The EcoGrower incorporates an air driven “spider” drip system with revolutionary General Hydroponics hexagonal reservoir. Features removable six-inch inserts, each accommodating a 6” net pot that can easily grow large plants.
ECOGROWER PARTS:

1: Reservoir 17 gallon
2: Reservoir Lid
3: Drain Level Tube
4: Spider Hub Assembly
5: Air Pump
6: Clear Air Line
7: 6” Lid Inserts (6)
8: Center Plate
9: Flora Series Nutrients (16oz.)
10: Clay Pebbles (9 Liter)
11: 6” Plastic Net Pots (6)
12: 6” CocoTek Liners (6)
13: 6” CocoTek Caps (6)
**STEP 1**
Position the hex lid on top of the hex reservoir. Place the inserts into the six sections.

**STEP 2**
Insert the six 6” net pots into the six holes in each of the inserts. The six CocoTek 6” liners are then put into the six net pots.

**STEP 3**
Rinse clay pebbles that came with the kit. Make sure not to fill above holes at top of the net pots where drip lines will feed through.
STEP 4
Slide down and remove zip tie from Spider Hub Assembly. The drip lines on the Spider Hub Assembly have “memory” and will stretch out to their proper position after assembly. Insert Spider Hub Assembly through center plate all the way to the top.

STEP 5
Lower the spider Hub Assembly with Center Plate into the opening of the Hex Lid. Insert the six drip lines through the holes in each 6” net pot.

STEP 6
Find the clear air line. Slide one end over the small 1/4” tube on the pumping column. Next, insert the other end into the air pump.
STEP 7
Carefully transplant the seedlings or cuttings into grow sites. To keep light out and algae growth down, CocoTek 6” cap may be placed on top of liner (optional).

STEP 8
Remove one of the grow sites for access, fill hex pot with 13 gallons of solution. Fill up to line on blue drain level tube.
FILLING
When filling the system with a nutrient solution it is best to mix the nutrients in a known volume of fresh water and pour into the controller until the system reaches the desired level.

PLANTING SEEDLINGS
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 EcoGrower. 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 disease organisms that proliferate in the rich hydroponic solution), we have been very successful, particularly with culinary herbs and encourage you to try it.
OPERATION
For moisture-loving plants, operate your EcoGrower pump continuously. Plants preferring drier conditions grow best when the pump runs for 1/2 hour on and 1 hour off during daylight hours; off at night (a simple timer will turn the pump on and off for you automatically). Use mild to normal strength nutrient solution and avoid strong or aggressive nutrient. As your plants consume nutrient solution, the level in the reservoir will drop. Top off with half strength solution or plain water (the pump is more efficient when the reservoir is full). It is necessary to change the water and nutrients every one to two weeks depending upon the size of your plants and their rate of growth; with bigger plants change more often. Simply empty the reservoir by rotating the blue drain/level tube 90 degrees so water drains on the ground, or indoors in a pail. When changing or topping off solution, pour directly over the Clay Pebbles (rather than into the reservoir itself) to flush out excess salts.

PREPARATION FOR REPLANTING
After harvesting and before replanting your EcoGrower, dismantle the system and clean all parts with hot water. Rinse clay pebbles in very hot water and soak overnight. It is a good idea to disassemble and wash the drip ring assembly and pumping tube from time to time in hot water.

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 EcoGrower.

If nutrient solution stops flowing from the drip tubes:
1. Check to ensure that pump is plugged in and reservoir is filled with nutrient solution.
2. Disconnect air line from the air inlet and check whether the air is coming through (put end under water and look for bubbles if you are not sure). No air flow could mean that the pump is broken and must be replaced or that the air line is loose or blocked. Try cutting an inch off each end of the line to provide a tighter fit.
3. Blow into the air inlet to check whether it is clogged, and rinse the pumping column in hot water. This type of clogging is usually an indication that you have hard water or too strong a nutrient solution.
4. Check whether the drip tubes are clogged. To clear, disassemble the spider assembly, rinse all the parts in hot water and reassemble.
FLORASHIELD®
Many growers report that using FloraShield in your RainForest may help prevent disease. They also report that FloraShield helps control mildew problems. Another popular use of FloraShield is to sterilize equipment and media. FloraShield can be used at any stage of growth.

FLORANOV A®
FloraNova represents a break-through in fertilizer technology. FloraNova gives users both the strength of a dry concentrate and the ease of a liquid. This unique formulation of highly purified minerals and natural additives combines the benefits of both organic and soilless gardening methods. Optimum nutrient absorption is aided by natural humic extracts for increased quality and superb yields. FloraNova is a one part formula that is pH stabilized and outstanding for all plant types.

POWERGROWER® 8 PACK
The new PowerGrower system can be arranged in an 8 pack configuration or as a 7 pack, where the hexagonal units are arranged in a “honeycomb” shape to easily fit under one light. The new 5/8” split tees connecting the individual units ensure uniform delivery of nutrient solution to every plant for explosive growth.

The PowerGrower Controller consists of an integrated 17 gallon reservoir and a 17 gallon controller unit. These containers can be very easily converted to a Rainforest system with the addition of a lid kit and Vortex sprayer for a complete modular system from propagation to mature plants.

Harness the Power!