

## Outdoor Vertical Gardens: Nutrient Mixing & Plant Watering

### Verti-Gro Hydroponic Nutrient Guide

(A proven nutrient tested for 25 years on commercial crops)

Hydroponic nutrients contain all of the essential 13 elements for healthy plant growth. Under normal conditions the plant would use needed minerals from the soil in the ground, or the potting soil that you may have purchased at your local nursery. With hydroponic nutrients in a dissolved liquid form, you will be able to feed the plant the minerals needed regardless of what growing media is used. The preferred “soilless” mixture: perlite (sand popped like popcorn) and coconut fiber (coconut coir husk) is shipped with the portable garden. Using Perlite and Coconut Fiber mixture alone will not give the plants the minerals they need. We will tell you how to mix the nutrients into usable liquid concentrates that will give the plants the minerals they need to grow.

### Mixing Nutrients

To give you the best value, we have shipped a long lasting supply of nutrients in a concentrated dry form that first needs to be mixed into a liquid concentrate for use in your Vertical Garden. The goal is to end up with two separate gallon jugs of liquid concentrate.

We will start by mixing the 1 pound bag of each nutrient into a separate gallon jug of water to create liquid nutrient concentrates. Follow the directions below, and then refer to the “How to Water” instructions.

#### You will need:

- ◆ Two empty 1 gal. containers (like milk jugs)
  - ◆ One 2 pound bag Verti-Gro “5-10-25” dry plant nutrient
  - ◆ One 2 pound bag. of Verti-Gro “15-0-0 Calcium Nitrate” dry plant nutrient
1. Pour the “5-10-25” dry fertilizer into an empty gallon jug, label it “5-10-25 Plant Nutrient”
  2. Fill it with water and you have just created the “5-10-25 Liquid Concentrate Plant Nutrient”
  3. Shake well until dissolved. **In addition, shake well prior to each use.**
  4. Pour the “15-0-0” dry Calcium Nitrate into the other jug, label it “15-0-0 Calcium Nitrate”
  5. Fill it with water and you have just created the “15-0-0 Liquid Concentrate Calcium Nitrate”
  6. Shake well until dissolved. **SHAKE WELL PRIOR TO EACH USE!**
  7. Now read the box below: “**WATERING THE VGK OUT DOOR GARDENS**”

**<<<Common Sense Caution: Keep liquid concentrates out of reach from children >>>**

## WHAT IS “5-10-25” and “15-0-0”?

The numbers represent the percent of Nitrogen(N), Phosphorus(P), and Potassium(K) in the plant nutrient. **Verti-Gro**'s versatile 5-10-25 is a 2-part nutrient, which means it contains everything but Calcium. So the 5-10-25 formula contains Nitrogen, Phosphorus, & Potassium... as N-P-K (5-10-25). In addition, it contains Magnesium and Sulfur in the form of Epsom Salts, as well as all the trace minerals. Look at the guaranteed analysis on the side of the plant nutrient bags to see all of the mineral elements. These elements have been formulated for a balanced and complete plant nutrient. With the addition of Calcium Nitrate 15-0-0 (in equal amounts) from the separate bag, you have a complete formula that grows virtually anything, including normal feeding for houseplants. Give it a try, you will love the results. Don't substitute unproven incomplete formulas. All elements are necessary in “hydroponics”

**(Reorder special: 5 lbs. of each 5-10-25 and 15-0-0 for only \$24.95 PPD. Makes up to 1,000 gallons!)**

## Watering the outdoor Vertical Garden

### What to do and how often?

We will start by stating that plant watering is not an exact science, it is subjective, and takes good common sense. Like you, a plant is a living organism. Whenever you are thirsty, your plant is likely thirsty also. You wouldn't let yourself go a day without drinking liquids and nourishing your body and your plants have the same requirements. Here's our best recommendation for keeping the relationship with your plants a good one:

**You will need:** ♦ A 30-50 gallon garbage can or tank

1. Add 1/2 ounce of the “5-10-25” & 1/2 ounce of the “15-0-0” liquid concentrates that you mixed above to your watering container for every one gallon of water.  
In a 32 gallon tank you would need 16 ounces or 1 quart of each concentrated fertilizer solution.  
(Remember you are using both 5-10-25 & 15-0-0 liquid concentrates from your labeled containers)
2. Normally, a minimum of 120 plants will be growing in your **Vertical Garden OutDoor Kit**. Keeping this in mind, your garden well need to be adequately watered at least once per day, preferably once in the morning and once at about noon.

These are suggested recommendations:

- The larger the plant the more it will need, etc...
  - The more sun it receives the more water and nutrient it will need (as in the outdoor system)
3. Set the electronic timer for 2 minutes in the beginning for 3 times per day at 8AM, 11AM & 3PM. Adjust so that there is ample fluid to just start to drain out the bottom. Watch the time and see how long it takes to fill the poly pipe and emitters and adjust accordingly to wet all the perlite but not to waste nutrients and water.
  4. Most importantly, have fun with your **Vertical Garden!**

**Add up to another 20 pots on this system for \$49.95 including shipping.**