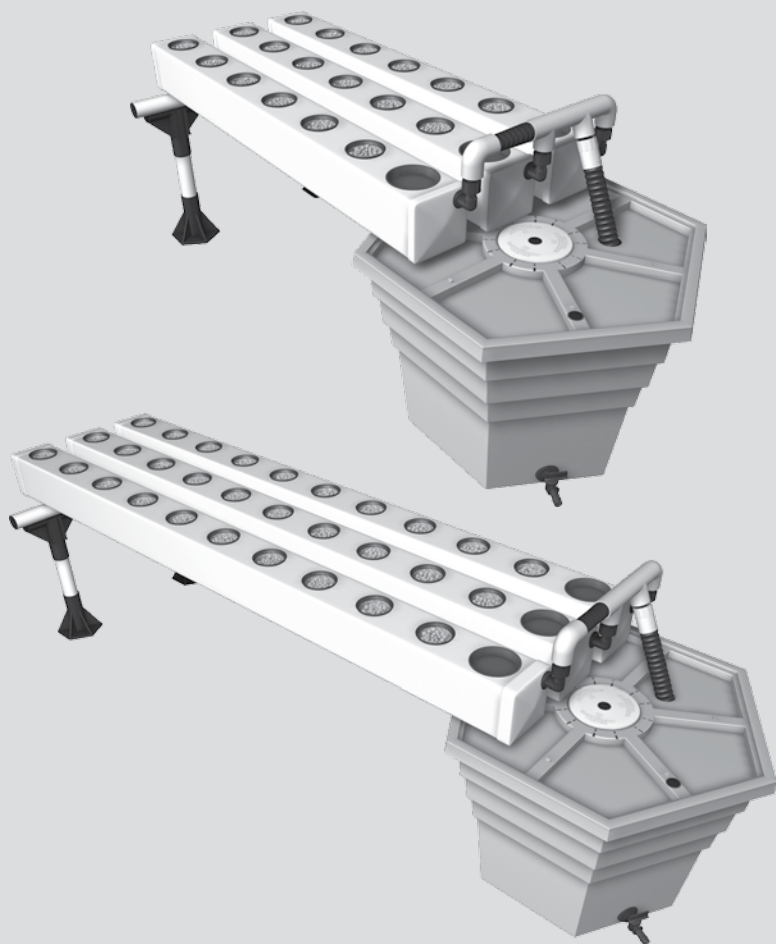


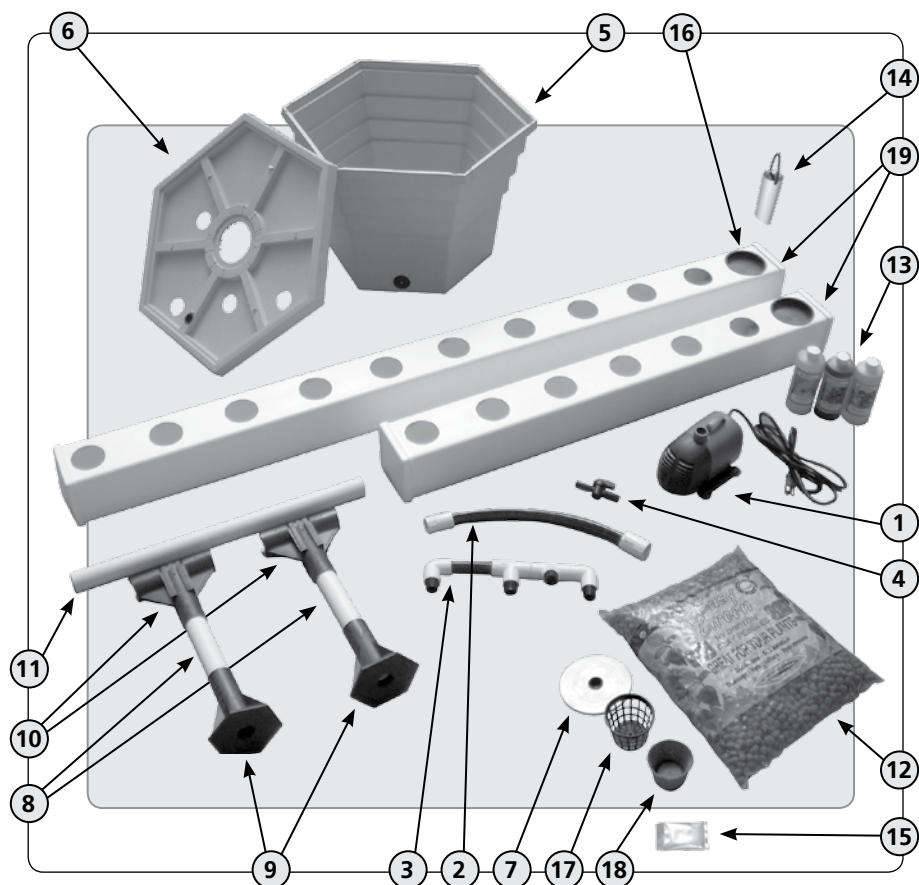
GENERAL HYDROPONICS®

Aeroflo²®

18 & 30

Assembly Guide





AeroFlo² 18 & 30 PARTS:

