



134 West Drive  
 Lodi, Ohio 44254  
 (330)302-4203  
 August 1, 2010

Call with questions, availability &  
 shipping rates

If you don't see what you need, we  
 can probably order it for you.  
 Give us a call at 800-321-5656

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## CO2 ENRICHMENT

Increasing the CO2 in the growing area will let the plant use the excess water and energy that is stored in the leaves. The result is a substantial increase (30-50%) in the growth rate of any plant. Enrichment should commence at sunrise or when photoperiod begins and refrain during darkness hours.

**CO2 Test Kit** for taking a simple manual air sample for CO2, 2 test tubes 1 syringe, instructions

Item # COTEST \$ 14.95

**Replacement tube** for testing

Item # COTUBE \$ 3.50

The CO2 enhancement system features a regulator for standard CO2 tanks, a timer and tubing.

**CO2 Enhancement System**

Item # CO22000 \$ 154.95

**CO2 Enhancement System, Large**

Item # CO22001 \$ 159.95

Cloning gels are used to dip cuttings for asexual propagation, or "cloning". They contain varying concentrations of the active ingredient, the hormone Indole Butyric Acid (IBA). Use a cloning solution or a weak bloom nutrient solution to encourage root growth.

Clonex rooting gel is tried and true. .3% I.B.A.

**Clonex Cloning Gel, 100 Milliliters**

Item # ROO1000 \$ 22.00

**Clonex Cloning Gel, 250 Milliliters**

Item # ROO1003 \$ 45.00

Clonex Clone Solution is a clone specific nutrient formulated using a special blend of minerals, vitamins, wetting agents and root promoters. It encourages rapid root development while helping to minimize stress.

**Clonex Clone Solution, 1 Quart**

Item # ROO1001 \$ 23.00

Olivia's Cloning Gel Stimulates rapid root development and feeds new cutting as they root with a 90% - 100% success rate. Eliminates transplant shock and promotes superior start and growth. For the home hobbyist or professional and for all plants; indoor and outdoor, hydroponics and soil. Safe and easy to use.

**Olivia's Cloning Gel, 4 Ounces**

Item # CLO2002 \$ 21.95

Olivia's Cloning Solution is a nutrient & propagation liquid that promotes vigorous growth & rapid root development for all types of plants, flowers, fruits & vegetables. Olivia's Cloning Solution contains nutrients and .3% IBA to get clones rooted fast.

**Olivia's Cloning Solution, 1 Quart**

Item # CLO2001 \$ 12.95

Dip 'n Grow Liquid concentrate, easily diluted with water. Proven formula that contains both rooting auxins recognized as root inducing (IBA and NAA)-all from one bottle. Allows the rooting hormones to be absorbed into the cutting stem more evenly and easily, increasing rooting success over the leading powders.

**Dip 'n Grow, 2 Ounces**

Item # DIP1000 \$ 8.95

Dyna-Gro KLN Contains Vitamin B1 and rooting hormones: IBA and NAA K-L-N. Promotes root growth in trees, foliage and flowering plants. For propagating cuttings, air layering, and transplanting drench for bare-root stock and newly potted plants. Drench, dip or mist your plants to stimulate new root growth.

**Dyna-Gro KLN, 8 Ounces**

Item # KLN1000 \$ 9.95

Hygrozyme Premiere horticultural enzymatic formula.

Enzymes are natural and environmentally friendly. They are catalysts and speed up chemical reactions. Enzymes in a growing medium eat dead protein, removing areas where illness develops. Through this breakdown process plants are better able to obtain nutrients. More nutrients, less attacks, allowing plants to grow bigger, stronger, and faster.

**Hygrozyme, 500 Milliliters**

Item # HYG3002 \$ 21.95

**Hygrozyme, 1 Liter**

Item # HYG3000 \$ 36.99

**Hygrozyme, 4 Liter**

Item # HYG3001 \$ 135.25

## ENVIRONMENTAL CONTROL

Note: M.H.= Metal Halide, best for vegetative growth H.P.S.= High Pressure Sodium, best for fruiting and flowering  
We recommend high intensity fluorescent lighting for starting seedlings and rooting cuttings

### H.I.D. Lighting Systems

#### H.I.D. Lighting Ballasts

Hydrofarm's Xtrasun series ballasts feature on/off switches, detachable cord sets and are backed by Hydrofarm's new extended 5 year warranty, the longest in its class.

<b>400 Watt M.H. Ballast</b>	Item # LIG5804	\$ 129.95
<b>1000 Watt M.H. Ballast</b>	Item # LIG5805	\$ 179.95
<b>400 Watt H.P.S. Ballast</b>	Item # LIG5803	\$ 159.95
<b>600 Watt H.P.S. Ballast</b>	Item # LIG5806	\$ 199.00
<b>1000 Watt H.P.S. Ballast</b>	Item # LIG5802	\$ 199.00

Lumatek E-ballast is more than a dimmable ballast, the new Dial-A-Watt Lumateks allow you to power a multitude of different wattage lamps or the same ballast, giving gardeners total control of their lights. The ballasts power both metal halide and high pressure sodium lamps. Brightest and most reliable E-ballast available and can be dimmed to 50%. It can power different wattage lamps on the same ballast. Up to 10% more light at the flip of a switch. Internal resin coating protects components for long life and external breaker system protects against power surges. Completely silent. 3 years full + 2 years pro-rated warranty.

<b>Lumatek E-Ballast, 400 Watt</b>	Item # LIG5809	\$ 189.95
<b>Lumatek E-Ballast, 600 Watt</b>	Item # LIG5808	\$ 249.95
<b>Lumatek E-Ballast, 1000 Watt</b>	Item # LIG5807	\$ 399.95

XtraSun Convertible Ballast Reliable service at value prices. The unique patented aluminum housing with convection cooling runs so cool there is a 5 year warranty. Dual voltage. Aluminum fins, louvers and ports for extra cooling efficiency. Compatible with all Hydrofarm reflectors.

<b>XtraSun 400 Watt switchable ballast</b>	Item # LIG5801	\$ 179.95
<b>XtraSun 1000 Watt switchable ballast</b>	Item # LIG5800	\$ 209.95

Sunburst Convertible A ballast and a reflector in one unit. Easy to switch from sodium to halide. Delivering more usable light energy for maximum plant performance and operating at cooler, quieter levels than any other compact system on the market. BULB NOT INCLUDED.

<b>Sunburst Convertible, 400 Watt</b>	Item # LIG3005	\$ 200.00
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### H.I.D. Reflectors:

XtraSun 6" White Reflector Air Coolable is offering excellent performance at a cost effective price. Solidly built, compatible with all Hydrofarm or XtraSun ballasts. Bright and broad light delivery. Super air coolable. built in socket and cord set. Completely sealed removable lens system for easy bulb exchange.

<b>Air Coolable Reflector</b>	Item # LIG5851	\$ 104.95
<b>XtraSun Air Coolable Reflector</b>	Item # LIG5860	\$ 64.95
<b>XtraSun Wing Reflector- Aluminum</b>	Item # LIG5850	\$ 41.95
<b>XtraSun Lens</b>	Item # LIG5852	\$ 18.50
<b>ALL System Cord set</b>	Item # LIG8001	\$ 29.95

DayStar Reflector is fully lined with 95% reflective, 99.85% pure German Specular MIRO Aluminum. Engineered interior shape allows bright uniform light distribution without diffusers. Unique and patented built in double wall cooling runs cooler than all others. High temperature premium powder-coated surface will last a lifetime of use. Pre-galvanized steel housing prevents corrosion.

<b>DayStar Reflector</b>	Item # LIG0034	\$ 129.95
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### High Intensity Grow-Light Bulbs

<b>400 Watt M.H.</b>	Item # LIG2003	\$ 29.95
<b>1000 Watt M.H.</b>	Item # LIG2004	\$ 74.95

Agrosun Gold Halide Spectrally enhanced halides are the best all-purpose growth and fruiting/flowering light you can use. They emit more of the red wavelengths than the common halides. They are the "Gold Standard" in plant growth lighting

<b>400 Watt M.H. Agrosun Gold</b>	Item # LIG5001	\$ 74.95
<b>1000 Watt M.H. BT-37 Agrosun Gold</b>	Item # LIG5010	\$ 119.95

EYE Hortilux Hortilux Super HPS Enhanced Spectrum grow lamps fine-tune your lighting system to provide optimum spectral energy levels that promote vigorous plant growth. The EYE Super HPS EN Grow Lamps provide 17% more total energy and 25% more energy in the violet, blue, and green spectrum than standard High Pressure Sodium lamps. These lamps are environmentally friendly and pass EPA, TCLP test criteria as non-hazardous waste.

<b>400 Watt H.P.S. Hortilux</b>	Item # LIG2014	\$ 92.95
<b>430 Watt H.P.S. Hortilux</b>	Item # LIG2014A	\$ 95.95
<b>600 Watt H.P.S. Hortilux</b>	Item # LIG2015	\$ 117.95
<b>1000 Watt H.P.S. Hortilux</b>	Item # LIG2016	\$ 119.95

400 Watt H.P.S.

Item # LIG2006 \$ 25.95

600 Watt H.P.S.

Item # LIG2017 \$ 88.24

1000 Watt H.P.S.

Item # LIG2007 \$ 66.95

## High Intensity Fluorescent Lighting Systems

### Fluorescent Grow Light Fixture

Item # LIG0003A \$ 79.95

125 Watt "Cool/Daylight" Bulb for vegetative growth

Item # LIG0004 \$ 31.00

125 Watt "Warm" Bulb (encourages fruiting/flowering)

Item # LIG0004A \$ 59.95

T5 Designer Series delivers performance, flexibility and high lumen output in any growing environment. These daisy-chainable systems allow you to choose multiple hanging configurations to meet your garden's design. They combine German specular aluminum with energy-efficient/high-output T5 bulbs and put out double the light energy of normal fluorescent systems. 5 year warranty

T5 4' - 4 Bulb Fluorescent Fixture

Item # LIG0016 \$ 159.95

T5 4' - 6 Bulb Fluorescent Fixture

Item # LIG0017 \$ 209.95

T5 4' - 8 Bulb Fluorescent Fixture

Item # LIG0018 \$ 259.95

T5 48" Single fixture with Bulb

Item # LIG0037 \$ 32.95

T5 High Performance 4Ft System with wings

Item # LIG0038 \$ 48.95

Fluorescent Replacement Bulbs:

GroLux 48" wide spectrum tube, 40 watt

Item # LIG4800 \$ 8.05

GroLux 48" standard tube, 40 watt

Item # LIG4804 \$ 12.60

Agrosun Full Spectrum Fluorescent is for seedlings, cuttings, and plants like African violets, orchids, flowering bulbs, vegetables and smaller houseplants. They're great under counters, on shelf gardens, with plant carts or on a bench. Strongest full spectrum fluorescent - up to 20% brighter than other brands

Agrosun 48" Fluorescent tube, 40 watt

Item # LIG4900 \$ 16.95

Lighting Accessories, Meters & Light Movers

The Easy Glide Light Hanging Kit is ideal for all your light and reflector hanging needs. It features easy push button and glide action to adjust your reflectors or lights for optimum performance. The all-metal construction features a 6 1/2 foot cable that holds up to 44 pounds per Easy Glider. Each package features 1 pair of Easy Gliders.

Easy Glider Hanging System, 2pk

Item # EAS1000 \$ 19.95

SunRise Reflector Hanging System Hang reflectors with an easy one flip adjusting light toggle. Adjust hang height of the light with the growth rate of the plant. Makes control simple and efficient so you get better growth. Includes hanging hooks, two SunRise hangers and instructions

Light Hanger (adjustable)

Item # LIG0021 \$ 19.95

Quantum Light Meter

Item # LIG1000 \$ 567.95

Digital Light Meter measures grow lights or sunlight up to 5000 footcandles. 3 scales for precise readings with a convenient hand-held remote sensor. The meter includes lifetime silicon cell battery, informative booklet with lighting recommendations and carrying case.

