

ASSEMBLY INSTRUCTIONS

IN-GROUND, SOLID BOTTOM, AND RING BOTTOM WIRE "HyDRIPonic TOWER

STEP-BY-STEP EASY ASSEMBLY VIDEO IS AT
WWW.VETERANSURBANFARMING.COM

1.0 FORMING TOWER FROM FLAT SHEET

NOTE: If Tower is provided prefinished, PART "R" is not included. NOTE: If Tower is provided pre-bent into cylinder shape it is substituted for PART "P".

COMPONENTS FOR THIS SECTION - PART "P" 1 flat WIRE MESH REBAR SHEET PART "Q" 10 WIRE TIES PART "R" 1 can SPRAY PAINT

GENERAL DIRECTIONS: 1.3 The TOWER is formed into a cylinder shape by bringing the long ends together Always wear sturdy gloves and eye protection when undertaking any project. Bending the cylinder to roundness is easiest when both long sides have a slight bend. MESH will bend into approximate cylinder by bringing ends together and using WIRE TIES.

Alternate Bend method : 1.1 Place 2x4 lengthwise 1 square in from long side under MESH. Place 1 foot on 2x4 and the other foot on mesh near end. Move along MESH pressing foot downward to slightly bend MESH. Move 2x4 to other side and repeat process. 1.2. Place WIRE TIE at each point where horizontal ring meets from top to bottom. Stand on 1 side of MESH. Grasp other side and bend it towards you 1.3 bringing sides together. 1.4 WIRE TIE tightly at each level making sure MESH wires match. Check for roundness and bend in places if needed. NOTE: Some models have prefinished MESH. For unfinished models Using PART "R" Spray all vertical and horizontal wires inside and outside. Let dry.

2.0 FORMING A SOLID BASE SUPPORT

NOTE: In-Ground Tower may also be mounted to solid base.

COMPONENTS FOR THIS SECTION - PART "N" 1 SOLID BASE FORM. PART "O" 1 bag SAKCRETE/QUIKCRETE or equivalent.

GENERAL DIRECTIONS: 2.1 Check formed TOWER to ensure it is level by placing on hard, flat surface. Adjust WIRE TIES as needed to ensure all horizontal wires levels match and the meeting point for each end of the MESH are joined solidly. The resulting base is made by filling the FORM with the mix colored (Whiteish/Gray). Consult your home improvement location service desk for available colorants made for concrete use. An optional round and square wood base is available. See website for details.

2.2 MIXING - Follow instructions on SAKCRETE/QUIKCRETE bag to ensure proper water to mix combination. Mix until excess water is absorbed. Break any lumps in mixture so it is smooth. : 2.3 Pour or use shovel to fill TOWER FORM to top. DO NOT OVER FILL. Tap top with shovel, flat surface material, or trowel to force aggregate away from surface. If excess water is pooled on surface, use toweling or paper towels to absorb. If needed, use a scrap piece of lumber or plastic to "massage" the mixture into a flat surface. Allow mix to stabilize but not to harden. Time for this will depend upon temperature and direct sunlight and amount of water in mix. : 2.4 Place tower in center of poured form filled with SAKCRETE/QUIKCRETE and allow to cure overnight. If strong wind is expected use string to tie to small ground stakes in 3 directions until cured. When dry, form may be left in place to protect surface where Tower is placed.

3.0 GROWTH TRAY SUPPORT COMPONENTS

COMPONENTS FOR THIS SECTION - PART "G" 3 GROWTH TRAY SUPPORT TRAYS. Provides support for GROWTH TRAY between bottom of GROWTH TRAY and WIRE SUPPORTS. PART "H" 9 WIRE GROWTH TRAY SUPPORT WIRES.

