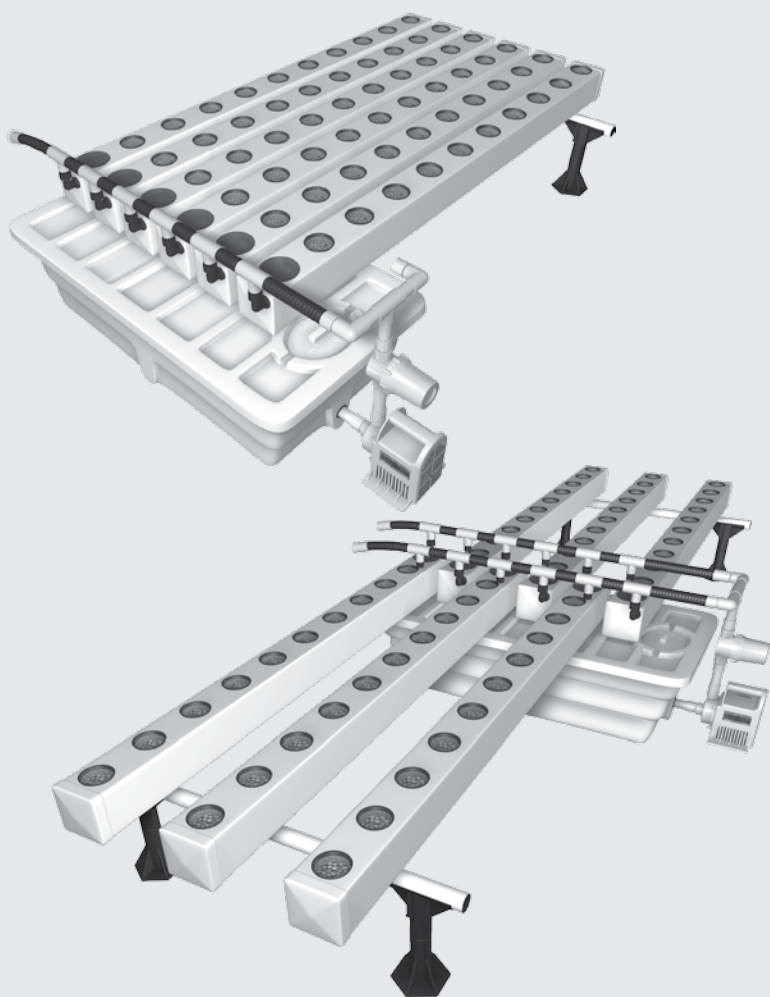


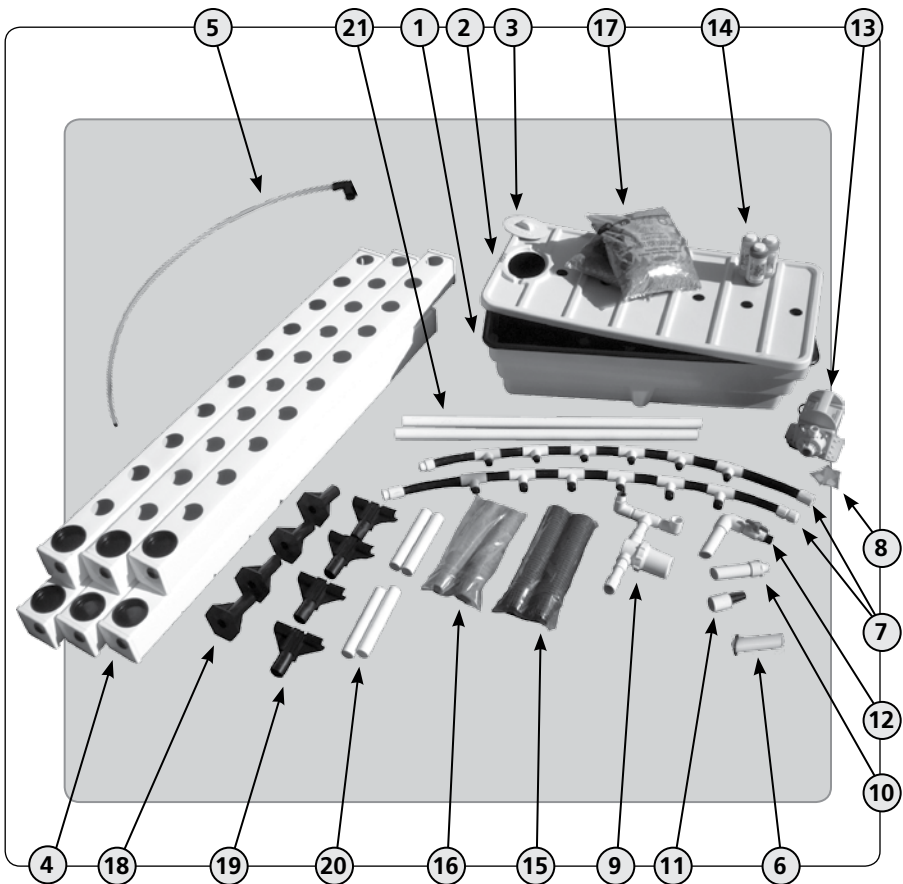
**GENERAL HYDROPONICS®**

# **AeroFlo®**

## **60**

### **Assembly Guide**





**AeroFlo 60 PARTS:**

*assembled dimensions: 5'1" L X 6'10" W X 2" H  
(staggered configuration: 5'1" X 117" W X 2" H)*

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1: Panda Reservoir (40 gal)</li> <li>2: Reservoir Lid</li> <li>3: Hatch Cover</li> <li>4: Growing Chambers (6)</li> <li>5: Laser Spraylines (6)</li> <li>6: Drain Level tubes (6)</li> <li>7: Manifold (2)</li> <li>8: Silicon Grease (2)</li> <li>9: Filter Outlet Assembly</li> <li>10: Pump Inlet</li> </ul> | <ul style="list-style-type: none"> <li>11: Pump Inlet Strainer</li> <li>12: Drain Valve</li> <li>13: TNC Pump</li> <li>14: Flora Series Nutrient</li> <li>15: Net Pots (60)</li> <li>16: CocoTek Liners (60)</li> <li>17: Clay Pebbles (2x 9 Liter)</li> <li>18: SnapStand Base (4)</li> <li>19: SnapStand Cross Fittings (4)</li> <li>20: SnapStand Support Legs (4)</li> <li>21: SnapStand Cross Support (2)</li> </ul> |
|--|---|

## STEP 1

Place the Reservoir with the lid and hatch cover where it will be used on a level surface. Line the inside of the Reservoir grommet with a thin coat of the Silicon Grease. Insert Drain Valve into grommet using a twisting motion.



