

# Aeroponics

A photograph of an aeroponic system. Several green, leafy plants are growing vertically in a white, multi-tiered structure. The plants are densely packed and appear healthy. The background is a window with a view of the outdoors. The lighting is bright, likely from the window or an overhead light source.

By Folk's Butterfly Farm

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Aeroponics is the process of growing plants without soil using a grow medium and a pressurized spray system to deliver the nutrients.

Here is the equipment needed to build a unit in a 30 gallon tote and directions to complete the unit.

This unit will have 8 sites for plants. Drill the holes as shown below. Clean the holes with a sharp knife or sand paper.





Here is the lid ready with 8 sites.



Here are the fittings needed. 1 “T”, 2 End Caps, 1 Male Thread to Female Slip and 3 Clone Spinner Sprayers. You will also need about 3’ of pipe. All pipe is ½” PVC.



This design uses 8 3.75" netted pots.





You will need approximately 5 liters of hydroton. Enough to fill the 8 pots.



We use the ECO 396 pump to feed the system.





Assemble the fittings and pipe as shown (no glue). Drill holes for spinners centered between the holes on the top.



The top of the pipe should be about 4" from the lid.



Cut an outlet for the cord in one corner.





Cut a piece of plastic 4" wide and long enough to go around the lid.



Use hot glue to fasten the plastic inside the lid. This is a barrier to keep the spray dripping inside the tote.



Here is another view of the barrier. Color of plastic does not matter.





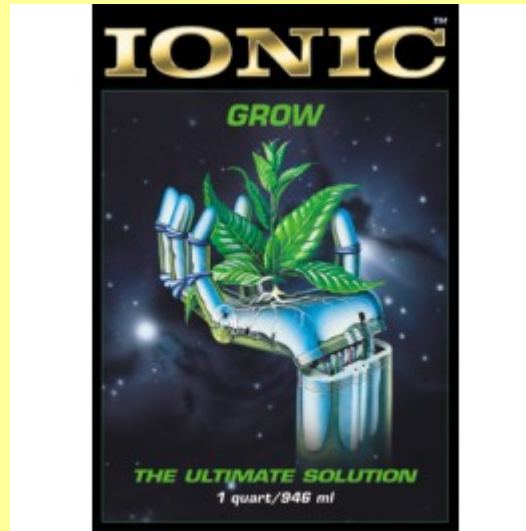
Assemble as shown below. Your aeroponics unit is ready to be filled and planted.



Fill pots with hydroton and place seedlings or cuttings in the hydroton.



We use Ionic nutrients to feed our plants.



If you are in the Berwick, PA area, Green Solutions on Orange Street will have what you will need.



This is 5 weeks growth