GENERAL DIRECTIONS: 3.1 The support system has a formed drop in the bend of WIRE SUPPORTS at each end. At each level, place 3 wires crossed between upright and center wires of the cylinder to support GROWTH TRAY. 3.2 WIRE SUPPORTS go between opposite sides of a vertical wire and horizontal wire of the cylinder. 3.3 Secure the horizontal end, then 3.4 attach to the opposite vertical wire of the cylinder. Check to ensure the pre-bent drop remains and adjust as needed. When correctly placed, where the wires cross provides a 1/2 inch space.

4.0 GROWTH TRAY AND "EZ-SYPHON" COMPONENTS

COMPONENTS FOR THIS SECTION-PART "A" 3 GROWTH TRAYS. PART "B" 3 "EZ-SYPHON" cup and top. PART "C" 3 DRAIN TUBE. PART "D" ADHESIVE PATCH. PART "E" 3 ADHESIVE SLEEVE. PART "G" 3 SUPPORT TRAY. PART "H" 9 SUPPORT WIRES.

GENERAL DIRECTIONS: 4.1 Place DRAIN TUBE through "EZ-SYPHON" CUP so it extends 1" upwards from bottom. 4.2 Wrap ADHESIVE SLEEVE around DRAIN TUBE inside CUP. 4.3 Place ADHESIVE PATCH on outside bottom of CUP around DRAIN TUBE. 4.4 Press CUP from inside to hold firmly in place in GROWTH TRAY.

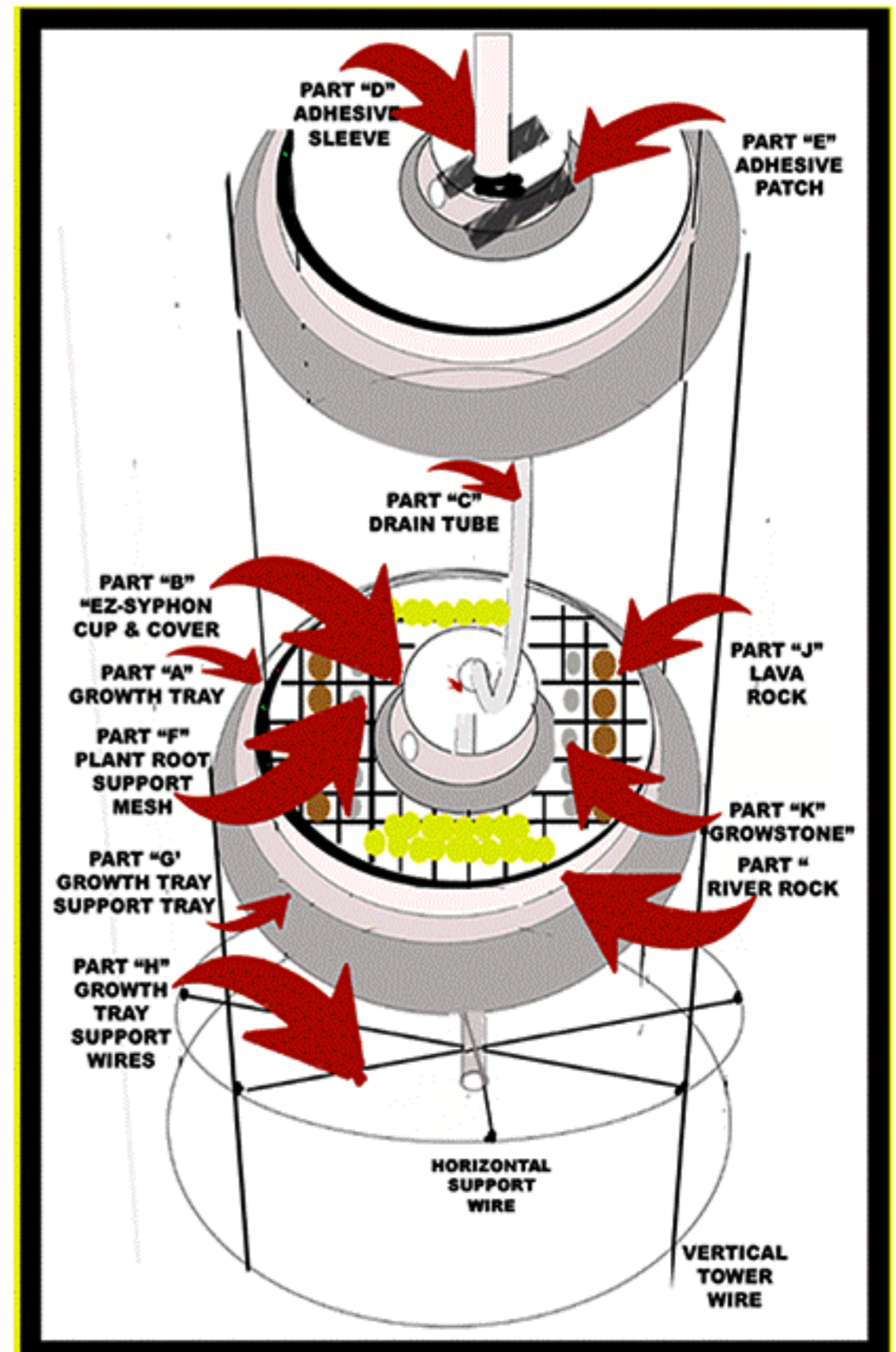
5.0 GROWTH TRAY AND "EZ-SYPHON" ASSEMBLY TO TOWER

