

Increase Dissolved Oxygen  
with  
***NO Moving Parts!***



High Volume Floating  
Aerator



**MCINTIRE MANAGEMENT GROUP**

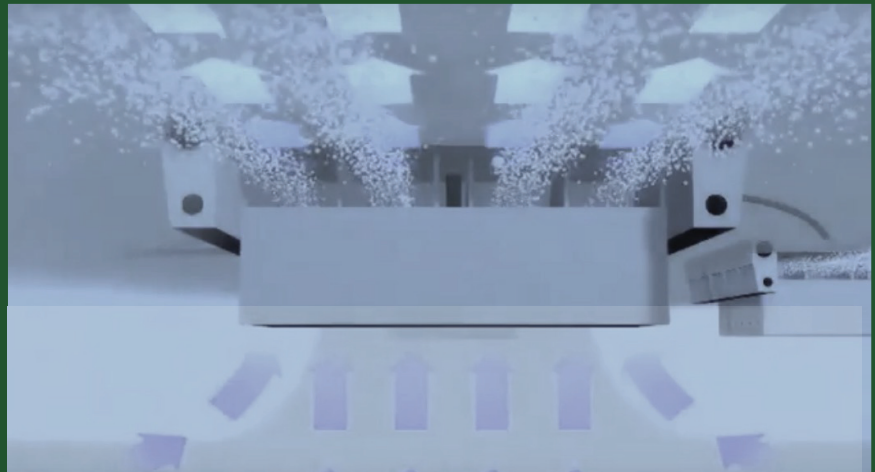
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The Patented DO2E High Volume State of the Art Aerator injects *high volume, low-pressure* air through a specially designed multi chambered air manifold located at the bottom of the unit. This unit creates a surface current up to 3 knots for a distance of up to 100 ft.

Using a unique combination of coarse air and fine air bubble aeration, we are able to move high volumes of water (up to 24.1 million gallons per day), while at the same time transferring high volumes of dissolved oxygen throughout the water column. The fine air bubbles maximize the oxygen transfer while the coarse air bubbles provide the ultimate velocity.

The unique combination of coarse and fine air bubbles released at a specific water depth within a confined space allows for a highly efficient aeration and mixing.

The unit can operate in as little as 4' of water and can draw from depths of up to 16' of water.



- Increases Dissolved Oxygen
- High Volume Water Flow
- Improves Worker Safety
- Reduces BOD & COD
- Reduces MOST Heavy Metals
- Reduces MOST VOC'S
- Reduces Ammonia
- Oxidizes Hydro Carbons
- Destratifies the Water Columns
- Reduces Energy Usage by Up To 80%
- Reduces Maintenance Costs by Up To 85%
- Reduces Sludge Build-Up Up To 75%
- Reduces Fecal Coli Form
- Reduces Pharmaceuticals
- Reduces H2S for Odor Control



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# Floating Aerator

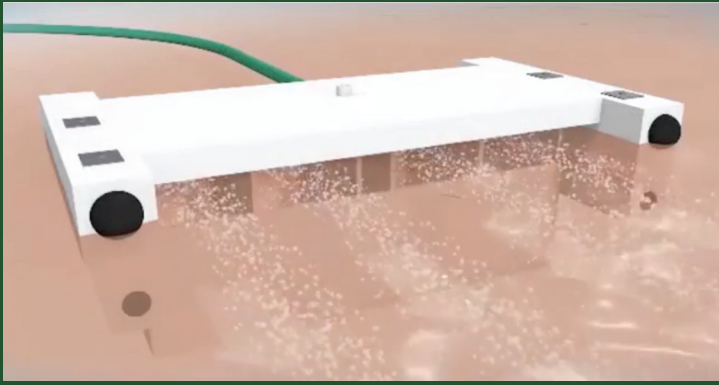
DO2E Aerator / Mixers are high-efficiency all welded, heavy-duty PVC devices. DO2E's patented products are designed to pull water from significant depths for aeration and mixing. By operating with low-pressure (<1.85 P.S.I.) high-volume airflow, these devices maximize energy efficiency. Our patented products are scalable and multi voltage.



DO2E utilizes the latest “Green Technology” and continues to set the standards in the Aeration industry. DO2E's products are designed to be as maintenance-free as possible. Construction from 100% heavy-duty PVC, allows our units to withstand harsh environments encountered in virtually every wastewater application. In most installations, DO2E's clients have realized maintenance cost reductions up to 95%. Our product line is the most energy efficient, maintenance friendly, and cost effective product introduced to the waste water market over the past 30 years.

From a safety standpoint, DO2E reduces employees' exposure to risks by utilizing two key components: land based blowers and no moving parts. Air supply is provided from a regenerative air blower placed at a remote location on land for easy access. With no electricity in or around the water and no moving parts, DO2E greatly reduces the worker's exposure to risks associated with standard aeration equipment used today. DO2E has designed and patented the safest and environmentally friendly aerator / mixer on the market.

A unique feature of the DO2E Aerator system is its' expandable capability for the delivery of various gaseous materials such as ozone, hybrid ozone with hydroxyl radicals, carbon dioxide, carbon monoxide, or other gases required to remediate various issues. This delivery method allows us to inject directly into the wastewater stream allowing for an effective and cost efficient means in order to address various issues, for example, hydrogen sulfide before it is released into the atmosphere.



All DO2E units are designed to handle several different tasks. The primary tasks and functions of the aerators/mixers are to aerate and mix the water column and distribute it from the device. Other tasks may be completed simultaneously including drawing from deep sludge deposits, breaking up sludge deposit solids into smaller particulates, de-stratifying the

water column, and aerating and/or depositing solids into designated locales.

”Ozone” can be added to the units to address both recalcitrant particulates and noxious microorganisms, including a wide variety of pathogens. “Ozone” also causes the oxidation of sulfides for enhanced odor-control.

All the DO2E Aerators draw water into the device by means of the Venturi effect. Water is then expelled through the upper chambers. Our patented aeration tubes are designed to deliver a unique combination of coarse, medium, and fine bubbles which when released at a specific depth, draws the water in through the bottom of the unit. Water is pulled upward being aerated all the while and redirected into a horizontal flow that is perpendicular to the input of the water column.



Picture: Wastewater Pond in Monroeville, AL separated with water curtain. Left side of pond remained untreated, right side of the pond was treated with High Volume Floating Aerators and Floating Mixers.