbon Block Filter: GMW green carbon block filter significantly improves the water quality that your plants use to grow.

GG-660300	GrowMax Water Filtration System Eco Grow 240 (treats 10k gal.)	\$135.00
GG-660301	GrowMax Water Filtration System Super Grow 800 (treats 15k gal.)	\$320.00
GG-660302	GrowMax Water Filtration System Pro Grow 2000 (treats 25k gal.)	\$420.00



GROWMAX WATER™ RO SYSTEMS

GrowMax Water™ Reverse Osmosis Systems increase the effectiveness of your nutrients and fertilizers helping you grow healthier, higher-yielding plants, flowers, gardens, fruits, and vegetables.

Adding a GMW Filtration System to your garden will help strengthen plant roots and protect your soil's beneficial bacteria. Easy replacement of our CleanGreen™ Carbon Block and MaxPur™ sediment filters.



- 1 Filter Bracket: Weather resistant powder coated steel bracket integrates with GMW mounting stake.
- 2 GMW Filter Housings: Double O-ring seals provide water-tight filter housings. UV-safe opaque housings prevent algae and bacteria growth.
- 3 FloCheck™ Regulator: Regulates water-to-filter contact time for optimum filtration.
- 4 Quick Connect Fittings: Includes indoor and outdoor inlet feed water connections.
- 5 MaxPur™ Sediment Filter: Removes sediment and other solids, extending the performance and life of the CleanGreen™ filter.
- 6 GMW CleanGreen™ Carbon Block Filter: GMW green carbon block filter significantly improves the water quality that your plants use to grow.
- 7 GrowMax Water Membrane: High flow 150 GPD membrane eliminates up to 95% of salts and heavy metals.
- 8 Pressure Gauge: Assures minimum (40 PSI) and optimum working pressure (60+ PSI).
- 9 GMW DI Filter: Last stage deionization works to eliminate remaining EC / TDS. (EC Eliminator Only.)

GG-660306	GrowMax Water RO System Power Grow 500 (150 GPD)	\$279.00
GG-660307	GrowMax Water RO + DI System EC Eliminator (150 GPD)	\$329.00
GG-660308	GrowMax Water RO System Mega Grow 1000 (300 GPD)	\$399.00

GROWMAX WATER™ REPLACEMENT FILTERS



GG-660311



GG-660312



GG-660313



GG-660314



GG-660316



GG-660315*

GrowMax Water™ Carbon Block and Sediment Replacement Filters remove up to 99% of chlorine and VOCs (volatile organic compounds), and sediment down to 5 microns.

Item #'s GG-660311, GG-660313, GG-660316 include:

- 1 (one) CleanGreen Carbon Block filter
- 1 (one) MaxPur Sediment Filter; 5 microns

Item # GG-660312 includes:

- 2 (two) CleanGreen Carbon Block filters
- 1 (one) MaxPur Sediment Filter; 5 microns

GrowMax Water™ Replacement Deionization Filters are for use as a POST FILTER after the RO, to achieve 000 ppm / 0.0 EC Water. Each DI cartridge is good for removal up to 15,000 ppm.

Item # GG-660314 includes:

- 2 (two) Ultrapure Deionization cartridges

The GrowMax Water™ High Flow Membrane removes or reduces up to 95% of all mineral salts and heavy metals from tap water and produces up to 20 L/h (up to 500 L/d) of pure water.

Item # GG-660315 includes:

- 1 (one) 150 GPD High Flow Membrane

**also compatible with Hydrologic Stealth RO150 and Stealth RO300*



DON'T FORGET!

Filter Housing Wrench allows for easy removal of filter housings when replacing filter cartridges.

GG-660330

GG-660311	GrowMax Water Replacement Filter Pack - 10" (for Mega Grow 1000 / Eco Grow 240 / Power Grow 500 / EC Eliminator)	\$22.90
GG-660312	GrowMax Water Replacement Filter Pack (for Mega Grow 1000)	\$32.90
GG-660313	GrowMax Water Replacement Filter Pack (for Super Grow 800)	\$72.25
GG-660314	GrowMax Water Replacement DI Filter Pack (for EC Eliminator)	\$88.90
GG-660315	GrowMax Water High Flow Membrane (150 GDP)	\$89.90
GG-660316	GrowMax Water Replacement Filter Pack (for Pro Grow 2000)	\$142.25
GG-660330	GrowMax Water Filter Housing Wrench (for Eco Grow 240 and all RO's)	\$4.95

GROWMAX WATER™ RO BOOSTER PUMP KITS

The GrowMax Water™ RO Booster Pump Kits boost outlet pressure to 60+psi improving production and RO water quality. Recommended for use when inlet pressure is below 40psi. Each kit includes booster pump, transformer, shut off switch, and tubing.

Item #GG-660321 recommended for use with Power Grow 500 and EC Eliminator.

Item #GG-660322 recommended for use with Mega Grow 1000.



GG-660321	GrowMax Water RO Booster Pump Kit	\$109.00
GG-660322	GrowMax Water RO Booster Pump Kit - High Flow	\$139.00

GROWMAX WATER™ DEIONIZATION KIT

The GrowMax Water™ Deionization Kit is designed as a post filter to install after any RO unit, when you want to obtain ultrapure 000ppm / 0.0 EC Water. Kit comes complete with filter housing, DI cartridge, mounting bracket, quick connect fittings, ball valve shut off and tubing



GG-660317	GrowMax Water Deionization Kit - 10"	\$79.90
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GROWMAX WATER™ VALVES, ADAPTERS, CONNECTORS, & TUBING



GG-660323



GG-660324



GG-660325



GG-660326



GG-660327, GG-660328, GG-660329

Float Valve Kit - Prevent overflow of any tank or reservoir. Shuts off RO unit production when full. Connect to 1/4" product water tubing on all RO units. (#GG-660323)

Inline Ball Valve/Shut Off - 1/4" to 1/4" straight inline ball valve with quick connect fittings. Use for water shut off on Eco Grow 240 and all RO units. (#GG-660324)

