



**Custom Automated Products**

**420** Harley Knox Blvd.  
Perris, CA 92571

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# RETAIL CATALOG



2010





## ABOUT US



C.A.P. strongly believes that the only way to design and manufacture our line of greenhouse and hydroponic controllers is the right way. The right way means understanding what expectations our customers have when they make an investment in our products, and designing and manufacturing controllers and equipment that meet or exceed their expectations. The right way means paying attention to details and not cutting corners. We are constantly striving to produce the most innovative products in the industry made of only the finest components to ensure many years of trouble free operation. We will only build products that conform to our stringent safety standards. We back our products with the best warranty in the industry, our 5 year "no hassle - no problem" product warranty. All of C.A.P.'s controllers are assembled in the USA.

**Ask for C.A.P. !**



# New Products

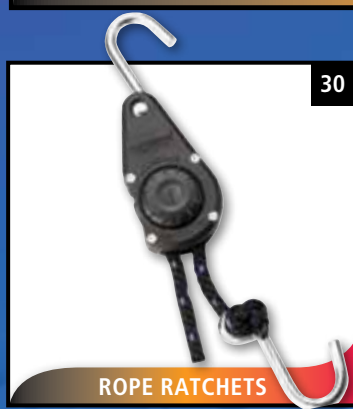


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XXXTREME REFLECTORS



C.A.P. VARIABLE FAN  
SPEED CONTROLLER  
(PG. 41)



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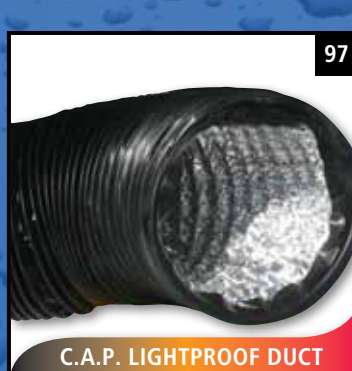
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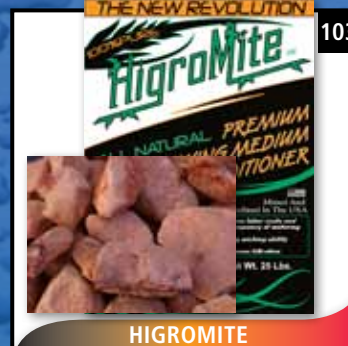
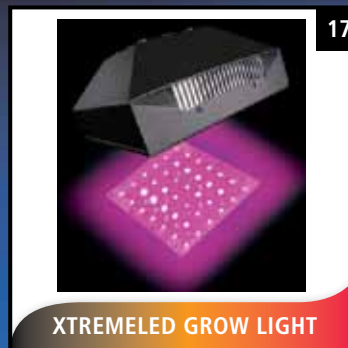


C.A.P. GRO POTS  
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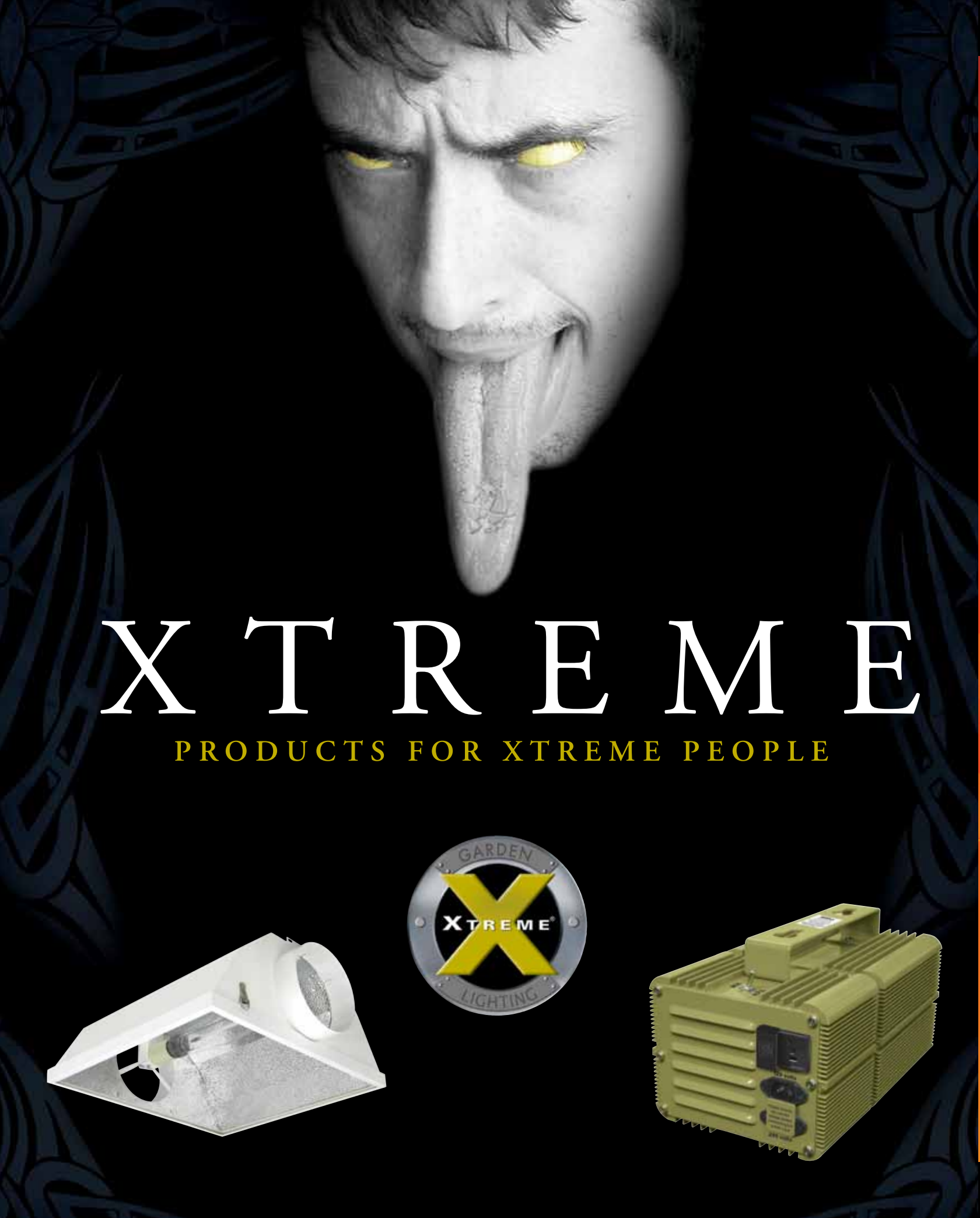
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# X T R E M E

PRODUCTS FOR XTREME PEOPLE





# LIGHTING







## THE IMPORTANCE OF PROPERLY LIGHTING YOUR INDOOR GARDEN



Both the professional and hobbyists communities generally accept that plants require a biased ratio of “blue” light during vegetative growth for enhanced performance. While the implementation of a “warm red” light during fruiting is regarded as the standard.

Green chloroplast cells within the plants preferentially utilize the blue color spectrum (4200k to 6700k) during vegetative growth over those that fall within the red to orange spectrum. As a result of this preferred association many studies have been conducted that indicate a strong morphological response within the plant that is expressed by the elongation of cells. This response equates to more vigorous and robust juvenile growth. The “infrastructure” derived as a result of an increase in blue light exposure, will allow the plant to effectively manage a large fruit load during harvest.

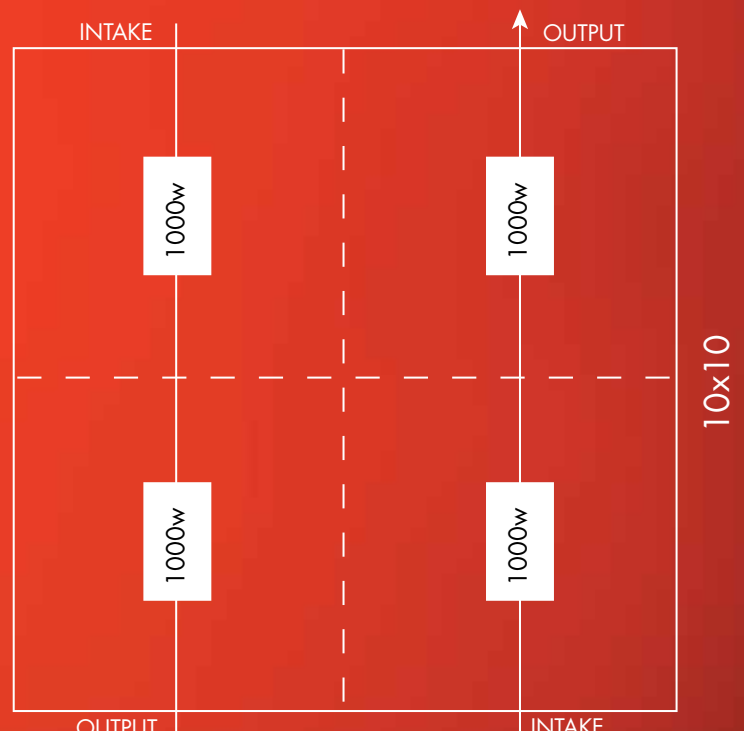
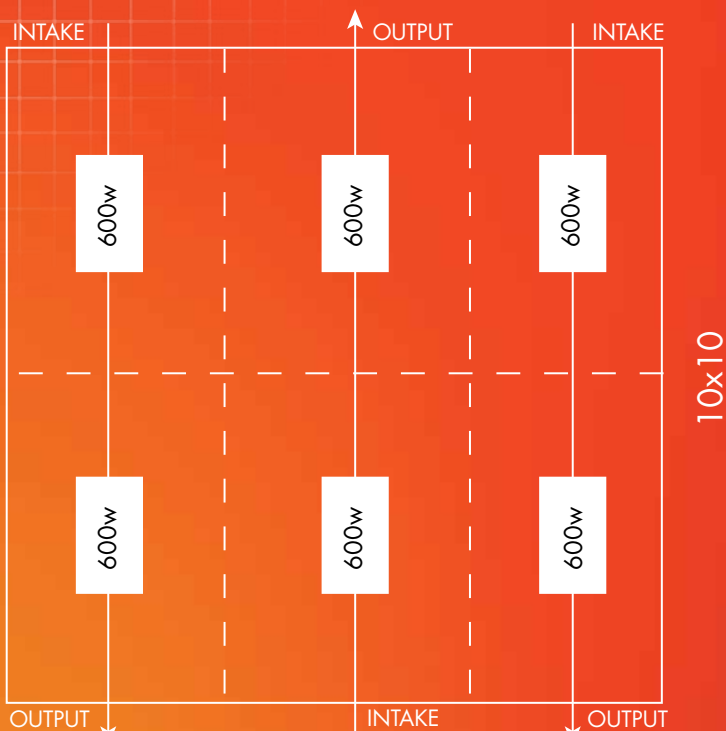
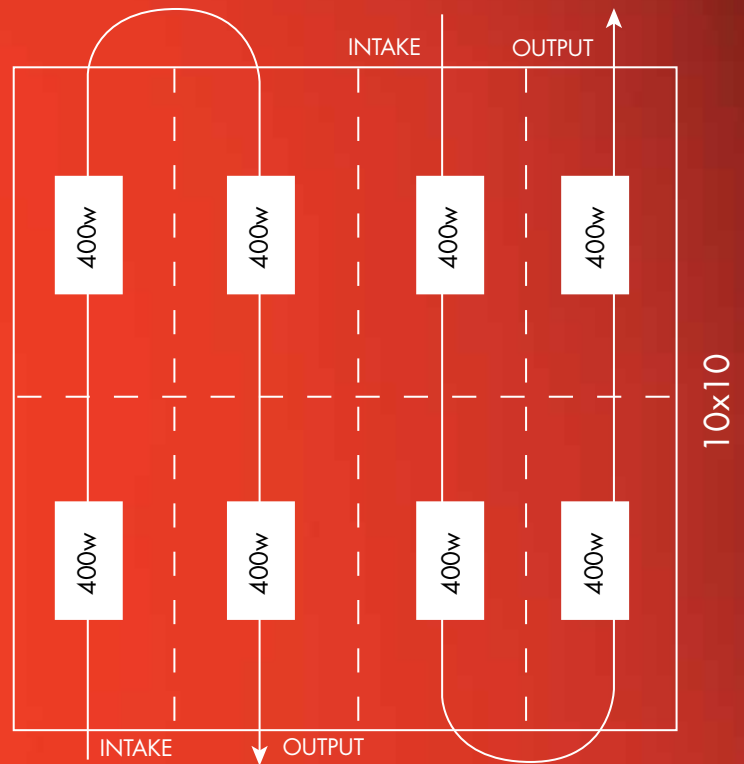
Similarly, “warm” light simulates autumn and when coupled with a decrease in the duration of the exposure will trigger a strong fruiting response in plants and encourage large yields, short internodal spacing and dense flower sets.



# HOW MUCH LIGHTING DO I NEED?

The following diagrams indicate a suggested lighting coverage for various wattage lamps, for a 10' x 10' area. Also included is a suggested air flow movement with duct and fans.

# 10'x10'



THE MOST RELIABLE DIGITAL BALLAST AVAILABLE....



## NEXTGEN™ DIGITAL BALLASTS

### NextGen™ Digital Ballasts

The NextGen™ Family of Digital Ballasts will run up to a 1000 watt bulb. With flicker-free operation, fast lamp ignition and a constant lamp voltage, they are perfect for the next generation of gardening. They produce up to 30% more light than a standard core and coil ballast, while putting out much less heat. The NextGens are the smallest ballasts available and weigh just 6 lbs for the 1000w model and 4¼ lbs for the 600w/400w, 600w, or 400w models. They can run at any voltage from 90v - 260v, making them very versatile. The Universal Lamp Receptacle will accommodate most manufacturer's reflector cords. In addition to these great features, NextGen Digital Ballasts can run your bulbs up to an amazing 65' away from the ballast. NextGen Digital Ballasts come with a 5 year warranty. (3 years full, 2 years pro-rated)



1000w



600w

RUNS DIGILUX 600W M.H. BULB!



600w/400w

Item	Description	MSRP
NG1000	1000w Switchable Digital Ballast - 90/260 volt . . . . .	\$398.95
NG600	600w Switchable Digital Ballast - 90/260 volt . . . . .	248.95
NG600/400	600w/400w Switchable Digital Ballast - 90/260 volt . . . . .	258.95
NG400	400w Switchable Digital Ballast - 90/260 volt . . . . .	188.95



**5 Year Warranty**  
3 Year Full, 2 Year Pro-Rated

Weight: 6.55 lb.  
Dimensions: 13" x 7" x 2"



1. C.A.P. & COMMON
2. HF
3. PL
4. FOREIGN

Universal Lamp Receptacle accepts most manufacturer's reflectors plugs

**400w**



Weight: 4 lb.  
Dimensions: 9½" x 7" x 2"

## EXCLUSIVE FEATURES

- 90v-260v Variable input voltage
- Universal lamp cord receptacle - accepts most manufacturer's lamp cords and reflector plugs
- Bulb can be run up to 65' from ballast without any light degradation
- Separate wall bracket included for easy mount - just slide it on!
- Built-in user friendly diagnostics for easy troubleshooting
- Available in 400w, 600w, 600w/400w and 1000w



## C.A.P. Xtreme® Switchable Ballasts

Xtreme Switchable Ballasts from Custom Automated Products are the best copper coil garden light ballasts available. The cases are extruded aluminum to provide cool operation and have a vibration dampening system for noise reduction. All C.A.P. lighting can be run at 120 or 240 volt. No rewiring is necessary. It comes with a 120 volt power cord, 240 volt power cords are available. All Xtreme ballasts will run H.P.S. or M.H. bulbs and feature a detachable lamp and power cord for ease of use and setup. The Xtreme Switchable Ballast features a new Multi-Lamp Receptacle for versatility.

**C.A.P. IS THE ONLY MANUFACTURER THAT CARRIES A LIFETIME REBUILD OR REPLACEMENT BALLAST WARRANTY!!**



**New Multi-Lamp Receptacle for Versatility!**

**Just flip a switch to change between H.P.S. and M.H. bulbs**

**Easily switched between 120 or 240 volt operation, no rewiring necessary**

**High temperature American made capacitor for long life**

**Ignitor for quick starts**

**Separate capacitor compartment for cooler temperatures and longer life**

**Copper magnetic core**

**Aluminum extrusion for heat dissipation**



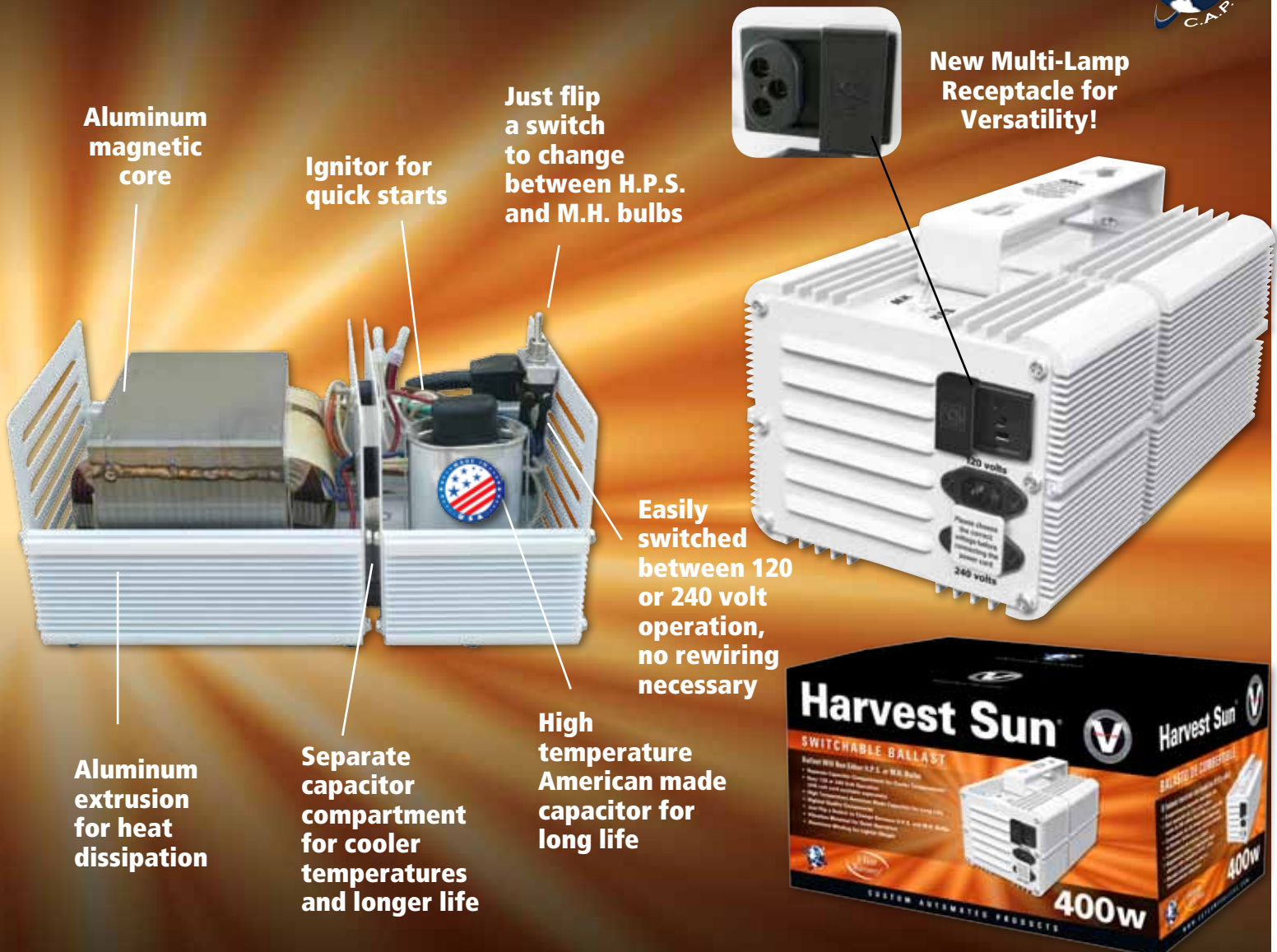
*The Last Ballast You'll Ever Buy!*

Item	Description	MSRP
BAL-1000X	1000w Switchable Xtreme Ballast. . . . .	\$259.95
BAL-600X	600w Switchable Xtreme Ballast. . . . .	229.95
BAL-400X	400w Switchable Xtreme Ballast. . . . .	209.95
BAL-250X	250w Switchable Xtreme Ballast. . . . .	189.95



# C.A.P. Harvest Sun® Ballasts

Harvest Sun Ballasts from Custom Automated Products are the best value priced Aluminum Cased Ballasts available. The cases are extruded aluminum to provide cool operation and have a vibration dampening system for noise reduction. All C.A.P. ballasts can be run at 120 or 240 volt. No rewiring is necessary. They come with a 120 volt power cord, 240 volt power cords are available. The 1000w, 600w, and 400w Harvest Sun ballasts will run either M.H. or H.P.S. bulbs (with the exception of the BAL- 401H that runs H.P.S. bulbs only). All Harvest Sun ballasts feature a detachable lamp and power cord for ease of use and setup. The Harvest Sun Ballast features a new Multi-Lamp Receptacle for versatility. Harvest Sun Ballasts carry a 5 year rebuild or replace warranty.



**5 Year  
Warranty!**

Item	Description	MSRP
BAL-1000H	1000w Switchable Harvest Sun Ballast. ....	\$199.95
BAL-600H	600w Switchable Harvest Sun Ballast. ....	184.95
BAL-400H	400w Switchable Harvest Sun Ballast. ....	164.95
BAL-401H	400w H.P.S. Harvest Sun Ballast . ....	154.95

## C.A.P. ValuLine® Ballasts

ValuLine Ballasts from Custom Automated Products are the best value powder coated steel cased ballasts available. Vented to provide cool operation and they have a vibration dampening system for noise reduction. All C.A.P. ballasts can be run at 120 or 240 volt. No rewiring is necessary. They come with a 120 volt power cord, 240 volt power cords are available. They will all run either M.H. or H.P.S. bulbs (with the exception of BAL-401VL which will run H.P.S. bulbs only). All ValuLine ballasts feature a detachable lamp and power cord for ease of use and setup. The ValuLine Ballast now features a new multi-lamp receptacle for versatility. ValuLine Ballasts carry a 5 year rebuild or replace warranty.



**New Multi-Lamp  
Receptacle for  
Versatility!**



**Just flip  
a switch  
to change  
between H.P.S.  
and M.H. bulbs**

**Easily  
switched  
between 120  
or 240 volt  
operation, no  
rewiring  
necessary**

**Aluminum  
magnetic  
core**

**Ignitor for  
quick starts**

**Separate  
capacitor  
compartment  
for cooler  
temperatures  
and longer life**

**High  
temperature  
American made  
capacitor for  
long life**



**5 Year  
Warranty!**

Item	Description	MSRP
BAL-1000VL	1000w Switchable ValuLine Ballast	\$179.95
BAL-600VL	600w Switchable ValuLine Ballast	164.95
BAL-400VL	400w Switchable ValuLine Ballast	144.95
BAL-401VL	400w H.P.S. ValuLine Ballast	134.95
BAL-250VL	250w Switchable ValuLine Ballast	129.95





# XtremeLED™

## G R O W   L I G H T

Latest generation most advanced LED technology delivers:

- Huge power savings
- Improved grow quality
- Simplest installation



- ▲ 130w of LED power
- ▲ 67% less power and heat than equivalent 400w H.P.S./M.H. system
- ▲ Latest technology powerful 5 watt LED emitters deliver high penetrating light power for improved grow quality
- ▲ Unique OptiGrow™ spectrum covers 660nm deep red and 455nm deep blue color bands to accelerate photosynthesis
- ▲ Fully integrated ballast and cooling fan make installation a breeze
- ▲ Clever chainable design allows up to 10 XtremeLED units to use a single outlet



**Coverage Area**  
up to 3' x 3'

**LED Lifetime**  
Over 50,000  
Hours

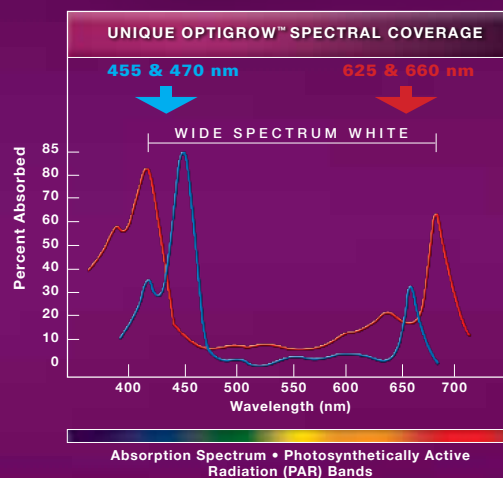
**120v, 1.2A**  
9" x 9" x 4"  
7 lbs

Item	Description	MSRP
XLED-130	XtremeLED Grow Light	\$499.95
XLED-CRD	Piggyback cord for XtremeLED Grow Light	9.95

### HUGE POWER SAVINGS



### EASY TO HANG!







# BIGGER & BETTER

Introducing The New XXXtreme 6" & 8" Reflectors from C.A.P.



Sealed For Maximum Air Movement And More Efficient Cooling

C.A.P. Reflectors Feature:

**ALUMABRITE**  
REFLECTIVE INSERTS



# IT'S TIGHT!



XXXtreme reflectors have a new low profile design and boasts the tightest seal in the industry. This provides optimal cooling efficiency and quality that is unsurpassed all in two new sizes, 6" and 8" with air-cool fittings. It is equipped with an imported AlumaBrite™ reflective aluminum insert, regarded by gardening professionals as the industry standard for quality. This attention to detail and quality ensures maximum uniformity of light output while simultaneously minimizing hot spots. The specially designed aerodynamic socket alleviates wind drag and maintains steady airflow. Wire Hangers included.

XXXTREME 6" MEASURES 38.25" x 29" x 12", XXXTREME 8" MEASURES 43" x 31.5" x 17"

Item	Description	MSRP
REF-008	XXXtreme 6"	\$219.95
REF-009	XXXtreme 8"	239.95





## C.A.P. Xtreme Reflectors



# AIRTIGHT



C.A.P. Air-Cooled Hinged Reflectors Boast the Tightest Seal in the Industry!



### ALUMABRITE

REFLECTIVE INSERTS



#### LumenAire 6

The internal reflective surface is made from AlumaBrite™, a highly reflective imported aluminum. It comes complete with the socket assembly, 15' lamp cord, and 6" flange built in. Tempered hinged glass and wire hangers are included. It will accommodate all bulb sizes and measures 25" x 17" x 8".

#### LumenAire 8

The large size of the fittings make this the perfect reflector for those requiring maximum air cooling. It also has tempered hinged glass for easy cleaning. The internal reflective surfaces are made from AlumaBrite™, a highly reflective imported aluminum. It comes complete with the socket assembly, 15' lamp cord, and 8" flange built in. Wire hangers are included. It will accommodate all bulb sizes and measures 25" x 22" x 10".

Item	Description	MSRP
REF-004	LumenAire 6" Reflector . . . . .	\$109.95

Item	Description	MSRP
REF-005	LumenAire 8" Reflector. . . . .	\$119.95

## LumeCool

The internal reflective surface is made from AlumaBrite™, a highly reflective imported aluminum. It also has tempered hinged glass for easy cleaning. The socket assembly and 15' lamp cord are built into the reflector. Wire hangers included. It will accommodate all bulb sizes except BT-56. It measures 25" x 12" x 8". Sealed for maximum air movement and more efficient cooling.



Item	Description	MSRP
REF-003	LumeCool Reflector. . . . .	\$109.95

## LumeSun

The LumeSun is a small, yet extremely efficient reflector. It is computer designed to put out a very uniform square light pattern. The internal reflective surface is made from AlumaBrite™, a highly reflective imported aluminum. The socket assembly and 15' lamp cord are built into the reflector. It comes complete with tempered glass, 4" removable air-cool fittings and wire hangers. It will accommodate all bulb sizes except BT-56. It measures 23" x 11" x 7" and comes with a Lifetime Warranty.



*Fittings Included!*



Item	Description	MSRP
REF-002	LumeSun Reflector. . . . .	\$99.95



# ALUMABRITE

**AlumaBrite™ is a reflective aluminum insert, regarded by gardening professionals as the industry standard for quality.**





## C.A.P. ValuLine® Reflectors



### VertiLume

The VertiLume 42" Parabolic Reflector provides a wide and even light spread. Lightweight and ready to hang, this reflector is ideal for close positioning to plants allowing for maximum light levels without causing any damage. **8 SIDED REFLECTOR INCLUDES PRE-WIRED SOCKET AND 15' CORD.** Bulb sold separately. 5 year no hassle warranty.



Item	Description	MSRP
REF-007	42" Reflector. ....	\$67.95

*5 Year  
Warranty!*



### LumeWing

The LumeWing Reflector is a value priced Gull-Wing reflector. This reflector is great for the new grower, or anyone that does not anticipate the need for air-cooling in the future. The reflective surface is made from AlumaBrite, a highly reflective imported aluminum. The socket assembly and 15' C.A.P. lamp cord is built into the reflector. It comes complete with wire hangers. It will accommodate all bulb sizes except BT-56. It measures 19" x 13" x 6". It is very light and easy to hang. Comes with a 5 year no hassle warranty.



Item	Description	MSRP
REF-001	LumeWing Reflector. ....	\$39.95

*5 Year  
Warranty!*

### Compact Fluorescent Wing

The ValuLine Compact Fluorescent Wing is an inexpensive fixture that is great for mounting compact fluorescent bulbs. This fixture comes complete with reflector, socket, 15' 120 volt power cord and hanging hardware. Bulbs sold separately. Comes with a 5 year no hassle warranty.

Item	Description	MSRP
REF-006	Fluorescent Reflector . . . . .	\$39.95



# The Mini Sun Light™ 150 Watt H.P.S. Complete System



The Mini Sun Light™ is a 150w High Pressure Sodium Complete System. Its vented ballast housing allows heat dissipation and a powder coated finish provides moisture resistance. It features a highly reflective imported AlumaBrite™ insert. Includes a back-lit on/off switch. The Mini Sun Light™ is also equipped with an 8' grounded 120v Power Cord and E-26 medium base socket. It includes a C.A.P. 150w bulb. Replacement bulbs available below. Measures 15¼" x 7½" x 4¼".

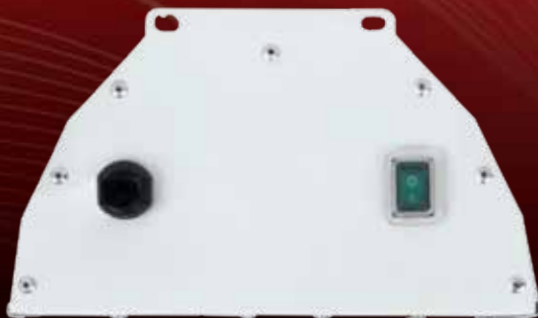
**ALUMABRITE**  
REFLECTIVE INSERTS

**H.P.S. Bulb Included!**



Item	Description	MSRP
SLHPS150	The Mini Sun Light™ System .....	\$79.95

**Includes Back-Lit  
On/Off Switch**



Item	Description	MSRP
BLB-026	Replacement 150w H.P.S. Bulb. ....	\$17.95



## C.A.P. MaxLume T5 Fixtures

The MaxLume T5 Fluorescent Light Fixtures are energy efficient electronic ballasts ideal for wide light disbursement resulting in a bright and even growing area. Multiple side vents allow for cooler operation and wire cables allow vertical or horizontal hanging positions. Fixtures are made with a reflective white powder coated finish to resist moisture. All MaxLume T5 fixtures include on/off switches and can chain easily together running on a single 12' power cord (see chart below). Operates on 120v only. Fixtures are pre-loaded with your choice of blue, red or mixed bulbs. (2' Fixtures available with grow bulbs only). 5 year "no hassle" warranty.



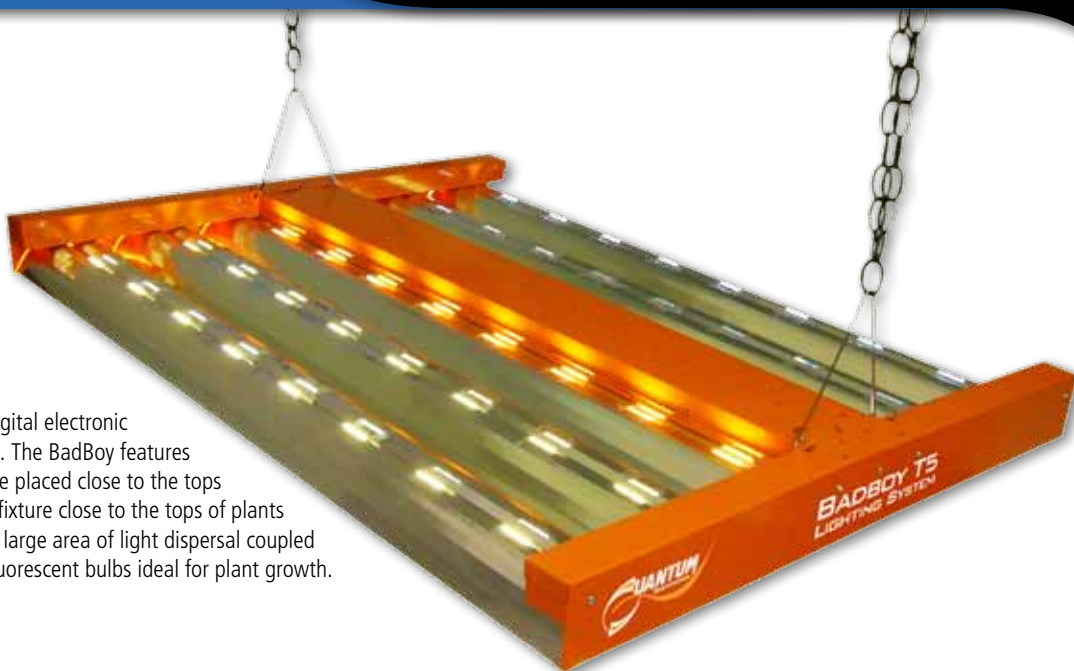
Description	Chainable
2', 2 Bulb	12
2', 4 Bulb	6
2', 6 Bulb	5
2', 8 Bulb	5
4', 2 Bulb	6
4', 4 Bulb	5
4', 6 Bulb	4
4', 8 Bulb	3

**INCLUDES YOUR CHOICE OF  
BULBS PRE-INSTALLED!**

# ALUMABRITE

Item	Description	MSRP
FL22	2', 2 Bulb Fixture w/ <b>Grow</b> Bulbs 25"x 5" x 11" .....	\$84.95
FL24	2', 4 Bulb Fixture w/ <b>Grow</b> Bulbs 25"x 5" x 16" .....	114.95
FL26	2', 6 Bulb Fixture w/ <b>Grow</b> Bulbs 25"x 5" x 21" .....	159.95
FL28	2', 8 Bulb Fixture w/ <b>Grow</b> Bulbs 25"x 5" x 28" .....	204.95
FL42B	4', 2 Bulb Fixture w/ <b>Bloom</b> Bulbs 49"x 5" x 8" .....	119.95
FL42G	4', 2 Bulb Fixture w/ <b>Grow</b> Bulbs 49"x 5" x 8" .....	119.95
FL42M	4', 2 Bulb Fixture w/ <b>Mixed</b> Bulbs 49"x 5" x 8" .....	119.95
FL44B	4', 4 Bulb Fixture w/ <b>Bloom</b> Bulbs 49"x 5" x 16" .....	154.95
FL44G	4', 4 Bulb Fixture w/ <b>Grow</b> Bulbs 49"x 5" x 16" .....	154.95
FL44M	4', 4 Bulb Fixture w/ <b>Mixed</b> Bulbs 49"x 5" x 16" .....	154.95
FL46B	4', 6 Bulb Fixture w/ <b>Bloom</b> Bulbs 49"x 5" x 21" .....	209.95
FL46G	4', 6 Bulb Fixture w/ <b>Grow</b> Bulbs 49"x 5" x 21" .....	209.95
FL46M	4', 6 Bulb Fixture w/ <b>Mixed</b> Bulbs 49"x 5" x 21" .....	209.95
FL48B	4', 8 Bulb Fixture w/ <b>Bloom</b> Bulbs 49"x 5" x 28" .....	259.95
FL48G	4', 8 Bulb Fixture w/ <b>Grow</b> Bulbs 49"x 5" x 28" .....	259.95
FL48M	4', 8 Bulb Fixture w/ <b>Mixed</b> Bulbs 49"x 5" x 28" .....	259.95
FL24NB	2', 4 Bulb Fixture - No Bulbs. ....	94.95
FL26NB	2', 6 Bulb Fixture - No Bulbs. ....	144.95
FL28NB	2', 8 Bulb Fixture - No Bulbs. ....	174.95
FL44NB	4', 4 Bulb Fixture - No Bulbs. ....	139.95
FL46NB	4', 6 Bulb Fixture - No Bulbs. ....	199.95
FL48NB	4', 8 Bulb Fixture - No Bulbs. ....	229.95

MaxLume T5 Replacement Bulbs available on pg. 28



## Quantum Badboy T5

Quantum T5 fluorescent fixtures use high efficiency, digital electronic ballasts to power the high output T5 fluorescent bulbs. The BadBoy features a low profile and very low heat output allowing it to be placed close to the tops of plants. Placing the BadBoy high output fluorescent fixture close to the tops of plants provides a very intense, bright light over the area. The large area of light dispersal coupled with the intense light is what makes T5 high output fluorescent bulbs ideal for plant growth. 3 year warranty.



Item	Description	MSRP
QT5-004	Quantum T5 4', 4 Bulb 260w	\$159.95
QT5-006	Quantum T5 4', 6 Bulb 390w	224.95
QT5-008	Quantum T5 4', 8 Bulb 515w	269.95
QT5-012	Quantum T5 4', 12 Bulb 760w	399.95

Item	Description	MSRP
BLB-021	T5, 4' 6500K Bulb (Box of 8)	\$79.95
BLB-023	T5, 4' 2900K Bulb (Box of 8)	79.95



**UNIT FOLDS FOR EASY  
STORAGE  
AND TRANSPORTATION IN  
3 SIMPLE STEPS!**



# digilux®

HIGH OUTPUT DIGITAL BULBS

For growers who want the best equipment available, Digilux Digital Bulbs and NextGen Digital Ballasts are the best combination available. Digilux bulbs for their higher lumen output with wider spectral ranges and NextGen for its proven reliability, 5 year warranty, and innovative design.

DESIGNED FOR USE WITH:

NE X T GEN™  
DIGITAL BALLASTS



## THE PERFECT MATCH

# XTREME LUMEN OUTPUT!

Look for the Digilux  
Hologram of  
Authenticity on top of  
every box!



## digilux

### Includes The Exclusive 600w M.H. Bulb!



Features a full color master carton with  
elegant individual box design complete with  
contoured bulb tray for protection.

Digilux Metal Halide and High Pressure Sodium bulbs are favored by growers because of the wide color spectrum and efficiency. They are engineered for use in digital ballasts and feature enhanced red and orange spectrums (HPS) blue spectrums (MH), better color uniformity, longer bulb life, and less lumen depreciation.

Digilux bulbs are hot start approved and can be used in both vertical and horizontal fixtures. Digilux bulbs offer superior performance compared to traditional Metal Halide and H.P.S. bulbs. Digilux Metal Halide bulbs deliver 25% more energy in the red and orange spectrums as well as 25% more energy in the blue, violet, and green spectrums. 1 year warranty.

Item	Description	MSRP
<b>DX1000MH</b>	1000w M.H. Digital Bulb (120,000 Lumens) .....	<b>\$119.95</b>
<b>DX600MH</b>	600w M.H. Digital Bulb (75,000 Lumens) .....	<b>119.95</b>
<b>DX400MH</b>	400w M.H. Digital Bulb (45,000 Lumens) .....	<b>89.95</b>
<b>DX1000HPS</b>	1000w H.P.S. Digital Bulb (155,000 Lumens) .....	<b>119.95</b>
<b>DX600HPS</b>	600w H.P.S. Digital Bulb (95,000 Lumens) .....	<b>119.95</b>
<b>DX400HPS</b>	400w H.P.S. Digital Bulb (57,000 Lumens) .....	<b>89.95</b>





## MaxLume H.I.D. Bulbs

Boasting high lumen output and superior color spectrum, these bulbs will drive your garden to it's maximum potential. More plant-available blues from the M.H. series to give your garden what it needs for early vigor and healthy branching. With more oranges and reds available from the H.P.S. lamps for your flowering plants to promote both quality and quantity in floral clusters. For discerning production growers, the extra low lumen depreciation means more crops from each and every MaxLume bulb, maximizing costs and minimizing maintenance.

# MAXLUME™



Item	Description	MSRP
ML250MH	250w M.H. (28,500 Lumens)	\$29.95
ML400MH	400w M.H. (39,000 Lumens)	37.95
ML600MH	600w M.H. (92,000 Lumens)	59.95
ML1000MH	1000w M.H. (110,000 Lumens)	74.95
ML250HPS	250w H.P.S. (28,000 Lumens)	19.95
ML400HPS	400w H.P.S. (50,000 Lumens)	18.95
ML600HPS	600w H.P.S. (90,000 Lumens)	49.95
ML1000HPS	1000w H.P.S. (140,00 Lumens)	52.95



## MaxLume Compact Fluorescent Bulbs

Our compact fluorescent bulbs are available in 2 wattages, 125w and 200w. The 125w bulb puts out 7,500 lumens and the 200w bulb puts out 17,600 lumens. They produce very little heat. They are available with either cool or warm grow spectrums. They fit mogul sockets and are compatible with most Compact Fluorescent Fixtures or the LumeWing Fluorescent Fixture. 1 year warranty.

Item	Description	MSRP
BLB-016	125w (Cool)	\$47.95
BLB-017	125w (Warm)	47.95
BLB-018	200w (Cool)	82.95
BLB-019	200w (Warm)	82.95



# MAXLUME™

COMPACT FLUORESCENT



## MaxLume T5 HO Fluorescent Bulbs

The MaxLume High Output (HO) T5 bulbs take into consideration the proper kelvin temperature when it comes to growing plants, NOT the human eye. Research has proven that the 5400k temperature improves vegetative growth than the standard 6500k lamps that you see in the market today. Our incomparable 2800k temperature are where the grower will see a noticeable difference in the bloom stage apart from the standard industry's T5's. Low case QTY's of 25 and unique packaging makes the MaxLume's T5's your #1 choice. 1 year warranty.

# MAXLUME™

HIGH OUTPUT T5 FLUORESCENT BULBS



Item	Description	MSRP
MLT5-001	MaxLume 4' T5 HO Cool	\$12.95
MLT5-002	MaxLume 4' T5 HO Warm	12.95
MLT5-003	MaxLume 2' T5 HO Cool	7.95
MLT5-004	MaxLume 2' T5 HO Warm	7.95

## Sylvania H.P.S. Bulbs

Sylvania Ecologic High Pressure Sodium light bulbs have little or no lead in their glass or bases, and are produced with little or no mercury. Many of these eco friendly products also offer additional features such as energy efficiency and long life, and are packaged using recycled and/or recyclable materials. Sylvania High Pressure Sodium bulbs that are designated as ECOLOGIC pass the U.S. EPA's test for hazardous waste determination.



Item	Description	MSRP
BLB-046	1000w H.P.S. Eco . . . . .	\$67.95
BLB-045	750w H.P.S. . . . . .	89.95
BLB-044	400w H.P.S. Eco . . . . .	24.95
BLB-043	250w H.P.S. Eco . . . . .	24.95
BLB-042	150w H.P.S. Eco . . . . .	24.95
BLB-041	150w H.P.S. Medium Base . . . . .	24.95

## Sylvania Plantastar H.P.S. Bulb

The Osram Plantastar has been developed to meet the requirements of todays greenhouses. Illuminating vegetation cannot be compared to the lighting of roads, which is what standard H.P.S. bulbs were designed for. Plantastar bulbs emit a balanced spectrum that is 30% higher in blue output than standard H.P.S. bulbs.



Item	Description	MSRP
BLB-048	1000w H.P.S. Bulb. . . . .	\$97.95

## Eiko Bulbs

Eiko bulbs have been proven over many years of use. They come with a full 1 year warranty. They emit the same light as standard Phillips & G.E. bulbs (they are actually manufactured using name brand arc tubes). Great retail packaging with individual bar codes. They are available in H.P.S., M.H. and T5.

Item	Description	MSRP
BLB-001	1000w H.P.S. Mogul Base . . . . .	\$69.95
BLB-002	600w H.P.S. Mogul Base . . . . .	69.95
BLB-003	400w H.P.S. Mogul Base . . . . .	24.95
BLB-004	250w H.P.S. Mogul Base . . . . .	29.95
BLB-005	150w H.P.S. Medium Base . . . . .	27.95
BLB-006	100w H.P.S. Medium Base . . . . .	27.95
BLB-007	1000w M.H. BT-37 Mogul Base . . . . .	67.95
BLB-008	400w M.H. BT-37 Mogul Base . . . . .	34.95
BLB-009	250w M.H. Mogul Base . . . . .	34.95
BLB-010	175w M.H. Medium Base . . . . .	34.95
BLB-011	100w M.H. Medium Base . . . . .	29.95

## Sylvania M.H. Bulbs

Sylvania MetalArc metal halide lamps allow for design flexibility with multiple light source solutions to choose from. MetalArc lamps have significantly higher efficacy than mercury vapor or incandescent products.



Item	Description	MSRP
BLB-040	1000w M.H. Univ. Super Metal Arc . . . . .	\$64.95
BLB-039	1000w M.H. Horizontal . . . . .	59.95
BLB-038	400w M.H. Univ. Super Metal Arc . . . . .	28.95
BLB-037	400w M.H. Horizontal . . . . .	44.95
BLB-036	250w M.H. Univ. Super Metal Arc . . . . .	24.95
BLB-035	250w M.H. Horizontal . . . . .	39.95
BLB-034	175w M.H. Univ. Super Metal Arc . . . . .	37.95

## Sylvania T5 HO Bulbs

The MaxLite T5 fluorescent lamps offer a construction above the competition. They utilize Ultra Fine Rare Earth Phosphors - an extremely fine mix producing an even coating on the glass. This generates high lumen maintenance and also helps minimize black banding on the lamp.



Item	Description	MSRP
BLB-027	4' T5 HO Warm - 3000K . . . . .	\$14.95
BLB-028	4' T5 HO Cool - 6500K . . . . .	14.95
BLB-030	2' T5 HO Warm - 3000K . . . . .	13.95



Item	Description	MSRP
BLB-012	4' T5 HO Cool Bulb - 6500K . . . . .	\$11.95
BLB-013	4' T5 HO Warm Bulb - 3000K . . . . .	11.95
BLB-024	2' T5 HO Warm Bulb - 3000K . . . . .	5.95
BLB-025	2' T5 HO Cool Bulb - 6500K . . . . .	5.95

# Lighting Accessories

## Light Rail

The Light Rail 3.5 has the ability to move 1 light 6', or up to 12' with the optional extension rail. An adjustable delay (1-60 seconds) at each end evens out the light coverage. Two models are available, 6 RPM and 10 RPM. The 6 RPM takes about 4 minutes to travel across the rail and the 10 RPM takes about 2 minutes. All Light Rails include a single point mounting hook for your light, a 6 foot rail, and adjustable end stops.

The Light Rail 5.0 Commercial Drive is designed for large scale gardens. The Light Rail 5 motor kit comes with a 4 RPM commercial drive motor, 8' of rail, adjustable crossbar, and mounting hardware. System expands using kits to suit your needs.



