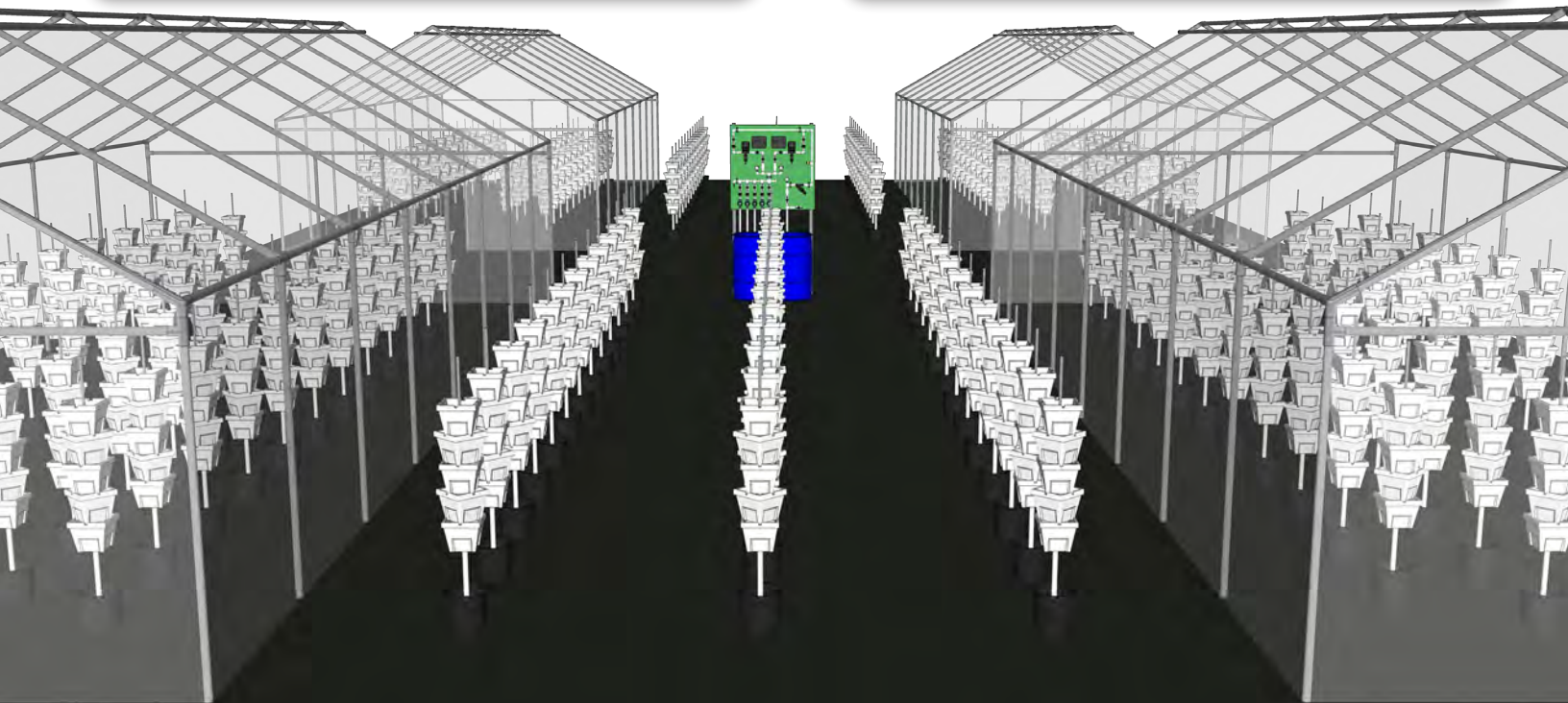
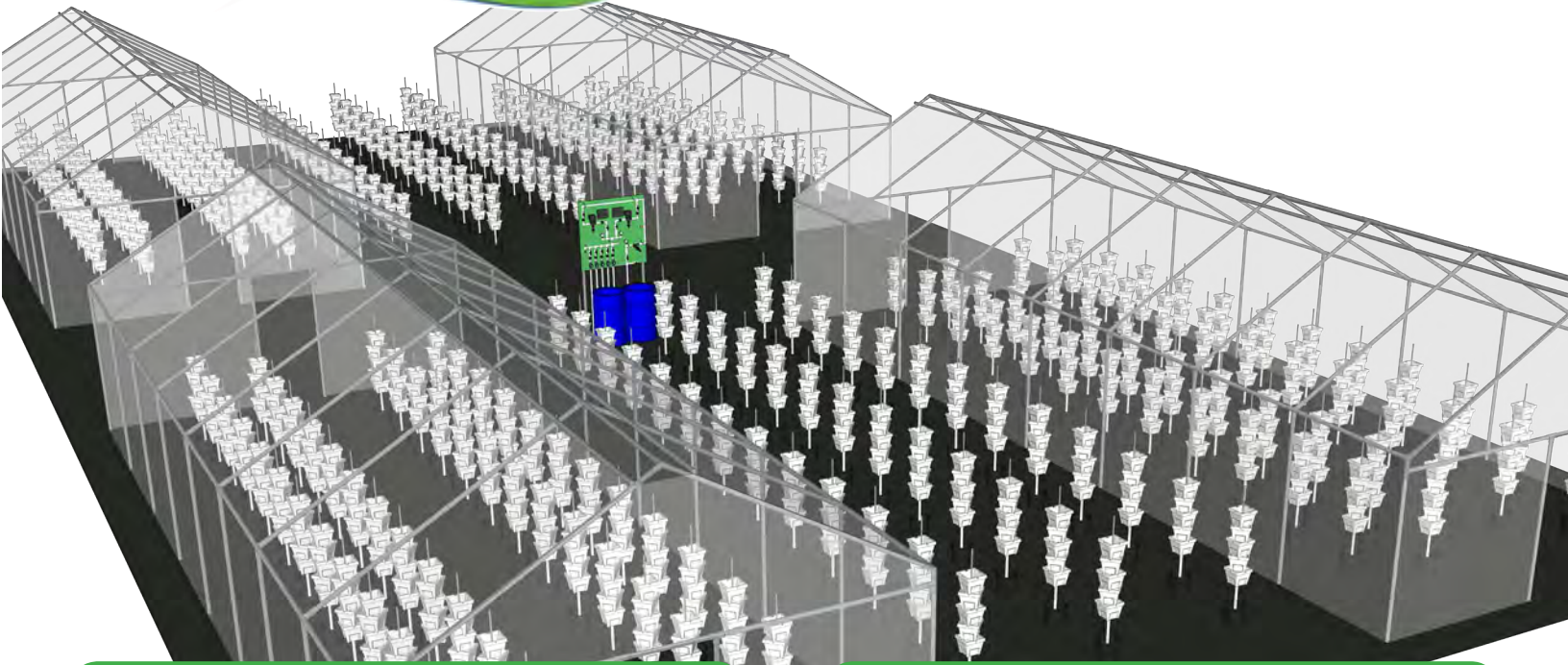




