2023 Catalog

TRIDENT™
SINGLE ZONE CONTROLLER

NOVA 1626ET
Six Zone Misting Controller

SUPER NOVA 12B
Twelve Zone Misting Controller

Electronic Leaf™

Hi-Hose™

fertil dispenser™

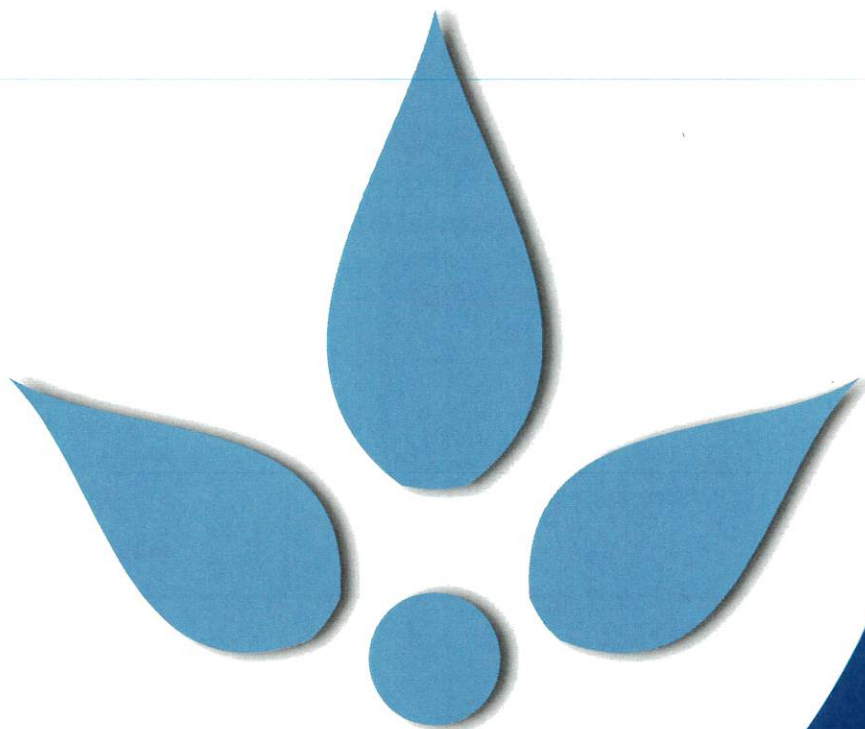**CapMat™ II**

Redi-Heat™

Rhizopon®

Pestick™

Pestrap™

Serving The Horticulture Industry With Innovtive Products Since 1976!

Phytotronics, inc.®

Visit Our Website to Find Your Favorite Distributor:

www.phytotronics.com

Mist Controllers – "At A Glance™" Technology

Electronic Leaf

Made in the U.S.A.

- Simple and effective way to mist cuttings
- Works on the principle of evaporation. The weight of mist on the metal screen controls solenoid operation
- 24 volt output, 40 VA, 120 volt in
- 24-volt plug-in transformer with 20' of cord included
- 20' of 18/2 wire for solenoid valve connection also included
- Housing made with durable stainless steel
- Green LED light indicates power is provided to the electric leaf
- Blue LED light indicates power is supplied to the solenoid valve
- 2 year warranty

1400   Electronic Leaf

TRIDENT - T3A - 1-Zone Controller

Made in the U.S.A.

- Sturdy non-metallic enclosure, UV protected, resists moisture and chemicals
- Toggle switch to select ON/OFF time mode, second/minute, minute/minute, and minute/hour
- 2-to 60-second or minute ON time, and 2-to 180-minute or hour OFF time
- Extra bright LEDs show ON/OFF times when programing and when controller is in use
- 24 hour digital clock, with 8 programmable events to turn on/off controller
- 2 year warranty
- Includes 24 VAC plug-in Transformer and 20' cord

1095   Trident T3A - 1 Zone Controller

NOVA - 1626ET - 6-Zone Controller

Made in the U.S.A.

- Sturdy non-metallic enclosure, UV protected, resists moisture & chemicals
- Seconds on, minutes off settings
- 1x, 2x, 3x time extender toggle switch
- One connection for the common wire
- 24 hour digital clock, with 8 programmable events to turn controller off
- Includes 24VAC plug-in transformer
- 2 year warranty

1405   Nova 1626ET - 6 Zone Controller

SUPER NOVA - 12B
12-Zone Controller

Made in the U.S.A.

