



## ENVIRONMENTAL CONTROLLERS

Code#	Description	Case Pk	MSRP
702305	CO <sub>2</sub> Test Kit	1	\$19.95/ea

### CO<sub>2</sub> TEST KIT

Includes: 1 - 100cc syringe, 2 - rae systems test tubes & instructions.



Code#	Description	MSRP
702300	CO <sub>2</sub> Detector Tubes	\$39.95/box

### CO<sub>2</sub> DETECTOR TUBES

Range: 300 - 5000 ppmv, Sample Volume: 100 ml, Sample Time: 2 min., Color: White to Purple. **Box contains 10 tests.**



### *“The Environmental Control Specialists”*

Features of the line include:

- All products are in ABS Plastic, corrosion resistant covers
- Plastic Enclosures are Non-Conductive
- One of the industry's finest warranties
- All products fuse protected
- Made in USA

The Greenhouse Controllers, models CGC-1 and XGC-1 feature an all-in-one design that is preferable to the traditional “component-chain” solutions. These units are compact and reliable - a must for the serious grower!

### CAP 3 Year Warranty

CAP controls are warranted to be either rebuilt or replaced at the Manufacturer's determination for a period of 3 years of normal use. Modification, misuse or abuse voids this warranty.

## TIMERS/PHOTO CONTROLS

Code#	Description	MSRP
702200	ART 2 Adjustable Timer	\$104.95
702205	ART 3 Adjustable Timer	\$104.95

### ART-2 AND ART-3 ADJUSTABLE RECYCLE 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 series has a user adjustable ON time of 30 seconds to 30 minutes. The ART-2 has a user adjustable OFF time of 3-120 minutes, while the ART-3 OFF time is adjustable from 12-480 minutes. Compact and simple to use... just set the ON and OFF time at the desired intervals and plug it in. The ART timers have a wide range of uses including controlling hydroponic pumps, simple CO<sub>2</sub> controller, turning on and off ozone generators, running exhaust fans, etc. Rated for 15 amps @ 120 volts.

ART-2 has a user adjustable of time of 3 - 120 minutes

ART-3 OFF time is adjustable from 12-480 minutes.



Code#	Description	MSRP
702210	NFT 1 - Preset Recycle Timer	\$84.95
702215	NFT 2 - Preset Recycle Timer	\$84.95

### NFT 1 AND NFT 2 PRESET RECYCLE TIMERS

The NFT series of preset recycling timers are the simplest devices available for turning a device ON and OFF at precise intervals. The NFT-1 timer is pre-set to turn ON for 1 minute and OFF for 4 minutes. The NFT-2 timer is preset at 3 minutes ON and 5 minutes OFF. Plug the NFT into any standard outlet... plug whatever you want to control into the receptacle on the front face... and you're done. Rated for 15 amps @ 120 volts.

The NFT-1 timer is pre-set to turn ON for 1 minute and OFF for 4 minutes.

The NFT-2 timer is pre-set at 3 minutes ON and 5 minutes OFF.



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**CAP CONTROLLERS**

# ENVIRONMENTAL CONTROLLERS



## PTC 1 AND PTC 2 PHOTO CONTROLLERS



Code#	Description	MSRP
702190	PTC 1 - Photo Controller for DAY	\$72.95
702195	PTC 2 - Photo Controller for NIGHT	\$72.95

The PTC series of photo controllers are perfect when you need to turn something ON only during daylight hours or only at night. A photocell senses whether it is day or night, and turns the device plugged into it On or OFF depending on which model you are using. The PTC-1 turns ON whatever is plugged into it during the "day" when the lights are on. The PTC-2 turns ON the device during the "night", when the lights are off. Rated for 15 amps @ 120 volts.

The PTC-1 turns ON whatever is plugged into it during the DAY when the lights are on.

The PTC-2 turns ON whatever is plugged into it during the NIGHT when lights are off.

## ATMOSPHERE CONTROLS

### TMP-1 COOLING THERMOSTAT



Code#	Description	MSRP
702050	TMP-1 Cooling Thermostat	\$84.95

The TMP-1 allows you to control the temperature within your growing environment. Just connect your cooling equipment, then set the temperature that you wish to maintain. If the temperature exceeds your setting, the outlet on the front is activated. Comes with a 3' remote sensor. Rated for 15 amps @ 120 volts.

### AIR-1 TEMPERATURE/HUMIDITY CONTROL



Code#	Description	MSRP
702100	AIR-1 Temperature/Humidity Control	\$154.95

The AIR-1 allows you to control the temperature and humidity within your growing environment. Connect your ventilation equipment (air conditioner, fan, etc.) to the exhaust outlet. Then set your temperature and humidity to the level that you wish to maintain. If either level is exceeded, the exhaust outlets are activated to reduce heat and humidity. Rated for 15 amps @ 120 volts.

### AIR-2 INDEPENDENT TEMPERATURE/HUMIDITY CONTROL



Code#	Description	MSRP
702105	AIR-2 Independent Temperature/Humidity Control	\$154.95

The AIR-2 has the same features as the AIR-1 with the exception of separate temperature and humidity outlets. This allows you to control the temperature and humidity independently. Once you have connected your temperature control device (air conditioner, fan, etc) and a dehumidifier to the AIR-2, your desired temperature and humidity are automatically maintained. Rated for 15 amps @ 120 volts.

### AIR-3 TEMPERATURE/HUMIDITY/CO<sub>2</sub> CONTROL



Code#	Description	MSRP
702110	AIR-3 Temperature/Humidity/CO <sub>2</sub> Control	\$229.95

The AIR-3 expands our line of atmospheric controllers by providing the ability to coordinate supplemental CO<sub>2</sub> with your ventilation equipment. The AIR-3's operation is similar to the AIR-1, with the addition of a photo cell and CO<sub>2</sub> outlets. The photo cell ensures that your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) only activates when your lights are on. To conserve CO<sub>2</sub>, the CO<sub>2</sub> outlets are automatically disabled while your ventilation equipment is running. Rated for 15 amps @ 120 volts.



## ENVIRONMENTAL CONTROLLERS

Code#	Description	MSRP	AIR-3DN DAY/NIGHT TEMPERATURE & CO <sub>2</sub> CONTROLLER
702295	AIR-3DN Temperature & CO <sub>2</sub> Controller	\$259.95	

The AIR-3DN provides the ability to coordinate supplemental CO<sub>2</sub> with your ventilation equipment. It features separated day and night temperature settings. The AIR-3DN has a photo cell ensures that your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) only activates when your lights are on. It also has a night heat outlet to allow you to heat the area at night if necessary to maintain proper temperature. To conserve CO<sub>2</sub>, the CO<sub>2</sub> outlets are automatically disabled while your ventilation is running. Rated for 15 amps @ 120 volts.



Code#	Description	MSRP	AIR-4 INDEPENDENT TEMPERATURE/HUMIDITY/CO <sub>2</sub> CONTROL
702115	AIR-4 Independent Temperature/Humidity/CO <sub>2</sub> Control	\$249.95	

The AIR-4 has all the features of the AIR-3 with the addition of independent temperature and humidity controls. It also has an increased power capacity to control up to 15 amps of equipment. An additional outlet is provided which will power equipment only during the 'night' cycle. Features include independent temperature and humidity control, coordinated CO<sub>2</sub> sequencing and an additional outlet that is powered only while the lights are off. Rated for 15 amps @ 120 volts.



## LIGHTING CONTROLS

Code#	Description	MSRP	HLC-1 HIGH TEMPERATURE SHUT-DOWN
702150	HLC-1 High Temperature Shut-Down Control	\$84.95	

The HLC-1 is used as a high temperature shutdown by plugging your lights into the outlet and setting the maximum temperature that your growing environment can sustain. If this setting is exceeded, your lights will turn off. This is cheap insurance for your garden. The HLC-1 can also be used as a heating thermostat. Connect your heating equipment to the heating outlet, and then set the temperature that you wish to maintain. If the temperature falls below your setting, the heating outlet is activated. Comes with a 3' remote temperature sensor. Rated for 15 amps @ 120 volts.



Code#	Description	MSRP	HLC-2 15 MINUTE ON DELAY LIGHT CONTROL
702155	HLC-2 15 Minute ON Delay	\$92.95	

The HLC-2 is designed to protect your expensive HID lights from "Hot Starts." A hot start occurs whenever your lights are turned OFF and then back ON before the lamp is allowed to cool off. Hot starts caused by power outages reduce your lamp's life and intensity. When the HLC-2 is connected to your lights, it will sense a power interruption and start a 15 minute time delay to keep the lights from trying to re-fire during the cool down period. The HLC-2 can also be used to delay other devices from starting for 15 minutes when power is applied. Rated for 15 amps @ 120 volts.



Code#	Description	MSRP	HLC-3 HIGH TEMPERATURE SHUT-DOWN WITH 15 MINUTE ON DELAY
702160	HLC-3 High Temperature Shut-Down w/ 15 min. ON delay	\$139.95	

The HLC-3 HID lighting controller combines the functions of the HLC-1 and HLC-2 to protect your expensive HID lights from hot starts and your garden from high temperatures. A high temperature shutdown provides insurance from crop damage due to high heat from ventilation and cooling problems. When connected to your lights, it will monitor your growing area's temperature and disable your lights if the maximum temperature you specify is exceeded. The HLC-3 will also sense a power interruption and start a 15 minute time delay to keep your lights from trying to re-fire during the cool down period. Comes with a 3' remote temperature sensor. Rated for 15 amps @ 120 volts.







