**Component Bag**
- Dual Air Stone Assembly
- Air Pump
- Nutrients
- Starter Cubes
- Fill Hole Cap
- View/Drain Tube Assembly
- 2 Air Stones
- pH Test Kit

**Parts List**
- Garden Tray
- Cover
- Clay Pebble Growing Medium (included with some models)
- Six Planters

**Assembly**

**Installing your Air Pump and Air Stones**

1) Route the black air pump tubing through the cutout from inside the tray.

2) Connect the air pump tubing to the pump.

3) Carefully install the air pump by inserting the pump into the cavity (under the garden tray) as shown. Center the pump in the cavity, making sure that the tubing stays connected to the pump.

   *Note: PLACE THE AIR PUMP BENEATH THE GARDEN TRAY. DO NOT SUBMERGE THE PUMP*

4) Lay the air stone assembly into the tray as shown, sliding the tubing (not the air stones) into the hold down clips. The air stones should be positioned at the points shown in the illustration.

**Installing the View/Drain Tube**

(if not already installed)

1) Work the rubber grommet for the elbow into the hole gently, making sure that it is evenly seated on both sides (it may help to moisten the grommet and fitting to ease assembly).

2) Attach the blue tube to one end of elbow.

3) Gently rotate the elbow in through the grommet. Double check to make sure the grommet remains evenly seated on both sides to avoid leaking.

4) Insert the plug cap into tube after filling the reservoir.

5) Place the cover on the garden tray with the cover cap.
RINSING THE CLAY PEBBLES IN THE PLANTERS
(For model containing clay pebble growing media)
1) Pour the clay pebbles into the planters.
2) Run water through the pebbles to rinse out any sediment.
3) Set the planters into the Emily's Garden.

SPROUTING SEEDS & PLANTING SEEDLINGS
Prior to planting your seeds, soak the starter cubes in pH balanced water of 5.5 to 6.5 and completely saturate them for approximately 12 to 24 hours. This will reduce alkalinity and promote a hospitable environment for germination. Drain off the excess water and place one or two seeds directly into each starter cube.

Keep the starter cubes lightly moistened, but not over saturated, in a propagation tray with a humidity dome (ensure that the cubes are never sitting directly in stagnant water as this could hinder the germination process). When roots begin to show, you may plant your starter cubes. Place aggregate around and on top of the starter cube (cubes should be covered with only one layer of rock).

To plant a store bought seedling or cutting, place the plantlet (with roots intact), into the aggregate. Gently pour aggregate around the seedling or cutting to fill in the remaining space. Remove any excess medium from the root zone, while taking care not to damage the root mass, as this could induce shock.

NUTRIENT SOLUTION SCHEDULE
To initially fill your reservoir, premix about 6 gallons of nutrient solution at 1/2 to 1 teaspoon per gallon of water. Test pH value and adjust accordingly to measure between 5.5 and 6.5. Pour it down through the planters, filling the reservoir to the fill level notch. Place the cap in the view/drain tube.

Plug in your pump, and let it run 24 hours per day (switching the pump off could promote negative bacterial issues).

The nutrient solution should be checked every other day or so. Do not allow the nutrient solution to fall below level mark on reservoir.

To check the solution level, look at the view/drain tube. When adding nutrient solutions is necessary, premix at a 1/2 teaspoon per gallon, and adjust pH value of the reservoir accordingly after replenishment.

After one to two weeks, the reservoir should be drained and refilled with fresh nutrient solution (1 teaspoon per gallon). To drain the old solution, pull down the view/drain tube and remove the plug. Before refilling reservoir, flush clean water through the planters/system, and allow it to drain out. Replug the tube, and pour fresh mixed nutrient solution down through the planters.

Over time, your airstones may not bubble as vigorously due to sediment or film clogging the pores. To clean, remove the entire airstone assembly, disassemble and soak airstones (blue pieces only) in a 10% chlorine bleach solution (10% bleach, 90% water). Use a soft brush (such as a toothbrush) to gently scrub the airstones. After cleaning, rinse the airstones and ensure the bleach solution is fully rinsed clean from the stones.

If your plants are not looking well, you may need to check your pH (pH is the measure of how alkaline or acidic your solution is). Plants do best in this system when the pH is between 5.5 to 6.5. You can check your pH with the included pH test kit or a pH pen.

TEMPERATURE AND AIR CIRCULATION
Most plants prefer temperatures between 60 and 90 degrees, with 75-80 degrees being closer to optimum. Using a fan will keep temperatures down when it’s too hot, strengthen the plants, and supplement fresh air if you’re growing in an enclosed area. Don’t blow them over, but give them a gentle breeze to rejuvenate fresh air and promote circulation.

LIGHTING
If your growing season is short with cold temperatures, it’s best to give your plants an early start indoors under our full spectrum grow lights. Contact your local Hydrofarm retailer for additional guidelines for lighting larger areas. Make sure the walls of the growing area are white or are lined with a highly reflective material such as Mylar; this will help to distribute the light produced to more areas of the plants, increasing their productivity.

GUARANTEE
Your Emily's Garden components are guaranteed to work for the original owner for one year. This includes the pump, reservoir, planters and irrigation parts. Nutrients, starter cubes, and aggregate are not covered. Save your receipt — a copy is required for all warranty work. If you have a problem, please contact the place of purchase for return authorization and replacement.

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