



The AquaOx Advantage





Background

Agricultural water is water committed for use in the production of food, fiber and livestock. The use of agricultural water makes it possible to grow fruits and vegetables and raise livestock, which is a main part of our diet. Poor water quality affects the quality of food crops, leading to illness in those who consume them and directly impacts the health of animals. Aquaox provides environmentally biodegradable cleaning, sanitizing and disinfecting solutions to improve and enhance the performance of; crop production, protein production and food processing.



Improving Animal Health

Production animals acquire pathogenic organisms mostly by ingestion and/or inhalation. Preventing pathogens from reaching their target organs without the use of feed antibiotics will increase production and feed-conversion rates while decreasing the mortality rates.

Disinfecting water with Aquaox solutions and sanitizing the environment of the animal by regular fogging or misting with Aquaox solutions will help to eliminate these pathogens in the upper digestive tract.



Yield Enrichment

The effect of CO₂ enrichment on plant growth has been validated in hundreds of scientific experiments conducted worldwide. Increased CO₂ uptake delivers faster growth, and larger plants (leaves, branches, flowers, fruit), for greater yields.

Greenhouse operators all over the world are keen to inject extra CO₂ into the growing environment, but it has proven to be expensive, due in large part to the loss of valuable CO₂ gas into the outside environment. Treating irrigation water with Aquaox solutions not only suppresses fungal and bacterial growth in crops, but adds CO₂ into the plant, stimulates photosynthesis, which results in increased yields. The addition of HOCL in irrigation water increases wettability which increases absorption of CO₂ that leads to enhanced growth rates, reduced production cycles and greater crop yields within the same footprint.



Food safety

The Center for Disease Control and Prevention (CDC) estimates that there are over 76 million cases of foodborne illnesses each year. Roughly 1 in 6 Americans (or 48 million people) report being sick, 128,000 are hospitalized and 3,000 die from the foodborne contamination. The control of bacteria and other pathogens in food production is made more efficient by using the Aquaox Infection Control Systems to sanitize and disinfect food processing facilities. Disinfecting vegetable rinsing water prolongs shelf life and reduces residues.



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Electro chemically activated (ECA) Solutions

AQUAOX Systems have been designed and developed using an innovative and unique technology to effectively deliver electro chemically activated (ECA) Solutions. The applications for this technology are countless and include any processes that require sterilizing, disinfecting, cleaning, or water purification.

The Cleaning solution contains Sodium Hydroxide (NAOH) and dissolves protein, emulsifies oil and fats making it an effective general purpose cleaner.

The Sanitizing solution contains Hypochlorous Acid (HOCL) a non-corrosive fast acting general purpose sanitizer.

The Mixed Oxidant Water (MOW) solution contains a mixture of chlorine-oxygen compounds. The MOW kills all micro-organisms in water at a very fast rate and removes Biofilm deposited within the drinking water distribution system.

Applications Include:

- Disinfecting of drinking water.
- Elimination of BIOFILM
- CIP cleaner & sanitizer
- Evaporative cooling pad treatment & water conditioner
- Nutrient enhancement of water for plant and animal growth
- Fogging of plants and livestock areas to eliminate and control pathogens
- Disinfecting food and food contact surfaces.



BIOFILM REMOVAL

An initial treatment of undiluted MOW solution to a water system will eradicate all pathogens and Biofilm within a short period of time.

Continuous low doses of MOW not only clears the water of pathogens, but also clears the faucets and drinking dispensers where harmful pathogens begin their reverse migration back up into the piping. Importantly, the treatment will also eliminate all Biofilm in the piping systems that harbor the pathogens.

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- Aquaox solutions may be used to clean and sanitize food contact services
 - Aquaox solutions may be used to clean, disinfect and deodorize hard surfaces.



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Contact

17355 Hamlin Blvd.
Loxahatchee, FL 33470

www.aquaox.com
+1 (800)-760-7520