## POWER HANDLING CONTROLS

### UPM-1 UNIVERSAL POWER MODULE



Code#	Description	MSRP
702075	UPM-1 Universal Power Module	\$89.95

The UPM-1 Universal Power Module is a unique device that can allow the user to run additional HID lights or control multiple fans/air conditioners or other high amperage 120 volt equipment. The UPM-1's "plug-box" is designed to be plugged into a standard household outlet. The 16 foot "trigger cable" coming from the UPM-1 is then connected to your control device such as a time clock, thermostat or environmental controller. When the control device applies power to the "trigger cable", the relay inside the UPM-1 applies power to the twin outlets on the front of the UPM-1. Rated at 15 amps @ 120 volts.

### HPR-1 HIGH POWER RELAY



Code#	Description	MSRP
702080	HPR-1 High Power Relay	\$169.95

The HPR-1 is a hard-wired 30 amp capacity, 240 volt version of the UPM-1. The HPR-1 is perfect for controlling higher loads such as large air conditioners or multiple HID ballasts. You supply 240 volt power to the input side of the HPR-1. The air conditioner or ballasts to be controlled are then hard-wired into the output side of the relay. The 16 foot "trigger cable" coming from the HPR-1 is then connected to your control device such as a time clock, thermostat or environmental controller. When the device applies power to the "trigger cable", the relay in the HPR-1 applies power to the connected equipment. Rated at 30 amps @ 240 volts.

### MLC-4, 4a, 4T & 4aT LIGHTING RELAYS



Code#	Description	MSRP
702165	MLC-4 Lighting Relay	\$207.95
702167	MLC-4T Lighting Relay with Timer	\$269.95
702170	MLC-4a Lighting Relay	\$197.95
702172	MLC-4aT Lighting Relay with Timer	\$248.95

The MLC-4 Master Lighting Controller is the best device for controlling up to four HID lights from one time-clock or controller. You run 30 amp, 240 volt power into the MLC-4, and all of the outlets are controlled by one 120 volt "trigger cable". You can plug the "trigger cable" into a standard 24 hour timer or lighting controller. The MLC-4 features four standard 240 volt style (NEMA 6-15) outlets, which your ballasts are plugged into. The MLC4a uses 120 volt style (NEMA 5-15) outlets which allows for running your ballasts at 240 volts without having to change out your ballast power cord. An integrated timer option is available which replaces the "trigger cable", allowing you to control your MLC with the built-in time clock. NOTE: Make sure ballasts are wired/configured for 240 Volt operation before energizing them. Rated at 30 amps @ 240 volts.

### MLC-8, 8a, 8T & 8aT LIGHTING RELAYS



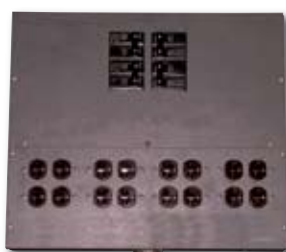
Code#	Description	MSRP
702175	MLC-8 Lighting Relay	\$299.95
702176	MLC-8a Lighting Relay	\$284.95
702177	MLC-8T Lighting Relay with Timer	\$359.95
702178	MLC-8aT Lighting Relay with Timer	\$324.95
702179	MLC-8D Lighting Relay Dual Trigger Cable	\$315.95
702180	MLC-8Da Lighting Relay Dual Trigger Cable	\$295.95

The MLC-8 Master Lighting Controller is the best device for controlling up to eight HID lights from one time-clock or controller. You run 40 amp, 240 volt power into the MLC-8, and all of the outlets are controlled by one 120 volt "trigger cable". You can plug the "trigger cable" into a standard 24 hour timer or lighting controller. The MLC-8 features eight standard 240 volt style (NEMA 6-15) outlets, which your ballasts are plugged into. The MLC-8a uses 120 volt style (NEMA 5-15) outlets which allows for running your ballasts at 240 volts without having to change out your ballast power cord. An integrated timer option is available which replaces the "trigger cable", allowing you to control your MLC with a built-in time clock. NOTE: Make sure ballasts are wired/configured for 240 Volt operation before energizing them. Rated at 40 amps @ 240 volts. The "D" models with dual trigger cables allow the user to control half of the lights independent of the other half when plugged into two different timers.

### MLC-16 & MLC-24 LIGHTING RELAYS

#702225

#702220



Code#	Description	MSRP
702220	MLC-16 Lighting Relay	\$619.95
702221	MLC-16a Lighting Relay	\$619.95
702222	MLC-16D Lighting Relay Dual Trigger Cable	\$644.95
702223	MLC-16Da Lighting Relay Dual Trigger Cable	\$644.95
702225	MLC-24 Lighting Relay	\$729.95
702226	MLC-24a Lighting Relay	\$729.95
702227	MLC-24D Lighting Relay Dual Trigger Cable	\$759.95
702228	MLC-24Da Lighting Relay Dual Trigger Cable	\$759.95

controlling up to 24 lights from one time-clock or controller. You run either 80 (MLC-16) or 120 (MLC-24) amp power to the MLC, and all of the outlets are controlled by one 120 volt "trigger cable". You can plug the "trigger cable" into a standard 24 hour timer or lighting controller (HLC series). The MLC-16 and 24 feature standard 240 volt style (NEMA 6-15) outlets, which your ballasts are plugged into. The MLC-16 contains 4 banks of 4 lights. The MLC-24 contains 6 banks of 4 lights. Each bank of 4 lights is protected by a 20 amp circuit breaker. The (a) units offer 120 volt receptacles instead of 240 volt receptacles. The "D" models with dual trigger cables allow the user to control half of the lights independent of the other half when plugged into two different timers.



# ENVIRONMENTAL CONTROLLERS

## CO<sub>2</sub> CONTROLS

Code#	Description	MSRP	CO <sub>2</sub> 2 TEMPERATURE, HUMIDITY & CO <sub>2</sub> CONTROL
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702025 CO<sub>2</sub> - 2 Atmosphere Control - 2 Timers

\$339.95

The CO<sub>2</sub> 2 has two timers that are used to add just the right amount of CO<sub>2</sub> without the wasteful "overshoot" that other controllers have. One timer controls the length of time the CO<sub>2</sub> is released and the other controls how often the CO<sub>2</sub> is released. The result is a very efficient method of controlling CO<sub>2</sub>. It also features temperature and humidity controls which will disable CO<sub>2</sub> injection if the temperature or humidity levels that you specify are exceeded, activating an exhaust outlet which can control ventilation equipment (air conditioner, fan, etc.) It also has a built in photo controller, which disables the CO<sub>2</sub> function when the lights are off. The CO<sub>2</sub> 2 can be converted to PPM level accuracy with the addition of the PPM-1c CO<sub>2</sub> sensor. Rated for 15 amps @ 120 volts.



Code#	Description	MSRP	CO <sub>2</sub> - 4 TEMPERATURE, HUMIDITY & CO <sub>2</sub> CONTROL
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702030 CO<sub>2</sub> - 4 Atmosphere Control - 4 Timers

\$479.95

Rated for 15 amps @ 120 volts. The CO<sub>2</sub> 4 has four timers that are used to control your CO<sub>2</sub>. In addition to all the features of the CO<sub>2</sub> 2, the CO<sub>2</sub> 4 adds two additional internal timers. The "Overall Cycle timer" allows the user to decide how long the supplemental CO<sub>2</sub> is kept in the growing area prior to being exhausted. When the "Overall Cycle" time expires, the CO<sub>2</sub> 4 turns ON the exhaust outlets and enables the "Exhaust Cycle Timer", which controls the amount of time the exhaust fans will run. When complete, the cycle is reset and the CO<sub>2</sub> cycle starts again. The CO<sub>2</sub> 4 can also be used with the PPM-1c sensor for unequalled Parts-Per-Million performance.



## CO<sub>2</sub> / PPM ATMOSPHERE CONTROLS

Code#	Description	MSRP	CO <sub>2</sub> / PPM (Parts Per Million) MONITOR (Integrable Option)
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702035 PPM - 1c CO<sub>2</sub> PPM Monitor

\$499.95

The PPM-1C is an accurate Carbon Dioxide/CO<sub>2</sub> sensor. It measures exact levels of CO<sub>2</sub> in your growing area & displays this value from 0 to 5000 PPM on its' digital readout. Even though the PPM-1c is not realized until it is connected to one of the three controllers C.A.P. has designed to work with it. When the PPM-1c is connected to either the CO<sub>2</sub> 2, CO<sub>2</sub> 4 or CGC-1 controller, it commands the controllers to release or produce more CO<sub>2</sub> only when required. The timers built into the environmental controllers continue to coordinate with the PPM-1c to give you the precision control not possible with other manufacturers' CO<sub>2</sub> control systems using only on/off control. The user enters the exact level of CO<sub>2</sub> they want to maintain (usually 1500 PPM) and enters that value directly into the PPM-1c. The PPM-1c works with any 120 volt CO<sub>2</sub> valve or generator that is 120 volt.



