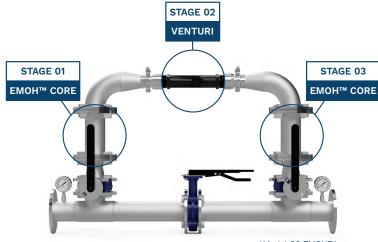
### WHAT IS EMOH™?

# EWOH FOR Dairies

# REDUCE METHANE EMISSIONS



\*Model 03 EM0H™







### STAGE 01

Water passes through the first of two  $EMOH^{TM}$  Core chambers. It is here that clustered  $\rm H_2O$  molecules are broken down, magnetically-charged and reoriented.

### STAGE 02

Water continues through a criticalorifice venturi. Under vacuum, ambient air is introduced into the system creating nanobubbles of dissolved oxygen.

### STAGE 03

Water reaches the second  $EMOH^{TM}$  Core and final stage of the EMOH<sup>TM</sup> process. Extended core exposure induces an equilibrium between monomer  $H_2O$  molecules and oxygeninfused nanobubbles.

### THE POWER OF EMOH™ TECHNOLOGY

- Reduces Methane (CH<sub>4</sub>) emissions by over 75%
- Reduces lagoon sludge by over 70%
- Reduces the production of Ammonia (NH₄)
- Maximizes dissolved oxygen levels
- Induces anerobic-to-aerobic conversion
- Solves lagoon odor problem(s)
- Makes lagoon water safe for irrigation
- Eradicates algae providing visibly cleaner lanes
- Improves overall hoof health

# E lectronM agneticO xygen

**H** ydrogen

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 hydrogenbonding 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.

### MODEL 06 D EMOH™

Aequion's **Model 06D EMOH**™ system for process lagoons incorporates a skid for flotation, a specialized pump and valves to handle continual solids.



### **ELIMINATION OF ODORS AND GREENHOUSE GAS EMISSIONS**

EMOH™ solves the odor equation in dairy lagoons by reducing the production of three major greenhouse gases (and primary noxious-odor contributors): Methane (CH₄), Ammonia (NH₄) and Hydrogen Sulfide (H₂S). EMOH™ accomplishes this through aerobic digestion of the sludge layer, which is often dense and high in effluent Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS) and Ammonia

### ANAEROBIC TO AEROBIC CONVERSION

The benefits of EMOH™ technology in lagoon applications are made possible through anaerobic (> 2 mg/L) to aerobic (< 2 mg/L) conversion. This is achieved through high volume oxidation in concert with local, activated organisms. That is to say that by super-saturating dissolved oxygen levels, EMOH™ effectively stimulates aerobic bacteria resulting in:

- the elimination of noxious odor emissions
- a decrease in Total Organic Carbon (TOC)
- a reduction in water hardness
- natural prevention of eutrophication
- diminished detrital layer thickness as benthic source of nutrient availability is better controlled

### **IMPROVED WATER QUALITY**

Increasing pressures from state agencies have created a challenging situation for many dairy businesses. Aequion's **Model 06 D EMOH™** supports farmers with their compliance efforts as well as state agencies with their environmental goals.



### **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:

Mon-Fri 8-5 PM (PT)

+1 (800) 385-0713 info@aequion.com

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