Item	Description	MSRP
<b>RAIL35</b>	Light Rail 3.5 Complete Kit, 6 R.P.M. ....	<b>\$234.95</b>
<b>RAIL351</b>	Light Rail 3.5 Complete, 10 R.P.M. Motor. ....	<b>234.95</b>
<b>RAIL35SK</b>	Light Rail 3.5 Replacement Switch Stop, w/Slide Nut & Thumb Screw (6 pack). ....	<b>4.49</b>
<b>RAIL35T</b>	Aux Trolley. ....	<b>22.95</b>
<b>RAIL35TK</b>	Light Rail 3.5 Trolley Wheel Replace. Kit ....	<b>5.95</b>
<b>RAIL35WK</b>	Light Rail 3.5 Drive Wheel Replacement Kit. ....	<b>4.95</b>
<b>RAIL3EXT</b>	Light Rail 3' Extension ....	<b>14.95</b>
<b>RAIL6EXT</b>	Light Rail 6' Extension ....	<b>28.95</b>
<b>RAILAAL</b>	Add a Lamp Kit (No Rail or Pushrod) ....	<b>23.95</b>
<b>RAILAALC</b>	Add a Lamp Kit with Rail & Pushrod. ....	<b>59.95</b>
<b>RAILPUSH</b>	Light Rail 6' Rail and Pushrod ....	<b>36.95</b>
<b>RAILROBO</b>	Robo-Stik Stabilizing Bar ....	<b>29.95</b>
<b>RAILM35</b>	Light Rail 3.5, 6 R.P.M. Motor Only. ....	<b>208.95</b>
<b>RAILM351</b>	Light Rail 3.5, 10 R.P.M. Motor Only. ....	<b>208.95</b>
<b>Light Rail 5.0</b>		
<b>RAIL5</b>	Light Rail 5, 4 R.P.M., Crossbar, 8' Rail ....	<b>464.95</b>
<b>RAIL5AAB</b>	Light Rail 5, Add a Bar Kit, W/LR5 Aux Trolley, Rod, Crossbar, and Hardware ....	<b>149.95</b>
<b>RAIL5CBMK</b>	Light Rail 5, Crossbar Mounting Kit. ....	<b>4.95</b>
<b>RAIL5EXT</b>	Light Rail 5, 4' Auxiliary Rail ....	<b>62.95</b>
<b>RAILM5</b>	Light Rail 5, 4 R.P.M. Motor Only <b>SPO</b> . ....	<b>324.95</b>

## Solar Revolution

The Solar Revolution's unique design allows the gardener to add capacity as needed and the standard two arm unit will rotate as many as three lights. The simple addition of two additional arms enables the unit to rotate up to five lights without having to buy a whole new light mover, cut lamp cords or do any hard wiring. The innovative design rotates the lamps(s) 90°, 180° or 355° in one direction, then reverses course to provide even spectral uniformity. "Slip-Clutch Technology" protects the drive-train from external forces that cause damage; making it almost indestructible. Made in the USA.

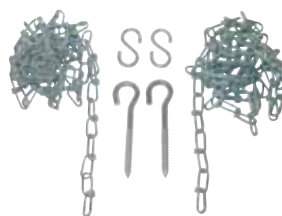
Item	Description	MSRP
<b>WCGSRV</b>	Solar Revolution Light Mover 4 arm Unit 355° (2 arms included) ....	<b>\$527.95</b>
<b>WCGSRV3</b>	Solar Revolution Light Mover 3 arm Unit 355° (3 arms included) ....	<b>548.95</b>
<b>WCGA2</b>	Solar Revolution Light Mover 2 Arm Kit. ....	<b>37.95</b>
<b>WCGSSK</b>	Solar Revolution Swivel Stick Kit w/ Mounting Hardware ....	<b>24.95</b>



## C.A.P. Light Hanging Kit

Light Hanging Kit includes 2 "J" hooks, 2 5' lengths of chain, and 2 "S" hooks. Fully adjustable.

Item	Description	MSRP
<b>LHK-001</b>	Light Hanging Kit. ....	<b>\$7.95</b>



## C.A.P. Light Lifters

This unique reflector suspension system allows you to adjust the height of a reflector in one simple movement. The tension mechanism will keep the reflector in place once it is set at the desired height. The support strings pull out and retract like a yo-yo. Will work on light movers also! A simple way to raise a hood as plants grow! A pair will support reflectors up to 22 lbs.



## Rope Ratchets

With Rope Ratchets you simply attach the two hooks and pull the loose end of the rope for a secure, tight hold. Rope Ratchets stay tight, locking in place as you pull the free end. To loosen you just pull the rope to reduce tension and push the handy thumb release. Works great for lighting and many other garden uses!



Item	Description	MSRP
<b>LLIF-001</b>	Pair of Light Lifters. ....	<b>\$13.95</b>

Item	Description	MSRP
<b>RRAT-001</b>	Pair of 1/8" Ratchets w/8' Rope. ....	<b>\$17.95</b>
<b>RRAT-002</b>	Pair of 1/4" Ratchets w/15' Rope. ....	<b>34.95</b>





## C.A.P. 1000w NextGen Digital Ballast 240 Volt Cord

Made for the 1000w NextGen ballasts only, the 240 volt power cords have a standard 240 volt NEMA 6-15 plug.



## C.A.P. 1000w NextGen Digital Ballast 120 Volt Cord

Made for the 1000w NextGen ballasts only, the 120 volt power cords have a standard 120 volt plug.



Item	Description	MSRP
CRD-240NG	8' Ballast Cord 240v, 14 gauge	\$10.95

Item	Description	MSRP
CRD-120NG	8' Ballast Cord 120v, 14 gauge	\$12.49

## C.A.P. 240 Volt Ballast Cord

Standard 240 volt ballast power cords are available in different lengths and have a standard 240 volt NEMA 6-15 plug.



Item	Description	MSRP
CRD-240	8' Ballast Cord 240v, 16 gauge	\$7.95
CRD-240L	15' Ballast Cord 240v, 14 gauge	12.95

## C.A.P. Lamp Cords

Lamp cords are available in different lengths. They can be wired into the socket or reflector of your choice. **Please note that 65' lamp cords can only be used with the NextGen Digital Ballasts.**



Item	Description	MSRP
LIG-001	15' 16 Gauge Lamp Cord	\$14.95
LIG-002	25' 14 Gauge Lamp Cord	22.95
LIG-018	65' 14 Gauge Lamp Cord (NextGen Only)	62.95

## C.A.P. 120 Volt Ballast Cord

Standard 120 volt ballast power cords with a standard 120 volt plug.



Item	Description	MSRP
CRD-120	8' Ballast Cord 120v, 14 gauge	\$6.95

## C.A.P. Lamp Cord Extensions

Our extension lamp cords enable the user to increase the distance from their ballast to their reflector. They are available in 10' and 50' lengths. **Please note that 50' lamp cord extensions can only be used with the NextGen Digital Ballasts.**



Item	Description	MSRP
LIG-016	10' 14 Gauge Extension	\$13.95
LIG-017	50' 14 Gauge Extension (NextGen Only)	49.95

# Lighting Accessories

## C.A.P. Mogul Socket w/Lamp Cord

The C.A.P. Mogul Socket with lamp cord fits all C.A.P. and many other manufacturers lamp cord receptacles. **Please note that the 65' cord will only work with NextGen Digital Ballasts.**



Item	Description	MSRP
LIG-021	w/ 15' Lamp Cord 16 ga. ....	\$19.95
LIG-022	w/ 25' Lamp Cord 14 ga. ....	32.95
LIG-023	w/ 65' Lamp Cord 14 ga. (NextGen Only) ....	44.95

## C.A.P. Mogul Socket w/Power Cord

The C.A.P. Mogul Socket with 120 volt power cord is perfect for hanging your compact fluorescent bulb.



Item	Description	MSRP
LIG-027	w/ 8' 120 volt 16 ga. ....	\$11.95
LIG-028	w/ 20' 120 volt 16 ga. ....	19.95

## C.A.P. Mogul Socket Assembly w/Lamp Cord

The C.A.P. Mogul Socket Assembly with lamp cord fits all C.A.P. and many other manufacturers lamp cord receptacles. **Please note that the 65' cord will only work with NextGen Digital Ballasts.**



Item	Description	MSRP
LIG-024	w/ 15' Lamp Cord 16 ga. ....	\$27.95
LIG-025	w/ 25' Lamp Cord 14 ga. ....	39.95
LIG-026	w/ 65' Lamp Cord 14 ga. (NextGen Only) ....	49.95

## C.A.P. Mogul Socket Assembly w/Power Cord

The C.A.P. Mogul Socket Assembly with 120 volt power cord comes with a wire hanger and is perfect for hanging your compact fluorescent bulb.



Item	Description	MSRP
LIG-029	w/ 8' 120 volt 16 ga. ....	\$22.95
LIG-030	w/ 20' 120 volt 16 ga. ....	32.95

## C.A.P. Mogul Socket Assembly - No Cord

The C.A.P. 5kv Mogul Socket Assembly is perfect for CF or HID bulbs.



Item	Description	MSRP
LIG-031	Socket Assembly w/Pigtail Strain Relief ....	\$14.95



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WWW.CAPCONTROLLERS.COM

## C.A.P. Mogul Socket

The C.A.P. 5kv Mogul Socket will fit any Mogul base bulb. Comes with 2 lead wires.



Item	Description	MSRP
LIG-005	5kv Mogul Socket . . . . .	\$7.95

## C.A.P. Lamp Cord Receptacles

Our lamp cord receptacles are available to mate with the popular C.A.P. lamp cord plug. They will also fit many other manufacturers lamp cords. They have 14 gauge wire leads, 1/2" strip and are available in either 12" or 24".



Item	Description	MSRP
LIG-003	Receptacle w/12" lead, 14 gauge . . . . .	\$4.95
LIG-004	Receptacle w/24" lead, 14 gauge . . . . .	5.95

## C.A.P. 240 Volt Power Cord

Our standard 240 volt power cords are ready to use for any project. They are 14 gauge, 6', 15 amp, 3 wire cords with a standard 240 volt NEMA 6-15 plug.



Item	Description	MSRP
CRD-021	240 Volt Power Cord, 14 gauge. . . . .	\$7.95

## C.A.P. 120 Volt Power Cord

Our standard 120 volt power cords are ready to use for any project. They are 14 gauge, 6', 15 amp, 3 wire cords with a standard 120 volt plug.



Item	Description	MSRP
CRD-020	120 Volt Power Cord, 14 gauge. . . . .	\$5.95

## Ballast Kits

All Kits include a High Temp Capacitor, Ignitor, & Starter.  
All Capacitors are American made.

Item	Description	MSRP
BAL-401KIT	400w H.P.S. Ballast Kit. . . . .	\$89.95
BAL-402KIT	400w M.H. Ballast Kit. . . . .	64.95
BAL-600KIT	600w H.P.S. Ballast Kit. . . . .	114.95
BAL-1001KIT	1000w H.P.S. Ballast Kit. . . . .	119.95
BAL-1002KIT	1000w M.H. Ballast Kit. . . . .	109.95



## Ignitors & Capacitors

All Capacitors are American made.

Ignitors	MSRP
LIG-006 1000w H.P.S. . . . .	\$24.95
LIG-007 600w H.P.S. . . . .	24.95
LIG-008 400w H.P.S. . . . .	24.95
LIG-009 250w H.P.S. . . . .	24.95

Capacitors	MSRP
LIG-010 1000w H.P.S., 26 MFD, 525 vac. . . . .	\$34.95
LIG-011 600w H.P.S., 64 MFD, 300 vac. . . . .	37.95
LIG-012 400w H.P.S., 26 MFD, 400 vac. . . . .	31.95
LIG-014 250w H.P.S., 20 MFD, 330 vac. . . . .	29.95
LIG-013 400w M.H., 28 MFD, 300 vac . . . . .	32.95
LIG-015 250w M.H., 15 MFD, 400 vac. . . . .	29.95





# Lighting Accessories

## 3 Outlet Power Adapter

Need to split an outlet into 3? This inexpensive Power Adapter will convert one outlet into 3 grounded outlets. Made of solid molded plastic, it will last for years! Will handle up to 15 amps.



Item	Description	MSRP
CRD-006	3 Outlet Power Adapter . . . . .	\$4.95

## 8' Power Strip

This 8' Power Strip will convert a standard wall outlet into six grounded outlets. It features a built-in circuit breaker to protect your electrical equipment. Will handle up to 15 amps.



Item	Description	MSRP
CRD-014	8' Power Strip . . . . .	\$11.95

## 9' – Three Outlet Extension Cord

The 3 Outlet Extension Cord features a solid molded power block to give you the convenience of 3 outlets in a compact design. It will handle up to 13 amps.



Item	Description	MSRP
CRD-007	9' Extension Cord, 16/3 . . . . .	\$9.49

## 6 Outlet Power Tap

This Power Tap plugs into a standard wall outlet, giving you 6 outlets. Has a screw that attaches it firmly to the existing outlet, so there is no chance of it falling out. Great for indoor gardening where outlets are at a premium. Will handle up to 15 amps.



Item	Description	MSRP
CRD-015	6 Outlet Power Tap . . . . .	\$4.19

## Medium Duty Extension Cords

The Medium Duty Extension Cords are a very good quality, great all-purpose extension cord. The cords are rated for up to 15 amps for the 25' and 50' cords and 13 amps for the 100' cord.



Item	Description	MSRP
CRD-008	25' Medium Duty Extension Cord . . . . .	\$19.95
CRD-009	50' Medium Duty Extension Cord . . . . .	32.95
CRD-010	100' Medium Duty Extension Cord . . . . .	59.95

## Super Heavy Duty Power Block

Need to split an outlet into three? This super heavy duty 2' power block features super flexible, extra durable wire. Will stand up to heat, cold, and rough use. The plugs light up to confirm that power is available. Will handle up to 20 amps.



Item	Description	MSRP
CRD-016	3 Outlet Power Block . . . . .	\$11.95

## 3 Outlet Extension Cords

Our Power Cords feature a 3 outlet plug block, saving the cost and clutter of running two or three cords for gardening appliances. The cords are rated for up to 15 amps for the 25' and 50' cords and 13 amps for the 100' cord.



Item	Description	MSRP
CRD-011	25' 3 Outlet Extension Cord, 14/3 . . . . .	\$31.95
CRD-012	50' 3 Outlet Extension Cord, 14/3 . . . . .	44.95
CRD-013	100' 3 Outlet Extension Cord, 14/3 . . . . .	69.95

## Heavy Duty Extension Cords

The Heavy Duty Extension Cords are more flexible and abrasion resistant than standard extension cords. They feature a lighted power plug to indicate that the cord has power. Available in 25', 50' and 100'. Rated for 15 amps on the 25' and 50' cords and 13 amps for the 100' cord.



Item	Description	MSRP
CRD-017	25' Heavy Duty Extension Cord, 14/3 . . . . .	\$28.95
CRD-018	50' Heavy Duty Extension Cord, 14/3 . . . . .	42.95
CRD-019	100' Heavy Duty Extension Cord, 14/3 . . . . .	77.95

## Duplex Receptacles

Duplex receptacles are available in 120 volt 15 amp (white) or 240 volt 15 amp (brown).



Item	Description	MSRP
ZRCP-002	120V Duplex Receptacle . . . . .	\$1.95
ZRCP-003	240V Duplex Receptacle . . . . .	4.95

## Universal X-Plug 120/240 Receptacle

The C.A.P. Universal X-Plug 120/240 Receptacle allows you to run your ballasts at 120/240 volt without having to change out your ballast power cords. Can be wired for 120v or 240v.



Item	Description	MSRP
ZRCP-006	Universal X-Plug Receptacle . . . . .	\$5.95

## Electrical Tap

Our electrical tap allows you to connect a 1/0 - 4/0 wire to a 1/0 - 4/0 main line. This is used to run an electrical panel or lighting controller from an existing power line. They are fully insulated and can be used on live wires. You can put your wire on either side of the tap.

Item	Description	MSRP
TAP-001	Electrical Tap for 1/0-4/0 Wire . . . . .	\$32.95



## C.A.P. ValuLine 24 Hour Analog Timer

The ValuLine 24 hour Analog Timer from C.A.P. has a minimum of 15 minutes on and a maximum of 24 hours off. Has 2 timed receptacles. The unit is grounded and rated for 15 amps at 120 volt. Good for lighting, air conditioning or other high amperage devices.

Item	Description	MSRP
<b>TMR-009</b>	24 Hr Analog Timer 120v. ....	<b>\$14.95</b>



## C.A.P. ValuLine Weekly Digital Timer

The ValuLine Weekly Digital Timer from C.A.P. will time up to 8 on/off settings per day and is accurate to the minute. The timer has a digital clock and LCD readout. The unit has a minimum on time of 1 minute and a maximum off time of 7 days. Has 2 timed receptacles and a convenient on/off indicator light. The unit is grounded and rated for 15 amps at 120 volt. Comes with a rechargeable Ni-MH Battery.

Item	Description	MSRP
<b>TMR-010</b>	Weekly Digital Timer 120v. ....	<b>\$17.95</b>



## Intermatic Timer

The Intermatic 15 amp timer is good for many different applications. It has 6 trippers that you can place for up to 3 on/off times per day. A manual override allows you to turn it on or off without changing the current timing. It has a 30 minute resolution. Rated for up to 15 amps. Great for lighting applications.

Item	Description	MSRP
<b>TMR-004</b>	Intermatic 15 amp Grounded Timer . . . . .	<b>\$18.95</b>



## Intermatic Digital Timer

For gardeners that have exact timing requirements, we carry the Intermatic Digital Timer. It will time up to 28 on/off settings per day. Accurate to the minute. The timer has a digital clock and LCD readout. Auto adjusts to sunrise/sunset time for dusk/dawn setting. Has 2 timed receptacles and a convenient on/off indicator light. It is rated for 15 amps at 120 volt.

Item	Description	MSRP
<b>TMR-006</b>	Intermatic Digital Timer . . . . .	<b>\$29.95</b>



## Intermatic Heavy Duty Timers

The Intermatic Heavy Duty Timers are great for lighting, air conditioning or other high amperage devices. They have 4 trippers that you can place for up to 2 on/off times per day and a manual override to allow you to turn them on or off without changing the current timing. They have a 30 minute resolution. Available in 2 models, 120 volt or 240 volt. The 120 volt timer is rated at 20 amps and will control up to 2 1000 watt lights. It has an industry standard NEMA 5-20 plug configuration. The 240 volt timer is rated at 15 amps and will control up to three 1000 watt lights. It has an industry standard NEMA 6-15 plug configuration. All of our 240 volt lighting has this plug configuration.

Item	Description	MSRP
<b>TMR-007</b>	Intermatic HB113C 120v Timer. ....	<b>\$22.95</b>
<b>TMR-008</b>	Intermatic HB112C 240v Timer. ....	<b>21.95</b>



# The Most Inexpensive CO<sub>2</sub> Controller



C.A.P. does it again with the unbelievably priced PPM-4 which will control your grow room's Carbon Dioxide (CO<sub>2</sub>) levels automatically without lifting a finger! No timers, no buttons, no bulky cords. Internally preset to 1450 PPM which will turn on your existing CO<sub>2</sub> generator/tank if your CO<sub>2</sub> drifts below 1400 PPM. The PPM-4 will turn off your existing CO<sub>2</sub> generator/tank when PPM levels reach above 1500. The variance is (+/- 50 PPM) and is commonly known as the "Dead-Band" or hysteresis. Your growing environment will always be at its sweet spot with the PPM-4. Mount the LED interface to the wall and attach the slender "stereo" type cord to the 120v power module. Simply plug your CO<sub>2</sub> generator or CO<sub>2</sub> Tank Solenoid cord to the front of the 120v power module and you are ready grow! Rated for 10 amps at 120v and comes with a 3 year no hassle warranty. See page 47.

PPM-4™ CO<sub>2</sub> MONITOR







# CLIMATE CONTROLLERS



# ROCK SOLID

We don't just build controllers.  
We are the creators of stress free gardening.  
No controller company can rival our history,  
replicate our passion, or our vision.  
Innovation is our mission and perfection our goal.  
We will make perfection smarter.  
More efficient, more reliable, more sophisticated.  
And while others try to promise everything.  
We promise one thing.  
The most reliable controllers available.  
**C.A.P. Rock Solid Performance.**





# TOTAL ATMOSPHERIC CONTROL

Managing your garden with the help of atmospheric controllers allows you to control your garden with greater precision and accuracy. This translates into better yields and less demand on your time. In addition to a decrease in labor, atmospheric controllers increase the energy efficiency of your garden by only using high demand devices when they are necessary versus continuous operation. This saves you money on your energy bill as well as replacement costs.





## THE C.A.P. 5 YEAR NO HASSLE WARRANTY



All C.A.P. controllers are guaranteed for 5 years. If a C.A.P. controller becomes defective within the first 90 days of purchase, we will replace it with a brand new product free of charge. For any controller that is older than 90 days, we will repair or replace the defective product with a new or refurbished product at our discretion. In all cases, the replacement you receive will be equal to or better than the item that was returned to us.

**5 Year  
Warranty!**

**ASK FOR THE BEST.... ASK FOR C.A.P.!**



### HLC-1e

#### High Temp Shutdown

The HLC-1e is used as a high temperature shutdown by plugging your lights into the outlet and setting the maximum temperature that your growing environment can sustain. If this setting is exceeded, your lights will turn off. This is cheap insurance for your garden. Comes with a 12' remote temperature sensor. The HLC-1e is rated at 15 amps @ 120 volt. 5 year no hassle warranty.



### HLC-2e — 15 Minute On-Delay

The HLC-2e is designed to protect your expensive HID lights from "Hot Starts". A hot start occurs whenever your lights are turned off and then back on before the lamp is allowed to cool off. Hot starts caused by power outages reduce your lamp's life and intensity. When the HLC-2e is connected to your lights, it will sense a power interruption and start a 15 minute time delay to keep the lights from trying to re-fire during the cool down period. The HLC-2e can also be used to delay other devices from starting for 15 minutes when power is applied. The HLC-2e is rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
HLC-1e	C.A.P. High Temp Shutdown .....	\$84.95

Item	Description	MSRP
HLC-2e	C.A.P. 15 Minute On-Delay .....	\$79.95

### HLC-3e

#### High Temp Shutdown & 15 Minute On Delay

The HLC-3e HID lighting controller combines the functions of the HLC-1e and HLC-2e to protect your expensive HID lights from hot starts and your garden from high temperatures. A high temperature shutdown provides insurance from crop damage due to high heat from ventilation and cooling problems. When connected to your lights, it will monitor your growing area's temperature and disable your lights if the maximum temperature you specify is exceeded. The HLC-3e will also sense a power interruption and start a 15 minute time delay to keep your lights from trying to re-fire during the cool down period. Comes with a 12' remote temperature sensor. The HLC-3e is rated at 15 amps @ 120 volt. 5 year no hassle warranty.



### ART-DNe

#### Adjustable Recycle Timer Day/Night

The ART-DNe recycling timer controls any application requiring a device to be turned on and off at precise intervals. The ART-DNe has a user adjustable on time of 1 second to 40 minutes and an off time of 1 minute to 8 hours. A day/night/both switch allows you to select the time period that the ART-DNe will operate. The ART-DNe timers have a wide range of uses including controlling hydroponic pumps, simple CO<sub>2</sub> controllers, turning on and off ozone generators, running exhaust fans, etc. ART-DNe timers are rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
HLC-3e	C.A.P. High Temp Shutdown & On-Delay .....	\$104.95

Item	Description	MSRP
ART-DNe	C.A.P. Adjustable Recycle Timer .....	\$84.95

# Timers & Temperature Control

## NFT — Preset Cycle Timers

The NFT series of preset recycling timers from C.A.P. are the simplest devices available for turning a device on and off at precise intervals. The NFT-1e Timer is pre-set to turn on for 1 minute and off for 4 minutes. The NFT-2e Timer is preset at 3 minutes on and 5 minutes off. Plug the NFT into any standard outlet. Plug whatever you want to control into the receptacle on the front face and you're done. NFT timers are rated for 15 amps @ 120 volt. 5 year no hassle warranty.



## VSC-DNe

### Variable Fan Speed Controller Day/Night

The VSC-DNe is designed to gradually increase or decrease the speed of centrifugal fans depending on the day or night temperature set-points. The Variable Fan Speed Controller enables you to determine precise temperature levels to achieve within your growing environment by way of proper ventilation. The temperature differential switch can be set at 3°, 5°, or 7°F and comes complete with a 12' probe. The day and night temperature knobs can be set between 50°F and 100°F independently. The built in photocell will automatically sense day or night and adjust the speed of your fan accordingly. The VSC-DNe is rated for 6 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
<b>NFT-1e</b>	Cycle Timer, 1 minute on/4 minutes off . . . . .	<b>\$64.95</b>
<b>NFT-2e</b>	Cycle Timer, 3 minutes on/5 minutes off. . . . .	<b>64.95</b>

Item	Description	MSRP
<b>VSC-DNe</b>	Fan Speed Controller, Day/Night . . . . .	<b>\$84.95</b>

## TMP-1 — Cooling Thermostat

The TMP-1 allows you to control the temperature within your growing environment. Just connect your equipment, then set the temperature that you wish to maintain. If the temperature varies from your setting, the outlet on the front is activated. Comes with a 3' remote sensor. The TMP-1 is rated for 15 amps @ 120 volt. 5 year no hassle warranty.



## TMP-DNe

### Day/Night Temperature Control

The TMP-DNe allows you to control the temperature within your growing environment. You can set the day and night temperatures independently. The TMP-DNe can be set to either heat or cool. Just connect your equipment, then set the temperature that you wish to maintain. If the temperature varies from your setting, the outlet on the front is activated. The temperature differential can be set at 3, 5 or 7 degrees. Comes with a 12' remote sensor. The TMP-DNe is rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
<b>TMP-1</b>	Cooling Thermostat . . . . .	<b>\$62.95</b>

Item	Description	MSRP
<b>TMP-DNE</b>	Temperature Control, Day/Night . . . . .	<b>\$87.95</b>

**Ask For C.A.P. Environmental Controllers At Your Local Hydroponic Store Today!**







## CONTROLLING YOUR WORLD

### AIR-1 — Temperature & Humidity Control

The AIR-1 from C.A.P. allows you to control the temperature and humidity within your growing environment. Connect your ventilation equipment (air conditioner, fan, etc.) to the exhaust outlet. Then set your temperature and humidity to the level that you wish to maintain. If either level is exceeded, the exhaust outlets are activated to reduce heat and humidity. The AIR-1 is rated for 15 amps @ 120 volt. 5 year no hassle warranty.

Item	Description	MSRP
AIR-1	Temp/Humidity Combined Outlet . . . . .	\$154.95



### AIR-2 — Independent Temp & Humidity Control

The AIR-2 from C.A.P. has the same features as the AIR-1 with the addition of separate temperature and humidity outlets. This allows you to control the temperature and humidity independently. Once you connect your temperature controlling device (air conditioner, fan, etc.) and a dehumidifier to the AIR-2, your temperature and humidity are automatically maintained. The AIR-2 is rated for 15 amps @ 120 volt. 5 year warranty.

Item	Description	MSRP
AIR-2	Independent Temp/Humidity Split Outlet . . . . .	\$154.95



### AIR-3 — Temperature, Humidity & CO<sub>2</sub> Control

The AIR-3's operation is similar to the AIR-1, with the addition of a photo cell and CO<sub>2</sub> outlets. The photo cell ensures that your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) only activates when your lights are on. To conserve CO<sub>2</sub>, the CO<sub>2</sub> outlets are automatically disabled while the ventilation equipment is running. The AIR-3 is rated for 15 amps @ 120 volt. 5 year no hassle warranty.

Item	Description	MSRP
AIR-3	Temp/Humidity/CO <sub>2</sub> Control . . . . .	\$229.95





## AIR-3DN — Temperature & CO<sub>2</sub> Control, Day/Night

The AIR-3DN provides the ability to coordinate supplemental CO<sub>2</sub> with your ventilation equipment. It features separate day and night temperature settings. A photo cell ensures that your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) only activates when your lights are on. To conserve CO<sub>2</sub>, the CO<sub>2</sub> outlets are automatically disabled while your ventilation equipment is running. It also has a night heat outlet that allows you to heat the area at night if necessary to maintain the proper temperature. The AIR-3DN is rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
AIR-3DN	Temp/CO <sub>2</sub> Control, Day/Night w/Night On Device . . . . .	\$239.95

## AIR-4 — Independent Temp, Humidity & CO<sub>2</sub> Control

The AIR-4 from C.A.P. has all the features of the AIR-3 with the addition of independent temperature and humidity controls. An additional outlet is provided which will power equipment only during the 'night' cycle. To conserve CO<sub>2</sub>, the CO<sub>2</sub> outlets are automatically disabled while the ventilation equipment is running. The AIR-4 is rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
AIR-4	Temp/Humidity/Ind. Outlet CO <sub>2</sub> , w/Night on Device . . . . .	\$249.95

## HUM-1 — Humidify/Dehumidify Control

The HUM-1 from C.A.P. provides exceptional humidity control. Just plug in your humidifier or dehumidifier into the corresponding outlet, and set the desired humidity on the dial, and you're good to go. Will control humidifiers and dehumidifiers. Rated for 15 amps @ 120 volt. 5 year no hassle warranty.

Item	Description	MSRP
HUM-1	Humidity/Dehumidity Outlet, Controller . . . . .	\$121.95





## CONTROLLING YOUR WORLD

### CO<sub>2</sub>-2e & CO<sub>2</sub>-4e CO<sub>2</sub> Temperature & Humidity Controllers

These controllers make it easy to coordinate your exhaust and CO<sub>2</sub> production. The 2 Timer CO<sub>2</sub> Controller (CO<sub>2</sub>-2e) has 2 timers that allow for efficient control of CO<sub>2</sub> levels, one controls how often CO<sub>2</sub> is released and the other controls how long it is released. It also features temperature and humidity controls that will stop CO<sub>2</sub> production and activate the exhaust outlet if the levels that you set are exceeded. A photosensor disables CO<sub>2</sub> production while the lights are off. The 4 Timer CO<sub>2</sub> Controller (CO<sub>2</sub>-4e) has the same features as the CO<sub>2</sub>-2e, but includes 2 extra timers. The CO<sub>2</sub>-4e features an Overall Cycle Timer that controls the maximum time between exhaust cycles. It also has an Exhaust Cycle Timer to control how long the exhaust fans will run. Both units are expandable to PPM level CO<sub>2</sub> control with the addition of the PPM-1c CO<sub>2</sub> monitor/controller. They are both rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
C02-2e	2 Timer CO <sub>2</sub> Controller.....	\$339.95
C02-4e	4 Timer CO <sub>2</sub> Controller .....	419.95



### HPR-1 High Power Relay

The HPR-1 is perfect for controlling higher loads such as large air conditioners or multiple HID ballasts. You supply 240 volt power to the input side of the HPR-1. The air conditioner or ballasts to be controlled are then hard-wired into the output side of the relay. The 16' trigger cable coming from the HPR-1 is then connected to your control device such as a timer, thermostat, or environmental controller. When the device applies power to the trigger cable, the relay in the HPR-1 applies power to the connected equipment. The HPR-1 is rated at 30 amps @ 240 volt. 5 year no hassle warranty.

Item	Description	MSRP
HPR-1	30 amp Power Relay .....	\$169.95





## CGC-1e & XGC-1e Greenhouse Controllers

The Complete Greenhouse Controller and the Xtreme Greenhouse Controller handle every aspect of an indoor garden, from the lighting and exhaust, to the supplemental CO<sub>2</sub>. The Complete Greenhouse Controller features a 24 hour time clock, 2 outlets for lights, 2 outlets for exhaust fans, thermostat and humistat for temperature and humidity control, 2 pump outlets controlled by a cycle timer, and 2 outlets for supplemental CO<sub>2</sub> controlled by a cycle timer. It ensures that CO<sub>2</sub> production turns off while the exhaust is on and at night. The Xtreme Greenhouse Controller is identical to the Complete Greenhouse Controller, except for the addition of Fuzzy Logic™ CO<sub>2</sub> PPM control built in! Fuzzy Logic™ can be compared to a good driver; as a good driver approaches a red light, he or she applies the brakes to gradually slow down BEFORE getting to the intersection. Fuzzy Logic™ uses the same idea to keep the CO<sub>2</sub> level at your desired setting, without going over the set point. Rated for 15 amps, and has a 5 year no hassle warranty.



Item	Description	MSRP
CGC-1e	Complete Greenhouse Controller	\$479.95
XGC-1e	Xtreme Greenhouse Controller	849.95

## UPM-1 Universal Power Module

The UPM-1 Universal Power Module is a unique device that can allow the user to run additional HID lights or control multiple fans/air conditioners or other high amperage 120 volt equipment. The UPM-1's plug-box is designed to be plugged into a standard household outlet. The 16' trigger cable coming from the UPM-1 is then connected to your control device such as a timer, thermostat, or environmental controller. When the control device applies power to the trigger cable, the relay inside the UPM-1 applies power to the twin outlets on the front of the UPM-1 from the circuit that the UPM-1 is plugged into, not from the controlling devices power. The UPM-1 is rated at 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
UPM-1	Power Module	\$89.95





## CONTROLLING YOUR WORLD

### PPM-1C CO<sub>2</sub> Monitor

When the PPM-1C Monitor from C.A.P. is connected to either the CO<sub>2</sub>-2e, CO<sub>2</sub>-4e or CGC-1e, it commands the controllers to release or produce more CO<sub>2</sub> only when required. The timers built into the atmosphere controllers continue to coordinate with the PPM-1C to give you the precision control not possible with other manufacturers CO<sub>2</sub> control systems using only on/off control. You enter the level of CO<sub>2</sub> you want to maintain (usually 1500 PPM) and you're done. 5 year no hassle warranty.



Item	Description	MSRP
PPM-1C	PPM-1C Add-On Monitor . . . . .	\$479.95

### PPM-2A The Fuzzy Logic CO<sub>2</sub> Controller

People who need the absolute best CO<sub>2</sub> controller available today, use the Fuzzy Logic™ CO<sub>2</sub> Controller from C.A.P. What sets it apart from the competition? Fuzzy Logic can be compared to a good driver. As a good driver approaches a red light, he or she applies the brakes to gradually slow down BEFORE getting to the intersection. Fuzzy Logic uses the same idea to bring the CO<sub>2</sub> level up to the desired setting without overshooting the desired CO<sub>2</sub> level. The Fuzzy automatically "dials-in" the exact parameters for your area. It learns how your grow area uses CO<sub>2</sub> and adapts to keep the CO<sub>2</sub> levels constant. The Fuzzy can be connected to a temperature or environmental controller, disabling the CO<sub>2</sub> function while your exhaust fans are running to reduce CO<sub>2</sub> waste. The Fuzzy is capable of being used to control both compressed CO<sub>2</sub> and gas-burning CO<sub>2</sub> generators. When used with a CO<sub>2</sub> generator, you can change from the Fuzzy mode to on/off control which eliminates the rapid cycling of the CO<sub>2</sub> generator. The Fuzzy will control any make of CO<sub>2</sub> valve or generator that is 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
PPM-2A	Fuzzy Logic CO <sub>2</sub> Controller . . . . .	\$669.95



### PPM-3 CO<sub>2</sub> Monitor/Controller

The PPM-3 Monitor/Controller is very accurate at measuring levels of Carbon Dioxide in your growing area from 0 to 5000 ppm. Using the PPM-3 is quite simple; just plug your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) into the "piggyback" cord and it will automatically maintain the CO<sub>2</sub> level that you specify. The PPM-3 works with any make of CO<sub>2</sub> valve or generator that is 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
PPM-3	PPM Monitor/Controller . . . . .	\$479.95

## PPM-4 CO<sub>2</sub> Monitor/Controller

The PPM-4 is the newest addition to CAP's CO<sub>2</sub> controller lineup. This economical device is the simplest method of monitoring and controlling CO<sub>2</sub> dispersal throughout the growing area. The simplicity of this unit will make it attractive to both the beginner and seasoned grower alike. Operating the PPM-4 is as easy as mounting the meter to the wall, plugging the meter into the power interface and plugging in your CO<sub>2</sub> generator or regulator. The PPM-4 utilizes a highly visible LED display to let you know the approximate CO<sub>2</sub> level at a glance from across the room. 3 year warranty.

- THE MOST INEXPENSIVE CO<sub>2</sub> CONTROLLER IN THE USA
- PRE-SET SET POINTS
- INCLUDES A WALL MOUNTED INFRARED SENSOR WITH A 10' CORD AND A PLUG-IN PASS-THROUGH CONTROLLER/POWER SUPPLY
- DESIGNED FOR USE WITH CO<sub>2</sub> GENERATORS
- ALSO WORKS WITH CO<sub>2</sub> REGULATORS



Item	Description	MSRP
PPM-4	PPM Monitor/Controller . . . . .	\$269.95

## PTC Photocell Controllers

The PTC series of photo controllers from C.A.P. are perfect when you need to turn something on only during daylight hours or only at night. A photocell senses whether it is day or night, and turns the device plugged into it on or off depending on which model you are using. The PTC-1 Photo Controller turns on whatever is plugged into it during the day when the lights are on. The PTC-2 Photo Controller turns on the device during the night when the lights are off. PTC's are rated for 15 amps @ 120 volt. 5 year no hassle warranty.



Item	Description	MSRP
PTC-1	Day ON Timer . . . . .	\$69.95
PTC-2	Night ON Timer . . . . .	69.95



# VERSATILITY & SAFETY

**C.A.P. manufactures its CO<sub>2</sub> Generators to meet your specific gardening needs. Our units are made with your safety in mind and are fully versatile. Made in USA.**

## GEN-1 & GEN-2 PROPANE & NATURAL GAS CO<sub>2</sub> GENERATORS

Carbon Dioxide (CO<sub>2</sub>) is one of the easiest ways to accelerate plant growth. Plants grown with supplemental CO<sub>2</sub> can produce up to 35% more flowers or fruit. A propane or natural gas CO<sub>2</sub> generator is the most cost effective way to add CO<sub>2</sub> to your environment. Many greenhouses use CO<sub>2</sub> generators to boost CO<sub>2</sub> levels safely and economically. C.A.P. has developed some of the safest and most reliable CO<sub>2</sub> generators. They are capable of producing between 15 and 30 cubic feet of CO<sub>2</sub> per hour. C.A.P. manufactures 2 models, The GEN-1 and the GEN-2.

The GEN-1 is recommended for small to medium size areas up to 15' x 15'. The GEN-2 is recommended for larger areas up to 50' x 50'. Both the GEN-1 and the GEN-2 units feature a two-stage safety pilot valve, which will not allow fuel to flow to the burner unless the pilot is lit. They both come with a standard tip switch that will shut down the fuel to the main burner in the event the unit falls or tips over. Two ignition methods are available; the standard generator uses a pilot light to

light the burners. This means that the pilot light is always burning, even when the burners are off. Electronic Ignition, which creates a spark to light the burners, is the most popular.

The C.A.P. CO<sub>2</sub> generators are constructed of powder coated steel enclosures that resist moisture, rust, and discoloration. They will provide years of trouble-free operation. The GEN-1 and GEN-2 are manufactured in the USA using only AGA and/or UL listed components that are appropriate for use with both propane and natural gas. The units come complete with a low-pressure, in-line natural gas regulator or the new Type 1 style no-tool-required propane regulator that makes tank replacement easy. C.A.P. CO<sub>2</sub> generators operate up to 100 degrees cooler than other competitive products. The GEN-1 and GEN-2 can also be easily converted from propane to natural gas or vice-versa in less than 10 minutes with an inexpensive kit. The GEN-1 produces 15 cubic feet of CO<sub>2</sub> per hour. The GEN-2 produces 30 cubic feet of CO<sub>2</sub> per hour.







## CONTROLLING YOUR WORLD

### Standing Pilot Light Generators, Below 3500' Altitude

MSRP

<b>GEN-1LP</b>	GEN-1 Propane, CO <sub>2</sub> Generator	\$409.95
<b>GEN-2LP</b>	GEN-2 Propane, CO <sub>2</sub> Generator	579.95
<b>GEN-1NG</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator	409.95
<b>GEN-2NG</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator	579.95

### Electronic Ignition Generators, Below 3500' Altitude

<b>GEN-1eLP</b>	GEN-1 Propane, CO <sub>2</sub> Generator	\$469.95
<b>GEN-2eLP</b>	GEN-2 Propane, CO <sub>2</sub> Generator	639.95
<b>GEN-1eNG</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator	469.95
<b>GEN-2eNG</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator	639.95

### Standing Pilot Light Generators, Mid & High Altitude

MSRP

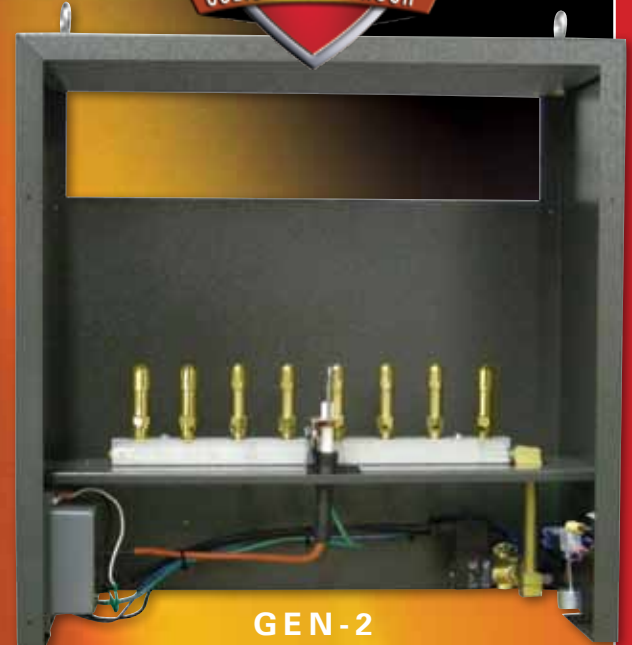
<b>GEN-1LP6500</b>	GEN-1 Propane, CO <sub>2</sub> Generator 3500-6500'	\$409.95
<b>GEN-1LP6500+</b>	GEN-1 Propane, CO <sub>2</sub> Generator 6500'+	409.95
<b>GEN-2LP6500</b>	GEN-2 Propane, CO <sub>2</sub> Generator 3500-6500'	579.95
<b>GEN-2LP6500+</b>	GEN-2 Propane, CO <sub>2</sub> Generator 6500'+	579.95
<b>GEN-1NG6500</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator 3500-6500'	409.95
<b>GEN-1NG6500+</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator 6500'+	409.95
<b>GEN-2NG6500</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator 3500-6500'	579.95
<b>GEN-2NG6500+</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator 6500'+	579.95

### Electronic Ignition Generators, Mid & High Altitude

<b>GEN-1eLP6500</b>	GEN-1 Propane, CO <sub>2</sub> Generator 3500-6500'	\$469.95
<b>GEN-1eLP6500+</b>	GEN-1 Propane, CO <sub>2</sub> Generator 6500'+	469.95
<b>GEN-2eLP6500</b>	GEN-2 Propane, CO <sub>2</sub> Generator 3500-6500'	639.95
<b>GEN-2eLP6500+</b>	GEN-2 Propane, CO <sub>2</sub> Generator 6500'+	639.95
<b>GEN-1eNG6500</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator 3500-6500'	469.95
<b>GEN-1eNG6500+</b>	GEN-1 Natural Gas, CO <sub>2</sub> Generator 6500'+	469.95
<b>GEN-2eNG6500</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator 3500-6500'	639.95
<b>GEN-2eNG6500+</b>	GEN-2 Natural Gas, CO <sub>2</sub> Generator 6500'+	639.95

### MINUTES TO ENRICH AN AREA TO 1250 PPM

Model	Cubic Feet (LxWxH)					
	500	1000	1500	2000	2500	3000
<b>GEN-1 w/4 Burners</b>	2	4	6	8	10	12
<b>GEN-2 w/8 Burners</b>	1	2	3	4	5	6



GEN-2



5 Year  
Warranty!

# CO<sub>2</sub> Equipment

## C.A.P. Propane Cross Over

We offer a simple device which allows you to connect your propane CO<sub>2</sub> generator to two tanks so that when one runs low, it can be changed out without affecting the operation of the generator. You can run off of both tanks at the same time or one at a time.

Item	Description	MSRP
LXO-1	Propane Cross Over .....	\$81.95



## Extension Hoses & Coupler

Item	Description	MSRP
ZGAS-005	GEN-1&2 Gas Extension Hose, 12'(Maximum 36') .....	\$19.95
FTG-028	Extension Hose Coupler .....	5.95



## Natural Gas Regulator

C.A.P. offers one style of NG regulator for our CO<sub>2</sub> generators. ZREG-003 comes standard with all NG CO<sub>2</sub> generators. It is available below as a replacement part for both electronic ignition and the pilot light version models of our NG CO<sub>2</sub> generators.

Item	Description	MSRP
ZREG-003	Regulator for all Natural Gas CO <sub>2</sub> Generators .....	\$29.95



## Propane Regulators

C.A.P. offers two styles of LP regulators for our CO<sub>2</sub> generators. ZREG-002 comes standard with all LP model CO<sub>2</sub> generators. It is available below as a replacement part for both the electronic ignition and the pilot light version models of our LP CO<sub>2</sub> Generators. ZREG-006 is also for both electronic and pilot light versions, except it is sold as an after market part for those individuals that have the older style LP tanks.

Item	Description	MSRP
ZREG-002	Regulator for all LP CO <sub>2</sub> Generators .....	\$29.95
ZREG-006	Regulator for old LP style CO <sub>2</sub> Generators .....	19.95



## Replacement Burners for All CO<sub>2</sub> Generator Models

Replacement Burners for All CO <sub>2</sub> Generator Models		MSRP
BNR-76LP	Replacement Burner, Propane (Below 3500') .....	\$29.95
BNR-77LP	Replacement Burner, Propane (Mid Altitude 3500-6500') .....	29.95
BNR-78LP	Replacement Burner, Propane (High Altitude 6500'+) .....	29.95
BNR-66NG	Replacement Burner, Natural Gas (Below 3500') .....	29.95
BNR-67NG	Replacement Burner, Natural Gas (Mid Altitude 3500-6500') .....	29.95
BNR-68NG	Replacement Burner, Natural Gas (High Altitude 6500'+) .....	29.95

## CO<sub>2</sub> Generator Power Supplies



### Power Supplies

MSRP

<b>ZMCE-008</b>	Pilot Models, 18VDC . . . . .	<b>\$15.95</b>
<b>ZMCE-021</b>	Elec. Ignition Models, 24 VAC, 1-1.2MA . . . . .	<b>18.95</b>

### CO<sub>2</sub> Generator Conversion Kits

MSRP

<b>LPC-1</b>	Regulator Converts from NG to LP . . . . .	<b>\$44.95</b>
<b>NGC-1</b>	Regulator Converts from LP to NG . . . . .	<b>44.95</b>

(Replacement Burners not included)

## C.A.P. CO<sub>2</sub> Regulators

CO<sub>2</sub> Regulator/Emitter will allow you to maintain ideal CO<sub>2</sub> levels for optimum growth. It features an accurate, easy to adjust CO<sub>2</sub> flow meter, a pre-set regulator that never needs adjusting, and a solenoid valve. Each unit also comes with the tubing needed to disperse the CO<sub>2</sub> evenly throughout your room by attaching the tubing to the back of an oscillating fan. The flow rate is adjustable from .5 - 15 Cubic Feet Per Hour. If you are using this without a digital CO<sub>2</sub> controller, you will need to use a timer (The Intermatic Grounded Timer is recommended). A dual tank regulator is also available for running 2 CO<sub>2</sub> tanks at the same time, doubling the time between refills!

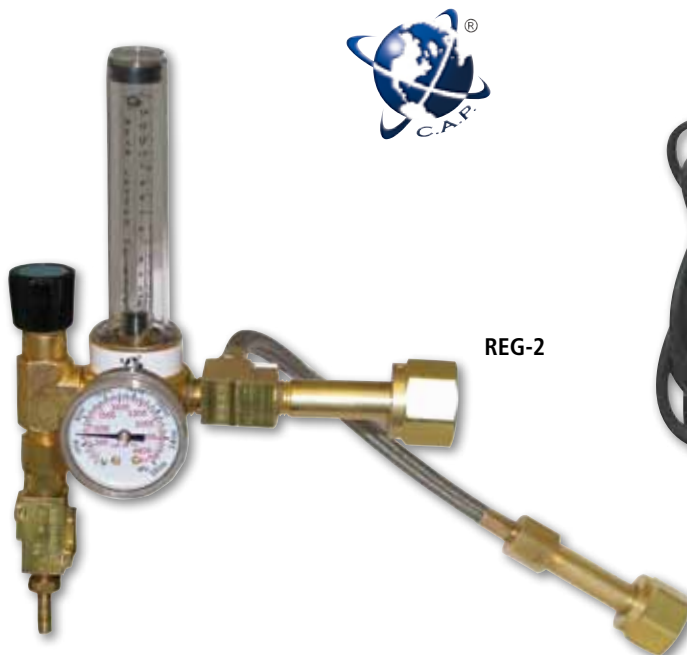
### C.A.P. CO<sub>2</sub> Regulators

MSRP

<b>REG-1</b>	CO <sub>2</sub> Regulator . . . . .	<b>\$129.95</b>
<b>REG-2</b>	Dual Tank CO <sub>2</sub> Regulator. . . . .	<b>239.95</b>

### Replacement Parts

<b>ZREG-WASHER</b>	Bag of 4 Washers. . . . .	<b>1.95</b>
<b>ZREG-SCFH</b>	Outer Flow tube. . . . .	<b>4.95</b>



REG-2



REG-1

## Aluminum CO<sub>2</sub> Tanks

Our Aluminum CO<sub>2</sub> Tanks are about 1/2 the weight of standard steel tanks. Complete with plastic collar to prevent damage during transportation and use. Certified for CO<sub>2</sub> use only. They do not come filled.