COMPONENTS FOR THIS SECTION-In 4.0 you assembled PART "A" 3 GROWTH TRAYS. PART "B" 3 "EZ-SYPHON" cup. PART "C" 3 DRAIN TUBE. PART "D" ADHESIVE PATCH. PART "E" 3 ADHESIVE SLEEVE to make the sub-assembly in 4.0. Now you will add them to PART "G" SUPPORT TRAY and PART "H" SUPPORT WIRES.

GENERAL DIRECTIONS: Place DRAIN TUBE from "EZ-SYPHON" CUP and GROWTH TRAY through 5.1 PART "G" GROWTH TRAY SUPPORT and 5.2 insert at the center of crossed PART "H" SUPPORT WIRES and down to next lower level. 5.3 Insert DRAIN TUBE through hole in center of PART "B" "EZ-SYPHON" top. 5.4 Do not place top on cup.

COMPONENTS FOR THIS SECTION: PART "J" LAVA ROCK, PART "K" "GROWSTONE" CRUSHED GLASS, PART "L" "NUTRAADD" ENHANCED NUTRIENT, PART "F" PLANT ROOT SUPPORT MESH, PART "P" RIVER ROCK

GENERAL DIRECTIONS: 6.1 Each GROWTH TRAY contains layers of growing mediums. The bottom layer is enhanced with "NUTRAADD" NUTRIENT SOLUTION which will leach out as fluid passes, nurturing the plant root system. 6.2 Disperse the PART "J" LAVA ROCK around the GROWTH TRAY under the PLANT ROOT SUPPORT MESH to form the bottom layer. Place smaller pieces of PART "J" LAVA ROCK in the "EZ-SYPHON CUP". 6.3 Place the porous "GROWSTONE" "K" made from crushed glass in a layer on top of the LAVA ROCK but not at the outside edge of the MESH. "GROWSTONE" is buoyant and could lift the edge. Plant roots seek the nutrient which collects in the GROWTH TRAY up to the 1" level through the mesh providing stability. The 1" height of the tube in the "EZ-SYPHON" cup maintains the GROWTH TRAY nutrient fluid level. 6.4 The top layer above the MESH is a more robust surface RIVER ROCK. This provides an anchor for plant stems and root systems. If using seedlings instead of purchased plants, initial growth can be enhanced by placing a small amount of POTTING SOIL on top of the RIVER ROCK layer. Fluid bypass will reduce this soil when plant root systems depend upon the fluid nutrient level.



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