Agricultural Quad





Are we too far removed from our food supply or is our food production too far removed from us? Where has our care for high quality food gone, in a world that cares little for the consumer of food? We should know where and how our food is grown, how it is packed, and how long it has been sitting in storage. **Quality comes from freshness.** With home gardening and hydroponics in a Verti-Gro® Vertical Garden™ you can be sure that it is fresh and natural.

The news is full of issues dealing with fruit and vegetables grown and imported from other countries having issues with bacteria from human waste or covered with pesticides we have banned in the USA! Harmful pesticides are not restricted in other countries like it is in the United States and Canada. It is a known fact that these issues are making people extremely ill and causing life long issues because of bacterial or pesticide poisoning. Produce is handled too many times before it reaches our plates.

Wouldn't you like to see from the start of the seed to the harvest of the crop what has been done to your berries and veggies? Best of all you can do this yourself in your Vertical Garden™ or visit a Verti-Gro® Vertical Farm™ near you.

Hydroponics is the wave of the future for small farms and home gardeners, and Verti-Gro, Inc. is pioneering that future for your best benefit. The area required for vertical gardening is about 10 times less than in the soil. You can grow enough in a small area in your yard to feed your family and have some to share. It is guaranteed to be fresh, healthy and clean. **And, there are no weeds!**



For some it is difficult to get down on the ground to garden, and some give up all together due to the physical difficulty. Vertical Gardening may be the solution for you. Using vertical towers will allow you stand up and do your gardening or perhaps roll up to your garden from a wheelchair or jiffy scooter. Your Vertical Garden™ is accessible from the knees to shoulders, and it rotates freely for ease of gardening.

