

# A Case for Airmax® Aeration

Building a Case for Airmax®

## Airmax® Aeration: An Easy Choice

- Quietest aeration system on the market.
- High-performance, self-weighted, virtually maintenance-free diffuser.
- Backed by a complete SATISFACTION GUARANTEE.
- Lowest cost of operation.
- Easy to install with virtually no assembly!
- 2-year compressor and electrical components warranty.
- 5-year diffuser warranty.
- Lifetime cabinet warranty
- Made in USA.



## 90% Reduction in Nutrients in 90 Days

A commercial pay-to-fish lake had heavy algae blooms and high levels of nutrients. The lake is 8 acres and 10 feet in depth. The lake is stocked with over 25,000 lbs of carp and 10,000 lbs of catfish. Fish are fed daily with a high protein fish food. We tested the water for phosphates and nitrogen and discovered the nutrients levels were high. We also tested dissolved oxygen (DO) to get a feel of oxygen levels at the bottom of the lake, biochemical oxygen demand (BOD) to see how much oxygen was needed to create an environment for aerobic bacteria and oxidation reduction potential (ORP) and found that there was limited oxygen supply towards the bottom of the lake and a very high BOD resulting in almost zero aerobic bacteria activity.

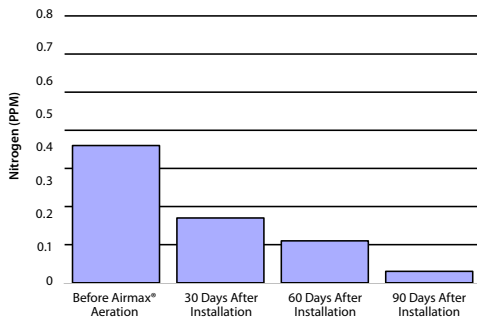
**PRESCRIPTION:** – We need to increase oxygen levels to promote healthy fish and aerobic bacterial activity as well as bring down nutrient levels. Based on the depth and size of the lake, we recommended TWO AM100, 6 plate, deep water aeration systems.

**RESULTS:** We tested DO, BOD, ORP, Nitrogen & Phosphates initially and once a month after for 3 months. DO increased and became saturated throughout the water column. BOD dropped near zero. BOD, nitrogen and phosphates dropped dramatically to almost zero in the first 90 days.

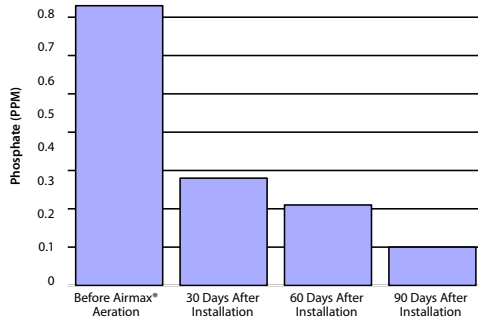


### Improved Water Clarity through Nutrient Reduction

Nitrogen Levels in the Water

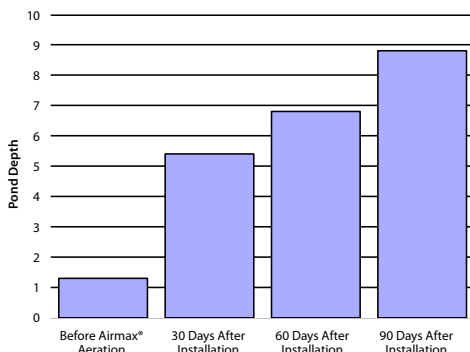


Phosphate Levels in the Water

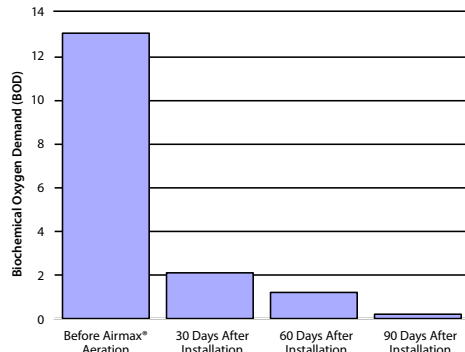


### Improved Aerobic Bacterial Activity and Healthier Fish through Oxygen Saturation

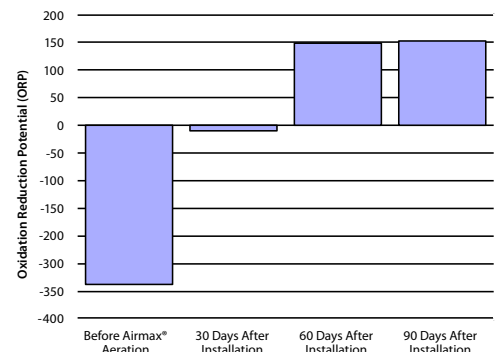
Dissolved Oxygen at 10' of Depth



Biochemical Oxygen Demand (BOD)



Oxidation Reduction Potential (ORP)



866-4-AIRMAX  
866.424.7629



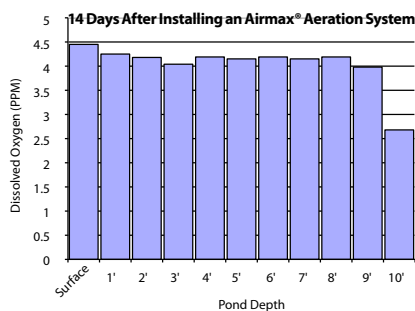
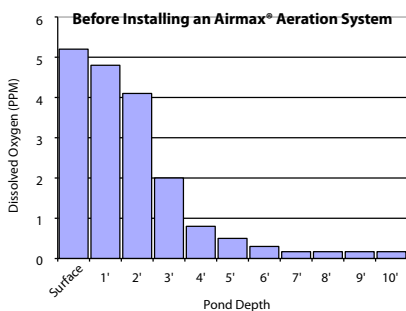
## Oxygen Saturation in 14 Days

Elongated 1/2 acre pond, 10' deep and the pond owners main concern was fish health and water clarity. With this in mind the oxygen and temperature levels were tested in 1' increments. This test showed that the pond was severely stratified. Just after 3', oxygen levels plummeted.

**PRESCRIPTION:** – Increase oxygen levels throughout the pond to promote healthy fish and water clarity. Due to the elongated pond, an AM60, two-plate, deep water aeration system.

**RESULTS:** Within 14 days of installation oxygen and water temperature were tested again. There was a dramatic change. Oxygen levels became nearly saturated and water temperatures became even from top to bottom ensuring complete circulation.

### Dissolved Oxygen by Depth



### Water Temperature by Depth