Digital Light Meter

Item # LIG1100 \$ 44.95

Light Meter allows commercial growers an accurate means of adapting to their plants' needs as the light conditions change during a full growing season. This meter identifies the best light level of healthy plants and is easy to use in a hand-held design. The meter includes instructions and "Consumer's Guide to Light Gardening" brochure. The meter reads up to 5000 footcandles of sun, high intensity or fluorescent light. Exclusive "Zero" calibration feature - accurate to 2%. 2 year warranty.

HydroFarm Light Meter

Item # LIG1200 \$ 22.95

Robo Stick Lamp Stabilizer to stabilize lights hanging from Light Rail

Item # LIG0010 \$ 31.95

9RPM Motor with 2- 3 ft Light Rails

Item # LIG0008 \$ 234.95

We carry 2mm thick MYLAR to reflect maximum light back onto your indoor garden. 4 1/2' wide roll. Film makes the most efficient use of your lighting by reflecting light onto your plants. Reflective metalized film is the best reflective material made - mirror-like efficiency!

54" x 25'

Item # MYL1001 \$ 17.95

54" x 50'

Item # MYL1002 \$ 29.95

54" x 100'

Item # MYL1003 \$ 49.95

## Fans, Air Duct Tubing

We recommend an oscillating fan to encourage plants to develop strong stalks and to prevent mold diseases.

### 16" Oscillating Wall Mount Fan

FAN0006 \$ 34.95 Special Order

Active Air In-Line Duct Fans has quiet operation. Durable ceramic-coated metal housing. UL recognized components. High quality molded impeller. Thermally protected AC motor. Includes mounting brackets. Includes 8 Foot Pre-wired 120v cord

**Active Air 4" Inline Fan**, 120 volts, 60Hz, 0.95 Amps, 113 Watts, 2910 RPM, 165 CFM

Item # FAN0007 \$ 109.95

**Active Air 6" Inline Fan**, 120 volts, 60Hz, 0.97 Amps, 115 Watts, 2911 RPM, 400 CFM

Item # FAN0008 \$ 144.95

**Active Air 8" Inline Fan**, 120 volts, 60Hz, 1.72 Amps, 198 Watts, 2530 RPM, 720 CFM

Item # FAN0009 \$ 184.95

The RS family of inline exhaust fans provide the power and flexibility needed for residential and commercial applications. The RS series all utilize the extremely reliable external rotor motor and reverse curve blade, available with 6" pre-wired cord

**Can Fan RS4 High Output, 4"**, 178 CFM, 2600 RPM, 115 Volts, 78 Watts, 1.15 Amps, 5.5 Sones

Item # CANFANRS4HO \$ 186.66

**Can Fan RS6 High Output, 6"**, 440 CFM, 2940 RPM, 115 Volts, 138 Watts, 1.15 Amps, 12 Sones

Item # CANFANRS6HO \$ 226.66

**Can Fan RS8 High Output, 8"**, 737 CFM, 2950 RPM, 115 Volts, 283 Watts, 2.36 Amps, 10.5 Sones

Item # CANFANRS8HO \$ 284.34

MaxFan is an inline mixed flow fan capable of medium to high static pressure. Aerodynamically optimized airflow, quiet operation, and extremely high efficiency.

### Can Max Fan, 8"

Item # CANFAN8MAX \$ 286.65

Perma Duct has superior performance in premium air ducting. The ducting is air-tight, easy to install, and resists tearing and punctures. The smooth interior also aids in noise reduction. Set of 2 stainless steel clamps included.

### 4" Air Duct 25'

Item # LIG4009 \$ 20.95

### 6" Air Duct 25'

Item # LIG4016 \$ 29.95

### 8" Air Duct 25'

Item # LIG4017 \$ 38.95

**Light System Cool Kit** The best way to get the most from your unit- exhausting heat and cooling your growing area in warm climates or, in cool winter conditions, to recirculate warm air for heating. The kit includes two exhaust fan flanges, one reflector vent cover, flange screw mounting packs and one 20" long self stick foam weather strip. The kit fits Powerhouse (all), Daystar (DAUN), Radiant - all vents, Xtrasun (XT1AC), Sunburst

### Light System Cool Kit

Item # LIG4006 \$ 21.95

## GROWING ACCESSORIES

### Pots

Square Pot, 4.5 Inch

Item # SQU1001 \$ 0.37

Square Pot, 6 Inch

Item # SQU1002 \$ 1.20

Square plastic pots, 5.5 Inches

space saving, great for sea of green style

Item # SQU1000 \$ 0.86

Nursery Pot, 1 gallon

Item # NUR1000 \$ 0.70

Nursery Pot, 2 Gallon

Item # NUR1001 \$ 1.06

Nursery Pot, 3 Gallon

Item # NUR1002 \$ 1.25

Nursery Pot, 4 Gallon

Item # NUR1003 \$ 1.53

Nursery Pot, 7 Gallon

Item # NUR1004 \$ 2.55

Giant Square Pot, 18 Liter

Item # GIA1000 \$ 4.50

Rose Container Square, 6.5 Liter

Item # ROS1000 \$ 2.95

Net Pot, 2 Inch

Item # NET1000 \$ 0.25

Net Pots, 3.75 Inch

Item # NET1007 \$ 1.39

Net Pot, 6 Inch

Item # NET1005 \$ 1.50

3" Net Pot G8R, 3 Inch

Item # NET2000 \$ 0.25

Net Cup GH, 3 Inch

Item # NET3000 \$ 0.35

### White/Black Polyfilm

Great to create or section off a grow area- white on the inside to reflect, black on the outside. Thick and tough!

White on black plastic film, 4 mil

10' x 100'

Item # FIL0003 \$ 81.95

10' x 100'

Item # FIL0006 \$ 80.00

10' x 50'

Item # FIL0004 \$ 41.00

10' x 10'

Item # FIL0003 \$ 8.50

10' x 25'

Item # FIL0007 \$ 21.25

### Trays

for do it yourself Ebb and Flow systems

The Active Aqua line is true, full-size dimensions and volume to provide maximum growing area

Made from durable, high-impact ABS plastic with UV resistance for longevity

The trays have superior grid pattern design and multi level drainage channels to promote fast and thorough drainage with multi drain positions for versatility in set-ups. They have stronger corners and thicker all around than others in their class and rounded corners for easy cleaning. The gradation inside accurately assesses optimal water level.

Black Flood Tray, 2' x 4'

Item # TRA3004 \$ 57.95

Black Flood Tray, 4' x 4'

Item # TRA3005 \$ 95.95

Black Flood Tray, 4' x 8'

Item # TRA3007 \$ 199.95

White Heavy Duty Tray by ABS is a ribbed stress engineered for complete drainage and maximum strength.

White Flood Tray, 3' x 3'

Item # TRA3002 \$ 114.95

Dutch Leach Tray Kit with 2 elbows, 6" x 20"

Item # LEA1000 \$ 15.55

Tray for Quantum Systems, 10" x 38" x 2-1/2"

Item # QUA1000 \$ 17.00

Dutch Bato Bucket with Elbows

Item # BAT0001 \$ 6.50

### Reservoirs

Botanicare's MULTI-RES Reservoir is designed for simplicity in maintenance and performance. Each reservoir comes with a specially designed lid containing an access port and a raised grip porthole cover. This standard option allows the gardener easy access to the reservoir without taking the entire lid off, ensuring a more functional routine when adding solutions, nutrients and water to your reservoir. The MULTI-RES Reservoir also comes equipped with built-in bulkhead ports in front and on each side, enabling the grower to add a centrifugal pump outside the reservoir. This feature also gives the gardener the ability to join reservoirs together in-line or side by side to achieve increased water volumes.

Lid, 20 Gallon

Item # RES2000 \$ 37.25

Reservoir, 20 Gallon

Item # RES2001 \$ 54.50

Lid, 40 Gallon

Item # RES2002 \$ 50.95

Reservoir, 40 Gallon

Item # RES2003 \$ 79.95

Reservoir and Lid, 20 Gallon

Item # RES1998 \$ 91.50

Reservoir and Lid, 40 Gallon

Item # RES1999 \$ 129.95

## Timers

Digital Adjustable Recycling Timer- The ART series of adjustable recycling timers control any application requiring a device to be turned ON and OFF at precise intervals. The ART-DNe Digital Adjustable Recycling Timer, has a 5-20 Min. On and 12-480 Min. Off intervals. 5 Amp @120vac

### Digital Adjustable Recycling Timer

Item # TIM5000 \$ 84.95

Using a timer to automate your lighting adds convenience and encourages productive growth with consistent hours of light. Timers are also essential for all hydroponic system applications. Timer features 1 Minute On/Off, Up to 8 On/Offs per day, 15 Amp, Excellent for hydro systems and includes convenient clam shell packaging.

### 7 day digital 14 on/off cycles

Item # TIM2008 \$ 36.45

Using a timer to automate your lighting adds convenience and encourages productive growth with consistent hours of light. Timers are also essential for all hydroponic system applications. Timer features 15 Minute On/Off, 15 Amp and includes convenient clam shell packaging.

### Heavy Duty 3 Prong Timer

Item # TIM2005A \$ 13.95

## Parts for building your own growing system

### Overflow Fitting for Ebb and Flow tray

Item # EBB0001 \$ 9.95

### Fill and drain fitting for Ebb and Flow tray

Item # EBB0002 \$ 4.60

### Feed Tube (5/3 spaghetti tube)

Item # FEE0054 \$ 0.06

### Blue Tubing, 1/2 Inch, per foot

Item # FEE0100 \$ 0.50

### Poly Pipe, .57" interior diameter, per foot

Item # FEE2000 \$ 0.16

### Insert Coupling, 1/2 inch

Item # FEE2003 \$ 0.59

### Insert Tee, 1/2 Inch

Item # FEE2005 \$ 0.87

### Insert Elbow, 1/2 Inch

Item # FEE2006 \$ 0.67

### Line end, 16 mm

Item # FEE2002 \$ 0.21

## Emitters for drip systems:

### Pressure Compensated emitter, 2 gallons per hour (GPH)

Item # EMI1000 \$ 0.45

### Pressure Compensated emitter, 6 GPH

Item # EMI1001 \$ 0.60

### Pressure Compensated emitter, .5 GPH

Item # EMI1002 \$ 0.45

### Pressure Compensated emitter, 1 GPH

Item # EMI1004 \$ 0.45

### Emitter Nipple, 5mm

Item # EMI1005 \$ 0.15

### Non-pressure Compensated emitter, .5 GPH

Item # EMI1006 \$ 0.42

### Non-pressure Compensated emitter, 1 GPH

Item # EMI1007 \$ 0.42

### Non-pressure Compensated emitter, 2 GPH

Item # EMI1008 \$ 0.42

### Barbed Stake Guide

Item # STA1004 \$ 0.15

### Stabilizer Pegs

Item # STA1000 \$ 0.14

### Plastic Poly line punch (for punching holes in 1/2 feed line for emitters elbows/tees/etc.)

Item # PUN2000 \$ 16.16

### Miracle Punch

Item # PUN5000 \$ 19.95

### Yellow Key Punch

Item # PUN6000 \$ 1.00

### Goof Plugs, 10(to plug holes made in the wrong spot)

Item # GOO1000 \$ 1.00

## Grommets:

### 1/4" 6mm. Grommet

Item # GRO7000 \$ 0.54

### 1/2" 13mm. Grommet

Item # GRO7001 \$ 0.63

### 5/8" 16mm. Grommet

Item # GRO7002 \$ 0.63

### 3/4" 19mm. Grommet

Item # GRO7003 \$ 0.90

### Truss hook, J type, per 500

Item # TRU7000 \$ 20.00

## Filters

**3/4" Arkal filter**

Item # STR1009 \$ 19.70

**1" Arkal Filter**

Item # STR1010 \$ 66.00

## Seed Trays

Fit the pads of rockwool starter cubes or use with inserts & any grow media.