Item	Description	MSRP
<b>COTANK</b>	20 lb. Aluminum CO <sub>2</sub> Tank. . . . .	<b>\$184.95</b>
<b>COTANK5</b>	50 lb. Aluminum CO <sub>2</sub> Tank. . . . .	<b>449.95</b>



## OBEY YOUR

# MASTER



### MLC-4X & 4XT — Master Lighting Controllers

The MLC-4X and MLC-4XT Master Lighting Controllers are the best devices for controlling up to four HID lights from one time-clock or controller. You run 30 amp, 120/240 volt power into the MLC, and all of the outlets are controlled by one 120 volt trigger cable. You can plug the trigger cable into a standard 24 hour timer, environmental controller, or one of the C.A.P. HLC series of garden and lighting protection devices. The MLC-4X and MLC-4XT have four Universal X-Plug outlets which allows for running your ballasts at 120/240 volt without having to change out your ballast power cords. The MLC-4XT has an integrated timer that allows you to control your MLC with the built-in time clock. The MLC-4's are rated for 30 amps @ 120/240 volt. 5 year no hassle warranty.

Item	Description	MSRP
<b>MLC-4X</b>	MLC 4 Light Controller (120/240 volt, Universal X-Plug) . . . . .	<b>\$149.95</b>
<b>MLC-4XT</b>	MLC 4 Light Controller w/Timer (120/240 volt, Universal X-Plug) . . . . .	<b>174.95</b>



Universal X-Plug  
120v/240v

### MLC-8X, 8XT, & 8DX — Master Lighting Controllers

The MLC-8X, MLC-8XT, and MLC-8DX Master Lighting Controllers are the best devices for controlling up to eight 1000 watt HID lights from one time clock or controller. You run 50 amp, 120/240 volt power into the MLC, and all of the outlets are controlled by one 120 volt trigger cable. You can plug the trigger cable into a standard 24 hour timer, environmental controller or one of the C.A.P. HLC series of garden and lighting protection devices. The MLC-8X, MLC-8XT, and MLC-8DX have eight Universal X-Plug outlets which allows for running your ballasts at 120/240 volt without having to change out your ballast power cords. The MLC-8XT has an integrated timer option available, which allows you to control your MLC with the built-in time clock. The MLC-8DX has dual trigger cables to split 2 series of 4 lights. 5 year no hassle warranty.

Item	Description	MSRP
<b>MLC-8X</b>	MLC 8 Light Controller (120/240 volt, Universal X-Plug) . . . . .	<b>\$219.95</b>
<b>MLC-8XT</b>	MLC 8 Light Controller, w/Timer (120/240 volt, Universal X-Plug) . . . . .	<b>254.95</b>
<b>MLC-8DX</b>	MLC 8 Light Controller, Dual Trigger Cable (120/240 volt, Universal X-Plug) . . . . .	<b>234.95</b>



Universal X-Plug  
120v/240v

### Accessories

C.A.P. provides an alternative to hard wiring your MLC-4X & 8X. We offer 2 styles of dryer and range cords.



CRD-001



CRD-002



CRD-003



CRD-004

Item	Description	MSRP
<b>CRD-001</b>	Dryer Cord, 6' 3 Cond. 30 amps . . . . .	<b>\$14.95</b>
<b>CRD-002</b>	Dryer Cord, 6' 4 Cond. 30 amps . . . . .	<b>24.95</b>
<b>CRD-003</b>	Range Cord, 6' 3 Cond. 50 amps . . . . .	<b>29.95</b>
<b>CRD-004</b>	Range Cord, 6' 4 Cond. 50 amps . . . . .	<b>39.95</b>

# Lighting Controllers



## MLC-16X, MLC-16DX, MLC-24X & MLC-24DX — Master Lighting Controllers

The MLC-16X and MLC-24X represent the latest in large scale lighting control. They are the best devices for controlling up to 24 lights from one time clock or controller. You run either 80 (MLC-16X) or 120 (MLC-24X) amp power to the MLC, and all of the outlets are controlled by one 120 volt trigger cable. You can plug the trigger cable into a standard 24 hour timer or environmental controller. The MLC-16X and 24X feature standard Universal X-Plug outlets, which allows for running your ballasts at 120/240 volt without having to change out your ballast power cords. The MLC-16X has 16 outlets and contains 4 banks of 4 lights. The MLC-24X has 24 Universal X-Plug outlets and contains 6 banks of 4 lights. Dual trigger cables are also available to split half the outlets on separate timing cycles. Each bank of 4 lights is protected by a 20 amp circuit breaker. 5 year no hassle warranty.

Item	Description	MSRP
<b>MLC-16X</b>	MLC 16 Lights (120/240 volt, Universal X-Plug) . . . . .	<b>\$619.95</b>
<b>MLC-16DX</b>	MLC 16 Lights, Dual Trigger Cable (120/240 volt, Universal X-Plug) . . . . .	<b>644.95</b>
<b>MLC-24X</b>	MLC 24 Lights (120/240 volt, Universal X-Plug). . . . .	<b>729.95</b>
<b>MLC-24DX</b>	MLC 24 Lights, Dual Trigger Cable (120/240 volt, Universal X-Plug) . . . . .	<b>759.95</b>



Universal X-Plug  
120v/240v

## MLC-12X+4 & 20X+4 — Master Lighting Controllers w/4 120 volt Auxiliary Outlets **YOU ASKED FOR IT...HERE IT IS!**

The best choice for moderate to large scale gardens, the MLC 12X+4 and the MLC 20X+4 lighting controllers deliver performance and value while still providing the safety and reliability you have come to expect from C.A.P. These devices are capable of controlling up to 20 lights from a single trigger cord. Simply attach a 24-hour timer or control device to the 120 volt trigger cable, set your interval and you're done. The MLC-12X+4 and 20X+4 feature standard Universal X-Plug outlets, which allows for running your ballast at 120/240 volt without having to change out your ballast power cords and **4 constantly on (non-controlled) outlets to control your equipment at 120 volt.** 5 year no hassle warranty.

Item	Description	MSRP
<b>MLC-12X+4</b>	MLC 12 Lights (120/240 volt, Universal X-Plug) + (4 120 volt outlets) . . . . .	<b>\$619.95</b>
<b>MLC-20X+4</b>	MLC 20 Lights, (120/240 volt, Universal X-Plug) + (4 120 volt outlets) . . . . .	<b>729.95</b>



Auxiliary Outlet 120v



Universal X-Plug  
120v/240v



**5 Year  
Warranty!**



# Controlling your World



**PPM-2a**

Fuzzy Logic CO<sub>2</sub> Controller



CO<sub>2</sub> Generator

**GEN-2E**

Complete Line of Greenhouse and Hydroponic Equipment



**CO<sub>2</sub>-4e**

CO<sub>2</sub> Temperature & Humidity Controller



**AIR-4**

CO<sub>2</sub> & Atmospheric Controller



# AIR CONDITIONING







## THE IMPORTANCE OF STAYING COOL



Choosing the proper A/C unit for your environment should be a rather painless experience as long as you pay attention to what exactly it is you need and expect from your air conditioning unit. Choosing an A/C unit that is too small may be inadequate to cool the room. Adversely, an air conditioner that is too large will actually cool the room too quickly, causing it to cycle on and off, wasting electricity. Air conditioners are generally rated in either BTU (British Thermal Units) for room sized air conditioners or they will be classed by tons (12,000 BTU per ton) when dealing with larger cooling systems.

Important factors to consider when choosing your garden's air conditioner:

- Volume

The amount of space you are trying to cool is generally the one of first considerations for choosing your air conditioner. The first thing to do is calculate the square feet of your grow space by multiplying the length x width

- Temperature

The second step will be calculating your additional cooling needs based on equipment. This can be summed up by adding in approximately 4,000 BTU per 1,000w of H.I.D. lighting.



## Wall Mounted Split Air Conditioners with Quick Connects

SANYO wall mounted air conditioners offer the utmost in versatility in solving your cooling needs. By utilizing environmentally friendly R-410a refrigerant and DC Inverter technology, the SANYO air conditioner automatically adjusts its performance to meet the changing needs of the space while maintaining the desired temperature. This leads to increased efficiencies, low energy consumption and a very comfortable growing environment. The higher the SEER Rating, the more BTU's of cooling energy it produces per watt.

**BTU: 12,000-36,000 BTU/H**

### Features:

- Energy-Savings Operation
- Quiet Operation
- High SEER
- R-410A
- Rapid Cooling
- Microprocessor Controlled Operation
- Wireless Remote Control
- Dry Mode
- 3 Fan Speeds and Automatic Fan Operation
- Air Sweep Control
- Louver Control
- Negative Ions Generator
- 1-hour OFF Timer
- 12-hour ON/OFF Timer
- 24-hour Clock with ON/OFF Program Timer
- Night Setback Mode
- Automatic Restart Function after Power Failure
- Air Clean Apatite Filter
- Anti-mold Filter
- Electric Refrigerant Control Valve



**DO NOT REQUIRE HVAC LICENSED INSTALLERS!!**

Item	Description	MSRP
SPAC-001	11,900 BTU, 1 Ton, 115v@60Hz	\$1,479.95
SPAC-002	11,900 BTU, 1 Ton, Low Ambient Air, 115v@60Hz	1,759.95
SPAC-003	24,200 BTU, 2 Ton, 230v@60Hz	2,269.95
SPAC-004	24,200 BTU, 2 Ton, Low Ambient Air, 230v@60Hz	2,859.95
SPAC-005	31,400 BTU, 3 Ton, Low Ambient Air, 230v@60Hz	5,559.95

### WALL MOUNTED LOW AMBIENT AIR CONDITIONERS

Note: For air conditioner operation below 50° F outdoor temperatures, a Low Ambient System will be required for low outdoor temperature operation. For Example, a grow room installation in NY (which cooling operation would be needed 24/7-365) where outdoor temperatures drop below 50° F a Low Ambient unit would be used.

### Recommended A/C BTU Requirements

Light Qty	Cumulative Wattage*		Recommended A/C BTU's For Moderate/ High Ambient Temps		Recommended A/C BTU's For Low/Moderate Ambient Temps	
	1000 H.P.S.	600 H.P.S.	1000 H.P.S.	600 H.P.S.	1000 H.P.S.	600 H.P.S.
1	1,000	600	4,000	2,400	3,250	1,950
2	2,000	1,200	8,000	4,800	6,500	3,900
3	3,000	1,800	12,000	7,200	9,750	5,850
4	4,000	2,400	16,000	9,600	13,000	7,800
5	5,000	3,000	20,000	12,000	16,250	9,750
6	6,000	3,600	24,000	14,400	19,500	11,700
7	7,000	4,200	28,000	16,800	22,750	13,650
8	8,000	4,800	32,000	19,200	26,000	15,600
9	9,000	5,400	36,000	21,600	29,250	17,550
10	10,000	6,000	40,000	24,000	32,500	19,500
11	11,000	6,600	44,000	26,400	35,750	21,450
12	12,000	7,200	48,000	28,800	39,000	23,400
13	13,000	7,800	52,000	31,200	42,250	25,350
14	14,000	8,400	56,000	33,600	45,500	27,300
15	15,000	9,000	60,000	36,000	48,750	29,250
16	16,000	9,600	64,000	38,400	52,000	31,200

\*CUMULATIVE WATTAGE IS CALCULATED BY MULTIPLYING YOUR LIGHT QUANTITY BE THE WATTAGE RATING OF EACH BULB USED



For More Information Go To <http://us.sanyo.com/hvac>





### Air-Cooled Air Conditioners

The KwiKool **Air-Cooled Air Conditioners** works great for spot cooling, supplemental cooling, and most other cooling applications. These units are equipped with advanced features such as: micro-processor controls, I/O Integral condenser, and heavy duty insulated cabinet. They can be used either inside of the room, with the 2 large vents ducting outside air (available below), or outside of the room, with the cold air and return ducting into the room (available below). You have total control with KwiKool. Contact us or visit [www.kwikool.com](http://www.kwikool.com) for complete specifications. **Ceiling kit and return flanges are required for most installations and are not included. Please see accessories on pg. 60.**



**KKAC1411**  
13,700 Btu (1.1 Ton)  
16" x 36" x 41" - 174 lbs  
120v - 14 amps  
**MSRP: \$3,349.95**



**KKAC1811**  
17,700 Btu (1.5 Ton)  
16" x 36" x 41" - 217 lbs  
120v - 18 amps  
**MSRP: \$3,999.95**



**KKAC2411**  
23,500 Btu (2 Ton)  
21" x 41" x 41" - 294 lbs  
120v - 20 amps  
**MSRP: \$5,299.95**



**KKAC3021**  
29,500 Btu (2.5 Ton)  
24" x 41" x 41" - 304 lbs  
208v/230v - 17 amps  
**MSRP: \$5,499.95**

**KKAC2421**  
23,500 Btu (2 Ton)  
21" x 41" x 41" - 294 lbs  
208v/230v - 13 amps  
**MSRP: \$4,599.95**



**KKAC4221**  
42,000 Btu (3.5 Ton)  
24" x 53" x 58" - 426 lbs  
208v/230v - 37 amps  
**MSRP: \$6,999.95**

**KKAC6021**  
60,000 Btu (5 Ton)  
24" x 53" x 58" - 527 lbs  
208v/230v - 50 amps  
**MSRP: \$9,399.95**

**KKAC6043**  
60,000 Btu (5 Ton)  
24" x 53" x 58" - 527 lbs  
460v 3 phase - 18 amps  
**MSRP: \$9,999.95**



**KKAC12043**  
120,000 Btu (10 Ton)  
32" x 71" x 68" - 1100 lbs  
208v-240v 3 phase - 70 amps  
**MSRP: \$15,599.95**

**KKAC12023**  
120,000 Btu (10 Ton)  
32" x 71" x 68" - 1100 lbs  
460v 3 phase - 33 amps  
**MSRP: \$15,599.95**

**BUILT FOR  
COMMERCIAL  
APPLICATIONS**

### Portable Air Conditioners

For industrial use, greenhouses, warehouses, and more. A commercial portable air conditioner offers sturdy construction, reliability, and an array of useful features. A commercial portable air conditioner can provide the powerful and reliable cooling that you need, and you can take it with you when you leave.

The **KwiKool Portable Air Conditioner** can be used in almost any environmental condition. It is rated from 60° to 110°F and functions perfectly as a spot cooler. But it does more – much more. The KwiKool Air Conditioner has a thermostatic expansion valve which adjusts the flow of freon to suit the ambient conditions. Its sophisticated microprocessor control system and advanced constant pressure and fan-control freeze protection allows the unit to maintain a temperature set point with pinpoint accuracy for critical environments at temperatures down to 60°F. KwiKool's unique In/Out Integral Condenser system (see diagram) is what you want to use. This exclusive feature brings air from outside of the conditioned space to cool its condenser, then pumps the hot air back outside of the cooled room totally isolating the condenser air from the enclosed cooled area. Outside air and inside air are never mixed (ducting not included). This is a balanced air flow system and is the only Portable Air Conditioner on the market today that has this unique ability built-in.

They are available in 3 different configurations to match your situation. Standard, Split (the compressor can be located up to 100' away from the air handler), and Water Cooled, where no condensor ducting is needed. Please note that these are **TRUE BTU Values**, not over-hyped ratings by the cheap manufacturers.





### Split Air Conditioners

The KwiKool **Split Air model** is a portable split system designed to meet cooling applications where a remote condenser is needed. The KwiKool comes standard with a 20' braided stainless steel pre-charged line set. You can add up to 2 more 20' line sets for a total of 60'. They can be connected/disconnected as many times as you wish. Also available is a 60' copper line set for more permanent situations (professional installation required). Both are equipped with Kwik-disconnect refrigerant couplers. Contact us or visit [www.kwikool.com](http://www.kwikool.com) for complete specifications. **Ceiling kit and return flanges are required for most installations and are not included. Please see accessories on pg. 60.**



**KKSP1411**  
13,850 Btu (1.1 Ton)  
16" x 16" x 41"  
16" x 17" x 36" - 261 lbs  
120v - 12 amps  
**MSRP: \$4,399.95**

**KKSP1811**  
17,700 Btu (1.5 Ton)  
16" x 16" x 41"  
16" x 17" x 36" - 261 lbs  
120v - 18 amps  
**MSRP: \$4,899.95**

**KKSP2411**  
23,500 Btu (2 Ton)  
21" x 21" x 41"  
21" x 21" x 41" - 338 lbs  
120v - 20 amps  
**MSRP: \$6,299.95**

**KKSP2421**  
23,500 Btu (2 Ton)  
21" x 21" x 41"  
21" x 21" x 41" - 338 lbs  
208v/230v - 13 amps  
**MSRP: \$5,699.95**

**KKSP3021**  
29,500 Btu (2.5 Ton)  
21" x 21" x 41"  
21" x 21" x 41" - 344 lbs  
208v/230v - 17 amps  
**MSRP: \$6,599.95**

**KKSP4221**  
42,200 Btu (3.5 Ton)  
23" x 24" x 48"  
24" x 22" x 58" - 344 lbs  
208v/230v - 35 amps  
**MSRP: \$8,099.95**

**KKSP6021**  
60,000 Btu (5 Ton)  
23" x 24" x 48"  
24" x 23" x 35" - 655 lbs  
208v/230v - 45 amps  
**MSRP: \$10,699.95**

**KKSP6043**  
60,000 Btu (5 Ton)  
23" x 24" x 48"  
24" x 23" x 35" - 655 lbs  
460v 3 phase - 18 amps  
**MSRP: \$11,399.95**

**All Models: Tank15**  
15-Gal Tank  
**MSRP: \$199.00**

### Water-Cooled Air Conditioners

The KwiKool **Water-Cooled Air Conditioner** is a portable system that does not need airflow to cool the condenser. They are much smaller and use less amperage than air-cooled models. Any water source such as chilled water, condenser water from a cooling tower, or even water from a garden hose attached to a spigot can make this KwiKool unit work for you. Water flow requirements are dependent on water intake temperature. Contact us or visit [www.kwikool.com](http://www.kwikool.com) for complete specifications. **Please see accessories on pg. 60.**



**KKWC1411**  
13,850 Btu (1.1 Ton)  
17" x 22" x 40" - 145 lbs  
120v - 12 amps  
**MSRP: \$3,299.95**

**KKWC1811**  
17,700 Btu (1.5 Ton)  
17" x 22" x 40" - 151 lbs  
120v - 17 amps  
**MSRP: \$3,799.95**



**KKWC3021**  
29,500 Btu (2.5 Ton)  
21" x 22" x 40" - 210 lbs  
208v/230v - 12 amps  
**MSRP: \$5,199.95**



**KKWC4221**  
42,200 Btu (3.5 Ton)  
23" x 24" x 48" - 285 lbs  
208v/230v - 26 amps  
**MSRP: \$6,599.95**



**KKWC6021**  
60,000 Btu (5 Ton)  
24" x 26" x 58" - 380 lbs  
208v/230v - 34 amps  
**MSRP: \$8,999.95**



**KKWC2411**  
23,500 Btu (2 Ton)  
21" x 22" x 40" - 200 lbs  
120v - 18 amps  
**MSRP: \$4,999.95**

**KKWC2421**  
23,500 Btu (2 Ton)  
21" x 22" x 40" - 200 lbs  
208v/230v - 9 amps  
**MSRP: \$4,299.95**

**KKWC6043**  
60,000 Btu (5 Ton)  
24" x 26" x 58" - 380 lbs  
460v 3 phase - 14 amps  
**MSRP: \$9,599.95**

**KKWC12023**  
120,000 Btu (10 Ton)  
33" x 44" x 68" - 700 lbs  
208v/230v 3 phase 72 amps  
**MSRP: \$14,999.95**

**KKWC12043**  
120,000 Btu (10 Ton)  
33" x 44" x 68" - 700 lbs  
460v 3 phase - 33 amps  
**MSRP: \$14,999.95**



# Portable Air Conditioners



The smallest, most versatile 12-Ton Indoor/Outdoor Portable Air Conditioner in the world!

## KPO 12 Portable Air Conditioner

Introducing KwiKool's KPO model portable indoor/outdoor package unit. This innovative product combines the compact size, portability, and great features that you've grown accustomed to with KwiKool products, but with the punch and performance of a prizefighter.

The KPO offers 12 tons of cooling in an incredibly small package, similar to the size of most 5 ton models from other manufacturers. The super small 32"x 64" footprint of this unit allows it to fit through a standard 36" door and can be used outside by ducting the cold air in, or inside by ducting the hot air out. Flexible power and duct connections are secured in seconds and ensure rapid set up & tear-down with minimum hassle, time, and cost. Our heavy duty integral skid has wheels and fork access for easy movement, setup, and transport.

### KPO Portable Air Conditioner

		wt.	MSRP
<b>KKPO12-23</b>	139,400 BTU (12 Ton) Portable Air Conditioner 32 x 64 x 62, 230v -72 amps	1,100 lb.	<b>\$24,999.95</b>
<b>KKPO12-43</b>	139,400 BTU (12 Ton) Portable Air Conditioner 32 x 64 x 62, 460v -36 amps	1,100 lb.	<b>24,999.95</b>

- Maximum flexibility for both indoor and outdoor applications
- Extra Small Size at W-32" x L-64" x H-62"
- Skid mounted with removable 8" durable wheels for easy & flexible mobility
- Condenser, cold supply & return air can be ducted using high static blowers
- Cam locks with internal circuit breaker for easy power hook up
- Phase & power monitor provides electrical protection from power quality issues
- Low ambient temperature controls
- Digital controls with auto restart and short cycle protection



### KwiKool CD

Disc containing complete information on the KwiKool line of portable air conditioners.



Freon Line Set

### Air Cooled Unit Accessories

	MSRP	Models
<b>KKCK12</b> 12" Ceiling Kit with Two Ducts	\$274.95	
<b>KKDCR12</b> 12" Condenser/Return Air Flange	\$34.95	<b>KKAC1011</b>
<b>KKDCT12</b> 12" Non-Insulated Duct (Cost per foot)	\$11.95	<b>KKAC1411</b>
<b>KKDC12</b> Air Chute Kit w/2, 5" Air Chutes (KKAC1811 Only)	\$224.95	<b>KKAC1811</b>
<b>KKCK24</b> 14" Ceiling Kit with Two Ducts	\$399.95	
<b>KKDCR14</b> 14" Condenser/Return Air Flange	\$39.95	<b>KKAC2411,</b>
<b>KKDCT14</b> 14" Non-Insulated Duct (Cost per foot)	\$14.95	<b>KKAC2421,</b>
<b>KKDC24</b> Air Chute Kit with 2, 6" Cold Air Chutes	\$244.95	<b>KKAC3021</b>
<b>KKCK42</b> 18" Ceiling Kit with Two Ducts	\$449.95	
<b>KKDCR18</b> 18" Condenser/Return Air Flange	\$44.95	<b>KKAC4221</b>
<b>KKDCT18</b> 18" Non-Insulated Duct (Cost per foot)	\$25.95	
<b>KKCK60</b> 20" Ceiling Kit with Two Ducts	\$499.95	
<b>KKDCR20</b> 20" Condenser/Return Air Flange	\$47.95	<b>KKAC6021</b>
<b>KKDCT20</b> 20" Non-Insulated Duct (Cost per foot)	\$29.95	<b>KKAC6043</b>
<b>KKCK60</b> 20" Ceiling Kit with Two Ducts	\$499.95	
<b>KKDCR20</b> 20" Condenser/Return Air Flange	\$47.95	<b>KKAC12043</b>
<b>KKRA120</b> 20" Return Air Flange with Plate	\$199.95	<b>KKAC12023</b>
<b>KKDCT20</b> 20" Non-Insulated Duct (Cost per foot)	\$29.95	
<b>KKDCT12</b> 12" Non-Insulated Duct (Cost per foot)	\$11.95	<b>KKPO1223</b>
		<b>KKPO1243</b>

### Split Cooled Unit Accessories

	MSRP	Models
<b>KKSP1</b> 20' Freon Line Set Extension for Split Systems	\$999.95	<b>KKSP1411, KKSP1811, KKSP2411, KKSP2421, KKSP3021</b>
<b>KKSP2</b> 20' Freon Line Set Extension for Split Systems	\$999.95	<b>KKSP4211, KKSP6021 KKSP6043</b>
<b>KKSP3</b> 60' Permanent Freon Line for Split Systems	\$999.95	<b>KKSP1411, KKSP3021</b>
<b>KKSP4</b> 60' Permanent Freon Line for Split Systems	\$999.95	<b>KKSP4221, KKSP6043</b>

### Water Cooled Unit Accessories

	MSRP
<b>KKW12</b> 12' High Pressure Line Set for Water Cooled Units	\$174.95
<b>KKWL25</b> 25' High Pressure Line Set for Water Cooled Units	\$199.95
<b>KKWL50</b> 50' High Pressure Line Set for Water Cooled Units	\$329.95

FOR MORE INFORMATION VISIT  
**WWW.KWIKOOL.COM**



# REFLECTIVE MATERIALS



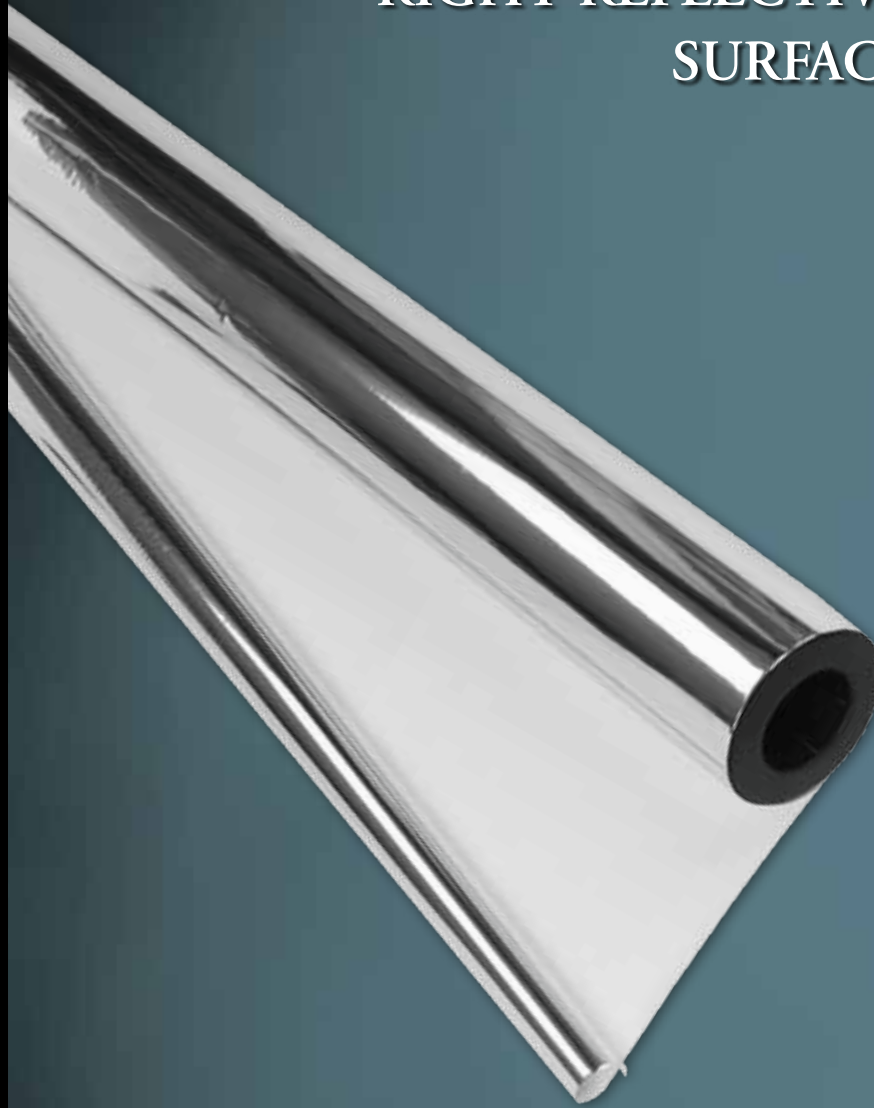




[www.capcontrollers.com](http://www.capcontrollers.com)



## CHOOSE THE RIGHT REFLECTIVE SURFACE



Reflective materials are often divided into two classes: diffuse and specular. Although both classes retransmit light from an incident surface, the difference lies in how the light is redirected. When a ray of light strikes a specular reflective surface, the angle of incidence is equal to the angle of reflection. Light that strikes a diffuse reflective surface is reflected at a random angle relative to the incident angle.

There are pros and cons to each method and it is important to understand the properties of each. If you cultivate crops with a dense canopy and a sparse understory, then specular reflection may be a better choice due to its ability to focus light; therefore more effective at penetrating the dense canopy foliage. Be aware however, focusing or concentrating light produced by H.I.D. bulbs may produce extreme hotspots which can lead to chlorophyll bleaching and thermal stress. If your plants are relatively uniform in their shape and foliage density, then diffuse reflective materials may be better suited to your application. Diffuse reflective materials reduce hotspots, but due to the uniform distribution of light reflected overall intensity is decreased making it difficult to penetrate dense foliage.





**BEST  
PRICE!**  
**BEST FILM  
IN THE  
INDUSTRY!**

## Xtreme Diamond Foil

- Reduces your grow room "hotspots" by spreading your light evenly
- 100% Thermal efficiency containing no metals which is the source of heat conduction
- High performance PET coating to protect from corrosion and wear
- Punched diamond pattern to diffuse light
- 100 foot roll x 4'1" wide

Item	Description	MSRP
RFL-001	Xtreme Diamond Foil, 100'x 4' .....	\$99.95

## Xtreme Super Mylar

- What would be "lost" light, now is utilized for maximum efficiency
- Attach to any surface for ultimate light uniformity
- Get creative: mount to walls, poles, pots, grandma.
- Highly reflective
- Use either side: Silver or White
- Double the thickness of any other type on the market
- 100 foot roll x 4'1" wide

Item	Description	MSRP
RFL-002	Xtreme Super Mylar, 100'x 4' .....	\$99.95

## Xtreme Blackout Canvas

- Completely block out ALL light
- Completely trap ALL light in
- Exact same material used for popular grow tents
- Optimum light return on your plants
- Reusable and the most rugged reflective material on the market
- Get creative: build your own size room
- Staple to 2 x 4's with ease
- Cut holes for ventilation
- Thermal, waterproof, and extremely insulative
- Non-Toxic – will not off-gas or react with light and heat
- 100 foot roll x 4'11" wide

Item	Description	MSRP
RFL-003	Blackout Canvas, 100'x 4'11" .....	\$149.95

# BLOCK-IR

## INFRA-RED BARRIER



*Before*



*After*

A revolutionary product, Block-IR is made from NASA developed Infra-Red blocking technology.

The two outer layers of Block-IR material reduce thermal imaging heat signatures by 97%. Each layer of Block-IR material is bonded to a durable layer of polyurethane for strength. An inner layer of insulation prevents conductive heat flow. An additional layer of polyurethane gives Block-IR high reliability and strength. Completely line any space with Block-IR for a 97% reduction in thermal imaging reduction. Don't be fooled by thin, cheap imitations that don't provide complete protection. This is the real deal. Accept nothing less.

Item	Description	MSRP
BIR-25	4' x 25' Roll .....	\$79.95
BIR-50	4' x 50' Roll .....	139.95
BIR-100	4' x 100' Roll .....	249.95
DUC-24	50 Yd Roll Foil Tape .....	12.95





**HEAVY DUTY 6 MIL**



# GET YOUR



# FACED ON

**C.A.P. 2 FACED BLACK & WHITE POLY**

2 Faced Poly film is not only waterproof but highly reflective and is white on one side & black on the other. The white side is very reflective (over 90%) and can be used on the walls and floor of your growing area to reflect light back to your plants. The black side provides a light-proof layer. Our poly can also be purchased on easy to use rolls with an extra heavy duty 6 mil thickness. The thickest in the industry! Available in 10' x 10' individually packaged sheets or 100' boxed rolls.

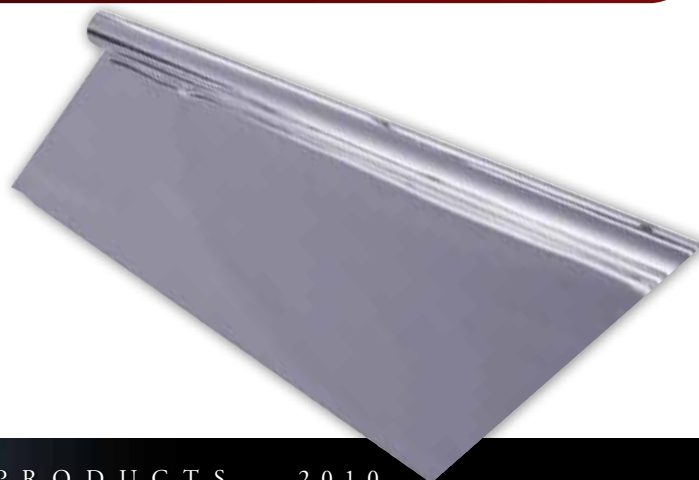


Item	Description	MSRP
BWP-10	10' x 10' Sheet .....	8.95
BWP-100	10' x 100' Roll .....	79.95

## C.A.P. Mylar

Mylar is a metallized plastic sheeting. It will reflect about 98% of the light that hits it. Put it on the walls around your plants to reflect wasted light back to the plants. It comes in three different roll lengths and two different thicknesses, 1 mil and 2 mil. We recommend the 2 mil for better strength and durability. It comes in 50" wide rolls.

Item	Description	MSRP
MY1-25	25' x 50" Roll of 1 Mil Mylar .....	\$17.95
MY2-25	25' x 50" Roll of 2 Mil Mylar .....	23.95
MY1-50	50' x 50" Roll of 1 Mil Mylar .....	27.95
MY2-50	50' x 50" Roll of 2 Mil Mylar .....	42.95
MY1-100	100' x 50" Roll of 1 Mil Mylar .....	52.95
MY2-100	100' x 50" Roll of 2 Mil Mylar .....	79.95



## HydroHuts

The Silver Edition HydroHuts can be used to grow, bloom, clone, or as a plant infirmary or nursery. The choices are all yours, giving you complete control over your greenhouse and its environment. The HydroHuts can be outfitted with T5 fluorescent fixtures, compact fluorescents, or H.I.D. lights. The frames and corners are powder coated steel, not plastic as you see with other tents. There will be no problem hanging whatever you need from inside with our new ceiling structure which also has steel constructed support poles.

**PORTABLE  
INDOOR  
GREENHOUSE!**

Using intake and exhaust blowers, temperature and humidity are easily regulated. CO<sub>2</sub> can be added and fans controlled by using third party atmospheric controls mounted to our Controller Mounting Board which will hang in any brand tent. You can air cool the Hut or your light(s) separately and still have venting ducts to use as you wish. The Silver Edition easily surpasses its rivals through noticeable, intelligent, differences. Better flaps around the door and the windows using Velcro to insure it is light-tight, steel poles and corners for real strength, higher quality outer material that won't rip, more sewing and material in crucial areas to help protect stress points.

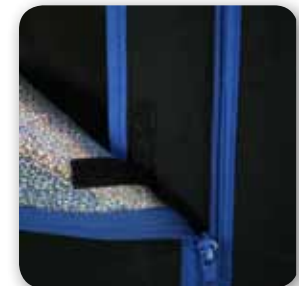
The Silver Edition series offers more vented duct openings & more electrical ports than any grow tent on the market. This design allows you to set up your Hut as you wish by giving you as many options as possible. This flexibility will make your growing experience more successful. All Silver Editions will hold from 4" to 8" insulated duct through any of their duct openings and feature side ducts, rear ducts, roof ducts and electrical ports to run your cords out wherever you desire. Passive air vents can be closed or rolled open as you choose.



Item	Description	MSRP
HHUT-001	Silver Edition Hut 3' x 3' .....	\$249.95
HHUT-002	Silver Edition Hut 2' x 4' .....	239.95
HHUT-003	Silver Edition Hut 4' x 4' .....	347.95
HHUT-004	Silver Edition Hut 4' x 6' .....	487.95
HHUT-005	Silver Edition Hut 4' x 8' .....	657.95
HHUT-006	Silver Edition Hut 5' x 5' .....	478.95
HHUT-007	Silver Edition Hut 10' x 10' <b>NEW SIZE!</b> .....	847.95
HHUT-MBRD	HydroHut Control Mounting Board (2'x 2') .....	29.95



**Powder Coated  
Steel Frames and Corners**



**Light-Tight Velcro**



*Hydrohut*

Dimensions Exterior (in.)	55" x 28" x 78"
Exterior Material (Type and Color)	Black 600D Canvas
Interior Material (Type and Color)	Radiant Blocking Silver
100% Light Proof (y/n)	Yes!
Suggested Light Wattage	400 W HID or T5's
Light Must be Air Cooled (y/n)	No.
Weight (lbs./kg)	37 lbs/ 16.5 kilos
Hanging Straps for Filter/Fan (y/n)	Yes!
Waterproof Removable Floor (y/n)	Yes!
Maximum Ceiling Capacity (lbs.)	135
Passive Vent (Qty)	3
Side Work Window (Qty)	2
Electrical Port (Qty)	4
Light Proof Doors (Front)	1
Light Proof Doors (Back)	0

Silver Edition 2x4	Silver Edition 3x3	Silver Edition 4x4	Silver Edition 5x5	Silver Edition 4x6	Silver Edition 4x8	Silver Edition 10x10
55" x 28" x 78"	40" x 40" x 78"	55" x 55" x 84"	62" x 62" x 84"	78" x 55.5" x 84"	55" x 110" x 84"	126" x 126" x 84"
Black 600D Canvas	Black 600D Canvas	Black 600D Canvas	Black 600D Canvas	Black 600D Canvas	Black 600D Canvas	Black 600D Canvas
Radiant Blocking Silver	Radiant Blocking Silver	Radiant Blocking Silver	Radiant Blocking Silver	Radiant Blocking Silver	Radiant Blocking Silver	Radiant Blocking Silver
Yes!	Yes!	Yes!	Yes!	Yes!	Yes!	Yes!
400 W HID or T5's	400w or 600w	600w or 1000w	600w or 1000w	2x600w or 1000w	2x600w or 2x1000w	4x600w or 4x1000w
No.	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
37 lbs/ 16.5 kilos	38 lbs/ 16.8 kilos	50 lbs/ 22.3 kilos	60 lbs/ 26.8 kilos	68 lbs/ 30.8 kilos	80 lbs/ 36 kilos	ask for details
Yes!	Yes!	Yes!	Yes!	Yes!	Yes!	Yes!
Yes!	Yes!	Yes!	Yes!	Yes!	Yes!	Yes!
135	130	125	120	115	110	110 /each side
3	3	3	3	5	5	6
2	2	2	2	1	1	2 doors
4	4	4	5	5	5	12
1	1	1	1	2	2	1
0	0	0	0	2	2	1



# Grow Room Accessories



## Tarp Zip-Up

Easy peel and stick adhesive zipper system creates an instant door in tarp or poly enclosures. The 6½" foot Tarp Zip-Up opens from either side. Stick it on, cut a slit and you've got an instant door! Great for use with the Black & White Poly.

**Tarp Tab:** Add perimeter grommets for additional tie down points. Applied to both sides of the material for superior adhesion. This peel and stick adhesive tab is made from actual tarp material and is treated with UV resistant glue that will not weaken when exposed to the elements.

**The Hippo Swivel Clip™** is made of a heavy-duty nylon material that resists cracking even at 45° below zero! Not just for fastening tarps - this handy tool is only limited by the imagination.

Item	Description	MSRP
MSC-006	Tarp Zip Up . . . . .	\$10.95
MSC-007	Tarp Tab . . . . .	2.79
MSC-008	Hippo-Swivel (4pk) . . . . .	9.95



## Digital Thermo-Hygrometer

The Digital Thermo-Hygrometer features a jumbo min/max display that reads indoor and outdoor temperatures as well as relative humidity. The probe measures temperatures from -50°C to +70°C or -58°F to +158°F. 1 AAA battery is included.



Item	Description	MSRP
MTR-012	Digital Thermo-Hygrometer . . . . .	\$24.95

## La Crosse Weather One Wireless Station

The Weather One series by La Crosse Technology is a wireless weather station with digital time display. Features include a wireless outdoor humidity and temperature sensor with transmission range up to 330 feet. Can receive up to 3 sensors. Requires 4 AA batteries, not included.



Item	Description	MSRP
MTR-013	Indoor Digital Temperature & Humidity . . . . .	\$27.95

## Quick Tips to Grow Room Success

### 1. Initial Checks

When you walk/look into your grow room, do a quick visual check and make sure that the lights are running, fans are on, and there's no obvious problems: such as, puddles on the floor or mylar hanging off the wall. You should also check that your plants look healthy. For instance, are your plants producing new shoots? Are they a nice color, are they lush and vibrant? Does there appear to be any leaf curl?

### 2. Checking temperature and relative humidity

This is the next thing you should do. Both temperature and relative humidity have a great influence on your plants' overall development. We recommend that you purchase a maximum/minimum thermo-hygrometer, which will allow you to check the maximum and minimum temperature and relative humidity between your grow room visits.

For healthy plant growth, the ideal grow room temperature is between 58-78°F. If your maximum temperature exceeds 85°F, you will need to think about ways to cool your room down. For example, you could upgrade your inline centrifugal fan. It may also be worth investing in an air conditioning unit and/or a humidifier.

Depending on your plants the optimal level of relative humidity is generally between 50-75%. If your minimum humidity is below 45%, you should think about ways of increasing this, for example: by purchasing a humidifier or mist maker.

Running a grow room with a low relative humidity and high temperature is the cause of most problems growers encounter in the summer. Both can cause your plants to become stressed through excess water loss. This, in turn, can initiate over-fertilization through the increased uptake of nutrient solution.





# SYSTEMS & SUPPLIES







## ROOM TO GROW



C.A.P. offers not only a wide range of fully automated systems, but also everything you may need to build your own personalized system from the ground up. Our product offerings range from the most cutting edge technology to some of the most tried and trusted systems available. Whether the beginning consumer is looking for the stability and reliability of a flood table or your more experienced growers desire to step up to an advanced aeroponic set up, we've got what they need. From 1/4" fittings to 4' x 8' trays, from micro spray jets to 1,800 gallon per hour pumps, we've got you covered. We stock Flood and drain systems, deep water culture and aeroponics. Float valves and fittings, neoprene collars and reservoirs, you can find it all here.

With an exciting new addition to the industry leading C.A.P. Ebb & Gro, the Ebb Monster System, the consumers who are limited to smaller numbers of plants now have the option to maximize a plant's growth potential in a 5 gallon Dutch bucket type system. Packaged with six 5 gallon pots, this system is expandable up to 12 sites controlled by a single reservoir.



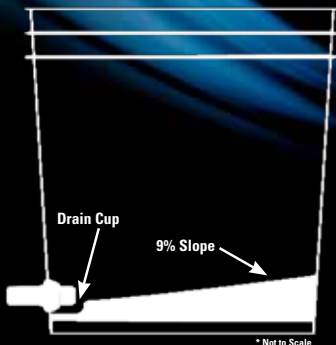
The Ebb & Gro (12 to 48 plants) is the most versatile ebb & flow system on the market. With many growers going from large numbers of small plants to fewer, larger ones, the Ebb & Gro fits the bill! It is a simple system that uses 2 pumps and gravity to flood and drain the planters about 3 or 4 times per day. The fill/drain cycles are controlled by the controller unit (the square black container) to control the feeding schedule that you set with its built-in timer. This system can be set up in many different sizes and shapes to fit your exact growing needs. You can add more grow pots as necessary. It is completely expandable.

The system works by connecting all of the grow pots to the controller unit. All necessary tubing and grow rocks are included with the system. Then you just set the timer to fill and drain the pots about 3 or 4 times a day. When the fill and drain cycle that you set comes on, it turns on the pump in the large reservoir (the 55 gallon black drum), and starts filling the controller unit. Since the grow pots are all plumbed to the controller unit, the water in the entire system starts to level off with the controller unit. When the pots are full, and your drain cycle starts, the pump in the controller unit pumps all of the water back into the reservoir. When the level of the water in the controller unit goes down, all of the grow pot levels go down also. Then the controller unit waits for the next fill and drain cycle a few hours later.

The grow pots are 2 gallons and are filled with Sure to Grow Media or grow rocks. Each grow pot consists of 2 pots nested inside each other. The inner pot has holes in the bottom to allow the water to enter the grow media and the root zone. You can pick up the inner pot and move the plants from one site to another in the system. This will allow for even plant growth; even at the edges of your garden, where the plants don't get as much light! Since your pumps are only pumping a short time each day, the system is extremely reliable. Your plants have 2 gallons of space in which to have root growth, so the size of your plants is not an issue. If they get larger than you anticipated, you can space the grow pots further apart. If you have a small space this system is ideal; as the plants can be placed as close as 10" apart. Versatility is what you get with this system. It comes complete with a B.C Recipe for Success Kit which will make 50 gallons of nutrient. Additional grow pots can be added at a later time. Each 6 pot add-on includes all of the tubing and fittings needed. You need (2 Cases) STG-7 Deluge Inserts or (1) 50 liter bag of Grow Rocks, or you can use (1) 2 cu. ft. bag of STG Hail Cubes for each 6 pot add-on. Controller units are available separately if you wish to make your own system and they include the pumps.

*Completely Expandable!*

**Free**  
with every  
Ebb-12 system



Our new innovative outer bucket design allows for complete drainage of the nutrient solution without any user modification. This translates into healthy plants and less incidence of root borne disease as a result of standing water.

Item	Description	MSRP
<b>EBB-12</b>	12 Grow Pot System w/55 Gallon Reservoir . . . . .	\$574.95
<b>EBB-EXP6</b>	6 Grow Pot Add-On (Expandable up to 48 Sites!) . . . . .	79.95
<b>EBB-CTR</b>	Ebb & Gro Controller Module Only (Build Your Own System!) . . . . .	319.95
<b>DRM-55GL</b>	55 Gallon Reservoir with Undrilled Cover . . . . .	114.95
<b>DRM-55GLD</b>	55 Gallon Reservoir with Drilled Cover . . . . .	119.95
<b>DRM-55L</b>	55 Gallon Reservoir Replacement Lid . . . . .	14.95
<b>DRM-55LD</b>	55 Gallon Reservoir Replacement Lid Drilled . . . . .	14.95
<b>DRM-55LL</b>	55 Gallon Reservoir Replacement Lever Lock . . . . .	16.95
<b>EBB-IBUC</b>	Inner Grow Pot w/Holes Replacement . . . . .	4.95
<b>EBB-OBUC</b>	Outer Grow Pot w/Grommet Hole Replacement . . . . .	4.95
<b>EBB-12AK</b>	Ebb-12 Drip Connector Kit . . . . .	24.95
<b>STG-7</b>	Sure to Grow Deluge Grow Media 8" x 8" Cylinder Insert, Each . . . . .	7.95





## EBB MONSTER SYSTEM

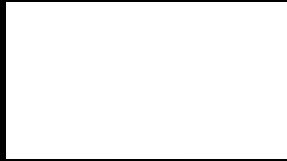
A new addition to the C.A.P. Ebb & Gro line up, the Ebb Monster breaks all the rules and brings a whole new dimension in plant size. The Ebb Monster 6 Pot System comes complete with a 55 Gallon Reservoir and the Ebb Monster Controller Module with 2 pumps to control the fill and drain cycles. This unit efficiently and effectively transfers nutrients to your plants on whatever schedule you set. Also included are 6 Five Gallon Grow Pot sets with all the 3/4" tubing and fittings necessary to ensure Monster plant growth! The entire system is expandable up to 12 sites when purchasing the Ebb Monster 3 Pot Expansions. You can also build your own Monster system with the Monster Ebb Controller Module available separately! All the functionality you have come to trust in a much larger package, with much larger results...

THE NEW EBB  
MONSTER WITH 6  
FIVE GALLON SITES  
**LARGER POTS  
= MONSTER  
YIELDS**

Item	Description	MSRP
<b>EBB-M6</b>	Monster 6 Grow Pot Complete System w/55 Gallon Reservoir . . . . .	\$699.95
<b>EBB-MEXP3</b>	Monster 3 Grow Pot Add-On (Expandable up to 12 Sites!) . . . . .	99.95
<b>EBB-MCTR</b>	Monster Ebb Controller Module Only (Build Your Own System!) . . . . .	349.95
<b>EBB-MIBUC</b>	Monster Inner 5 Gallon Grow Pot w/Bottom Holes Replacement . . . . .	9.95
<b>EBB-MOBUC</b>	Monster Outer 5 Gallon Grow Pot w/Grommet Hole Replacement . . . . .	9.95
<b>DRM-M55GL</b>	Monster 55 Gallon Reservoir with Un-Drilled Lid . . . . .	114.95
<b>DRM-M55GLD</b>	Monster 55 Gallon Reservoir with Drilled Lid . . . . .	119.95
<b>DRM-M55L</b>	Monster 55 Gallon Reservoir Replacement Lid . . . . .	14.95
<b>DRM-M55LD</b>	Monster 55 Gallon Reservoir Replacement Lid Drilled . . . . .	14.95
<b>DRM-55LL</b>	Universal 55 Gallon Reservoir Replacement Lever Lock . . . . .	16.95
<b>EBB-MREK</b>	Monster 55 Gallon Reservoir Expansion Kit with Un-Drilled Lid . . . . .	132.95



# MON







## C.A.P. DWC System

This system consists of The Drip Feed C.A.P. DWC Hydroponic System (24" x 20" x 8½" - 8 plants). It is very affordable and the perfect size to turn any space into a garden. The system features large 3¾" super fine net pots which gives you 25% more room for your roots than a standard 3" net pot.