*assembled dimensions: AF18 - 5'4L X 23"W X 22"H
AF30 - 7'6"L X 23"W X 22"H*

Parts Box:

- 1: AF18= WaterPower Pump 85
AF30= WaterPower Pump 120
- 2: Pump line
- 3: Manifold
- 4: Drain Valve
- 5: Reservoir 17 gallon
- 6: Reservoir Lid
- 7: Hatch Cover
- 8: SnapStand Support Legs, 2ea
- 9: SnapStand Base, 2ea
- 10: SnapStand Cross Fitting, 2 ea
- 11: SnapStand Cross Support
- 12: Clay Pebbles 9 L
- 13: FloraSeries Nutrients

Chambers Box:

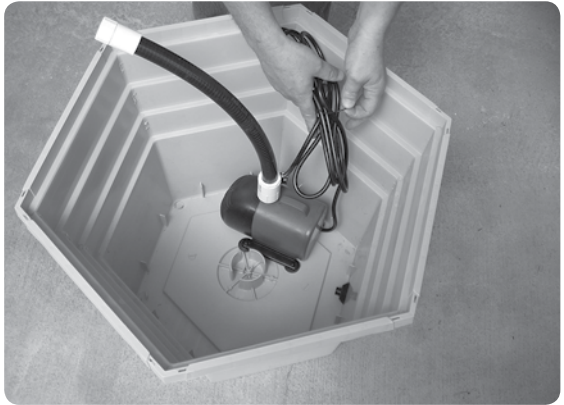
- 14: Drain Level Tube (DLT)
- 15: DLT Lubricant
- 16: DLT 4" Covers
- 17: Net Pots 3" (18 or 30)
- 18: CocoTek Liners 3" (18 or 30)
- 19: Growing Chambers (4' or 6')

STEP 1

Insert the **Drain Valve** into the **Reservoir** grommet while supporting the grommet from the inside.

**STEP 2**

Connect the **Pumpline** to the **Pump** leaving the **Swivel Fitting** to attach to the **Manifold**.

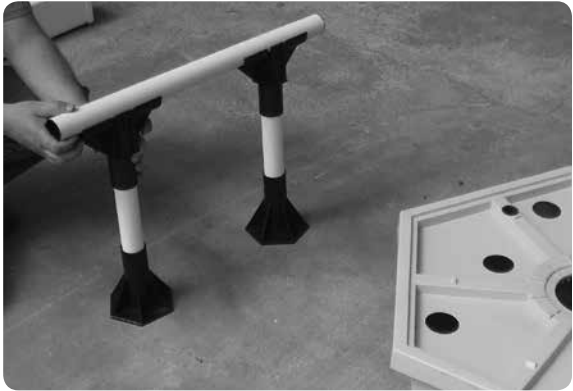
**STEP 3**

Place the **Pump** assembly into the **Reservoir** so the **Pumpline** emerges through the **Reservoir Lid**.



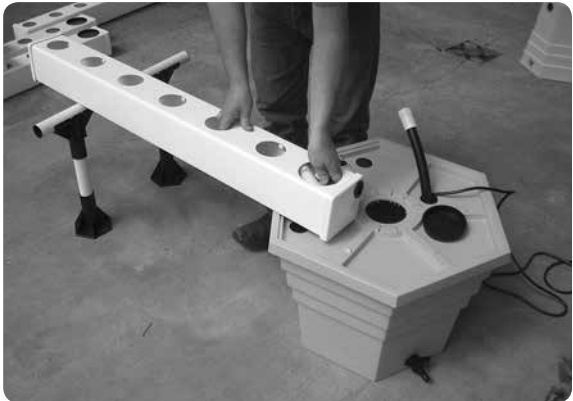
STEP 4

Slide the two **Support Legs** into the **SnapStand Bases** and the **Snapstand Cross Fittings**. Snap the **Cross Support** into the **SnapStand Cross Fittings**.