**Seed Tray without holes**

Item # TRA1101 \$ 1.70

**Seed Tray with holes in bottom**

Item # TRA1100 \$ 1.70

**72 Hole Insert** (fits inside TRA1101)

Item # TRA0072 \$ 2.97

**162 hole insert** (fits inside TRA1101)

Item # TRA1102 \$ 0.95

**Web bottom seedling tray** (fits inside TRA1101)

Item # TRA1104 \$ 1.45

Humidity Domes fit on standard and rapid roofer starter trays and keep seedlings or clones moist until they develop root systems. We recommend using these and propagation mats for a fast healthy start with seeds or clones.

**2.5" Humidity Domes**

Item # DOM3000 \$ 2.95

**7" Humidity Domes**

Item # DOM6000 \$ 5.95

Seedling Heat Mat has been re-engineered for better performance and greater durability! The new, stronger heating wire and thicker multi-layer construction offer more uniform heating and the durability to withstand rugged greenhouse environments. The mat increases success of seedlings and cuttings by warming root area 10-20°F over ambient temperature to improve germination. Waterproof construction. The only UL Listed seedling heat mats on the market!

**Seedling Heat Mat, 9" x 19.5"**

Item # PRO5000 \$ 24.95

**Seedling Heat Mat, 20" x 20"**

Item # PRO1002 \$ 46.95

Digital Temperature Controller for Heat Mat with greater accuracy. The heat mat provides constant optimum temperatures for specific crops by controlling temperature in colder or warmer environments.

**Digital Temperature Thermostat**

Item # THE1000 \$ 32.95

## Pumps

Little Giant NK-1 Submersible Pump is for commercial, industrial, and home use worldwide where liquid must be transferred or recirculated. The pump includes corrosion-resistant nylon housing, sump-type screened inlet and is thermally protected. 1/4" MNPT outlet accepts 1/2" I.D. tubing. 210 GPH @ 1 ft

**NK-1 Submersible Pump**

Item # PUM1000 \$ 102.00

Little Giant NK-2 Submersible Pump is for commercial, industrial, and home use worldwide where liquid must be transferred or recirculated. The pump includes corrosion-resistant nylon housing, sump-type screened inlet and is thermally protected. 1/4" MNPT outlet accepts 1/2" I.D. tubing. 325 GPH @ 1 ft

**NK-2 Submersible Pump**

Item # PUM2000 \$ 123.00

Little Giant 5 MSP Pump includes a garden hose adapter, removable bottom inlet screen for easy cleaning, a lifetime oil supply, 1/6 HP thermally protected, shaded pole motor and epoxy-coated cast aluminum housing. The pump has a 1" FNPT outlet and pumps down to 1/8" (3.2 mm.) with a 1200 GPH @ 1' maximum flow rate.

**Little Giant 5 MSP**

Item # PUM3500 \$ 137.34

Active Aqua 400 GPH has a powerful mag drive construction with an one year warranty. The pump is for indoor and outdoor use, Oil free and environmentally safe. Pump includes removable foam filters and impellers. Recommended for a 40 gallon reservoir. 25 Watts / 120 VAC

**Aqua 400, 1/2" discharge 400 GPH**

Item # PUM8000 \$ 26.95

This energy-efficient Maxi-Jet Pump has sealed casing and internal design ensure that, unlike most pumps, it won't overheat if it runs dry. It features a 3-suction cup mounting to stabilize a reservoir pump. Dual pre-filters and simple design makes the pump easy to care for.

**Maxi-jet 250 1/2" discharge 78 GPH**

Item # PUM1501 \$ 18.95

**Maxi-jet 1000 1/2" discharge 288 GPH**

Item # PUM1500 \$ 29.95

EcoPlus Pump Protector Filter Bag -submersible pump is inserted into this filter bag to prevent sediment from clogging it. Use of the filter bag will prolong the life and reduce cleaning/maintenance of the pump. Drawstring closure allows easy access to pump.

**Pump Filter Bag**

Item # PUM9000 \$ 11.50

## Hydroponic Systems

Modern hydroponic technology allows growers to produce crops year-round and virtually anywhere, with bigger, faster yields and less work and water use than traditional soil farming. These systems come complete with everything you need to get growing right out of the box.

Eurogrower from General Hydroponics features 8 drip-fed 2 gallon pots set on a custom 40-Gallon Panda reservoir. Dimensions (2'2" x 4'5", 1'2" high)

**Eurogrower complete system**

Item # EUR1000      \$ 616.65

The AeroFlo2 twenty site system is an excellent choice for growing small crops such as lettuce, cucumbers, peppers, basil, and other herbs. Varieties of flowers and tomatoes, which do not grow taller than three feet, will also do well. The AF220 system includes everything you need to get started.

**AeroFlo2, 20 site** (1'6" by 7')

Item # AER1000      \$ 421.67

The AeroFlo2 30 is a perfect system for those who want a smaller high performance system. With a 20-gallon reservoir and thirty plant sites, the 3 grow chambers can be kept side-by-side or fanned out in a radial pattern to maximize growth on lower branches. It is excellent for growing lettuces, basil and other smaller plants up to three or four feet in height.

**AeroFlo, 30 site** (2'6" by 7')

Item # AER1001      \$ 559.98

AeroFlo 2 with 36 sites is designed specifically for indoor cultivation under a grow light, the AF236 site system offers 36 plant sites in a compact footprint. It also features the generous 40-gallon Panda reservoir. Recommended for 600 or 1000 watt light.

**AeroFlo 2, 36 sites** (4'2" by 4'7")

Item # AER1002      \$ 937.74

The largest AeroFlo2 unit, the AF260, features sixty plant sites. Growers who wish to expand this system can enjoy a total of one hundred and twenty plant sites with the addition of our AeroFlo2 60 Extension Unit. Users can choose either to configure the grow chambers on the same side or to stagger them in order to cover a larger area or to grow larger plants. The AF260 and Extension Unit feature the generous 40 gallon Panda reservoir

**AeroFlo 2, 60 site** (6' by 6')

Item # AER1004      \$ 1,173.33

Econo Grow systems offer a simple, versatile, affordable ebb and flow package. This includes one or two 3' x 3' trays (.125" thick), galvanized steel table frame, and injection molded plastic corners, submersible pump, American Hydroponics Fitting Kit and 30 gallon black ABS reservoir. Purchase pots, media, and nutrients separately.

**Econo 1 table system** (3' x 3' x 19")

Item # ECO1000      \$ 399.95

**Econo 2 table system** (3' x 6' x 19")

Item # ECO1001      \$ 579.95

Home & Hobby Nutrient Film Technique (NFT) Systems by CropKing Inc. are re-circulating systems designed for growing fresh greens and flowers like the pros at home year-round.

The Greens Kit 2001 includes 6 NFT channels with 36 growing spaces for lettuce, herbs and small flowers. End caps and removable top caps for easy cleaning. Nutrient feed line plumbing and drain lines included with submersible pump.

**Green 2001 NFT Kit**

Item # GRE1000      \$ 299.95

The Green 1001 Leaf and Vine Crop Kit includes 4 NFT channels with 24 leaf crop growing spaces and 1 NFT Channel with 4 larger growing spaces for vine crops. Includes 4 – 6" net pots, 4 litres of leca stones and 4' x 4' trellis netting. End caps and removable top caps for easy cleaning. Nutrient feed line plumbing and drain lines included with submersible pump.

**Green 1001 Leaf & Vine Crop Kit**

Item # GRE1001      \$ 329.99

The Waterfarm from General Hydroponics is a hydroponic drip system built into an attractive 2 gallon square planter driven by an included air pump. The air pump super oxygenates the roots for fast growth and healthy plants. The WaterFarm is built out of high-impact plastic to assure a long service life. The WaterFarm has a unique square design allowing growers to closely pack WaterFarm modules in order to create large, high-density installations. The WaterFarm will grow small, medium, and large plants. With its large water capacity and low water requirements, the WaterFarm is simple and efficient. As it offers all the features of larger systems at a lower cost without sacrificing quality or performance, the WaterFarm is one of our very best buys. Each unit measures 10"x 10" by 15" high.

**Waterfarm standalone Unit**

Item # WAT2000      \$ 65.63

Farm Kit is used to make your own waterfarm. It includes a drip-ring, pumping column, column support tube, 1/2" grommet, and drain level tube.

**Farm Kit**

Item # WAT2401      \$ 14.30

WaterFarm 8-pack is eight WaterFarm module units connected to one General Hydroponics Controller: an integrated 13 gallon reservoir and an 8 gallon controller unit. The Controller will keep each unit topped off with the correct level of nutrient for low maintenance. The kit is powered by GH's Dual Diaphragm Air Pump, and includes all the necessary hardware, supplies and General Hydroponics Flora Series nutrients. The grower can arrange the WaterFarm units in a design that is suitable for any environment. Pack them tight or space them out for your growing situation. The WaterFarm 8-Pack is the system for big growers.

**Waterfarm Controller Kit, 8 pack**

Item # WAT2300      \$514.60

**Water Farm Control Kit**

Item # WAT2400      \$ 79.75

Powergrower is very similar to the Waterfarm, except it is housed in a larger, more decorative housing made to resemble an Italian clay pot. This unit also can stand alone or many can be run by a Waterfarm controller. Includes nutrient and grow rocks.

**Powergrower** (15.5" diameter, 16" high)  
Item # POW1000 \$ 80.12

Emily's Garden by HydroFarm is a great starter kit for the beginner. 6 square pots sit in a pump aerated nutrient solution. Complete with leca stone growing media, rockwool seed starter cubes, pH test kit, nutrient, and more. This is a passive system and it is not recommended for plants with high water and nutrient needs like tomatoes.

**Emily's Garden** (16"x 24", 6" high)  
Item # HYD3000 \$ 89.95

Homegarden by HydroFarm is a passive complete system much like Emily's Garden (above), except plants sit directly in a tray filled with growing media and it had a narrow profile perfect for a windowsill.

**Homegarden** (28" by 9", 10" high)  
Item # HYD1060 \$ 64.95

Megagarden by HydroFarm is a true ebb & flow system in a compact package. The garden pumps nutrient solution up from a reservoir to a controlled water level tray. All plants are watered uniformly on a timed cycle. Complete with pump and timer, seed starter cubes, pH test kit, leca stone growing medium, 15 planters, and instructions.

**Megagarden** (22" x 22", 10" high)  
Item # HYD3010 \$ 179.95

## Cloning

EZ-Clone is the top of the line cloning machine on the market. Custom made to ensure fast, effective rooting of clones. All EZ-Clone products have the highest quality plastic and parts available on the market, including Danner Mag Drive Pumps, and all are proudly made in the USA. The Mag Drive Pumps come with a full one year manufacturer's warranty. Get guaranteed results now with rooting in 5 days with 100% success. EZ-Clone features custom Neoprene Collars and many spray heads ensure maximum aeration and coverage of roots with nutrient solution. The system has a high flow-rate irrigation system, external air intake system, leak resist lid and deep lid base for easy access.

**EZ-Clone 30** (22.5"x 17", 15" high)  
Item # EZC1000 \$ 309.95

**EZ-Clone 60** (32.5"x 19.5", 15" high)  
Item # EZC1001 \$ 354.95

**EZ-Clone 120** ( 120 plant sites )  
Item # EZC1002 \$ 454.95

Custom made neoprene collars are pre-slit for easy insertion of cuttings.

**EZ-Clone Inserts**  
Item # EZCNI \$ 0.45

**EZ-Clone Replacement Spray Head**  
Item # EZCSPJ \$ 0.50

## Growing Media

Light Warrior from Foxfarm is formulated for use in containers and hydroponic applications. Specially designed to enhance root development and encourage greater nutrient uptake by plants. Light Warrior is an excellent medium for starting seeds, transplanting, and growing plants both indoors and outdoors.

**Light Warrior, 1 Cubic Foot**  
Item # FOX1001 \$ 17.95

Ocean Forest is a powerhouse blend of premium earthworm castings, bat guano, and Pacific Northwest sea-going fish and crab meal. Composted forest humus, sandy loam, and sphagnum peat moss give Ocean Forest its light, aerated texture. Start with Ocean Forest and watch your plants come alive!