Item	Description	MSRP
DWC-001	C.A.P. DWC System . . . . .	\$184.95

### Includes:

- 10 Gallon Reservoir
- 8 Plant Reservoir Lid
- Air Pump
- 3¾" Net Pots
- Net Pots
- Grow Rocks



## C.A.P. Dual Pod System

The C.A.P. Dual Pod System measures (24" x 40" x 8½" - 16 plants). Features a two pod design that allows you to space each pod according to your needs. Both pods run off of a single air pump! Just one pump does it all.

Item	Description	MSRP
DWC-002	The C.A.P. Dual Pod System . . . . .	\$329.95

### Includes:

- 12 x 10 Gallon Reservoir
- 2 x 8 Plant Reservoir Lid
- Air Pump
- 3¾" Net Pots
- Grow Rocks
- Water Level Indicator
- Drip Lines
- Air Stones, Fittings & Hose



## C.A.P. Quad Pod System

An affordable and versatile system, The C.A.P. Quad Pod System (48" x 40" x 8½" - 32 plants) features a four pod design which allows you to space each pod to fit your individual needs. This is an affordable Deep Water Culture System with all four pods running off a single 8 outlet pump.

Item	Description	MSRP
DWC-003	The C.A.P. Quad Pod System . . . . .	\$629.95

### Includes:

- 4 x 10 Gallon Reservoir
- 4 x 8 Plant Reservoir Lid
- Air Pump
- 3¾" Net Pots
- Grow Rocks
- Water Level Indicator
- Air Stones, Fittings & Hose



Deep water culture (DWC) is a hydroponic method of plant production by means of suspending the plant roots in a solution of nutrient rich, oxygenated water. These computer designed reservoir & lids are proudly made in the U.S.A. molded to the highest standards from top quality U.V. rated ABS plastic. Every C.A.P. DWC System has a 3 year no hassle warranty on molded systems. Manufacturers warranty vary on components.

## C.A.P. Ebb N Flow System

The C.A.P. Ebb N Flow (24" x 24" x 14½" - 10 plants) features 10 grow pots. The square pots can be placed in the top grow tray in any configuration. You decide how many plants and how they are spaced. Growing big hydroponic tomatoes just became easier than ever. The Ebb N Flow system delivers water, nutrients, and oxygen at set intervals. Simply set the timer for how often and how long you would like to feed the plants. Nutrient rich solution is pumped from the lower reservoir to the top grow tray. Nutrients are absorbed and the excess drains back after the cycle is completed. Gives you total control of plant feeding.

Item	Description	MSRP
DWC-005	The C.A.P. Ebb N Flow System . . . . .	\$269.95

### Includes:

- 10 Gallon Reservoir
- 24" x 20" 7½" Grow Tray
- Air Pump
- Square Pots
- Dual Outlet System Timer
- Grow Rocks
- Drip Lines
- Reservoir Fittings & Hose



## C.A.P. Aeroponic Eight System

The C.A.P. Aeroponic Eight (24" x 24" x 16" - 8 plants) is the perfect size. Now you can turn any space into a garden. This system features large 3¾" super fine net pots. Each 3¾" pot gives you 25% more room for your roots than a standard 3" net pot. Every C.A.P. Aeroponic Eight delivers water, nutrients and oxygen 24 hours a day. Nutrient rich solution is pumped from the bottom reservoir up to the top grow chamber and sprayed directly on the root system. Aeroponic systems deliver higher volumes of solution and oxygen, making them the most productive method.

Item	Description	MSRP
DWC-006	The C.A.P. Aeroponic Eight System . . . . .	\$294.95

### Includes:

- 10 Gallon Reservoir
- 8 Plant Grow Chamber
- Port Hole Cover
- Powerful Submersible Pump
- 3¾" Net Pots
- Grow Rocks
- Sprayer, Reservoir Fittings & Hose



## C.A.P. CyClone

The C.A.P. CyClone (24" x 20" x 8½") is a true 42 site cloner with realistic spacing between each site. The wider spacing allows every site to be used at once. Most plants will root in 5-7 days with a 95%-100% success rate. Every system comes with an air pump. Maximum oxygen levels are achieved. C.A.P. CyClone 42 site cloning lids are interchangeable with all C.A.P. deep water culture systems. Simply purchase the cloning lid separately and switch out the 8 site lid. It's like having 2 systems in one!

Item	Description	MSRP
DWC-007	C.A.P. CyClone 42 Site System . . . . .	\$124.95
DWC-009	C.A.P. CyClone 42 Site Lid . . . . .	44.95
DWC-010	2" Replacement Collars, Sheet of 42. . . . .	9.95

### Includes:

- 10 Gallon Reservoir
- 42 Site Reservoir Lid
- Air Pump
- 2" Neoprene Collars





# Fill and Drain Fittings

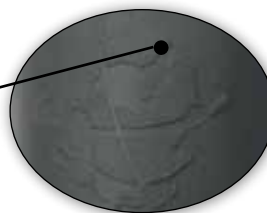
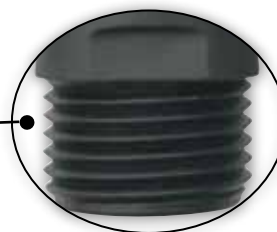
## C.A.P. Overflow and Drain Fittings

Everlastics Fill/Drain & Overflow Fittings are mostly used for ebb & flow and drip systems. In an ebb & flow system, you pump the water from your reservoir up to your flood table. When the water level reaches the top of the overflow fitting it spills back into the reservoir. In a drip system, you would just use a Fill/Drain fitting to drain the water back to your reservoir from the flood table. The fittings accept  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", or 1" tubing. Designed to accept standard garden hose fittings.

By Far, The Best Fittings In The Industry!



1. Made from the highest quality plastic
2. All threads accept standard garden hose fittings
3. Threaded fittings don't come apart under pressure
4. Debris screens easily screw into your extensions
5. Computer designed barbed end ensures a secure fit
6. Overflow extensions allow user to raise or lower water levels
7. Screen and extension fittings are compatible with all C.A.P. Fill/Drain fitting sizes
8. Custom mold features the authentic C.A.P. emblem



Item	Description	MSRP
FIT-001S	$\frac{1}{2}$ " Fill/Drain Fitting, Each . . . . .	\$1.59
FIT-004S	$\frac{3}{4}$ " Fill/Drain Fitting, Each . . . . .	1.69
FIT-007S	1" Fill/Drain Fitting, Each . . . . .	1.89
FIT-010S	Screen Fitting, Each . . . . .	0.45
FIT-013S	Extension Fitting, Each . . . . .	0.50
FIT-016S	Fitting Washer, Each . . . . .	0.29





## TIRED OF THIN SPOTS ON OTHER TABLES?

C.A.P.'s Everlastics Flood Tables feature a superior plastic design with great attention to detail and quality. Our heavy duty white trays weigh 3 lb. (4'x 4') and 7 lb. (4'x 8') more than the competition!

1. No grooves on top of the media holding ribs, allow for much easier cleaning
2. Flat ribs make for a steady water flow
3. Improved sturdier design
4. Stackable! They do not require pry bars to separate!
5. Available in either black or white - They are the same size!
6. Environmentally friendly recycled plastic, yet still provides the ultimate in durability
7. Pure White plastic reflects light back to the plants
8. Pure Black plastic allows for cleaner look, with less algae buildup

3' x 3' & 4' x 4'  
Tables Fit The  
C.A.P. Grandstand

Item	Description	MSRP
FT4X4W	4' x 4' * Flood Table -white .....	\$134.95
FT4X4B	4' x 4' * Flood Table -black .....	119.95
FT4X8W	4' x 8' * Flood Table -white .....	249.95
FT4X8B	4' x 8' * Flood Table -black .....	224.95
FT3X3W	3' x 3' * Flood Table -white .....	114.95
FT3X3B	3' x 3' * Flood Table -black .....	94.95
FT3X6W	3' x 6' * Flood Table -white .....	179.95
FT3X6B	3' x 6' * Flood Table -black .....	157.95

\*TRUE INSIDE DIMENSIONS!





## C.A.P. GrandStands

The GrandStand is a versatile tray stand that is made to accept C.A.P. and popular 2' x 2', 2' x 4', 3' x 3', and 4' x 4' Flood Tables (Not Included). Made from heavy duty powder-coated steel, the GrandStand will last forever. It comes ready-to-assemble. The base model consists of the tray stand alone. Options available include: a reservoir holder, rolling casters, and a light stand. The customer can purchase only the accessories that they need.

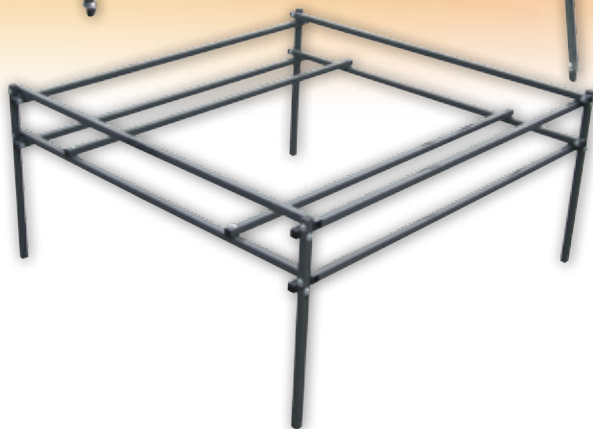


*5 Year  
Warranty!*

**Sturdiest Stands In  
The Industry!!**



**Accepts  
New C.A.P.  
Flood Tables  
See Page 77**



Item	Description	MSRP
STD-001	2' x 2' GrandStand . . . . .	\$149.95
STL-001	2' x 2' Light Stand Kit . . . . .	74.95
STR-001	2' x 2' Reservoir Holder Kit . . . . .	64.95
STD-002	2' x 4' GrandStand . . . . .	149.95
STL-002	2' x 4' Light Stand Kit . . . . .	74.95
STR-002	2' x 4' Reservoir Holder kit . . . . .	64.95
STD-003	3' x 3' GrandStand . . . . .	159.95
STL-003	3' x 3' Light Stand Kit . . . . .	74.95
STR-003	3' x 3' Reservoir Holder Kit . . . . .	69.95
STD-004	4' x 4' GrandStand . . . . .	199.95
STL-004	4' x 4' Light Stand Kit . . . . .	74.95
STR-004	4' x 4' Reservoir Holder Kit . . . . .	79.95
STC-001	2" Caster Kit . . . . .	21.95
STC-002	3" Caster Kit . . . . .	32.95



## Hydrotek Flood Tables

Hydrotek flood tables are made with the finest virgin ABS plastics, sparing no expense to bring you the highest quality and level of durability available with today's technology. The competition uses a much lower quality styrene plastic that does not hold up to consumer expectations. Hydrotek ABS

plastics are extremely durable and hold up to shipping and use in cold weather. Their flood tables are grooved with proper irrigation channels to help keep your plants at their healthiest. The table's black color helps prevent the growth and spread of algae. As shown in the corresponding table, we offer the highest quality plastics to you in a variety of sizes to fit your needs and at a low enough price to fit your pocket book.

Item	Description	MSRP
<b>HFT2X4</b>	Hydrotek 2' x 4' Flood Tables	<b>\$48.95</b>
<b>HFT4X4</b>	Hydrotek 4' x 4' Flood Tables (Truck Ship Only)	<b>78.95</b>
<b>HFT4X6</b>	Hydrotek 4' x 6' Flood Tables (Truck Ship Only)	<b>114.95</b>
<b>HFT4X8</b>	Hydrotek 4' x 8' Flood Tables(Truck Ship Only).	<b>147.95</b>
<b>HFT4X8E</b>	Hydrotek 4' x 8' Econo Table (5"deep) (Truck ship only).	<b>138.95</b>

## Water Reservoirs

Our water reservoirs are molded with superior quality FDA approved UV protected plastic to ensure uniform thickness and strength for maximum durability and longevity. The one piece construction eliminates cracking and splitting common in plastic-welded, two piece construction tanks. Available in 55, 100, 155 and 350 gallon sizes.

**BY FAR, THE BEST RESERVOIRS AVAILABLE!**



**55 Gallon**  
(51"L x 27"W x 13"H)



**100 Gallon**  
(52"L x 30"W x 24"H)



**155 Gallon**  
(52"L x 46"W x 23"H)



**350 Gallon**  
(6'1" Diameter x 25"H)

Item	Description	MSRP
<b>TANK-001</b>	55 Gallon Reservoir (Truck Ship Only)	<b>\$117.95</b>
<b>TANK-002</b>	100 Gallon Reservoir (Truck Ship Only)	<b>149.95</b>
<b>TANK-003</b>	155 Gallon Reservoir (Truck Ship Only)	<b>219.95</b>
<b>TANK-004</b>	350 Gallon Reservoir (Truck Ship Only)	<b>369.95</b>

## Hydrotek Reservoirs

Hydrotek spares no expense when producing their high quality virgin ABS plastic reservoirs; unlike the competition's styrene plastics. The reservoirs come ready with level markers on the internal side, making the measuring of your nutrients much easier to do. These reservoirs are extremely thick and hold up well to cold and shipping. The black plastic helps prevent the growth and spread of algae. As always, Hydrotek offers these to you in a variety of sizes and at a great price.



Item	Description	MSRP
<b>HRES30</b>	Hydrotek 30 Gallon Reservoir	<b>\$62.95</b>
<b>HRES30C</b>	Hydrotek 30 Gallon Reservoir Cover	<b>44.95</b>
<b>HRES70</b>	Hydrotek 70 Gallon Reservoir (Truck Ship Only)	<b>102.95</b>
<b>HRES70C</b>	Hydrotek 70 Gallon Reservoir Cover (Truck Ship Only).	<b>66.95</b>
<b>HRES100</b>	Hydrotek 100 Gallon Reservoir (Truck Ship Only)	<b>147.95</b>
<b>HRES100C</b>	Hydrotek 100 Gallon Reservoir Cover	<b>77.95</b>

## Titanium Nitride Step Drills (Set Of 2)

Titanium Nitride Step Drill Bits, the two cutting head design gives you a smooth cut on plastics. They come 2 in a set. The small bit is great for cutting grommet holes and the large bit is perfect for cutting fill/drain fitting holes in flood trays. The bit automatically de-burrs the holes.



Item	Description	MSRP
<b>MSC-002</b>	Titanium Nitride Step Drills (Set of 2)	<b>\$27.95</b>

## Water Caddies

These unique reservoirs are perfect for indoor gardens that are tight on floor space as well as transporting liquids to your outdoor crops. The half-moon upright 48 gallon tank is only 18" x 12", and is approximately 5 feet tall. The 35 gallon upright tank takes up minimal space compared to the standard flat existing hydroponic reservoirs. The 48 Gallon has 2 shut off valves that allow for use to fill buckets and attach to a standard garden hose!



Item	Description	MSRP
<b>TANK-005</b>	48 Gallon Half Moon Upright Tank	<b>\$144.95</b>
<b>TANK-006</b>	35 Gallon Upright Tank	<b>149.95</b>
<b>TANK-007</b>	48 Gallon Flatbed Tank	<b>134.95</b>





## Xtreme® Water Pumps

C.A.P. Xtreme submersible pumps offer superior quality at an affordable price. Designed to operate reliably in the harsh environment of nutrient salt laden water. These pumps will give you years of hassle free service with little to no maintenance. No matter what your needs, with 11 different sizes to choose from we have the perfect pump for your system. Xtreme Water pump models 75, 120, 160, and 220 come equipped with a ½" outlet. Models 270, 320, 400, 530, 660, 800 and 925 are packaged with both a ½" and ¾" outlet. 2 year warranty.



Model	Voltage	Hz	Max Gal/HR	Max Head
PMP-034	120	60/50Hz	75 GPH	2.1
PMP-035	120	60/50Hz	120 GPH	2.2
PMP-036	120	60/50Hz	160 GPH	2.4
PMP-037	120	60/50Hz	220 GPH	3.3
PMP-038	120	60/50Hz	270 GPH	4.2
PMP-039	120	60/50Hz	320 GPH	4.3
PMP-040	120	60/50Hz	400 GPH	5.0
PMP-041	120	60/50Hz	530 GPH	6.3
PMP-042	120	60/50Hz	660 GPH	7.1
PMP-043	120	60/50Hz	800 GPH	8.0
PMP-044	120	60/50Hz	925 GPH	10.2



Item	Description	MSRP
PMP-034	Xtreme Water Pump, 75 gph . . . . .	\$9.95
PMP-035	Xtreme Water Pump, 120 gph . . . . .	13.95
PMP-036	Xtreme Water Pump, 160 gph . . . . .	15.95
PMP-037	Xtreme Water Pump, 220 gph . . . . .	19.95
PMP-038	Xtreme Water Pump, 270 gph . . . . .	24.95
PMP-039	Xtreme Water Pump, 320 gph . . . . .	26.95
PMP-040	Xtreme Water Pump, 400 gph . . . . .	27.95
PMP-041	Xtreme Water Pump, 530 gph . . . . .	37.95
PMP-042	Xtreme Water Pump, 660 gph . . . . .	46.95
PMP-043	Xtreme Water Pump, 800 gph . . . . .	51.95
PMP-044	Xtreme Water Pump, 925 gph . . . . .	63.95

Replacement Impellers available.

## C.A.P. Ebb and Gro Pump

C.A.P. submersible pumps are very energy efficient and provide high flow rates with high pressure. They come with a ½" output and will move up to 340 gallons per hour. One year warranty.



Item	Description	MSRP
PMP-018	C.A.P. Pump 340 gph . . . . .	\$17.95

## Mondi Utility & Sump Pump

The Mondi Utility and Sump Pump is a heavy-duty, oilless (water cooled) multi-purpose pump for any home or commercial application where you need water control: basement/indoor flooding, plant watering, water recirculation and more! The durable casing stands up to tough conditions, while the sturdy HP motor pumps up to 1585 gallons per hour, thus making this pump a strong, long-lasting and economical choice. Also features a 25' grounded cord. Use the multi-sized hose fitting for industrial hoses and the garden hose fitting for home use. The Mondi Utility and Sump Pump is protected by a 2-year gold series warranty.



Item	Description	MSRP
MDPUMP	Utility & Sump Pump . . . . .	\$117.95

## Rio Pumps

Rio high performance submersible pumps are very energy efficient and provide high flow rates with high pressure. They come in 3 different models. The Rio 600 has a ½" output and will move up to 200 gallons per hour. The Rio 2100 has ¾" and 1" outputs and will move up to 692 gallons per hour. The Rio 2500 has ¾" and 1" outputs and will move up to 748 gallons per hour. 6 month warranty.

Item	Description	MSRP
PMP-004	600 Sub.Pump 200gph . . . . .	\$26.95
PMP-005	2100 Sub.Pump 692gph . . . . .	64.95
PMP-006	2500 Sub.Pump 748gph . . . . .	82.95



## Million Air Pumps

The Million Air Pumps are very quiet. The single air outlet puts out a maximum of 50 gallons of air per hour. The dual air outlet puts out 100 gallons of air per hour. They both have an adjustable air output. Comes with a one year warranty. May look different than shown.



Item	Description	MSRP
PMP-007	Single Outlet 1666 cc/m	\$10.95
PMP-008	Dual Outlet 2000 cc/m.	12.95

## Via Aqua Pumps

Via Aqua submersible pumps are good quality at a very good price. They are very durable and will pump in less than 1/2" of water, making them ideal for hydroponic use. We sell 3 different models. The Via Aqua 302 has a 1/2" output and will move up to 130 gallons per hour. The Via Aqua 305 has a 3/4" output and will move up to 315 gallons per hour. The Via Aqua 306 has a 3/4" output and will move up to 526 gallons per hour. 6 month warranty.



Item	Description	MSRP
PMP-001	302 Submersible Pump 130 gph	\$12.49
PMP-002	305 Submersible Pump 315 gph	22.95
PMP-003	306 Submersible Pump 526 gph	37.95

## Mag Drive Water Pumps

The Mag Drive Pump's exclusive fine mesh foam filter will give your hydroponic system reliable clog-free performance. All models feature powerful, efficient mag-drive construction. Guaranteed for one full year against defects in workmanship or materials.



Item	Description	MSRP
PMP-009	Mag Drive, 250 gph, 1/2"	\$69.95
PMP-010	Mag Drive, 350 gph, 1/2"	82.95
PMP-011	Mag Drive, 500 gph, 1/2"	94.95
PMP-012	Mag Drive, 700 gph, 1/2"	109.95
PMP-013	Mag Drive, 950 gph, 3/4"	129.95
PMP-014	Mag Drive, 1,200 gph, 3/4"	184.95
PMP-015	Mag Drive, 1,800 gph, 3/4"	209.95
PMP-016	Mag Drive, 1.5, 140 gph, 1/2"	37.95
PMP-017	Mag Drive, 1.9, 190 gph, 1/2"	46.95

Replacement Parts		MSRP
PMP-FIL1	Pre-Filter for 250 gph - 700 gph	\$7.95
PMP-FIL2	Pre-Filter for 950 gph - 1,800 gph.	9.95
PMP-IMP15	Impeller/Mag Drive 140 gph.	11.95
PMP-IMP19	Impeller/Mag Drive 190 gph	13.49
PMP-IMP2	Impeller/Mag Drive 250 gph.	11.95
PMP-IMP3	Impeller/Mag Drive 350 gph	17.95
PMP-IMP7	Impeller/Mag Drive 700 gph.	22.95
PMP-IMP9	Impeller/Mag Drive 950 gph	22.95
PMP-IMP12	Impeller/Mag Drive 1200 gph	26.95
PMP-IMP18	Impeller/Mag Drive 1800 gph	42.95
MFIT-001	1/2" FITP x 1/2" Barbed Fitting -250-700gph.	9.49
MFIT-002	1/2" FITP x 3/4" Barbed Fitting -250-700gph.	9.49
MFIT-003	3/4" FITP x 3/4" Barbed Fitting -950 -1,800gph.	9.49



# Tubing and Fittings

## Stainless Steel Reservoir Heaters

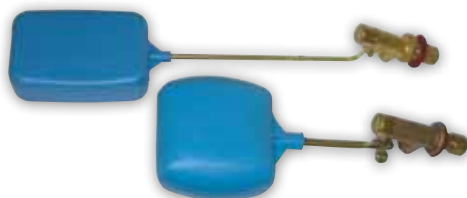
These reservoir heaters can be set for a temperature range between 68° and 93° F. Features calibrated temperature control dial, on/off indicator light and two suction cup mounts. Comes in 200 watt and 300 watt.



Item	Description	MSRP
HTR-200	200w Reservoir Heater	\$29.95
HTR-300	300w Reservoir Heater	30.95

## 1/4" Float Valves

These float valves are made to connect to 1/4" tubing and are perfect for hooking up to Reverse Osmosis Systems to control water production. Available with either a long or short stem. These brass fittings will last for years.



Item	Description	MSRP
FLT-001	Float Valve w/Long Stem	\$8.95
FLT-002	Float Valve w/Short Stem	13.95

## 1/2" Float Valves

An essential part for do-it-yourself hydroponic systems and maintaining reservoir levels. It has a 1/2" brass barbed fitting to attach to standard 1/2" tubing.



Item	Description	MSRP
FLT-003	Float Valve, w/Long Stem (Heavy Duty)	\$14.95

## Hole Punches

Designed for comfortable use. Punches holes in 1/2" Poly Tubing to insert 1/4" connectors or drippers. Two punches are available, a manual punch and a professional punch. If you are punching many holes, you will want to consider the professional punch, as it makes punching holes in Poly Tubing quick and easy.

Item	Description	MSRP
DRP-004	Manual Hole Punch	\$3.79
DRP-005	Professional Hole Punch	10.95



## 1/4" Vinyl Micro Tubing

1/4" Vinyl Micro Tubing is used to go from 1/2" Poly line to the drippers or drip stakes that will water your plants. It comes in 50' and 100' lengths. Simply attach the 1/2" Poly line with 1/4" connectors for a leakproof fit.



Item	Description	MSRP
DRP-001	1/4" Tubing, 50' Roll	\$7.49
DRP-002	1/4" Tubing, 100' Roll	13.49

## 1/2" Poly Tubing

When making a Drip System, poly tubing is used as the main drip line. You punch holes into it using a hole punch, and then insert 1/4" connectors to attach to 1/4" vinyl tubing which is attached to your drippers or drip stakes. The end is sealed using a Poly End Plug. Perfect for big outdoor gardens.



Item	Description	MSRP
DRP-003	1/2" Tubing, 100' Roll	\$23.95

## 1/2" & 3/4" Tubing, Blue & Black

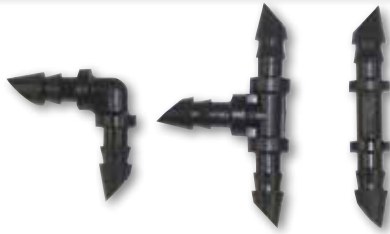
1/2" Tubing is the standard tubing used to connect to pumps, 1/2" connectors, etc. It is flexible and does not kink easily. The 3/4" tubing is used to connect to 3/4" pump outlets. Available in translucent blue and solid black. Solid black prevents algae growth. The blue color allows you to see the flow of solution, yet algae growth is reduced. It is available in rolls of 100'.



Item	Description	MSRP
TUB-001	1/2" Blue Tubing, 100' Roll	\$29.95
TUB-002	1/2" Black Tubing, 100' Roll	27.95
TUB-005	3/4" Blue Tubing, 100' Roll	82.95
TUB-006	3/4" Black Tubing, 100' Roll	79.95

## 1/4" Barbed Fittings

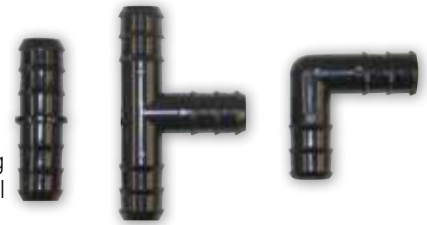
A barbed connector is used for attaching 1/4" Vinyl tubing to mainline (1/2" Poly) tubing or for joining two pieces of micro-tubing together. Use Elbows where right angles are needed to get in and out of containers. You can use these as the end of the line to drip into plants directly when attached to a Drip Stake. Tee's are used for remote branching of vinyl tubing. It is easier to run a single 1/4" tubing feeder line to a group of remote plants and then use 1/4" tees to supply multiple emitters.



Item	Description	MSRP
DRP-006S	1/4" Tees, Each. . . . .	\$0.25
DRP-008S	1/4" Barbed Straight Connectors, Each . . . . .	0.20
DRP-010S	1/4" 90° Elbows, Each . . . . .	0.25

## 1/2" Barbed Fittings

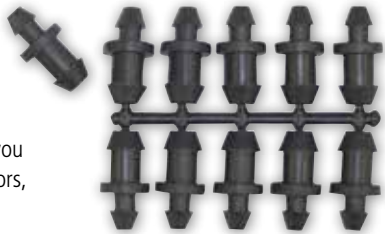
A barbed connector is used for attaching 2 lengths of tubing together. Use Elbows where right angles are needed to get around corners. Tees are used for branching of tubing. Shut-Off Valves are useful for many things. Click Clamps will hold tubing on pumps and barbed fittings, preventing the tubing from loosening over time.



Item	Description	MSRP
DRP-023S	1/2" Connectors, Each . . . . .	\$0.40
DRP-025S	1/2" Elbows, Each . . . . .	0.45
DRP-027S	1/2" Tees, Each . . . . .	0.45

## Hole Plugs

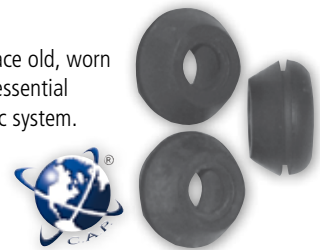
Hole Plugs are used when you need to plug holes in your 1/2" Poly Tubing. They snap into the tubing, preventing water from coming out of the punched hole. If you remove 1/4" drippers or 1/4" connectors, these will completely seal the hole.



Item	Description	MSRP
DRP-020S	1/4" Double Sided Hole Plugs, Each . . . . .	\$0.10

## C.A.P. 1/2" Grommets

These Grommets by C.A.P. can be used to replace old, worn grommets in your hydroponic systems and are essential components when making your own hydroponic system. They will fit the 1/2" barbed fittings and 13/16" to 7/8" hole size for a snug fit.



Item	Description	MSRP
GROM-25	1/2" Grommets, 25/pk . . . . .	\$9.95

## C.A.P. & Blackstar Neoprene Collars

C.A.P. DWC Collars are designed specifically for use with C.A.P. DWC Cyclone Systems. C.A.P. collars are Made in the USA, are economically priced and come conveniently in sheets of 42.

Blackstar collars use a superior grade material and an innovative design to stand out above the competition. The unique 8 spoke design allows for larger stemmed cuttings without gaping and they offer a more secure hold while being more gentle on softer cuttings. The higher grade neoprene gives these collars a longer life.



Item	Description	MSRP
MSC-004S	Blackstar 2" Collars, Each . . . . .	\$0.50
DWC-010	C.A.P. DWC 2" Collars, Sheet of 42 . . . . .	9.95

## Poly End Plug

These End Plugs are used at the end of your 1/2" Poly Tubing to close it off to create pressure for your drippers, etc. The cap is removable and has a 3/4" hose fitting on the end to connect to a hose for easy drip line flushing and cleaning.



Item	Description	MSRP
DRP-022S	1/2" End Plugs, Each . . . . .	\$1.95

## In-Line Water Filter

These filters are made to filter out sediment and non-soluble particles from your nutrients. This will help prevent clogged drippers and lines. It has a replaceable filter element. 3/4" threads.



Item	Description	MSRP
IWF-001	Inline Water Filter. . . . .	\$15.49
IWF-REPF	Replacement Filter . . . . .	4.49

## 1/4" Tubing Support Stakes

4" Tubing Support Stakes hold 1/4" tubing in place next to plants. Works great in rockwool or soil.



Item	Description	MSRP
DRP-012S	4" Tubing Support Stakes, Each. . . . .	\$0.17



# Drain Equipment

## 2 Gallon Everlastics DuraPot

The 2 Gallon DuraPot is durable and flexible. Designed for use with large plants, for hydro and soil growers alike. They are 8½" x 8½" x 7½" to fit perfectly in most any tray.



## C.A.P. Auto Drain Controller

The ADC-1, Auto-Drain Controller, allows you to put in a wastewater drain anywhere that you would like. It consists of a controller bucket with a float switch. When the float switch detects the presence of water, it turns on the pump (not included) to pump out your water to a waste drain of your choice, even higher than the controller. You could have your run-to-waste tables drain into an ADC-1 for automated removal of waste water. It will run most any pump that can fit inside the controller. The ADC-1 has ½" inputs and outputs, but can easily be modified to accommodate any appropriate pump. 5 year no hassle warranty.



Item	Description	MSRP
BUCDP-2	2 Gallon Everlastics DuraPot. ....	\$3.95

Item	Description	MSRP
ADC-1	Auto Drain Controller. ....	\$159.95

## 3½ Gallon EZ Store Buckets

Our 3½ gallon buckets are perfect for many gardening uses. They are available in black or white.



## 2, 3½ & 5 Gallon Buckets

Our standard 2, 3½ and 5 gallon buckets have many different uses. You can use them to make an inexpensive water culture system. You can also use them for mixing and storing nutrient solution. An easy on and off lid is also available for 3½ and 5 gallon sizes.



Item	Description	MSRP
ZBUCEZ-3.5GLW	3½ Gallon White Bucket . . . . .	\$7.95
ZBUCEZ-3.5GL	3½ Gallon Black Bucket . . . . .	7.95
ZCOV-3.5GLW	3½ Gallon White Cover . . . . .	3.79
ZCOV-3.5GL	3½ Gallon Black Cover. . . . .	3.79

Item	Description	MSRP
BUC-2	2 Gallon Black Bucket, w/Handle . . . . .	\$2.95
BUC-3.5	3½ Gallon Black Bucket, w/Handle . . . . .	5.49
BUC-5	5 Gallon Black Bucket, w/Handle . . . . .	6.95
LID-001	Lid for Buckets (fits 3½ and 5 gallon). . . . .	2.49

## Aeronic Spinners

Our Aeronic Spinner/Sprinklers are great for building your own aeronic or cloning systems. These jets deliver a 360° water spray using just pump pressure. They can be screwed into PVC piping or Poly tubing.



## Micro Spray Jets

Our Micro Spray Jets are great for building your own aeronic or cloning systems. These jets deliver a 360° water spray using just pump pressure. They can be screwed into PVC piping or Poly tubing.



Item	Description	MSRP
DRP-018S	Spinners, Each . . . . .	\$1.49

Item	Description	MSRP
DRP-014S	Micro Spray Jets, Each . . . . .	\$0.08

## Button Drippers

Button Drippers are used when you need to drip water off of a ¼" vinyl tube, but not at the end of the tube. They are placed in-line with each other so that you do not need a separate ¼" vinyl tube for each plant. Standard drippers are used at the end of the line. Both maintain the same flow rates at different water pressures.



## No Clog Drip Stakes

These No Clog Drip Stakes are for use with hydroponic drip-watering systems. These drip stakes are designed with a protective basket to prevent buildup and clogs. They are 4" tall and stick perfectly into rockwool cubes or grow rocks for intermittent or constant watering. They are not pressure compensating, so they will not clog. They fit on ¼" tubing.



Item	Description	MSRP
DRP-016S	¼" Standard Drippers, 2 gph. . . . .	\$0.59
DRP-035S	¼" Inline Drippers, 1 gph. . . . .	0.59

Item	Description	MSRP
DRP-038	No Clog Drip Stake, Each . . . . .	\$0.35

## C.A.P. Everlastics Net Pots & Lids

Net Pots allow the roots to grow through the mesh for maximum aeration and promote even drainage. You can use them with Sure to Grow, grow rocks or rockwool grow cubes. They come in five different sizes, 2", 3", 3¾", 5" and 6". Net Pot Lids are available.



Item	Description	MSRP
NP2	2" Net Pots . . . . .	\$0.25
NPL2	2" Lid . . . . .	0.30
NP3	3" Net Pots . . . . .	0.35
NPL3	3" Lid . . . . .	0.40
NP375	3¾" Net Pots . . . . .	0.45
NPL375	3¾" Lid . . . . .	0.60
NP5	5" Net Pots . . . . .	0.85
NPL5	5" Lid . . . . .	0.85
NP6	6" Net Pots . . . . .	0.95
NPL6	6" Lid . . . . .	0.95

## C.A.P. Gro Pots™

C.A.P. Gro Pots provide excellent root zone aeration and drainage. They are available in 14 different sizes. Unlike plastic, C.A.P. Gro Pots are made from fabric material which causes less heat build up and are recyclable. Individually wrapped.



**ALL SIZES FEATURE A UNIQUE HANDLE DESIGN FOR CONVENIENCE!!**

Item	Description	MSRP
GP1GA	1 Gallon Gro Pot . . . . .	\$2.09
GP2GA	2 Gallon Gro Pot . . . . .	2.49
GP3GA	3 Gallon Gro Pot . . . . .	2.95
GP5GA	5 Gallon Gro Pot . . . . .	4.49
GP10GA	10 Gallon Gro Pot . . . . .	5.95
GP15GA	15 Gallon Gro Pot . . . . .	6.95
GP20GA	20 Gallon Gro Pot . . . . .	8.95
GP25GA	25 Gallon Gro Pot . . . . .	11.95
GP30GA	30 Gallon Gro Pot . . . . .	13.95
GP45GA	45 Gallon Gro Pot . . . . .	15.95
GP65GA	65 Gallon Gro Pot . . . . .	23.95
GP100GA	100 Gallon Gro Pot . . . . .	28.95
GP200GA	200 Gallon Gro Pot . . . . .	42.95
GP300GA	300 Gallon Gro Pot . . . . .	52.95

## SOLD IN CONVENIENT PACKAGE QUANTITIES



## C.A.P. Gro Bags

These reusable plastic Gro Bags can take the place of regular more expensive pots when short term growing is anticipated. They are made from 6 mil heavy plastic, treated to resist UV rays, and small holes have been punched for drainage. They are available in ½, 1, 2, 3, 5, 7, and 10 gallon sizes.



Gro Bags - Packs	MSRP
GBG-001 ½ Gallon Gro Bag (10 pk) . . . . .	\$0.79
GBG-002 1 Gallon Gro Bag (10 pk) . . . . .	1.39
GBG-003 2 Gallon Gro Bag (10 pk) . . . . .	1.79
GBG-004 3 Gallon Gro Bag (10 pk) . . . . .	2.49
GBG-005 5 Gallon Gro Bag (10 pk) . . . . .	4.29
GBG-006 7 Gallon Gro Bag (5 pk) . . . . .	2.09
GBG-007 10 Gallon Gro Bag (5 pk) . . . . .	3.39

Gro Bags - Cases	MSRP
GBG-001C ½ Gallon Gro Bag (10 packs of 10) . . . . .	\$7.25
GBG-002C 1 Gallon Gro Bag (10 packs of 10) . . . . .	12.95
GBG-003C 2 Gallon Gro Bag (5 packs of 10) . . . . .	7.95
GBG-004C 3 Gallon Gro Bag (5 packs of 10) . . . . .	9.49
GBG-005C 5 Gallon Gro Bag (5 packs of 10) . . . . .	19.95
GBG-006C 7 Gallon Gro Bag (10 packs of 5) . . . . .	9.95
GBG-007C 10 Gallon Gro Bag (5 packs of 5) . . . . .	15.95

Gro Bags - Bulk Case	MSRP
GBG-001BC ½ Gallon Gro Bag (Case of 1000) . . . . .	\$94.95
GBG-002BC 1 Gallon Gro Bag (Case of 1000) . . . . .	189.95
GBG-003BC 2 Gallon Gro Bag (Case of 500) . . . . .	119.95
GBG-004BC 3 Gallon Gro Bag (Case of 500) . . . . .	139.95
GBG-005BC 5 Gallon Gro Bag (Case of 400) . . . . .	189.95
GBG-006BC 7 Gallon Gro Bag (Case of 200) . . . . .	122.95
GBG-007BC 10 Gallon Gro Bag (Case of 200) . . . . .	199.95



# Made To Last!

Quality • Durability • Superior Design



C.A.P.'s Everlastics products feature a superior plastic design with great attention to detail and quality. Made of 80% recycled plastic. Everlastics are made to LAST!

Fill / Drain Fittings



Flood Tables



Net Pots/Lids



DuraPots





# VENTILATION







## ABOUT VENTILATION

A multitude of variables must be taken into consideration when choosing the correct air exchange device to exhaust the air within your grow space. This includes room volume, quantity of H.I.D. light present (air-cooled or open), quantity and size of the carbon filters used, shape of flow path and ambient regional temperatures. A base level air exchange value can be obtained by first determining your room volume by multiplying the length by the height and finally by the width. This value indicates the total volume of your grow space. Your ventilation should be able to exchange this volume in 3 minutes or less as a minimum requirement. Most fans are rated in Cubic Feet Per Minute and is commonly abbreviated C.F.M. Take the cumulative C.F.M. value for all of your fans and multiply by 3. Is this number more or less than your room volume? If the value is less than your base line level you may need to add more fans to adequately ventilate your space.

Other factors to consider when determining ventilation demand are as follows:

- Add 5% to your original C.F.M. calculation value for every Air-Cooled H.I.D. and 20% for every uncooled H.I.D.
- Add 25% for the addition of carbon filters
- Add 25% for hot, arid climates and as much as 40% for hot, humid climates



# BIG WIND... SMALL PRICE

## VALULINE™ CENTRIFUGAL FANS

C.A.P. ValuLine™ centrifugal fans are the perfect answer for circulation of fresh air in indoor gardens and hydroponic systems. You can provide the best of lighting, growing systems, and nutrients to indoor plants but might still have to wonder why the plants are not thriving...you have simply missed out on good ventilation that is irreplaceable.

In fact, the secret of success of indoor gardening lies in making clean fresh air available to indoor plants. Plants in the open have air in abundance and the accurate balance of carbon dioxide to meet their food synthesizing

requirements. Rain and wind takes care of removing dust and pollutants from their surface, which is also important for maximum growth. Indoor plants, however, have to be provided these conditions.



ValuLine™ centrifugal fans stand a class apart in reliability and technology. They have a fan wheel composed of a number of blades mounted around a hub, which turns on a shaft that passes through the fan housing. Air is rotated 90° and accelerates due to centrifugal force as it flows over the fan blades and exits the fan housing.

*5 Year  
Warranty!*



*Comes with 120v Power Cord Attached  
Mounting Brackets and Hardware Also Included!*

Item	Description	MSRP
VLF-4	ValuLine 4" Fan 171 C.F.M. 1 amp . . . . .	\$104.95
VLF-6	ValuLine 6" Fan 435 C.F.M. 1 amp . . . . .	129.95
VLF-8	ValuLine 8" Fan 745 C.F.M. 1.7 amps . . . . .	169.95
VLF-10	ValuLine 10" Fan 780 C.F.M. 2.1 amps . . . . .	219.95
VLF-12	ValuLine 12" Fan 1060 C.F.M. 3.1 amps . . . . .	259.95



### C.A.P. Fan Speed Control

Our Adjustable Fan Speed Controller allows you the ability to vary the speed of your inline duct fan. You can "dial in" the appropriate setting for your ventilation needs. Ideal for use with C.A.P. ValuLine™ centrifugal fans and most other brands. Plug and Play and rated for 15 amps at 120 volt, with fuse protection. It comes with a 3 year no hassle warranty.



Item	Description	MSRP
FAN-CTR	C.A.P. Fan Speed Control . . . . .	\$21.95

## Can-Fans®

Extremely efficient, Can-Fans® come in a heavy duty metal, powder-coated housing, and attached grounded power cord. Rated for continuous operation, these popular in-line fans can be used in commercial or residential applications. Fan sizes correspond to the diameter of the duct that will be needed. May be paired with Can-Filters to give true C.F.M. High Output models are available. Compact, quiet, easy installation, certified to CSA, UL standards, and a 5 year warranty.



Item	Description		MSRP
CFN4	Can-Fan 4" Fan	142 C.F.M. 1 amp	\$174.95
CFN4H	Can-Fan 4" High Output Fan	178 C.F.M. 1 amp	185.95
CFN6	Can-Fan 6" Fan	270 C.F.M. 1 amp	198.95
CFN6H	Can-Fan 6" High Output Fan	440 C.F.M. 1.2 amps	225.95
CFN8	Can-Fan 8" Fan	493 C.F.M. 1.2 amps	263.95
CFN8H	Can-Fan 8" High Output Fan	737 C.F.M. 1.2 amps	283.95
CFN10H	Can-Fan 10" High Output Fan	781 C.F.M. 2.4 amps	305.95
CFN12H	Can-Fan 12" High Output Fan	971 C.F.M. 3.1 amps	432.95

## Can-Fan Max-Fans™

The Can-Fan Max-Fans™ bring centrifugal fans to a new level. More powerful and efficient than standard centrifugal fans, the Max-Fan has the power to move a lot of air efficiently. Comes with an attached 8' power cord and a 5 year warranty.



Item	Description	MSRP
CFM8	Max-Fan 8" 675 C.F.M.	\$285.95
CFM10	Max-Fan 10" 1023 C.F.M.	432.95
CFM12	Max-Fan 12" 1709 C.F.M.	525.95
CFM14	Max-Fan 14" 1823 C.F.M.	763.95

## Can-Fan Backdraft Dampers

The CF Backdraft Damper attaches to inline ventilation systems to keep exhausted air out for good. When used in conjunction with a Can Fan and filter, the Backdraft Damper also helps control odors as it prevents any untreated air from escaping the enclosed area.



Item	Description	MSRP
CFBD4	Can Backdraft Damper 4"	\$23.95
CFBD6	Can Backdraft Damper 6"	27.95
CFBD8	Can Backdraft Damper 8"	36.95
CFBD10	Can Backdraft Damper 10"	45.95
CFBD12	Can Backdraft Damper 12"	59.95
CFBD14	Can Backdraft Damper 14"	87.95

## Can-Combos

Can Combos include: filter, pre-filter, Standard Fan, High Output Fan or Max-Fan. CF75MC and CF100MC come complete with flange.



Item	Description	MSRP
CF33C	Can 33 Combo w/6" Standard Fan	\$341.95
CF66C	Can 66 Combo w/8" Standard Fan	441.95
CF100C	Can 100 Combo w/8" High Output Fan	554.95
CF150C	Can 150 Combo w/12" High Output Fan	787.95
CF50C	Can 50 Combo w/6" High Output Fan	447.95
CF75C	Can 75 Combo w/8" High Output Fan	550.95
CF75MC	Can 75 Combo w/8" Max Fan	500.95
CF100MC	Can 100 Combo w/10" Max Fan	664.95





## Can-Filters® Carbon Filters

The original carbon air filter! Can-Filters has been manufacturing carbon air filters for the last 15 years. With time comes experience and professionalism. This has enabled them to manufacture a high quality, no maintenance, carbon air filter with a tested and true 99.5% odor removing capability and a suggested life span of 12-18 months. Can-Filters use a custom specified virgin activated coal based carbon, (CKV4) to ensure the longest possible life in most applications. Whether for commercial, industrial, or residential use you can be sure that the proper carbon type, carbon weight, and bed width has been chosen to provide excellent air purification.

Item	Description	MSRP
CF2600	Can Filter 2600 w/Pre-Filter w/o Flange (Fits 4" Flange) . . . . .	\$56.95
CF9000	Can Filter 9000 w/Pre-Filter w/o Flange (Fits 4" Flange) . . . . .	69.95
CF33	Can Filter 33 w/o Flange (Fits 6" & 8" Flange) . . . . .	123.95
CF50	Can Filter 50 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	205.95
CF66	Can Filter 66 w/o Flange (Fits 6" & 8" Flange) . . . . .	192.95
CF75	Can Filter 75 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	247.95
CF99	Can Filter 99 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	276.95
CFL100	Can Filter Lite 100 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	274.95
CF100	Can Filter 100 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	281.95
CF125	Can Filter 125 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	325.95
CF150	Can Filter 150 w/o Flange (Fits 8", 10", & 12" Flange) . . . . .	365.95
CF2500	Can Filter Max 2500 (Fits 14" Flange) . . . . .	399.95



Item	Description	MSRP
CFLNG4	Can Filter 4" Flange . . . . .	\$13.95
CFLNG6	Can Filter 6" Flange . . . . .	13.95
CFLNG8	Can Filter 8" Flange . . . . .	14.95
CFLNG10	Can Filter 10" Flange . . . . .	15.95
CFLNG12	Can Filter 12" Flange . . . . .	20.95
CFLNG14	Can Filter 14" Flange . . . . .	28.95
CF33PF	Can Filter 33 Pre-Filter . . . . .	5.95
CF50PF	Can Filter 50 Pre-Filter . . . . .	10.95
CF66PF	Can Filter 66 Pre-Filter . . . . .	10.95
CF75PF	Can Filter 75 Pre-Filter . . . . .	12.95
CF100PF	Can Filter 100 Pre-Filter . . . . .	14.95
CF125PF	Can Filter 125 Pre-Filter . . . . .	20.95
CF150PF	Can Filter 150 Pre-Filter . . . . .	22.95

## Can-Filters® 38 Special™

These new, lighter carbon filters are perfect for the customer who wants the strength of a Can-Filter without the weight. The 38 special is built with the same quality materials and the same proven packed bed carbon design as the original Can Filter. The 38 Special uses approximately 20% less carbon than the original Can-Filter. Because it is lightweight the filter is easier to handle. More air flows through the thinner bed walls.