Indoor Feed Water Adapter - Connect to 1/2" inlet water pipes or 3/8" (with reducer). Good for use with GrowMax Water™ Garden RO systems, using 3/8" inlet tubing. (#GG-660325)

Garden Spigot Quick Connect - Easy connection to any garden hose spigot. Good for use with GrowMax Water™ Garden RO systems, using 3/8" inlet tubing. (#GG-660326)

PE Tubing - 1/4" Blue tubing used for product water line. 1/4" Black tubing used for drain water line. 3/8" White tubing used for inlet/feed water line. Recommended for use with Power Grow 500, Mega Grow 1000, and EC Eliminator. (#GG-660327, 28, 29)

GG-660323	GrowMax Water Float Valve Kit - 1/4" Tube	\$18.90
GG-660324	GrowMax Water Inline Ball Valve/Shut Off - 1/4" (for Eco Grow 240 and all RO's)	\$6.95
GG-660325	GrowMax Water Indoor Feed Water Adapter - 1/2" NPT, 3/8" Tube (for all RO's)	\$9.95
GG-660326	GrowMax Water Garden Spigot Quick Connect - 3/4" GHT, 3/8" Tube (for all RO's)	\$6.95
GG-660327	GrowMax Water PE Tubing - Blue, 1/4", 30 ft. (for product water)	\$9.75
GG-660328	GrowMax Water PE Tubing - Black, 1/4", 30 ft. (for drain water)	\$9.75
GG-660329	GrowMax Water PE Tubing - White, 3/8", 30 ft. (for inlet/feed water)	\$11.75

GARD'nCLEAN TEST STRIPS

The Gard'nClean Chlorine Dioxide Testing Strips are a convenient way to test for chlorine dioxide levels in sanitized water. Use the Low Range to test for concentrations between 0 and 10 ppm. Use the Wide Range to test for the following concentrations 0, 10, 25, 50, 100, 250, 500 ppm. In under a minute, you can get an accurate reading.

GG-660100	Gard'nClean Chlorine Dioxide Test Strips - Wide Range	\$24.95
GG-660101	Gard'nClean Chlorine Dioxide Test Strips - Low Range	\$24.95



LINIS GROW IN-LINE CATALYTIC GARDEN HOSE FILTER



This garden hose filter has been specially designed to fit any standard garden hose thread. It removes chlorine, chloramines, and harmful VOCs commonly found in water supplies. The garden hose filter can be used for any of your outdoor water needs where cleaner water is desired. Removes 98% of chlorine.

GG-660200	Linis Grow Catalytic In-line Garden Hose Filter	\$49.95
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GROW MEDIA

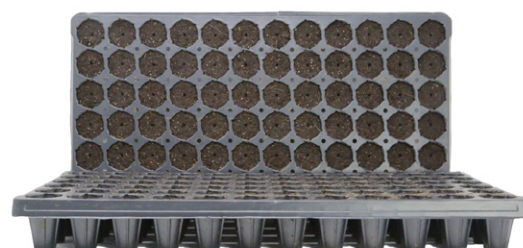
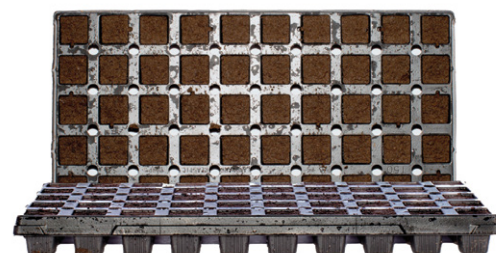


REDIROOTED® AERATING PLUGS BY JIFFY®

RediRooted® Aerating Plugs by Jiffy® feature a uniform substrate with hundreds of micro air pockets evenly distributed throughout the plug. These air pockets stimulate superior fibrous root growth throughout the volume of the plug, making transplanting quicker and greatly reducing the risk of root damage and disease.

RediRooted® Aerating Plugs consistently retain an air content of 30% or more, which means no compaction, even under heavy misting conditions. This makes it an ideal propagation medium, providing an optimal environment for fast and uniform rooting.

The plant plug binder's structure ensures no transplant shock. This means you can ship or transplant the plugs earlier, freeing up valuable bench space in order to rotate the crops faster.



GG-650071	6/Cs	RediRooted Aerating Plugs by Jiffy - 72 Cell Tray	\$19.95
GG-650072	8/Cs	RediRooted Aerating Plugs by Jiffy - 50 Cell Tray	\$19.95

CULTIWOOL STARTER PLUGS

Cultiwool starter plugs are known for their uniformity and firmness, and are ideal for growing crops in a hydroponic system. This high quality stone wool is a clean and inert product. Therefore, it provides a sterile environment and does not contain any harmful bacteria or pollutants which can affect root and shoot development. It does not lock up or release any substances, ensuring all water and nutrients are available to the plant.

Use the starter plugs for your start prior to transplanting into larger Cultiwool growing blocks.



GG-640005	25, 84-Plug Sheets/Cs	Cultiwool AO-Rooting Plugs - 1.4" x 1.4" x 1.6"	\$441.95
GG-640010	2250 Blocks/Cs	Cultiwool Mini-Blocks - 1.6" x 1.6" x 1.6"	\$379.95

CULTIWOOL GROWING BLOCKS

The Cultiwool substrate blocks are provided with drain grooves at the bottom to improve the water-flow under the block. This is especially useful when the substrate blocks are placed on cultivation tables and concrete floors. Another benefit of the drain grooves under the block is that it will limit the contact surface with the ground. This will avoid bringing diseases into the plant via weak roots often in combination with too high temperatures.

The 6x6x4 and 6x6x6 Cultiwool Blocks come with a donut ring - a water chamber around the plug hole to place irrigation drippers. With the donut ring you will achieve an even more homogeneous distribution of the water.