**Ocean Forest, 1.5 Cubic Foot**  
Item # FOX1000 \$ 17.95

Planting Mix is ready to use right out of the bag. The mix is exceptional for raised bed planting and amending existing garden beds. It contains premium select earthworm castings, bat guano and micros.

**Planting Mix, 1 Cubic foot**  
Item # FOX1002 \$ 16.95

Earthworm Castings from Wiggle Worm Soil Builder PURE earthworm castings are surely Mother Nature's best kept growing secret. You need only use a small amount in or around your houseplants, vegetables and flowers. The miracles of the earthworm are easily seen in the beautiful growth and yields of your plants. The nutrients in our earthworm castings are plentiful. Most importantly, these nutrients are perfectly balanced in two forms. One form can be immediately absorbed by the plant as if it were directly injected and the other is able to provide nutrition which slowly feeds the plant for long periods of time. This soil builder is very cost effective because small amounts provide incredible results and last a long time.

**Earthworm Castings, 15 Pound**  
Item # WOR1001 \$ 13.95

**Earthworm Castings, 30 Pound**  
Item # WOR1000 \$ 17.95

Sunshine Mix is used for commercial greenhouses. It is recommended where high air capacity and fast drainage are needed: during winter months, with water and salt sensitive crops, or where frequent leaching is required.

**Sunshine Mix 8 Potting Soil, 2.8 Cubic Foot**  
SUN5001 \$ 15.00

**Sunshine Mix 8 Potting Soil, 3.8 Cubic Foot, Bale**  
SUN5002 \$ 26.00

Roots Organics Natural & Organic Potting Soil is 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 twenty-four 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. Coco fiber is a great medium and an excellent replacement for peat moss; it is an environmentally friendly by product, pH stable within the ideal range for nutrient uptake, and because the Lignin content is slow to decompose. Roots Organics Coco soilless mix was created for the gardener who demands higher performance from their plants.

**Roots Organics Potting Soil, 1.5 Cubic Foot**  
Item # ROO1101      \$ 21.95

Grodan Stonewool (rockwool) is made from molten rock spun into cotton candy-like fibers and then compressed into cubes, blocks, or slabs. Where other rockwool brand manufacturers cut all sizes from one batch of wool, Grodan is unique by making different types of fibers. The purpose is to support the requirement of the plant in the different plant stages. Grodan has a tremendous capacity for absorbing nutrient solution while retaining plenty of oxygen for rapid plant growth. Grodan comes in graduated sizes. Seedlings started in cubes are easily transferred to blocks and then onto slabs, if desired. Seedlings or cuttings started in the Grodan cubes can also be transplanted into more traditional planters and growing mediums.

Grodan A'OK plugs are designed for seed and cutting propagation prior to "blocking on" into larger growing blocks. The V-shape design of the plug discourages tangling of roots between the plugs in the A'OK plug sheet. A'OK plugs come in a sheet that fits a standard 10x20 flat. (fits in seed tray TRA1101)  
**AO36/40, 1.5 Inch starter cubes, 98/ pad**  
Item # ROC1008      \$ 9.83

Grodan A'OK renewed plugs result in a maximum number of useable and homogeneous seedlings. Both form and strength have been greatly improved for good machine and manual processing. Whether sowing or transplanting, the new plug is the solution to achieving a homogeneous sowing result. The cube has ideal air/water balance, consistent shape of the seed hole, identically shaped plugs and optimum robustness and flexibility. (fits in seed tray TRA1101)  
**AO25/40, 1 Inch starter cubes, 200/ pad**  
Item # ROC1004      \$ 9.89

**MM40/40, 1.5 Inch (actually a little bigger) wrapped mini blocks, 15/strip**  
Item # ROC4041      \$ 3.14

**MM50/40, 2 Inch wrapped mini blocks, 12/ strip**  
Item # ROC1011      \$ 4.91

Gro-Blocks have holes that fit 1-1.5 inch starter cubes for super easy transplanting: Hugo is the largest of the growing blocks. It provides enough growing volume to support a larger plant, so it does not need to be placed on top of a slab.

**6" x 6" x 6" "HUGO" Cube**  
Item # ROC2501      \$ 3.11  
**4" x 4" x 4"**  
Item # ROC1030      \$ 1.76  
**DM6-G, 4" x 4" x 2.6"**  
Item # ROC1019      \$ 0.68  
**DM4-G, 3" x 3" x 2.6"**  
Item # ROC1002      \$ 0.55  
**3" x 3" x 2.6" No Hole**  
Item # ROC1022      \$ 0.74

Macro Plugs are rockwool plant starting plugs that feature a slit for easy insertion of rooted cuttings. Ideal for growers using aeroponic EZ clone machines. They fit perfectly into the holes of any standard rockwool blocks, inserted into pebbles, or any other type of growing mediums.

**Macro Plugs, Bag of 32 plugs**  
Item # ROC2500      \$ 15.00

GrowCubes are small 1/4" cubes of stonewool (Rockwool). There are several advantages; when the cubes are wetted, they stack on top of each other leaving air space in between the cubes; each cube has four surfaces from which excess water can drain. This way, even if you water a lot, the Grow-Cubes will not get water logged; less algae growth on the top than with the smooth surface Gro-Blocks™; driest of our products with properties of a 50/50 mix (50% water/50% air) and very easy to mix with any other potting mix. The Grow-Cubes will help spread the water in the container as well as keeping a water buffer in between the watering. The cubes are lightweight; approx. 1/10 of the weight of a bag of potting soil.

**Grow Cubes, Medium Bag**  
Item # ROC1014      \$ 19.95  
**Grow Cubes, Large Bag**  
Item # ROC1003      \$ 36.95

Grodan Slabs -The final stage of planting with growing blocks are the Grodan slabs. These slabs come in clearly marked UV resistant poly sleeves for ease of use. The poly sleeves have several functions; comfort in handling; preventing algae growth; preventing roots and diseases from moving easily from slab to slab; minimizing evaporation; enabling full saturation of the slabs before use; controlling/directing the water-run off from the slabs. Slabs are recommended for larger, long term crops with extensive roots like peppers, tomatoes, or cucumbers. Typically, seedlings in blocks are placed onto slabs. Grodan Expert is the slab that drains the fastest because of its vertical fibers. Gro-Slabs provide expanded growing space for roots beyond cubes, which can be set into holes cut in the UV resistant polyethylene covering.

<b>Expert 15/17, 3" x 6" x 36"</b>	Item # ROC0998	\$ 5.81
<b>Expert 20/75, 3" x 8" x 36"</b> (recommended for water hungry plants like cucumbers)	Item # ROC0996	\$ 7.75
<b>3' x 6" x 40"</b>	Item # ROC0999	\$ 6.46
<b>3' x 8" x 40"</b>	Item # ROC0997	\$ 8.61

Leca Stone (Lightweight Expanded Clay Aggregate) Leca stone is completely inert, pH neutral and reusable, plus it has great oxygen holding capability and drainage.

<b>Leca Stone, 1 Liter</b>	Item # LEC1000	\$ 5.95
<b>Leca Stone, 5 Liters</b>	Item # LEC1001	\$ 7.95
<b>Leca Stone, 10 Liters</b>	Item # LEC1002	\$ 9.95
<b>Leca Stone, 28 Liters</b>	Item # LEC1003	\$ 12.95
<b>Leca Stone, 50 Liters</b>	Item # LEC1004	\$ 22.75

Perlite is a great inert medium to add to soil to increase oxygenation of the root zone and to prevent soil compaction, or to use alone for seed starting or in hydroponic applications. We carry coarse horticultural grade, which is the best for all gardening needs.

<b>Perlite, 4 Cubic foot (113 Liter) bag</b>	Item # PER4000	\$ 10.50
<b>Filled Perlite Grow Bag (fits in 4 foot tray)</b>	Item # PER3000	\$ 6.68

Coconut Coir Bricks expand to 5x their size when soaked in water, best source of loose fiber for mixing or planting. Coconut Coir Fiber Brick is for indoor and outdoor use. They are an ideal option for use in troughs, hanging baskets, or other applications where large expansion is not required. Bricks are 100% Organic. They promote strong root growth, plant vigor and absorb water readily and re-wets easily, thus reducing the need for wetting agents. Bricks reduce watering frequency without plant stress, thereby reducing labor costs and minimizing plant loss while maintaining excellent drainage and aeration. They increase shelf life of plants. The slow breakdown of material means product will not shrink during your growing cycle.

<b>Coconut Coir Fiber Brick, 21 Ounces</b>	Item # COC0004	\$ 2.00
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Grow Mats are designed to lie underneath Baskets, Slabs, and Cubes, and can easily be cut to fit any size. Not only will roots grow under the Mat where moisture remains between flood cycles, but the Mat will also protect these roots from drying out.

<b>Cocotek Mat, 4' x 8'</b>	Item # COC5000	\$ 28.80
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Rapid Rooter Plugs are fortified with General Hydroponic micronutrients for abundant root growth. The optimal air-to-water ratio within the plug matrix results in explosive early root growth. Use Rapid Rooter for robust early rooting that supports explosive plant growth.

<b>Rapid Rooter Plugs</b>	Item # RAP1002	\$ 0.53
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Jump Start Pellets are fast-expanding, earth-friendly biodegradable pellets. They include superior expanding peat pellets made from 100% Light Finish sphagnum, and are the perfect choice for dedicated growers and hobbyists alike. They are ideal for germination and seeding of vegetables, flowers, and herbs. They are also great for the rooting of cuttings of crops which grow in a normal pH range like tomatoes, cucumbers and other garden vegetables as well as chrysanthemums, geraniums, poinsettia, etc. When expanded with water, they provide excellent aeration of plant roots and have excellent water retention. To expand the pellets simply add water. Using lukewarm water will speed up the expansion time. If too much water is added, allow pellets to drain completely before planting.

<b>Jump Start Pellets</b>	Item # JUMPSTART1001	1-10	\$ 0.10
		101-1500	\$ 0.80
		Case 1500	\$ 99.00

## MISCELLANEOUS

Bamboo Stakes can be used indoor or outdoor, strong and durable, lightweight stakes with smooth, attractive finish, each stake is 36" long

**Bamboo Stakes, 25**

Item # BAM1000 \$ 2.95

Vine Clips are great to support your plants throughout their growth. Use them to tie your plants to stakes, trellis or support wire. They are commonly used to help support tomatoes, cucumbers, peppers and any tall plant.

**Vine Clips, 100**

Item # VIN8000 \$ 10.00

Precision Pruners are for right or left handed use and the ergonomic design reduces stress to the hand. The pruners are surgical stainless steel holds a sharper edge longer and the high quality spring enhances speed and performance.

**Bonsai Precision Pruners**

Item # MIC3000 \$ 10.95

Mini Measure Shot Glass is ideal for home, lawn, garden or kitchen. It is dishwasher safe, permanent markings, high visibility, with a heavy base to reduce tipping. Measures teaspoons, tablespoons, ounces, and milliliters

**Mini Measuring 1 Ounce shot glass**

Item # MEA1101 \$ 3.59

Tarp Zip-Up Zipper System is a peel and stick adhesive zipper system that instantly create doorways in tarps, poly or shrink wrap. The zip-up creates easy access in & out and is ideal for greenhouses. Great for containing dust, moisture & pests. Stick on tarp, cut, and you've got door!

**Tarp Zip-up, 7 Foot**

Item # TAR1000 \$ 11.95

Poly Twine is used for garden, home, office and packaging. The twine is made out of polypropylene and won't rot. It is long lasting, strong and easy to work with.

**Polytwine 1000 Foot**

Item # VIN4001 \$ 7.45

**Trellis 4' Wide plastic roll, per Foot**

Item # TRE1000 \$ 1.12

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, and more air vents to do as you wish. Completely control your plants atmosphere and light indoors. Each hut has adjustable steel ceiling poles and reinforced corners.