Item	Description	MSRP
CF3833	Can 38-Special 33 w/o Flange . . . . .	\$114.95
CF3850	Can 38-Special 50 w/o Flange . . . . .	170.95
CF3875	Can 38-Special 75 w/o Flange . . . . .	203.95
CF38100	Can 38-Special 100 w/o Flange . . . . .	223.95
CF38125	Can 38-Special 125 w/o Flange . . . . .	267.95
CF38150	Can 38-Special 150 w/o Flange . . . . .	312.95
CF3850PF	Can 38 Special 50 Pre-Filter . . . . .	11.95
CF3875PF	Can 38 Special 75 Pre-Filter . . . . .	12.95
CF38100PF	Can 38 Special 100 Pre-Filter . . . . .	14.95
CF38125PF	Can 38 Special 125 Pre-Filter . . . . .	20.95
CF38150PF	Can 38 Special 150 Pre-Filter . . . . .	22.95



# Air Purification

## 4" & 6" Carbon Filters

The 4" and 6" filters are made from 100% virgin charcoal at the highest quality standards. They will filter efficiently for 6-8 months before needing to be washed out and reused (1 time). The input side of the fan should be attached to the built-in flange using tape to seal. Alternatively, you can create a small duct joining the filter to the fan. These filters are small, easy to hang, and great for grow tents.

Item	Description	MSRP
FIL4	Elf 4" Carbon Filter . . . . .	\$49.95
FIL6	Goblin 6" Carbon Filter . . . . .	97.95



## Deau Passe Products

A DIVISION OF INTERNATIONAL GROWER'S SUPPLY, INC.

### Organic Air Charcoal Fiber Filter

The "Freshmaker" filter line will enable single pass filtration of strong odors at very high C.F.M.'s. They consist of three layers of highly active charcoal fiber with millions and millions of active micro pores that attract and capture odors. The filter is easily washed to keep the micro pores clean and ready to absorb more odors. They can be used with fans from 0-5000 C.F.M. The highest rated filters with the largest surface area on the market, and at less than 1/2 the size of old traditional filters!



Item	Description	MSRP
OAF-4	Fiber Filter 4" Max C.F.M. 516 . . . . .	\$88.95
OAF-6	Fiber Filter 6" Max C.F.M. 942. . . . .	125.95
OAF-8	Fiber Filter 8" Max C.F.M. 2000 . . . . .	189.95
OAF-10	Fiber Filter 10" Max C.F.M. 4000. . . . .	259.95
OAF-12	Fiber Filter 12" Max C.F.M. 6000. . . . .	319.95

Item	Description	MSRP
OAR-RK	Organic Air Reducer Ring Kit . . . . .	\$12.95

### Organic Air Greenhouse HEPA Filters

The Organic Air HEPA Filters are designed to filter out 90% of unwanted particulate matter from the air. They trap insects, bacteria, mold, and more. The filter can be washed to ensure maximum performance for many years of use. Filter attaches to a fan or blower by sliding the rubber collar over the inlet or outlet side. Secure the filter by using the clamp provided, tighten clamp with screw driver.



Item	Description	MSRP
OAH-4	Organic Air HEPA Filter 4" . . . . .	\$89.95
OAH-6	Organic Air HEPA Filter 6" . . . . .	124.95
OAH-8	Organic Air HEPA Filter 8" . . . . .	159.95
OAH-10	Organic Air HEPA Filter 10" . . . . .	214.95
OAH-12	Organic Air HEPA Filter 12" . . . . .	264.95

### C.A.P. OZN-Jr. Ozone Generator

The C.A.P. OZN-Jr Ozone Generator attacks and neutralizes odors. It eliminates odors caused by smoke, mold, mildew, pets, cooking and damp basements by generating ozone (O3), one of the most powerful oxidizers available. O3 doesn't just mask odors, it neutralizes odors at the source, then harmlessly converts to CO<sub>2</sub> and oxygen. It cycles at 10 minutes on and 10 minutes off. Perfect for small areas or rooms. Good for deodorizing up to 1000 cubic feet. It comes complete with a 3 year no hassle warranty.



Item	Description	MSRP
OZN-JR	C.A.P. OZN-Jr. Ozone Generator . . . . .	\$89.95

### C.A.P. OZN-1 Ozone Generator

The C.A.P. OZN-1 Ozone Generator attacks and neutralizes odors caused by smoke, mold, mildew, pets, cooking, and damp basements by generating ozone (O3)-one of the most powerful oxidizers available. O3 doesn't just mask odors, it neutralizes odors at the source, then converts to CO<sub>2</sub> and oxygen. Built in mounting brackets make for easy installation. Good for deodorizing up to 5500 cubic feet. Produces up to 1,000 mg of ozone per hour. Comes complete with a 3 year warranty (6 months on the bulb).



Item	Description	MSRP
OZN-1	C.A.P. OZN-1 Ozone Generator . . . . .	\$139.95
OZNB	Replacement Bulb for OZN-1 . . . . .	39.95



**ALL AXIAL FANS COME COMPLETE WITH CORD!**

## Dayton Axial Jet Fans

These Axial Fans are available for building your own grow chambers or for many other uses. They are available in 3 1/4", 4", and 6". They have ball bearing motors, assuring a very long life. They all move large amounts of air, but with very little pressure, meaning that C.F.M. ratings drop dramatically when attached to duct. They all include a 6' "Plug and Play" cord. One year warranty.

Item	Description	MSRP
AXF-3.5	3 1/4" Axial Fan 55 C.F.M. ....	\$26.95
AXF-4	4" Axial Fan 105 C.F.M. ....	33.95
AXF-6	6" Axial Fan 238 C.F.M. ....	68.95
AXF-CRD	6' Replacement Axial Fan Cord ....	7.95

## Air King Pedestal Fans

The Air King pedestal fan will move the air in your grow area to provide for better air circulation and growth. The Air King pedestal fan allows you to control oscillation and speed. Available in 2 sizes. These fans are very high quality. One year warranty!

**Air King**  
Ventilation Products®

**1 Year  
Warranty**



## Air King 6" Clip Fan

This two-speed little clip fan is great for small gardens. It will clip almost anywhere and takes up almost no space. They move a lot of air for their size. One year warranty!



Item	Description	MSRP
FAN-6A	6", Two-speed, Non Oscillating Clip Fan ....	\$25.95

## Air King Wall-Mount Fans

Don't settle for cheap wall mount fans! The Air King fan is the best and most reliable fan out there, and is available in 2 different sizes! Whether you want 12" and 18", these wall-mounted fans will move the air in your grow area to provide for better air circulation and growth. Allows you to control oscillation and speed. One year warranty!

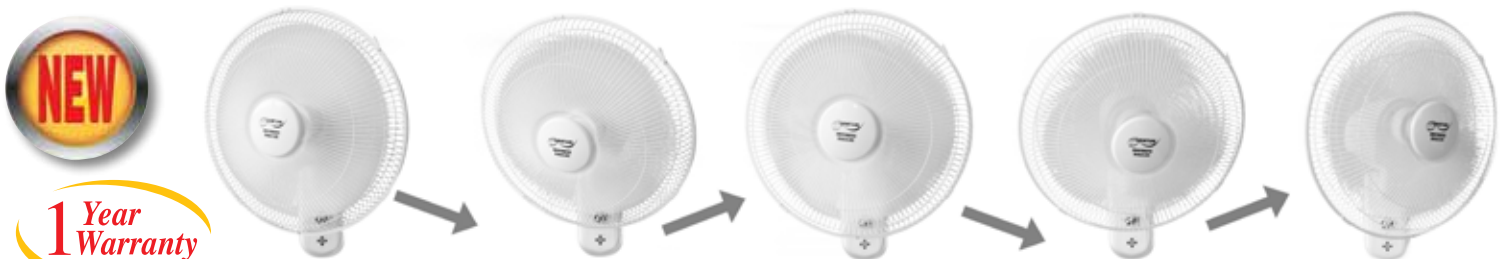


Item	Description	MSRP
FAN-16PA	16" Oscillating Ped. Fan, 3 speed ....	\$64.95
FAN-18PA	18" Oscillating Ped. Fan, 3 speed ....	67.95

Item	Description	MSRP
FAN-12A	12" Oscillating Wall Fan, 3 speed ....	\$68.95
FAN-18A	18" Oscillating Wall Fan, 3 speed ....	77.95
FAN-ABR	Wall Mount Replacement Bracket (12,18") ....	9.95

## Quantum Infinite Breeze Wall-Mount Fan

The Infinite Breeze allows the best air movement in your garden without adding additional equipment or taking up valuable electricity. Single direction, wall mounted fans are only effective in creating turbulence in a very limited amount of canopy space. While this may aid air movement in that precious space between plants and the bulb, it does little in the way of exchanging air underneath the canopy and reproducing the natural sway plants experience while basking in the sweet sun outdoors. Don't allow cheap mono directional fans with high failure rates to be the deciding factor on how well your garden's air circulates... step up to the infinite possibilities, and step up to the Infinite Breeze.



**INFINITE BREEZE**

Item	Description	MSRP
FAN-16QCB	16" Oscillating Wall Mount Fan ....	\$55.95



# Air Purification

## ONA Fans

The ONA Breeze fan unit is well suited to most applications because of its portability and size. Quick and easy to move—it can provide a fast response to accident situations and look discrete with almost no noise! Uses include: garbage areas, garages, change-rooms, closets, laundry areas, indoor & hydroponic gardens, waiting rooms, retail outlets and leisure areas. The ONA Storm is ideal for neutralizing airborne odors in larger facilities such as schools, gymnasiums and office buildings. The ONA Storm, with its adjustable airflow control, evenly distributes ONA for areas up to 10,000 square feet (1,100 square meters). ONA Dispensers are designed to be used exclusively with ONA Gel.



Item	Description	MSRP
<b>OCBFAN</b>	Ona Breeze Fan . . . . .	\$74.95
<b>OCSFAN</b>	Ona Storm Fan . . . . .	219.95

## ONA Bleach

ONA Bleach is a potent hydroponics cleaning and decalcification system. It is made in an easy two-step process. Mix equal parts of ONA Bleach and ONA Bleach Activator, wait 15 minutes and then add to water. It is powerful for cleaning but easy on your eyes, nose and skin. It does not give off strong, irritating vapors like regular bleach.



Item	Description	MSRP
<b>OCBL8</b>	Ona Bleach 8 oz. . . . .	\$15.95
<b>OCBLQT</b>	Ona Bleach Quart . . . . .	24.95
<b>OCBLGA</b>	Ona Bleach Gallon. . . . .	64.95

## ONA Block

The ONA Block is ideal for small areas such as closets, foyers, attics, cars, gym bags, boats, kitchens, garbage cans, cupboards or vents. Simply remove the cap, or punch several small holes in the cap and place in desired location. The ONA Block measures 3" x 3" and will fit in most places.



Item	Description	MSRP
<b>OCPCBK</b>	Block Polar Crystal 6 oz. . . . .	\$8.95
<b>OCPRBK</b>	Block Pro 6 oz. . . . .	8.95
<b>OCFLBK</b>	Block Fresh Linen 6 oz. . . . .	8.95

## ONA Pro Odor Neutralizing Spray

It leaves nothing behind to indicate that any odors were present. Nothing! Nada! Zilch! ONA PRO Spray is the best we've ever done, and it is all you will ever need. It is a true odor neutralizer, unlike some store brands that just scent the air.



Item	Description	MSRP
<b>OCPRS8</b>	Pro Odor Neutralizing Spray . . . . .	\$9.95

## ONA Liquid

ONA Liquid can be added to commercial misting systems, humidifiers or simply sprayed freely into the air to neutralize airborne odors on contact. ONA Liquid is water based and can easily be diluted for safe and effective washing of odor saturated garments. ONA Liquid can also be added to exhausted ONA Gel to reconstitute the gel.



Item	Description	MSRP
<b>OCPCQT</b>	Polar Crystal Quart . . . . .	\$15.95
<b>OCPCGA</b>	Polar Crystal Gallon . . . . .	37.95
<b>OCPC5G</b>	Polar Crystal 5 Gallon . . . . .	154.95
<b>OCFLQT</b>	Fresh Linen Quart . . . . .	14.95
<b>OCFLGA</b>	Fresh Linen Gallon . . . . .	32.95
<b>OCFL5G</b>	Fresh Linen 5 Gallon . . . . .	129.95

## ONA Gel

The ONA Gel is our most popular product. We spent many years developing a blend of ONA Liquid and various suspension elements to result in a product that has excellent dispersion qualities. The ONA odor neutralizing agents are released in a controlled manner so that every drop of this excellent product is fully optimized.



Item	Description	MSRP
<b>OCPCGQT</b>	Polar Crystal Quart . . . . .	\$19.95
<b>OCPCGGA</b>	Polar Crystal Gallon Pail . . . . .	41.95
<b>OCPCGJGA</b>	Polar Crystal Gallon Jar. . . . .	41.95
<b>OCPCG5G</b>	Polar Crystal 5 Gallon. . . . .	167.95
<b>OCPRGQT</b>	Pro Quart . . . . .	17.95
<b>OCPRGGA</b>	Pro Gallon Pail . . . . .	39.95
<b>OCPRGJGA</b>	Pro Gallon Jar. . . . .	39.95
<b>OCPRG5G</b>	Pro 5 Gallon. . . . .	169.95
<b>OCFLGQT</b>	Fresh Linen Quart . . . . .	13.49
<b>OCFLGGA</b>	Fresh Linen Gallon Pail . . . . .	37.95
<b>OCFLGJGA</b>	Fresh Linen Gallon Jar. . . . .	34.95
<b>OCFLG5G</b>	Fresh Linen 5 Gallon. . . . .	144.95

## ONA Mist And Dispenser

ONA Mist comes conveniently packaged in aerosol cans for use wherever odors occur. The ONA Mist cans hold 170 grams or 6 ounces of ONA, and are small enough to store practically anywhere. ONA is very powerful and will neutralize odors in garages, restaurants, bathrooms, hotel rooms, kitchens, smoking rooms, or any place in your home or small business facility.



Item	Description	MSRP
<b>OCPCM</b>	Ona Mist Polar Crystal . . . . .	\$15.95
<b>OCPRM</b>	Ona Mist Pro . . . . .	15.95
<b>OCFLM</b>	Ona Mist Fresh Linen . . . . .	15.95
<b>OCMD</b>	Ona Mist Dispenser . . . . .	24.95

## DuctStat

An economical and reliable automatic on/off control for in-line duct fans. The DuctStat has an adjustable temperature range: 40° F to 110° F. This can be used year round with automatic on/off for heating and cooling. Mounts on duct to control in-line duct fans or wall mount for ambient room control. 5 Amp maximum load.



Item	Description	MSRP
DUS-001	DuctStat	\$39.95

## Green Planet Duct Mufflers

Green Planet Mufflers come in various sizes from 6" to 14" in diameter. They are the industry leaders in duct noise reduction. These quality silencers are designed to be put after the fan and reduce noise up to 70%. A must have for every garden. Shipped in a convenient flat box and easy to assemble.

**UNIQUE INTERIOR MATERIAL DESIGN PROVIDES OPTIMAL NOISE REDUCTION**

Item	Description	MSRP
MUFGP-6	6" Duct Muffler	\$87.95
MUFGP-8	8" Duct Muffler	104.95
MUFGP-10	10" Duct Muffler	214.95
MUFGP-12	12" Duct Muffler	231.95

## Suncourt Duct Mufflers

Duct Mufflers reduce noise and vibrations in your ventilation system. They are available in 6", 8", 10" and 12" duct diameters. They do not restrict airflow through your duct work. They are maintenance free and easy to install. They will reduce your perceived noise by about 15 decibels.



Item	Description	MSRP
MUF-6	6" Duct Muffler	\$92.95
MUF-8	8" Duct Muffler	107.95
MUF-10	10" Duct Muffler	189.95
MUF-12	12" Duct Muffler	199.95



## Inline Duct Fans

An Inline Duct Fan is a reliable and cost effective way to keep temperatures in the indoor garden under control. Available in five models. All work with standard sheet metal or flexible duct work. Use one fan per light for air cooling or to increase the efficiency of an existing exhaust system. These fans have a low static pressure which means that the longer the duct, the less effective they will be. For longer runs, a blower is much more effective. Grounded power cord attached. 1 year warranty.



Item	Description	MSRP
DFN-4	4" Inline Duct Fan, 80 C.F.M.	\$44.95
DFN-6	6" Inline Duct Fan, 250 C.F.M.	44.95
DFN-8	8" Inline Duct Fan, 500 C.F.M.	54.95
DFN-10	10" Inline Duct Fan, 650 C.F.M.	64.95
DFN-12	12" Inline Duct Fan, 800 C.F.M.	76.95

## Electric Duct Damper

Apply power to these dampers and the Normally Open Dampers will close shutting off all airflow. Apply power to Normally Closed Dampers and they will open allowing air to pass. Remove power and a spring returns the dampers to their original position. These new dampers have a specially designed seal that ensures no air leakage when closed to prevent energy loss and wind noise. They are great for preventing CO<sub>2</sub> and odors from escaping your grow area. Available in 4 different duct sizes. Power supply included.

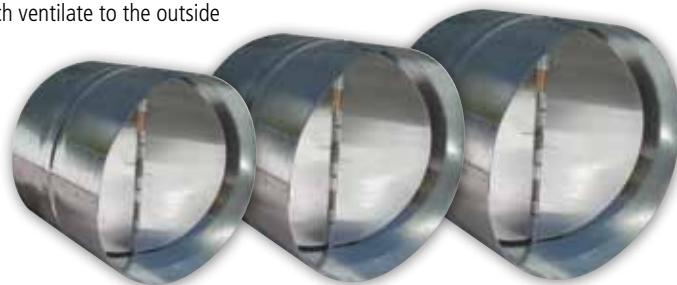


Item	Description	MSRP
DMP-6NC	6" Duct Damper Normally Closed	\$97.95
DMP-6NO	6" Duct Damper Normally Open	97.95
DMP-8NC	8" Duct Damper Normally Closed	99.95
DMP-8NO	8" Duct Damper Normally Open	99.95
DMP-10NC	10" Duct Damper Normally Closed	104.95
DMP-10NO	10" Duct Damper Normally Open	104.95
DMP-12NC	12" Duct Damper Normally Closed	109.95
DMP-12NO	12" Duct Damper Normally Open	109.95

## Backdraft Damper

Backdraft dampers are designed to prevent reverse air flow. Most intermittent systems which ventilate to the outside will greatly benefit by having backdraft dampers.

Item	Description	MSRP
BDAM-400	4" Backdraft Damper. . . . .	\$16.95
BDAM-600	6" Backdraft Damper. . . . .	18.49
BDAM-800	8" Backdraft Damper. . . . .	23.95
BDAM-1000	10" Backdraft Damper. . . . .	29.95
BDAM-1200	12" Backdraft Damper. . . . .	34.95



## C.A.P. Connectors

Powder coated corrosion resistant galvanized construction. Available in 4", 6", 8", 10" or 12" duct diameters. These connectors enable you to keep multiple areas ventilated, keeping fresh, clean air in your indoor garden. **These high quality duct connectors are the best on the market!!**



## C.A.P. Duct Reducers

Powder coated corrosion resistant galvanized construction. Available to fit standard duct sizes from 12"-10" to 6"-4". For use with fans, duct, and other ventilation systems. **These high quality duct reducers are the best on the market!!**



Item	Description	MSRP
DUC-25	4" Y Connectors. . . . .	\$11.95
DUC-26	6" Y Connectors. . . . .	16.95
DUC-27	8" Y Connectors. . . . .	19.95
DUC-28	10" Y Connectors. . . . .	26.95
DUC-29	12" Y Connectors. . . . .	31.95

Item	Description	MSRP
DUC-35	6" - 4" Duct Reducer . . . . .	\$8.95
DUC-36	8" - 6" Duct Reducer . . . . .	10.95
DUC-37	10" - 8" Duct Reducer . . . . .	12.49
DUC-38	12" - 10" Duct Reducer . . . . .	13.49



Item	Description	MSRP
DUC-30	4" T Connectors . . . . .	\$6.95
DUC-31	6" T Connectors . . . . .	9.49
DUC-32	8" T Connectors. . . . .	10.49
DUC-33	10" T Connectors . . . . .	11.49
DUC-34	12" T Connectors . . . . .	12.49

Item	Description	MSRP
DUC-39	4" Straight Connector, Splice. . . . .	\$2.49
DUC-40	6" Straight Connector, Splice. . . . .	2.95
DUC-41	8" Straight Connector, Splice. . . . .	3.49
DUC-42	10" Straight Connector, Splice. . . . .	3.95
DUC-43	12" Straight Connector, Splice. . . . .	4.95

## Elbows

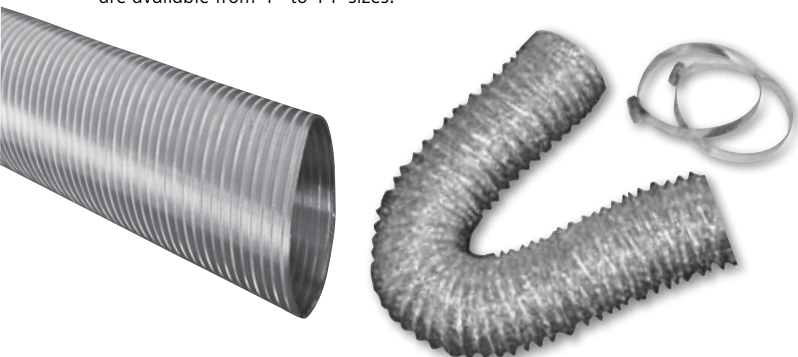


Item	Description	MSRP
DUC-12	4" Adjustable Elbow, 90°. . . . .	\$3.49
DUC-13	6" Adjustable Elbow, 90°. . . . .	4.95
DUC-14	8" Adjustable Elbow, 90°. . . . .	6.95



## Flexible, Bendable Duct and Worm Clamps

Our expandable air duct is made of aluminum. It will handle temperatures up to 140° F and will not kink. The flexible duct comes in 25' sections which can be cut to length. The bendable duct comes in 8' lengths. Flexible and bendable duct come in 4", 6", 8", and 10" diameters. Worm clamps are sold in sets of 2 and are available from 4" to 14" sizes.



Item	Description	MSRP
DUC-01	4" Flexible Duct, 25', Mylar and Wire. . . . .	\$12.95
DUC-02	6" Flexible Duct, 25', Mylar and Wire. . . . .	16.95
DUC-03	8" Flexible Duct, 25', Mylar and Wire. . . . .	22.95
DUC-04	10" Flexible Duct, 25', Mylar and Wire. . . . .	27.95

Item	Description	MSRP
DUC-05	4" Bendable Duct, 8', High Heat . . . . .	\$7.95
DUC-06	6" Bendable Duct, 8', High Heat . . . . .	12.95
DUC-07	8" Bendable Duct, 8', High Heat . . . . .	16.95
DUC-08	10" Bendable Duct, 8', High Heat . . . . .	23.95

Item	Description	MSRP
CMP-1	4" Worm Clamp (Set of 2) . . . . .	\$1.95
CMP-2	6" Worm Clamp (Set of 2) . . . . .	1.89
CMP-3	8" Worm Clamp (Set of 2) . . . . .	3.95
CMP-4	10" Worm Clamp (Set of 2) . . . . .	4.39
CMP-5	12" Worm Clamp (Set of 2) . . . . .	5.49
CMP-6	14" Worm Clamp (Set of 2) . . . . .	5.95

## C.A.P. Quiet Clamps - SHHH!

Replace your standard hose clamps with HVAC Quiet Clamps from C.A.P. Made of 2" galvanized steel and lined with thick neoprene, these easy to mount clamps will attach to standard or flexible duct, inline fans, and carbon filters. This versatile synthetic rubber called 'neoprene', will reduce noisy vibration and isolate heavy airflow. Quiet Clamps come in packs of two and are available in 4", 6", 8", 10", and 12" sizes.



Item	Description	MSRP
CMP-7	4" Quiet Clamps (Pair) . . . . .	\$7.95
CMP-8	6" Quiet Clamps (Pair) . . . . .	9.95
CMP-9	8" Quiet Clamps (Pair) . . . . .	10.95
CMP-10	10" Quiet Clamps (Pair) . . . . .	11.95
CMP-11	12" Quiet Clamps (Pair) . . . . .	13.95

## C.A.P. Lightproof Duct

Our Lightproof Duct is designed for years of use. It will handle temperatures up to 140° and will not kink. It comes in 25' sections which can be cut to length. Available in 4", 6", 8", 10", and 12" diameters. Clamps included.



Item	Description	MSRP
DUC-49	4" x 25' Lightproof Air Duct with Pair of Clamps. . . . .	\$16.95
DUC-50	6" x 25' Lightproof Air Duct with Pair of Clamps. . . . .	24.95
DUC-51	8" x 25' Lightproof Air Duct with Pair of Clamps. . . . .	34.95
DUC-52	10" x 25' Lightproof Air Duct with Pair of Clamps. . . . .	42.95
DUC-53	12" x 25' Lightproof Air Duct with Pair of Clamps. . . . .	49.95

## C.A.P. Fully Insulated Air Duct

Our Fully Insulated Air Duct is built with a durable, thick insulation layer for years of performance. It will handle temperatures up to 140° F and will not kink. This product is for serious gardeners that wish to better maintain grow room temperatures. It comes in 33' sections which can be cut to length. Available in 4", 6", 8", 10", and 12" diameters.



Item	Description	MSRP
DUC-44	4" x 33' Fully Insulated Air Duct . . . . .	\$26.95
DUC-45	6" x 33' Fully Insulated Air Duct . . . . .	39.95
DUC-46	8" x 33' Fully Insulated Air Duct . . . . .	49.95
DUC-47	10" x 33' Fully Insulated Air Duct . . . . .	59.95
DUC-48	12" x 33' Fully Insulated Air Duct . . . . .	69.95

# SPEED FREAK

C.A.P.'s Day/Night Variable Fan Speed Controller



Designed to gradually increase or decrease the speed of centrifugal fans depending on the day or night temperature set-points

*5 Year  
Warranty!*



See VSC-DNe on page 41



# G R O W M E D I U M S







## SO WHAT'S THE DIFFERENCE?



Choosing the right grow medium for your garden is a critical decision that should be weighed against a series of factors and carefully chosen. Your media serves as a matrix through which your nutrient solution will be disseminated and as a result of this relationship it is imperative that your media is a seamless extension of the system or method you choose. The physical properties of your media will dictate how well your media will drain, retain moisture, influence pH, harbor bacteria (good and bad), as well as limit how much air is entrained in the voids. These parameters must be constrained and their ranges defined; for the crop you are cultivating depends on it.

Unfortunately, there are no magic medias currently available that work in every system or environment. It is up to you to make the decision which media you think enhances the overall functionality of your system. This can be attained in a fairly straightforward fashion by educating yourself about how your garden functions. Is your garden flood and drain? Is it a deep-water culture? Do you top drip? Is it a NFT system? These questions will help you decide what media is right for you. You may want more residence time from your media if you prefer to water less or you are in a drain to waste system. You may want to use an aggregate or other free draining media to capitalize on the advantages of a NFT system or Aeroponic setup. These are the types of questions you should consider when choosing your media.



# THE COMPETITION IS HERE

**NUTRIFIELD'S NF PREMIUM COCO IS YOUR  
ULTIMATE ORGANIC BASED GROWING MEDIUM.**



- Washed and pre-buffered to nutrient deficiencies and lock-outs
- Manufactured to stringent RHP standards for premium Coco Coir
- Contains essential 30% air porosity to prevent oxygen starvation
- The most forgiving medium on the market
- pH stabilized for optimum results

Item	Description	MSRP
NFCP50	nf Coco 50 Liter Bag	\$19.95

Item	Description	MSRP
NFCB	nf Coco 650g Brick	1.95
NFCMB	nf Coco 5kg Mega Brick	9.95





# Grow Mediums

## Roots Organics Formula 707

Formula 707 was created for a special kind of gardener: one who wants to control their own destiny. Formula 707 is different from other potting mixes created by Aurora Innovations. It is designed for greater water holding capacity, and contains less perlite and fertilizer. A custom formula for large container gardening. In fact, the bag itself is a 30 gallon grow bag containing just less than 20 gallons / 3 cu. ft. of the finest quality potting mix. Just poke holes in the bottom, cut off the top and plant.



Item	Description	MSRP
RO707	Formula 707 3 cu. ft. ....	\$23.95

## Roots Organics Soilless Coco Fiber

A unique formulation of the highest quality coco fiber/coir on the planet which is repeatedly washed for an incredibly low EC, composted for over 24 months, and specially blended with extra long fibers, perlite, and pumice. Lightly amended with a starter charge of organic fertilizers like bat guano, worm castings and kelp, this mix is designed for heavy feeding and high performance in container or hydroponic applications.



Item	Description	MSRP
ROCO	Soilless Cocofiber 1½ cu. ft. ....	\$17.95

## Roots Organics Potting Soil

Comes in a heavy-duty, ready-to-grow, 1.5 cu ft/10 gal, & .75 cu ft/5 gal, camouflage print bag; simply poke holes in the bottom, cut off the top, and plant. This soil is amended with only the highest quality organic ingredients including bat guano, premium earth worm castings, fish bone meal, feather meal, green sand, mycorrhizae, glacial rock dust, soybean meal, humic acid, and many more. Blended with correct proportions of perlite and pumice for excellent drainage and a vigorous root system.



Item	Description	MSRP
ROPS	Potting Soil 1½ cu. ft. ....	\$14.95
ROPSM	Potting Soil Mini ¾ cu. ft. ....	9.95

## Roots Organics Big Worm

Roots Organics Premium Worm Castings is a distinctive natural soil amendment. These worms are carefully tended and fed an unparalleled blend of organic compost, rock dust and kelp for exceptional quality castings. In addition to containing Nitrogen, these castings also contain small amounts of Phosphorus and Potassium with naturally occurring micronutrients, minerals and beneficial bacteria. Worm castings contain Auxins and Cytokines, which are growth hormones that promote bigger and more fibrous plant roots. No fillers, no chemicals and no tricks. Just pure worm castings. 1 cu ft. bag.



Item	Description	MSRP
ROWC	Big Worm 1 cu. ft. ....	\$37.95

## BioBizz Mixes

All-Mix is a specially-blended compost that contains sphagnum peat moss, garden peat, and perlite in addition to the molasses and nutrient-rich kelp, seaweed, and guano. Coco-Mix is an organic substrate that can be used in combination with special coco nutrients containing organic minerals. Light-Mix is an ideal potting soil for organic gardeners who want to have control over the growing process through the application of liquid fertilizers.

BioBizz Mixes	MSRP
BBAM50 All Mix 50L Bag .....	\$29.95
BBLM50 Light Mix 50L Bag .....	24.95
BBCM50 CoCo Mix 50L Bag .....	25.95

**BIOBIZZ**<sup>®</sup>  
WE CREATE NATURE





## Hydroton Grow Rocks

Hydroton Grow Rocks are a special kiln-fired, lightweight aggregate that is super-heated and formed into pebbles 8-16 mm in size. The ceramic shell and inner pore structure retains moisture and releases it back to your plant's roots as needed. Grow rocks will not compact, ensuring excellent aeration for the life of your plant. It is reusable and lasts indefinitely, making it a great value. Grow rocks are excellent in net pots for Ebb & Flow and Drip systems. They come in two sizes, 10 liter (2½ gallons) and 50 liter (13 gallons).



## Higromite Silica Stone

Completely reusable, the varied shapes of the rocks promote porosity, allowing more oxygen to reach the roots. Higromite provides the grower with much more precision in watering and management of nutrients. In side by side studies with other growing mediums, plants grown in Higromite exhibited more compact growth, improved stem length, quicker establishment, better bloom breaking, improved leaf expansion and an increased overall yield. Higromite provides several advantages over expanded clay pebbles, coco, and rock wool. It's high in silica, pH neutral, and has the best moisture retention and release on the market today.



Item	Description	MSRP
RCK-10	10 Liter Bag .....	\$11.95
RCK-50	50 Liter Bag. ....	34.95

Item	Description	MSRP
HIG25	21.75 Liter Bag .....	\$19.95



## For The C.A.P Ebb-12 System

**Sure To Grow** products are designed to benefit growers and users by using a unique substrate and a technology designed for the 21st century. **Sure To Grow** is lightweight, cleaner, and less bulky than any other medium currently on the market and is an excellent alternative to Hydroton or Higromite.

In addition, Sure To Grow can be used together with other media. Industry trials have indicated several value-added properties: quicker and cleaner installation and removal of medium, decreased germination time, easier harvesting, and seamless use with current grow systems.



Deluge Insert (STG-7) shown with EBB-12 System

### Sure To Grow For The EBB-12 System

Item	Description	MSRP Each
STG-7	Sure To Grow Deluge 8" x 8" Cylinder .....	\$7.95

## Sure To Grow Storm Hail Mini Cubes

- Easily fill any size pot or container regardless of size or shape
- Proprietary open cell design allows for air to move freely through the cubes, ensuring the stem stays dry and healthy while the roots beneath receive ambient circulation
- Non-wicking design combined with inherent structural voids allows the grower to feed more often leading to healthier plants and better harvests
- One 50 liter bag (STG-MC50) fills 6 EBB-12 System Pots

Item	Description	MSRP Ea.
STG-MC25	STG Hail Mini 25 Liter Bag (single) .....	\$24.95
STG-MC50	STG Hail Mini 50 Liter Bag (single) .....	37.95



# Grow Mediums

## Sure To Grow Storm Series Inserts

- Specifically designed for all major cloning, bucket, and net pot systems
- Nearly infinite amounts of open cell voids encourage dense root development
- All STG products are pH neutral and require no conditioning or continuous adjustment of your bath due to media influence
- All STG products are inert and impart nothing to your nutrient solution. This allows the grower to "start from scratch" when developing a feeding schedule
- Non-wicking design allows the grower to feed more often, leading to a healthier plant and better harvests
- Open cell design allows for air to move freely through the insert, ensuring the stem stays dry and healthy and the roots beneath receive ambient circulation
- Perfect for hobbyists or hydroponic business purposes



Item	Description	MSRP Pack
STG-1	Sure To Grow Clipper 2" x 2" Cylinder (24 pack)	\$11.95
STG-2	Sure To Grow Clipper 2" x 2" Bio-Cylinder (24 pack)	22.95
STG-3	Sure To Grow Arroyo 3¼" x 2¾" Cylinder (12 pack)	17.95
STG-4	Sure To Grow Tempest 4¾" x 4½" Cylinder (12 pack)	24.95
STG-5	Sure To Grow Tornado 6" x 4¾" Cylinder (6 pack)	17.95
STG-6	Sure To Grow Twister 6" x 6" Cylinder (6 pack)	29.95
STG-7	Sure To Grow Deluge 8" x 8" Cylinder (6 pack)	47.95
STG-8	Sure To Grow Typhoon 10" x 9" Cylinder (6 pack)	49.95
STG-9	Sure To Grow Squall 4¾" x 6" Square (6 pack)	24.95
STG-10	Sure To Grow Surge 7" x 9½" Square (6 pack)	44.95

## Sure To Grow Blocks

Superior to Rockwool Blocks. They are lighter, and wet instantaneously with enhanced root growth. They do not break or fall apart and there is no dust or mess. They are also free of pathogenic organisms and require no pretreatment or further sterilization. STG Grow Blocks are designed to accept plants grown in commonly used propagation starter cubes or STG Grow Cubes that have already rooted or sprouted. When the roots in the STG Grow Cubes are exposed, they are ready to be transplanted into the larger STG Grow Blocks.



Item	Description	MSRP Pack
STG-B4	Sure To Grow Media 4" x 4" x 4" Blocks (6 pack)	\$8.95
STG-B6	Sure To Grow Media 6" x 6" x 4" Blocks (4 pack)	9.95

## Sure To Grow Slabs

Offers a revolutionary design and approach to vegetable growing. Unlike Rockwool and Coir slabs, STG Grow Slabs have been proven to work as well or better at only ½ the thickness with greatly enhanced root mass. Each Grow Slab is available in a UV resistant agricultural polyethylene sleeve to enhance growth. They are free of pathogenic organisms and require no pretreatment or further sterilization. The STG Grow Slab is designed to continue the plant growth cycle achieved in the STG Grow Blocks for those crops that have large root masses.



Item	Description	MSRP Each
STG-GS6	Sure To Grow Media 36" x 6" x 3" Slabs	\$5.95
STG-GS8	Sure To Grow Media 36" x 8" x 3" Slabs	8.95

## Sure To Grow Starter Cubes and Pads

A unique growth system that is designed for ease of use and efficiency while fitting right into standard 10/20 Grow Trays. The STG Grow Pad wets instantaneously, which allows for quicker, more even, and consistent yields. The starter cubes can be used directly into float systems or can be transplanted to either soil or soilless media, as well as into the STG Grow Block for larger plants. The cubes are open celled, water absorbing forms that promote rapid root formation.



Item	Description	MSRP Each
STG-C	Sure To Grow Media 1½" x 1½", 98 Cubes	\$8.95
STG-GP	Sure To Grow Media 20" x 9¾" x 1/3" Pad	.095
STG-GR	Sure To Grow Media 20' x 9¾" x 1/3" Roll	19.95

## Sure To Grow Loose Fill

Used to fill Buckets, Grow Bags, Net Pots, and Nursery Pots. Superior alternative to loose media and granulated products, including: granulated rockwool, coir, perlite, vermiculite, expanded clay, clay balls, and grow rocks. Suitable for filling containers as a stand-alone media or as an amendment to soilless mixes and other organic media.



Item	Description	MSRP Each
STG-LF	Sure To Grow Media 2 cu. ft. Loose Fill	\$28.95

## Sure To Grow Mats

A unique grow system for growers that use grow tables, troughs, or gutters. This unique method of replacing the media for each new planting also impacted growers who were troubled by root diseases like Pythium. As any grower will attest, once Pythium gets into the media, it is very difficult to get rid of it. Because each new STG mat is sterile and hygienic it does not allow for cross contamination and spreading of disease which in turn creates a much more hygienic and sterile environment in any type grow facility.



Item	Description	MSRP Each
STG-GM4	Sure To Grow Media 4' x 4' x 1" Mat	\$35.95
STG-GM8	Sure To Grow Media 8' x 4' x ½" Mat	26.95
STG-GM20	Sure To Grow Media 20' x 1' x 1" Mat	44.95





## Starter Sheets

Rockwool Starter Sheets are great for starting seeds or cuttings. They come in a sheet of 98 cubes. The cubes are tapered to allow air movement between them and to allow for air pruning of roots to keep them easy to separate after your seedlings or cuttings take root. They have a small hole punched into them to place your seed or cutting. They fit in a standard 10" x 20" propagation tray. They can be broken apart so that the whole sheet does not have to be used at one time. They are normally transplanted into grow rocks or larger rockwool blocks.



## Starter Cubes

Rockwool Starter cubes come in packs of 45. They are 1½" x 1½" x 1½". They are primarily used for seeds and cuttings. They are individually wrapped to retain moisture longer. They have a small hole punched into them to place your seed or cutting. You can fit 72 cubes into a standard propagation tray (6 rows by 12 rows), though you should only put in about 50 to allow for air movement between them (5 rows x 10 rows). They are normally transplanted into either grow rocks or placed into larger rockwool blocks.



## Rockwool Blocks and Cubes

Plant Comfort is a premium rockwool. This unique rockwool has a special fiber structure which provides a block with less density for the roots to grow through much easier while still retaining the block's strength. The unique OptiDrain™ provides better drainage than standard slotted blocks. The OptiDrain™ provides block stability while allowing better oxygenation into the root zone. Plant Comfort is available with a Drip Ring™ that prevents water from running off the block when using drippers, allowing more uniform watering of blocks and providing a significant nutrient savings of up to 50% when using drip-to-waste systems.



**CHECK OUT C.A.P. 2 FACED ROCKWOOL BLOCK COVERS ON NEXT PAGE!**

Item	Description	Block Strip	MSRP Each
PC1x1C	1½" x 1½" x 1½" (Starter Sheet of 98)	1	10.95
PC1x2C	1½" x 1½" x 1½" (45 Wrapped Cubes)	45	6.95
PC3x3C	3" x 3" x 2½" Blocks	8	4.49
PC4x4C	4" x 4" x 4" Blocks	6	6.95
PC4x4DC	4" x 4" x 4" Blocks w/Drip Ring	6	7.49
PC6x4C	6" x 6" x 4" Blocks	4	9.49
PC6x4DC	6" x 6" x 4" Blocks w/Drip Ring	4	10.49
PC6x6C	6" x 6" x 6" Blocks	4	11.49
PC6x6DC	6" x 6" x 6" Blocks w/Drip Ring	4	11.95

## Rockwool Plugs

Plant Comfort Rockwool Plugs are round, so they fit in all of the larger rockwool cubes with ease. They are split to accept either a clone or a seed. They come 50 to a bag.



Item	Description	MSRP
PCPLUGC	Case of 1,350 Plugs Loose	264.95

## X-Fibre Rockwool Slabs

X-Fibre slabs are 36" long and come in 3 different widths, 6", 8", and 12". Normally, you would place a rockwool cube on top of them and let the roots grow into them. They are great to cut up into squares and use them for the extra root growth below cubes and to keep the plants from tipping over.



Item	Description	MSRP Each
PC6S	X-Fibre Rockwool 6" Slabs	\$5.95
PC8S	X-Fibre Rockwool 8" Slabs	7.95
PC12S	X-Fibre Rockwool 12" Slabs	12.95



## C.A.P. Grow Blocks and Plugz™

When professional growers want the absolute best for their "little ones", they choose C.A.P. Plugz™. Formulated specifically for seedlings and delicate cuttings, Plugz are composed of only the finest quality Peat and Perlite optimally blended to ensure proper aeration as well as adequate water retention. This attention to quality allows the grower to experience unparalleled viability and an overall increase in juvenile vigor.

C.A.P. Grow Blocks are easy to use, 100% self-contained and made with premium expandable soilless coir based substrate enclosed in an inert permeable fabric. This revolutionary design allows the grower to enjoy all the benefits of a premium loose substrate without all the hassles of preconditioning Rockwool or having to handle and blend a loose mix. Simply add water and allow the substrate to expand. Mini and mighty these little guys may just become your new favorite grow media.

Item	Description	MSRP
CGB-001	C.A.P. 2" Grow Block. . . . .	\$0.15
CGB-002	C.A.P. 3" Grow Block. . . . .	0.40
CGB-003	C.A.P. 4" Grow Block. . . . .	0.80
CGB-004	C.A.P. 4"x 6" Grow Block . . . . .	0.90
CGB-005	C.A.P. PLUGZ (Tray of 50). . . . .	12.95



## C.A.P. 2 Faced Rockwool Block Covers

2 Faced Block Covers reflect light back towards plants in addition to protecting them from algae growth. The white face reflects light to the plant while the black face blocks light from the media and helps with algae, mildew, and pest problems. Our unique circular design prevents light passage to your blocks even when the cover shifts or moves. 2 Faced Block Covers are available in sizes to cover 4", 6" and 8" blocks.

Item	Description	MSRP
BLC-001	4½" Rockwool Block Covers (40 pk). . . . .	\$4.95
BLC-002	6½" Rockwool Block Covers (40 pk). . . . .	7.95
BLC-003	8½" Rockwool Block Covers (40 pk). . . . .	12.95





# Propagation & Cloning

## Super Starts Plant Tissue Culture

With Plant Tissue Culture you can grow your favorite plants in glass and plastic containers in very small areas, saving space and light. Imagine cutting parts from your favorite plants and seeing them generate fresh shoots and roots before your eyes. A piece of Begonia leaf begins to grow new plants soon after being placed in the growing media. The new plants explode with bushy growth energized by the sugar and hormones.



Super Starts Kit



### Item

### Description

### MSRP

<b>PTCKIT</b>	Complete Plant Tissue Culture Kit . . . . .	<b>\$252.95</b>
<b>PTCMKIT</b>	Multiplication powder and liquid makes 1 liter-complete . . . . .	<b>8.49</b>
<b>PTCRKIT</b>	Rooting powder and liquid makes 1 liter-complete. . . . .	<b>7.95</b>
<b>PTCLID</b>	Culture Jar Lids 30/bag . . . . .	<b>22.49</b>

## Kit includes:

- 30 Jars & Plastic Tray
- 60 Clear Plastic Jar Lids
- 3 Packs Establish/Multiplication Hormone
- 1 Pack Rooting/Growth Hormone
- Gelling Powder Packets
- 1 Stainless Steel Scalpel #3 & Blade
- 8" Stainless Steel Forceps
- 1/2-Oz. Measuring Spoon
- 3 ml Measuring Droppers
- PVC Sealing Tape
- pH Control Kit With Test Papers & Correction Solutions
- 50-Page Instructional Manual with Color Photos & Illustrations
- DVD or VHS Instruction Video

## Olivia's Cloning Solution

One of the most popular, easy to use rooting fertilizers available! Olivia's Cloning Solution has been proven effective for many years. Olivia's will not burn sensitive cuttings or seedlings. Clear, easy-to-follow instructions ensure success. Available in quart and gallon bottles. Olivia's Cloning solution provides a daily gentle feeding solution for cuttings and seedlings.



## Olivia's Cloning Gel

A professional strength, easy/ready to use propagation gel. Just cut, clip and grow! Stimulates root development for all types of plants. Can be used for all stem, leaf, softwood, semi-hard, and some hardwood cuttings. Seals cutting and reduces transplant shock.



Item	Description	MSRP
<b>OCSQT</b>	Olivia's Cloning Solution Quart . . . . .	<b>\$11.95</b>
<b>OCSGA</b>	Olivia's Cloning Solution Gallon . . . . .	<b>32.95</b>

Item	Description	MSRP
<b>OCG2</b>	Olivia's Cloning Gel 2 oz. . . . .	<b>\$12.95</b>
<b>OCG4</b>	Olivia's Cloning Gel 4 oz. . . . .	<b>19.95</b>
<b>OCG8</b>	Olivia's Cloning Gel 8 oz. . . . .	<b>32.95</b>

## Mondi Trays & Domes

These propagation trays are 10" x 20" and fit a standard sheet of 98 rockwool starter cubes. They are available with a 7" clear dome cover for increased humidity. The propagation tray with holes fits inside a standard propagation tray. The 50 cell tray inserts fit into the propagation tray and are great for holding small rockwool starter cubes for easy watering and separation.

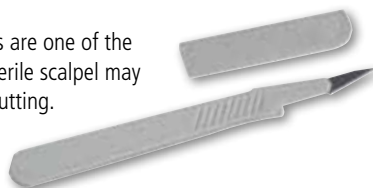
Item	Description	MSRP
<b>MDDOME</b>	Mini Greenhouse 7" Dome . . . . .	<b>\$5.95</b>
<b>MDTRAY</b>	Propagation Tray 10 x 20 . . . . .	<b>1.49</b>
<b>MDINSERT</b>	Propagation Tray Insert (50 cell) . . . . .	<b>1.29</b>

SOLD IN CASE QUANTITY ONLY



## Scalpels

Our individually wrapped sterilized scalpels are one of the best ways to take your plant cuttings. A sterile scalpel may help prevent disease and damage to any cutting.



Item	Description	MSRP Ea
<b>MSC-003</b>	Scalpels . . . . .	<b>\$1.65</b>

## Razor Blades

How are you going to take cuttings without a razor blade? If you want to give your cuttings the best chance of success, give them a clean cut with razor blades. Scissors crush the cutting, making for increased mortality rates.



Item	Description	MSRP
<b>BLADE-100</b>	Razor Blades, 100 Pack . . . . .	<b>\$7.95</b>





# WATER PURIFICATION





## THE IMPORTANCE OF CLEAN WATER



The quality of water that one uses in their garden is nearly as important as the nutrients themselves. Water is the vector by which the macro and micronutrients are delivered to your plant and as a result of this intimate relationship your water quality will dramatically influence the effectiveness of the nutrients you are using.

Things to consider when analyzing your water quality are: EC, pH, chlorine or chloramine levels, excessive carbonates and bicarbonates levels, biological pathogens, petrochemical contamination, and dissolved oxygen levels just to name a few. Without an understanding of what is in your water it is difficult to determine the type of filter best suited for your application.

You will also need to determine what your peak demand usage will be and whether or not you intend on constructing or purchasing a water storage reservoir. R.O. systems are the most popular choice with many models costing less than 300 dollars, however these versions generally produce less volume than their higher priced commercial volume comparatives. If your peak demand is 200 gallons a day but it is only on the day you change your reservoirs than a 100 gallon per day model with storage would be more than sufficient. If you don't have room for storage or if you want R.O. water on demand than a larger commercial style assembly would likely be a better choice.

## Pure Glacier 100 GPD 2 Stage Reverse Osmosis System

Finally an RO that caters to a small gardens needs, without breaking the bank! Introducing the most compact way to make RO water Ever. The 2 Stage Pure Glacier from C.A.P. It's a compact marvel of water filtration technology. The First Stage removes damaging agents such as Chlorine, so that the RO Element can perform efficiently.

Item	Description	MSRP
PGRO-001	Pure Glacier 100 GPD 2 Stage . . . . .	\$154.95
PGRO-CF10	Pure Glacier 10" Carbon Filter . . . . .	12.95
PGRO-M100	Pure Glacier 100 GPD Membrane . . . . .	64.95



## Pure Glacier 100 GPD 3 Stage Reverse Osmosis System

While listening to your requests for a better water filtration system, C.A.P. has done it again with the addition of the 3 Stage Glacier RO System. Introducing the industries first RO with user input parameters. C.A.P.'s fully adjustable waste valve allows you to dial in your drain water ratio for either greatest filter life, or for least amount of waste water. This coupled with the systems automated valving action which stops drain water when RO production is complete. Allowing C.A.P. to bring you the most advanced RO the world has ever seen.