Using hydroponic vertical growing towers allows you to grow without soil and using no harmful chemicals. Vertical growing decreases insects and diseases because the

plants never touch the soil. The insulated pots allow fruits and vegetables to mature at the highest quality whether it is cold or hot. And, 85-90% less water is used. Hydroponic systems in vertical towers can easily be automated with a pump and simple timer. Verti-Gro vertical gardens are equipped with timers and pumps to insure proper feeding without constant attention.



No more worrying about your garden when you are gone. No more worry about too much or too little rain. Try it. The results are quite amazing! Become a Vertical Gardener.



HIGH DENSITY GROWING – THE VERTI-GRO® WAY

Verti-Gro, Inc.™ is a growing company with a innovative vertical growing concept like no other ever introduced to the hydroponic industry. The unique Verti-Gro® vertical growing system has been recognized nationally and internationally for over 16 years, both in commercial applications, research facilities and residential garden systems. Much progress has been made in residential Vertical Gardens™ for home gardening as well as the commercial grower throughout the world. **Various types of vertical growing systems have been tried over the years, but none as clean, simple, inexpensive, or durable as the Verti-Gro® vertical stacking pot system.** We coined the phrase “Vertical Gardening” and “Vertical Growing” years ago as the pioneer in this advanced way to grow plants. This system is so unique that a patent has been issued on the use of the system. With our Vertical Growing systems, and our Vertical Gardens™, high density growing is achieved with plant densities of 5 to 10 times that of field, and 3 to 5 times the density for certain crops grown in greenhouses. The vertical plant stacking system is easily installed in a short time, with little or no experience. The unique add-on capabilities of the Verti-Gro® stacking system makes it easy to expand. Mobility is a key advantage; it can be set up outdoors or indoors, in a greenhouse, under semi-protected covers, or in high tunnels.

Crops to Grow Vertically

The Verti-Gro® Vertical Growing System is versatile for vegetable and flower production. Crops that have been successfully grown are strawberries, leaf lettuce, Romaine lettuce, bok choy, kohlrabi, spinach, chives, basil (all types), cilantro, French Sorrel, rosemary, mint, parsley, water cress, oregano arugula, lemon balm, thyme, and even tomatoes, cucumbers, and beans. Horticulture crops that have been grown for show and propagation are New Guinea impatiens, ivy, and Boston Ferns. Production on certain foliage cuttings has been as much as **10 times** the amount normally cut from hanging baskets. Plants can be grown in this system in a concentrated area, sold as a system or replanted. The possibilities are unlimited with imagination and skill as a grower.



Proprietary Hydroponic Fertilizer

With 40+ years of experience in the hydroponic and greenhouse growing industry, the president of Verti-Gro®, Tim Carpenter, has developed special soluble fertilizers to work specifically for this vertical growing system. Vital to the success of vertical hydroponic growing is this soluble plant food containing all the essential elements. It is available in both commercial & hobby weights. This hydroponic nutrient is very safe and excellent for all types of plants. It only takes 6 to 8 ounces to make 100 gallons of fertilizer solution. (A list of organic fertilizers is also available from Verti-Gro®)



Greenhouses for the Vertical Growing System

Greenhouses of all sizes and types have been designed by Verti-Gro® suited for the vertical growing system. Inexpensive shade houses, plastic houses and tunnels as well as the “state of the art” complete controlled-environment greenhouses are available from Verti-Gro®. Let us design your complete greenhouse and vertical growing system!

Advantages in Brief

- More production in less space.
- Less capital outlay per plant space.
- Less water, fertilizer and pesticides.
- A cleaner, more nutritional product.
- An **insulated** container for better root growth.
- More crop versatility.
- Can be used anywhere (greenhouses, tunnels, outdoors).
- Easier to plant and harvest.