STEP 5

Remove the **Sprayline**, **DLT**, **Net Pots** and **CocoTek Liners** from each of the **Growing Chambers** and place the **Growing Chambers** on the **Support Stand** and **Reservoir**.



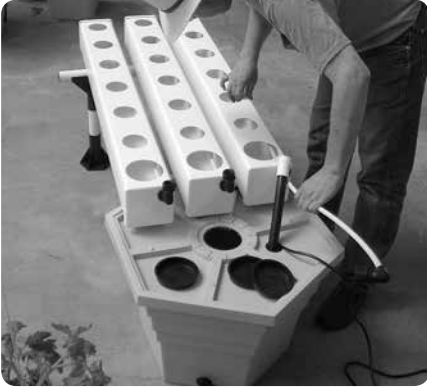
STEP 6

Lubricate the end of the **DLT** with the **Lubricant** provided and insert into the **Growing Chamber** drain hole and align with the holes in the **Reservoir Lid** for each **Growing Chamber**. Adjust water level in **Growing Chamber** by raising or lowering the **DLT**.



STEP 7

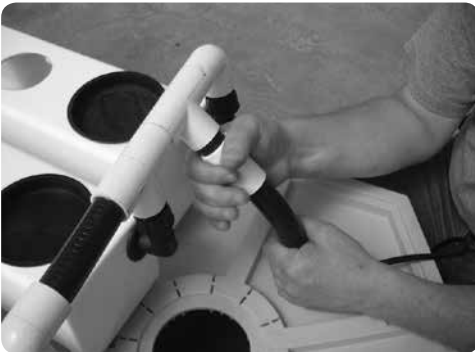
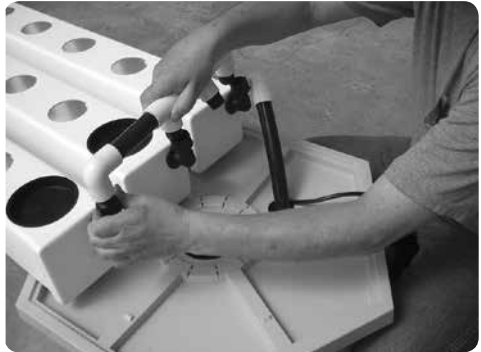
Setup the rest of the **Growing Chambers** and install the **Spraylines** by following the directions provided with the **Spraylines**.

**STEP 8**

The level of the water in the **Growing Chamber** is controlled by the height of the **DLT**. Keep the **DLT** access covered with the **DLT Cover**.

**STEP 9**

Attach each of the **Spraylines** to the **Manifold** and then the **Flexible Pumpline** to the **Manifold**. Make sure there is a rubber gasket in the **Sprayline** fitting and **DO NOT OVER TIGHTEN**. Cover the inspection hole with the **Hatch Cover**



STEP 10

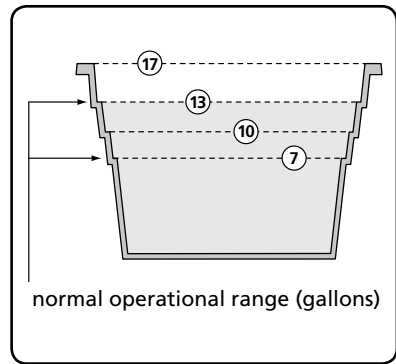
Place the **Net Pots** with the **CocoTek Liners** into the growing sites and use the **Clay Pebbles** to support seedling plants. Always rinse the **Clay Pebbles** before use and see the Helpful Guidelines for planting and cleaning the system.



GH HELPFUL GUIDELINES

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 overfilling 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.

AeroFlo ² system	Reservoir capacity	Each Chamber		Total Water*	
		low level	high level	low level	high level
gallons					
AeroFlo ² 18	13	0.6	2.4	15	20
AeroFlo ² 30	13	1.0	4.0	16	25

* 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. 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, (soil may contain diseased organisms that proliferate in the rich hydroponic solution), we have been very successful in implementing, particularly with culinary herbs and encourage you to try it. You can avoid these problems by starting plants from cuttings in one of our RainForest™ Systems or RapidRooters™.

PLACEMENT

Abundant light, proper temperature and adequate ventilation are crucial for fast growth, healthy plants and higher yields. Place the AeroFlo² system in a warm, well-lit, well-ventilated location, such as an outdoor garden, sunlit window, patio or greenhouse. Keep your AeroFlo² 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 AeroFlo2 systems on a timer to save electricity. The AeroFlo2 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 AeroFlo2.

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.

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PO Box 1576, Sebastopol, CA 95473, USA

707-824-9376 Monday through Friday 9am to 4pm PST