GG-640015	216 Blocks/Cs	Cultiwool Blocks - 4" x 4" x 2.5"	\$179.95
GG-640020	144 Blocks/Cs	Cultiwool Blocks - 4" x 4" x 4"	\$189.95
GG-640025	64 Blocks/Cs	Cultiwool Blocks - 6" x 6" x 4" with Donut Ring	\$194.95
GG-640030	48 Blocks/Cs	Cultiwool Blocks - 6" x 6" x 6" with Donut Ring	\$189.95
GG-640032	18 Blocks/Cs	Cultiwool Blocks - 8" x 8" x 8"	\$134.95

CULTIWOOL MINI-SLABS

Cultiwool's stone wool growing slabs provide the final stage for growing crops. Cultiwool slabs come standard with a vertical fibre orientation. Cultiwool stone wool is used worldwide by professional cultivators. It allows them to grow top quality crops with fewer inputs. The basis of a successful grow for a longer period is a substrate with a superb and consistent homogeneity.



GG-640035	36 Slabs/Cs	Cultiwool Mini-Slabs - 10" x 8" x 3"	\$191.95
GG-640040	16 Slabs/Cs	Cultiwool Slabs - 36" x 6" x 3"	\$162.95

EVOCOIR PLATINUM COCO GROW MEDIA IN OPEN TOP GROW BAGS

Evocoir P-O-T's (Professional Open Top) are open top grow bags designed for professional growers or anyone wanting professional results. Evocoir Platinum Line (Buffered in Calcium Nitrate) is the highest quality, best performing substrate(s) available on the market.



Biodegradable Bags

COCO TREATED WITH CALCIUM NITRATE

All Evocoir Platinum line products are buffered with calcium nitrate using Evocoir's exclusive treatment and manufacturing process that was developed and perfected through years of collaboration between the world's brightest chemical engineers and real world growers. The result is THE Premium Coco Coir Open Top Grow Bag.

30/70 COCO BLEND

Evocoir's standard Platinum P-O-T utilizes a coir blend that is 30% chunk and 70% 16mm pith. This blend was designed specifically for use with MJ crops. The 30/70 blend combines excellent water retention and superior drainage over the competition's standard 8 and 16mm coir products.

- ▶ 30/70 Chunk/Pith Blend allows for flexibility in watering and fertilization
- ▶ 30% Chip ensures proper aeration for superior root development
- ▶ 70% 16mm Pith for added water holding capacity
- ▶ 100% organic coco coir base ensures fully sustainable and renewable substrate



Plastic Bags with Bottom Filter

SHIPS COMPRESSED

Evocoir P-O-T's ship to you compressed to maximize shipping and ease of setup. Just plug in your drippers to the pre-drilled top holes, or hydrate with your preferred method (top water, flood, etc.) and the P-O-T will fully expand and be ready for use in just a few short minutes. (Expansion time may vary depending on flow rate or amount of water being provided. Full expansion generally requires approx. 0.6 gallons of water per 1 gallon bag, 1.2 gallons of water for the 2 gallon bag, and 1.8 gallons of water for the 3 gallon bag.) Each pot includes added drain holes to provide additional air pruning and uniform drainage. Available in biodegradeable bags or plastic bags with bottom filter.

DIMENSIONS:

- ▶ 1 Gallon Pot: Compressed: 6.5" x 5.5" x 2" Expanded: 7" x 6" x 8"
- ▶ 2 Gallon Pot: Compressed: 7" x 7" x 3" Expanded: 7.5" x 7.5" x 9.5"
- ▶ 3 Gallon Pot: Compressed: 9.3" x 7.3" x 2.5" Expanded: 9.8" x 7.8" x 8.8"

GG-640100	20/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Biodegradable Bag - 1 Gallon	\$2.98
GG-640110	20/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Biodegradable Bag - 2 Gallon	\$3.98
GG-640120	10/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Biodegradable Bag - 3 Gallon	\$4.98
GG-640105	20/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Bag w/ Bottom Filter - 1 Gallon	\$2.98
GG-640115	20/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Bag w/ Bottom Filter - 2 Gallon	\$3.98
GG-640125	10/Cs	Evocoir Platinum 70/30 Treated Coco Blend - Open Top Bag w/ Bottom Filter - 3 Gallon	\$4.98



REDIROOT® FABRIC AERATION POTS

RediRoot® fabric pots are a tree and plant growing container designed to utilize a process called air root pruning. This process effectively prunes fibrous roots when they hit the air and sends a signal to the plant or tree to produce new fibrous root growth, which is key for the growth and transplant potential of the whole plant. Felt made with PET fiber; PET Fabric Weight: 170g.

Available in sizes up to 1000 gallon. Contact us for more information.

BLACK FABRIC

		Diameter	Height	Volume	SRP
GG-650000	RediRoot Fabric Aeration Pot - Black - 1 Gal. (Pack of 5)	7.00	6.30	1.05	\$6.45
GG-650001	RediRoot Fabric Aeration Pot - Black - 2 Gal. (Pack of 5)	8.00	7.00	1.52	\$7.95
GG-650002	RediRoot Fabric Aeration Pot - Black - 3 Gal. (Pack of 5)	11.80	8.30	3.93	\$10.45
GG-650003	RediRoot Fabric Aeration Pot - Black - 5 Gal. (Pack of 5)	12.60	10.30	5.56	\$12.95
GG-650005	RediRoot Fabric Aeration Pot - Black - 10 Gal. (Pack of 5)	17.90	12.20	13.29	\$19.95
GG-650007	RediRoot Fabric Aeration Pot - Black - 20 Gal. (Pack of 5)	21.00	15.00	22.49	\$29.95
GG-650008	RediRoot Fabric Aeration Pot - Black - 30 Gal. (Pack of 5)	26.00	16.00	36.77	\$41.45