Summary

In the future space and energy will become major factors in the economics of growing food. Food costs and retail prices are going to increase significantly over the next 10 years. Safety is paramount! **Verti-Gro® is pioneering that future.**



Crop Suggestions • Vertical Gardening

- Strawberries • Tomatoes • Pak Choi • Beans
- Lettuce, Leaf • Lettuce, Romaine • Lettuce, Bibb
- Spinach • Peas • Swiss Chard • Cauliflower
- Tat Soi • Mustard Greens • Collard Greens
- Cherry Tomatoes • Grape Tomatoes • Sweet Onions
- Garlic Chives • Green Kale • Blue Dwarf Kale
- Banana Peppers • Green Peppers • Red Peppers
- Cucumbers • Sweet Corn • Melons • Squash
- Beets • Eggplant • Kohlrabi • Carrots • Cabbage
- Brussel Sprouts • Any Sprout • Microgreens



- Broccoli • Okra • French Endive • Pumpkins
- Peanuts • Cauliflower • Cilantro • Parsley
- Italian Basil • Lemon Basil • Rosemary • Sage
- Thyme • Peppermint • Candy Mint • Arugula
- Oregano • Lavender • Coriander • Dill • Chervil
- Tarragon • Summer Savory • Rue • French Sorrel
- Edible Flowers • Ivy • Pothos • Summer Daisy
- Pentas • Violas • Nasturtiums • Pansies • Violas
- Mums • Petunias • New Guinea Impatiens
- Snapdragons • Mexican Heather • Gerbera Daisy
- Ferns • **...Many more with your imagination!**





CROP SUGGESTIONS

Commercial and Home Crops-Vegetables, Fruits, Herbs

Popular Verti-Gro® Crops

- Strawberries
- Lettuce, Bibb (Salina or Dancine)
- Lettuce , Leaf (Sierra)
- Lettuce, Romaine (Concept, Ideal Cos)
- Spinach (Baby Leaf)
- Beans (Bush) and Peas
- Swiss Chard (White & Red)
- Pak Choi
- Tat Soi
- Mustard Greens
- Seven Top Turnip
- Collard Greens
- Tomatoes, Determinate
- Cherry Tomatoes, (Red & Yellow)
- Grape Tomatoes, (Navidad)
- Sweet Onions
- Garlic Chives
- Kale (Green & Blue Drarf)
- Peppers (Bell, Green, Colored, Cubanelle)
- Cucumbers
- Endive
- **Many more...**

Popular Crops in Verti-Gro® Ground Pot

(Grown in the Ground Pot below the Verti-Gro® tower)

- Sweet Corn
- Watermelon
- Cantaloupe
- Honey Dew Mellon
- Squash
- Beets
- Eggplant
- Kohlrabi
- Carrots
- Cabbage
- Broccoli
- Okra
- Peanuts
- Cauliflower
- Brussels Sprouts
- Potatoes
- Red Potatoes
- **Many More...**

Popular Verti-Gro® Herb Crops

- Cilantro
- Parsley, Dwarf Curly leaf
- Parsley, Italian flat leaf
- Basil, Italian large leaf
- Basil, Lemon
- Rosemary
- Sage
- Thyme
- Peppermint
- Chocolate Mint
- Arugula, Rocket
- Oregano
- Lavender
- Coriander
- Dill
- Tarragon
- Chervil
- Summer Savory
- French Sorrel
- Sweet Marjoram
- **Many more...**

Popular Verti-Gro® Horticultural Crops

- Ivy (cuttings)
- Pothos (cuttings)
- Summer Daisy
- Pentas
- Nasturtiums
- Pansies
- Violas
- Mums
- Petunias
- Ferns (fern cuttings)
- New Guinea Impatiens
- Snapdragons, dwarf
- Mexican Heather
- Gerbera Daisy

Note: These four categories of crops represent merely a few of the Verti-Gro® Crops grown at the Verti-Gro R&D Farm or the many commercial Verti-Gro Farm operations around the USA & world. Commercial crops should be selected based on economic value to your business model and market condition.

Strawberry Note: When growing strawberries on a larger scale they should have a separate nutrient delivery tank, due to requiring far less water and nutrients than vegetables.

Q&A with the pioneer of Vertical Gardening in the USA, Tim Carpenter

Q: What advantages does “Vertical Gardening” have over traditional gardening?

“You are able to utilize less area and space, less water and fertilizer, less (or none at all) harmful chemicals while creating higher productivity, grow better quality plants, and cleaner produce. It enables you to minimize insect damage and diseases that come out of the ground. Vertical Gardening is much easier and more enjoyable gardening for the grower or gardener.”

Q: What is Hydroponic Gardening?

“Hydroponics is simply gardening without soil. Soilless growing medias such as perlite, coconut fiber, composted pine bark, or other combined mixes, have little of the nutrients that the plant would normally leach from the soil. In this respect, nutrients for the plant has to be added in water-soluble form. Hydroponic fertilizer or what we call our specialized **Verti-Gro Plant Nutrient™** is added to the water containing the minerals that the plant needs to sustain growth. In this way the plant receives consistent nutrient feeding in the **Verti-Gro®** stacking growing systems. A proven hydroponic fertilizer is the key to good growth in our Vertical Garden™. Our produce is wonderful to eat, and amazing in quality.”