## STEP 2

Attach the Pump Inlet and the Filter Outlet Assembly to the TNC Pump. Position the filter to the side to avoid splashing the pump with water when cleaning the filter. The filter should be cleaned monthly by rinsing with warm water.



## STEP 3

Line the inside of the Reservoir grommet with a thin coat of the Silicon Grease and insert the Pump Inlet that is attached to the TNC pump. Attach the strainer to the inside of the reservoir to the Pump Inlet.



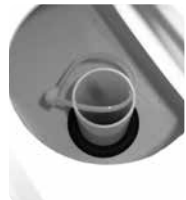
## STEP 4

Assemble the SnapStand by sliding the two Support Legs into the SnapStand Bases and the SnapStand Cross Fittings. Snap the Cross Support into the SnapStand Cross Fitting and place the SnapStand approximately 5ft from the reservoir (the second set of SnapStands are only used when staggering the Growing Chambers).



## STEP 5

Remove the Laser Sprayline and Drain Level Tube from each of the Growing Chambers. Follow the included directions on inserting the Laser Spraylines into each Growing Chamber. Line the inside of the Growing Chamber grommet with a thin coat of the Silicon Grease and insert the Drain Level Tube half way into the grommet. Repeat for the rest of the chambers. The water level of the Growing Chambers is adjusted by raising or lowering the Drain Level Tubes.