- Sturdy non-metallic enclosure, UV protected, resists moisture & chemicals
- Seconds on, minutes off settings
- 1x, 2x, 3x time extender toggle switch
- One connection for the common wire
- 24 hour digital clock, with 8 programmable events to turn controller off
- Includes 24VAC plug-in transformer
- 2 year warranty

1420   Super Nova 12B - 12 Zone Controller

Please Note: We no longer repair controllers 1626A, B, C or 120Volt 1626D, Gemini 4-Hour, or Gemini 2

Phytotronics, inc.   **(314) 770-0717**

Misting & Water Controllers

Mini-Mist

- 2 stations
- Timed operations with internal digital clock
- Misting and irrigation
- Each station can be individually set for operation times, watering days, and repeat functions
- Night detection sensor
- 24VAC input/output, supplied with plug in 24V transformer and power cord
- Weatherproof lockable non-metallic case with clear cover
- 1 yr warranty

5402 Mini-Mist

Made in the U.S.A.

Water Max

- 12 independent stations
- Timed operations with internal digital clock
- Misting and irrigation
- Each station can be individually set for operation times, watering days, and repeat functions
- Night detection sensor
- 24VAC input/output, supplied with plug in 24V transformer and power cord
- Weatherproof lockable non-metallic case with clear cover
- 1 yr warranty

5400   Water Max

Made in the U.S.A.

Water Plus VPD

- 12 independent stations
- Continuous Vapor Pressure Deficit adjustments
- You set the on time, seconds or minutes
- The controller determines the off time based on current conditions and VPD value you set
- 24V transformer and power cord included, 24VAC output
- Night watering disable functions
- Includes all of the other features of the Water Max
- 1 yr warranty

5404   Water Plus VPD

Made in the U.S.A.

Water Pro VPD

- 12 zones, expandable to 24 zones with expansion unit
- Includes 1 VPD sensor and able to except a 2nd VPD sensor
- Can be connected to a remote PC and used with the optional Growlink software for sensor data logging and remote control operation
- Crop aging adjustments
- End of schedule alarm
- Night watering disable functions
- 24V transformer and power cord included, 24VAC output
- 1 yr warranty

5406   Water Pro VPD
5412   VPD Sensor

Made in the U.S.A.

VPD = Vapor Pressure Deficit

VPD = Vapor Pressure Deficit. VPD is the difference between the amount of moisture in the air and how much moisture the air can hold. The Water Plus VPD and Water Pro VPD controllers use the VPD to automatically adjust the length of the mist or irrigation "off" cycle.

5412 VPD Sensor

VPD Sensor

Wireless Devices for Horticulture

AT101 Remote Monitoring Hub

Made in the U.S.A.

Product Overview and Operation:
- The AT101 provides network access to any AT200 sensors within range.
- An internal web server will display current sensor data on any browser and also send email/text alerts when individual sensor's data exceeds user-determined setpoints.
- You can also transmit sensor data via XML strings to a cloud server. Charting software can then access the cloud data and present this information in a graphical manner.
- At least one AT101 is required per monitoring system.

In the box
- AT101 Hub with detachable antenna
- 100-240VAC Wall Power Adapter with 6' cable
- 14' Ethernet cable

1061   Galaxy Monitoring Hub

Electrical:
Input Voltage: 9VDC
Input Current: 1.2A

Enclosure:
Width: 4.125"
Height: 1.25" (add 6" with antenna installed)
Depth: 2.375"

Wall Adapter (provided):
Input Voltage: 100 - 240VAC
Input Frequency: 50 - 60Hz
Input Current: 0.31A Max

Network:
10/100baseT RJ45 to Router or Switch
433MHz Receiver with range up to 300'
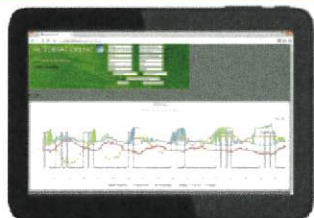Simple network setup via DHCP

