

The Water Trifecta[®]



THE BASICS:

The Water Trifecta[®] combines three technologies that eliminate the primary causes of algae growth and poor water clarity. The components are ultrasound, beneficial bacteria, and oxygen via aeration. They work together to provide a healthy and biologically sound and systematic means to eliminate troublesome algae, remove foul odors, transform muck while providing a pleasant environment for you, your fish and aquatic wildlife.

OXYGEN via AERATION:

Water without sufficient oxygen soon produces stagnant foul odors and poor water clarity by promoting anaerobic bacterial action that is counterproductive to a healthy system. Most late summer algae blooms occur due to the anaerobic bacterial action that peaks at that time creating a rich soluble phosphate layer below the thermocline. Aeration disrupts this action by providing oxygen and water rotation from the bottom to the surface eliminating the thermocline. The oxygen helps beneficial aerobic bacteria to effectively work in the lower water levels. In unaerated systems the colder water below the thermocline has virtually no dissolved oxygen, so fish cannot live there either. Pumping air to the bottom through fine bubble diffusers creates lift and mixes lower water upwards to the surface. As anaerobic action is replaced with aerobic action, phosphate production from the sediment is reduced. The mixing also disrupts the algae day to night migration and keeps them distributed through the water column rather than collecting at the surface again disturbing their growth rates. The living space for your fish increases and they are more active and productive.



AlgaeControl.US LLC



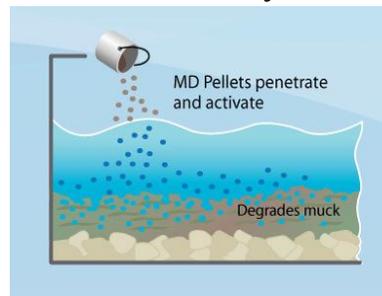
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1-888-254-2387 (1-888-ALGAE-US)

Located in the Charleston, SC area.

BACTERIAL BIOAUGMENTATION:

Beneficial bacteria are used to accelerate the biological breakdown of organic matter. Certain strains have the ability to solubilize and then resolidify



crystalline forms of calcium phosphate known as apatite. This works to take soluble phosphates out of the water column and turn them into solids where algae cannot

absorb them. As these bacteria consume organics carbon dioxide is produced to remove the carbon biomass from the pond. This reduces soft mucky bottom material and also removes the phosphate repository that it holds. Nuisance plant and macroalgae that grow on the bottom also will be limited.

ULTRASONIC ALGAE CONTROL

Discovered initially in the 1920's, this technology has now moved into 21'st century of viable algae control options. Using a piezo element that acts like an under

*Quattro-DB[®]
by
Hydro BioScience[®]



*US Patented

water speaker, ultrasonic sound waves critically resonate targeted structures in algal cells. This action causes some types to die directly and other types to lose their ability to float taking them to the bottom where out of light they die. This

method is the preferred non-chemical way to control algae. On water structures close to the device, biofilm slime is prevented to keep your water fixtures and walls **trouble free**.

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