BLACK FABRIC WITH HANDLES

		Diameter	Height	Volume	SRP
GG-650022	RediRoot Fabric Aeration Pot - Black w/ Handles - 3 Gal. (Pack of 5)	11.80	8.30	3.93	\$11.25
GG-650023	RediRoot Fabric Aeration Pot - Black w/ Handles - 5 Gal. (Pack of 5)	12.60	10.20	5.56	\$14.60
GG-650024	RediRoot Fabric Aeration Pot - Black w/ Handles - 7 Gal. (Pack of 5)	14.00	12.00	8.00	\$18.75
GG-650025	RediRoot Fabric Aeration Pot - Black w/ Handles - 10 Gal. (Pack of 5)	17.90	12.20	13.29	\$22.10
GG-650026	RediRoot Fabric Aeration Pot - Black w/ Handles - 15 Gal. (Pack of 5)	20.10	14.00	19.23	\$27.10
GG-650027	RediRoot Fabric Aeration Pot - Black w/ Handles - 20 Gal. (Pack of 5)	21.00	15.00	22.49	\$33.10
GG-650028	RediRoot Fabric Aeration Pot - Black w/ Handles - 30 Gal. (Pack of 5)	26.00	16.00	36.77	\$46.10

TAN FABRIC

		Diameter	Height	Volume	SRP
GG-650030	RediRoot Fabric Aeration Pot - Tan - 2 Gal. (Pack of 5)	8.00	7.00	1.52	\$7.95
GG-650031	RediRoot Fabric Aeration Pot - Tan - 3 Gal. (Pack of 5)	11.80	8.30	3.93	\$10.45
GG-650032	RediRoot Fabric Aeration Pot - Tan - 5 Gal. (Pack of 5)	12.60	10.30	5.56	\$12.95
GG-650033	RediRoot Fabric Aeration Pot - Tan - 7 Gal. (Pack of 5)	14.00	12.00	8.00	\$16.45
GG-650034	RediRoot Fabric Aeration Pot - Tan - 10 Gal. (Pack of 5)	17.90	12.20	13.29	\$19.95
GG-650035	RediRoot Fabric Aeration Pot - Tan - 15 Gal. (Pack of 5)	20.10	14.00	19.23	\$24.95
GG-650036	RediRoot Fabric Aeration Pot - Tan - 20 Gal. (Pack of 5)	21.00	15.00	22.49	\$29.95
GG-650037	RediRoot Fabric Aeration Pot - Tan - 30 Gal. (Pack of 5)	26.00	16.00	36.77	\$41.45
GG-650038	RediRoot Fabric Aeration Pot - Tan - 45 Gal. (Pack of 5)	27.00	18.00	44.62	\$45.95
GG-650039	RediRoot Fabric Aeration Pot - Tan - 65 Gal. (Pack of 5)	32.00	18.00	62.67	\$49.95
GG-650040	RediRoot Fabric Aeration Pot - Tan - 100 Gal. (Pack of 5)	38.00	20.00	98.20	\$79.95

TAN FABRIC WITH HANDLES

		Diameter	Height	Volume	SRP
GG-650052	RediRoot Fabric Aeration Pot - Tan w/ Handles - 5 Gal. (Pack of 5)	12.60	10.20	5.56	\$14.60
GG-650053	RediRoot Fabric Aeration Pot - Tan w/ Handles - 7 Gal. (Pack of 5)	14.00	12.00	8.00	\$18.75
GG-650054	RediRoot Fabric Aeration Pot - Tan w/ Handles - 10 Gal. (Pack of 5)	17.90	12.20	13.29	\$22.10
GG-650057	RediRoot Fabric Aeration Pot - Tan w/ Handles - 30 Gal. (Pack of 5)	26.00	16.00	36.77	\$46.10

HIGH DRO GRO GROW TENTS

HighDroGro has carved out their place in the top tier grow tent arena. HDG Grow Tents are not the everyday run-of-the-mill, silver lined, looks-like-everyone-else's grow tents.

HDG listened to hobby and pro-growers and took their time with design to create this versatile, clean cut, highly functional line of grow tents. And they've taken the industry by storm!

WHAT MAKES HIGH DRO GRO GROW TENTS DIFFERENT FROM OTHER GROW TENTS?

1 TEXTURED WHITE WALLS

HighDroGro is the first manufacturer to fit their grow tents with a muted white interior. And there is science behind that decision. Most grow tents on the market have silver lined interior walls to aid in light reflectivity. The problem with the silver reflective material is that it creates hot spots of reflectivity, decreasing uniformity and potentially burning plants.

HDG's textured white interiors help to solve this problem.

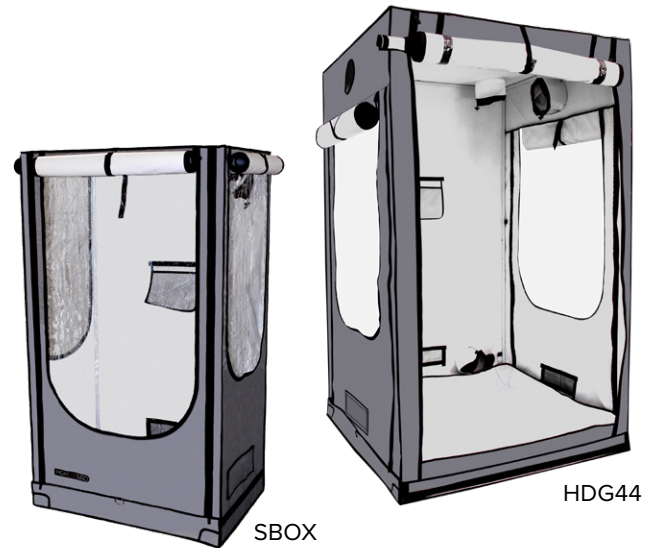
Independent studies have shown that the interior of HDG tents is 7% more reflective than competing tent interiors, and provides 16% more light distribution uniformity helping to minimize hot spots.

2 UNIQUE DESIGN

HighDroGro has revamped grow tent design by creating the first 3 door + 3 window configuration (patent pending). The HDG44 and HDG55 models have full zip doors on three sides as well as windows on three sides increasing both ease of access and visibility. Imagine not having to delicately maneuver around your plants to get to the ones in the back corner. Just unzip that side of the tent and BOOM! Easy access.

