



# Aloha Vertical Victory Garden™

## User Guide

Thank you for choosing our Aloha Vertical Victory Garden. Edible gardening is fun, healthy, it tastes great and it's very satisfying. We are pleased that you can now experience this, too. Our garden was designed with you in mind. It is easy to set up and use. Tools are not needed. Set up should take about 30 – 45 minutes.

***Please read this entire User Guide before beginning.  
It will make the set-up process easy and enjoyable.***

Happy gardening!

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# Unpacking the Vertical Victory Garden

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## Unpack and Lay Out Parts



A. Coir



B. Reservoir



C. Lid



D. 4-Pod pots (6)



E. Pump assembly (see pg. 2, Step 6)



F. Washer



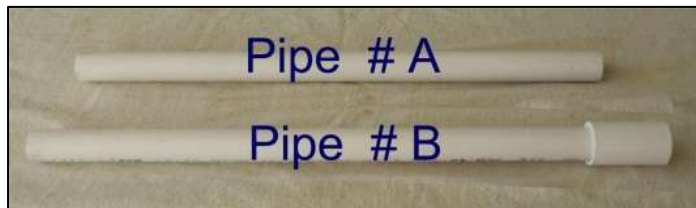
G. Saucer



H. Sleeves



I. Emitter



J. Pipes A (short) and B (long)



K. Outdoor timer



L. Nutrients



M. pH Test strips



N. Emitter sleeve

# Setting Up the Vertical Victory Garden

## Let's Get Started!

### Step 1

Unwrap coir block and place in the reservoir. Add three gallons water.



### Step 2

Coir block has expanded and is ready to use (about 15 minutes).



### Step 3

Place sleeve in center of pot.



### Step 4

Fill the pot with coir. Keep the inside of the sleeve free of coir. Repeat steps 3 and 4 and fill all 6 pots.



### Step 5

Put the remaining coir in a plastic bag or bucket. Rinse out reservoir and wipe dry. Put lid on reservoir.



### Step 6

The finished pump assembly will look like this.



The parts required for the pump assembly are the following:



## Setting Up the Vertical Victory Garden

### Step 6A

Open pump box, remove pump and pump adaptor bag.

### Step 6B

Open bag and remove ½" adaptor. This is the only part you will need from the pump adaptor bag.

### Step 6C

Insert ½" adaptor into pump and hand tighten. It should be snug.



### Step 6D

Hand tighten adaptor elbow into riser pipe tee. *It is important to have the adaptor pointing down and off to the side.*



### Step 6E

Use the ½" hose to connect the pump to the riser pipe. Push the end of the hose over the adaptors as shown below.



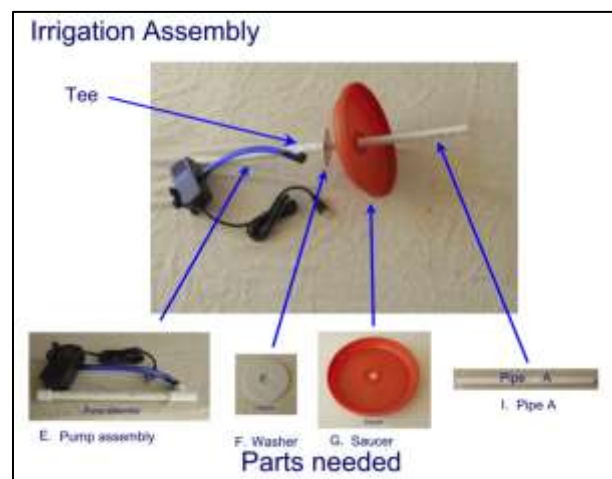
Your pump assembly is good to go.

### Step 6F

To complete the irrigation assembly system:

- Gently press pipe A into pump assembly.
- Slide washer over pipe A, let rest on the tee.
- Slide saucer over pipe A, let it rest on washer.

*Note: Pipe A is the shorter pipe.*



**Congratulations! You have built the irrigation assembly system.**

## Setting Up the Vertical Victory Garden

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### Step 7

Unwrap pump cord. Insert irrigation assembly into reservoir through the large opening in the lid.



### Step 8

Pull power cord through inspection opening.



### Step 9

Insert irrigation assembly system saucer into center opening in lid. Push excess cord into reservoir, leaving the plug exposed. Close the inspection door lid.

**You are now ready to assemble the Vertical Victory Garden.**

### Step 10

Slide pot #1 filled with coir over pipe A until it sits firmly on the saucer.



### Step 11

Slide pot #2 filled with coir over pipe A until it sits firmly on pot #1.



### Step 12

Slide pot #3 filled with coir over pipe A until it sits firmly on pot #2.





## Setting Up the Vertical Victory Garden

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### Step 13

Gently insert pipe B coupling into pipe A.

*Note: Pipe B is the longer pipe.*



Pipe B coupling



### Step 14



Add pots 4, 5 and 6, installing pots just like before.