Code#	Description	MSRP	CO <sub>2</sub> / PPM (Parts Per Million) MONITOR/CONTROL
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702020 PPM - 3 CO<sub>2</sub> PPM Control

\$499.95

The PPM-3 from C.A.P. is the most affordable and simple CO<sub>2</sub> controller available. Its' proven technology is very accurate at measuring levels of Carbon Dioxide in your growing area from 0 to 5000 ppm (Parts-Per-Million). Using the PPM-3 is quite simple. Just plug your CO<sub>2</sub> device (CO<sub>2</sub> valve or generator) into the "piggyback" cord and it will automatically maintain the CO<sub>2</sub> level that you specify. The PPM-3 works with any make of CO<sub>2</sub> valve or generator that is 120 volt.



Code#	Description	MSRP	FUZZY-LOGIC™ CO <sub>2</sub> MONITOR/CONTROL
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702040 PPM - 2a Fuzzy-Logic™ Monitor/CO<sub>2</sub> Control

\$689.95

People who need the absolute best CO<sub>2</sub> controller available today, use the PPM-2a. Fuzzy Logic™ slows the CO<sub>2</sub> level up to the desired setting without over-shooting the desired CO<sub>2</sub> level. The PPM-2a automatically "dials-in" the exact parameters for your area. It learns how your grow area uses CO<sub>2</sub> and adapts to keep the CO<sub>2</sub> levels constant. The PPM-2a can be connected to a temperature or environmental controller, disabling the CO<sub>2</sub> function while your exhaust fans are running to reduce CO<sub>2</sub> waste. The PPM-2a is capable of being used to control both compressed CO<sub>2</sub> and gas-burning CO<sub>2</sub> generators. When used with a CO<sub>2</sub> generator, the user can change the PPM-2a mode to ON / OFF control which eliminates the rapid cycling of the CO<sub>2</sub> generator. The PPM-2a will control any make of CO<sub>2</sub> valve or generator that is 120 volts.





## MASTER GROW ROOM / GREENHOUSE CONTROLS

### COMPLETE GREENHOUSE CONTROLLER



Your garden's HID lights are controlled by a precision 24-hour time clock. Two outlets are provided for your lights. Other functions such as supplemental CO<sub>2</sub> and hydroponic pumps are also coordinated with the time clock. Two of the outlets on the CGC-1 are for your exhaust fans or air conditioner. A built-in thermostat and humistat handle the growing area's temperature and humidity control functions. The two pump outlets allow water pumps to be controlled by the built in Adjustable Recycling Timer. A selector switch allows you to determine if the hydroponic pumps are to cycle only when the lights are ON or 24 hours a day. An auxiliary NIGHT outlet is activated when the lights are turned off. Perfect for controlling humidity at night using a dehumidifier or for a separate heater. Supplemental CO<sub>2</sub> is coordinated to work with your exhaust fan's temperature and humidity control functions. When the exhaust fans are running, the CO<sub>2</sub> outlet is disabled to conserve CO<sub>2</sub>. Two standard built in timers control your CO<sub>2</sub> valve or generator. It can be upgraded to Part Per Million accuracy by plugging in the PPM-1c CO<sub>2</sub> monitor. CGC-1 is rated for 15 amps @ 120 volts.

#### Code# Description

702120 CGC-1 Greenhouse Controller

#### MSRP

\$619.95

### XGC-1 XTREME GREENHOUSE CONTROLLER



Control ALL your equipment from ONE compact, reliable controller! The XGC-1 is the best all in one controller ever made. The specifications of the XGC-1 are identical in every way to the CGC-1, except for the addition of Fuzzy Logic™ CO<sub>2</sub> control built in! Fuzzy Logic™ can be compared to a good driver. As a good driver approaches a red light, he or she applies the brakes to gradually slow down BEFORE getting to the intersection. Fuzzy Logic™ uses the same idea to keep the CO<sub>2</sub> level at your desired setting, without going over the set point.

#### Code# Description

702125 XGC-1 Greenhouse Controller

#### MSRP

\$1,124.95

## CO<sub>2</sub> GENERATORS

Carbon Dioxide (CO<sub>2</sub>) is one of the easiest ways to accelerate plant growth. Plants grown with supplemental CO<sub>2</sub> can produce up to 40% more flowers or fruit. A propane or natural gas CO<sub>2</sub> generator is the most cost effective way to add CO<sub>2</sub> to your environment. Many greenhouses use CO<sub>2</sub> generators to boost CO<sub>2</sub> levels safely and economically.

C.A.P. has developed some of the safest and most reliable CO<sub>2</sub> Generators. They are capable of producing between 3 and 26 cubic feet of CO<sub>2</sub> per hour. C.A.P. manufactures 2 models, the GEN-1 and the GEN-2. The GEN-1 is recommended for small to medium size areas up to 15' x 15'. The GEN-2 is recommended for larger areas up to 30' x 30'.

### GEN-1LP, GEN-1LPE, GEN-1NG, & GEN-1NGE



GEN-1: The GEN-1 is capable of producing between 3 and 13 cubic feet of CO<sub>2</sub> per hour. It comes standard with one burner, producing approximately 3 cubic feet per hour. You can add up to 3 additional burners, increasing the unit's capacity to up approximately 13 cubic feet of CO<sub>2</sub> per hour.

A Propane Crossover is available which will allow you to connect 2 propane tanks to your generator and run off of either or both tanks.

#### Code# Description

702250 GEN-1LP Liquid Propane CO<sub>2</sub> Generator (includes 1 burner) \$409.95

702320 GEN-1LPE Liquid Propane Electronic Ignition CO<sub>2</sub> Generator (includes 2 burners) \$469.95

702260 GEN-1NG Natural Gas CO<sub>2</sub> Generator (includes 1 burner) \$409.95

702322 GEN-1NGE Natural Gas Electronic Ignition CO<sub>2</sub> Generator (includes 2 burners) \$469.95

### GEN-2LP, GEN-2LPE, GEN-2NG & GEN-2NGE



The GEN-2 is capable of producing between 16 and 26 cubic feet of CO<sub>2</sub> per hour. It comes standard with 5 burners, producing approximately 16 cubic feet of CO<sub>2</sub> per hour. You can add up to 3 additional burners, increasing the unit's capacity to up to approximately 26 cubic feet of CO<sub>2</sub> per hour.

A Propane Crossover is available which will allow you to connect 2 propane tanks to your generator and run off of either or both tanks.

#### Code# Description

702255 GEN-2LP Liquid Propane CO<sub>2</sub> Generator (includes 5 burners) \$579.95

702324 GEN-2LP Liquid Propane Electronic Ignition CO<sub>2</sub> Generator (includes 5 burners) \$639.95

702265 GEN-2NG Natural Gas CO<sub>2</sub> Generator (includes 5 burners) \$579.95

702326 GEN-2NG Natural Gas Electronic Ignition CO<sub>2</sub> Generator (includes 5 burners) \$639.95





## ENVIRONMENTAL CONTROLLERS

Code#	Description	MSRP	REG-1 CO <sub>2</sub> REGULATOR & VALVE
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702310 REG-1 CO<sub>2</sub> Regulator/Valve

\$154.95/ea

CAP's CO<sub>2</sub> Regulator assembly combines a precision regulator /flow gauge and an industrial solenoid valve. The flow gauge can be set from .5 to 15 SCFH. Designed to work with any 120 volt control device. Complete with 6 foot power cable and 10 foot of 1/4" air line.



Code#	Description	MSRP	REG-2 DUAL TANK CO <sub>2</sub> REGULATOR ASSEMBLY
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702311 REG-2 Dual CO<sub>2</sub> Regulator/Valve

\$239.95/ea

CAP's dual-tank CO<sub>2</sub> regulator assembly combines a precision regulator/flow gauge and an industrial solenoid valve. The unique ability to connect the REG-2 to TWO tanks of compressed CO<sub>2</sub> allows double the run time between changing out the tanks. The flow gauge can be set from .5 to 15 SCFH. Designed to work with any 120 volt control device. Features a tank pressure gauge to indicate remaining tank pressure. Complete with 6 foot power cable and 10 foot of 1/4" air line.



### CO<sub>2</sub> BURNER ACCESSORIES

**BNR-1LP:** These are our expansion Liquid Propane Burners. Each burner will be individually packaged with an expansion burner, pillow pack of Anti-Seize, Hex wrench for removing cap on manifold and complete installation instructions (Takes less than 2 minutes to install.)

**BNR-1NG:** These are our expansion Natural Gas Burners. Each burner will be individually packaged with an expansion burner, pillow pack of Anti-Seize, Hex wrench for removing cap on manifold and complete installation instructions (Takes less than 2 minutes to install.)

**LXO -1 Propane Tank Crossover:** We offer a simple device called the LXO-1 which allows you to connect your propane CO<sub>2</sub> generator to two tanks so when one runs low, it can be changed out without the pilot flame going out. It also doubles the time in between tank changeovers.

**LPC-1:** LP Conversion Kit. This kit will allow the store owner or retail customer to change their Natural Gas Burner to a Liquid Propane Burner. It will come with a LP orifice, LP regulator, and a set of front labels to identify the new unit.

**NGC-1:** Natural Gas Conversion Kit. This kit will allow the store owner or retail customer to change their Liquid Propane Burner to a Natural Gas Burner. It will come with a NG orifice, NG regulator, and a set of front labels to identify the new unit.

