

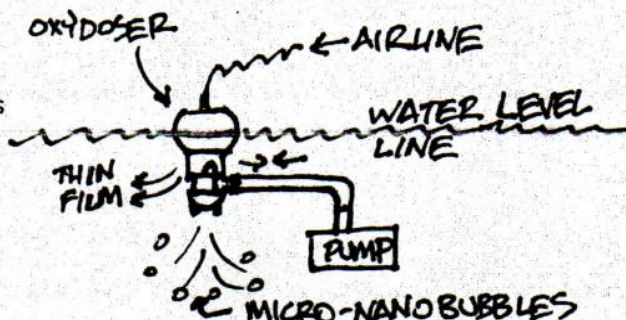
# OXYDOSER™

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Thank you for buying the **OxyDoser™ PUREair** Thin Film-Micro-Nano Bubble Generator. This device will replace your air pumps and air stones. They are inefficient and only moderately effective at oxygenating your fluids. The **OxyDoser™ PUREair** is convertible between **LOW** and **HIGH** Pressure as well as **Atmospheric Air** and **Compressed Oxygen (O<sub>2</sub>)**.

## LOW Pressure Installation: *micro-nano-thin film bubbles – fast and complete saturation*

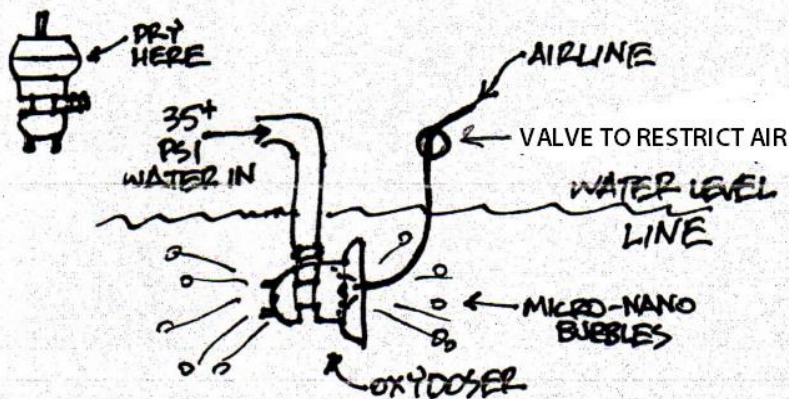
Simply plumb the OxyDoser™ in line with a 160 to 250 gph pump and attach a standard ¼" airline to the nozzle at the top. The other end of the air line should be positioned so it is open to the room air, no air pump is needed. We suggest a dedicated pump for the OxyDoser™ as the turbulence of the unit will dissipate and disperse the flow, allowing for mixing in your reservoir for or epicenter. Hydrofarm's Active Aqua AAPA250 works well.



The OxyDoser™ will work best when it sits with the air nozzle at the top and with the waterline in the middle of the large bulge at the top, with about 1" of the unit above water. It will float or it can be hard plumbed. It will still work if full submerged, just make sure the other end of your airline goes to a point at least a few inches above the water line. In LOW Pressure mode the OxyDoser™ PUREair will saturate 100-200 gallons of fluid using atmospheric air.

## HIGH Pressure Installation: *micro-nano bubbles with higher % of nano bubbles suspended for longer saturation*

Using a flat screwdriver, working your way around, carefully pry off the top half of the upper bulge. You should find 3 slots at the widest points in which to place the tip of the screwdriver and twist. Once loose, pull off the cap, including the short section of air hose. The unit should now be plumbed in line with a 35+ psi - 250+ gph water pump. This is typically done using ½" PVC tubing and fittings. The OxyDoser™ has a ½" male NPT thread. Attach a ¼" airline to the nozzle on one end and the other end of the air line should be positioned so it is open to the room air, no air pump is needed.



In HIGH Pressure mode the OxyDoser™ should be placed a few inches below the surface of the water, completely submerged, with the outlets running horizontally. General Hydroponic Eco Plus 230 pump or Lowes Utilitech 1-HP Stainless Steel Lawn Pump Item #: 43428 both work well. A short cycle timer can be used to cycle the pump on and off to OxyDose the water as needed to maintain saturation. In HIGH Pressure mode the OxyDoser™ PUREair will saturate 1000+ gallons of fluid using atmospheric air.

**Circulation:** Just as with air stones, additional pumps are often necessary to circulate your hydroponic fluid to the far ends of a Hydroponic system. Despite this, there is still fluid flow out of the unit and this will circulate the fluid in the container in which the generator is placed.

**Compressed Oxygen (O<sub>2</sub>):** **Compressed Oxygen** (100% O<sub>2</sub>) can be used in place of atmospheric air (20% O<sub>2</sub>). To do so simply hook your ¼" airline to a regulator and release 1/10 to 1/2 liter of O<sub>2</sub> per minute, while the pump is on. Adjust to find ideal flow rate, lower is typically better. Compressed Oxygen is typically used in HIGH Pressure mode to saturate massive amounts of fluid or super saturate the fluid. Your local gas supplier is the best source for this regulator. Dissolved Oxygen (DO) meters are also available.

Check out our website at [www.OxyDoser.com](http://www.OxyDoser.com), our YouTube videos or give us a call at (970) 901-5105 if you need any help or have any suggestions.