Q: What can you grow in the Vertical Garden™?

“Almost anything, except certain tall growing crops. Root crops do not do well, or may be inefficient to grow. Some of the best crops are **leaf lettuce, herbs, spinach, tomatoes**, and my personal favorite, **strawberries**. Many types of flowers and green plants, such as ferns and Ivy, flourish in the **Vertical Garden™**. You can see our website for ideas and pictures.”

Q: Can a person with little gardening experience grow in the Vertical Garden™?

“Anyone can grow in a **Vertical Garden™**. No gardening experience is necessary as you will learn as you grow. You need only an open mind and the desire to eat clean delicious vegetables and fruits. Not to forget the wonderful assortment of herbs and flowers! Many of our growing ideas and learning can be done by viewing our You Tube videos online.”

Q: Growing with the manual watering Vertical Garden™ stacks, how often do I have to water?

“We recommend the auto watering units, however manual watering is possible as well. Two to three times per day is recommended. Once per day may be O.K. for certain crops depending on the type of “soilless” mix you choose. With 50% coconut fiber and 50% perlite you need to water only once or twice per day. It is easy to automate the **Verti-Gro®** system.”

Q: Does the system come with everything that will be needed to grow a Vertical Garden™?

“Yes, however we do not assume to know what plants you will grow in your garden...so we leave that up to you. We include a plant starter kit that lets you start from your seed. If you prefer to buy starter plug plants from a garden center, that will work also. Our Vertical Garden system, growing media and fertilizer is all included. For some of our larger units, we will have you get a trash can or nutrient tank locally, due to the difficulty shipping. All of this is noted in your instructions.”

Q: Can you grow a Vertical Garden™ indoors?

“Yes, however you may need lights for best success. Indoor lights have been an expensive investment, with little expertise yet given to perfecting it on a large scale. All plants need light, some more than others. Some types of lettuce and herbs grow pretty good in a southern window. Lighting for indoor systems are available, and the technology is working through many advancements. This will be a major break through in agriculture in the coming years and we are ready.”

Q: Do you plant from the seed, or do you start them from a purchased potted or plug plant?

“Large seeds can be planted directly into the corner of each pot in the vertical stacks. To quicken the process small plants (plug plants) can be transplanted. This is a simple procedure and is economical to do. Sometimes you can plant two plants per planting cell when you are starting from seed. When starting from seed, you can use 50% perlite and 50% coconut fiber. (Starter kits are included to help you start from seed if you choose.)”

Q: How do you control bugs and disease without using harmful pesticides?

“A catalog of beneficial insects and biological mold control products is available. The health benefit of being pesticide free is great! We practice and teach PESTICIDE FREE, “clean and natural” vertical gardening. We have an excellent “Good Bug, Bad Bug” laminated color photo guide to identify pests. This is a topic that we teach on our YouTube channel frequently.”

Q: Can you grow organically in the Vertical Garden™?

“With the right organic planting media or compost and an organic fertilizer you can grow anything organically that you can grow hydroponically in the **Vertical Garden™**. **Verti-Gro®** now has a list of over a dozen organic fertilizers and pesticides.”

Q: How as a home gardener can the Vertical Garden™ save me money and enhance my life?

“**Eating well is contagious, especially when it tastes so good!** Growing your own food can save money if done in an efficient, low cost system like the Vertical Garden. Fewer vitamins and minerals are required when you are eating mineral rich foods. In all likelihood less money would be spent on medicines and medical expenses if we all ate well. It creates a therapeutic hobby that saves you money, rather than costing you money. It is a hobby that keeps you happily at home and one that works to improve discipline, health, and mental attitude. Vertical Gardening is an enriching experience, is life enhancing, often therapeutic, and is most always something to look forward to. **Have fun growing up with Verti-Gro®**”



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Tim Carpenter- Brief Resume

Tim began his hydroponic career at the age of 18 in Palm Harbor, FL with American Hydroponics. This was the first company to introduce Hydroponics using Perlite in plastic growing containers. This was also the first hydroponic system to use the Ebb and Flow re-circulating nutrients for growing tomatoes commercially.