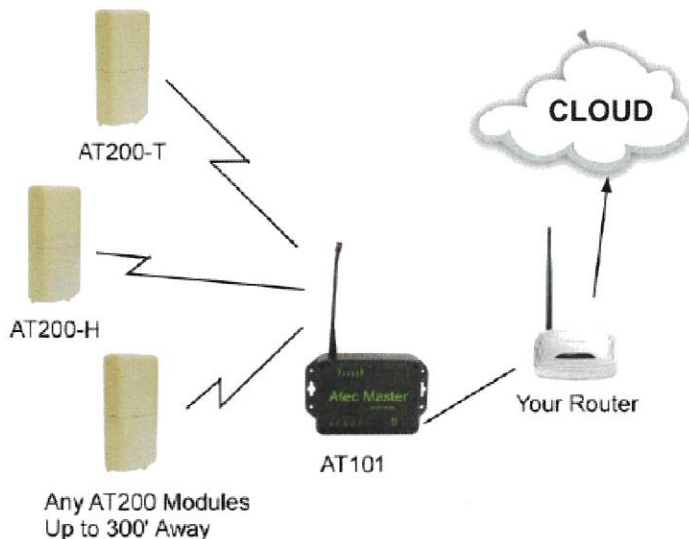## AT300 Starter Kit

AT300 Starter Kit
Included are:
- AT101 Hub
- AT200-T Temperature Sensor
- AT200-RT Remote Sensor Probe

Everything to begin logging data.

1060   Quick Start Kick

Your Tablet, Laptop or Phone

How It Works

Step 1: Plug AT101 into your router or switch
Step 2: Install batteries in AT101
Step 3: Log into Atec's webpage
Step 4: Enter AT200 serial numbers and monitor data

AT200-T

AT200-H

CLOUD

Your Router

AT101

Any AT200 Modules Up to 300' Away

AT200-RT Remote Temperature Probe
External 3' probe for AT-200T, for use when the area needing to be sensed may block the signal of the AT200-T to the AT101.

1070   AT200-RT Remote Temperature Probe

The Galaxy System Sensors

Product Overview & Operation:

The AT200 sensors will communicate with any AT101 hub within range. A simple "learn" process pairs the sensor to the hub. Once this is completed, data will be immediately available on the hub's webpage and in the AT101 cloud. Designed, Manufactured and Supported in the USA!

AT200-SW Soil Tension Water Sensor

The sensor consists of a pair of highly corrosion resistant electrodes that are embedded within a granular matrix. A current is applied to obtain a resistance value. The transmitter correlates the resistance to Centibars (kilopascals) of soil water tension, designed to be a permanent sensor, placed in the soil to be monitored. Internally installed gypsum provides some buffering for the effect of salinity levels normally found in irrigated agricultural crops and landscapes.

- 0-200 Centibar range
- Will not dissolve in soil and is rain proof
- Not affected by freezing temperatures
- Internal compensation for commonly found salinity levels
- No maintenance

1071   AT200-SW Soil Tension Water Sensor
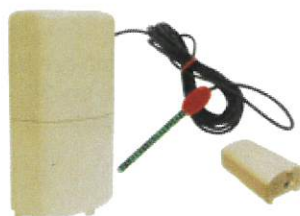
AT200-SV Volume Soil Moisture Sensor

The volume soil moisture sensor measures the dielectric constant of the soil using transmission line techniques, it is insensitive to water salinity, and will not corrode over time. Cable lengths of 4 meters.

- Measures volumetric water content (VWC) or gravimetric water content (GWC)
- Can be buried and is water proof
- Probe is long and slender for wider use, including smaller potted plants

1072   AT200-SV Volume Soil Moisture Sensor

AT200-T Temperature Sensor

Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a +/- 10% change. If there is a change in data, it will be transmitted immediately. A 6' remote probe is available (AT200-RT) to sample data in precise areas. -40 to 85°C

1063   AT200-T Temperature Sensor
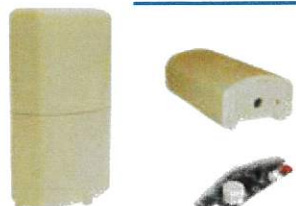
AT200-H Humidity (%RH) Sensor

Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a +/- 10% change. If there is a change in data, it will be transmitted immediately. 5-95% RH - 5% Accuracy
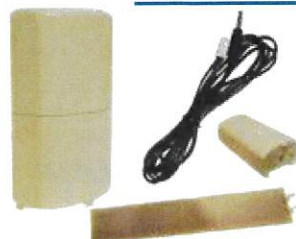
1064   AT200-H Humidity Sensor