## STEP 6

Center the Growing Chambers with the Drain Level Tube inserted into the Drain Overflow Hole and the other end on the SnapStand. The level of the water in the Growing Chambers is controlled by the height of the Drain Level Tube. Keep the Drain Level Tube access covered after adjusting the water level.

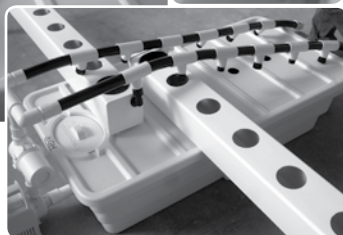
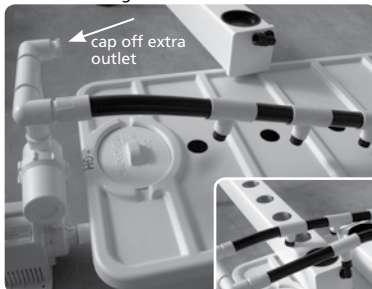


## STEP 7

Cap off the unused end of the Filter Outlet Assembly and the end of one of the manifolds for the standard setup. Attach the Manifold to the Filter Outlet Assembly and attach each of the Laser Spraylines to the Manifold. Make sure there is a rubber gasket in the Laser Sprayline fitting and **DO NOT OVER TIGHTEN**.

Attach both manifolds to the Filter outlet Assembly and cap of the ends of the Manifolds for the staggered setup.

standard configuration



staggered configuration

## STEP 8

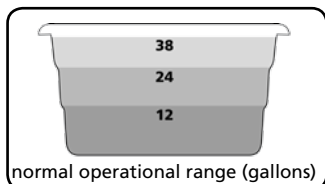
Place the **Net Pots** with the **CocoTek Liners** into the growing sites and use the **Clay Pebbles** to support seedling plants. Always rinse the Clay Pebbles before use.



## FILLING

Before filling your system with water it is essential that you understand the system capacity. The reservoir should be drained first before draining the growing chambers. This will prevent overflowing of the reservoir and possible flooding. See illustration for reservoir capacities at each of the steps. Fill the reservoir with a known volume of water and then start the pump. Adjust the Drain Level Tubes (DLT) to the desired level and start adding water in 1 gallon increments until the Growing Chambers and reservoir are at the desired levels. Record the total gallons to be used for calculating the amount of nutrient to add to the system. See chart for approximate amount of water each system holds at the two operating levels.

**CAUTION: Never run the water pump without water covering the pump inlet.**



Reservoir capacity	Growing Chamber		Total Water*	
	low level	high level	low level	high level
	gallons			
38	1	4	44	62

\* Total amount of water in all chambers and reservoir

## PLANTING

To prepare a seedling or a plant for transplanting, remove all soil and/or organic material from around the roots. Plants must be sturdy with established roots before transplanting into the AeroFlo. Choose seedlings because it's more difficult to successfully transplant older plants. If your plant has been growing in soil or peat moss, gently remove the plant from its pot and carefully rinse as much soil as possible from the roots before transplanting. Although this method of transplanting from soil to hydroponics is somewhat risky, as soil may contain disease organisms that proliferate in the rich hydroponic solution, we have had success using this transplant method and encourage you to try it. Or, you can avoid these problems by starting plants from cuttings in one of our RainForest Systems.

## PLACEMENT

Abundant light, proper temperature and adequate ventilation are crucial for fast growth, healthy plants and higher yields. Place the AeroFlo system in a warm, well-lit, well-ventilated location, such as an outdoor garden, sunlit window, patio or greenhouse. Keep your AeroFlo away from areas where the inevitable dripping that occurs during filling, draining and pH adjustment could cause water damage.