**NOTE:** Both of the above kits do NOT include burners. They need to purchase burners separately (BNR-1LP or BNR-1NG). This kit is useful for the store owner so that they do not have to keep both NG and LP generators in stock. They can change one to the other in less than 10 minutes. To keep our competitions generator line in stock, they need 10 units. With our generator, you need 2 units, and a conversion kit!

Code#	Description	MSRP	CO <sub>2</sub> BURNER ACCESSORIES
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702270 Expansion Burner LP (Liquid Propane)

\$29.95

702275 Expansion Burner NG (Natural Gas)

\$29.95

702280 LPC-1 Conversion Kit LP (Liquid Propane)

\$44.95

702285 NGC -1 Conversion Kit NG (Natural Gas)

\$44.95

702290 LXO-1 Change Over Valve - LP

\$81.95



LXO  
Crossover/Connector

## GREEN AIR PRODUCTS

### ATMOSPHERIC CONTROLS MULTI-FUNCTION

Code#	Description	MSRP	INTEGRATED COOLING THERMOSTAT & DEHUMIDISTAT/4 OUTLETS Model CT-DH-1
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702330 Integrated Cooling Thermostat & Dehumidistat/4 Outlets

\$185.00

This CT-DH-1 is designed to turn "On" and "Off" exhaust fans and/or intake fans to remove unwanted atmosphere due to heat or humidity. This device is intended as a cooling and dehumidifying control. This controller is ideal for situations where excess heat and humidity need to be exhausted. Internal sensors will allow a 7° temperature comfort zone and a 7% humidity span (differential) between the time the fans go "Off" and come back "On" again. When either temperature or humidity exceeds the dial settings, all four outlets will turn "ON", activating any cooling or exhaust equipment plugged into the controller.



# ENVIRONMENTAL CONTROLLERS



## SYNCHRONIZED COOLING THERMOSTAT/DEHUMIDISTAT/4 OUTLETS

Model CT-DH-3 & Model CT-DH-3P



702340



While the CT-DH-3 has many applications, it was primarily developed to be used with CO<sub>2</sub> equipment and exhaust type fans. Internal sensors will allow a 7° temperature comfort zone and a 7% humidity (differential) between the time the fans go "Off" and come back "On" again. Temperature or humidity raise will activate the right hand outlets and deactivate the left hand outlets. The CT-DH-3 has an internal relay that automatically switches power from the left side (CO<sub>2</sub> Outlets) to the right side (Exhaust Outlets) of the unit when either temperature, humidity or both are in excess of the dial settings. Plug the controller into a power surge protector to protect your valuable equipment, and then plug the surge protector into a 110 wall outlet. Set the temperature and humidity to the desired settings. The left side of the controller is normally in the "ON" position and is able to activate CO<sub>2</sub> equipment as needed.

Code#	Description	MSRP
702335	Synchronized Cooling Thermostat / Dehumidistat/4 Outlets	\$220.00
702340	Model CT-DH-3P with light activated photosensor	\$275.00

## SYNCHRONIZED COOLING THERMOSTAT/DEHUMIDISTAT/4 OUTLETS WITH LIGHT ACTIVATED PHOTOSENSOR Model CT-DH-4P



The CT-DH-4P is designed to be used with CO<sub>2</sub> equipment, dehumidifiers, and exhaust fans. While it is similar to the CT-DH-3 it has the added feature of offering independent outlets for temperature and humidity control. It is ideally suited for use with dehumidifiers. Temperature raise will activate the right hand outlets and deactivate the CO<sub>2</sub> outlet. Humidity rise will activate the dehumidifying outlet. Internal sensors will allow a 7° temperature comfort zone and a 7% humidity (differential) between the time the equipment goes "Off" and comes back "On" again. Plug the controller into a power surge protector to protect your valuable equipment, and then plug the surge protector into a 110 wall outlet. Set the temperature and humidity to the desired settings. The CO<sub>2</sub> outlet is normally in the "On" position and is able to activate CO<sub>2</sub> equipment as needed, but is defeated when exhaust function is active. The photosensor will defeat CO<sub>2</sub> enrichment during darkness hours.

Code#	Description	MSRP
702345	Model CT-DH-4P Independent Cooling Thermostat/Dehumidistat/4 Outlets	\$300.00

## INDEPENDENT COOLING & HEATING THERMOSTAT/4 OUTLETS

Model CT-HT-2



This controller features fully independent sensors for cooling and heating equipment. The cooling thermostat activates the left outlets of the controller and the heating thermostat activates the right outlets. If you require a tighter control of your temperature than the internal heating\cooling thermostats allow, alternate sensors are available with a 3° differential External Coil or Remote Bulb Thermostat.

Code#	Description	MSRP
702350	Independent Cooling & Heating Thermostat/4 Outlets	\$185.00

## 24 HOUR TIMER/COOLING THERMOSTAT

Model 24-CT-1



Housed in a corrosion-resistant black anodized chassis, this controllers offer a synchronous, motor driven time switch with 96 daily 15 minute increments and a built-in adjustable, independent thermostat. Plug timed equipment into the left side of the controller and plug temperature control equipment into the right side. The durable solid state offers a 7° differential (comfort zone). Optional 3° external coil or remote bulb thermostats are available. This unit operates equipment up to 15 Amps at 120 Volts.

Code#	Description	MSRP
702430	24 Hour Timer with Cooling/Thermostat	\$205.00

## MICROCLIMATE CONTROLLER SYSTEM/8 OUTLET

Model MCC-1



The Micro Climate Controller MCC-1 is designed to perform all the major atmospheric and timed functions required in an automated growth environment including temperature, humidity, carbon dioxide enrichment, lighting and irrigation control. The controller incorporates an external coil cooling thermostat, a dehumidifying humidistat, a 24-hour clock timer, a photo-sensor and a repeat cycle timer. Automatic override and defeat systems coordinate controls to consider all possible variables. The MCC-1 is enclosed in a black anodized, brush finish aluminum housing. An attractive screen-printed front panel with function indicator lights makes system monitoring and adjustment quick and easy. All connections are standard 3-prong grounded plugs and receptacles. No hard wiring is required for basic operations. Every aspect of the growing environment may be addressed by the Micro Climate Controller (MCC-1). Operates on 110VAC with 15 Amp switching capacity.

Code#	Description	MSRP
702355	Microclimate Controller System / 8 Outlet	\$770.00





# ENVIRONMENTAL CONTROLLERS

## ATMOSPHERIC CONTROLS SINGLE-FUNCTION STATS

Code#	Description	MSRP
702360	Day/Night Photo Switch	\$145.00

### DAY/NIGHT PHOTO SWITCH Model PS-1

The PS-1 Photostat is used to turn equipment "Off" during a photo "Off" period (night operation). When the lights are "Off" the control equipment will be powered down. In this mode the Photostat is ideal for use in CO<sub>2</sub> generation. The Photostat may also be used to turn equipment "Off" during a photo "On" period (Daylight Operation). Switch between day or night operation.

The PS-1 can also be used to operate indoor or supplementary lighting to correspond to natural outdoor daylight hours as seasons change. In DAY mode locate the PS-1 so it detects outdoor day length and functions your indoor lighting timer accordingly.



Code#	Description	MSRP
702365	Relative Humidity Controller - Humidify or Dehumidify	\$305.00

### RELATIVE HUMIDITY CONTROLLER - HUMIDIFY OR DEHUMIDIFY Model RHC

The RHC Relative Humidity Controller is our most recent development in total humidity control. It is switchable between humidify and dehumidify. The RHC has a built-in on board sensor which is accurate within  $\pm 5\%$  with a set differential of 5%, and temperature compensation. Perfect for plant zone environments, reptile habitats, or just about any application requiring accurate response and control.



Code#	Description	MSRP
702370	Relative Humidity Controller - with Remote Sensor	\$335.00

### RELATIVE HUMIDITY CONTROLLER - WITH REMOTE SENSOR Model RHC-R

The RHC-R is identical in function to the RHC, but offers a 20 foot remote sensor. Both units operate equipment up to 15 amps at 120 volt.



Code#	Description	MSRP
702377	Tempstat Thermostat 3° F - Heating & Cooling	\$155.00

### TEMPSTAT THERMOSTAT 3° F - HEATING & COOLING Model TEMP H/C-3

The Temp H/C Temperature Controller is switchable between heat and cool. Perfect for plant zone environments, reptile habitats or any other application requiring automatic switching of heating and cooling equipment. The black anodized aluminum enclosure is durable and attractive and will never corrode or discolor from hot, cold or humid environments. Available with 3° or 7° differential span or 7° Remote Bulb Thermostat. This control operates AC, exhaust fans, evaporative coolers, heaters or other temperature equipment by activating switches, motors, valves or pumps. Temperature range 40° to 110° F (5° to 45° C)



Code#	Description	MSRP
702375	Total Humidity Controller - Humidify & Dehumidify	\$145.00

### TOTAL HUMIDITY CONTROLLER - HUMIDIFY & DEHUMIDIFY Model THC-1

Control humidity automatically and accurately with Green Air Products Total Humidity Controller. The THC can be switched between humidify and dehumidify to remove unwanted atmospheric moisture accumulating within an enclosed area or to add needed moisture to the air by means of humidification.

In the dehumidifying mode high humidity conditions will activate fans or other dehumidifying apparatus until level drops approximately 7% in relative humidity. At this point dehumidifying equipment is disabled until humidity increases again 7%.

