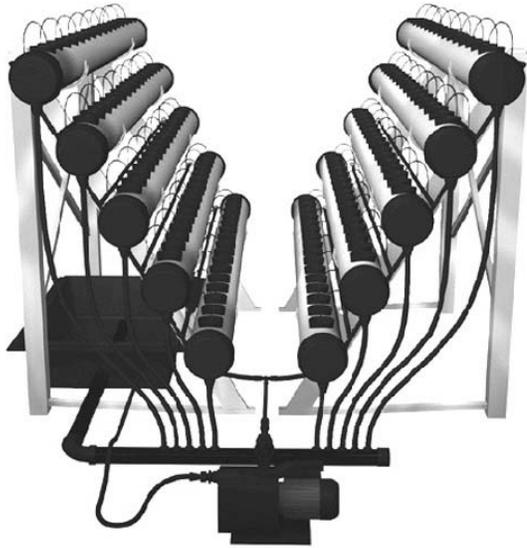


# Aeroponics

Aeroponics; The atomization of water droplets. Nutrient solution, water, is pumped under extreme pressure through a small opening creating even more pressure, forced up against a pan, shattering the water into very small droplets. The smaller the droplets the better. Once the water is atomized to basically a mist the Nutrient, Air and Water is absorbed by the plants much quicker. Because the plants roots are bathed in a nutrient



enriched water with plenty of oxygen they will not rot. It has always been a problem to get the right water to air mixture in soil. When you water soil the soil is usually soaked with nutrient solution, water, filling up all the air pockets under the surface of the soil. As the soil dries we get a better air to water mixture, but soon, within a few hours the air has been replaced by the water and the soil has started to become to dry and plant growth is slowing down. When the ideal mineral elements has been dissolved into the water with plenty of oxygen. Plants



do not have to expand their roots in search of these elements allowing them to concentrate on growth and flowering or fruit setting. Soil will only allow the right mixture to be available for a very short period before one of the other extremes has been reached. To wet or to dry. But with aeroponics that perfect condition can be achieved right from seedling or cutting to the end of a plants life.

Building your own Hydroponic System. All you need is a water proof container to hold the water, (nutrient solution in), with a lid that holes can be drilled into. And some type of mesh basket that can be inserted into hole. Fill the plastic container (reservoir) with water and plant food, leaving approximately 1 inch between the bottom of basket and top of nutrient solution. This 1 inch makes sure that the plants roots are suspended out of water. The roots that grow into the solution will get enough oxygen from the suspended roots and will not drown. Connect tubing to pump with drip lines connected to tubing to deliver nutrient solution to the growing medium. And presto you have an active growing system. Add light and seeds and watch your garden grow.



Plastic pails make great Hydroponic Systems use a 10 liter pail with holes drilled into bottom as a growing chamber and use a 20 liter pail as reservoir. Use plastic fittings to connect everything together and you have a great system for larger plants. Or visit your local Hydroponic retailer for all your needs!