EACH TENT HAS:

- ▶ Tent Fabric Made up of 3 Bonded Layers:
 - (1) Outer Canvas w/ 600D Light Density
 - (2) Black PEVA Vinyl Center
 - (3) Low Gloss White PEVA Vinyl Interior
- ▶ Removable Inner Spill Tray
- ▶ Industrial Heavy Duty Zippers (designed for light elimination)
- ▶ White Powder Coated, Rust Resistant Steel Frame



SPECIFICATIONS

SBOX

Dimensions (w x d x h)	3'2" x 2' x 5'5" (96 x 62 x 168 cm)
Pole Diameter	16mm
# of Vents	3 Velcro Sealed (6" x 12")
# of Ducting Ports	1 at ceiling (4" diameter)
# of Electrical Ports	2 (3" diameter)
# of Doors	1 (front)
# of Windows	3 (front and both sides)

DBOX

Dimensions (w x d x h)	4'6" x 2'4" x 5'5" (136 x 72 x 165 cm)
Pole Diameter	16mm
# of Vents	3 Velcro Sealed (6" x 12")
# of Ducting Ports	1 at ceiling (6" diameter)
# of Electrical Ports	2 (3" diameter)
# of Doors	1 (front)
# of Windows	3 (front and both sides)

HDG35

Dimensions (w x d x h)	5' x 3' x 6' (152 x 92 x 183 cm)
Pole Diameter	16mm
# of Vents	3 Velcro Sealed (6" x 12")
# of Ducting Ports	1 at ceiling (6" diameter)
# of Electrical Ports	2 (3" diameter)
# of Doors	1 (front)
# of Windows	3 (front and both sides)

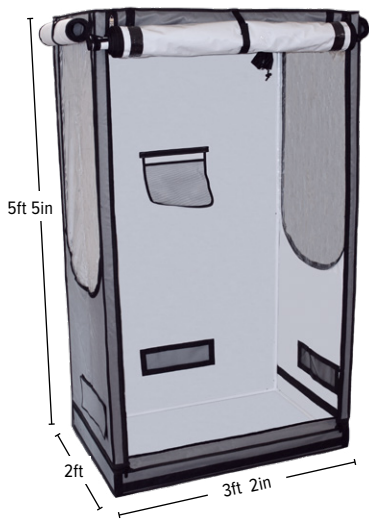
HDG44

Dimensions (w x d x h)	4' x 4' x 6'5" (120 x 120 x 200 cm)
Pole Diameter	19mm
# of Vents	3 Velcro Sealed (3" x 14")
# of Ducting Ports	5 (6" diameter)
# of Electrical Ports	4 (3" diameter)
# of Doors	3 (front and both sides)
# of Windows	3 (front and both sides)

HDG55

Dimensions (w x d x h)	5' x 5' x 6'8" (150 x 150 x 210 cm)
Pole Diameter	19mm
# of Vents	3 Velcro Sealed (3" x 14")
# of Ducting Ports	5 (6" diameter)
# of Electrical Ports	4 (3" diameter)
# of Doors	3 (front and both sides)
# of Windows	3 (front and both sides)

GG-700100	HDG Sbox Grow Tent - (3' x 2' x 5.5')	\$249.00
GG-700105	HDG Dbox Grow Tent - (2' x 4' x 5.5')	\$269.00
GG-700110	HDG35 Grow Tent - (3' x 5' x 6')	\$299.00
GG-700115	HDG44 Grow Tent - (4' x 4' x 6'5")	\$369.00
GG-700120	HDG55 Grow Tent - (5' x 5' x 6'9")	\$399.00



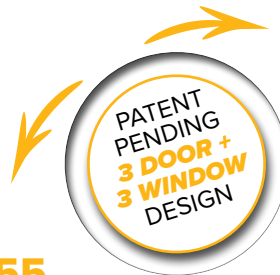
SBOX

The SBox will easily take 2-3 plants from start to finish. This compact tent is ideal for genetics projects, vegging, clones, plant quarantine, kitchen herb gardens, and so much more!



HDG35

HighDroGro's most popular model! A workhorse in any environment, the HDG35 gives the experienced grower a chance to spread their wings while still keeping their footprint light. At 6 ft tall, this tent gives your plants plenty of room to flourish!

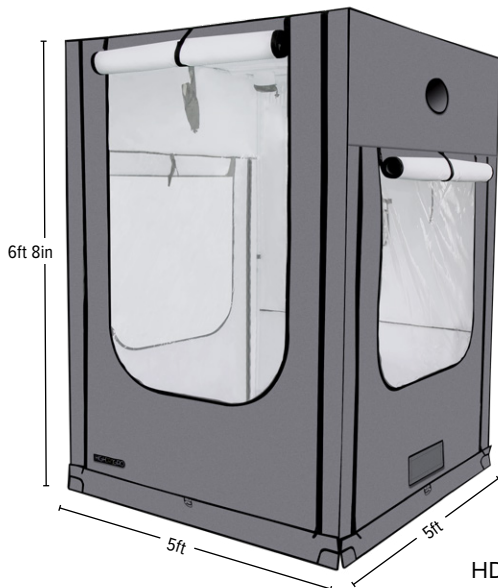


HDG55

The 5x5 is HDG's largest tent offering to date. Like the 4x4, the HDG55 has 3 fully opening doors, giving you easy access to 3 sides of your tent. Up until now, a tent this size could only be accessed through a single front door, forcing you to climb through your plants to reach the ones in the back, potentially introducing pests and other

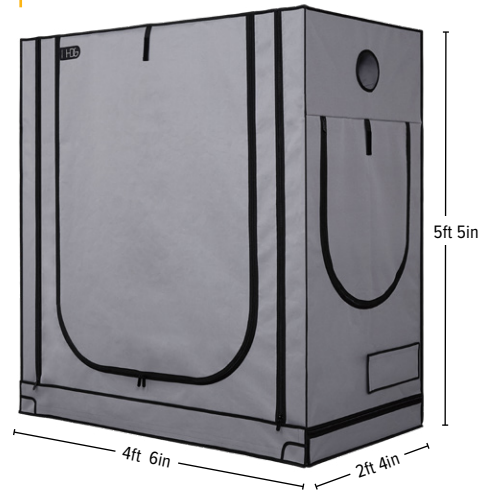
unwanted contaminants to your grow.