In 1959-1962 he attended St. Petersburg Junior College on scholarship Women's Auxiliary Club in Palm Harbor, FL

In 1962-1964 he was stationed in Colorado Springs, CO with the Army Security Agency, Ft. Carson, CO.

He attended Colorado State University from 1965-1967 and obtained a BS degree in Applied Chemistry with minors in horticulture and business.

From 1967-1972 he was the Chemistry Laboratory Manager for Holly Sugar and in charge of 7 factory labs in 7 different states through out the Western U.S.

In 1970 Tim formed Chem-Gro Fertilizer Company to supply western growers with custom blended soluble hydroponic nutrients.

In 1972 he installed the first large hydroponic farm in Colorado Springs, CO under the name Hydro-Gardens, Inc., which he sold in 1996 to form the new vertical growing company, Verti-Gro, Inc.

Verti-Gro was the first company to introduce vertical growing in insulated stackable pots. Verti-Gro has a patent pending in 284 PCT countries.

Verti-Gro became a partner at EPCOT in 1996 and is still a partner after more than 15 years. Epcot has consistently displayed Verti-Gro systems since 1996 and has recently expanded the current Verti-Gro display

Verti-Gro operates a Research, Training and Demonstration Center in Summerfield.

Verti-Gro has been a partner with the University of Florida at the UFNREC in Live Oak, FL for 15 years and presently with the Ag Extension Center in Hastings, FL.

Tim is on the Advisory Committee at the University of Florida Institute of Food and Agricultural Services and the Advisory Board at the College of Central Florida for the Agri-business program.

Verti-Gro has manufacturing in Colorado Springs, CO, Tupelo, MS as well licensee manufacturers in 4 countries (France, Puerto Rico, South Africa and Dubai).

Verti-Gro has commercial systems in over 25 countries.

Other accomplishments:

- President of the Western Greenhouse Vegetable Growers Association and the American Greenhouse Vegetable Growers Association for 10 years during the 1980's.
- Board of Directors for the National Greenhouse Vegetable Growers Association and the American Society of Plastics for 5 years.
- Member: Advisory committee, University of Florida, IFAS, Region 3
- Member: Advisory committee, College of Central Florida, Agribusiness College
- Member of the Florida Farm Bureau for over 12 years.
- Member NC Strawberry Growers Association
- Member FL Strawberry Growers Association
- Member National Strawberry Growers Association.
- Member NC Vegetable Growers Association
- Member Fresh From Florida (USDA)

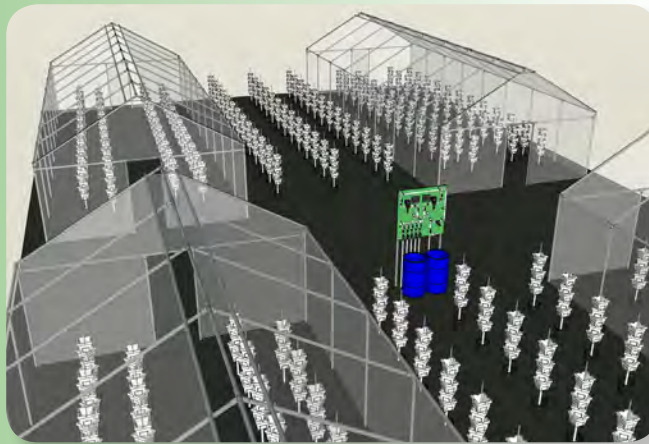




19X48 Greenhouse
AgQuadPro-48 utilizes four 19X48 GH's

Vertical Farming
12,000 - 120,000 plants /acre!

What do you want to grow?



Vertical Agriculture

With the ability to grow 12,000 to 120,000 plants per acre in Verti-Gro's systems, our farmers are finding many ways to save resources, expand harvests, feed communities and grow agriculture all over the world. We manufacture our Verti-Gro® growing containers in the USA, Europe, and Africa. No farming application is too large or too small. At Verti-Gro® we innovate in **Vertical Agriculture**.



www.**YouTube**.com

www.youtube.com/**OfficialVertigo**
Verti-Gro's How-To-Video Sessions
Vertical Gardening Learning Center



f Visit us on
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The Vertical Gardening
Community and Conversation