AT200-L Light Sensor

Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a +/- 10% change. If there is a change in data, it will be transmitted immediately. Data reports 0-100
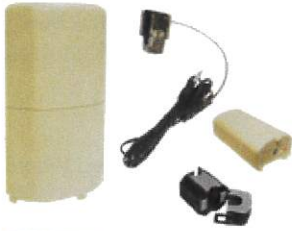
1066   AT200-L Light Sensor

AT200-W Water Leak Detection

The included sensing pcb/probe may be placed flat on the floor to sense the presence of water. Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a change. If there is a change in data, it will be transmitted immediately. Data reports 0-100

1067 AT200-W Water Leak Detection

AT200-CT A/C Current Flow Sensor
The included clamp on probe simply attaches to a wire of the device to monitor. For example, attach to a wire on a furnace fan to monitor. For example, attach to a wire on a furnace fan to monitor when the fan motor is running. Current threshold levels for triggering are jumper selectable within the sensor. Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a +/- 10% change. If there is a change in data, it will be transmitted immediately. Data reports 0-30A

1062   AT200-CT A/C Current Flower Sensor
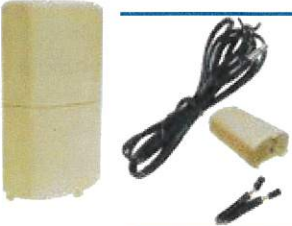
AT200-V Analog DC Voltage Sensor
May be attached to a backup batteries to monitor voltage levels. Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a +/- 10% change. If there is a change in data, it will be transmitted immediately. 0-30VDC - 0.1V

1065   AT200-AD Analog DC Voltage Sensor

AT200-C Contact Closure Sensor
Senses and reports status of any dry contact switch. A simple magnetic reed switch can be attached to sense whether a window or door is open or closed. Data is sampled every 30 seconds and transmitted every 6 minutes unless there is a change. If there is a change in data, it will be transmitted immediately.

1068   AT200-C Contact Closure Sensor

Redi-Heat™ Mats

Redi-Heat™ Heavy-Duty Propagation Mats

- **RDT-4 or RHT-2 Thermostat required**
- 2-Year Warranty and made from thick, flexible rubberized PVC in Phyto Blue
- Provides even, constant heat to root zone for flats and pots
- Designed for use on greenhouse benches or any flat surface
- Easy to install, economical to operate and portable
- Mats come with a heavy duty 5' cord and plug for 120 volt AC current
- Will heat up to 120°F and will not trip GFCI
- Water-resistant

Catalog Number	Size Width x Length	Watts per Matt
8600	12" x 5 foot	150
8602	12" x 10 foot	300
8606	21" x 5 foot	150
8608	21" x 10 foot	300

21" x 5 foot Redi-Heat Heavy-Duty Progation Mats

12" x 5 foot Redi-Heat Heavy-Duty Progation Mat & RHT-2 Thermostat

www.phytotronics.com

Phytotronics, Inc.   **(314) 770-0717**

# Redi-Heat™ Thermostats

RDT-4 Thermostat

Made in the U.S.A.

- 120 volts – 2400 watts maximum
- Built in15 amp fuse (replaceable)
- 4 outlets
- 6' long power cord
- 40°F to 99°F set temperature range
- +/- 1°F accuracy
- Sensor probe 1" long and 5/32" wide, small enough to be used in the cell of a plug tray.

- 52" long sensor cable
- Digital display show set temperature
- Up/down push buttons to set temperature
- Red LED light indicates when heating elements are on
- Comes with 4 self tap screws for attaching thermostat to a surface
- Can be used with optional mounting plate as shown below

8527   RDT-4 Thermostat

255052   15 Amp Replacement Fuse

Thermostat Bench Mounting Plate
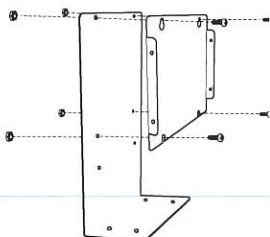
- Designed for mounting the RHT-2 and RDT-4 thermostat above plant material on the bench
- Position the Bench Plate away from water
- Four fasteners are provided
- Size: 12" H x 5" D x 7" W
- Thermostat sold separately

8529 Bench Plate

Poly Inflation Controllers

Poly Inflation Controller

Made in the U.S.A.