**Silver Edition Huts, 2' x 4'**

\$239.00 Special Order

**Silver Edition Huts, 4' x 4'**

\$349.00 Special Order

**Silver Edition Huts, 4' x 8'**

\$659.00 Special Order

## NUTRIENTS

### Liquid Nutrients

Big Bloom is a 100% Natural and Organic liquid fertilizer. Biologically alive formula is an instant plant food. Dramatically enhances flavor and fragrance! Promotes strong, extra large multiple blooms and will not burn plants. Big Bloom is a great medicine for sick plants or transplant fertilizer. For hydroponics, soil, foliar, and drip irrigation systems. Big Bloom can be used in combination with Tiger Bloom Fertilizer. The best of the best!

**Big Bloom, Quart**

Item # FOX2000 \$ 16.95

**Big Bloom, Gallon**

Item # FOX2001 \$ 42.95

**Big Bloom, 2.5 Gallon**

Item # FOX2002 \$ 91.95 Special Order

**Big Bloom, 5 Gallon**

Item # FOX2003 \$ 178.95 Special Order

Grow Big is an organic based concentrate. Grow big is a comprehensive blend of major, minor, and micro nutrients. Formulated to promote spectacular growth, instant green-up, larger flowers, and color intensity of blossoms. It is great for roses, tomatoes, veggies, flowers, fruits, herbs, and lawns. Extra strong, a little goes a long way!

**Grow Big, Quart**

Item # FOX3000 \$ 17.95

**Grow Big, Gallon**

Item # FOX3001 \$ 55.95

**Grow Big, 2.5 Gallon**

Item # FOX3002 \$ 128.95 Special Order

Tiger Bloom is especially designed for both soil and hydroponic applications. Tiger bloom is an ultra-potent, fast acting, high phosphorous fertilizer which stimulates growth and vigor. Tiger Bloom promotes abundant fruit, flower, and multiple bud set. Pushes blooms and is fast acting with immediate results. Tiger Bloom contains the right amount of nitrogen to ensure sturdy lush greenery and growth, as well as producing intense color and blossoming, and dark, dense cell tissue. It is perfect to use on any plant at the time of flowering.

**Tiger Bloom, Quart**

Item # FOX5000 \$ 17.95

**Tiger Bloom, Gallon**

Item # FOX5001 \$ 55.95

**Tiger Bloom, 2.5 Gallon**

Item # FOX5002 \$ 128.95 Special Order

Flora Series: The original Building-Block Nutrient System, often imitated but never duplicated. Flora Series contains complete Primary, Secondary and Micro Nutrients for enhanced yields and better crop quality. Users can adjust mixtures to suit specific plant needs. Flora Series enhances flavor, nutrition, aroma, potency, and essential oils in both hydroponic and soil cultivated plants. Flora Series contains highly purified concentrates for maximum solubility and pH balanced for ease of use. Known throughout the world as the industry standard, NASA and Antarctic Research Scientists choose Flora Series because of its superior formulation and reliability. FloraGro Stimulates structural and vegetative growth. It builds strong roots and provides nitrogen, phosphorous, potassium, and secondary minerals

FloraGro, Quart	Item # FLO2000	\$ 12.50
FloraGro, Gallon	Item # FLO2001	\$ 31.88
FloraGro, 2.5 Gallon	Item # FLO2002	\$ 69.40
FloraGro, 6 Gallon	Item # FLO2005	\$ 140.00

FloraBloom: Stimulates flower and fruit development. It enhances flavor, aroma, and essential oils and provides high Phosphorous, Potassium, Magnesium, and Sulfur.

FloraBloom, 1 Quart	Item # FLO3000	\$ 12.50
FloraBloom, 1 Gallon	Item # FLO3001	\$ 31.88
FloraBloom, 2.5 Gallon	Item # FLO3002	\$ 69.40
FloraBloom, 6 Gallon	Item # FLO3005	\$ 140.00

FloraMicro: The foundation of the "Building-Block" System. It provides Nitrogen, Potassium, Calcium, and trace elements.

FloraMicro, 1 Quart	Item # FLO1000	\$ 15.94
FloraMicro, 1 Gallon	Item # FLO1001	\$ 36.58
FloraMicro, 2.5 Gallon	Item # FLO1004	\$ 84.30
FloraMicro, 6 Gallon	Item # FLO1005	\$ 170.00

FloraMicro Hardwater: If your tap water is over 200 ppm (or contains Calcium above 70 ppm), use FloraMicro Hardwater. If your water contains 30 to 50 ppm Calcium, you can mix our original FloraMicro with FloraMicro Hardwater to create a perfect Micro blend for your plants.

FloraMicro Hard, Quart	Item # FLO0998	\$ 15.94
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FloraNova Series represents a breakthrough in fertilizer technology, as it gives users both the strength of a dry concentrate and the ease of a liquid. This unique formulation of highly purified minerals and natural additives combines the benefits of hydroponic as well as organic gardening methods. FloraNova one part formulation, combines all the elements required for hydroponic cultivation, plus it is extremely concentrated. A very small amount of FloraNova mixed with fresh water will provide your plants with proper nutrition. FloraNova works superbly in hydroponic environments, as well as with both soil-less mixtures and soil grown plants.

FloraNova Grow: Works as a specialized nutrient for rapidly growing plants during the structural and foliar growth phase. It is extremely concentrated (1-3 tsp./ gal.), great for hydro or soil, includes all major and micronutrients, and it contains humic acids for better nutrient absorption and organic additives for improved taste and aroma.

Flora Nova Grow, Quart	Item # FLO4012	\$ 27.50
Flora Nova Grow, Gallon	Item # FLO4013	\$ 87.50

FloraNova Bloom : Promotes explosive flowering and fruiting. It has phenomenal aroma, taste, potency, and colors while delivering extraordinary yields.

Flora Nova Bloom, Quart	Item # FLO4015	\$ 27.50
Flora Nova Bloom, Gallon	Item # FLO4016	\$ 87.50

Flora Nectar Fruit-n-Fusion Sweetener contains all natural raw cane sugar, molasses, malt syrup, select plant based esters, L-amino acids, organic acids, polyflavonoids, vitamins and essential minerals. This unique blend of ingredients helps your plants regulate enzymes that trigger specific reactions involved in maintaining optimal metabolism. This allows your plants to achieve a balance between respiration and photosynthesis in high intensity growing environments where the rate of respiration can sometimes exceed the rate of photosynthesis. As a result, FloraNectar Fruit-n-Fusion ensures optimal metabolic rates during the flowering and fruiting phase when nitrogen levels have been reduced. FloraNectar Fruit-n-Fusion also promotes a sturdier plant structure during the vegetative phase when high levels of nitrogen are present. FloraNectar Fruit-n-Fusion fulfills the additional energy requirements of your plants throughout all phases of growth and during stressful times of transition.

Flora Nectar, Quart	Item # FLO4101	\$ 21.00
Flora Nectar, Gallon	Item # FLO4102	\$ 58.80

Humboldt Nutrients Bloom & Grow formula has developed this vigorous three-part fertilizer without the use synthetic chelates. Our premium three-part nutrient system leaves nothing to chance and produces excellent high yield crops. When used in conjunction with our high powered additives, Humboldt Nutrients three-part fertilizer program will produce fantastic yields and premium quality crops. Through extensive research and development, the Humboldt Nutrients team of chemists has formulated an easy to use fertilizing program for use on a variety of vegetables, flowers or herbs.

Bloom is specifically formulated to improve plant photosynthesis, metabolism, genetics and eventually crop quality and yield. Plant Growth, flowering and fruiting depend on the correct balance of Phosphorus and Potassium. Bloom is derived from: Magnesium Phosphate, Phosphoric Acid, Potassium Phosphate, and Magnesium Carbonate. NPK 0-6-5

<b>Bloom, 32 Ounces</b>	Item # HUM1002	\$ 11.70
<b>Bloom, Gallon</b>	Item # HUM1006	\$ 29.84

Grow contains elements which form new compounds with weak electrical bonds. This increase in availability of electrons promotes efficient absorption and uptake of nutrients. This diverse formula helps assure that none of the elements necessary for plant growth will fall out of solution and lock out. Grow is derived from Ammonium Nitrate, Magnesium Phosphate, Nitrate, Potassium Nitrate, Magnesium Phosphate, Potassium Phosphate, Potassium Carbonate, Potassium Sulfate, Magnesium Carbonate and Magnesium Sulfate. Grow 2-1-6

<b>Grow, 32 Ounces</b>	Item # HUM1003	\$ 11.70
<b>Grow, 1 Gallon</b>	Item # HUM1007	\$ 29.84

Micro has all the micro nutrients necessary to create vigorous, healthy plants, strong aromas and large yields. Micro is derived from Calcium Nitrate, Potassium Nitrate, Calcium Carbonate, Cobalt Nitrate, Potassium Carbonate, Iron EDTA, Iron DPTA, Iron EDDHA, Manganese EDTA, Molybdenum EDTA, Cobalt EDTA, Zinc EDTA. NPK 5-0-1

<b>Micro, 32 Ounces</b>	Item # HUM1001	\$ 15.80
<b>Micro, 1 Gallon</b>	Item # HUM1005	\$ 36.28

Bloom Natural (0-10-0) is an ultra-concentrated natural bloom formula designed to give your plants the large phosphorus and calcium boost needed during the flowering period. Bloom Natural induces a superb flowering response in all plants, encouraging multiple flowering sites. This produces a massive crop, a high quality yield and flavorful fruits. Derived naturally from Soft Rock Phosphate and kelp, this is the high quality premium nutrient line that professional gardeners trust. The use of Bloom Natural promotes full flavors, aromas and beautiful bouquets obtained through the use of rich and pure natural ingredients provided by Humboldt Nutrients.

<b>Bloom Natural, 1 Quart</b>	Item # HUM1008	\$ 26.32
<b>Bloom Natural, 1 Gallon</b>	Item # HUM1009	\$ 93.60

Grow Natural (3-1-3) is an ultra-concentrated natural grow formula designed to give your plants the nutrient-rich foundations needed during the vegetation and flowering period. Grow Natural is made using fresh ingredients, none of our products are imported from overseas making our prices affordable to the consumer. Grow natural is a blend ocean fish, seaweed extract, Quillaja saponaria, bentonite, Yucca extract, cane molasses and naturally derived. The base ingredients in Grow Natural will promote and facilitate the growth of beneficial bacteria and fungi in your growing media. This blend provides essential nutrients to all plants, along with crucial elements which feed the inoculated and existing beneficial bacteria in the soil.

<b>Grow Natural, 1 Quart</b>	Item # HUM1010	\$ 26.32
<b>Grow Natural, 1 Gallon</b>	Item # HUM1011	\$ 93.60

Honey Hydro Carbs is an excellent source of carbohydrates for all plants. It promotes and facilitates the growth of beneficial bacteria and fungi in your soil or soil-less media, and dramatically enhances the quality of any plant's fruit. Hydro Carbs are the fuel of the microscopic world, supplying the energy needed to drive biochemical systems. Honey Hydro Carbs break down into the smallest possible sugars when dissolved in water, creating an easily accessible food for beneficial fungus, bacteria, and plants. It will increase your plants brix levels (a measure of the sugar content of any given fruit or flower). Carbohydrates are beneficial in helping plants under stress maintain productive and vibrant. Fruiting is primarily driven by carbohydrates. During fruiting plants channel carbohydrates to their fruiting bodies which are in turn built with sugars. This energy is converted and read through the brix levels. A sweet, good taste and aroma are to be expected when you increase the brix level in a crop. Honey Hydro Carbs will fortify your plants with energy, your fruit with flavor and will allow the plants to correctly regulate vital internal and external processes as they continue to grow. When used in addition to our nutrient feeding schedules Humboldt Honey Hydro Carbs will increase the sugar content and quality of your vegetables, flowers and herbs.

