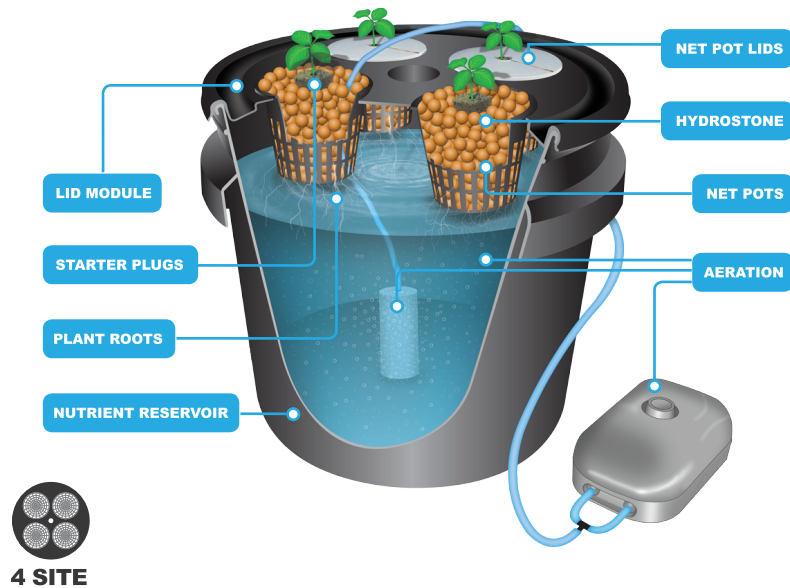


bubble four-banger



HYDROPONIC TIPS

1. Keeping PH in check is very important. Most nutrient companies recommend running their nutrients between 5.5-6.0 PH. Most of these companies have easy to follow feed charts and tips on their websites.
2. Change the water at least every 2 weeks. This will help keep the water from growing bad pathogens in it. Plants sometimes use some chemicals faster than others which will eventually throw off the balanced diet they have been being fed.
3. In this 2 week period the water level will drop in the bucket. Topping off with plain water is recommended.
4. In between cycles it is important to clean/sterilize hydroponic components. We recommend using hydrogen peroxide.
5. Water over 75 degrees Fahrenheit holds less oxygen, which creates an excellent breeding ground for Pythium also known as root rot. Keeping water temperature between 68-75 degrees is optimal for healthy roots.



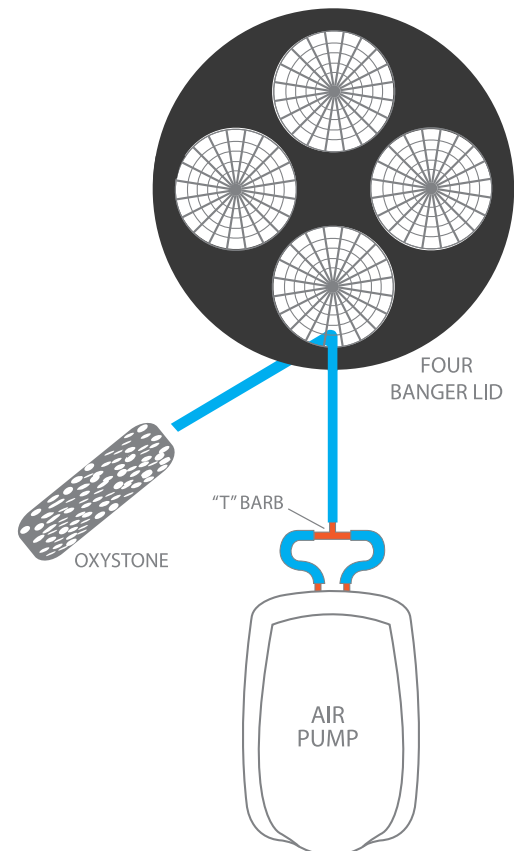
PARTS LIST

Part Description	Qty.	Part Description	Qty.
A 4 Site Lid Module	1	F .8 Liter Bag of Hydrostone	1
B 3.5 Gallon Bucket	1	G 4" Oxy Stone	1
C 3" Net Pots	4	H 1/4" Barbed T	1
D 3" Net Pot Lids	4	I 4ft 1/4" Air Tubing	1
E Starter Plugs	4	J Dual Outlet Air Pump	1



FOUR BANGER DWC ASSEMBLY

- Step 1:** Check the parts list to ensure that everything is included.
- Step 2:** Cut 2 – 3" pieces of the air tubing and attach them to the connectors on the front of the air pump.
- Step 3:** Attach the other ends to the 1/4" barbed T connector.
- Step 4:** Lay the air stone in the bottom of the bucket and attach the remainder of the blue tubing to it.
- Step 5:** Run the blue tubing through the bottom of the lid and connect it to the last barb on the T.
- Step 6:** Fill the bucket with 3.25 gallons of water and mix in your favorite hydroponic plant nutrients. Water level should be about 2"-3" below the brim of the bucket.
- Step 7:** Place the lid on top and insert the 3" net pots.
- Step 8:** If growing from seed insert seed into starter plug, put a small amount of hydrostone in each net pot, place starter plugs in net pots, and surround with remaining hydrostone.
- Step 9:** Carefully set the white 3" lids on top of each site. Finally turn on the air pump & begin growing.
- *Note** If starting from seeds make sure your water level touches the bottom of the starter plugs while the seeds are germinating.



SYSTEM SETUP DIAGRAM