In the humidifying mode this control operates fogging or other humidifying equipment by activating switches, motors, valves or pumps. Humidifiers can be precisely controlled according to atmospheric humidity to create ideal conditions for any environment.





## TIMERS – CYCLE TIMERS

### CHRONOMETRIC SEQUENTIAL TIMER

Model CST-1

#### Code# Description

702379 Chronometric Sequential Timer

#### MSRP

\$230.00



The CST-1 has solved the age old problem of accurate short cycle timing. The only unit of it's kind designed specifically for the control of grow systems. Easy to set and operate. Solid state time counter with adjustable frequency and duration. The CST-1 function timer has many uses and only a few of them include: fogging or misting, spray stakes or drip system timing, air pumps, CO<sub>2</sub> equipment and intake/exhaust fan control.

### REPEAT CYCLE TIMER

Model CYCLESTAT 4P

#### Code# Description

702385 Repeat Cycle Timer

#### MSRP

\$170.00



The Cyclestat 4P is perfect for plant zone environments, reptile habitats or any other application requiring automatic short cycle switching. No programming required. Easy to set and operate. Microprocessor time counter with adjustable frequency and duration. The Cyclestat 4P timer has many uses. Only a few of them include: fogging or misting, spray stakes or drip system timing, air pumps, CO<sub>2</sub> equipment and intake or exhaust fan control. The Cyclestat may be set for interval and cycle of timed events. Interval is the time between "ON" cycles. The interval knob may be set from 5 minutes to 8 hours. Set this for desired time between functions. Cycle is the length of time that a specific function or condition must be maintained. Cycle may be set from 5 seconds to 30 minutes.

## TIMERS – LIGHTING TIMERS

These time switches are designed to operate high load lighting equipment. They consist of a premium quality precision synchronous clock motor and a high amperage switching circuit. These controllers are housed in black anodized brush finish aluminum enclosures which will not break, chip or corrode. Operates with a maximum combined outlet switching capacity of 40 amps. Plug or wire the power cord into a receptacle capable of handling the maximum total combined amperage draw of your equipment load. Plug lighting equipment into outlet receptacles located on each side of controller. Timer has 96 non-detachable 15 minute on/off trippers.

### 4 LIGHT TIMER - 120 VOLT

Model LT4-120

#### Code# Description

702390 4 Light Timer - 120 Volt

#### MSRP

\$310.00



The LT4-120 provides four 10 amp 120 volt outlet receptacles, each capable of powering up to 1000 watts of lighting equipment.

### 4 LIGHT TIMER - 240 VOLT

Model LT4-240

#### Code# Description

702395 4 Light Timer - 240 Volt

#### MSRP

\$365.00



The LT4-240 offers four 10 amp 240 volt outlets and will power lighting equipment up to 1000 watts each.

### 8 LIGHT TIMER - 240 VOLT

Model LT8-240

#### Code# Description

703400 8 Light Timer - 240 Volt

#### MSRP

\$410.00



The LT8-240 provides eight 5 amp 240 volt outlet receptacles, each capable of powering up to 1000 watts of lighting equipment.



## ENVIRONMENTAL CONTROLLERS

Code#	Description	MSRP
703405	24 Hour Timestat Controller	\$150.00

**24 HOUR TIMESTAT CONTROLLER**  
Model TSC-1

The TSC-1 timer is a 24 hour time switch that provides accurate timing with 96 non detachable trippers for On/Off functions adjustable in 15 Minute increments up to 48 cycles per day. Easy to set and operate. Constructed with durable, black anodized, aluminum housings that will never corrode or discolor for hot, cold or humid environments. This unit can be used independently or as part of a combination of control devices to coordinate numerous system functions. Precision synchronous clock motor provides 15 amp 110 volt control for pumps, fans lighting, solenoids, motors relays or virtually any equipment or appliance dependent upon multiple daily operations.



Code#	Description	MSRP
703410	High Amperage Relay	\$220.00

**HIGH AMPERAGE RELAY**  
Model HAR-1

This power relay uses high amperage capacity contacts to transfer power to large fans, pumps or lighting systems requiring high voltage or amperage service. Prevents premature failure of equipment, timers or other switching controls due to excessive current draw. Allows switching of 240 volt AC equipment with 115 volt AC controls. Prevents equipment overheating due to insufficient power supply. Use the HAR-1 to operate 115 or 240 volt high draw equipment. Provides 30 amp switching capacity with 115 volt AC trigger input from control device. Approved for indoor use only.



## CO<sub>2</sub> MONITORS & CONTROLLERS

Code#	Description	MSRP
702404	Bottle CO <sub>2</sub> Regulator & Solenoid	\$240.00

**BOTTLED CO<sub>2</sub> REGULATOR & SOLENOID**  
Model BCDE-1

Green Air Products bottled CO<sub>2</sub> emitter systems combine a forged brass flow gage regulator with a UL/CE/CSA certified emitter solenoid valve. These systems offer a flow range from 7-20 SCFH. The BCDE systems come with 10 feet of clear tubing with spring clamps, a grounded 6ft 120 volt power cord.



Code#	Description	MSRP
703423	CO <sub>2</sub> Set Point Controller	\$549.00

**CO<sub>2</sub> SET POINT CONTROLLER**  
Model SPC-1

This new easy to install and to operate CO<sub>2</sub> enrichment controller is factory calibrated and inspected for optimum performance. The SPC-1 is designed with a photo sensor to defeat CO<sub>2</sub> enrichment during dark periods and a large easy to read real-time LED display. The SPC-1 also is programmed with a preset differential (hysteresis) of 20 PPM and offers an elevation adjustment feature to fine tune performance. Quick Start Installation Instructions are available in English and Español. Like all of Green Air Products high quality controllers, the SPC-1 is constructed with durable components and a rust and scratch resistant, black anodized aluminum chassis to ensure that this controller will perform as expected for years to come. Operates on 120 Volt AC with 12 Amp switching capacity.



Code#	Description	MSRP
703415	CDDS-2 & CDM-6000 Sensor	\$905.00

**CDDS-2 & CDM-6000 SENSOR**  
Model CDMC-6

These Green Air Products systems are a breakthrough in CO<sub>2</sub> detection and control. The CDMC-6 system is designed to sample the air and learn the characteristic of your space, then make adjustments as necessary to ensure a constant level of CO<sub>2</sub>. The CDM-6000 monitor employs a passive infrared sensor which samples the air once every second and then sends the sample data to the CDDS-2 sequencer. The CDDS-2 then activates or deactivates your CO<sub>2</sub> enrichment or venting (exhaust) equipment to maintain desired CO<sub>2</sub> PPM. The CDDS-2 uses a sophisticated adaptive algorithm or "Overshoot Protection Logic" to learn the dynamics of the space being controlled. This allows the systems to avoid dramatic overshoots inherent to set point controllers or timed CO<sub>2</sub> enrichment. These learned parameters are stored in the memory, even when the 'POWER' is off, or until you reset the unit.

The CDMC-6 system offers a large LCD screen displaying the current CO<sub>2</sub> levels in PPM. Set your desired CO<sub>2</sub> level, 'Hysteresis' and 'Elevation' to maintain precise levels without guesswork.

The CDMC-6 system can be using for enriching or venting CO<sub>2</sub> and incorporates a photosensor to defeat CO<sub>2</sub> during dark periods (Night).





# ENVIRONMENTAL CONTROLLERS



## CDDS-2 & CDM-7001 SENSOR Model CDMC-7



Code#	Description	MSRP
703420	CDDS-2 & CDM-7001 Sensor	\$1,395.00

The CDMC-7 system functions like the CDMC-6 for CO<sub>2</sub> enrichment or ventilation, but offers the added features of a portable monitor in the CDM-7001 with dual beam absorption infrared technology and a LCD display that shows CO<sub>2</sub> PPM and real time temperature. The CDM-7001 monitor is also equipped with a computer interface to download CO<sub>2</sub> history. Recorded data can be graphed and printed using a Windows based VG graphing software (not included).

## 12 VOLT AC/DC ADAPTOR



Replacement AC/DC adaptor for CO<sub>2</sub> generators.

Code#	Description	MSRP
703476	12 Volt AC/DC Adaptor	\$20.00

## REPLACEMENT CO<sub>2</sub> HOSE



For use with all Green Air Generators

Code#	Description	MSRP
702435	Replacement CO <sub>2</sub> Hose	\$34.95

## CO<sub>2</sub> GENERATORS WITH LP RATED HOSES

Carbon dioxide generators operate by burning carbonaceous fuels such as propane or natural gas. The burners used in Green Air Products CO<sub>2</sub> generators are specially designed to maximize the production of CO<sub>2</sub> and minimize heat as a by-product. Green Air Products generators provide CO<sub>2</sub> far more economically than any other means of enrichment. A constant burning pilot is used to ignite the gas when the generator is turned on. A thermocouple is used to monitor the pilot flame. If the pilot flame is lost, a safety valve will close so that unburned fuel will not be released into the enclosure. CO<sub>2</sub> Generator operations may be automatically functioned according to actual ambient values when installed in conjunction with the CDMC. The generators may allow be controlled with timers such as the Cyclestat 4P. This control device continually samples the level of carbon dioxide in the growing area and functions the generator whenever CO<sub>2</sub> levels do not meet your predetermined values. Generators are easily installed, dependable and efficient. Transformer included. Operates on 110 volt AC.