<b>Honey Hydro Carbs, 32 Ounces</b>	Item # HUM1004	\$ 12.88
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BioThrive Grow offers flowering and fruiting plants essential nutrients for superior blooms and bountiful harvest. It provides plants with essential nutrients for roots, stems, and foliage. Conceived from plant and mineral extracts, the pure and natural vegan formulation encourages beneficial microbial activity in the root zone. Grow is ideal for all types of plants and can be used with garden soils as well as potting mixes. This product works best with soils that contain calcium.

**Bio Thrive Grow, Quart**

Item # BIO1001      \$ 16.95

BioThrive Bloom offers flowering and fruiting plants essential nutrients for superior blooms and bountiful harvest. The pure and natural vegan formulation, conceived from plant and mineral extracts, encourages beneficial microbial activity in the root zone. Bloom benefits all kinds of plants during flowering and fruiting phases of growth, and can be used with a wide variety of garden soils and potting mixes. It is ideal for both potting soil and soilless growing.

**Bio Thrive Bloom, Quart**

Item # BIO1002      \$ 16.95

The B.C Hydroponic Nutrients are a power-packed trio for nurturing generous vegetative crops and extraordinary floral growth. B.C Boost, B.C Bloom and B.C Grow are complete, professionally formulated, highly concentrated fertilizing agents. B.C Grow and B.C Bloom contain a full complement of micronutrients, 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. As well, minimal pH drift is assured, eliminating the need for constant adjustments. Growers can also greatly reduce cleaning time and expenditure, as Technaflora's B.C Hydroponic Nutrients allow only minimal salt build-up. This remarkable three-part fertilizer is easy to mix and control, with simple to follow mixing instructions printed on every label.

**B.C. Grow, Quart**

Item # BCG1000      \$ 18.49

**B.C. Bloom, Quart**

Item # BCG1001      \$ 18.49

**B.C. Boost, Quart**

Item # BCG1002      \$ 21.77

SugarDaddy is a revolutionary plant nutrition product that supplies essential carbohydrates and all twenty amino acids in a rapidly available form which greatly enhances the fragrance and essential oil production of flowers and fruits during all stages, and ensures continued rapid growth rates throughout the flowering stage as nitrogen levels in your fertilizer formulas are lowered. SugarDaddy is suitable for use in soil, soilless, and hydroponic based gardening mediums.

**Sugar Daddy, Quart**

Item # SUG1000      \$ 25.89

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 macro and micro elements, stimulating dense, vigorous flowering. Awesome Blossoms fosters explosive flower growth, promoting heavier blooms at multiple budding sites. Used at regular intervals throughout the flowering stage, Awesome Blossom facilitates a crowning effect with new blossoms emerging from within existing flowers. An exceptional, concentrated liquid elixir, it also 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, can be applied from the watering can, or mixed directly into hydroponic reservoirs.

**Awesome Blossom, 1 Liter**

Item # AWE1000      \$ 37.00

MagiCal is a highly enriched formulated blend of Magnesium and Calcium 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 reducing leaf chlorosis and deficiency related disorders such as blossom end rot, stem rot and tip burn.

**MagiCal, 1 Liter**

Item # MAG1000      \$ 16.39

Thrive Alive is a power packed preventative and restorative general purpose plant tonic. Thrive Alive 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 and 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, facilitating vigorous and healthy root development for both cuttings and established root systems, while protecting your plants from transplant-related shock. Thrive Alive can be used as a soil drench when taking cuttings, and in conjunction with ROOTECH Cloning Gel will quickly build viable root systems and initiate rapid stem and shoot growth. As a rejuvenator, Thrive Alive can be utilized prior to taking cuttings, ensuring healthy mother plants that will continue producing new shoots. Thrive Alive is also an outstanding foliar application in the house and garden for promoting a plant's full potential. When used weekly as a foliar spray throughout the vegetative cycle and into the first week of flowering, it nurtures a "green up" effect which keeps leaves strong and lush. Ideal for all types of gardening, Thrive Alive is an original Canadian formulation unequalled in quality, consistency and strength.

**Thrive Alive B1 Red, 250 Milliliters**

Item # THR1001      \$ 18.52

**Thrive Alive B1 Green, 250 Milliliters**

Item # THR1000      \$ 19.97

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 extremely 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.

**Coco-Wet, 8 Ounces**

Item # SPR9999b \$ 6.95

Spray-N-Grow is not a fertilizer, hormone or hydroponic nutrient solution. Spray-N-Grow is a foliar micronutrient complex made up of naturally occurring elements that are essential for plant growth. Fertilizers and nutrient solutions provide your plants with major elements necessary for plant growth. Some contain a few additional elements. Spray-N-Grow provides your plants with essential minor elements (micronutrients) not provided by your hydroponic nutrient solution.

**Spray-N-Grow, 8 Ounces**

Item # SPR9999 \$ 14.95

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 hydroponic nutrient solution and Spray-N-Grow that produces excellent results in all growing mediums.

**Bill's Perfect Fertilizer, 8 Ounces**

Item # SPR9999a \$ 8.95

**Nutrient Additives**

Floralicious Grow and Bloom is made from a highly concentrated blend of bioactive microbial, plant, marine plants, and mineral extracts. Guided by the latest scientific findings, the unique fermentation process creates a potent blend of phyto-stimulants and biometabolic precursors that enables Floralicious to bring out your plants' full genetic potential. Floralicious augments metabolic activity in the root zone, stimulates Krebs cycle metabolism, and facilitates mineral transport and bioconversion. In addition, Floralicious enhances polyamine synthesis and encourages the biosynthesis of complex secondary aromatic compounds. Floralicious contains a perfect balance of vitamins, phytohormones, humic acids, polysaccharides, fructans, beta-glucans, L-amino acids, and polyflavonoids.

Floralicious Grow Enhances metabolic activities and nutrient assimilation that results in more vigorous growth. Floralicious Grow builds the foundation of root and leaf mass needed for superior harvests. Use Grow formula during vegetative stage for enhanced metabolic activity and vigorous growth.

**Floralicious Grow, Quart**

Item # FLO4005 \$ 26.84

**Floralicious Grow, Gallon**

Item # FLO4006 \$ 80.50

Floralicious Bloom is a bio plant stimulator and nutrient supplement specifically blended for fruiting or flowering stages of growth. Bloom promotes maximum flower size and fruit swelling for heavier yields. Floralicious Bloom offers phenomenal flavor and bouquet upon harvest. It leads to more coloration that is vibrant with an improved overall appearance. Use bloom formula during flowering for maximum flower size, flavor, color, and bouquet.

**Floralicious Bloom, Quart**

Item # FLO4010 \$ 26.84

**Floralicious Bloom, Gallon**

Item # FLO4011 \$ 80.50

DeuceDeuce (0-0-22) is derived from sulfate of Potash, Potassium, and Ascophyllum Nodosum and also contains 1% Yucca Extract. Potassium aids plants in enzymatic function, protein and cellulose formation, efficient photosynthesis and rapid transportation of carbohydrates and starches throughout a plants vascular system. Providing high levels of potassium to your plants will also harden flowers and improve overall plant health. The Potassium contained in DeuceDeuce is a revolutionary formulation, creating instantly available elements within the formula. When DeuceDeuce is diluted and mixed in water a beneficial environment for biological life is created. This unique blend allows helpful biological activity to immediately begin breaking down the elements provided by the high quality, cold pressed Ascophyllum Nodosum Seaweed. Using DeuceDeuce in conjunction with Grow Natural and Bloom Natural will allow your plants to reach their peak performance. Our customers currently using DeuceDeuce have reported these results: increased root growth, lush vegetation, larger and harder flowers and improved overall quality for all the plants in their gardens.

**DeuceDeuce, 1 Quart**

Item # HUM1012 \$ 20.00

FlavorFul is a strong solution of 8% refined Humic acid concentrate, a little known and highly useful additive and derived from Leonardite. . The majority of refined Humic acid formulas on the market are .01% concentration. The clear appearance of these watered down derivatives is an indication of the low concentration. FlavorFul is 8% refined Humic acid with a dark, amber color indicating the high concentration. FlavorFul is comprised of long chains of organic carboxyl and polyhydroxide acids. This complex molecule is very active with many open rings, giving it a large capacity to hold and exchange nutritive cations and anions. This beneficial exchange of ions enhances cell wall permeability throughout the root and leaf systems and increases negatively charged colloidal particles capable of holding and exchanging cations. Electrolytes are the key to healthy ion exchanges in plants and animals. Just as an athlete's body needs electrolytes to maintain proper function on the field, plants thirst for electrolytes to optimize health and to maintain sustained vigorous growth. FlavorFul contains electrolytes that stimulate plant walls, resulting in smooth and consistent uptake and delivery of vitamins, minerals, nutrients and trace elements in soil and fertilizers.

**Flavorful, 1 Quart**

Item # HUM1013 \$ 17.56

Verde (16-1-2) is used as a foliar spray or as a growth catalyst for hydroponic or soil crops, Verde keeps plants healthy throughout their life cycle. Verde is a premium growth supplement with 16% nitrogen, 1% phosphorus, and 2% potassium, as well as calcium, iron, magnesium and other vital elements. This is a great blend for plants experiencing periods of accelerated growth. Verde contains every element necessary for a true growth supplement, increasing the rate of chemical reactions which facilitate plant growth. Accessible nitrogen is the key to a plant having a strong and vibrant internal structure. A robust internal structure means a healthy immune system, a necessity for a plant to thrive and produce high quality crops. Verde is a blend that contains high quality, cold pressed Ascophyllum Nodosum seaweed, humic acid and Yucca Extract. This unique product increases root, stem and stalk structure, while boosting chlorophyll levels and protecting the health of your plant. Use Verde in conjunction with Humboldt Nutrients base nutrients and additives for vigorous growth. This is the useful and balanced nitrogen additive you have been searching for. NOT RECOMMEND USING VERDE IN RE-CIRCULATING SYSTEMS.

**Verde, 1 Quart**

HUM1014 \$ 22.50

Prozyme, is a concentrate, made up of over 80 different beneficial enzymes. Enzymes are biological catalysts, derived from living organisms. Catalysts increase the speed of naturally occurring chemical reactions. Humboldt Nutrients employs the foremost experts in horticultural enzymes to formulate Prozyme into a highly diverse blend of enzymatic compounds. The result is a rich, dark biological which will break down dead root mass, starches, carbohydrates and nutrients to make them readily available and useful to the plant. Prozyme is a natural chelate, or a biological key, carrying the elements necessary for plant health, and delivering them into the cell wall for maximum absorption. Organic and conventional nutrients can contain complex macromolecules which are harder for a plant to break down and absorb than smaller compounds. Prozyme stimulates the “pre-digestion” of these complex molecules, allowing the plant to absorb and immediately use the nutrients. Since each enzyme has specific role to play in catalyzing reactions, the diversity of enzymatic species in Prozyme assures that each task required by the plant is performed efficiently and rapidly. When using Prozyme as a catalyst for chemical reactions, the rate of reaction can be over 15 million times faster than if left un-catalyzed. Without proper enzymatic activity, absorption of nutrients is sluggish and incomplete. Prozyme is specially developed for cleansing and treating all growing mediums.

**Prozyme, 1 Quart**

Item # HUM1015 \$ 40.00

Greenfuse is a pure organic growth stimulators especially formulated to unleash the hidden green energy in the plant, delivering dynamic growth and enhanced yields. Greenfuse stimulators are the genuine and original stimulators from Holland. Greenfuse is a Dutch organic nutrient additive blend derived from plant oils and extracts. It is made in 3 formulas designed to provide supplementary plant proteins that are limiting factors for each stage of growth- rooting, vegetative growth, and blooming. When diluted one quart makes 250 gallons.

**Greenfuse Root, Quart**

Item # GRE4000 \$ 40.00

**Greenfuse Grow, Quart**

Item # GRE5000 \$ 40.00

**Greenfuse Bloom, Quart**

Item # GRE6000 \$ 40.00

Diamond Nectar applies the magic of humic acids to nutrient rich hydroponic environments by grabbing nutrient minerals and transporting them into plant roots for faster growth and higher yields. Plant growth occurs because humic acids channel available nutrients directly into nearby vegetation. By accelerating nutrient absorption at the root boundary zone where minerals enter the plant, humic acids optimize nutrient uptake in fast growing plants. Diamond Nectar supercharges your nutrients in order to optimize the health of your plants and the quality of your crops.