HDG has tackled this problem head-on with their patent pending 3-door + 3-window design. The potential here is limitless!



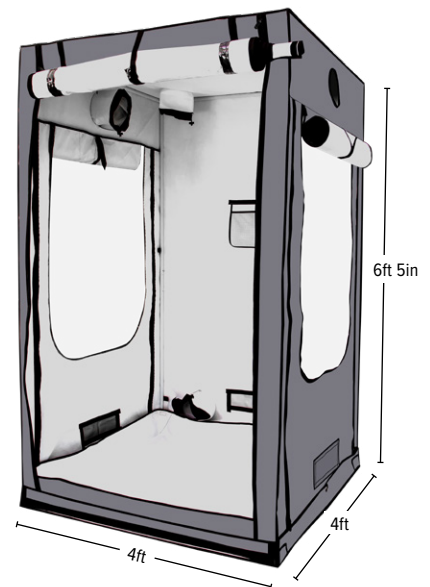
DBOX

Ideal for hobby growers and super enthusiasts alike, this small footprint tent is the perfect fit for a bedroom, game room, or any living area. Easily take 4-6 plants from start to finish without overwhelming your space with a giant tent.



HDG44

Ready to step up your game? The HDG44 is the perfect segue tent for hobbyists who are wanting to dive deeper into cultivation science. Perfect for pheno-hunting, breeding projects, or just growing a lot of big plants!



TDS & pH METERS



TDS-3
(GG-660002)



COM-80
(GG-660003)



PH-80
(GG-660000)



COM-100
(GG-660004)



PH-200
(GG-660001)



COM-300
(GG-660005)

TDS-3 - HANDHELD TDS METER WITH CARRYING CASE - (GG-660002)

With its rugged design and build, the TDS-3 is an ideal meter to check your ppm in your nutrient tank. It comes with a black vinyl carrying case.

COM-80 - EC/TDS HYDROTESTER SERIES - (GG-660003)

The COM-80 is easily the most advanced economically priced, reliable EC/ TDS meter on the market. With its versatility and durability, you can read or check your nutrient tank or runoff to optimize the health of your plants.

PH-80 - pH HYDROTESTER SERIES - (GG-660000)

The PH-80 has proven to be the MOST reliable pH meter in its price range. This economically priced meter is known for its reliability and accuracy. 1 button digital calibration. Remember to keep the probe hydrated in KCl Storage Solution.

COM-100 - WATERPROOF PRO SERIES EC/TDS METER - (GG-660004)

The COM-100 is a professional grade waterproof EC/TDS/Temp meter ideal for testing your hydroponic nutrient solution.

PH-200 - WATERPROOF PRO SERIES pH/TEMP METER - (GG-660001)

The PH-200 is a professional grade pH/Temp meter ideal for all pH testing water. With its advanced microprocessor it provides highly accurate dependable readings on a large LCD screen. This unit has a replaceable probe and a lanyard.

COM-300 - WATERPROOF PRO SERIES pH/EC/TDS/TEMP METER - (GG-660005)

The COM-300 is a professional grade waterproof pH/EC/TDS/Temp meter. This handy all-in-one meter gives you all the knowledge you need to know with water in the grow room.

GG-660002	HM Digital TDS-3 Pen Style TDS/EC/Temp Meter	\$19.95
GG-660003	HM Digital COM-80 Pen Style TDS/EC/Temp Meter	\$42.95
GG-660000	HM Digital PH-80 Pen Style pH/Temp Meter	\$46.50
GG-660004	HM Digital Pro Series COM-100 Pen Style TDS/EC/Temp Meter	\$74.95
GG-660001	HM Digital Pro Series PH-200 Pen Style pH/Temp Meter	\$99.95
GG-660005	HM Digital Pro Series COM-300 Pen Style pH/TDS/Temp Meter	\$159.95

COMBO MONITORS



HM-200
(GG-660008)



HM-100
(GG-660007)



HM-500
(GG-660009)

HM-200 - PORTABLE pH/EC/TDS/TEMP MONITOR - (GG-660008)

The HM-200 is a versatile portable pH/EC/TDS/Temp monitor ideal for spot checking various reservoirs or other areas in your grow room. It comes with a pH probe and EC/TDS/Temp probe.

HM-100 - CONTINUOUS pH/EC/TDS/TEMP MONITOR - (GG-660007)

The HM-100 is a pH/EC/TDS/Temp wall mount monitor. Keeping tabs on these parameters in your reservoir is a must in any professional grow environment.

HM-500 HYDROMASTER - CONTINUOUS pH/EC/TDS/TEMP MONITOR - (GG-660009)

The HM-500 is the most versatile wall mount monitor indicating EC/TDS, pH, and Temp providing accurate, stable readings the grower can rely on. With its rechargeable battery this versatile unit is portable or can be wall mounted. Also comes with touch screen, high and low alarm set points, and recorded readings.

GG-660008	HM Digital Hydromaster HM-200 Portable pH/TDS/EC/Temp Meter	\$274.95
GG-660007	HM Digital HM-100 Continuous pH/EC/TDS/Temp Monitor	\$299.99
GG-660009	HM Digital Hydromaster HM-500 Continuous pH/TDS/EC/Temp	\$359.95

CALIBRATION, BUFFER, & STORAGE SOLUTIONS

Use these solutions for TDS & EC Calibration, pH Buffering, and electrode storage.