### LIQUID PROPANE MODELS



Code#	Description	MSRP
703430	CD-3LP - CO <sub>2</sub> Generator 3 cu. ft. per hour Propane	\$460.00
703435	CD-6LP - CO <sub>2</sub> Generator 6 cu. ft. per hour Propane	\$540.00
703440	CD-12LP - CO <sub>2</sub> Generator 12 cu. ft. per hour Propane	\$615.00
703445	CD-18LP - CO <sub>2</sub> Generator 18 cu. ft. per hour Propane	\$680.00
703450	CD-36LP - CO <sub>2</sub> Generator 36 cu. ft. per hour Propane	\$760.00

### NATURAL GAS MODELS



Code#	Description	MSRP
703455	CD-3NG - CO <sub>2</sub> Generator 3 cu.ft. per hour Natural Gas	\$490.00
703460	CD-6NG - CO <sub>2</sub> Generator 6 cu.ft per hour Natural Gas	\$555.00
703465	CD-12NG - CO <sub>2</sub> Generator 12 cu.ft. per hour Natural Gas	\$630.00
703470	CD-18NG - CO <sub>2</sub> Generator 18 cu.ft. per hour Natural Gas	\$710.00
703475	CD-36NG - CO <sub>2</sub> Generator 36 cu.ft. per hour Natural Gas	\$780.00



# ENVIRONMENTAL CONTROLLERS

## PLUG N GROW PRODUCTS

Code#	Description	MSRP
703500	iGS-011 Cycle Timer with Photocell	\$89.00

### CYCLE TIMER WITH PHOTOCELL Model iGS-011

The iGS-011 cycle controller represents an easy solution to periodic control day and night or just day only. The integrated photocell can differentiate day and night.

- ON time from 30 seconds to 60 minutes
- OFF time from 1 minute to 12 hrs
- Maximum load : 120 volt AC, 15 Amp, 1 HP
- One year warranty



Code#	Description	MSRP
703502	iGS-012 High Temperature Watchdog	\$109.00

**NEW!**

### HIGH TEMPERATURE WATCHDOG Model iGS-012

Plug iGS-012 in the 110-120 volt wall socket chosen to supply your lighting equipment. Plug lighting equipment in 110-120 volt output of the iGS-012 (maximum charge of 15 Amps). Keep temperature sensor far of any source of heat. Temperature sensor should be located above the floor level and near top of plant canopy.

- Can control lighting equipment plugged in a iLS4-120, iLS4-120S or iLS4-240 by connecting sense cord of iLS4 to iGS-012. The iLS4-120, iLS4-120S and iLS4-240 can be connected in a row to control many pieces of lighting equipment.
- One year warranty.



Code#	Description	MSRP
703510	iGS-021 Day & Night Temperature Control	\$99.00

### DAY & NIGHT TEMPERATURE CONTROL Model iGS-021

The iGS-021 temperature controller will operate your heating or cooling equipment in accordance to user day and night set points. Does not have a display. One year warranty.



Code#	Description	MSRP
703550	iGS-070 Manual Variable Speed Control	\$69.00

### PLUG-IN MANUAL VARIABLE SPEED CONTROL Model iGS-070

This module enables the user to adjust fan speed manually. Works only with magnetically driven fans. Connect up to 750 watts to a single unit. One year warranty.



Code#	Description	MSRP
703505	iGS-010 Day & Night Cycle Timer with Photocell & Display	\$169.00

### PRECISION DAY & NIGHT CYCLE TIMER WITH PHOTOCELL & DISPLAY Model iGS-010

The iGS-010 cycle controller represents an easy and flexible solution to periodic control of day and night. The integrated photocell can differentiate day and night and will initiate the proper day or night periodic control.

- ON time from 5 seconds to 60 min
- OFF time from 1 minute to 12 hours
- Maximum load : 120 volt AC, 15 Amp, 1 HP
- One year warranty



# ENVIRONMENTAL CONTROLLERS



## DAY & NIGHT TEMPERATURE CONTROL WITH DISPLAY

Model iGS-020



The iGS-020 temperature controller will operate your heating or cooling equipment in accordance to user day and night set points. The ambient temperature is displayed on the luminous bar graph. The precision temperature sensor (1° C) can be calibrated and the differential of operation is adjustable. This controller is also available with a remote (10 feet) sensor (iGS-020R).

- ±1°C precision temperature sensor
- Maximum load: 120 volt AC, 15 Amp, 1 HP
- 0° to 40° C control range
- One year warranty

Code#	Description	MSRP
703515	iGS-020 Day & Night Temperature Control with Display	\$169.00
703520	iGS-020 with Remote	\$179.00

## DAY & NIGHT RELATIVE HUMIDITY CONTROL WITH DISPLAY

Model iGS-030 & iGS-030R



The iGS-030 relative humidity controller will operate your humidifying or dehumidifying equipment in accordance to user day and night set points. The ambient relative humidity is displayed on the luminous bar graph. The precision RH sensor (3%) can be calibrated and the differential of operation is adjustable. This controller is also available with a remote (10 feet) sensor (iGS-030R).

- 3% precision RH sensor
- Maximum load: 120 volt AC, 15 Amp, 1 HP
- 0-100% RH control range
- One year warranty

Code#	Description	MSRP
703525	iGS-030 Day & Night Humidity Control with Display	\$209.00
703530	iGS-030 with Remote	\$219.00

## DAY & NIGHT COOLING & DEHUMIDIFYING CONTROL WITH DISPLAY

Model iGS-040 & iGS-040R



One year warranty. The iGS040 Cooling and dehumidifying controller will operate your inlet and/or exhaust fans (or any other cooling and/or dehumidifying equipment) in accordance to user temperature and relative humidity day and night set points. Temperature and relative humidity values can be viewed in real time on the luminous bar graph. The differential is factory preset to ± 2.5% for RH and ± 1° C for temperature. Of course these values can be increased by the user. This controller also offers the user a low temperature limit which when set will interrupt the equipment in the case of excessive cooling. This controller is also available in remote (10 feet) sensor format (iGS040R).

Code#	Description	MSRP
703535	iGS-040 Day & Night Cooling & Humidifying Control with Display	\$249.00
703540	iGS-040 with Remote	\$259.00

## DAY & NIGHT TEMPERATURE & RELATIVE HUMIDITY CONTROL

Model iGS-110



One year warranty. The iGS-110 temperature and relative humidity controller is essential to good climate control in a grow room or greenhouse. Good climate control is the cornerstone of a fast growing garden and is the first line of defense for pest and disease prevention. The display shows the ambient temperature (Celsius and Fahrenheit) and relative humidity values. The internal sensors benefit from a fast sampling rate. The control unit can be positioned up to 6 feet from the output box (a cable up to 50 feet can be used). Multiple operation modes are available and the differential of operation is adjustable. This unit is 120 volts and uses 12 watts of power.

Maximum load both outputs: 15 Amp 120 volt AC

Auto differential adjustment: 3 to 10%

Accuracy of RH sensor: ±3%

Temperature sensor and control range: -20° C to +50° C (-4°F to +122 ° F)

Auto. Differential adjustment: 1° C to 10° C (-1.8° F to +18° F)

Calibration of temperature sensor: factory calibrated

RH Sensor and control range: 0%-100%

Annual drift: <1%

Calibration of RH sensor: factory calibrated

Accuracy of temperature sensor: ±1° C (±2° F)

Resolution of temperature sensor: 0.5° C (1° F)

Code#	Description	MSRP
703560	iGS-110 Day & Night Temperature & Relative Humidity Control	\$339.00

## CO<sub>2</sub> CONTROL WITH HIGH TEMPERATURE SHUT OFF FUNCTION

Model iGS-061



The iGS-061 will perform CO<sub>2</sub> enrichment during the day only (when light is sensed by the photocell). The enrichment starts when the CO<sub>2</sub> concentration falls below the set point minus the differential. (i.e. Set point = 1200 ppm Differential = 150, CO<sub>2</sub> enrichment starts below 1050 ppm and stops beyond 1350 ppm). The differential modifies itself until the controller senses no more overshooting or undershooting of user set point. Fixed differential values can also be set for more specific needs. As a safety feature, the high temperature shut off function will inhibit operation while temperature is over the user setting. This interruption is maintained until temperature falls below the user high temp setting. To inhibit this feature, simply set the limit to its highest value. The controller can also be set to vent (extract) CO<sub>2</sub>. In this case, the high temp shut off feature becomes a low temp shut off limit to prevent excessive cooling conditions. One year warranty.

Code#	Description	MSRP
703545	iGS-061 CO <sub>2</sub> Control with High Temperature Shut Off	\$579.00





# ENVIRONMENTAL CONTROLLERS

Code#	Description	MSRP
703555	iGS-100 CO <sub>2</sub> Control with Auxiliary Shut Off Output	\$699.00

## CO<sub>2</sub> CONTROL WITH AUXILIARY SHUT OFF OUTPUT Model iGS-100

The iGS-100 CO<sub>2</sub> controller is an essential control tool to efficiently and economically use CO<sub>2</sub> enrichment for higher growth rates or to fulfill minimum ventilation needs day and night. The display shows the ambient CO<sub>2</sub> concentration within  $\pm 75$  ppm at all times. The internal CO<sub>2</sub> infrared sensor reads values from 0 to 5000 ppm. The air sampling is optimized by means of an integrated fan. The control unit can be positioned up to 6 feet from the output box (a cable up to 50 feet can be used). The controller will automatically adjust its operating differential when the CO<sub>2</sub> concentration overshoots or undershoots the desired set point. Two set points are used by the controller : day and night set points. This unit is 120 volts and uses 12 watts of power.