Item	Description	MSRP
PGRO-002	Pure Glacier 100 GPD 3 Stage . . . . .	\$224.95
PGRO-SF10	Pure Glacier 10" Sediment Filter . . . . .	5.95
PGRO-CF10	Pure Glacier 10" Carbon Filter . . . . .	12.95
PGRO-M100	Pure Glacier 100 GPD Membrane . . . . .	64.95

## Pure Glacier 200 GPD 3 Stage Reverse Osmosis System

The 3 Stage 200 GPD RO System brings you all the features you fell in love with on the 100 GPD system, just with more water! The dual RO Membrane application allows for serious growers, to make some serious water!

Item	Description	MSRP
PGRO-003	Pure Glacier 200 GPD 3 Stage . . . . .	\$289.95
PGRO-SF10	Pure Glacier 10" Sediment Filter . . . . .	5.95
PGRO-CF10	Pure Glacier 10" Carbon Filter . . . . .	12.95
PGRO-M100	Pure Glacier 100 GPD Membrane . . . . .	64.95







## Pure Glacier 300 GPD 3 Stage

The 3 Stage 300 GPD RO System brings you all the features you fell in love with on the 100 and 200 GPD systems, just with a lot more water! The Triple RO Membrane application allows for serious growers, to make some serious water!



## Pure Glacier 1000 GPD 5 Stage

Making large volumes of pure water has never been easier or more affordable. This revolutionary point of use system works with your line pressure to create pure RO water. At 60 psi one can expect about 600 GPD+ but with 100 psi production flow rates of 1000 GPD are not uncommon. With 18,000 Gallons of pre-filtration capacity, this is the only system on the market ready to handle a garden of any size! And with Waste water ratios as tight a 2:1 you can feel green while you take care of your garden.



Item	Description	MSRP
<b>PGRO-004</b>	Pure Glacier 300 GPD 3 Stage . . . . .	<b>\$329.95</b>
<b>PGRO-SF10</b>	Pure Glacier 10" Sediment Filter . . . . .	<b>5.95</b>
<b>PGRO-CF10</b>	Pure Glacier 10" Carbon Filter . . . . .	<b>12.95</b>
<b>PGRO-M100</b>	Pure Glacier 100 GPD Membrane . . . . .	<b>64.95</b>

Item	Description	MSRP
<b>PGRO-005</b>	Pure Glacier 1000 GPD 5 Stage . . . . .	<b>\$899.95</b>
<b>PGRO-SF10</b>	Pure Glacier 10" Sediment Filter . . . . .	<b>5.95</b>
<b>PGRO-CF10</b>	Pure Glacier 10" Carbon Filter . . . . .	<b>12.95</b>

## Pure Glacier 10" High Flow De-chlorinator

Give yourself immediate water production with the 10" High Flow De-chlorination system from C.A.P. The C.A.P. High Flow systems includes dual stage treatment with a heavy duty metal bracket, that can be mounted anywhere. With a 10" High Capacity carbon block filter and a Ultra fine 1 micron sediment filter, this system will produce no waste.



## Pure Glacier 20" High Flow De-chlorinator

High Flow water production can be realized by allowing more water to flow, to this end CAP has released a 20" High Flow De-chlorination system. The C.A.P. High Flow systems includes dual stage 20" treatment with a heavy duty metal bracket, that can be mounted anywhere. With a 20" High Capacity carbon block filter and a Ultra fine 1 micron sediment filter, this system will produce no waste.



Item	Description	MSRP
<b>PGRO-007</b>	Pure Glacier 10" High Flow De-chlorinator . . . . .	<b>\$67.95</b>
<b>PGRO-SF10</b>	Pure Glacier 10" Sediment Filter . . . . .	<b>5.95</b>
<b>PGRO-CF10</b>	Pure Glacier 10" Carbon Filter . . . . .	<b>12.95</b>

Item	Description	MSRP
<b>PGRO-008</b>	Pure Glacier 20" High Flow De-chlorinator . . . . .	<b>\$159.95</b>
<b>PGRO-SF20</b>	Pure Glacier 20" Sediment Filter . . . . .	<b>12.49</b>
<b>PGRO-CF20</b>	Pure Glacier 20" Carbon Filter . . . . .	<b>29.95</b>

## Pure Glacier Reverse Osmosis Systems

	C.A.P. PART NUMBER	PRODUCT WATER FLOW RATE*	REMOVES CHLORINE	REMOVES CHLORAMINES	REMOVES SEDIMENT & DIRT	INLET TUBING SIZE	PRODUCT TUBING SIZE	WASTE TUBING SIZE
PURE GLACIER 100 GPD 2 STAGE	PGRO-001	100 GPD, 4.2GPH	YES	PARTIALLY	YES	1/4"	1/4"	1/4"
PURE GLACIER 200 GPD 3 STAGE	PGRO-003	200 GPD, 8.3 GPH	YES	PARTIALLY	YES	1/4"	1/4"	1/4"
PURE GLACIER 300 GPD 3 STAGE	PGRO-004	300 GPD, 12.6 GPH	YES	PARTIALLY	YES	1/4"	1/4"	1/4"
PURE GLACIER 1000 GPD 5 STAGE	PGRO-005	1000 GPD, 42GPH	YES	PARTIALLY	YES	3/8"	3/8"	3/8"
PURE GLACIER 2200 GPD	PGRO-006	2200 GPD, 90GPH	YES	PARTIALLY	YES	3/8"	3/8"	3/8"



## Pure Glacier 2200 GPD Commercial System

This unit boasts a microprocessor-controlled 1:1 waste water ratio. Long gone are the days of wasting 3, 4 or even 5 gallons of water for every precious clean gallon. This design will extend the life of the pump, since the water flowing through it is already free of most large particles. The Pure Glacier 2200 also features extended DI life via an automatic Membrane Flush upon start-up. This TDS Creep flushing is designed to prolong the life of the DI resin. A complete membrane flush upon shutdown, will help prevent membrane scaling. Another great feature of this new RO/DI unit by C.A.P. is the built in digital TDS meter with a large user interface. Finally, this unit has both High and Low pressure kill switches, which protect the pump and facilitate complete system automation.



Item	Description	MSRP
PGRO-006	Pure Glacier 2200 GPD Commercial SPO . . . . .	\$3,999.95

## Pure Glacier Accessories

Pure Glacier RO Systems by C.A.P. offer a full line of accessories to meet all your needs.

Item	Description	MSRP
PGRO-ASOV	High Pressure Auto Shut-Off Valve. . . . .	\$23.95
PGRO-ASVK	High Pressure Auto Shut-Off Valve Kit . . . . .	31.95
PGRO-DKIT	Add-on De-ionization Kit . . . . .	57.95
PGRO-FTVA	Float Valve Assembly. . . . .	21.95
PGRO-HFDI	High Flow De-ionizing Oppm . . . . .	157.95
PGRO-MASS	Add-on 100 GPD RO Membrane Assembly . . . . .	69.95

Item	Description	MSRP
PGRO-M150	150 GPD Membrane . . . . .	\$79.95
PGRO-MFKT	Membrane Flushing Kit . . . . .	19.95
PGRO-QCBC	1/4" Quick Connect Backflow Check Valve . . . . .	8.49
PGRO-TDSM	Dual Inline TDS Meter . . . . .	36.95
PGRO-UVST	Inline UV Sterilizer . . . . .	149.95



## Pure Glacier Dechlorinator/Sediment Filters

	C.A.P. PART NUMBER	PRODUCT WATER FLOW RATE*	REMOVES CHLORINE	REMOVES CHLORAMINES	REMOVES SEDIMENT & DIRT	INLET TUBING SIZE	PRODUCT TUBING SIZE	WASTE TUBING SIZE
HIGH FLOW	PGRO-HFDI	60 GPH, 1 GPM	YES	YES	YES	3/8"	1/2"	NONE**
PURE GLACIER 10" SEDIMENT	PGRO-SF10	120 GPH, 2 GPM	YES	PARTIALLY	YES	3/8"	3/8"	NONE**
PURE GLACIER 20" SEDIMENT	PGRO-SF20	60 GPH, 1 GPM	YES	PARTIALLY	YES	1/4"	1/4"	NONE**

Flow rates of RO systems are based on 60psi incoming pressure at 77 def F. Min/Max pressures are 40/80 psi respectively.

# Water Purification

## Stealth 100 & 200

The Stealth reverse osmosis water filters will produce up to 200 gallons of water per day. It will remove 98% of chlorine, calcium, excessive minerals and other contaminants. It will help prevent nutrient lockup by allowing you to know exactly what your plants are getting. No guessing on the amounts of calcium and other minerals in the water. Comes complete with 1 or 2 RO membranes, carbon filter, sediment filter, automatic shut-off cartridge, wall mountable wall bracket, and an inline shutoff valve. The units will hook up to a standard garden hose fitting (3/4"). The Stealth 100 will filter 100 gallons of water per day and the Stealth 200 will filter 200 gallons per day. They come with a 1 year warranty.



## Merlin GP

The Merlin Garden Pro will produce 30 gallons of water per hour - 750 gallons per day. It will remove 95% of chlorine, calcium, excessive minerals, and other contaminants. This will help prevent nutrient lockup by allowing you to know exactly what your plants are getting. It measures 10" x 18" x 20". Comes with 2 reverse osmosis membranes, carbon pre-filter, and inlet pressure gauge. It will hook up to a standard garden hose fitting (3/4"). The Eco Green Drain Elbow replaces the existing black drain elbow and saves 25% of the drain water. By forcing more untreated water through the RO membranes, less water goes to waste out the drain line. It comes with a 3 year warranty (1 year if used commercially).

Item	Description	MSRP
<b>HLS100</b>	100 Reverse Osmosis Filter 100-GPD .....	<b>\$224.95</b>
<b>HLS200</b>	200 Reverse Osmosis Filter 200-GPD .....	<b>\$314.95</b>
<b>HLSCCF</b>	100/200 Replacement Coconut Carbon Filter .....	<b>15.95</b>
<b>HLSROM</b>	100/200 Membrane .....	<b>82.95</b>
<b>HLSROSF</b>	100/200 Replacement Sediment Filter .....	<b>14.49</b>



Item	Description	MSRP
<b>HLMGP</b>	Pro Kit Reverse Osmosis Filter. ....	<b>\$589.95</b>
<b>HLMGPCF</b>	Pro Carbon Filter/Drinking Water .....	<b>31.95</b>
<b>HLMGPPM</b>	Pro Membrane Element .....	<b>141.95</b>
<b>HLMCPF</b>	Coconut Pre-Filter, Chlorinated Water. ....	<b>31.95</b>
<b>HLMGPSF</b>	Pro Sediment Filter Non-Chlorinated .....	<b>22.95</b>
<b>HLMELB</b>	Pro Eco-Green Drain Elbow 3/8" QC. ....	<b>18.95</b>



KEY	
GPD=	GALLONS PER DAY
GPH=	GALLONS PER HOUR
GPM=	GALLONS PER MINUTE
G=	GALLONS

## Reverse Osmosis Systems

	HYDRO-LOGIC PART NUMBER	PRODUCT WATER FLOW RATE*	REMOVES CHLORINE	REMOVES CHLORAMINES	REMOVES SEDIMENT & DIRT	INLET TUBING SIZE	PRODUCT TUBING SIZE	WASTE TUBING SIZE
<b>MERLIN-GARDEN PRO</b>	31025	750 GPD, 30 GPH	YES	PARTIALLY	YES	1/2"	3/8"	3/8"
<b>STEALTH-RO100</b>	31035	100 GPD, 4 GPH	YES	PARTIALLY	YES	3/8"	1/4"	1/4"
<b>STEALTH-RO200</b>	31040	200 GPD, 8 GPH	YES	PARTIALLY	YES	3/8"	1/4"	1/4"
<b>ECO-SPRING</b>	31020	40 GPD	YES	PARTIALLY	YES	1/4"	3/8"	1/4"

\*Flow rates of RO systems are based on source water at 60 PSI, 77°F, 500 PPM. Minimum inlet pressure is 40 PSI, maximum is 80 PSI. \*\*Dechlorinator/Sediment filters do not produce waste water



## Tall Boy

The Tall Boy eliminates 99% of chlorine and 90% of the sediment from your water. It is a 2 stage 10" filter that will easily mount to the wall. The unit uses a standard 3/4" garden hose water supply hookup. Ideal for organic horticulture as it will keep your beneficial bacteria, fungi, and micro-organisms from being killed by chlorinated water. It cleans 120 gallons per hour, uses 20" filters, and has a 7500 gallon filter life. Measures 11" x 24". Comes with a 1 year warranty.



## Big Boy

The Big Boy has a high flow rate of 7 gallons per minute or it cleans 420 gallons per hour, and can be used as a whole house filter or stand alone. It removes 99% of chlorine and 95%+ of sediment. Give your plants and family pure H<sub>2</sub>O with no offensive tastes or odors. Comes with a 1 year warranty.



Item	Description	MSRP
HLTB	Tall Boy - 2 GPM	\$183.95
HLTBCPF	Replacement Coconut Carbon Pre-Filter 20"	29.95
HLTBSF	Replacement Sediment Filter 20"	13.95

Item	Description	MSRP
HLBB	Big Boy - 7 GPM	\$434.95
HLBBCF	Replacement Carbon Filter 20"	62.95
HLBBSF	Replacement Sediment Filter 20"	54.95
HLBBHC	Hose Connection Kit	17.95

## Tall Blue

This pre-filter is specially designed for use with the Merlin Garden Pro for removal of 99% of chlorine and 90% of all sediments. It filters particulates down to 5 microns. It will extend the life of the Merlin prefilter by 3 times. They are essential for protecting the RO membranes allowing for much longer RO life. It measures 11" x 24". Comes with a 1 year warranty.



## Small Boy

The Small Boy eliminates 99% of chlorine and 90% of the sediment from your water. It is a 2 stage 10" filter that will easily mount to the wall. The unit uses a standard 3/4" garden hose water supply hookup. Ideal for organic horticulture as it will keep your beneficial bacteria, fungi and micro-organisms from being killed by chlorinated water. It will clean 60 gallons per hour and has a 3000 gallon filter life. Measures 11" x 14". Comes with a 1 year warranty.



Item	Description	MSRP
HLTBL	Tall Blue - 2 GPM	\$162.95
HLTBCPF	Replacement Coconut Carbon Pre-Filter 20"	29.95
HLTBSF	Replacement Sediment Filter 20"	13.95

Item	Description	MSRP
HLSB	Small Boy- 1 GPM	\$104.95
HLSCCF	Replacement Coconut Carbon Filter	15.95
HLBSBF	Small Boy Sediment Filter 10"	10.95

## Dechlorinator/Sediment Filters

	HYDRO-LOGIC PART NUMBER	PRODUCT WATER FLOW RATE*	REMOVES CHLORINE	REMOVES CHLORAMINES	REMOVES SEDIMENT & DIRT	INLET TUBING SIZE	PRODUCT TUBING SIZE	WASTE TUBING SIZE
BIG BOY	31005	420 GPH, 7 GPM	YES	PARTIALLY	YES	1" PORT	1" PORT	NONE**
TALL BLUE	31045	(pre-filter for Merlin-GP only)	YES	PARTIALLY	YES	3/8"	1/2"	NONE**
TALL BOY	31050	120 GPH, 2 GPM	YES	PARTIALLY	YES	3/8"	3/8"	NONE**
SMALL BOY	31030	60 GPH, 1 GPM	YES	PARTIALLY	YES	1/4"	1/4"	NONE**

# pH & TDS Test Equipment



## Milwaukee pH 600

Milwaukee's most affordable, full range pH meter with a range from 0.0 - 14.0 ph. Milwaukee's economical testers are easy-to-use and low cost instruments to measure quick and reliable pH, EC, or TDS values. Measuring electrical conductivity is the best way of checking the amount of salt or dissolved solids (TDS) in water. Milwaukee provides you with a range of pocket testers that will allow you to measure from very low to very high conductivity solutions. Batteries included.



Item	Description	MSRP
MTR-014	pH600 Meter . . . . .	\$31.95
CAL-2	pH 7.01 Calibration/Box of 25 Sachets . . . . .	21.95

## Refractometer

This revolutionary hand held refractometer lets you see exactly how plants are using nutrients. Put leaf scrapings on the sensor and read the results immediately; which reveal the percentage of sugar present in the sample.



Item	Description	MSRP
MTR-008	Hand Held Refractometer . . . . .	\$111.95

## Milwaukee Portable Meters

The Milwaukee series of EC, TDS (PPM), and pH Portable Meters are designed to allow you to monitor your nutrient solutions. They are all 9v battery operated for portability. The batteries last for approximately 300 hours. They feature replaceable probes with a 3 foot cable. The EC and TDS monitors have automatic temperature compensation. The TDS meter will measure from 0 to 1990 P.P.M. and the EC monitor will measure from 0.0 to 10.0 EC. They come with a two year warranty on the meter and a 6 month warranty on the probe. Calibration solutions for these monitors come in a box of 25 sachets.



## Milwaukee Waterproof Pens

The Milwaukee Waterproof Pen series of EC, TDS (PPM), and pH pens allow you to monitor your nutrient solution for best plant growth. They all feature replaceable electrodes for long life. They have automatic temperature compensation for accurate readings. The pH pen will measure from 0 to 14.0 pH. The pH pen can be calibrated at 7.01 and/or 4.01. The TDS pen will measure from 0 to 2000 P.P.M. The EC pen will measure from 0.00 to 10.0 EC. They have a 2 year warranty on the pen and 6 month warranty on the electrode. Each pen comes complete with 3 batteries.

Item	Description	MSRP
MTR-001	Milwaukee pH Waterproof Pen . . . . .	\$72.95
CAL-1	pH 4.01 Calibration/Box of 25 Sachets . . . . .	21.95
CAL-2	pH 7.01 Calibration/Box of 25 Sachets . . . . .	21.95
MTR-REPH	Replacement Electrode for pH Pen . . . . .	49.95
MTR-002	Milwaukee EC Waterproof Pen . . . . .	\$74.95
CAL-3	EC 1413 Calibration/Box of 25 Sachets . . . . .	21.95
MTR-REEC	Replacement Electrode for EC Pen . . . . .	68.95
MTR-003	Milwaukee TDS Waterproof Pen . . . . .	\$74.95
CAL-5	TDS 1382 Calibration/Box of 25 Sachets . . . . .	21.95
SSPH-001	Storage Solution (220 ml) . . . . .	\$9.95
BAT-LR44	Replacement Battery 10/card . . . . .	11.95

## pH-EC-TDS Meter

The Milwaukee 3 in 1 Meter is the Cadillac of meters. It measures pH, EC, and TDS (PPM) with one probe. PH is measured from 1-14, EC from 0-10, and TDS from 0-5000. Two year warranty on the meter, and a 6 month warranty on the probe. Replacement probes are also available. Calibration solutions are available below. You can use either the 1.413 solution for EC or the 1500 TDS solution. You do not need both because when you calibrate EC, the TDS is also calibrated, and vice-versa. Each meter comes with one 9 volt battery.



Item	Description	MSRP
MTR-007	Milwaukee 3 in 1 meter . . . . .	\$229.95
MTR-RP3	Replacement Probe, 3' Cable . . . . .	97.95
CAL-3	EC 1413 Calibration/Box of 25 Sachets . . . . .	21.95
CAL-4	TDS 1500 Calibration/Box of 25 Sachets . . . . .	21.95
SSPH-001	Storage Solution (220 ml) . . . . .	9.95

Item	Description	MSRP
MTR-009	Milwaukee pH Portable Meter . . . . .	\$104.95
CAL-1	pH 4.01 Calibration/Box of 25 Sachets . . . . .	21.95
CAL-2	pH 7.01 Calibration/Box of 25 Sachets . . . . .	21.95
MTR-RPPH	pH Replacement Probe, 3' Cable . . . . .	53.95
MTR-010	Milwaukee EC Portable Meter . . . . .	\$104.95
CAL-3	EC 1413 Calibration/Box of 25 Sachets . . . . .	21.95
MTR-RPEC	EC Replacement Probe, 3' Cable . . . . .	62.95
MTR-011	Milwaukee TDS Portable Meter . . . . .	\$104.95
CAL-5	TDS 1382 Calibration/Box of 25 Sachets . . . . .	21.95
SSPH-001	Storage Solution (220 ml) . . . . .	\$9.95

## Milwaukee Constant Monitoring Meters

This Milwaukee series of EC, TDS (PPM), and pH Constant Monitoring Meters are designed to constantly monitor your solutions. They all feature a removable 12 volt power supply, and replaceable probes with a 6 foot cable. They have a setpoint that is selected by turning a knob on the front to the desired pH or TDS level, and if your solution exceeds (on the pH meter) or is lower (on the TDS and EC meter) than your setpoint, the meter alarm light will turn on. The EC and TDS monitor have automatic temperature compensation. The TDS meter will measure from 0 to 1990 P.P.M. and the EC monitor will measure from 0.0 to 10.0 EC. They come with a two year warranty on the meter and a 6 month warranty on the probe.

Item	Description	MSRP
<b>MTR-004</b>	Milwaukee pH Constant Monitor Meter . . . . .	<b>\$114.95</b>
<b>MTR-RPPH</b>	6' Replacement Probe for pH Constant Monitor Meter . . . . .	<b>53.95</b>
<b>CAL-1</b>	pH 4.01 Calibration/Box of 25 Sachets . . . . .	<b>21.95</b>
<b>CAL-2</b>	pH 7.01 Calibration/Box of 25 Sachets . . . . .	<b>21.95</b>
<b>MTR-005</b>	Milwaukee EC Constant Monitor Meter . . . . .	<b>119.95</b>
<b>CAL-3</b>	EC 1413 Calibration/Box of 25 Sachets . . . . .	<b>21.95</b>
<b>MTR-006</b>	Milwaukee TDS Constant Monitor Meter . . . . .	<b>122.95</b>
<b>CAL-5</b>	TDS 1382 Calibration/Box of 25 Sachets . . . . .	<b>21.95</b>
<b>SSPH-001</b>	Storage Solution (220 ml) . . . . .	<b>\$9.95</b>



## HM Digital Pens and Meters

The HMTDSEZ Water Quality Tester is ideal for all basic water testing applications. The best value meter in the world! Fun, translucent blue housing is very strong and durable. Includes a TDS chart sticker on the back of the meter that explains TDS values.

HMTDS4 Pocket-Size Meter is the smallest and lightest TDS meter on the market. Saves measurements for convenient reading and recording and the meter shuts off automatically after 10 minutes of non-use to conserve batteries. Includes a cap, batteries, lanyard, and pH 7.0 buffer. 3 year warranty.

The HMTDST Pocket-Size Meter with Digital Thermometer includes an internal digital thermometer (celsius). Recommended for aquariums & aquaculture, horticulture & hydroponics, pools & spas, and water cooler professionals.

Item	Description	MSRP
<b>HMTDS4</b>	TDS-4 Pocket-Size Meter . . . . .	<b>\$31.95</b>
<b>HMTDST</b>	TDS Meter w/Thermometer . . . . .	<b>34.95</b>
<b>HMTDSEZ</b>	TDS-EZ Water Quality Tester . . . . .	<b>26.95</b>



HMTDS4

HMTDST

HMTDSEZ

## Hanna® Waterproof Pens

Hanna Instruments offer the most advanced pens on the market today. The pHep4 pH/Temperature Waterproof Pen has a .01 ph resolution. The Dist5 EC/TDS Pen is unmatched in EC/TDS/Temperature measurement. The Combo pH/EC/TDS/Temperature Pen offers highly advanced accuracy with a single tester. All Hanna Instruments pens offer replaceable graphite electrode, temperature in °C or °F, automatic temperature compensation with adjustable battery level indicator, stability indicator, automatic shut-off, and automatic calibration all in a floating waterproof casing. Batteries included.

Item	Description	MSRP
<b>HIMTR-001</b>	pH/Temperature Waterproof Pen (pHep4 Meter). . . . .	<b>\$109.95</b>
<b>HIMTR-REPH</b>	Replacement Electrode for pH Pen . . . . .	<b>57.95</b>
<b>HIMTR-002</b>	EC/TDS/Temperature Waterproof Pen (Dist5 Meter). . . . .	<b>\$124.95</b>
<b>HIMTR-REEC</b>	Replacement Electrode for EC/TDS Pen . . . . .	<b>66.95</b>
<b>HIMTR-003</b>	pH/EC/TDS/Temperature Waterproof Pen (Combo Meter). . . . .	<b>\$194.95</b>
<b>HIMTR-RE3</b>	Replacement Electrode for pH/EC/TDS Pen . . . . .	<b>56.95</b>
<b>BAT-LR44</b>	Replacement Battery 10/cards . . . . .	<b>11.95</b>





# pH & TDS Test Equipment

## Hanna Solutions

Hanna Solutions help keep your customer's meters in good working order. Solutions are compatible with most testers and come in FDA-approved opaque bottle to prevent light from damaging the solutions.



Item	Description	MSRP
HICAL-001	pH 7.01 Calibration Sol., 16oz	\$17.95
HICAL-002	pH 4.01 Calibration 16oz	17.95
HICAL-003	EC 1413 Calibration 460 ml	17.95
HICAL-006	TDS 1500 Calibration 460 ml	17.95
HICAL-007	TDS 1382 Calibration 460 ml	17.95
HICAL-004	Electrode Storage Sol. 460 ml	17.95
HICAL-005	Electrode Cleaning Sol. 460 ml	18.95

Hanna Solution Sachets	MSRP
HICAL-001S 1500 PPM 25°C Cal. Sol. 25x20ml/25 Sach.	\$1.29
HICAL-002S pH 4.01 Calibration Sol. 25x20ml/25 Sach.	1.29
HICAL-003S pH 7.01 Calibration Sol. 25x20ml/25 Sach.	1.29
HICAL-004S 12.88 µ s/cm (EC) Cal. Sol. 25x20ml/25 Sach.	1.29
HICAL-005S 1413 µ s/cm (EC) Ca. Sol. 25x20ml/25 Sach.	1.29
HICAL-006S 1382 PPM @ 25°C Cal. Sol. 25x20ml/25 Sach.	1.29

## Hanna Continuous pH/TDS/Temperature Meter

Designed for Continuous Monitoring of pH, TDS, and Temperature. It is simple to install and can be placed above the sample to be tested. pH, TDS, and temperature measurements are simultaneously displayed on three backlit LCD's which can be easily viewed at a distance - even in low light. This means no more switching between parameters.



Item	Description	MSRP
HIMTR-007	Hanna pH/TDS/Temperature meter	\$244.95

## Hanna pH/EC/TDS Meter

The HI3M is a rugged all around waterproof meter for easy pH/EC/TDS measurements. The HI3CM has all the popular features of the HI3M and will also display °C with the press of a button. The HI3CM has an added Cal-Check feature that can assess the calibration status of the specialized probe in seconds. Accuracy is ensured with ATC and an advanced sensor which completely eliminates polarization and oxidation problems. Comes with probe, battery, calibration, cleaning, and Cal-Check solutions.

Item	Description	MSRP
HIMTR-004	Hanna pH/EC/TDS meter.	\$244.95
HIMTR-RP3	Replacement Probe for pH/EC/TDS	124.95
HIMTR-005	Hanna pH/EC/TDS Meter w/Cal Check	264.95
HIMTR-RP4	Replacement Probe for pH/EC/TDS w/Cal Check	123.95

## Primo Conductivity & TDS Testers

The Primo TDS tester provides a fast and dependable way to measure the Total Dissolved Solids in your water samples. It is ideally suited for the rigorous demands of water quality professionals, who will appreciate the practicality of Primo's easy-to-read LCD when demonstrating the before and after results of conditioning and filtration systems. Temperature is compensated automatically to ensure the readings are consistent to the standard or reference temperature.



Item	Description	MSRP
HIPRIMO	Conductivity & TDS Tester	\$19.49

## Gro'Chek PH/EC Meter Wall Mount

This meter is ideal for agricultural, horticultural, and hydroponic applications where pH and EC levels need to be continuously monitored for optimal plant growth. This wall-mount meter features a large, easy-to-read LCD that displays pH and EC readings simultaneously.



GRO'CHEK®

Item	Description	MSRP
HIMTR-006	Gro'Chek Combo pH/EC Wall Mount.	\$194.95





# NUTRIENTS



MASSIVE  
BLOOM STIMULATOR





## HOW MUCH AND WHAT KIND OF NUTRIENTS DO I NEED?

The daunting task of choosing one regimen over another is often punctuated with a “use this, don’t use that” reply. The truth is all nutrients have their place when applied and used correctly. The problem lies in the misunderstanding of the products' intended purpose.

With that said, some broad advice is as follows:

- Generally speaking, high Nitrogen (N) ratio products are best used for vegetative growth while high Phosphorus (P) and Potassium (K) ratios products are commonly reserved for the blooming stage.
- Finishing solutions are often composed of simple and complex sugars designed to help fuel the blooming process and increase brix levels and essential oil production.
- Humic Acid compounds aid in the assimilation of certain nutrients and may be beneficial in alleviating plant stress.
- Mycorrhizae, beneficial bacteria and natural enzymatic amendments may be exceptionally useful in “digesting” macromolecules into more bio-available forms, but their use comes at a cost. Your reservoir environment must be suitable for their existence (moderate temperature and aeration) and their presence and activity must be fully understood or pH levels may become unstable.
- Compost teas and other organically derived additives often appear to have much higher NPK concentration ratios than their synthetic counterparts, however their overall effectiveness is generally not diminished.





# CHOOSING THE RIGHT NUTRIENT FOR YOUR SYSTEM

- When choosing a nutrient it is important to thoroughly understand the hydroponic system you will be using so that a proper match can be made. It is often thought that nutrients are “universal” and work well in all environments and systems. This is not the case and operating under that assumption is reckless and cost prohibitive. Most nutrients have a “system sweet spot” and when used in an appropriate system these products will perform optimally.
- In general hydroponic systems prefer a fully synthetic nutrient for overall ease of use. Organic nutrients are exceptionally effective at producing beautiful plants but due to their raw biological makeup they can become unstable and temperamental in highly oxygenated environments. This instability can be mitigated by ensuring that your the pH is correct, temperature of the reservoir solution stays cool and there is a established thriving beneficial bacteria colony to help breaking down larger



- macro molecule and to fend off pathogens.
- Most organic nutrients are designed specifically for soil therefore it should not be surprising to learn that some of the best-documented results obtained in soil or soilless mix resulted from the use of organic nutrients. Organic nutrients by definition are not derived synthetically and at one point the components that constitute the formulation were living or the by-product of a living source. Soil acts as a “botanical pantry” for the plants as the residence time of nutrients in soil-based systems is exponentially longer to that of a hydroponic system utilizing hydroton.
- It is also important to be vigilant with regards to soluble salt buildup and nutrient lockout in both types of system and when diagnosed early can be easily addressed. It is also important to note that this is not a situation where “if a little is good a lot must be better. Try to keep your PPM values as low as possible without adversely effect the overall growth and structure of the plant. This technique will often lead to a better tasting higher quality end product with substantially less flushing.

## B.C Hydroponic Nutrients

Grow (1-3-6), Bloom (1-4-7), Boost (3-0-2)  
3 Part Nutrient

B.C Hydroponic Nutrients are a power-packed trio for nurturing generous vegetative crops and extraordinary floral growth. B.C Grow, B.C Bloom, and B.C Boost are complete, professionally formulated, highly concentrated fertilizing agents. Unlike other brands, which include micro-nutrients in only one part of the formula, both B.C Grow and B.C Bloom contain a full complement of micro-nutrients, which are bolstered by the added calcium and iron in B.C Boost.

B.C Hydroponic Nutrients bring a balance of nutrients in proper form, assuring matchless growth and maximum yield. Minimal pH drift is also assured, eliminating the need for constant adjustments. Growers can greatly reduce cleaning time and expenditure, as Technaflora's B.C Hydroponic Nutrients allow minimal salt build-up. This remarkable three-part fertilizer is easy to mix and control, with simple to follow instructions printed on every label.



B.C Grow	MSRP
BCGRQT 1 Liter . . . . .	\$17.95
BCGRGA 4 Liters . . . . .	36.95
BCGR2G 10 Liters . . . . .	82.95
BCGR5G 20 Liters . . . . .	130.95
BCGR20G 65 Liters . . . . .	370.95
BCGR55G 205 Liters . . . . .	1,110.95

B.C Bloom	MSRP
BCBLQT 1 Liter . . . . .	\$17.95
BCBLGA 4 Liters . . . . .	36.95
BCBL2G 10 Liters . . . . .	82.95
BCBL5G 20 Liters . . . . .	119.95
BCBL20G 65 Liters . . . . .	370.95
BCBL55G 205 Liters . . . . .	1,110.95

B.C Boost	MSRP
BCBOQT 1 Liter . . . . .	\$21.95
BCBOGA 4 Liters . . . . .	40.95
BCBO2G 10 Liters . . . . .	90.95
BCBO5G 20 Liters . . . . .	162.95
BCBO20G 65 Liters . . . . .	480.95
BCBO55G 205 Liters . . . . .	1,480.95

## Pura Vida

Grow (6-4-3), Bloom (2-6-6),

Pura Vida Grow & Bloom, are unique fertilizers that provide plants with a balanced and available nutrient supply in a pure natural form suitable for use in hydroponic, soil, and soilless based gardening mediums without the fear of irrigation line clogging and the nasty smells associated with other brands. Formulated from various plant materials and subjected to a fermentation process, Pura Vida Grow & Bloom contain sufficient organic nitrogen (N), phosphorous (P) and potassium (K), along with essential micro nutrients to sustain rapid, aggressive growth during the vegetative stage and to produce abundant fragrant flowers and mature fruits during the flowering/fruiting stages.



Item	Description	MSRP
BCPGQT	Pura Vida Grow 1 Liter . . . . .	\$29.95
BCPGGA	Pura Vida Grow 4 Liters . . . . .	59.95
BCPG2G	Pura Vida Grow 10 Liters . . . . .	136.95
BCPG5G	Pura Vida Grow 20 Liters . . . . .	240.95
BCPG55G	Pura Vida Grow 65 Liters . . . . .	2,089.95
BCPBQT	Pura Vida Bloom 1 Liter . . . . .	\$29.95
BCPBGA	Pura Vida Bloom 4 Liters . . . . .	59.95
BCPB2G	Pura Vida Bloom 10 Liters . . . . .	136.95
BCPB5G	Pura Vida Bloom 20 Liters . . . . .	240.95
BCPB55G	Pura Vida Bloom 65 Liters . . . . .	2,089.95

## Thrive Alive B-1

Supplement (1-1-1)

Thrive Alive B-1 (1-1-1) stimulates rapid and lush vegetative growth, and will ensure the success of floral crops by promoting profuse flowering during blossoming. Its professionally balanced formulation contains vitamins, hormones, macro, and micro nutrients, which are cultured in premium quality British Columbian sea kelp. Thrive Alive is safe and easy to use for both hydroponic and soil applications (½ tsp per gallon). Thrive Alive B-1 is available in two concentrated formulas: Thrive Alive B-1 **Green** is natural and organic and Thrive Alive B-1 **Red** Label is fortified with mineral salt nutrients.



Item	Description	MSRP
BCTAR250	B-1 Red 250 ml. . . . .	\$17.95
BCTAR500	B-1 Red 500 ml. . . . .	30.95
BCTARQT	B-1 Red 1 Liter . . . . .	44.95
BCTARGA	B-1 Red 4 Liters . . . . .	138.95
BCTAR2G	B-1 Red 10 Liters . . . . .	312.95
BCTAR5G	B-1 Red 20 Liters . . . . .	574.95
BCTAG250	B-1 Green 250 ml. . . . .	\$19.95
BCTAG500	B-1 Green 500 ml. . . . .	32.95
BCTAGQT	B-1 Green 1 Liter . . . . .	44.95
BCTAGGA	B-1 Green 4 Liters . . . . .	152.95
BCTAG2G	B-1 Green 10 Liters . . . . .	319.95
BCTAG5G	B-1 Green 20 Liters . . . . .	582.95

## Recipe For Success Starter Kit

This is ideal for both the new and experienced gardener. This self-contained package of exceptional products includes everything required to set you on the right course for gardening success. The Recipe for Success Starter Kit consists of pints of B.C Bloom, B.C Boost, B.C Grow, 100 ml bottles of Thrive Alive B-1 Red, Thrive Alive B-1 Green, Awesome Blossoms, a small Rootech Cloning Gel, and the famous Recipe for Success mixing chart.



Item	Description	MSRP
<b>BCRSKIT</b>	Recipe for Success Starter Kit . . . . .	<b>\$34.95</b>

## Awesome Blossoms

### Bloom Stimulant (2-11-11)

Awesome Blossoms is a scientifically blended superior flower stimulant designed to nurture prolific and bold blooms in all your flowering plants. This ultra-fertilizing tincture of super phosphates is formulated with micro elements and humic acids, stimulating dense, vigorous flowering. Awesome Blossoms facilitates a crowning effect with new blossoms emerging from within existing flowers. An exceptional, concentrated liquid elixir, it promotes robust, explosive essential oil production, maximizing overall crop weight, and amplifying aroma and flavor in all flowering and fruiting plants. For use in both soil and soilless systems.



Item	Description	MSRP
<b>BCAB250</b>	Awesome Blossoms 250 ml . . . . .	<b>\$10.95</b>
<b>BCABQT</b>	Awesome Blossoms 1 Liter . . . . .	<b>36.95</b>
<b>BCABGA</b>	Awesome Blossoms 4 Liter . . . . .	<b>110.95</b>
<b>BCAB2G</b>	Awesome Blossoms 10 Liter . . . . .	<b>239.95</b>
<b>BCAB5G</b>	Awesome Blossoms 20 Liter . . . . .	<b>460.95</b>

## Rootech Cloning Gel

A premium formulation of hormones, vitamins, and nutrients, for promoting rapid, healthy root development for clones. A thick gel that adheres to the plant cutting throughout the rooting phase, sealing cut tissue immediately and reducing the risk of infection. Comes in a ready-to-use, wide-lid container, into which several cuttings can be dipped at the same time, without fear of tipping. Contains .55% Indole 3 Butyric Acid.



Item	Description	MSRP
<b>BCRT25</b>	Cloning Gel 7 gm . . . . .	<b>\$2.95</b>
<b>BCRT2</b>	Cloning Gel 2 oz. . . . .	<b>16.95</b>
<b>BCRT4</b>	Cloning Gel 4 oz. . . . .	<b>27.95</b>
<b>BCRT8</b>	Cloning Gel 8 oz. . . . .	<b>46.95</b>
<b>BCRT28</b>	Cloning Gel 28 oz. . . . .	<b>160.95</b>
<b>BCRTGA</b>	Cloning Gel 4 Liter . . . . .	<b>460.95</b>
<b>BCRT5G</b>	Cloning Gel 20 Liter . . . . .	<b>1,850.95</b>

## MagiCal

### Supplement (2-0-0)

MagiCal is a highly enriched formulated blend of Magnesium, Calcium, and Iron, that promotes vigorous and healthy plant growth for both soil and soilless gardens. Incorporated in your regular feeding program MagiCal increases flower bud absorption and improves the nutritional quality of plants while correcting nutrient related plant deficiencies such as blossom end rot. MagiCal also accelerates protein syntheses, maintains high starch content in crops, improves the density of fruit and the production of essential oils, creates lush and greener foliage, and maintains a healthy root system.



Item	Description	MSRP
<b>BCMCQT</b>	MagiCal 1 Liter . . . . .	<b>\$15.95</b>
<b>BCMCGA</b>	MagiCal 4 Liter . . . . .	<b>56.95</b>
<b>BCMC2G</b>	MagiCal 10 Liter . . . . .	<b>135.95</b>
<b>BCMC5G</b>	MagiCal 20 Liter . . . . .	<b>245.95</b>



## B. Seaweed

### Supplement (0-0-1)

B. Seaweed is an optimal growth stimulant for all your plants. Technaflora's exceptional liquid extract is made from 100% pure, organic British Columbia kelp (*Macrocystis integrifolia*). Sea kelp is the source of more than 60 nutrients, vitamins, and hormones that support and strengthen hearty, thriving plants. In addition, sea kelp aids in the absorption of nutrients from the soil. B. Seaweed is an aggressive, organic way for growers to supplement their regular feeding programs. For hydroponics or soil.



Item	Description	MSRP
BCSWPT	B. Seaweed 500 ml . . . . .	\$21.95
BCSWQT	B. Seaweed 1 Lite . . . . .	41.95
BCSWGGA	B. Seaweed 4 Liter . . . . .	137.95

## Root 66

### Supplement (1-1-1)

Root 66 is an organic based nutrient blend comprised of seaweed extract, trace elements, and disaccharides. The unique composition of Root 66 promotes the development of a well balanced root structure, which is a vital component of overall plant growth and performance. At transplanting, Root 66 improves the establishment of seedlings and cuttings by stimulating adventitious root development. Root 66 can be applied to soil, soilless, and hydroponic based gardening mediums and can be used in conjunction with any premium quality fertilizer.



Item	Description	MSRP
BCR66250	Root 66 250 ml . . . . .	\$22.95
BCR66QT	Root 66 1 Liter . . . . .	80.95
BCR66GA	Root 66 4 Liter . . . . .	295.95
BCR662G	Root 66 10 Liter . . . . .	710.95

## Liquid Humus

Liquid Humus is a good source of concentrated essential nutrients, vitamins, and trace elements. Technical humic acids aid plants to best utilize the vitamin and nutrient benefits of a complete feeding program. These complex molecules are formed as organic matter decays, and occur naturally in soils, peat, oceans, and fresh waters. Liquid Humus is a solution of 15% technical humic acids extracted as salts from a soft coal called Leonardite. Humic acids are able to chelate metals, notably iron, facilitating easier absorption by plants. Liquid Humus increases the permeability of plant membranes and the buffering capabilities of the medium, promoting the uptake of nutrients. Excellent for use in both hydroponic and soil environments.

Item	Description	MSRP
BCLH500	Liquid Humus 500 ml . . . . .	\$21.95
BCLHQT	Liquid Humus 1 Liter . . . . .	41.95
BCLHGA	Liquid Humus 4 Liter . . . . .	125.95
BCLH2G	Liquid Humus 10 Liter . . . . .	263.95

## Sugar Daddy

### Carbohydrate Supplement

During the seedling stage Sugar Daddy rapidly accelerates sprout growth and prepares plants for transplanting. During the vegetative stage, Sugar Daddy promotes strong plant structure which is a critical precursor to final yield success. Sugar Daddy fosters healthy stage progression by limiting detrimental transition related stressors. Further, the lower nitrogen levels often found in flowering stage fertilizers are overcome by the use of Sugar Daddy as carbohydrate, protein, and fatty acid synthesis help achieve vigorous growth rates.



Item	Description	MSRP
BCSDQT	Sugar Daddy 1 Liter . . . . .	\$25.95
BCSDGA	Sugar Daddy 4 Liter . . . . .	78.95
BCSD2G	Sugar Daddy 10 Liter . . . . .	175.95
BCSD5G	Sugar Daddy 20 Liter . . . . .	330.95

## Liquid pH Adjustment

pH Up and pH Down enables the gardener to moderate and maintain optimum pH levels. Both pH-balancing aids are manufactured using the highest-quality ingredients: potassium hydroxide to raise pH, and nitric acid to lower pH. While ensuring stringent industry safety standards are met, Technaflora's pH Up and pH Down are potent and effective in small doses.



Item	Description	MSRP
BCUPQT	pH Up 1 Liter . . . . .	\$10.95
BCUPGA	pH Up 4 Liter . . . . .	21.95
BCUP2G	pH Up 10 Liter . . . . .	41.95
BCDNQT	pH Down 1 Liter . . . . .	10.95
BCDNGA	pH Down 4 Liter . . . . .	21.95
BCDN2G	pH Down 10 Liter . . . . .	41.95





# One Easy To Master Recipe!

# RECIPE for SUCCESS

## Mixing Chart

### CUTTING STAGE



Pre-soak the medium (*soil, peat, rockwool cubes, etc.*) with a solution of **Thrive Alive B-1 Red**.  
**Mix 12.5 ml (2½ tsp) of Thrive Alive B-1 Red into 4 litres (1 gallon) of water to prepare the solution.**

Immerse the end of each cutting into **Rootech Cloning Gel** for a few seconds and immediately insert into the prepared medium.

### SEEDLING AND TRANSPLANTING STAGE



During the next 7 days while cuttings develop their roots, spray the foliage once with **Thrive Alive B-1 Green** solution.  
**Mix 20 ml (4 tsp) of Thrive Alive B-1 Green into 4 litres (1 gallon) of water to prepare the solution.**

Once cuttings have a well established root system and before transplanting, spray plants with a solution of **ROOT 66** and **SugarDaddy** to stimulate strong root development and to produce lush vegetative growth.

**Mix 10 ml (2 tsp) of both SugarDaddy and ROOT 66 into 4 litres (1 gallon) of water to prepare the solution.**

After 2 to 3 days of transplanting, apply **ROOT 66** to induce aggressive root development and to reduce transplanting related stressors.

**Mix 20 ml (4 tsp) of ROOT 66 into 4 litres (1 gallon) of water to prepare the solution.**

### VEGETATIVE STAGE

**LIGHT CYCLE: 18/6 ~ ON/OFF**



Once the cuttings have established root systems, they are ready to begin vegetative growth on an 18-hour light cycle. Changing your reservoir once weekly, apply the following **VEGETATIVE** formula each week consistently throughout the vegetative cycle until plants reach your desired height.

**Mix the following nutrients into 4 litres (1 gallon) of water to create the VEGETATIVE formula.**

**B.C Boost** – 15 ml (3 tsp)  
**B.C Grow** – 7.5 ml (1½ tsp)  
**Thrive Alive B-1 Red** – 2.5 ml (½ tsp)  
**MagiCal** – 2.5 ml (½ tsp)  
**SugarDaddy** – 10 ml (2 tsp)

**ALWAYS ADD BOOST FIRST**

pH of this solution = 6.08 and EC = 2.0 ms/s  
 (If not, adjust pH to 5.8 - 6.2) (ppm = 1100)

- For *soil/soilless mediums*, use this solution in the sequence of **FEED, WATER, WATER, FEED** throughout the vegetative cycle.
- For *hydroponic mediums*, the solution can be fed with every irrigation cycle.

### FLOWERING STAGE

**LIGHT CYCLE: 12/12 ~ ON/OFF**



Once sufficient vegetative growth has been achieved, induce reproductive growth on a 12-hour light cycle. Changing your reservoir once weekly, apply the **FLOWERING** formula each week throughout the flowering or reproductive life of your plants.

**Mix the following nutrients into 4 litres (1 gallon) of water to create the FLOWERING formula.**

**B.C Boost** – 15 ml (3 tsp)  
**B.C Bloom** – 15 ml (3 tsp)  
**Awesome Blossoms** – 2.5 ml (½ tsp)  
**Thrive Alive B-1 Red** – 2.5 ml (½ tsp)  
**MagiCal** – 2.5 ml (½ tsp)  
**SugarDaddy** – 12.5 ml (2½ tsp)

**ALWAYS ADD BOOST FIRST**

pH of the solution = 6.02 and EC = 2.6 ms/s  
 (If not, adjust pH to 5.8 - 6.2) (ppm = 1430)

- For *soil/soilless mediums*, use the formula in the sequence of **FEED, WATER, WATER, FEED** throughout the flowering cycle.
- For *hydroponic mediums*, the solution can be fed with every irrigation cycle.

### PRE HARVEST STAGE



During the final 7 days of flowering apply the following feeding program. This will increase the firmness and the potency of flavour by enhancing the production of essential oils.

★ First 3 days apply the following **PRE HARVEST** formula.

★ Final 4 days flush with pH adjusted water.

**Mix the following nutrients into 4 litres (1 gallon) of water to create the PRE HARVEST formula.**

**MagiCal** – 2.5 ml (½ tsp)      **SugarDaddy** – 40 ml (8 tsp)

- For *soil/soilless mediums*, use the formula in the sequence of **FEED, WATER, WATER, FEED**.
- For *hydroponic mediums*, the solution can be fed with every irrigation cycle.

## Buddha Grow & Bloom

(Grow 2-.05-1.5) Bloom (0.5-2-1.5)

### Base Nutrient

Buddha Grow is a proprietary blend of the finest natural ingredients, specifically created to promote vigor, increase yields, and enhance quality in soil grown plants during the vegetative stage of their life. Worldwide sourcing and deliberate design extracted and condensed into an exceptional liquid blend targeted to encourage excellence from your plants.