- Extends the life of film covering
- Regulates airflow for twin-film greenhouse blowers to maintain pressure between the film layers
- Saves Energy by maintaining pressure between Films
- Helps prevent damage by over or under inflation
- Offers more stability in windy environments
- Features a built in digital manometere
- Offers local humidity and temperature data on the display
- Has a remote temperature located in the inlet air intake
- This unit can be set to run in manual mode to hold a specified pressure setting or auto mode to adjust pressure based on temperature and wind gusts
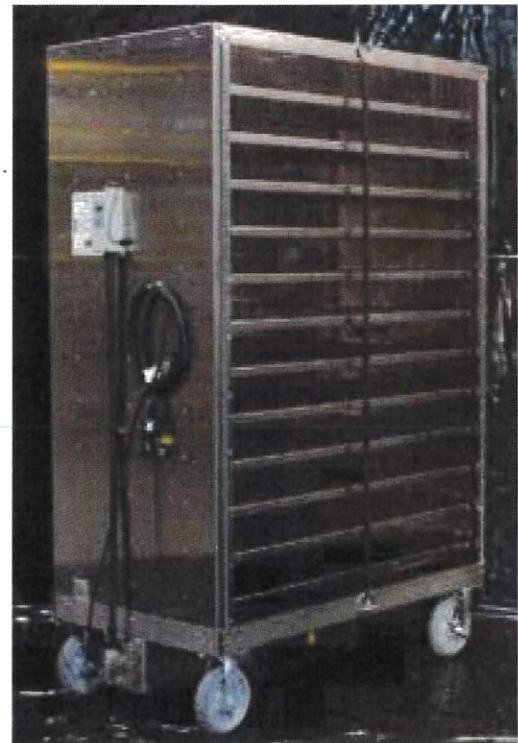
1430   Poly Inflation Controller

Features

- Stainless steel and aluminum construction
- Doors swing fully open on piano hinges allowing complete access to interior
- Clear polycarbonate doors
- The circular vents can be rotated from closed to open, providing infinite adjustments
- All ventilation openings are screened
- Water reservoir has automatic water level control for supply hose
- Thermostatically controlled heating element is submerged in water to provide moist heat
- Aluminum heat baffle for more even heating
- Water level sensor turns off heating element before element damage occurs
- GFCI cord end for safety
- Digital display shows temperature within the chamber
- Easy-set thermostat controls heating and ventilation fans
- Shelf Brackets are spaced at 5"
- Metal edged plastic shelves are removable for easy cleaning
- 8" Casters roll smoothly over doorjambs and bumps, 2 locking
- Ships fully assembled and ready to use

"Designed for Greenhouses, Schools, Universities, Research facilities, Nurseries, Market growers, and Seed Companies"

The Phytotronics Germination Chamber was designed by horticulturalists for horticulturalists. It incorporates many great features some are not available anywhere else; the door gutter collects condensation and redirects it back into the chamber to avoid puddles on the floor, low water level switch protects heating element, and the temperature settable ventilation fans move air through the chamber.

Digital Thermostat &
Fan Control

GC6 6-Shelf Chamber

Made in the U.S.A.

GC12 12-Shelf Chamber

Two Models Available

9720   6 Shelf, 24 Flat 46"H x 51"W x 27"D GC6- 6 shelves, holds up to **24 flats.**

9722   12 Shelf, 48 Flat 76"H x 51"W x 27"D GC12- 12 shelves, holds up to **48 flats.**

9732	Replacement Float Switch-Electric
420852	Replacement Heat Element
9733	Replacement Float Assembly - Mechanical
42085836	Door Snapdown Latch

Hi-Hose Watering System

- Keeps watering hose off of the floor and out of the way
- Labor-saving, cost-cutting, efficient
- Kits available for 50, 75 and 100 foot greenhouses
- Includes: coupled 5/8" "Blue Ribbon" hose w/ anti-kink hangers preinstalled, swivel pulleys, galvanized aircraft cable, wire rope clamps, and a turnbuckle
- 50' kit comes with 65' hose; 75' kit comes with 90' hose; 100' kit comes with two 65' hoses
- Hundreds of systems in use
- Assembly instructions included

6320 High Hose Kit   50 foot
6322 High Hose Kit   75 foot
6324 High Hose Kit 100 foot

Made in the U.S.A.

75' Kit pictured

*NOTE: Kit HH-100 requires a center support and either 2 faucets (one at either end); or a splitter at the center of the greenhouse.