**Diamond Nectar, Quart**

Item # DIA1001 \$ 17.25

**Diamond Nectar, Gallon**

Item # DIA1000 \$ 46.00

Liquid Karma is a great multi-faceted bio-catalyst plant growth stimulant designed to augment growth in soil or hydroponics when used in addition to standard nutrients. Use in every phase of growth, to prevent transplant shock, and to promote rooting of cuttings. Formulated by a Ph.D. plant physiologist this bio-catalyst plant stimulant has active organic compounds not found in regular plant foods or supplements. These compounds act as regulatory signals, activators or catalysts producing synchronized and accelerated growth under all conditions.

**Liquid Karma, Quart**

Item # LIQ1000 \$ 27.50

**Liquid Karma, Gallon**

Item # LIQ1001 \$ 68.50

Nitrozime is an all natural marine algae extract that contains many of the nutrients and growth hormones that all plants require for vigorous, healthy growth. Nitrozime promotes lush vegetation heavy with oil, earlier flowering, and increased yields. Highly concentrated; a little goes a long way. Recommended for foliar and root application

**Nitrozime, 16 Ounces**

Item # NIT1001 \$ 32.00

Sweet Carbo Berry is an all natural mineral supplements contains carbohydrates and essential secondary elements which are utilized for the bio-synthesis of crucial compounds to maintain optimal metabolism. Sweet is scientifically formulated with carbohydrates for flavor and aroma enhancement. The unique chemical composition of Sweet makes it beneficial during all phases of plant growth. During the vegetative phase, application of Sweet prevents plants from becoming leggy and soft-stemmed in the presence of high nitrogen concentrations. At the onset of flowering application of Sweet ensures a seamless and stress-free transition from the vegetative to the flowering stage even though nitrogen levels are artificially kept low. The key ingredients present in Sweet are rapidly taken up by plants and utilized for the biosynthesis of crucial compounds to maintain optimal metabolism. The continued application of Sweet during the flowering and fruiting stages helps maintain a proper balance between photosynthesis and respiration. This is significant because, during flowering, many growers use high carbon dioxide concentrations, high temperatures and light with longer wavelengths. Under such conditions, respiration can outstrip photosynthesis causing excessive ethylene production which results in senescence, yellowing of leaves and leggy growth. Sweet protects plants from this metabolic imbalance and helps produce sturdy stems with short internodes and an abundance of buds, flowers and fruits.

**Sweet Carbo Berry, 1 Quart**

Item # SWE1000 \$25.00

Cha Ching (1 lb.) won't leave a salty residue or buildup in your hydroponic system or containerized soil plantings. It contains all the essential elements like calcium, magnesium, boron, manganese, sulfur, molybdenum, iron, copper and zinc to support solid fruit on compact, stocky plants.

**Cha Ching Soluble, 1 Pound**

Item # FOX9011 \$ 31.95

Beastie Bloomz is geared towards building enormous blossoms on your plants, with exceptionally brilliant color and long life. Just wait until you begin to see buds forming, and give 'em a shot of Beastie for a week or two. That's all it takes.

**Beastie Bloomz, 1 Pound**

Item # FOX9012 \$ 31.95

Open Sesame is a early-flowering formula designed to bring plants into bloom at your command. You decide when they bloom. Open Sesame delivers a specific micronutrient pack at just the right moment.

**Open Sesame, 1 Pound**

Item # FOX9013 \$ 31.95

Cal-Mag Plus is a custom designed, highly beneficial calcium, magnesium, iron and trace mineral plant nutrient supplement that helps with calcium, magnesium and iron deficiencies in nutrient fertilizer programs.

**Cal-Mag Plus, 1 Quart**

Item # CAL3000 \$ 17.95

**Cal-Mag Plus, 1 Gallon**

Item # CAL3001 \$ 44.95

Superthrive is a hydroponic supplement that supplies ready-made carbon-hydrogen-oxygen groups that plants would otherwise need to wait to make. It is a unique vitamins and plant hormones formula. Use it with your cutting concentrate to increase your success with cuttings and increase the survival rate of difficult transplants. Super concentrated. You use only a drop per gallon.

**Superthrive, 4 Ounces**

Item # SUP5000 \$ 11.31

**Superthrive, 1 Pint**

Item # SUP5001 \$ 34.95

**Superthrive, 1 Gallon**

Item # SUP5002 \$ 167.69

Hydro-Gro Fertilizer is the ideal hydroponic fertilizer for any of the hydroponic kits or system. A one pound pack of our Hydro-Gro contains 8 ounces of the "A" mix, containing the major elements and micro-nutrients (trace elements), and 8 ounces of the B mix, which contains the Calcium Nitrate.

**A+B, 5 lbs (A- 2.5 Pounds, B- 2.5 Pounds)**

FER3018 \$ 19.50

**Hydro-Gro A, 5 Pounds**

Item # FER3022 \$ 19.00

**Hydro-Gro A, 50 Pounds**

Item # FER1000 \$ 126.00

**Hydro-Gro B, 5 Pounds**

Item # FER3025 \$ 7.00

**Hydro-Gro B, 50 Pounds**

Item # FER3014 \$ 29.95

**Dry Nutrients**

Indonesian Bat Guano (0.5-12-0.2) has the highest phosphorus rating available in a guano. It is perfect for encouraging multiple blooms and hardy root growth. 100% organic, suitable for all indoor and outdoor plants. May be used in a watering program or applied dry.

**Indonesian Bat Guano, 2.2 Pounds**

Item # IND1001 \$ 7.95

Jamaican Bat Guano is phosphorus-rich (1-10-0.2) and gives blooming flowers and ripening fruits a boost by heightening root and bud development. Listed by the Organic Materials Review Institute (OMRI), Jamaican Bat Guano is safe for use indoors and out and is non-toxic to people and pets. Gardeners can amend their soil with it, use it as a top dressing or create a "guano tea" and apply it directly to plant roots in a fortified water dilution.

**Jamaican Bat Guano, 2.2 Pounds**

Item # JAM1000 \$ 8.95

Mexican Bat Guano (10-2-1) brings important nutrients to plants and adds active micro-organisms to soil. These tiny organisms unlock nutrients bound up in the soil and break down the compounds in the guano, releasing major soluble and trace nutrients to eager plant roots. Mexican Bat Guano can be tilled into soil, used as a top dressing or applied directly in a water dilution. The result is increased soil porosity and a healthier root system. Mexican Bat Guano is listed by the Organic Materials Review Institute (OMRI). Pair it with our high-phosphorus Jamaican or Indonesian Bat Guano for spectacular growing results.

**Mexican Bat Guano, 2.2 Pounds**

Item # MEX1000 \$ 6.95

MaxiGro and MaxiBloom are extremely potent, stand-alone, water-soluble, dry concentrate nutrients. Complete in Primary, Secondary, and Micro Nutrients, pH buffered MaxiGro and MaxiBloom will provide superior results when used with a wide variety of crops in both hydroponic and soil-based environments. MaxiGro is used to encourage growth of seedlings and cuttings, and to stimulate rapid growth through the "vegetative" growth stage. MaxiBloom is used for the reproductive stage in fast growing annuals. MaxiBloom encourages prolific flowering and fruiting, and increases yields and crop quality.

**MaxiGro, 2.2 Pounds**

Item # MAX1001 \$ 15.34

**MaxiBloom, 2.2 Pounds**

Item # MAX1002 \$ 15.34

Liquid KoolBloom (0-10-10) is a bulking agent that goes way beyond other bloom boosters. Enriched with stress reducing vitamins and nutrient transporting acids, Liquid KoolBloom promotes heavy production of essential oils, fantastic flavors, and increases fruiting and flower development. Liquid KoolBloom is instantly soluble in your reservoir and immediately available for plant uptake. It is precisely formulated to enhance the performance of GH's Flora, Nova, and Maxi series nutrients. Liquid KoolBloom should be used at the start of the reproductive cycle initiating larger, heavier fruits and flowers.

**Kool Bloom, Quart Solution**

Item # KABLOOMQT \$ 21.76

**Kool Bloom, 1 Gallon Solution**

Item # KABLOOMG \$ 63.50

**Kool Bloom, 16 Pounds**

Item # KABLOOM16 \$ 235.00

Dry KoolBloom (2-45-28) is packed with the potency your plants prefer in the final stages of flowering for raging weight gain and ripening to perfection. The ingredients that make Dry KoolBloom unique will make your fruits swell, while exponentially increasing the production of essential oils and floral fragrance. It is rich in phosphorous and potassium, fortified by secret ingredients. This blend enhances production of essential oils and fragrances by mildly stressing plants during the formation of fruits and flowers. Dry KoolBloom is used during the second phase of reproductive growth in conjunction with Liquid KoolBloom, which is used at the start of flowering.

**Kool Bloom, 2.2 Pounds**

Item # KABLOOM \$ 29.40

American Pride is an organic based dry mix, all-purpose, time release fertilizer for flowers. Especially effective for roses, containing: alfalfa, iron, and linoleic acid, as well as iron & copper for rich, dark green foliage and abundant blooms. It is more suitable for flowers than vegetables. Use 2-3 times per year on outdoor flowering trees and shrubs. It is great for roses, tomatoes, and lawns by promoting quick green-up and plant vitality. America Pride will increase size and color intensity of buds and blooms. Premium water soluble organics, plus low salt plant foods. It activates with beneficial microbes naturally found in healthy soil.

**American Pride, 4 Pounds**

Item # FOX6000 \$ 12.95

Marine Cuisine (10-7-7) Seafood for Your Garden. Potent time-release fertilizer for outdoor plants just 1-2 times a year! Organic and mineral based nutrients provide a balanced diet with consistent feeding all year. Use on all evergreen trees and shrubs, acid loving plants, perfect for vegetables. Use at planting or scratch into surface and water in. Organic based formula contains specific ocean bi-products, plus low salt plant foods known for their powerful effect on plant life. Encourages beneficial microbe populations needed for optimum growing conditions. Marine Cuisine helps soil defend against harmful nematodes naturally. It is ideal for vegetables and flower gardens. Long term feeding with staying power.

**Marine Cuisine, 4 Pounds**

Item # FOX7000 \$ 12.95

High Phosphorus Bat Guano (0-4-0) is perfect for gardeners who want the extra strength of this single, powerful ingredient. Because of the long aging process this product goes through, bat guano is packed with phosphorus to deliver spectacular flowers, sweeter fruit, and multiple bud set.

**Peace of Mind High Phosphorus Bat Guano, 4 Pounds**

Item # FOX9000 \$ 12.95

Steamed Bone Meal (3-15-0) is the secret ingredient of flower gardeners. For healthy plant growth, supplement your regular feeding program with our bone meal. It contains calcium, which creates strong cellular development in plants. Packed in a resealable plastic bag.

**Peace of Mind Steamed Bone Meal, 4 Pounds**

Item # FOX9010 \$ 8.95

Organic Tomato & Vegetable formula (7-4-5) is pH-balanced with premium organic ingredients like bat guano, kelp meal, alfalfa meal, fish meal and humic acid, a naturally occurring organic material that is formed when organic matter decomposes. Humic acid helps with seed germination and may increase the uptake of important micronutrients. Tomato & Vegetable is granulated and easy to use, and it provides gentle, slow-release feedings all season long.

**Peace of Mind Tomato & Vegetable Fertilizer, 4 Pounds**

Item # FOX9001 \$ 8.95

## PLANT CARE

A multi purpose wetting agent that improves spray coverage in soil and on plants and increases the speed of moisture penetration in soils and growing medias. Additionally, it reduces the surface tension of spray nozzles and irrigation systems, helping to maintain cleaner lines and drippers.

SM-90 is a non-toxic, biodegradable, and environmentally friendly product.