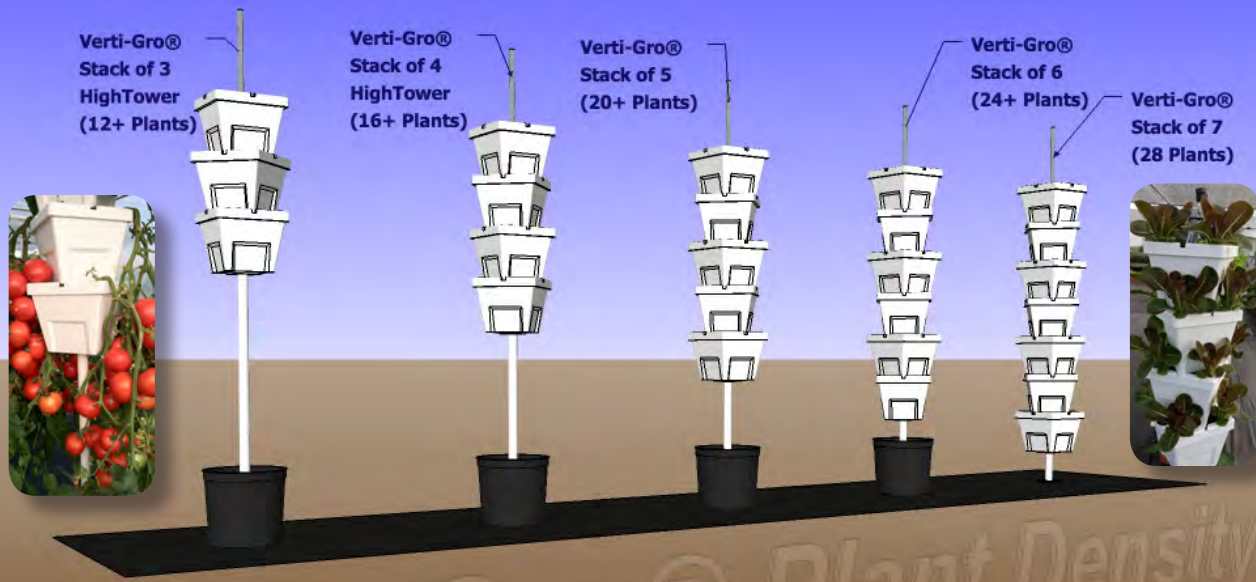
The Original
Vertical Garden Company
Pioneering In Agriculture for over 45 years.

www.vertigro.com



Verti-Gro
MADE IN THE USA

15000 US Hwy 441 S Summerfield, FL 34491
O: 352-347-9888 F: 352-347-6313
Ordering: 800-955-6757



Our Verti-Gro® Vertical Growing systems can scale to any plant density that your farm crop(s) needs. We patented Vertical Stacking growing technology in 1996 and we continue to innovate vertical growing systems for today and into the future of farming. **We are growing "up"!**

Wisdom + Integrity + Results = **Verti-Gro** MADE IN THE USA



We are doing our best, for your best benefit!

That's the way we have done business for over 45 years.

Where to use Verti-Gro® Systems

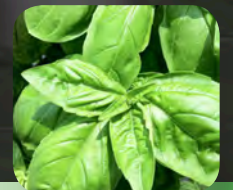
- Outdoors with no covering
- In Naturally Vented Greenhouses
- In Climate Control Greenhouses
- On Roof Tops or Sunny Balconies
- On Concrete or Parking Lots
- In Low Tunnels
- In High Tunnels
- In Shade Houses

Vertical Farms In Action

- U-Pick Farming
- Farm Store Sales
- Farmer's Market
- Agri-Tourism Attraction
- Co-Op Agriculture
- Church Farming
- Educational Farms
- Wholesale Farms
- Community Farms
- City Markets

Vertical Farm Benefits

- Land Cost Savings
- Less Water Usage
- Less Fertilizer Usage
- Maximized Control
- Extension of Season
- Insulated Root System
- Utilization of Space
- Unparalleled Plant Density
- Stand-Up Harvesting
- Auto Injected Irrigation
- No Soil Pathogens
- Mobility of Crop
- No Weeds





**“RECOGNIZED WORLDWIDE AS THE PIONEER & LEADER
IN VERTICAL GROWING TECHNOLOGY”**

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Verti-Gro® Website



Verti-Gro® R&D Farm



www.youtube.com/officialvertigro



Tim Carpenter - Contact VCard
President – Verti-Gro®, Inc



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Marketing & Sales Support