Capmat™ II Capillary Matting

- Made of lightweight, high-strength, polypropylene, polyester, viscose material
- Gray colored mat is resistant to rotting, shrinking, chemical decomposition and being crushed
- Reversible and will not fray after cutting
- Can be used with Agribrom or Zerotol for algae control
- Highly absorbent, permits water to quickly wick to roots
- Mat thickness is 1.0 mm
- Capillary lift is 8.0 cm

Capmat II Capillary Matting
7000 4'x100' roll
7001 6'x100' roll

7070   4' distribution kit
7072   6' distribution kit

Misting & Watering Kit

Phytotronics Misting Kits

All necessary components

- Available in 3 different lengths
- Includes solenoids, filters, nozzles, pvc fittings, cement, wire, pre-drilled pipe and installation instructions
- Designed to cover misting benches from 4' to 6' widths
- Controller sold separately*

Controller Options*
1400   Electronic Leaf
1095   Trident T3A 1 Zone Controller

1300 25' – 1/2" PVC Pipe
1305 50' – 1/2" PVC Pipe
1310 75' – 1/2" PVC Pipe

DGT Nozzles — 3/8" BWT

Inverted Nozzle

- Threads are BWT (British Whitworth Thread)
- Two piece housing with O-ring seal and screen
- Use PVC Nozzle Adapters or the Mini Adapter for installation

Upright Nozzles

Note: Blue and White nozzles should be alternated as their mist patterns differ in height to prevent their mist patterns from striking each other.

DGT NOZZLE SPECIFICATIONS for Upright or Invertible Nozzles
Pin color indicates model

Nozzle Pin	Application	* Water Above	Nozzle Spacing	Approx. Dia.	50 PSI GPM	72 PSI GPM	Upright	Inverted
White	Mist/propagation-cooling	8"-10"	48"-60"	8'-12'	.53	.66	3002	3038
Blue	Mist/propagation-cooling	12"-16"	48"-60"	8'-12'	.53	.66	3001	3000
Red	Fine Irrigation	12"-16"	60"-72"	14'-18'	.79	1.14	3003	3040
Yellow	Irrigation	14"-18"	72"-96"	18'-22'	1.24	1.66	3004	3042

* Maximum height the spray will arc above the nozzle top.

Hozon™ Brass Siphon Mixer
With Backflow Preventer

"The Original, Classic Siphon Mixer!"

A time-tested, accurate proportioning device which dispenses fertilizers, insecticides, fungicides and other water soluble chemicals through a hose.
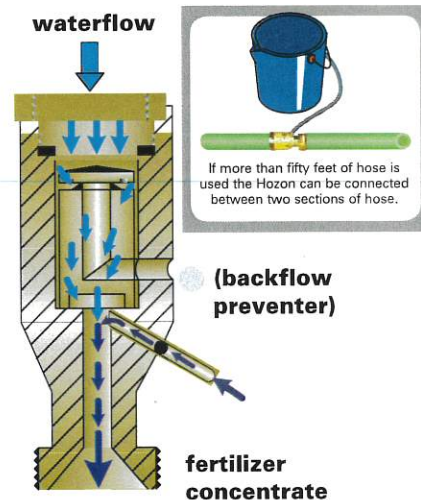
- Proportions at the rate of 1 gallon of concentrate to 16 gallons of water
- One gallon of concentrate is dispensed in 3 to 5 minutes
- 6 gallons per minute minimum flow
- Made of brass
- Hozon needs 35 psi minimum
- Use on maximum 50' length of hose (see illustration at right if more than 50' of hose is desired)

Made in the USA

The Hozon should be no more than fifty feet from the nozzle end to work correctly

How to prepare a concentrated solution not shown in the chart

- Hozon proportions at 1:16 so **concentrated solution should be made at 16 times** the recommended rate.
- **Example:** If fertilizer recommendation is 2 TBSP (1/8 cup) per gallon then make the solution 16 times greater than that rate (i.e., 16 x 2 = 32), or 32 TBSP (2 cups) per gallon would be the concentrated rate
- Then, when mixed with water from the hose, the concentrated solution will come out the hose end at the recommended rate

waterflow

(backflow preventer)

fertilizer concentrate

If more than fifty feet of hose is used the Hozon can be connected between two sections of hose.