## NUTRIENTS

Start by choosing either the most widely recognized, reliable nutrient in the industry, Flora Series® or step into the technological breakthrough of FloraNova® for the accelerated performance of mineral nutrients enriched with the healthy, flavorful characteristics of organics. Please refer to our Feeding Schedule that is provided with the system for nutrient recommendations.

- Keep the nutrient solution temperature below 75° F (24° C).
- Change nutrient solution every 7-10 days.
- Top off with fresh water between nutrient changes.
- Keep nutrient solution aerated for best results.
- If your water is above 200 ppm total or 70 ppm calcium, use Hardwater FloraMicro instead of FloraMicro.

The pH (acidity or alkalinity) of a nutrient solution affects the availability of the elements contained within. Use GH pH adjusters to maintain nutrient pH between 5.5 - 6.5.

## OPERATION

When plants are small and their roots are not well developed, the Drain Level Tubes (DLT) should be at the maximum height to allow nutrient rich water to reach the bottoms of the net cups. Once the roots have grown and are immersed within the flowing stream of nutrient, the DLT's can be pushed down to increase oxygen within the nutrient and growing chamber. The water level in the Growing Chambers should be maintained at a 1" to 2" depth in case the power or the pump fails. Generally it's best for the system to always run. However, many people do put their AeroFlo systems on a timer to save electricity. The AeroFlo stays on during the light cycle and only runs for 10 to 15 minutes every 1 to 2 hours for the night cycle. Cycling the pump keeps the water from stagnating and the roots from drying out and dying.

## PREPARATION FOR REPLANTING

Drain the whole system, brush out the growing chambers and, if necessary, unplug the spray holes in the beige spray lines mounted inside the growing chambers. Sponge off all parts to disinfect. You can use General Hydroponic's FloraShield™ to clean the system and clay pebbles or a disinfectant. Rinse everything thoroughly. Refill it with water and run it for a few hours, then drain again before introducing a new crop. Clean filters frequently. Simply unplug pump and remove reusable filter. Rinse pump filter under hot water to clean. **CAUTION: Do not rinse filter with a strong Bleach (chlorine) solution, it may react with the filter and form an oily residue.**

## TROUBLE SHOOTING

### *If white salt deposits form on the clay pebbles:*

1. Try using a milder nutrient solution and topping off with plain water only.
2. Occasionally drain your system, refill with plain water and run the pump overnight. After the overnight rinse, empty reservoir and refill with fresh nutrient.

### *If plants are not growing well and you suspect "hard" water:*

1. Use FloraMicro Hardwater in place of FloraMicro.
2. Try distilled or purified water. You should see a significant improvement in plant health and growth within one week.
3. Collect rainwater for use in your AeroFlo.

### *If nutrient solution stops flowing from the beige spray lines:*

1. Check to ensure that pump is plugged in and the reservoir is filled with nutrient solution.
2. Check whether emitter holes in the beige spraylines are clogged. Keep pump filter clean and use General Hydroponic's FloraKleen™ to minimize nutrient buildup and crusting.

#### **FLORAKLEEN®**

- Dissolves accumulated fertilizer salts.
- Reduces plant stress from excess and imbalanced nutrients.
- Releases nutrient bonds between plants and systems, also correcting nutrient lock-out.
- Use FloraKleen as a final flush a few days before harvest to promote maturation and sugaring.
- Safe for all systems and media while plants are growing.

FloraKleen removes fertilizer residue that can accumulate over time in hydroponic systems, growing media, and potting soils. Use FloraKleen monthly to purge your hydroponic system or potted plants of excess salts that can accumulate as a result of regular fertilizer application. FloraKleen can be used at anytime throughout the plant's life and is an excellent final flush to help improve flavor. Its high concentration and low price make FloraKleen the economical choice for maintaining your plants in both hydroponic and soil based environments.



#### **FLORASHIELD®**

Maintain healthy roots without resorting to harsh toxic chemicals. FloraShield's unique combination of compounds can thoroughly rinse systems and plants during all phases of growth. Growers across the globe have attested to FloraShield's ability to solve root problems.

*Not to be used with SubCulture*



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