

EMOH™ FOR Pond Remediation

WHAT IS EMOH™?

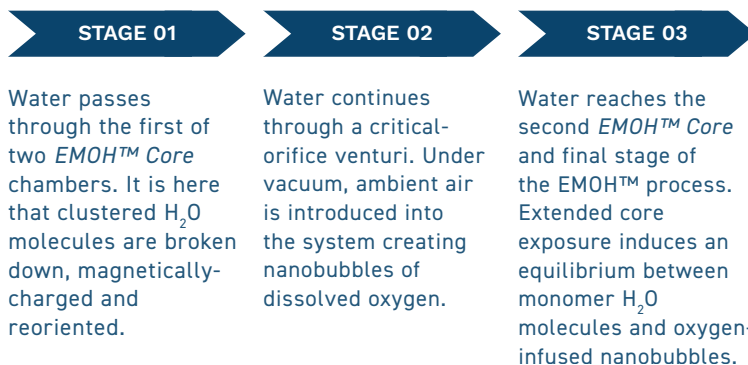
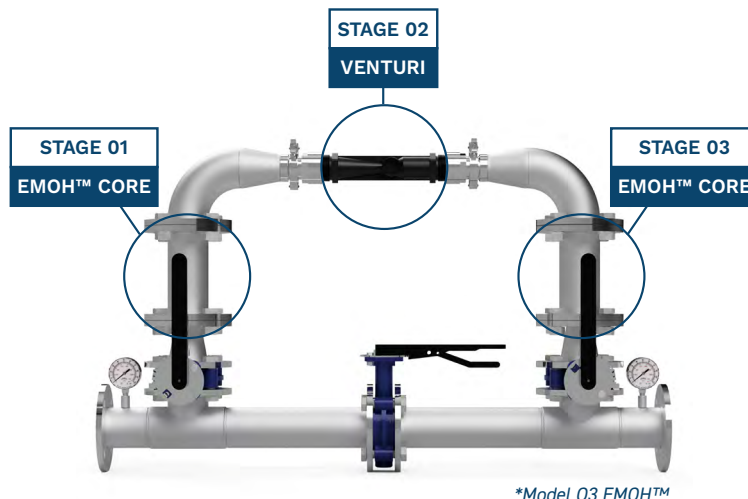
Electron
Magnetic
Oxxygen
Hydrogen

EMOH™ is Aequion's proprietary water system. It is comprised of dual treatment chambers (EMOH™ Cores) and a specialized venturi. Each chamber applies a powerful magnetic field that diminishes hydrogen-bonding energy while increasing the rate of ion exchange, allowing the formation of monomeric water molecules with greatly improved mobility. The venturi effectively increases dissolved oxygen levels.

No chemical additives are ever used nor necessary.



ELIMINATE NOXIOUS ODOR(S)



THE POWER OF EMOH™ TECHNOLOGY

- Eliminates noxious odor(s)
- Eradicates algae and prevents future blooms
- Minimizes sludge layer and prevents buildup
- Reduces the production of methane (CH₄) and ammonia (NH₄)
- Significantly increases dissolved oxygen (DO)
- Improves irrigation water
- Reduces mineral scaling and corrosion
- Safe for fish and other wildlife

CONVERSION FROM ANAEROBIC TO AEROBIC

EMOH™ technology has been studied and proven effective in municipal- and process-pond applications for addressing sludge, algae, methane (CH₄) and ammonia (NH₄) emissions, as well as associated odor(s).

This begins first and foremost with anaerobic to aerobic conversion, where EMOH-treated water is supersaturated with dissolved oxygen and local (aerobic) organisms are activated. This induces aerobic digestion, a considerably-faster method of eliminating organic matter.

“Aerobic bacteria are far more efficient at consuming organics, and EMOH™ helps add the oxygen they need, so organics diminish at a much higher rate than they would naturally. This is why flow-through systems can use EMOH™ as well as stationary water bodies. The bacterial activity extends to both suspended and deposited organics. A new, more aerobic equilibrium is established with EMOH™ that is more efficient than the natural system.” – Fred Bloetscher, Ph.D, Professor at Florida Atlantic University (FAU)

Since EMOH™ water treatment systems are a safe, yet powerful, mechanical driver for electromagnetic hydrolysis, no chemicals are ever used, dead biomass is not a concern and physical scraping is often extraneous.

ERADICATION OF ALGAE AND REDUCTION OF SLUDGE

EMOH™ water treatment systems eradicate surface algal blooms as well as subsurface algae.

EMOH™ technology reduces, if not eliminates, the detrital layer of pond water while preventing future sludge accumulation. EMOH™ water treatment systems will keep up with the demands caused by nutrient-loading from runoff and warmer surface temperatures – a fact which makes the technology a natural solution for eutrophication.

ELIMINATION OF ODOR(S) AND GREENHOUSE GAS EMISSIONS

Noxious odor(s), methane and ammonia off-gassing are the byproducts of sludge buildup and anaerobic digestion. EMOH™ extinguishes odor(s) and ceases the production of methane and ammonia gases by minimizing sludge and actuating aerobic digestion.

IMPROVEMENT OF IRRIGATION WATER

EMOH™ technology breaks down water clusters on a molecular scale; this decreases the total surface tension of EMOH-treated water and increases the flow of nutrients.

Additionally, EMOH™ water treatment systems introduce high concentrations of dissolved oxygen that stay in suspension and do not immediately bubble off.

EMOH™ technology also produces trace amounts of hydrogen peroxide (H₂O₂), between 0.9 and 1.5%, that is safe for fish, yet effective in minimizing mineral scaling and corrosion in irrigation lines and equipment.

AEQUION SERVICES



Evaluation, Design
And Engineering



Lab Analysis



Maintenance
And Repair



Remote Monitoring

MANUFACTURER'S WARRANTY



Aequion provides customers a two-year manufacturer's warranty on all of its products.

SPEAK TO AN AEQUION TEAM MEMBER TODAY

We are here to help:

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Aequion's water experts are dedicated to answering questions and providing an overall positive support experience.