Buddha Bloom is a proprietary blend of the finest natural ingredients specifically created to promote vigor, increase yields, and enhance quality in soil grown plants during the flowering stage of their life. Worldwide sourcing and deliberate design extracted and condensed into an exceptional liquid blend targeted to encourage excellence from your plants. Derived from: Bat Guano, Worm Castings, Langbeinite, Soy Protein Hydrolysate, Kelp Extract (*Ascophyllum Nodosum*), Molasses, and Yucca Extract.



Item	Description	MSRP
ROBGQT	Buddha Grow Quart. . . . .	\$15.95
ROBGA	Buddha Grow Gallon . . . . .	44.95
ROBG2G	Buddha Grow 2½ Gallon . . . . .	94.95
ROBG5G	Buddha Grow 5 Gallon . . . . .	197.95

Item	Description	MSRP
ROBBQT	Buddha Bloom Quart. . . . .	\$15.95
ROBBGA	Buddha Bloom Gallon . . . . .	44.95
ROBB2G	Buddha Bloom 2½ Gallon . . . . .	94.95
ROBB5G	Buddha Bloom 5 Gallon . . . . .	197.95

## Trinity

### Catalyst

A catalyst that activates cell division and provides more nutrient uptake in growth and bloom. A complex 100% organic blend of amino acids, carbohydrates, enzymes, vitamins, phyto-hormones, and minerals stimulates the production of essential oils, produces larger flowers, fruits and vegetables. Use in conjunction with your favorite plant nutrient for increased yield, flavor, and quality. For use in hydroponics and soil.



## Ancient Amber

### Humic Bio Stimulant

Organic premium grade fulvic acid strengthens plants immunity and increases their resistance to stress. Use as a foliar feed in growth and bloom and in soil or hydroponics for increased nutrient uptake.



Item	Description	MSRP
ROTRQT	Trinity Quart . . . . .	\$24.95
ROTRGA	Trinity Gallon . . . . .	65.95
ROTR2G	Trinity 2½ Gallon . . . . .	149.95
ROTR5G	Trinity 5 Gallon . . . . .	279.95

Item	Description	MSRP
ROAAQT	Ancient Amber Quart. . . . .	\$17.95
ROAAGA	Ancient Amber Gallon . . . . .	44.95
ROAA2G	Ancient Amber 2½ Gallon . . . . .	91.95
ROAA5G	Ancient Amber 5 Gallon . . . . .	147.95

## Extreme Serene

### (2-1-6) Liquid Kelp

100 % organic marine algae extract that increases internodal sites and encourages large flowers packed with amino acids and carbohydrates. For use in hydroponics and soil. Apply as a foliar feed or water in to roots.



## HP2

### (0-4-0) Bloom Stimulator

Organic high phosphorus bat guano extract that improves yields, flavor, and quality in fruiting and flowering plants. Use as a bloom booster with any nutrient program for use in hydroponics and soil.



Item	Description	MSRP
ROESQT	Extreme Serene Quart . . . . .	\$31.95
ROESGA	Extreme Serene Gallon . . . . .	89.95
ROES2G	Extreme Serene 2½ Gallon . . . . .	211.95
ROES5G	Extreme Serene 5 Gallon . . . . .	399.95

Item	Description	MSRP
ROHPQT	HP2 Quart . . . . .	\$15.95
ROHPGA	HP2 Gallon . . . . .	44.95
ROHP2G	HP2 2½ Gallon . . . . .	104.95
ROHP5G	HP2 5 Gallon . . . . .	197.95



## HPK

### (0-5-4) Bloom Stimulator

Organic high phosphorus bat guano extract combined with K-mag for potassium. HPK will greatly increase yields in fruiting and flowering plants. Stimulates flavors and improves fruit and flower quality. Organic PK booster for soil and hydroponics.



## Oregonism XL

A distinctive super-soluble formulation of endo/ecto-mycorrhizae, beneficial bacteria, and Trichoderma. The species of microorganisms in our product are specifically selected for fruiting and flowering plants with a tolerance to heavy fertilizing. Oregonism XL is incredibly versatile and effective in soil and hydroponics.



Item	Description	MSRP
ROHPKQT	HPK Quart .....	\$17.95
ROHPKGA	HPK Gallon .....	47.95
ROHPK2G	HPK 2½ Gallon .....	109.95
ROHPK5G	HPK 5 Gallon .....	209.95

Item	Description	MSRP
ROOX4	Oregonism XL 4 oz .....	\$19.95
ROOX8	Oregonism XL 8 oz .....	29.95
ROOX1	Oregonism XL 1 lb. ....	54.95
ROOX3	Oregonism XL 3 lb. ....	144.95
ROOX6	Oregonism XL 6 lb. ....	259.95



THIS SCHEDULE IS A GENERAL GUIDELINE FOR SOIL AND SOILESS GARDENING

SOIL : alternate usage between water and fertilizer

ALL MEASUREMENTS ARE PER GALLON

OUTDOOR / LONG CROP	seedlings	beginning veg	middle veg	mature veg	beginning flower	hard flowering	final phase	flush
INDOOR / SHORT CROP		1 <sup>st</sup> week	2 <sup>nd</sup> week	3 <sup>rd</sup> - 4 <sup>th</sup> week	5 <sup>th</sup> - 8 <sup>th</sup> week	9 <sup>th</sup> - 11 <sup>th</sup> week	12 <sup>th</sup> week	13 <sup>th</sup> week

#### PRODUCT

BUDDHA GROW	5ml	10ml	15ml	20ml	10ml	10ml		
BUDDHA BLOOM					15ml	25ml	25ml	
EXTREME SERENE	5ml	10ml	10ml	10ml	10ml			
TRINITY	5ml	10ml	15ml	15ml	15ml	15ml	15ml	5ml
ANCIENT AMBER	5ml	10ml	15ml	15ml	15ml	15ml	15ml	none
HP <sup>2</sup>					20ml	30ml	30ml	none
HPK					10ml	10ml	10ml	none

OREGONISM OR  
OREGONISMXL –  
30ml (dry) per quart of  
water top drench solution  
into plants roots system

TREAT  
per directions

TREAT  
per directions

TREAT  
per directions

#### FOLIAR APPLICATION

Don't use together.  
Alternate between  
products as part of your  
weekly foliar program.

EXTREME SERENE	10ml / gal	20ml / gal	20ml / gal	20ml / gal				
ANCIENT AMBER	10ml / gal	20ml / gal	20ml / gal	20ml / gal	20ml / gal			

ALL MEASUREMENTS ARE PER GALLON

CONVERSION CHART	5ml	3 teaspoons	1 tablespoon	30ml	8oz	5ml / gal	15ml / gal
	1 teaspoon	1 tablespoon	15ml	1oz	1 cup	approx 750:1 dilution	approx 250:1 dilution

When introducing a new fertilizer to your program, start slow and increase levels gradually to insure compatability and avoid fertilizer excess.  
If you don't notice benefits in your harvest from any product you are using, whether ours or another companies, then don't use it.

FEEDING SCHEDULE



## Nutrifield® NF Coco A + B Nutrient

Nutrifield NF Coco A + B Nutrients are superior two part nutrient solutions specifically designed to be used throughout grow and bloom in Nutrifield NF Premium Coco. They provide all the essential macro, secondary, and micro elements required for your plants, to ensure rapid growth and improved yields. Nutrifield NF Coco is high in Calcium, which is an essential element for cell wall structure and contains Silica to insulate against wilting and to improve drought tolerance. Nutrifield NF Coco is also packed with humic and fulvic acid, natural plant stimulants, amino acids, enzymes, and a number of other important organic additives.

Item	Description	MSRP
NFCOAQT	NF Coco A 1 Liter	\$10.95
NFCOAGA	NF Coco A 5 Liter	28.95
NFCOA5G	NF Coco A 20 Liter	99.95

Item	Description	MSRP
NFCOBQT	NF Coco B 1 Liter	\$10.95
NFCOBGA	NF Coco B 5 Liter	28.95
NFCOB5G	NF Coco B 20 Liter	99.95

## Nutrifield Elements Grow and Bloom

The new Nutrifield Elements is a premium 4 part nutrient specifically optimized for Grow (2 parts) and Bloom (2 parts). Nutrifield Elements is the by-product of an extensive 2 year research program that was undertaken to improve the key stages in a plant's development. The key factors from this study helped identify early root development stimulants for Nutrifield Elements Grow to ensure an accelerated vegetative growth boost and an increase in cell division. While Nutrifield Elements Bloom ensures an impact on fruit and flower maturation, flavor, and hardening. The new formula will achieve optimum results with Nutrifield Hydro Clay, as well as rockwool, vermiculite, and perlite. It has been scientifically formulated using chelated pharmaceutical grade salts. Nutrifield Elements contains each of the 16 key macro, secondary and micro elements required for plant nutrition and is enriched with amino acids, enzymes, and natural plant stimulants to deliver high performance in your growing medium.



Item	Description	MSRP
NFEGAQT	Elements Grow A 1 Liter	\$10.95
NFEGAGA	Elements Grow A 5 Liter	28.95
NFEGA5G	Elements Grow A 20 Liter	99.95

Item	Description	MSRP
NFEBAQT	Elements Bloom A 1 Liter	\$10.95
NFEBAGA	Elements Bloom A 5 Liter	28.95
NFEBA5G	Elements Bloom A 20 Liter	99.95

NFEBBQT	Elements Grow B 1 Liter	\$10.95
NFEBBGA	Elements Grow B 5 Liter	28.95
NFEBB5G	Elements Grow B 20 Liter	99.95

NFEBBQT	Elements Bloom B 1 Liter	\$10.95
NFEBBGA	Elements Bloom B 5 Liter	28.95
NFEBB5G	Elements Bloom B 20 Liter	99.95

## Chart is per gallon

Chart is per gallon			GROW			FLOWER							
Rec EC			WEEK 1 0.6-1.0	WEEK 2 1.2-1.6	WEEK 3 1.3-1.7	WEEK 4 1.2-1.7	WEEK 5 1.2-1.7	WEEK 6 1.2-1.7	WEEK 7 1.2-1.9	WEEK 8 1.2-1.9	WEEK 9 1.2-1.9	WEEK 10 1.2-1.9	WEEK 11 1.0-1.6
2 Part Nutrient	NF Coco Part A	(mL)	5.7	9.4	9.4	11.3	11.3	13.1	13.1	13.1	13.1	9.4	7.5
2 Part Nutrient	NF Coco Part B	(mL)	5.6	9.3	9.3	11.3	11.3	13.1	13.1	13.1	13.1	9.4	7.5
4 Part Nutrient	Elements Grow Part A	(mL)	5.63	9.38	9.38	-	-	-	-	-	-	-	-
4 Part Nutrient	Elements Grow Part B	(mL)	5.63	9.38	9.38	-	-	-	-	-	-	-	-
4 Part Nutrient	Elements Bloom Part A	(mL)	-	-	-	11.3	11.3	13.1	13.1	13.1	13.1	11.3	9.4
4 Part Nutrient	Elements Bloom Part B	(mL)	-	-	-	11.3	11.3	13.1	13.1	13.1	13.1	11.3	9.4
Additive	NF Zyme	(mL)	3.8	3.8	3.8	-	-	-	-	-	-	-	-
Additive	Alaska Pure	(mL)	-	-	-	7.5	7.5	11.3	11.3	15	15	15	7.5
Additive	Cargo Boost	(mL)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	5.6	5.6	3.8
Additive	Fulife	(mL)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	1.9	1.9	1.9



## Cargo Boost



Cargo Boost is a revolutionary patented product that continuously delivers nutrients to your plants root zone to achieve rapid growth and larger yields, as it is made up of small molecules that increase the nutrients ability to chelate. Unlike conventional chelation the small molecules work in a two step process. The first step is the creation of nano clusters through sequestration. This is followed by specific molecules in Cargo Boost attaching themselves to the sequestered elements like a container of cargo. The molecules then deliver the food to your plants root system, where Cargo Boost pushes the nutrient through the plants outer cell wall, before returning to the nutrient pool to begin the process again.

Not for Sale or Use in the state of California

## Alaska Pure



Alaska Pure is a complete flowering enhancer containing rich sources of potassium, natural plant growth stimulants, and 17 amino acids. It's your ultimate organic potash. Potassium directly effects the production of chlorophyll and is essential for the storage and movement of carbohydrates in plants. Carbohydrates are essential to produce higher brix (sugar) levels as to maximize the weight of your yield. Potassium also regulates stomata opening which improves the plants ability to breath. Alaska Pure is an exceptional source of auxins, cytokinins, and gibberellins. In conjunction all these natural hormones promote rapid cell division allowing the plant to uptake larger amounts of nutrient while improving its resistance to disease and pest infestation. The unique formula is also packed with a natural stimulant that enhances the rate of photosynthesis.

Item	Description	MSRP
NFCB250	Cargo Boost 250 ml . . . . .	\$10.95
NFCB500	Cargo Boost 500 ml . . . . .	16.95
NFCBQT	Cargo Boost 1 Liter . . . . .	23.95
NFCBGA	Cargo Boost 5 Liter . . . . .	81.95
NFCB5G	Cargo Boost 20 Liter . . . . .	278.95

Item	Description	MSRP
NFAP250	Alaska Pure 250 ml. . . . .	\$9.95
NFAP500	Alaska Pure 500 ml. . . . .	15.95
NFAPQT	Alaska Pure 1 Liter . . . . .	19.95
NFAPGA	Alaska Pure 5 Liter . . . . .	59.95
NFAP5G	Alaska Pure 20 Liter . . . . .	208.95

## Fulife



Fulife maximizes your yields by improving your plants metabolic processes. It is derived from organic carbon (fulvic acids from Leonardite Shale) allowing your plants to grow faster due to improved photosynthesis. Fulife causes an improvement in stomata openings which will allow for better plant respiration and transpiration; while helping the growth of beneficial micro organisms. Fulife allows the plants water uptake to remain unaffected while increasing nutrient absorption by up to 40%. Fulife serves to convert metallic elements into easily absorbable plant food; while at the same time increasing the nutrient chelating speed.

Not for Sale or Use in the state of California

## Ocean Mist



Ocean Mist is a unique natural blend formulated to stimulate spontaneous plant growth. It is derived from fish proteins, high analysis kelp, polysaccharides, liquid vermicast, humic, and fulvic acids. This unique mixture helps enzymes participate in cell metabolism and increases the production of carbohydrates (brix levels) to improve yields and reduce fruit rot. The structural polysaccharides in Ocean Mist also have the ability to improve the cell structure of the plant. This allows the plant to concentrate its energy on the flowering process. The outcome results in spontaneous growth and heavier yields. Ocean Mist is ideal to relieve stress affected plants and provides natural chelation, as well as, being an excellent stimulant for micro organism activity. It also improves fragrance and flavor of the final product.

Item	Description	MSRP
NFFL250	Fulife 250 ml . . . . .	\$9.95
NFFL500	Fulife 500 ml . . . . .	12.95
NFFLQT	Fulife 1 Liter . . . . .	18.95
NFFLGA	Fulife 5 Liter . . . . .	48.95
NFFL5G	Fulife 20 Liter . . . . .	143.95

Item	Description	MSRP
NFOM250	Ocean Mist 250 ml . . . . .	\$13.95
NFOM500	Ocean Mist 500 ml . . . . .	20.95
NFOMQT	Ocean Mist 1 Liter . . . . .	36.95
NFOMGA	Ocean Mist 5 Liter . . . . .	141.95
NFOM5G	Ocean Mist 20 Liter . . . . .	494.95

## NfZyme



NfZyme will unlock your plants potential by developing an improved fruit bearing structure. The unique formula will help control cell division and stimulate root growth. NfZyme aids in photosynthesis and food formation and has the ability to enhance all modes of growth or flowering. The reaction that will occur is dependant on the mode of root development, growth or flowering that the plant is experiencing. The key to this occurrence is the Cytokinin hormones within NfZyme; by making these hormones available at the correct stage, the plant will show an increase in yields. NfZyme also contains natural forms of Gibberellins, Auxins, and Amino acids. These help with regulating growth, root formation, and increase the plants metabolic rate.

Item	Description	MSRP
NFNZ250	NfZyme 250 ml. . . . .	\$14.95
NFNZ500	NfZyme 500 ml. . . . .	26.95
NFNZQT	NfZyme 1 Liter . . . . .	49.95
NFNZGA	NfZyme 5 Liter . . . . .	194.95
NFNZ5G	NfZyme 20 Liter . . . . .	794.95



# Hydro Fuel



## Hydro Fuel

Base Nutrient 2 + 2 Part Grow (3.5-0-3.5), Bloom (3.5-0-

Hydro Fuel is an exciting Dutch based nutrient formulation now available in the North American marketplace. Hydro Fuel has been a leading nutrient in the European market place and is now made under license in British Columbia under strict guidelines. Hydro Fuel uses only the finest agricultural and pharmaceutical grade raw ingredients so that there are no unwanted impurities. Also, by using only the best in raw materials Hydro Fuel stays in perfect suspension and balance.

Hydro Fuel comes in a convenient easy to use two part grow (Groei) formulation and a two part bloom (Bloei) formulation. Hydro Fuel was designed to be so easy to use that you need only use equal amounts of A & B concentrates in your solution water to make up a perfectly balanced solution delivering everything your plants need. Hydro Fuel was specially designed for fast growing annuals and can be used in hydroponics, aeroponics, and soilless mixes to provide everything your plants need for strong, healthy growth and for the results that you demand.



### Hydro Fuel Grow Part A

MSRP

<b>HFGA1L</b>	Grow A 1 Liter	<b>\$11.95</b>
<b>HFGA4L</b>	Grow A 4 Liter	<b>35.95</b>
<b>HFGA10L</b>	Grow A 10 Liter	<b>69.95</b>
<b>HFGA20L</b>	Grow A 20 Liter	<b>119.95</b>

### Hydro Fuel Grow Part B

<b>HFGB1L</b>	Grow B 1 Liter	<b>\$11.95</b>
<b>HFGB4L</b>	Grow B 4 Liter	<b>35.95</b>
<b>HFGB10L</b>	Grow B 10 Liter	<b>69.95</b>
<b>HFGB20L</b>	Grow B 20 Liter	<b>119.95</b>

### Hydro Fuel Bloom Part A

MSRP

<b>HFBA1L</b>	Bloom A 1 Liter	<b>\$11.95</b>
<b>HFBA4L</b>	Bloom A 4 Liter	<b>35.95</b>
<b>HFBA10L</b>	Bloom A 10 Liter	<b>69.95</b>
<b>HFBA20L</b>	Bloom A 20 Liter	<b>119.95</b>

### Hydro Fuel Bloom Part B

<b>HFBB1L</b>	Bloom B 1 Liter	<b>\$11.95</b>
<b>HFBB4L</b>	Bloom B 4 Liter	<b>35.95</b>
<b>HFBB10L</b>	Bloom B 10 Liter	<b>69.95</b>
<b>HFBB20L</b>	Bloom B 20 Liter	<b>119.95</b>

## Aussie Tonic

Supplement (0.4-0.2-0)

Aussie Tonic is a complex and unique vitamin supplement and growth stimulator that encourages amazing results utilizing the latest that science has to offer. Contains a full complement of B vitamins, vitamins A, D, E, K, and C. These all help increase the cellular activity and relieve shock and stress caused by over or under watering, excess heat, or transplanting. Works on every cycle of the plant's life, from encouraging cuttings to take root, to increasing vegetative production and producing larger fruits and flowers. The ultimate in anti-stress products.



## Brix+

Supplement

Brix+ is a unique formula designed to achieve maximum yield. Scientifically designed using only the best ingredients, Brix+ is readily available for direct absorption into your favorite flower or herb. This 100% totally organic product contains the following naturally derived active ingredients: amino acids, carbohydrates, vitamins, tricontinol, enzymes, and proven biological yield enhancers.



### Item Description

MSRP

<b>HFAT250</b>	Aussie Tonic 250ml	<b>\$14.95</b>
<b>HFAT500</b>	Aussie Tonic 500ml	<b>21.95</b>
<b>HFAT1L</b>	Aussie Tonic 1 Liter	<b>29.95</b>
<b>HFAT4L</b>	Aussie Tonic 4 Liter	<b>84.95</b>
<b>HFAT10L</b>	Aussie Tonic 10 Liter	<b>174.95</b>
<b>HFAT24L</b>	Aussie Tonic 24 Liter	<b>379.95</b>

### Item Description

MSRP

<b>HFBP1L</b>	Brix+ 1 Liter	<b>20.95</b>
<b>HFBP4L</b>	Brix+ 4 Liter	<b>54.95</b>
<b>HFBP10L</b>	Brix+ 10 Liter	<b>112.95</b>
<b>HFBP24L</b>	Brix+ 24 Liter	<b>219.95</b>

## Bio-Gold

Supplement (0.4-2.5)

Bio-Gold is a storehouse of rhizospheric micro-organisms that colonize the rootzone creating an unparalleled environment for healthy plant growth. Hydroponic Applications: Mix 0.6 grams per 1 gallon of dechlorinated water in reservoir and run through system. Bio-Gold can be used weekly with nutrient change. Using more Bio-Gold than what is recommended may actually reduce its effectiveness. Do not use hydrogen peroxide with Bio-Gold.

### Item Description

MSRP

<b>HFBG130</b>	Bio-Gold 130 g	<b>\$33.95</b>
<b>HFBG250</b>	Bio-Gold 250 g	<b>49.95</b>
<b>HFBG500</b>	Bio-Gold 500 g	<b>89.95</b>



## Liquid W-8

### Supplement

Give your plants the Midas Touch. Liquid W-8 is a complex blend of organic enzyme activators, vitamins, essential amino acids, and unique carbohydrates. All designed to maximize your plants yield during the crucial flowering period. Extremely cost effective and worth its weight in gold! Liquid comparable to Karbo-Boost.



Item	Description	MSRP
HFWS81L	Liquid W-8 1 Liter	\$13.95
HFWS84L	Liquid W-8 4 Liter	40.95
HFWS810L	Liquid W-8 10 Liter	99.95
HFWS824L	Liquid W-8 24 Liter	199.95

## Massive

### Supplement (1-1.5-2.5)

Massive is a unique blend of vitamins, minerals, growth stimulants, and a high performance flowering additive with organic components derived from bee by-products. Massive is enhanced with B vitamins plus all the necessary micro elements, including the naturally occurring hormones, gibberellic acids, and tricanthol. Massive can be used to enhance any nutrient program with definitive and positive results.



Item	Description	MSRP
HFMA1L	Massive 1 Liter	\$18.95
HFMA4L	Massive 4 Liter	67.95
HFMA10L	Massive 10 Liter	109.95
HFMA24L	Massive 24 Liter	219.95

## Ocean Magic

### Supplement (0.2-0.2-3)

Ocean Magic is an organic extract from Atlantic Sea kelp harvested from the unpolluted waters of the northern Atlantic Ocean. Ocean Magic is cold processed to retain all of the vital minerals and nutrients. Ocean Magic contains a wealth of 100% organic nutrients, amino acids, bio stimulants, and enzymes. Ocean Magic can be used as a foliar spray, soil drench, and is suitable for hydroponic systems.



Item	Description	MSRP
HFOM250	Ocean Magic 250 ml	\$14.49
HFOM500	Ocean Magic 500 ml	19.95
HFOM1L	Ocean Magic 1 Liter	49.95
HFOM4L	Ocean Magic 4 Liter	144.95

## Finisher

### Supplement

Precisely designed for the heaviest harvest, Finisher is a unique blend of organic enzyme activators, vitamins, essential amino acids, and carbohydrates. The ingredients combined will unleash the full flowering potential of your favorite plants or herbs. Finisher optimizes harvest weight, promotes vigorous growth, enhances flavor and taste, and increases the health of your flowering plants.



Item	Description	MSRP
HFfi1L	Finisher 1 Liter	\$20.95
HFfi4L	Finisher 4 Liter	69.95
HFfi10L	Finisher 10 Liter	144.95
HFfi24L	Finisher 24 Liter	299.95

## Eco Root

### Supplement (2-0.5-7)

Eco Root Dip Gel contains 16 mycorrhizal fungi to build a natural microbial system in and around plant roots to enhance growth and vigor. Specially formulated amendments and a starch based gel for improved water storage and uptake. Store in a cool dry area. Not to be used with chlorinated water or hydrogen peroxide.



Item	Description	MSRP
HFER5	Eco Root 5 g	\$9.95
HFER12	Eco Root 12½ g	18.95
HFER25	Eco Root 25 g	35.95

## Hydro Boost

### Supplement

Hydro Boost is designed to swell your flowers the second and fourth week of the flowering stage; which promotes heavier and more dense flowers and fruits. It is also the most cost-effective product of its type in the industry - for you and the end user! Developed for stabilization and floral production in hydroponic applications, Hydro Boost may also be used in soilless growing mediums. Product should not be used with Massive Bloom Stimulator.



Item	Description	MSRP
HFHB40	Hydro Boost 40 g	\$13.95
HFHB300	Hydro Boost 300 g	92.95
HFHB500	Hydro Boost 500 g	134.95

# Hydro Fuel

## Karbo-Boost Supplement

Karbo-Boost is designed to be added to your nutrient program to force feed your plant's ready-to-use carbohydrates. This reduces the strain on food production, allowing the plant to focus on maximizing it's basic functions. Karbo-Boost can be used all the way through the growth cycle, but best results have shown that it works best in the flowering stage.



Item	Description	MSRP
HFKB600	Karbo-Boost 600 g	\$23.95
HFKB1	Karbo-Boost 1 kg	34.95
HFKB2	Karbo-Boost 2.3 kg	69.95
HFKB25	Karbo-Boost 25 lb	379.95

## Top Load Supplement (0.1-0.5-0.5)

Top Load is designed to regulate your desired plant's height. This very unique formulation will also increase your overall yield and create more dense flowers. A must have for gardeners using sea of green or rotational style gardens.



Item	Description	MSRP
HFTL1L	Top Load 1 Liter	\$119.95
HFTL4L	Top Load 4 Liter	369.95

## Pro-Cal Supplement

Pro-Cal is a highly beneficial calcium, magnesium, and iron plant nutrient supplement. This recommended application rate normally is sufficient to make up for any deficiencies in most soil or hydroponic formulas. Pro-Cal is more concentrated than competitive products and helps increase overall density in your plants. It remedies yellowing plants and helps resist disease.



Item	Description	MSRP
HFPC1L	Pro-Cal 1 Liter	\$13.95
HFPC4L	Pro-Cal 4 Liter	49.95
HFPC10L	Pro-Cal 10 Liter	94.95
HFPC24L	Pro-Cal 24 Liter	182.95

## Triple 888 Supplement (0-1-1)

Triple 888 Uptake is the highest quality fulvic acid on the market and is compatible with any nutrient. With the highest possible concentrations of organic materials available, adding Triple 888 Uptake to any foliar spray or nutrient mixture will improve the speed and penetration into the plant.



Item	Description	MSRP
HFT81L	Triple 888 1 Liter	\$19.95
HFT84L	Triple 888 4 Liter	59.95
HFT810L	Triple 888 10 Liter	124.95
HFT824L	Triple 888 24 Liter	259.95

## XXXTreme Supplement (0-.04-.06)

XXXTreme Uptake is the premier humic acid on the market. It is designed to be used as a soil conditioner in conjunction with your regular feeding program. For optimum results, use each time you water or fertilize at the recommended application rates.



Item	Description	MSRP
HFXT1L	XXXTreme 1 Liter	\$12.95
HFXT4L	XXXTreme 4 Liter	37.95
HFXT10L	XXXTreme 10 Liter	79.95
HFXT24L	XXXTreme 24 Liter	149.95

## Root Builder Supplement

For use as a microbial soil amendment, improving conversion of organic and inorganic fertilizers into plant-available forms and increasing microbial biomass. Root Builder also aids in the building of soil structure, retention of soil water, and treatment of soil salinity problems. Diluted product may be applied directly to the soil as a pre-plant or post-plant treatment. Soil applications should be made on moistened soil and watered in when possible. Product should not be used in a re-circulating hydroponic system.



Item	Description	MSRP
HFRB1L	Root Builder 1 Liter	\$59.95
HFRB4L	Root Builder 4 Liter	219.95
HFRB10L	Root Builder 10 Liter	499.95
HFRB24L	Root Builder 24 Liter	1,024.95



## Sacred Oil Supplement

Sacred Oil has been used for centuries by the people of India. Neem Oil is 100% natural and free of water and additives. Sacred Oil is an effective insecticide that works on contact, yet is safe to use on produce until the day of harvest. A great choice for gardeners looking for natural insect control. Sacred Oil is absorbed by the pests and interferes with reproduction and feeding for a steady decline in population.



## Clean Slate Supplement

Clean Slate is used primarily as a root zone cleaning and conditioning agent. Clean Slate will naturally improve overall plant health by effectively cleaning and sanitizing the root zone. A clean, disease-free root zone promotes fine feeder roots, allowing the plant to uptake oxygen, nutrients, and water at an increased rate, leading to healthier plants overall. This allows them protection from attacks of most common airborne pests, diseases, soil borne fungal, and bacterial pathogen outbreaks.



Item	Description	MSRP
HFSO250	Sacred Oil 250 ml	\$18.95
HFSO500	Sacred Oil 500 ml	32.95
HFSO1L	Sacred Oil 1 Liter	59.95
HFSO4L	Sacred Oil 4 Liter	184.95

Item	Description	MSRP
HFCS1L	Clean Slate 1 Liter	\$35.95
HFCS4L	Clean Slate 4 Liter	124.95
HFCS10L	Clean Slate 10 Liter	254.95
HFCS24L	Clean Slate 24 Liter	504.95

## Zyme Supplement

Zyme is a comprehensive enzyme formulation specifically designed to break down and redistribute organic components such as dead and diseased roots. Zyme assists the roots through its unique enzyme profile by uptaking and assimilating necessary minerals, vitamins, and other bio-stimulants. Zyme helps achieve a root zone that is healthy and active... therefore, no garden should be without it.

Item	Description	MSRP
HFZY25	Zyme 25 Caps	\$37.95
HFZY100	Zyme 100 Caps	129.95
HFZY250	Zyme 250 Caps	259.95



SEEDLINGS/CUTTINGS (18-24 HOURS OF LIGHT)	Groei A	Groei B	Aussie	Zyme Caps	Bio-Gold	XXXTreme Uptake	Triple 888 Uptake
100-200 PPM	3 ml	3 ml	2 ml	1 cap/ 10gal	0.3 gr	2 ml	2 ml
GROW STAGE (18 HOURS OF LIGHT)	Groei A	Groei B	Aussie	Zyme Caps	Bio-Gold	XXXTreme Uptake	Triple 888 Uptake
WEEK 1: 400-800 PPM	12 ml	12 ml	4 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml
WEEK 2: 800-1000 PPM	14 ml	14 ml	6 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml
WEEK 3: 1000-1400 PPM	16 ml	16 ml	6 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml



ALL AMOUNTS PER GALLON.  
Note: Always mix nutrients  
& additives in reservoir  
individually.

BLOOM STAGE (12 HOURS OF LIGHT)	Bloei A	Bloei B	Aussie	Zyme Caps	Bio-Gold	XXXTreme Uptake	Triple 888 Uptake	Liquid W-8	Massive	Finisher
WEEK 1: 1000-1400 PPM	12 ml	12 ml	0 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml	4 ml	20ml (optional)	0 ml
WEEK 2: 1000-1400 PPM	14 ml	14 ml	0 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml	4 ml	20ml (optional)	0 ml
WEEK 3: 1000-1400 PPM	14 ml	14 ml	6-8 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml	4 ml	20 ml	0 ml
WEEK 4: 1000-1400 PPM	16 ml	16 ml	6-8 ml	1 cap/ 10gal	0.6 gr	4 ml	4 ml	6 ml	20ml	0 ml
WEEK 5: 1000-1400 PPM	16 ml	16 ml	6-8 ml	1 cap/ 10gal	0.6 gr	0 ml	0 ml	6 ml	20 ml	10 ml
WEEK 6: 1000-1400 PPM	16 ml	16 ml	6-8 ml	1 cap/ 10gal	0.6 gr	0 ml	0 ml	6 ml	20 ml	10 ml
WEEK 7: 1000-1400 PPM	16 ml	16 ml	6-8 ml	1 cap/ 10gal	0.6 gr	0 ml	0 ml	6 ml	20 ml	10 ml
WEEK 8: 0 PPM	0 ml	0 ml	0 ml	1 cap/ 10gal	0.6 gr	0 ml	0 ml	6 ml	0 ml	10 ml

## Bio-Grow & Bloom

Base Nutrient 1 + 1 Part

Grow (2-0-1-6), Bloom (1-3-2)

Bio-Grow is a liquid plant food that promotes lush growth and is suitable for most all soil mixtures. It is a fertilizer and soil activator that can be used with drip irrigation systems. Bio-Grow can be used late in flowering as a plant tonic.

Bio-Bloom natural bloom formula is a complete fertilizer used from the beginning of fruit or flower production until harvest. It is packed with naturally occurring minerals, micro-nutrients, amino acids, and hormones of vegetable origin to ensure exuberant flowers and fruit sets. Bio-Bloom can be applied through manual watering or automatic drip irrigation systems.



Item	Description	MSRP
BBG500	Bio-Grow 500ml .....	\$11.95
BBG1L	Bio-Grow 1 Liter .....	21.95
BBG5L	Bio-Grow 5 Liter .....	77.95
BBG10L	Bio-Grow 10 Liter .....	144.95

## Alg-A-Mic Supplement

Plants will experience increased resistance to disease and environmental stresses with BioBizz Alg-A-Mic. Listed by the Organic Materials Review Institute (OMRI), this all-natural energy booster contains concentrated seaweed, trace elements, hormones, amino acids, and vitamins. Alg-A-Mic can be used as a soil drench or as a foliar feed.



Item	Description	MSRP
BBAM500	Alg-A-Mic 500ml .....	\$24.95
BBAM1L	Alg-A-Mic 1 Liter .....	37.95
BBAM5L	Alg-A-Mic 5 Liter .....	164.95
BBAM10L	Alg-A-Mic 10 Liter .....	269.95



Item	Description	MSRP
BBB500	Bio-Bloom 500ml .....	\$11.95
BBB1L	Bio-Bloom 1 Liter .....	21.95
BBB5L	Bio-Bloom 5 Liter .....	77.95
BBB10L	Bio-Bloom 10 Liter .....	144.95

## TopMax Bloom Stimulant

A 100% organic bloom stimulant comprised of the pure essence of special flowers. BioBizz TopMax stimulates the blossom cells and increases the transport of sugar molecules within the flowers creating an abundance of floral growth. TopMax also contributes to a soft sweet taste in the finished product. Although designed to be used with soil, TopMax can also be used with other soil-less and hydroponic mediums.



Item	Description	MSRP
BBTM500	TopMax 500ml .....	\$28.95
BBTM1L	TopMax 1 Liter .....	52.95
BBTM5L	TopMax 5 Liter .....	174.95
BBTM10L	TopMax 10 Liter .....	299.95

## Root Juice

### Root Stimulant

A 100% vegetable root stimulator that creates explosive root growth in already rooted plants through the stimulation of the natural microbiology surrounding the root system. Root Juice gives a better yield due to the ability of the plant to accelerate the uptake of nutrients. By having healthy roots the plant then has a higher resistance against high EC-values and produces a stronger plant that is more resistant to disease and insect attack.



## BioHeaven

### Supplement (1-0.2-0.2)

Compatible with all feeding programs and particularly beneficial in hydroponics, BioBizz BioHeaven (1-0.2-0.2) increases a plants vitality by enhancing absorption and utilization of the provided nutritional supplements and fertilizers. Concentrated formula rich in L-amino acids and naturally-aged humus.



Item	Description	MSRP
BBRJ250	Root Juice 250ml	\$18.95
BBRJ1L	Root Juice 1 Liter	52.95
BBRJ5L	Root Juice 5 Liter	249.95

Item	Description	MSRP
BBH250	BioHeaven 250ml	\$29.95
BBH500	BioHeaven 500ml	54.95
BBH1L	BioHeaven 1 Liter	104.95
BBH5L	BioHeaven 5 Liter	349.95

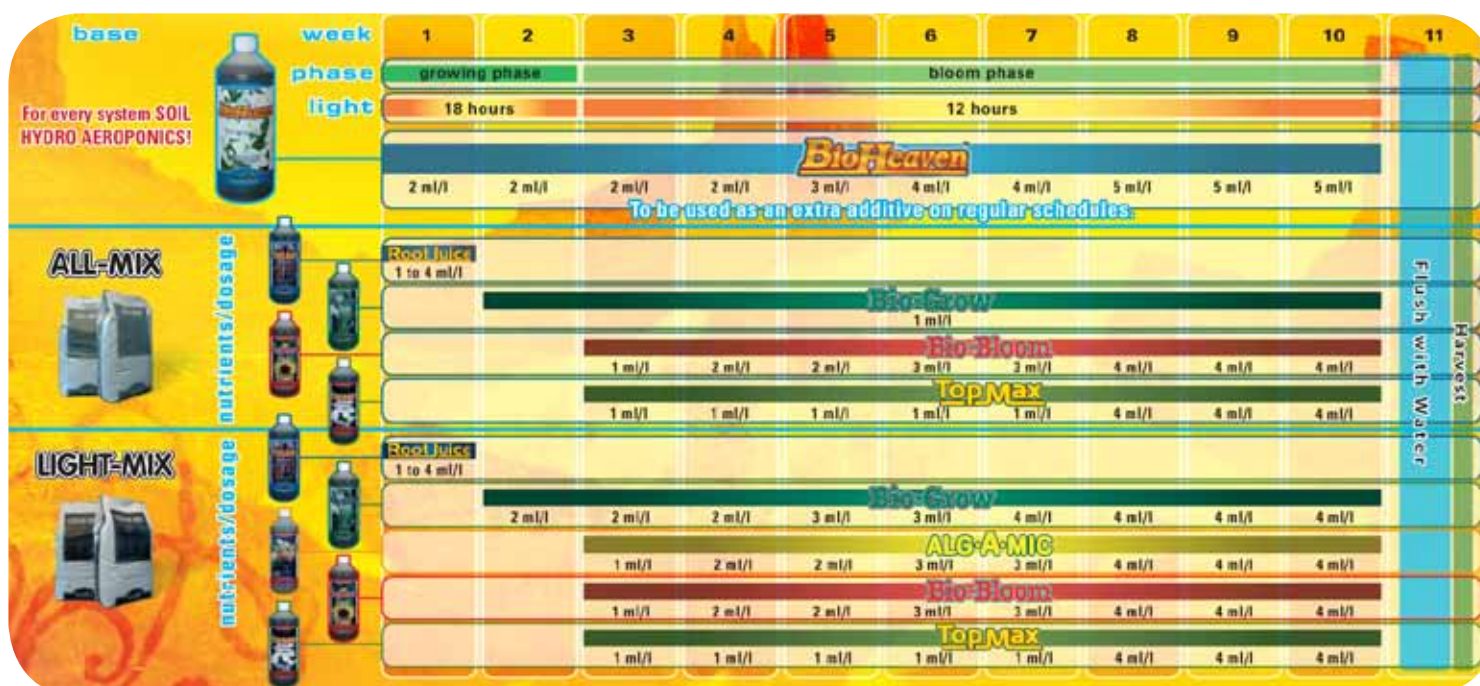
## Fish-Mix

### Supplement (2.1-0.2-6.6)

BioBizz Fish-Mix promotes activity in beneficial soil microorganisms, greatly improving the fertility of soil. Good for use indoors and out, although the strong odor lends itself to outdoor applications. Spectacular results have also been achieved using Fish-Mix as a foliar spray. Approved by the Organic Materials Review Institute (OMRI).



Item	Description	MSRP
BBFM500	Fish Mix 500ml	\$13.49
BBFM1L	Fish Mix 1 Liter	22.95
BBFM5L	Fish Mix 5 Liter	84.95
BBFM10L	Fish Mix 10 Liter	159.95





# Heavy 16

## Heavy 16 Bud and Veg

Heavy 16 is for every grower that wants the best results and confidence in knowing they are using a high quality hand-made nutrient that is manufactured in house by Artisans who take pride in what they do. Heavy 16's unique quality, packaging, and versatility will give you the results and convenience that you have always wanted from your nutrient program, no matter what size operation you run or experience level you are currently at. **PROFESSIONAL GRADE. ARTISAN QUALITY**

### Key parts to Heavy 16 include:

- Veg formula contains higher Calcium and Nitrogen rates in multiple forms to ensure a cascading delivery
- Using multiple forms of chelated micronutrient derivatives to ensure availability
- Mixed in precision micro-batches by artisans and designed for big growers
- Equal 2-part Dutch style nutrient (compatible with automated nutrient dosers)
- Bud formula has a higher Phosphorus/Potassium content and a reduced need for mineral bloom stimulants – ½ strength on bloom additives is recommended
- Formulated with purified water for discerning growers using reverse osmosis purification systems
- Optimized for using enzymes, hormones, microbes, organic stimulants, carbohydrate solutions, fulvics, aminos, etc.
- Derived from the best 100% soluble greenhouse grade fertilizers from around the world.



Item	Description	MSRP
H16VAQT	Heavy 16 Veg A 1 Liter	\$32.95
H16VAGA	Heavy 16 Veg A 5 Liter	79.95
H16VA2G	Heavy 16 Veg A 10 Liter	179.95
H16VA5G	Heavy 16 Veg A 23 Liter	344.95
H16VA20G	Heavy 16 Veg A 55 Liter	739.95

Item	Description	MSRP
H16BAQT	Heavy 16 Bud A 1 Liter	\$32.95
H16BAGA	Heavy 16 Bud A 5 Liter	79.95
H16BA2G	Heavy 16 Bud A 10 Liter	179.95
H16BA5G	Heavy 16 Bud A 23 Liter	344.95
H16BA20G	Heavy 16 Bud A 55 Liter	739.95

Item	Description	MSRP
H16VBQT	Heavy 16 Veg B 1 Liter	\$32.95
H16VBGA	Heavy 16 Veg B 5 Liter	79.95
H16VB2G	Heavy 16 Veg B 10 Liter	179.95
H16VB5G	Heavy 16 Veg B 23 Liter	344.95
H16VB20G	Heavy 16 Veg B 55 Liter	739.95

Item	Description	MSRP
H16BBQT	Heavy 16 Bud B 1 Liter	\$32.95
H16BBGA	Heavy 16 Bud B 5 Liter	79.95
H16BB2G	Heavy 16 Bud B 10 Liter	179.95
H16BB5G	Heavy 16 Bud B 23 Liter	344.95
H16BB20G	Heavy 16 Bud B 55 Liter	739.95

# HEAVY 16

## PROFESSIONAL HYDROPONIC NUTRIENT

### VERSATILE PROGRAM

Technically, every type of farming is hydroponic (even soil) which is why Heavy 16 was designed to go on anything an everything. You can grow an indoor hydroponic crop AND water your soil vegetable garden and landscape outside with the same stuff. And it's COMPLETE, meaning it contains ALL essential macro and micro elements making your produce MORE NUTRITIOUS and your indoor crops HEAVY and MORE VALUABLE at harvest.

### QUALITY PRODUCT

We take pride in micro brewing every batch of Heavy 16 by hand using deep mountain well water that is highly filtered and heated. We precisely measure and refine each ingredient to ensure CONSISTENCY and PURITY before it ever reaches a bottle. We source our derivatives from trusted sources and never skimp on quality. It's worth all the extra work, because it makes a difference.

For more information, please visit us at [www.field16.com](http://www.field16.com)

### EASY YIELDS

We have made Heavy 16 as powerful and user friendly as possible. Our straight forward, easy to follow feed schedule (see back) is perfect for the indoor/outdoor gardener looking to keep things simple. There is NO NEED TO USE ADDITIVES OR pH ADJUSTERS since they are already accounted for. In short, it's kicked up, just like a farmer would have it. All you need is Heavy 16 and water and you're ready to grow large gardens and big buds. It's that easy!

### MORE INFO ABOUT HEAVY 16

- There are many years of scientific research, agricultural production knowledge, and proven indoor farming experience in every batch of Heavy 16.
- Although no additives are needed, recommended natural product to enhance Heavy 16 include: organic stimulants, compost teas, enzymes, hormones, and microbial inoculants.
- Heavy 16 is proudly made in California.



### SIMPLE FEED SCHEDULE

#### Mixing Procedure:

1. Fill reservoir half way with fresh filtered water.
2. Numbers in the schedule are for EQUAL PARTS of BOTH A & B (ex: add 15 ml of part A and 15 ml of part B)
3. Shake part A well, measure proper amount and add to reservoir. Wash measuring cup.
4. Shake part B well, measure proper amount and add to reservoir. Wash measuring cup.
5. Agitate reservoir, finish filling reservoir, then ,measure ppm and pH to endure correct ranges (pH 5.5 to 6.8)
6. Water is ready for irrigation.

# HEAVY 16

## PROFESSIONAL HYDROPONIC NUTRIENT

CONVERSIONS: 1 tsp = 5ml 1 tbsp = 15 ml 1 Cup = 240 ml

Indoor Hydroponics (for ALL hydroponic techniques and inert media types -recirculating and run-to-waste systems)

Nutrient	VEG A & B				BUD A & B							
Light Hours	18+	18+	18+	12	12	12	12	12	12	12	12	12
Crop Phase	Seedlings & Clones	Early Veg	Late Veg	Transition	Bud	Bud	Bud	Bud	Bud	Bud	Bud	Bud
Week	1	2	3	1	2	3	4	5	6	7	8	
Per Gallon	3-5 ml	10 ml	15 ml	15 ml	15 ml	15 ml	15 ml	15 ml	15 ml	15 ml	15 ml	15 ml
Per Liter	0.8 - 1.3 ml	2.6 ml	4 ml	4 ml	4 ml	4 ml	4 ml	4 ml	4 ml	4 ml	4 ml	4 ml

Indoor and Outdoor Soil (for gardens, landscapes and potted plants)

Nutrient	VEG A & B				BUD A & B							
Light Hours	18+	18+	18+	12	12	12	12	12	12	12	12	12
Crop Phase	Seedlings & Clones	Early Veg	Late Veg	Transition	Bud	Bud	Bud	Bud	Bud	Bud	Bud	Bud
Week	1	2	3	1	2	3	4	5	6	7	8	
Per Gallon	3 ml	5 ml	5 ml	5 ml	5-10 ml	5-10 ml	5-10 ml	5-10 ml	5-10 ml	5-10 ml	5-10 ml	5-10 ml
Per Liter	0.8	1.3 ml	1.3 ml	1.3 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml	1.3-2.6 ml

**NOTE:** Rates are for applications of 2-3 times per week with fresh water irrigation in between.

Since soil types vary this chart is a good starting guideline. The user will need to vary rates depending upon plant performance.

# Humboldt County's Own

## BushMaster

Supplement (0-0.1-0)

BushMaster is our proprietary nutrient and kelp extract that speeds up the transition to bloom and decreases internode spacing; resulting in tighter flower clusters and more compact plants. Works great with soil, hydro, or as a foliar. Our new dosing instructions are designed to help maximize results. BushMaster is one of the only products on the market that can drastically increase yields regardless of the fertilizer line used.



## Gravity

Supplement (0-0.1-0)

Gravity is designed to take your flowers beyond anything achievable through fertilizer alone. Our proprietary kelp extract will promote complete flower development as well as add size and weight. Works well with all popular nutrient lines, in soil and in hydro. With our new dosing instructions, 2-4 applications three weeks before harvest will maximize results.



Item	Description	MSRP
HCBM4	BushMaster 4 oz . . . . .	\$19.95
HCBM8	BushMaster 8 oz . . . . .	34.95
HCBMQT	BushMaster 32 oz . . . . .	99.95
HCBMGA	BushMaster Gallon . . . . .	299.95

Item	Description	MSRP
HCGR8	Gravity 8 oz . . . . .	\$26.95
HCGRQT	Gravity 32 oz . . . . .	49.95
HCGRGA	Gravity Gallon . . . . .	149.95

## Snow Storm Ultra

Supplement (0-0-3)

If you like the crystal and resin development from Purple Maxx but are not in need of color development, then you'll love Snow Storm Ultra. We've taken all the ingredients that enhance these results and put them into their own product. Better than ever, and more affordable too! Works well in soil, hydro, and as a foliar. Contains no sugar water or carbohydrates.



## Purple Maxx

Supplement (0-0-3)

No dyes, no tricks. Works well in soil, hydro, or as a foliar. Purple Maxx is a mix of amino acids and organic compounds that maximizes nutrient uptake to enhance color, flavor, crystal, and essential oil development.