	FERTILIZER OUNCES PER GALLON				
Analysis	100*	150*	200*	250*	300*
10-30-20	2.0	3.0	4.0	5.0	6.0
15-30-15	1.35	2.03	2.70	3.38	4.05
20-20-20	1.0	1.5	2.0	2.5	3.0

*PPM of nitrogen desired

- Solid Brass Siphon Mixer with Backflow Preventer
- Spring filter eliminates clogging
- Name brand, quality item
- Time-tested, accurate proportioning device
- Designed for smaller scale growers
- Siphon Mixer proportions at the rate of 1 gallon concentrate to 16 gallons water
- Requires a minimum 35 psi for proper operation
- Available in POP and bulk packaging

0001   Hozon - Retail Pack
0002   Hozon - Bulk Pack
0004   Hozon - Springs Stainless Steel
0006   Hozon - Repair kit

Bulk Package

Repair Kit

Hozon™ now with 3/4" BSP Parallel Thread!
Used in Australia, New Zealand, etc.

- Solid Brass Siphon 3/4" BSP with Parallel Thread, is also used in Australia, New Zealand, etc.
- Easily and accurately applies soluble fertilizer to lawn, garden and green-house plants.
- Prevents backflow should pressure fail
- Brass body for durability
- Eye-appealing packaging

- Retail display or bulk packaging
- Spring filter to eliminate clogging
- Easy to follow instructions

0003   Hozon - Retail Pack
0005   Hozon - Bulk Pack
0006   Hozon - Repair Kit

11

Pestrap™ & Pestick™

Pestrap™

- Essential IPM tool
- Grids for estimating threshold levels
- Use one card for every 500 sq. ft. of greenhouse
- Non-toxic & extremely sticky adhesive
- Use of gloves recommended
- Pestrap sizes 3" x 5", 4" x 10", 10" x 16"

Made in the U.S.A.

4620	3" x 5" Yellow
4624	3" x 5" Yellow/Blue
4600	4" x 10" Yellow - general pest monitoring
4605	10" x 16" Yellow - general pest monitoring

Pestick™

- Pestick™ is clear, allowing attractant colors to be highly visible under the coating
- Apply a thin coating of Pestick™ to colored plastic sheeting, cardboard, glass, wood, metals or other flat or contoured surfaces. Pestick™ can be applied with a small paint roller, hard bristle brush or spatula
- One gallon of Pestick™ will cover up to 500 sq ft of surface area with a medium coating

4000	**Quarts - Pestick Compound**
4002	**Gallons - Pestick Compound**
4020	**24" x 48" Yellow - HD Plastic Sheeting**

Rooting Hormones

Rhizopon® AA #1, #2 & #3 Dry Powder Rooting Hormones

- Registered with the US EPA for use in greenhouses and nurseries
- Acts with the plants own natural rooting hormones to aid in root formation by uniform absorption of the active ingredient.
- Ready to use formulation.
- Each dry powder is dyed pink, green, or white-gray to avoid mix ups
- Used by the Dry Dip Method
- Approved Label under WPS for zero-hour Re-entry Interval
- Available in three popular strengths:
  - #1: 0.1% IBA (Pink)
  - #2: 0.3% IBA. (Green)
  - #3: 0.8% IBA. (White-Gray)

0301	#1 Powder, .1% IBA	1 lb	0310	#2 Powder, .3% IBA	1 lb	0320	#3 Powder, .8% IBA	1 lb
			0315	#2 Powder, .3% IBA	25 lb	0325	#3 Powder, .8% IBA	25 lb

fertil™
Topdresser
Adjustable Granular Applicator
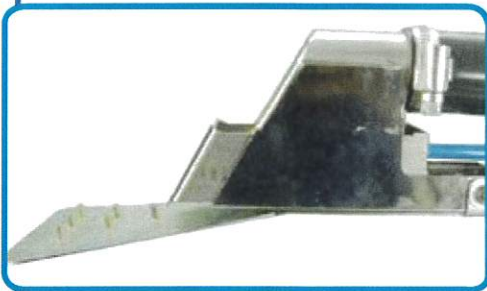
Fertil Adjustable Granular Applicator 6400

Top-dress with doses up to 4-1/2 teaspoons, up to 1,500 plants an hour!

A new revolution to top dressing that meets the demand of professional growers, providing accuracy and efficiency. Adjust the dose from 2 to 25 grams and apply granular fertilizer and herbicides in record time, up to 1500 plants per hour.

Accurate applications improve the quality and uniformity of your crop and with the Fertil Dispenser consistency is certain to each plant. Gravity feeds the granular material to the control wand and metered amount is dispensed with the press of a lever.

Weights 6.8 lb empty • 5 gallon volume