**SM-90 Liter**

Item # SM90 \$ 19.95

**SM-90 4 Liter**

Item # SMG90 \$ 64.95

Don't Bug Me contains Pyrethrins made from chrysanthemum flowers. It kills harmful garden pests on contact and allows for repeated use without hurting humans or the environment.

Can be applied up to the day of harvest

**Don't Bug Me Spray, 24 ounces**

Item # FOX8000 \$ 12.95

Pyrethrum TR is a total release (fogger) insecticide derived from Chrysanthemums. Pyrethrum provides the effectiveness and convenience of a total release fogger, which gives growing operations quick, thorough coverage, excellent plant safety, low worker exposure and short reentry times. Pyrethrum kills aphids, beetles, cucumber beetles, dried fruit beetles, flea beetles, cabbage worms, fungus gnats, hornworms, leafhoppers, mealybugs, mites, rose chafers, rose slugs, spider mites, spiders, trogaderma, thrips, and whiteflies. CAUTION RECOMMENDED. Restricted Use Product in NY.

**Pyrethrum, Ounces**

Item # INS1011 \$ 20.00

Sticky Cards avoid pest damage by monitoring for key pests. Use for: Whiteflies, Aphids, Flea Beetles, Leafminers, Thrips, Bean Beetles and Fungus Gnats. These sticky traps will tell you when pest movement begins, helping you time treatments. The pests are attracted to this bright yellow card then become entangled in the sticky coating. Place traps in plants in perimeter rows of your planting or greenhouse.

**Yellow Sticky Cards, 3" x 5"**

Item # STI2000 \$ 5.95

Dyna-Gro Pure Neem Oil - "All Natural Leaf Polish" is cold pressed from the seeds of the neem tree. This organic leaf polish can be used on any plant to produce clean, shiny leaves. Pure Neem Oil leaves a natural shine on leaves without clogging the stomata. 100% Organic

**Neem Oil, 8 ounces**

NEE1000 \$ 9.95

**Neem Oil, 32 ounces**

NEE1001 \$ 28.95

Nutrilife H2O2 is a 29% liquid concentrate solution that adds oxygen to nutrient solutions through chemical compounds. This sterilization additive is excellent for cleaning and disinfecting hydroponic equipment, materials, and growing areas.

**H2O2, 1 Liter**

Item # SUP4000 \$ 11.85

## SYSTEM CLEANING and Plant Flushing Products

A clean system is a happy system. Flushing nutrients from plants before harvest improves flavor, especially when using chemically derived nutrients.

FloraShield maintains healthy roots without resorting to harsh, toxic chemicals. It's unique combination of compounds can thoroughly rinse systems and plants during all phases of the life cycle. It is safe to use on and around actively growing plants at all stages of growth.

**FloraShield, 32 ounces**

Item # FLO4000 \$ 28.75

Clearrex is a scientifically formulated isotonic drench solution, which effectively binds with the excess nutrient salt and safely leaches it from the soil. Clearrex is isotonic to create a safe osmotic environment which prevents bacterial and fungal infections often caused by other leaching methods. Clearrex is a multi-beneficial water treatment solution: from preventing irreversible wilting to enhancing the flavor and yields of your vegetative plants.

**Clearrex, 1 Quart**

Item # CLE1000 \$ 14.50

**Clearrex, 1 Gallon**

Item # CLE1001 \$ 32.50

FloraKleen removes fertilizer residue that can accumulate over time in hydroponic systems, growing media, and potting soils. Use FloraKleen monthly to purge your hydroponic system or potted plants of excess salts that can accumulate as a result of regular fertilizer application. FloraKleen is an excellent final flush, and can be used at any time to dissolve mineral and salt buildup. Its high concentration and low price make FloraKleen the economical choice for maintaining your plants in both hydroponic and soil based environments

**FloraKleen, 1 Gallon**

Item # FLO4100 \$ 23.00

## ODOR CONTROL

All the products below work by eliminating, not masking odor causing molecules.

Breathe easy while the Uvonair attacks and neutralizes odors at the source. Uvonair eliminates odors caused by tobacco smoke, molds and mildew. It even tackles the unpleasant odors from pets, cooking, and damp basements. How? The Uvonair generates Ozone (O3) - one of the most powerful oxidizers available. O3 doesn't just mask odors like mere air fresheners - it neutralizes odors at the source, then harmlessly converts to CO2 and oxygen. The Uvonair works silently with the same ozone generating technology available in units costing hundreds of dollars more. The Uvonair is ideal for homes, offices, workplaces anywhere that can benefit from purer, cleaner air.

**Ozone Generator- 1000 Junior**

Item # OZN1000 \$ 231.95

**Ozone Generator 3000 Standard**

Item # OZN1001 \$ 241.95

Ozone Generator 5000 Plus	Item # OZN1002	\$ 256.95
CanFilter 9000, 55 CFM max	Item # CANFIL9000	\$ 71.11
CanFilter activated charcoal filter, 200 CFM max	Item # CANFIL33	\$ 124.44
CanFilter activated charcoal filter, 412 CFM max	Item # CANFIL66	\$ 193.32
CanFilter activated charcoal filter, 840 CFM max	Item # CANFIL100	\$ 282.21
Can Flange 6" for 33/66/100 can filters	Item # CANFLANGE	\$ 15.55
CanFilter Flange 9000 , 4"	Item # CANFLANGE4-9000	\$ 71.11

Ona Blocks are used as a standalone odor neutralizer. It is safe to use around plants, people and animals and is environmentally friendly. Ona is a complex formula using essential oil (plant based) technology to destroys wide spectrum of organic and non-organic odors. Ona is not a masking agent, it neutralize odors.

Ona Pro Block, 6 Ounces	Item # ONA1000	\$ 8.95
Ona Fresh Linen Block, 6 Ounces	Item # ONA1001	\$ 8.95

## TESTING

### pH Adjustment

It is critical to monitor the pH of your nutrient solution and keep it around 6-6.5. Otherwise plants will not absorb some nutrients and can get deficiencies even when all essential nutrients are present in the correct concentrations.

Blue Lab Combo Meter is a conductivity, pH and temperature meter all in one. It comes with a pH probe and conductivity/temperature probe, which are simply placed into the solution and the selected reading is displayed on screen. As the Blue Lab Combo Meter is portable and does not require a power supply to operate, it can be used anytime and anywhere to help you manage your crops daily nutrient requirements.

Blue Lab Combo Meter	Item # PHM3000	\$ 224.95
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BlueLab Guardian Monitor is a constant indicator of the desired levels of EC, pH and temperature, enabling the grower to optimize these parameters as the crop progresses through each growing phase. The Guardian removes the complexity of how each parameter relies on each other for outstanding growth. The innovative monitor is a new method to help guard the success of your crops with immediate and accurate results. A flashing display lets you know if one parameter moves away from the ideal, allowing you to make the required adjustments quickly and effectively.

Blue Lab Guardian	Item # PHM3002	\$ 274.95
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pH Control Kit comes with a basic liquid pH test kit and pint bottles of pH up and down

	Item # PHT4000	\$ 17.20
Basic pH Test Kit Contains pH test fluid and test strips	Item # PHT3000	\$ 7.54

pH Test Strip kit, 100 strips, pH range 4-7, 1 color	Item # PHK1020	\$ 30.00
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To maximize plant growth, the pH content of your nutrients should be slightly acidic. Experienced growers consider the ideal pH for most crops to fall between 5.5 and 6.5. Users of General Hydroponics nutrient products generally do not experience problems maintaining the proper pH range because our formulas are pH buffered. However, some important exceptions do exist. Acid content can reach unacceptable levels when nutrient solutions are mixed with poor quality water, or pH unstable media - such as rock wool and gravel products - are used, and when high plant growth rates destabilize the nutrient mix due to rapid nutrient absorption by the crop. pH Down is acid formulated using food grade Phosphoric acid. Just add a little at a time if your nutrient pH is too high in order to lower the pH to the proper level.

pH Down, 1 Quart	Item # HYD5000	\$ 10.76
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pH Down, 1 Gallon	Item # HYD5002	\$ 26.90
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pH Up is a base formulated using Potassium Hydroxide and Potassium Carbonate. Add a little at a time if your nutrient pH is too low in order to raise the pH to the proper level.

**pH raise, Quart**

Item # HYD5001 \$ 10.76

**pH raise, Gallon**

Item # HYD5003 \$ 26.90

**METERS- pH, EC, TDS**

Hanna Combo pH/EC/TDS Meter is designed for high accuracy portable pH, EC/TDS and temperature measurements. No more switching between meters, the Combo does it all. This waterproof, floating meter has a replaceable pH electrode with a cloth junction for rejuvenation of the electrode. The large dual-level LCD is easy to read and also displays the battery life percentage when first turned on. Automatic temperature compensation and automatic shut-off. Measures EC from 0.00 to 20.00 mS/cm, TDS from 0.00 to 10.00 ppt, pH from 0.00 to 14.00 and temperature from 32°F to 140°F.

**Hanna Combo pH/EC/TDS Meter**

Item # PHEC1000 \$ 148.00

Hanna DiST 6 EC Meter includes features such as a replaceable graphite electrode, adjustable TDS ratio, temperature in °C or °F, automatic temperature compensation (ATC) with adjustable β, battery level indicator, stability indicator, automatic shut-off and automatic calibrating all in a floating, waterproof casing. This 3-in-1 tester is unmatched in Conductivity/TDS/Temperature measurements!

**Hanna DiST6 EC Meter**

Item # ECM1100 \$ 95.00

The waterproof Hanna pHep 4 pH testers have a dual-level LCD that displays pH and °C or °F. At startup, pHep® performs a self check then displays the remaining battery level to assure proper working condition. These testers also feature a stability indicator and hold feature to prompt the user when to take the reading & freeze the display for easy and accurate recording. These pH/Temperature meters have a stainless steel temperature probe for faster and more precise temperature measurement and auto-compensation. 1 or 2 point calibration is made simple with automatic recognition of both standard and NIST buffer sets. This meter comes complete with protective cap, electrode removal tool, batteries and manual.

**Hanna pHep 4 pH Meter**

Item # PHT1000 \$ 82.00

pH calibration solutions are the highest quality electronic meter reference solutions. Used widely among many popular brands of meters using the NaCl scale. Use 7.01 for basic calibration or do a 2-point calibration with 7.01 And 4.01 solutions.

**Calibration solution pH 7.01, 8 ounces**

Item # CAL4007 \$ 7.54

**Calibration Solution pH 4.01, 8 ounces**

Item # CAL4005 \$ 7.54

**EC/TDS calibration solutions**

**Buffer 4, Pint**

Item # PHB1000 \$ 18.00

**Buffer 7, Pint**

Item # PHB1004 \$ 18.00

The BlueLab pH Cleaning & Calibration Kit contains everything you need to clean a pH probe, ensure accurate readings, and get the most out of your investment. The kit includes detailed instructions, de-canter vessels, probe cleaner, cleaning tool, toothbrush, and calibration solutions. Cleaning is a very easy task and it prolongs the life of the truncheon or meter.

**pH Probe Clean Kit**

Item # PHM3100 \$ 24.95

The BlueLab CF Cleaning Kit contains everything you need to clean a conductivity probe to ensure accurate readings and prolong the probe's useful life. The kit includes detailed instructions, de-canter vessel, probe cleaner, probe chamois, and conductivity standard solution. Cleaning is a very easy task and it prolongs the life of the truncheon or meter.

**EC Probe Clean kit**

Item # PHM3200 \$ 19.95

Active Air 3 Way Meter makes it easy for gardeners to test their moisture, light, and pH levels with the handy meter. Moisture readings register on a scale of 0 (dry) to 10 (moist), light readings range from 0 (low light) to 2000 (very strong light), and pH readings between pH 0 (acidic) and pH 10 (basic) are represented. The durable, easy-to-read tester is suitable for indoors or out and needs no batteries to operate.

**3 Way Meter**

Item # 3WAYMETER \$ 9.95