GG-660010	HM Digital TDS 1000 ppm Calibration Solution Bottle	\$7.50
GG-660011	HM Digital TDS 1000 ppm Calibration Solution - 20 packets of 20ml	\$24.95
GG-660012	HM Digital pH Electrode Storage Solution - 60cc	\$6.95
GG-660013	HM Digital pH Electrode Storage Solution - 20 packets of 20ml	\$24.95
GG-660022	HM Digital pH 4.0 Buffer Solution - 20 packets of 20ml	\$24.95
GG-660014	HM Digital pH 7.0 Buffer Solution - 20 packets of 20ml	\$24.95
GG-660015	HM Digital 20 pack mix: 1000ppm TDS, pH 4, pH 7, pH Storage Solutions	\$24.95

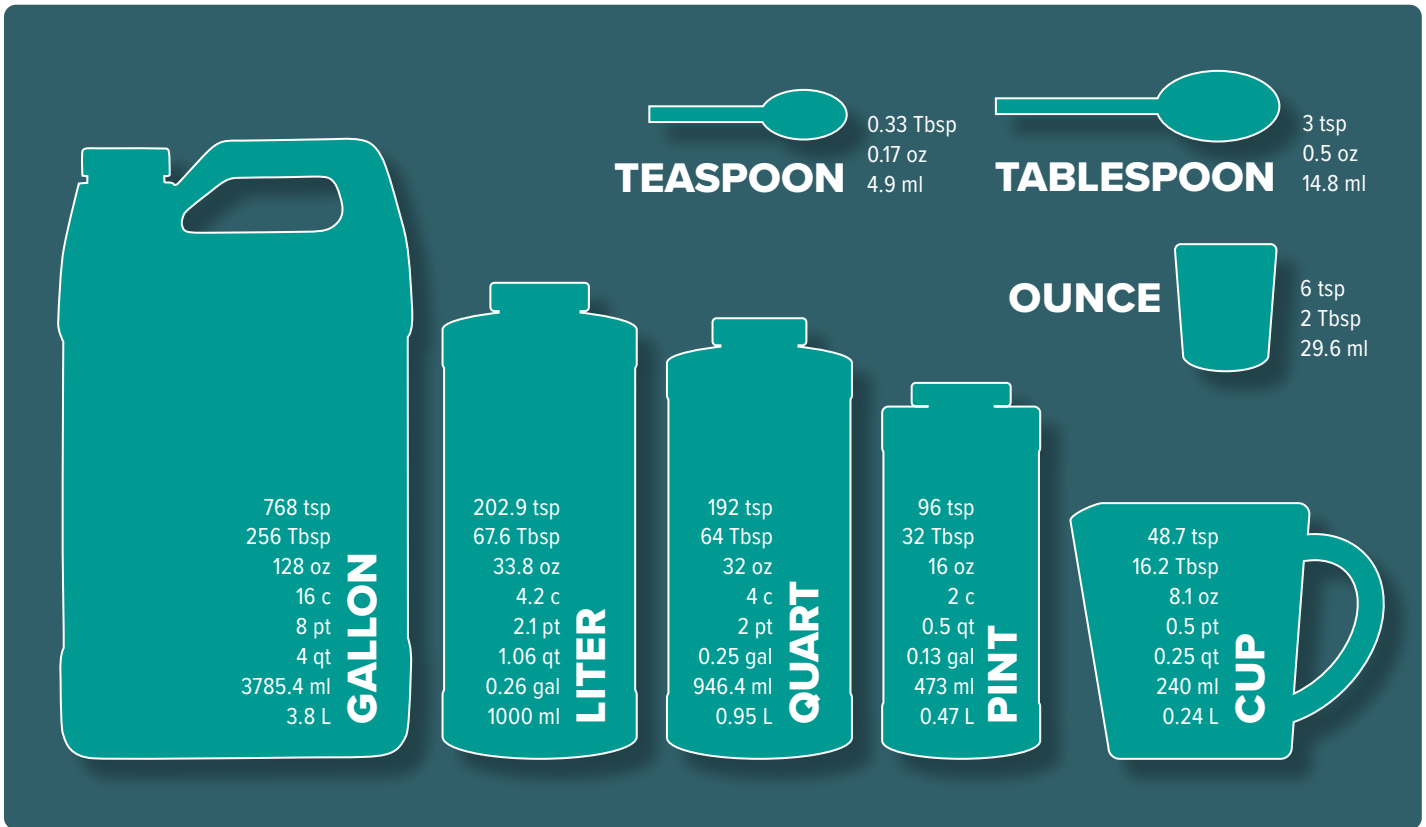
REPLACEMENT SENSORS FOR HM DIGITAL METERS



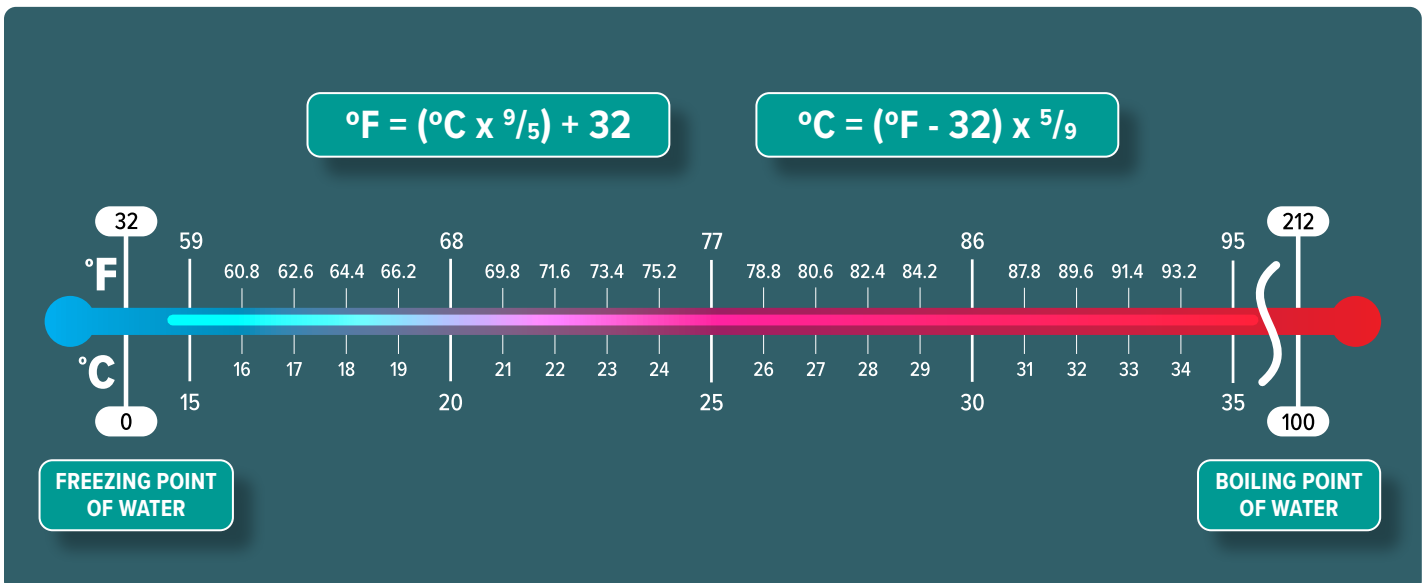
GG-660016	HM Digital Replacement pH Sensor for HM-500	\$54.95
GG-660021	HM Digital Replacement EC/TDS Sensor for HM-500	\$49.95
GG-660020	HM Digital Replacement EC/TDS Sensor for HM-100 and HM-200	\$49.95
GG-660017	HM Digital Replacement TDS/EC Sensor for COM-100	\$34.95
GG-660018	HM Digital Replacement Sensor for COM-300	\$62.95
GG-660019	HM Digital Replacement pH/Temp Sensor for PH-200	\$44.95