Maximum load both outputs: 15 A 120 volt AC

Sensor and Control range : 0-5000 ppm

Annual drift of the CO<sub>2</sub> sensor:  $\pm 75$  ppm

One year warranty.

Battery-backed microprocessor control

Automatic differential compensation:  $\pm 20$  ppm

Calibration of the CO<sub>2</sub> sensor: 1 year



Code#	Description	MSRP
703565	iGS-220 Day & Night CO <sub>2</sub> , RH & Temperature Smart Control	\$939.00

## DAY & NIGHT CO<sub>2</sub>, RELATIVE HUMIDITY & TEMPERATURE SMART CONTROL - Model iGS-220

The iGS-220 CO<sub>2</sub> relative humidity and temperature controller is the simplest and most complete solution to integrated climate management and CO<sub>2</sub> enrichment or venting. The resulting climate can increase yields and quality of harvest while insuring CO<sub>2</sub> and energy savings. The electronic module displays the actual values of the CO<sub>2</sub>, relative humidity and temperature sensors. The controller includes an internal fan to speed up the air sampling process thus yielding better climate control. The control unit can be positioned up to 6 feet away from the output box (a cable up to 50 feet can be used). The control unit logs the last 24 hours minimum, maximum and average CO<sub>2</sub> concentration, relative humidity and temperature values. Multiple operation modes are available and the differential of operation is adjustable.

Battery Backed microprocessor (36 hrs battery)

Max. load both outputs: 15 A 120 volt AC

Auto differential adjustment: 50 to 800 ppm

Annual drift:  $\pm 1^\circ\text{C}$  ( $2^\circ\text{F}$ )

Accuracy of the temperature Sensor:  $0.5^\circ\text{C}$  ( $1^\circ\text{F}$ )

RH sensor and control range: 0 - 100% RH

Accuracy of the RH sensor:  $\pm 3\%$

Auto differential adjustment:  $1^\circ\text{C}$  to  $10^\circ\text{C}$  ( $-1.8^\circ\text{F}$  to  $+18^\circ\text{F}$ )

Power supply: 120 volt AC

CO<sub>2</sub> Sensor and Control range: 0 - 5000 ppm

Accuracy of the CO<sub>2</sub> Sensor:  $\pm 75$  ppm

Temperature Sensor and control range :  $-20^\circ\text{C}$  to  $+50^\circ\text{C}$  ( $-40^\circ\text{F}$  to  $+122^\circ\text{F}$ )

Calibration of the temperature Sensor: Factory calibrated

Auto differential adjustment: 3 to 10%

Calibration of the RH sensor: Factory calibrated

Consumption: 00 mA 12 watt

Annual drift:  $\pm 20$  ppm

Calibration of the CO<sub>2</sub> Sensor: 1 yr

Annual drift:  $< 1\%$

Warranty: 1 year



Code#	Description	MSRP
703570	iLS4-120 Light Load Switch with Internal 0-20 Minute On Delay 120 volt Outputs	\$189.00

## LIGHTING LOAD SWITCH BOX WITH INTERNAL 0-20 MINUTE ON DELAY 120 VOLT OUPUTS Model iLS4-120

This switching module will switch up to four 600 watt lights using a low power 120 volt AC trigger cord. An internal On-delay timer can be set to prevent hot bulb startups or set to sequentially turn on groups of up to four lights. This unit is powered by 120 volt AC and delivers the same to the connected equipment. One year warranty.



Code#	Description	MSRP
703575	iLS4-120S Light Load Switch With Internal 0-20 Minute On Delay 240 volt Supply, 120 volt Output	\$199.00

## LIGHTING LOAD SWITCH BOX WITH INTERNAL 0-20 MINUTE ON DELAY 240 VOLT SUPPLY, 120 VOLT OUTPUT Model iLS4-120S

This switching module will switch up to four 1000 watt lights using a low power 120 volt AC trigger cord. An internal On-delay timer can be set to prevent hot bulb startups or set to sequentially turn on groups of up to four lights. This model is powered by a 240 volt AC circuit but delivers 120 volt AC to lighting ballasts (4 wires necessary from breaker assembly). One year warranty.



Code#	Description	MSRP
703580	iLS4-240 Light Load Switch with Internal 0-20 Minute On Delay 240 Volt Outputs	\$219.00

## LIGHTING LOAD SWITCH BOX WITH INTERNAL 0-20 MINUTE ON DELAY 240 VOLT OUTPUTS Model iLS4-240

This switching module will switch up to four 1000 watt lights using a low power 120 volt AC trigger cord. An internal On-delay timer can be set to prevent hot bulb startups or set to sequentially turn on groups of up to four lights. This model supplies 240 volt AC to your equipment. One year warranty.



# ENVIRONMENTAL CONTROLLERS



## PLUG-IN 12 AMPS ON-SWITCHED RELAY WITH LOW CURRENT 120 VOLT TRIGGER CORD Model iLS120-ON



This 120 volt AC Module can switch on 120 volt AC equipment while another is being activated. Switch on air-venting fans when light are on. Easy to set-up. One year warranty.

Code#	Description	MSRP
703585	iLS120-ON Plug-in 12 amps on-switched relay with low current 120 volt trigger cord	\$69.00

## PLUG-IN 12 AMPS OFF-SWITCHED RELAY WITH LOW CURRENT 120 VOLT TRIGGER CORD Model iLS120-OFF



This 120 volt AC Module can switch off 120 volt AC equipment while another is being activated. Switch off fans, while CO<sub>2</sub> or sulfur vaporizing is in progress or dehumidifier when fans are on. Easy to set-up. One year warranty.

Code#	Description	MSRP
703590	iLS120-OFF Plug-in 12 amps on-switched relay with low current 120 volt trigger cord	\$69.00

## AUTOMATIC DIALER & MOVEMENT DETECTOR ALARM Model iMS100



The iMS100 is a security system which will detect intruders and fires in your home, office, business or wherever it is set up. It is designed to give you an early warning by calling up to 6 pre-stored phones/pager with your own voice message. It is simple to set up and use, and will monitor your home or business without any monthly charge. One year warranty.

Code#	Description	MSRP
703600	iMS100 Automatic dialer & movement detector alarm	\$239.00

## SOLATEL PRODUCTS

### PLANT PRO™ ENVIRONMENTAL CONTROLLER



Product No.  
703612

Code#	Description	MSRP
703605	HGC-2 Plant Pro™ Controller without CO <sub>2</sub>	\$622.95
703610	HGC-3 Plant Pro™ Controller with CO <sub>2</sub>	\$995.00
703612	EXT-2 Extension Cable Set (4ea - 15 ft)	\$35.00

Precision electronic control for all environmental variables. Outlets for lighting, irrigation, ventilation, and CO<sub>2</sub>. High accuracy sensors for temperature, humidity, and flood. Optional Photocell (light) and CO<sub>2</sub> sensors available. Sensors have flexible 10 foot cables (25 foot total with optional extensions). This allows the Plant Pro™ to be located for easy monitoring and adjustment, even outside the grow room, if desired. The Plant Pro™ unique simplified operation allows for easy, quick setup using only two control knobs and a large digital display. One knob to select a setting, a display to show the setting, and a second knob to change the setting. Measurements from sensors can also be displayed. Easy to use digital clock provides exact timing. CO<sub>2</sub> control includes timed or optional CO<sub>2</sub> sensor. Adjustable fan CO<sub>2</sub> delay allows extra time for CO<sub>2</sub> absorption by plants before ventilation fan comes on.

### PWX-1 & PWX-D20 POWER EXPANDERS



**NEW!**

Code#	Description	MSRP
703615	PWX-1 Power Expander - 120 Volt 15 amp	\$95.00
703622	PWX-D20 Power Expander (sequential)	\$149.95

Power Expanders allow you to turn on more high powered loads from a timer or environmental controller. Usually the electrical outlet for your timer or controller can only service a single 1000 watt fixture without tripping the circuit breaker. By utilizing other outlets (on separate circuit breakers) more fixtures can be added and still be controlled by your timer. These Power Expanders have ready to go outlets (120 volt or 240 volt depending on model), a 10 foot trigger cord. The PWX-D20 (not shown) is similar to the PWX-1 except it delays 20 seconds before turning on. Inserting a delay between turning on heavy electrical loads helps avoid circuit breaker popping and other electrical problems.



## ENVIRONMENTAL CONTROLLERS

Code#	Description	MSRP
703620	PWX-240 Power Expander - 240 Volt 30 amp	\$194.95
703621	PWX-240S Power Expander (20 second delay)	\$299.95

The PWX-240 Power Expander is similar to the PWX-1 except they control 240 volt devices. The power cord connects to a 240 volt 30 amp service. The trigger cord has a 120 volt plug. This lets a 120 volt controller operate 240 volt fixtures. There are six 240 volt outlets allowing control of up to six 1000 watt fixtures. The PWX-240 turns all outlets on at once. The PWX240S (not shown) is similar to the PWX240 except that it sequences the outlet pairs on. The first outlet pair turns on immediately and the final 2 outlet pairs turn on 20 seconds apart. This helps avoid circuit breakers popping.