Item	Description	MSRP
HCSS8	Snow Storm Ultra 8 oz . . . . .	\$10.95
HCSSQT	Snow Storm Ultra 32 oz . . . . .	29.95
HCSSGA	Snow Storm Ultra Gallon . . . . .	89.95
HCSS2G	Snow Storm Ultra 2½ Gallon . . . . .	179.95

Item	Description	MSRP
HCPM8	Purple Maxx 8 oz) . . . . .	\$29.95
HCPMQT	Purple Maxx 32 oz . . . . .	84.95
HCPMGA	Purple Maxx Gallon . . . . .	249.95

## FEEDING SCHEDULE

	Cuttings/Veg. Weeks into Bloom						Weeks Before Finish		
	1	2	3	4	5		3	2	1
<b>LIGHTS:</b>	18-24 hr.	12 hr.	12 hr.	12 hr.	12 hr.	12 hr.	12 hr.	12 hr.	12 hr.
<b>SNOW STORM ULTRA</b>	½ tsp/gal	½ tsp	½ tsp	½ tsp	1 tsp/gal	1 tsp/gal	1-2 tsp/gal	1-2 tsp	1-2 tsp
<b>BUSHMASTER (optional)</b>	use once	½ tsp/gal	OR 4 tsp/ 5 gal and rinse thoroughly after 6 hrs.						
<b>GRAVITY</b>					1 tsp/ 5 gal	1 tsp/ 5 gal	1-2 tsp/gal	1-2 tsp	1-2 tsp
<b>PURPLE MAXX</b>							½-1 tsp/gal	½-1 tsp	½-1 tsp

**Caution:** If used on hermaphrodites or self-pollinating flowers, foliar application of **SNOW STORM ULTRA** may sterilize male pollen, preventing seed formation. - **Root Growth:** For accelerated root growth and development, add ½ to 1 tsp/gal SNOW STORM ULTRA to your favorite rooting solution once roots appear. When transplanting into pots add 1 tsp/gal at first watering. - During the last 3 weeks, **GRAVITY** should only be applied **ONCE PER WEEK, NOT** with every watering. When applying full strength, (½ tsp/gal) it's best to water with plain-water before applying, especially if applying with Snow Storm or Purple Maxx.

**IN HYDRO:** Snow Storm Ultra nutrient solutions should not be aerated because of undesirable bacterial growth. Sometimes this can be prevented by the addition of 1 tsp. of 35% hydrogen peroxide per 20 gallons of water. Or add Snow Storm 2 days before reservoir change out. Limit dosage to 1 tsp/gallon. BushMaster should be limited to 1 tsp/5 gallons and run for 5-12 days. Nutrient solution should be about ½ strength. Change reservoir at first sign of burn. Gravity, in a continuous feed, should be used at 1 tsp/5 gallons. If plants show no sign of stress, dosage can be increased towards the end. Purple Maxx directions are the same as Snow Storm Ultra. If your strain works with Purple Maxx, much faster and more intense results can often be obtained by foliar application of 1-2 ml/gallon about 2 weeks before finish. Keep humidity low and air well circulated.



## Spray-N-Grow Micronutrient Complex

Spray-N-Grow is a micronutrient complex made of naturally occurring elements that are essential for plant growth. Fertilizer and nutrients solutions provide your plants with major elements necessary for plant growth. Spray-N-Grow is the only micronutrient product available with the balanced formula of micronutrients that causes these elements to interact with one another. The ingredients in Spray-N-Grow are blended to act as one synergistic ingredient when activated to give plants more of what they need to be their very best.



## Spray-N-Grow Bill's Perfect Fertilizer

Bill's Perfect Fertilizer is a high phosphorus foliar fertilizer formulated to dramatically increase blooming and plant growth. This fertilizer is a highly effective supplement to your hydroponic nutrient solution and Spray-N-Grow that produces excellent results in all growing mediums. Bill's Perfect Fertilizer contains fish solids, sugar cane extract, humus, calcium, seaweed, and more to give plants a diet that is rich in organic matter.



Item	Description	MSRP
SNG8	Micronutrient Complex 8 oz. ....	\$12.95

Item	Description	MSRP
SNGF8	Bill's Perfect Fertilizer 8 oz. ....	\$7.95

## Spray-N-Grow Coco-Wet

Coco-Wet is an organic wetting agent formulated to maximize product absorption and coverage on all plant surfaces. Coco-Wet lowers the surface tension between plant leaves and the products being sprayed on them. This enables plants to get maximum absorption of everything that is sprayed on them. No more run-off, repelling effect, or evaporation. Coco-Wet's nonionic formulation makes it compatible with all nutrient sprays.

Coco-Wet is easy to use. Add Coco-Wet to all your foliar sprays, including: Spray-N-Grow, Bill's Perfect Fertilizer, and other liquid nutrients to obtain maximum benefits. Just mix your foliar spray according to directions, add the indicated amount of Coco-Wet and spray plants.



Item	Description	MSRP
SNGCW8	Coco-Wet 8 oz. ....	\$6.95

## Hygrozyme

### Supplement

Hygrozyme is a true breakthrough in enzyme based products that break down old root mass to allow for and stimulate new growth. Manufactured in an entirely unique way, Hygrozyme offers growers a number of advantages over competing products. It is bacteria free, meaning that it has a virtually unlimited shelf life and there is absolutely no risk of introducing living bacteria into your system. OMRI listed.

Item	Description	MSRP
HZPT	Hygrozyme 500ml. ....	\$21.49
HZQT	Hygrozyme 1 Liter. ....	36.95
HZGA	Hygrozyme 4 Liter. ....	132.95
HZ2G	Hygrozyme 10 Liter. ....	312.95
HZ5G	Hygrozyme 20 Liter. ....	589.95



## Fat Flower

### Bloom Enhancer

A unique blend of Micro and Macro Nutrients which will produce huge flowers and increase fragrant oil production of flowering plants. Use Fat Flower (0-50-30) during flowering at a rate of 1 tsp per 10 gallons in addition to your usual flowering solution for the first 6 weeks of flowering. Use 1 tsp per 5 gallons in addition to your normal flowering solution for the last 2 weeks. You will notice a difference immediately with this product. This is a tried and true bloom enhancer that is guaranteed to produce great results!

Not for Sale or Use in the state of California

Item	Description	MSRP
FFN-1.5	Fat Flower Bloom Supplement 1½ lb. ....	\$24.95
FFN-3	Fat Flower Bloom Supplement 3 lb. ....	44.95



# EXCITE YOUR PLANTS

# STIMUL8R

## PLANT ENHANCER

**IT'S BACK!**  
Straight from  
Australia....



**Stimul8r** liquid nutrient additive contains extremely potent plant phyto-estrogens to deliver impressive growing results in indoor and outdoor crops. With Stimul8r, plants can experience accelerated growth rates as well as increased mass and fruit yields with superior node development.

Not for Sale or Use in the state of California



Item	Description	MSRP
STL8RQT	Stimul8R Quart .....	\$159.95



# PLANT CARE







[www.capcontrollers.com](http://www.capcontrollers.com)



## THE RIGHT INGREDIENTS FOR SUCCESS



Plant maintenance products will help you get your customers plants from propagation to harvest and even post-production.

From scalpels and razor blades for cloning, to bamboo stakes to support your plants, you will find many of your expendable gardening necessities in this product section.

We offer a wide variety of safe inorganic and/or organically certified pest abatement products to protect your garden from harmful insect infestations and fungal outbreaks. You will also find an excellent selection of both pressurized and pump actuated foliar dispersion equipment to apply these products with.

Within this section you will also find a large selection of post-production equipment: everything from scissors and pruners for the hobbyist to the largest auto-trimming machinery and pollen extraction products for the seasoned commercial grower.



## Ed Rosenthal's Zero Tolerance Pesticide

Ed Rosenthal's Zero Tolerance eliminates plant pests. This herbal Pesticide is made from the highest quality oils of cinnamon, clove, rosemary, and thyme. Zero Tolerance not only stops pests in their tracks, it smells great too! It's made from pure food grade ingredients and is plant, people and pet friendly. Zero Tolerance is bio-degradable and environmentally safe so you can use it without worry. Works in outdoor gardens, greenhouses, and indoor hydroponic systems. Zero Tolerance not only kills existing pest infestations fast, it repels against new attacks. For fruits and vegetables, Zero Tolerance can be applied up to 5 days before harvest.

Zero Tolerance eliminates Spider Mites, Aphids, Thrips, Whiteflies, Ants, Scale, Gnats, Root Aphids, and Caterpillars. Available in quart or gallon size of Ready-to-Use formula, or quart size concentrate (makes 5 gallons).

Item	Description	MSRP
ZTPEQT	Pesticide-Fungicide Quart RTU	\$16.95
ZTPEGA	Pesticide-Fungicide Gallon RTU	49.95
ZTPCQT	Pesticide Concentrate Quart	109.95



## Ed Rosenthal's Zero Tolerance Fungicide

Ed Rosenthal's Zero Tolerance eliminates garden fungus. This herbal Fungicide is made from the highest quality oils of clove, rosemary, thyme, and wintergreen. Zero Tolerance not only stops fungi/mold in their tracks, it smells great too! It's made from pure food grade ingredients and is plant, people, and pet friendly. Zero Tolerance is bio-degradable and environmentally safe so you can use it without worry. Works in outdoor gardens, greenhouses, and indoor hydroponic systems. Zero Tolerance not only kills existing fungal infestations fast, it prevents new infestations. For fruits and vegetables, Zero Tolerance can be applied up to 5 days before harvest. It eliminates Powdery Mildew, Gray & White Mold, Black Spot, most molds and fungi. Zero Tolerance Fungicide is a powerful tool for all indoor gardeners. Ed would not put his name on these products if they did not work when used as directed! Available in quart or gallon sizes of Ready to Use formula.

Item	Description	MSRP
ZTFUQT	Fungicide Quart RTU	\$16.95
ZTFUGA	Fungicide Gallon RTU	49.95



## Doktor Doom Spider Mite Knock Out

Spider Mite Knock Out has a high concentration of the naturally-occurring insecticide pyrethrin, used to control aphids, spider mites, whiteflies, leafhoppers, Japanese beetles, etc. It can be used indoors and out, and is safe to apply on food crops up to one day before harvest.



Item	Description	MSRP
DDSMK	Spider Mite Knock Out 16oz.	15.49

## Doktor Doom Total Release Fogger

The biggest benefit to using Doktor Doom Total Release Fogger is the ability to re-enter fumigated areas, (within a couple of hours) and it does not have strong odors. Can be used with all ornamental plants, flowers, fruits and vegetables. Effectively controls fungus gnats, spider mites, two-spotted spider mites, aphids, whiteflies, scale, mealy bugs, and thrips. No phyto-toxicity to plants, and no need for safety goggles, gloves, respirators, etc. Safe to apply on food crops up to one day before harvest, and is fragrance free.



Item	Description	MSRP
DDFOG3	Total Release Fogger 3oz	10.29
DDFOG5	Total Release Fogger 5.5oz	12.79
DDFOG12	Total Release Fogger 12.5oz.	20.95





## Insect Dust

Insect Dust controls ants, ticks, fleas, cockroaches, earwigs, palmetto bugs, and soft body crawling insects. It kills crawling insects by cutting into their exoskeleton and dehydrating them. Keeps killing insects for 9 months and can be used indoors or out. All natural ingredients, not harmful to humans, pets, or the environment.



## Deer Repellent

Deer Repellent Repels deer and other small animals (including rabbits) by taste and smell. This natural formula is made with Garlic Juice, White Pepper, and Eggs. Not harmful to pets and humans and is safe to use on crops and vegetable gardens. Each application lasts up to 30 days.



Item	Description	MSRP
SGID4	Insect Dust 4.4 lb. ....	\$10.95

Item	Description	MSRP
SGDR24	Deer Repellent 24 oz. ....	\$8.95
SGDRCQT	Deer Repellent Concentrate Qt., RTU with your Garden Hose! .	\$1.95

## Anteater

AntEater controls ants, ticks, fleas, cockroaches, earwigs, palmetto bugs, and soft body crawling insects. It kills crawling insects by cutting into their exoskeleton and dehydrating them. Keeps killing insects for 9 months and is Certified Organic by OMRI. The only Ant Killer labeled for use in the kitchen and around food. Will not harm pets, humans, or the environment.



## Bug Shooter

Bug Shooter is made from clove oil and peppermint oil; kills on contact with no noxious odor. Spray directly on indoor and outdoor plants. Controls: ants, aphids, leafhoppers, mealybugs, fleas, mites, whiteflies, earwigs, slugs, mosquitoes, caterpillars, cockroaches, and palmetto bugs.



Item	Description	MSRP
SGAE3	AntEater 3 oz. ....	\$5.49

Item	Description	MSRP
SGBS24	Bug Shooter 24 oz. ....	\$8.95
SGBSCQT	Bug Shooter Concentrate Qt. RTU. ....	\$1.95

## Hot Pepper Wax

Targets most garden pests including aphids, spider mites, thrips, whitefly, scale, and many others. Simply spray Hot Pepper Wax on plants. Pests will stay away from fruit and vegetable crops. The Ready-To-Use comes in a 22 oz. spray bottle. The concentrate comes in a 16 oz. container and makes 2 gallons of spray. Made from hot Cayenne Peppers.

Item	Description	MSRP
HPWRTU	Hot Pepper Wax RTU 22 oz. ....	\$10.95
HPWCON	Hot Pepper Wax CON 16 oz. ....	\$11.95





## Whitefly

Belonging to the family hemiptera, whiteflies pack a double pest punch. By direct feeding, these little monsters tap into the phloem and drain the plant's fluids reducing turgor pressure while simultaneously infecting the plant with a host of diseases. These problems are compounded even further as whiteflies excrete honeydew as a byproduct of feeding and as a result encourage

the formation of mold. Identification is easy as the adults appear as small white flies and the juvenile stages with the exception of the "crawler" stage are immobile.



## Thrips

Tiny, slender and fringed winged, thrips are a unique challenge to deal with in your garden due to their exceptionally small size and their method of feeding. Feeding is accomplished by the insertion of the left mandible into the plant's cellular tissue and the extraction of fluid. This extraction leads to a decrease in cell wall pressure that when excessive can lead to severe wilt.



## Spider Mites

Possibly the most notorious of all indoor pests the spider mite is a formidable foe and should not be taken lightly. In the same class as ticks and spiders, the spider mite will quickly overwhelm your garden with exponential numbers. In optimum conditions a mite can hatch from an egg in as little as three days and becomes sexually mature in as few as five. This brief cycle allows the mites to build biological momentum and are hard to eradicate.



There are many natural ways to control or eliminate common garden pests such as aphids, white flies and spider mites without resorting to dangerous pesticides. The serious dangers posed by pesticides require the adoption of natural options for pest control. Three

of the best methods of natural pest control are incorporating pest-repellent plants into your garden, encouraging pest-reducing insects to visit your plants and applying home-brewed non-toxic pesticides.





Larvae



## Fungus Gnats

Mature fungus gnats are about 1/8" long, black in color and are mosquito-like in structure. Gnat eggs are barely visible, oval, white, shiny and semi-transparent. Juvenile larvae are legless, white, shiny black headed, and up to 1/4 inch (5.5 mm) long. Pupae may be identified within a soil sample as small silk-like cocoons interspersed generally within the top third of the substrate. Population explosions are generally linked to a period of over watering or general sustained wetness.



## Soft Scale

Relatively unassuming, scales spend most of their lives immobile. Crawlers hatch from beneath the females and are small in size (<1/32") and compressed in shape. Identification under magnification is not difficult but due to their small size and immobile lifestyle scale are often mistaken for dust or pollen on the leaf surface when viewed by the naked eye. Scale infestations spread fairly slowly as crawlers walk to the site where they will settle and feed. Soft scales are not covered by a waxy shell but excrete large amounts of liquid excrement called honeydew which often leads to the development of mold.



## Aphids

Considered by many to be amongst the most destructive crop pests on the planet. Exceptionally small and generally light colored this leaf eating insects leaves behind a tell tale sticky residue referred to as "honeydew". If your plants exhibit pin size holes in the leave and your stems and leaves have honeydew residue it is likely you have aphids. Aphids can be dealt with using a variety of ready to use products.





## pH Test Strips

pH Test Strips are quick and easy to use. Just touch a strip to your nutrient solution, and match the color of the strip to the color chart. Works in seconds. They come with about 100 strips per vial.

Item	Description	MSRP
PH-STRIP	pH Test Strips . . . . .	\$4.95



## Measuring Cylinders

Our measuring cylinders are absolutely the best way to measure liquids. They are extremely accurate. Made of polypropylene, they have very excellent resistance to all chemicals. Easy to read, molded graduations will not rub off like the cheap painted ones. They are available in 4 sizes: 2000ml with 20 ml graduations, 1000ml with 10 ml graduations, 500ml with 5 ml graduations, and 250ml with 2 ml graduations. Made in the USA!



Item	Description	MSRP
CYL250	Measuring Cylinder 250ml . . . . .	\$9.95
CYL500	Measuring Cylinder 500ml . . . . .	13.49
CYL1000	Measuring Cylinder 1000ml . . . . .	18.49
CYL2000	Measuring Cylinder 2000ml . . . . .	32.95

## Digital Nutrient Scales

Our digital nutrient measuring scales give you the best value in digital scales. One model will measure up to 500 grams in 0.1 gram increments and the other up to 5000 grams in 1 gram increments. They use 3 AA batteries (not included). Comes with a 3 year warranty.



Item	Description	MSRP
SCL-500	0-500 grams, 0.1 gram resolution . . . . .	\$59.95
SCL-5000	0-5000 grams, 1 gram resolution . . . . .	59.95

## Measuring Syringes

Are you tired of whipping out the teaspoon to measure liquid nutrients? These syringes are the answer. They come in 60 or 140 cc size and are available with a 12" removable tube to get into your nutrient bottle. They are available with a luer lock or with a catheter tip. Try these and you will **NEVER** use a spoon again! The 60 cc will measure 12 teaspoons at a time and the 140 cc will measure up to 28 teaspoons at a time (5ml = 1 tsp).



Item	Description	MSRP
SYR-001	Syringe Luer Lock, 60cc . . . . .	\$1.95
SYR-002	Syringe Luer Lock, 140cc . . . . .	6.49
SYR-003	Syringe Catheter Tip, 60cc . . . . .	1.95
SYR-004	Syringe Catheter Tip, 140cc . . . . .	6.49

## C.A.P. Measuring Shot Glass

Ideal for home, lawn, garden, or kitchen! Dishwasher safe, permanent markings, high visibility, with a heavy base to reduce tipping. Measures teaspoons, tablespoons, ounces, and milliliters.



Item	Description	MSRP
MMCAP	Measuring 1 oz Shot Glass . . . . .	\$3.49

## 360° Precipitator Spray Bottles

Not your ordinary spray bottle. The spray bottles have a 360° rotating nozzle that allows gardeners to spray in any direction without having to invert the bottle. This clever design makes for more efficient application of pesticides, insecticides, foliar sprays, and more. The nozzle can also be adjusted to apply liquids in a constant stream as well as a fine mist.



Item	Description	MSRP
SPB-001	360° Spray Bottle 8 oz . . . . .	\$3.29
SPB-002	360° Spray Bottle 16 oz . . . . .	3.79
SPB-003	360° Spray Bottle 24 oz . . . . .	4.19
SPB-004	360° Spray Bottle 32 oz . . . . .	4.69

## Mondi Mist N' Spray

Superior quality, 1.5 quart tank sprayer for the garden or home. Designed to provide maximum comfort, efficiency, safety, and ease of use. Constructed from high grade plastic to ensure long life and easy maintenance. Swivel nozzle that adjusts from a jet stream to a fine mist spray. Includes bonus 6" extension nozzle for harder to reach areas. Pressure relief valve releases pressure prior to opening.



Item	Description	MSRP
MDSPRAY	Mist N' Spray 1.5 qt . . . . .	\$9.95

## C.A.P. Night Light

Lightweight and durable, the Night Light attaches comfortably to your ear and shines wherever you GROW! The light will not disrupt your plant's environment during night time hours. Complete with an ultra bright GREEN LED and a swivel head for versatility and easy adjusting. Three cell batteries included. A great tool for all indoor gardeners!



Item	Description	MSRP
MSC-005	The Night Light . . . . .	\$9.95

## C.A.P. Plant Yo-Yo

Supports plants easily with up to 60 inches of retractable line. Just clip the orange hook to the plant and the green hook to a line going over the top of your garden and it will keep your plants from falling down. Heavy duty plastic housing.



Item	Description	MSRP
YO-YO	C.A.P. Plant Yo-Yo . . . . .	\$1.49

## 30X Pocket Magnifier w/Light

This pocket magnifying glass is perfect to have around the garden. Allows you to spot pests before they become a problem. Features a built-in light for great clarity.



Item	Description	MSRP
MAG-30X	Magnifier 30x w/light . . . . .	\$12.95

## F.Y.I. Hydroponics DVD

Excellent instructions featuring up-to-date procedures using actual operating hydroponic gardening systems. Covers nutrients, seed germination and root propagation, lighting, and many types of hydroponic systems.



Item	Description	MSRP
DVD-001	F.Y.I. Hydroponics DVD . . . . .	\$29.95

## Scissors & Shears

A combination of precision and comfort, our Bonsai Scissors have soft bow grips for hours of easy snipping. The high leverage makes even the most difficult trimming easy. The Micro Tip Pruning Scissors, Large Shears, and Small Shears all feature a surgical stainless steel blade to stay sharp for years and comfortable rubberized grips. They are spring loaded for easy cutting. The Small Shears measure 6" long with a 1" opening and the Large Shears measure 7 1/2" long with a 1 3/4" opening.



Item	Description	MSRP
SCZ-001	1.) Micro Tip Scissors . . . . .	\$13.49
SCZ-002	2.) Bonsai Scissors . . . . .	13.49
SCZ-003	3.) Large Shears . . . . .	13.95
SCZ-004	4.) Small Shears . . . . .	13.95

## The C.A.P. Head Light

The Head Light head lamp has 8 green LED's to allow you to work in your garden at night. The green lights don't affect night-sensitive plants. Different settings allow you to run either 4 LED's, 8 LED's, or blink all 8 of the LED's. The Head Light comes complete with 3 AAA batteries!



Item	Description	MSRP
MSC-001	The C.A.P. Head Light . . . . .	\$13.95

## Bamboo Plant Stakes

Lightweight Bamboo Plant Stakes have a smooth, attractive finish. Strong and durable, ideal for indoor or outdoor use.

Available in 24", 36", or 48" length.



Item	Description	MSRP
BSTK-001	2' Bamboo Stakes 25/pk . . . . .	\$2.29
BSTK-002	3' Bamboo Stakes 25/pk . . . . .	3.29
BSTK-003	4' Bamboo Stakes 25/pk . . . . .	4.29

## Why Trimpro?



The Trimpro line of trimmers are very effective at processing and removing the unwanted foliage from your finished crop. This is done in a fashion far superior to other trimmers and it's accomplished

with very little noise. These units are engineered specifically to remove the undesirable bulk foliage and branches from a wide variety economically desirable crops including: flowers and medicinal herbs. Trimpro's cutting mechanism is made of tempered steel and provides a clean cut without bruising, burning or damaging the desired plant material. This design ensures that your end product maintains the quality and characteristics that you have worked tirelessly to produce.

### Trimpro Trimbox - Trimmer

Built on the same principles as the Trimpro, the Trimbox is conceived for a smaller producer. Smaller and very efficient, the Trimbox gives very convincing results.



Item	Description	MSRP
TPRTB	Trimpro Trimbox .....	\$894.95

### Trimpro - Trimmer

The Trimpro is an effective and very quiet leaf trimmer. It is used to remove excess leaves and to cut twigs from different types of plants and flowers. The Trimpro is also used to cut plants and bushes like rosemary, oregano, basil, mint, lavender, coriander, parsley, and to prepare essential oils and mixed flowers for potpourri. Its blade, made of tempered steel, allows a clean cut without damaging the plant. The Trimpro is equipped with a leaf recovery system and is easy to transport (dismountable).



Item	Description	MSRP
TPRTP	Trimpro Trimmer .....	\$1,594.95

### Trimbox Workstation - Trimmer

Conceived to create an efficient working space, the Trimbox Workstation is equipped with a working surface of 18" x 18" in stainless steel (not coated) of 1/16" thickness allowing the freedom of movement and a closer cut!



Item	Description	MSRP
TPRTBW	Trimpro Trimbox Workstation .....	\$1,179.95

### Trimpro Automatik - Trimmer

Let the Trimpro Automatik do the job for you. Equipped with a powerful motor, 4 cutting blades, and a circular and hermetic structure that creates a whirlwind effect, the Trimpro Automatik is the fastest and safest way to trim your plants.



Item	Description	MSRP
TPRTPA	Trimpro Automatik .....	\$3,298.95

### Trimpro Workstation - Trimmer

With the same characteristics as the Trimbox Workstation, the Trimpro Workstation allows the closest cut while combining the large cutting surface of the Trimpro!



Item	Description	MSRP
TPRTPW	Trimpro Workstation .....	\$1,948.95

### Trimpro XL - Trimmer

Designed to respond to the needs of large producers, the Trimpro XL has a greater capacity and a productivity ratio 5 times superior to its predecessor. The newly designed grate facilitates the plants' movement. The blades height is adjustable to allow a precise cutting distance and a dimmer on the motor regulates the whirlwind's effect on velocity.



Item	Description	MSRP
TPRXL	Trimpro XL .....	\$9,994.95



## Trimpro Replacement Parts



Item	Description	MSRP
<b>TPRBL</b>	Trimpro Blade	\$191.95
<b>TPRG1</b>	Trimpro Grate 7/16" Slots	161.95
<b>TPRG2</b>	Trimpro Grate Mixed Slots	176.95
<b>TPRHB</b>	Trimpro Hub for Blade	22.95
<b>TPRM</b>	Trimpro Replacement Motor	198.95
<b>TPRRB</b>	Trimpro Replacement Bag w/ ring	73.95
<b>TPRRBNR</b>	Trimpro Replacement Bag (no ring)	52.95
<b>TPRRF</b>	Trimpro Rubber Fastener	10.95
<b>TPRTBBL</b>	Trimpro Trimbox Blade	191.95
<b>TPRTBG</b>	Trimpro Trimbox Grate 7/16" Slots	47.95
<b>TPRTBHB</b>	Trimpro Trimbox Hub for Blade	22.95
<b>TPRTBM</b>	Trimpro Trimbox Replacement Motor	294.95
<b>TPRTPAG</b>	Trimpro Automatik Grate 1/4" Slots	298.95
<b>TPRTPAHB</b>	Trimpro Automatik Hub & Blade Assembly	614.95
<b>TPRTPAM</b>	Trimpro Automatik Replacement Motor	594.95

### Grates



Trimpro Automatik  
Grate 1/4" Slots



Trimpro Grate  
Mixed Slots



Trimpro Grate  
7/16" Slots

### Blades & Hub



Trimpro Automatik  
Hub & Blade Assembly



Trimpro Trimbox  
Hub for Blade



Trimpro  
Hub for Blade

### Motors



Trimpro  
Replacement Motor



Trimpro Trimbox  
Replacement Motor



Trimpro Automatik  
Replacement Motor

## SpinPro Trimmer

The SpinPro Trimmer is a small trimmer that is geared to small or medium sized projects. Used for the removal of protruding leaves and stems, the preparation of plants for essential oils, and for the mixture of flower petals for aromatherapy and potpourris. The SpinPro trims with just a few turns of the handle. The stainless steel gearbox design with no electric parts makes this unit virtually unbreakable.



Item	Description	MSRP
<b>TRM-004</b>	SpinPro (Hand Trim)	\$699.95
<b>TRM-005</b>	Replacement Cutting Wires (20)	39.95

## Pro-Cut Trimmer

Don't spend hours trimming leaves when the Pro-Cut Leaf Trimmer can tear through those piles in no time at all. It separates excess leaves and cut twigs from a variety of plants and flowers. The Pro-Cut trims plants and small bushes such as oregano, basil, rosemary, mint, lavender, coriander, and parsley, used in the preparation of essential oils, aromatherapy, and mixed flowers for potpourri.



Item	Description	MSRP
<b>TRM-002</b>	Pro-Cut (Power Trim)	\$959.95
<b>TRM-003</b>	Replacement Cutting Wires (20)	39.95

## The Stripper "Big One" Trimmer

The Stripper Big One is used to remove excess leaves and to cut twigs from different types of plants and flowers. Used to cut plants and bushes like rosemary, oregano, basil, mint, lavender, coriander, parsley, and to prepare essential oils and mixed flowers for potpourri. With its "comb effect", the grid aligns the leaves before cutting and achieves better stripping quality. The Stripper is equipped with a leaf recovery system and is easy to transport (dismountable).



Item	Description	MSRP
<b>TRM-009</b>	Stripper Big One Trimmer	\$2,999.95

# Extraction Bags

## Payload Extraction Bags

The Payload extractor bag is the very best cold-water extraction system in production today. Payload offers a four-bag kit and a nine-bag kit at the best retail price in the industry. Replacement bags for all micron sizes are available below.

We are positive that those who choose to use this product will be very satisfied with their purchase. Payload Extraction Bags stand behind the quality of the product and offer a 100% satisfaction guarantee.

Payload filtration kits allow you to safely and efficiently extract the valuable resins that plants naturally secrete, without the use of any chemicals. Plant extracts have many uses and health benefits including: cooking, perfumes, shampoos and soaps, beverages, and aromatherapy.



### Payload 5 Gallon

MSRP

PEB-001	4 Bag Kit w/12" x 10" Pressing Screen	\$134.95
PEB-002	9 Bag Kit w/12" x 10" Pressing Screen	249.95

### Payload 32 Gallon

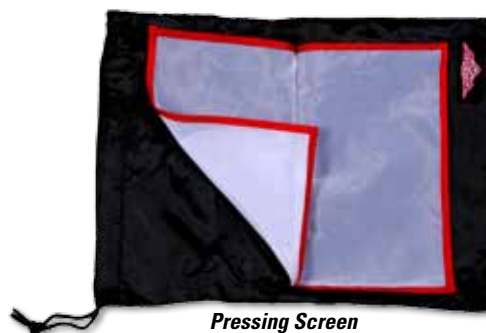
MSRP

PEB-003	4 Bag Kit w/24" x 6" Pressing Screen	\$319.95
PEB-004	9 Bag Kit w/24" x 6" Pressing Screen	489.95

### Payload Pressing Screens

MSRP

PEB-007	12" x 10" Pressing Screen	\$13.95
PEB-008	24" x 16" Pressing Screen	16.95



Pressing Screen



Bucket  
not included

### Payload Replacement Bags

MSRP

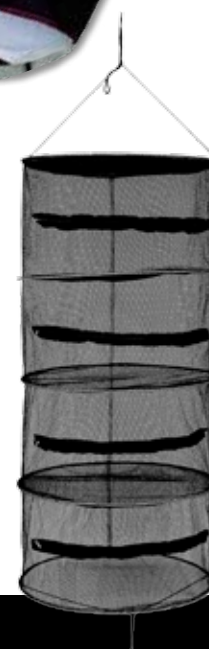
PEB-051	Maroon 5 Gallon (220 microns)	\$54.95
PEB-052	Green 5 Gallon (190 microns)	54.95
PEB-053	Blue 5 Gallon (160 microns)	54.95
PEB-054	Light Green 5 Gallon (120 microns)	54.95
PEB-055	Pink 5 Gallon (100 microns)	54.95
PEB-056	Light Blue 5 Gallon (90 microns)	54.95
PEB-057	Yellow 5 Gallon (73 microns)	54.95
PEB-058	Orange 5 Gallon (45 microns)	54.95
PEB-059	Red 5 Gallon (25 microns)	54.95
PEB-061	Maroon 32 Gallon (220 microns)	91.95
PEB-062	Green 32 Gallon (190 microns)	91.95
PEB-063	Blue 32 Gallon (160 microns)	91.95
PEB-064	Light Green 32 Gallon (120 microns)	91.95
PEB-065	Pink 32 Gallon (100 microns)	91.95
PEB-066	Light Blue 32 Gallon (90 microns)	91.95
PEB-067	Yellow 32 Gallon (73 microns)	91.95
PEB-068	Orange 32 Gallon (45 microns)	91.95
PEB-069	Red 32 Gallon (25 microns)	91.95



## Drying Rack

The Rack has four separate compartments, each 13½ inches in height, and can hold a maximum of 2-3 lbs. of wet material per level. A five gallon bucket fits easily into the zippered opening, making product transfer a breeze. When you are finished drying your crop the drying rack collapses to 1½ inches and can be stored anywhere. Many growers are reporting great results by running their drying racks horizontally, making it easier to dry slowly and evenly, and minimizing damage to product by simply spinning the rack, and not turning it by hand. This item makes a perfect addition to the Rolling Thunder Trimmer.

Don't waste the energy and money you spent on your crop, only to have it fall off of a flimsy line onto the floor. Imagine how much space you will save by drying your crops this way, what once took an entire room, can now easily fit in the corner or a closet.



Item	Description	MSRP
MSC-009	Collapsible Drying System	\$29.95



# REFERENCE





# Hydroponic Glossary

**Aeration:** the act of introducing more oxygen into a given substrate or solution than is found in ambient conditions. This is usually accomplished by implementing an air pump and a diffusion device generally an air stone or flexible membrane.

**Aeroponics:** a method of hydroponic growing that uses emitters as the means to introduce the nutrient solution to the root zone. These emitters apply a fine droplet mist the root zone at either timed intervals or continuously.

**Acid:** a term used to describe compounds containing hydronium ions. The disassociation of said ion will result in a lowering of the ph. Any solution with a ph below 7 is considered acidic.

**Alkaline:** a term used to describe compounds containing a hydroxide ion. The disassociation of this ion will results in an increased ph value. Any solution with a ph above 7 is considered alkaline or basic.

**Bloom Additive: (aka bloom booster):** a nutrient additive generally applied during the bloom or flowering stage of growth to enhance the production of inflorescence. This is accomplished primarily through a formulation that is disproportionate in its ratios of p and k relative to n.

**Burn:** a common term used to describe the effects of over fertilization or thermal stress from a light source.

**Chlorosis:** the physiological manifestation of inadequate chlorophyll production. Chlorosis is likely caused by one of the following: root damage, poor drainage, high alkalinity or nutrient lockout as a result of erratic ph levels.

**Clone:** an identical genetic replica of a mother plant produced through asexual propagation including, but not limited to, cuttings, layering and tissue culture.

**Conditioning:** the process of adjusting the ph of a media to a level that is suitable for hydroponic propagation. Generally referring to rockwool or coir.

**Dissolved Solids or Total Dissolved Solids:** the amount of solute in solution measured in parts per million. In hydroponics this is often used as an indicator of solution strength and is used to estimate when a reservoir needs to be changed out or topped off.

**Drip Aeration:** a hydroponic cultivation method wherein air

pressure from a small air pump is used to percolate nutrient solution out through a ring of feeder tubing which encircles the plant.

**Drip System (Drip Emitter System):** a basic automatic watering design that utilizes a main feed line with several pressure compensated emitters attached to small diameter drip lines.

**Ebb-and-Flow (or flood and drain):** a popular hydroponic growing method that employs interval modulated flood and drain cycles in which the nutrient solution is introduced to through the bottom of the container versus top feeding via drip irrigation.

**EC (electric conductivity):** a measure of a solution's ability to conduct electricity. This method is fairly accurate in determining the concentration of hydroponic nutrients as a result of salt-based makeup of most commercially available nutrients.

**Foliar Feeding:** introducing a nutrient solution or additive into a plant via leaf absorption. This is often accomplished by means of pump sprayer or ultrasonic fogger. It is also helpful to include a wetting agent with your solution to increase efficacy.

**Fungicide:** any product that destroys or inhibits fungus.

**Fungus:** any of a major group (fungi) of saprophytic and parasitic spore-producing organisms usually classified as plants that lack chlorophyll and include molds, rusts, mildews, smuts, mushrooms, and yeasts. Common fungal diseases that attack plants are "damping-off," botrytis, and powdery mildew.

**Germination:** the process in which a plant emerges from a seed and begins growth.

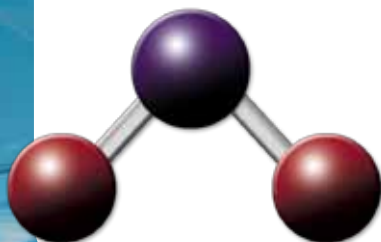
**Harden-off:** to gradually acclimatize a plant to a more harsh environment. A seedling must be hardened-off before planting outdoors.

**Hormone:** a naturally occurring or sythetic chemical substance that influence the development of a plant. An example of a commonly used agricultural hormone is: indole-3-butyric acid used in a wide variety rooting agents.

**Macronutrients:** the primary nutrients n-p-k or the secondary nutrients magnesium and calcium.

**Medium:** the substrate used to propagate plants. This includes rockwool, coir, hydroton, soilless mix etc.

**Micronutrients:** also referred to as trace elements, including s, fe, mn, b, mb, an and cu.





**Necrosis:** the death of plant tissue generally as a result of extreme nutrient complications, disease or pest damage.

**Nutrients:** the elements and compounds necessary for plants to sustain optimal growth and health. The major nutrients (macronutrients) are nitrogen (n), phosphorus (p), and potassium (k), but there are numerous micronutrients (also called trace elements) which also have integral roles in maintaining plant health. A good quality hydroponic nutrient formula will contain all of the major nutrients and micronutrients needed by the vast majority of plants.

**Nutrient solution:** a solution of water and water-soluble compounds which provide plants the nourishment in a hydroponic system.

**Nutrients, Secondary:** the elements other than n, p and k which are considered nearly as important as n, p and k but are not considered micronutrients. Calcium (ca), magnesium (mg), and sulphur (s) are the elements usually referred to by this term.

**Ph:** a scale whose ranges is from 1 to 14 and is used to indicate the alkalinity or acidity of a given solution.

**Perlite:** silica dioxide(sio<sub>2</sub>) which has been expanded by heat to increase the size and incidence of voids and pore spaces available at the surface.

**Photoperiod:** measurement of day length duration.

**Photosynthesis:** the process by which plants use light energy to collect carbon dioxide from the atmosphere and convert it to chemical energy in the form of complex sugars.

**Propagate:** the act of initiating plant growth.

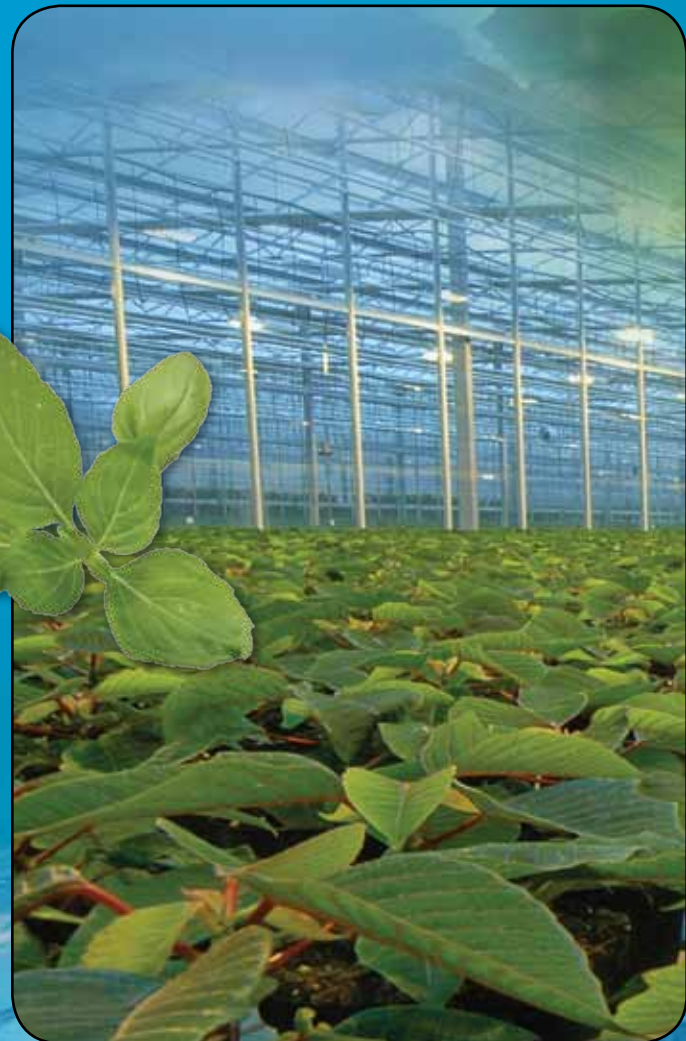
**Reservoir:** any suitable vessel used to store nutrient solution in a hydroponic system.

**Rockwool:** a soilless growing medium consisting of hair-like fibers made primarily from diabase, a mafic igneous rock and blended with limestone. This mixture is then heated to over 2900 degrees f and formed into slabs, cubes and blocks.

**Secondary Nutrients:** nutrients whose requirements by the plant are less on average than nitrogen, phosphorus and potassium yet more than micronutrients. Two examples of secondary nutrients would be calcium and magnesium.

**Systemic:** term used to describe a substance or pathogen that is taken up by the plant and distributed throughout the vascular tissue. Commonly used in reference to a disease or condition within a plant from an outside source. Also refers to materials and compounds which are taken up or absorbed by the plant and designed to fight disease or condition. (E.G. Systemic fungicide).

**Vermiculite:** mica which has been processed and expanded by heat. Vermiculite has excellent water-retention qualities and is a good soil amendment and medium for rooting cuttings.



# Lighting Glossary

**Ampere (Amp):** An ampere represents the amount of electrons passing a given point per unit time. Approximately  $6.242 \times 10^{18}$  electrons passing a given point each second constitutes one ampere.

**Arc:** The discharge of electricity between two electrodes.

**Ballast:** An auxiliary piece of equipment designed to start and to properly control the flow of power to gas discharge light sources such as fluorescent and high intensity discharge lamps. In metal halide systems, it is composed of the transformer, capacitor and connecting wiring; sodium systems require an ignitor in addition to the transformer and capacitor.

**Bulb:** The glass outer envelope that houses the arc tube.

**Capacitor:** An electronic device capable of holding a strong electrical charge. The charge is then released in a "one shot" fashion and as a result can pose a serious health risk to anyone unfamiliar with its operation.

**Cold Start Time:** The time it takes for a cold HID lamp to achieve a lumen output that is indicative of its functional range.

**Diffuse Reflection:** Type of reflection exhibited by a ray of light whose angle of reflection is not equal to the angle of incidence as a result of an irregular incident surface. The texture of the incident surface may be hard to discern as many high performance diffusion films are composed of nano-fibers and their structure is not perceptible to the naked eye.

**Kelvin Temperature Rating:** A common standard used to describe the color of light a lamp emits as perceived by the human eye. The temperature rating is derived from the light that is emitted from a "Theoretical Black Body Radiator" that starts at -273 C or absolute zero and is raised incrementally until it begins to emit light. As the temperature of the TBB is increased the color of light that is perceived by the human eye changes.

**Conversion Bulb:** A HID bulb designed to be used on either an HPS or MH regardless of its primary spectral output. Examples include HPS conversion bulbs that function on a MH system.

**Electrodes:** Filaments engineered to sustain an electrical arc in the void between them.

**Fluorescent Lamp:** A lamp that produces light by supplying current to electrodes contained within low-pressure argon filled tube. These electrodes excite a small amount of mercury amalgam contained with the aforementioned envelope and a portion of the mercury changes phase into a gas. As the charged atoms, electrons and gaseous mercury collide within the space the charged mercury atoms become excited and release photons in the

Ultraviolet spectrum these UV photons excite the phosphor coating located on the inside of the tube and photons within the visible light spectrum are produced as a result.

**Footcandle:** A unit of illuminance that is equal to the light emitted by one candle at a distance of one foot.

**Frequency:** The number of waves or cycles of electromagnetic radiation per second, usually measured in Hertz (Hz).

**High-Intensity Discharge (Hid) Lamp:** A general term for mercury, metal halide and high-pressure sodium lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

**High-Pressure Sodium Lamp:** High-pressure sodium lamps operate by igniting sodium, mercury and xenon gases within a sealed ceramic arc tube. Sodium lamps emit light energy in the yellow/red/orange regions of the spectrum; the red spectrum stimulates flowering and fruit production. Many indoor gardeners switch to sodium lamps when it is time to induce flowering or fruiting of their plants.

**Hood:** A generic term used to describe the lamp housing of an HID bulb.

**Hot Spot:** The area immediately under an HID lamp where the light intensity is strongest. Hot spots cause uneven growth, but can be remedied by using light movers.

**Hot Start Time:** The length of time required to bring an HID lamp to 90% light output after a short power interruption.

**Ignitor:** A component of the ballast necessary for the starting of the bulb in sodium systems.

**Incandescent Lamp:** A light source which generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it. Incandescent lamps are the most familiar type of light source, with countless application in homes, stores and other commercial settings. Light is produced by passing electric current through a thin wire filament, usually a tungsten. Incandescent lamps are totally ineffective as grow lights; they have very limited spectrum, are very inefficient in their conversion of electrical power to lumens of light output (lumen-to-watt ratio). They also put off far too much heat per watt to use in horticulture, even if the above-mentioned problems did not exist.

**Intensity:** A term referring to the magnitude of light energy per unit; light intensity diminishes evenly as you get further from the source.



**Kelvin Temperature (K):** The unit of measurement to express the color (spectrum) of light emitted by a lamp; the absolute temperature of a blackbody radiator having a chromaticity equal to that of the light source (see correlated color temperature). A standard clear metal halide HID lamp has an average Kelvin temperature rating of 4,000K.

**Lamp Life:** A measure of lamp performance, as measured in median hours of burning time under ANSI test conditions.

**Light:** Radiant energy that can be sensed or seen by the human eye. The term generally applied to the visible energy from a source. Light is usually measured in lumens or candlepower. When light strikes a surface, it is either absorbed, reflected or transmitted. Visible light is measured in lumens.

**Lumen:** A measurement of light output; refers to the amount of light emitted by one candle that falls on one square foot of surface located at a distance of one foot from the candle.

**Lux:** Is the standardized metric unit of luminous emittance and is useful when discussing the functional intensity of a lamp as perceived by the human eye.

**Metal Halide Lamp:** Nearly identical in their configuration, MH lamps differ from HPS addition of rare earth metal salts to the standard mercury vapor lamp. This design change leads to improved luminous efficacy and superior light color is obtained. However not unlike other HID lamps metal halide lamps operate under high pressure and temperature, and require special fixtures to operate safely. Originally created in the late 1960's for industrial use, metal halide lamps are now available in numerous sizes and configurations some specifically suited for use in indoor gardening.

**Mercury Vapor Lamps:** The oldest member of the HID family, mercury vapor lamps work by arcing electricity through mercury vapor. While more efficient than incandescent, halogen and fluorescent lamps, mercury vapor lamps have the least efficient lumen-to-watt ratio of the entire HID family. This, combined with an improper color spectrum for horticultural applications, makes mercury vapor lamps a poor choice for a grow light.

**PAR (Photosynthetically Active Radiation):** A unit of measurement used to describe the quality of light a given lamp emits as seen by the plant. PAR meters and their subsequent generated values indicate the quantity of light in the 350-750 nm range as this is what is regarded as useful for vegetative propagation. All other frequencies are exempted from the value.

**Parabolic Reflector:** A reflector fashioned in the shape of a parabola. Seen by many as an exceptionally efficient design however it has challenges

when applied to the traditional square or rectangular footprint of most indoor gardens.

**Phototropism:** The physiological response of a plant to an external light stimulus.

**Quantum Meter:** An instrument designed to measure instantaneous Photosynthetic Photon Flux (PPF) in  $\mu\text{mol m}^{-2} \text{s}^{-1}$ . This measurement is considered by many to be the only true method for determining the value of plant available light produced by a lamp.

**Reflector:** A term sometimes used to refer to the hood unit of an HID lighting system.

**Reflectivity:** The measure of the reflective quality of a surface; the relative ability of a given surface to reflect light away from it without absorbing, diffusing or otherwise compromising the light's quality, intensity and spectrum.

**Socket:** The threaded, wired receptacle that a bulb screws into.

**Sodium Lamp (High-Pressure Sodium Lamp):** High-pressure sodium lamps operate by igniting sodium, mercury and xenon gases within a sealed ceramic arc tube. Sodium lamps emit light energy in the yellow/red/orange regions of the spectrum; the red spectrum stimulates flowering and fruit production. Many indoor gardeners switch to sodium lamps when it is time to induce flowering or fruiting of their plants.

**Specular Reflection:** The reflection of a ray of light equal to the angle of incidence. This type of reflection is sometimes considered inferior for agricultural propagation to diffuse reflection due to the inherent hot spots created by the prior.

**Transformer:** The component in the ballast that transforms electric current from one voltage to another.

**U (For Universal):** An industry code indicating that the bulb can be operated in any position: horizontal, vertical (base up) or any other.

**Ultraviolet (Uv) Light:** Harmful to the human eye, UV light can be used for a myriad of other tasks including sterilization and inducing high level photo stress to a plant during the late stages of bloom to encourage an amplified fruiting or blooming response.

**Watt (W):** A unit used to measure electric power. One watt equals one joule/second.

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