### Step 15

Insert emitter into top of pipe B, gently pushing down.



### Step 16



Set the emitter sleeve over the top of the emitter.

### Step 17

Open inspection cover. Pull pump cord out leaving slack in reservoir. Fill one-half with water. Test watering system by plugging pump into a [GFCI-protected electrical outlet](#).

*Note: At this time, you might want to relocate your Vertical Victory Garden. If so, follow [Disassembly Instructions](#) on page 6.*

Add nutrient solution. See Nutrient Solution instructions on page 7. Fill the reservoir with water to about two inches from the top.

### Step 18

Plug in timer. Set watering times at 6:00 a.m., 11:00 a.m. and 5:00 p.m. initially. Adjust the length of time and time of day for each watering cycle as needed. Your watering schedule will vary with the temperature.



**Now you are ready to plant your Aloha Vertical Victory Garden!**

## Disassembling the Vertical Victory Garden

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### Step 1

With two hands, hold on to the top pot. Lift the top planter off with a little force. The emitter will become disconnected and come off with the top pot.



### Step 2

With both hands on the third pot, use a little force to lift off the next three pots.



Riser pipe B will be disconnected and come off with the three pots.



### Step 3

Lift off the bottom two pots.



### Step 4

Remove lid and saucer.



### Step 5

Empty water located in the reservoir. Move vertical planter to desired location and reassemble.

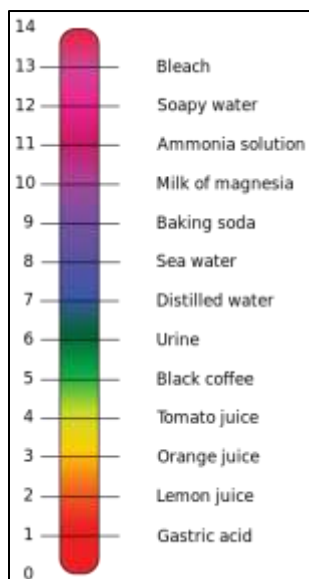




# Nutrients: Feed Your Plants So They Can Feed You

All plants need to be regularly provided with nutrients to survive. Although the supply of nutrients in soil can fluctuate significantly, with hydroponics, you are in charge and can make nutrients available to plants in a far more precise manner.

Hydrogen, carbon and oxygen are all absorbed by plants from the water and air. Mineral salts are typically purified so they are water soluble and can be absorbed by plants. Nutrient salts containers list the percentages of each of three key elements included, for example: NPK 5-50-17 is 5% N (nitrogen), 50% P (phosphorus) and 17% K (potassium).



### pH and Why It Matters

A pH meter or tester measures the acidity and alkalinity of a liquid or other substance on a scale with a range of 0 to 14, where 0 to

6 is acidic, 7 is neutral and 8 to 14 is alkaline. The ideal range pH range for most hydroponic crops is 5.5 – 6.5 which allows plants to properly absorb and process nutrients most efficiently. If water is too alkaline and you want to lower the pH, add a small amount of vinegar. If water is too acidic, you can raise the pH by adding a small amount of baking soda.

### Preparing the Nutrients

#### Step 1

Here is where you use the Grow More water-soluble concentrate, Sea Grow All Purpose 16-16-16, included with your Vertical Victory Garden.

**Note: Always unplug the pump before working with water.**

Fill one-half of the reservoir with water. Capacity is 17 gallons when filled 2" from the top.

- Add 4 level tablespoons of the Grow More All Purpose 16-16-16; fill rest of reservoir with water.
- *When the reservoir is two-thirds empty:* Add 2 level tablespoons of the Grow More All Purpose 16-16-16 and fill the reservoir with water. Check the nutrient solution level once a week and add water and nutrients as needed.

## Disassembling the Vertical Victory Garden

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### Step 2

Here is where you use the pH test strips included with your Vertical Victory Garden. After adding the nutrients, dip one of the strips into the reservoir to check the pH level of the solution. As previously, a pH range of 5.5 – 6.5 is preferred for most crops. We have found 5.9 – 6.2 works the best. Using Bud & Bloom nutrients will typically bring the pH close to 6.0.

However, if you need to lower the pH, add 1 ounce of vinegar at a time. Mix the nutrient solution in the reservoir and check the pH again. Repeat this step as needed. To raise the pH, add ¼ teaspoon of baking soda at a time. Mix the nutrient solution in the reservoir and check the pH again. Repeat this step as needed.

(<http://rgjhydroponics.weebly.com/the-importants-of-ph.html>)

### Step 3

Plug in timer. Set watering times for 15 minutes each at 6:00 a.m., 11:00 a.m. and 5:00 p.m. initially. Adjust the length of time and time of day for each watering cycle as needed. Your watering schedule will vary with the temperature and type of plants.

### Happy Gardening!

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