### PWX-240 & PWX-240S POWER EXPANDERS

**NEW!**



Code#	Description	MSRP
703625	LP120S Lamp Pro Timer (120 Volt 15 Amp)	\$279.95
703630	LP240S Lamp Pro Timer (240 Volt 30 Amp)	\$299.95

These easy to use timers have a single select knob that clicks to any of 16 time settings. Settings include an accelerated 18 hour day cycle running ON 6 hours / OFF 12 hours. Thirteen normal 24 hour day settings cover ON 8 / OFF 16 to ON 20 / OFF 4 in one hour increments. Continuously ON and OFF settings are also included. The Lamp Pro sequences two outlets on, 20 seconds later the next two, and 20 seconds later the final two. This reduces electrical problems. Turn off has a 5 second delay. The LP-120S (120 volt 15 amp) uses standard 120 volt type outlets and power cord plug. The LP-240S (240 volt 30 amp) has 240 volt outlets and an 8 foot power cord with unterminated wires. It can control up to six 1000 watt fixtures.

### LP-120S AND LP-240S LAMP PRO TIMERS



Product No.  
703625

Product No.  
703630

Code#	Description	MSRP
703635	Gas Pro 6 Burner NG CO <sub>2</sub> Generator	\$831.00
703640	Gas Pro 6 Burner LP CO <sub>2</sub> Generator	\$831.00
703645	Gas Pro 12 Burner NG CO <sub>2</sub> Generator	\$998.95
703650	Gas Pro 12 Burner LP CO <sub>2</sub> Generator	\$998.95
703655	Gas Pro 6 NG Generator With CO <sub>2</sub> 400 Controller	\$1,187.50
703660	Gas Pro 6 LP Generator With CO <sub>2</sub> 400 Controller	\$1,187.50
703665	Gas Pro 12 NG Generator With CO <sub>2</sub> 400 Controller	\$1,363.00
703670	Gas Pro 12 LP Generator With CO <sub>2</sub> 400 Controller	\$1,363.00

gas start. When the pilot is lit, spark stops and main gas turns on and is lit by pilot. When the Gas Pro turns off, all gas turns off. Spark is better than standing/continuous pilot - they must be manually lit, burn all the time, and waste gas. Spark is faster and more reliable than a glow plug - no time needed for glow plug to heat up, spark ignites immediately. Both Propane and Natural Gas models available. Each have two sizes - a six burner and a twelve burner. The Propane model includes a regulator for connection to a propane tank. Gas hose (20 ft.) included with all models. Strong 18 gauge steel enclosure - powder coated for heat and rust resistance. Heat exchanger allows forced air cooling if desired. Plug the 120 volt power supply (included) into a controller or timer. Alternatively, the Gas Pro allows easy connection of a CO<sub>2</sub> 400 controller. Just plug CO<sub>2</sub> 400's 10 ft. cable into the connector on the side of Gas Pro. Extension cable available. No separate power supply needed - it draws power from the Gas Pro. Includes easy to use display and controls to view and adjust ppm levels.

**NEW!**

### GAS PRO CO<sub>2</sub> GENERATOR & CO<sub>2</sub> 400 CONTROLLER

CO<sub>2</sub> is needed by plants for proper growth. CO<sub>2</sub> can be added by burning propane or natural gas - cheaper and easier to obtain than bottled CO<sub>2</sub>. The Gas Pro uses faster, more reliable, more efficient, electronic spark ignition. When the Gas Pro is turned on, spark and pilot



## HARVEST-MASTER® PRODUCTS

Harvest-Master® products are automated hydroponic grow room climate controllers. Harvest-Master® controller devices continuously control your crop condition and growth time. The controllers come ready to operate with factory preset settings. No Hassles! Scientists have researched and developed the optimum settings so that you obtain a "Great Harvest" for a wide variety of herbs, flowers and fruiting crops. Just set the grow cycle you want: Vegetative, Fast Flowering or Full Flowering for a perfect optimum growth climate day and night. Settings can be changed as required, but we advise that factory settings be used initially.

Self Learning Capability & Automatic Room Calibration

- As soon as Harvest-Master® is switched on, it begins learning how your room performs and reacts. Hour by hour, learning about temperature and humidity changes continuously, all day every day.
- This information enables Harvest-Master® to understand, calculate and predict how your devices will best balance temp, humidity and CO<sub>2</sub> for the most gentle organic growing conditions.
- Harvest-Master® always makes the optimum decisions to ensure healthy vigorous crops.



# ENVIRONMENTAL CONTROLLERS



## HARVEST-MASTER® CLIMATE CONTROLLERS

**NEW!**



Controls night and day length, temperature and humidity control, plus control up to 8 devices (or 7 and a cycle timer), for a balanced climate. All models come as a complete kit. The kit includes: controller, sensors, remote relay switches. Sensors are high accuracy types, for temperature, humidity and CO<sub>2</sub>. 3 remote relay switches are included for lights and heaters to put on different electrical circuits.

The "Pro" model is the same as the Climate model plus a CO<sub>2</sub> sensor and a 4th relay switch.

Code#	Description	MSRP
703300	Harvest-Master® Climate Controller	\$899.00
703305	Harvest-Master® Climate Pro Controller	\$1,599.00

## HARVEST-MASTER® CLIMATE PRO PLUS CONTROLLER

**NEW!**



Controls night and day length, temperature and humidity control, plus control up to 8 devices (or 7 and a cycle timer), for a balanced climate. All models come as a complete kit. The kit includes: controller, sensors, remote relay switches. Sensors are high accuracy types, for temperature, humidity and CO<sub>2</sub>. 3 remote relay switches are included for lights and heaters to put on different electrical circuits.

The "Pro Plus" model is the same as the Climate Plus model plus 8 additional inputs & outputs, to control advanced functions including automation or alarms which can drive the optional "Text Message" (product no. 703335) option.

Code#	Description	MSRP
703310	Harvest-Master® Climate Pro <u>Plus</u> Controller	\$2,099.00

## HARVEST-MASTER® CO<sub>2</sub> EASI UNITS

**NEW!**



CO<sub>2</sub> EASI is intelligent control of CO<sub>2</sub> and at the same time, an Intelligent Temperature controller when the COOL

KIT is attached for additional automatic control of cooling units and or fans.

As soon as CO<sub>2</sub> EASI is switched ON, it learns how CO<sub>2</sub> enrichment works in your room, including whether you use bottle or burner. Continuous learning and adjustment all day, every day. CO<sub>2</sub> EASI will understand, calculate and predict enrichment operations for optimum growth.

**Consumption:** Automatic calculation and display of CO<sub>2</sub> consumption rate, with predicted bottle life remaining.

**Efficiency Monitoring:** Shows percentage of optimum CO<sub>2</sub> enrichment time achieved. Automatic and continuous evaluation of cooling and exhaust systems efficiency. Identifies where improvements can be made for more growth, increased yield, reduced CO<sub>2</sub> use and lower power costs.

Code#	Description	MSRP
703320	Harvest-Master® CO <sub>2</sub> EASI Unit	\$649.00
703325	Harvest-Master® CO <sub>2</sub> EASI Kool Kit	\$109.90
703330	Harvest-Master® CO <sub>2</sub> EASI Dual Kool Kit	\$189.90

## HARVEST-MASTER® RELAYS

**NEW!**

Product No.  
703350



Product No.  
703355



Relay switches for you to plug and run: Lights, Fans, Heater or any other timed device.

Each relay is rated to switch 15-amps. 120 Volt AC or 240 Volt AC:

- USA. 240v, 2-pole relay switches available.
- Heavy Duty 3 phase 32-amp per phase type available.

Relays can be daisy chained with "Y" connectors to permit up to 6 relay switches to be switched ON by a single Harvest-Master® output signal (for up to 6 light arrays for example).

NOTE: A maximum of 7 relay switches per controller output.

Code#	Description	MSRP
703350	Harvest-Master® Relay - 120 volt	\$79.90
703355	Harvest-Master® Relay - 240 volt	\$159.00

## HARVEST-MASTER® TEXT ME MODEM

**NEW!**



The modem gives you instant text message updates, direct to your phone. Send 'status', to get an update from your Harvest-Master® controller, from anywhere! Turn the extra 8 outputs ON or OFF by text message. Get text messages for an alarm! Overheating, low water/fluid levels, or INTRUDERS! (door/window switches, motion detectors).

Code#	Description	MSRP
703335	Harvest-Master® Text Me Modem For Pro Plus Only	\$867.00

## HARVEST-MASTER® CO<sub>2</sub> UPGRADE

**NEW!**



CO<sub>2</sub> sensor upgrades the controller to monitoring and accurate (to 100ppm) dispensing of CO<sub>2</sub>. Harvest-Master® knows when CO<sub>2</sub> is operating and changes automatically to suit the high CO<sub>2</sub> environment (higher humidity, no fans etc). Continuously relearns the "delivery time" required to get perfect ppm levels without overruns! Harvest-Master® Automatically disables CO<sub>2</sub> operations if the system runs out of CO<sub>2</sub> (allows fans to be used and holds humidity to lower levels)!

Code#	Description	MSRP
703340	Harvest-Master® CO <sub>2</sub> Upgrade for Climate to a Pro	\$649.00