USEFUL TOOLS

LIQUID VOLUME CONVERSIONS



°F/°C TEMPERATURE CONVERSIONS



RECOMMENDED DOSAGES

BIONOVA	IRRIGATION FEEDING	FOLIAR SPRAY
Nutri Forte A	3-7 ml per gallon	
Nutri Forte B	3-7 ml per gallon	
Coco Forte A	3-7 ml per gallon	
Coco Forte B	3-7 ml per gallon	
Soil Supermix	5-10 ml per gallon	
PK 13-14	0.75-2 ml per gallon	1-2 ml per gallon
Roots	Use for the first 3 weeks of the growth cycle. Start with 3 ml per gallon and decrease by a half ml per week. Wk 1 = 3 ml / gal Wk 2 = 2.5 ml / gal Wk 3 = 2 ml / gal	
SiLution	0.75 ml per gallon	8 ml per gallon
X-ceL	2-4 ml per gallon	Use with SiLution and The Missing Link 5.75 ml SiLution (mix first), + 9.5 ml X-ceL and 9.5 ml The Missing Link.
Vitasol	1.5-4 ml per gallon	
The Missing Link	2-4 ml per gallon	19 ml per gallon (use max 3 times - during veg and week 1 of bloom)
BN-Zym	2-4 ml per gallon	
N 27	Max. 4 ml per gallon for nitrogen deficiencies. As a supplement during veg, add 1-4 ml per gallon.	9.5-19 ml per gallon.
P 20	Max. 4 ml per gallon for phosphorus deficiencies. For root growth and/or flowering, add 0.5-2 ml per gallon.	9.5-19 ml per gallon.
K 20	As a supplement during bloom, add 0.5-4 ml per gallon.	
Ca 15	In areas with soft water, 1-1.5 ml per gallon. When using RO water add 1-3 ml per gallon.	9.5-19 ml per gallon.
MgO 10	1-3 ml per gallon for magnesium deficiencies. When using RO water add 2-6 ml per gallon.	9.5-19 ml per gallon.
Micromix	1-2 ml per gallon.	9.5-19 ml per gallon
Microlife	28-57 g per ft ³ potting soil depending on the soil quality. Repetition while changing crops: 28 g per ft ³ potting soil. Work the product in well.	
Profimix	Mix 10 kgs per m ² (1076 ft ²) of soil and water regularly.	
pH +	1-1.5 ml per gallon. Adjust as needed.	
pH -	1-1.5 ml per gallon. Adjust as needed.	

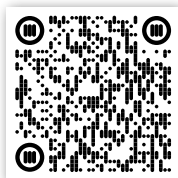
	GREEN HOUSE FEEDING	IRRIGATION FEEDING	DRY FEEDING / MIX-IN / TOP DRESS	FOLIAR SPRAY
MINERAL LINE	Grow	2.5-3 g per gallon		
	Hybrids	1.5-3 g per gallon		
	Long Flowering	1.5-3 g per gallon		
	Short Flowering	1.5-3 g per gallon		
	Booster	1-2 g per gallon		
	Calcium	2-5 g per gallon		
BIO LINE	BioGrow		Veg: 12-18 g per gallon of substrate. Mother Plants: 8-12 g per gallon of substrate every two months (as top dressing).	
	BioBloom		4-18 g per gallon of substrate.	
	Enhancer		2-4 g per gallon every two weeks.	3-5 g per gallon. Apply once every two weeks during veg.

ORGANITEK	IRRIGATION FEEDING
Amplify	1-3 ml per gallon

GROWER'S ALLY	PREVENTATIVE	CURATIVE
Crop Defender 3	10 ml per gallon every 7 days	40 ml per gallon every 3-5 days
Spider Mite Control	10 ml per gallon every 7 days	40 ml per gallon every 3-5 days
Fungicide	45 ml per gallon every 7 days	45 ml per gallon every 3-5 days

AZAPRO	PREVENTATIVE	CURATIVE
Insecticide/Nematacide	1/4 oz / 8 ml per gallon	Medium Infestation: 1 oz / 30 ml per gallon Heavy Infestation: 2 oz / 60 ml per gallon

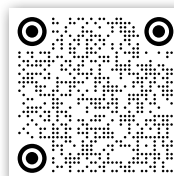
FEED CHARTS



Basic Chart

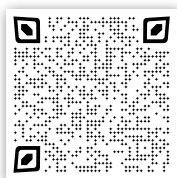
Professional
ChartHybrids
CocoShort Flowering
CocoLong Flowering
CocoHybrids
SoilShort Flowering
SoilLong Flowering
SoilCommercial
Rockwool

DIY Guide



Bio Line

CALCULATORS


Vapor Pressure Deficit
CalculatorGHF Mineral Line
Nutrient CalculatorGHF Bio Line
Nutrient CalculatorGard'nClean
Calculator





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