BIOIONIX
a more perfect solution

Make Your Own Disinfection from Farm to Fork

Learn how to improve product quality, create a safer environment for employees, reuse process water and help the planet.

BIOIONIX
20 ANNIVERSARY

Join us on the path to zero chemicals

Understanding Chlorine

The power to make your own disinfectant.

BIOIONIX
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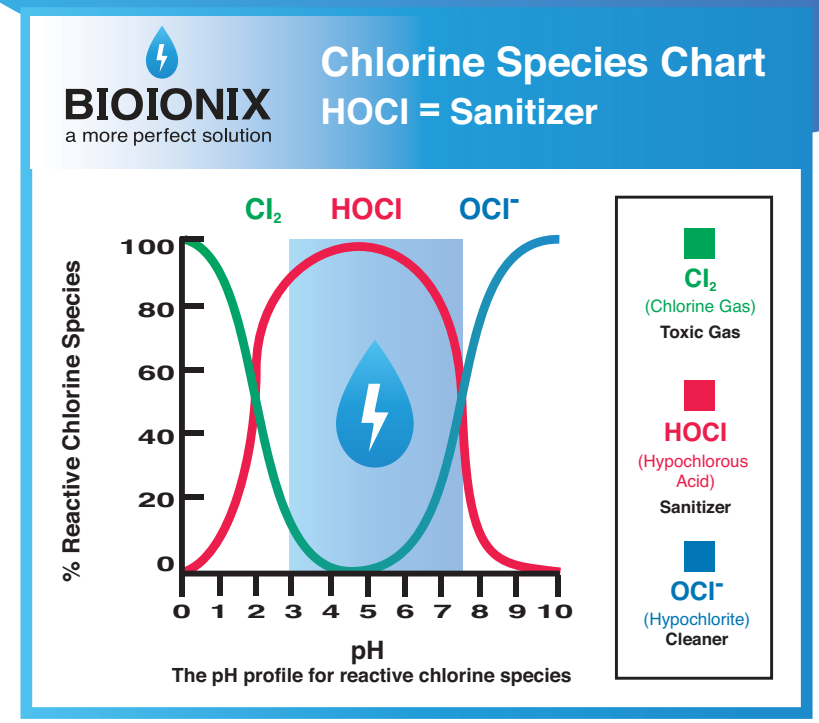
Bleach (hypochlorite) is misunderstood. Did you know that Bleach loses its disinfection power within 6 months?

- FDA lists hypochlorite as the #1 most recognized sanitizer.
- HOCl is THE sanitization power of bleach.
- BIOIONIX® focuses on the HOCl part of bleach, which is 100x more effective.

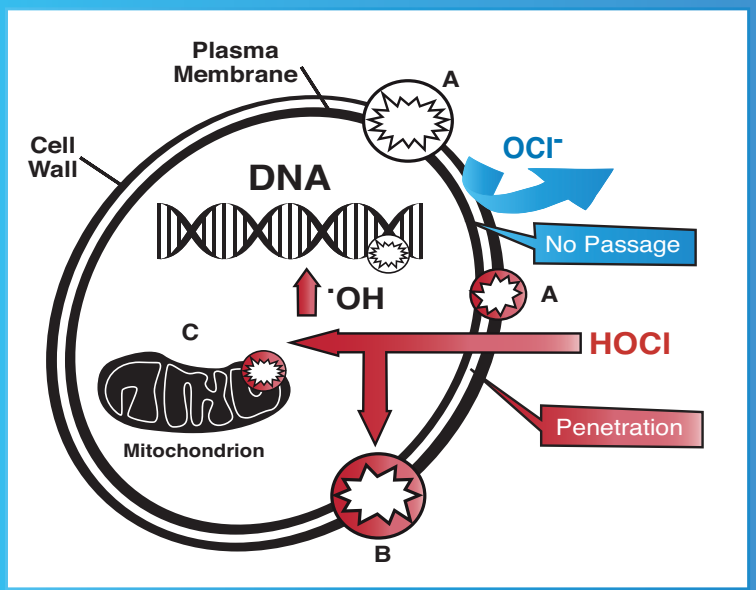
100X more effective than chlorine bleach

Non-Corrosive



BIOIONIX® is the ONLY industrial scale producer in the world.

Artificial Immune System



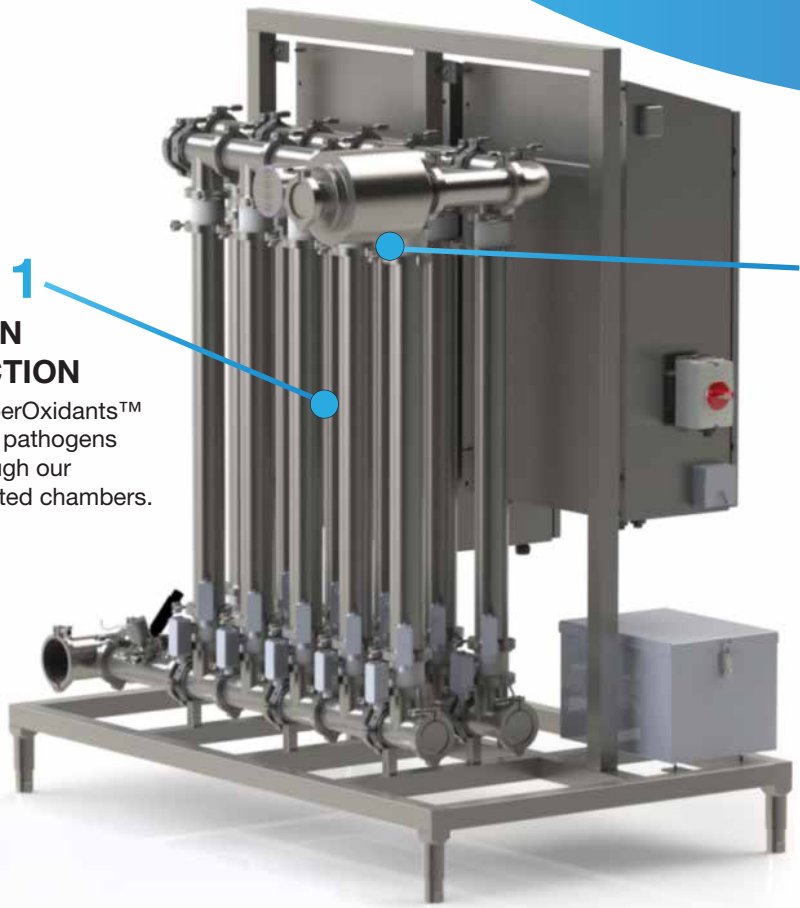
Our proven, approved, and patented technology uses non-chemical, natural SuperOxidants™ to disrupt and destroy the DNA and RNA of pathogens!

BIOIONIX™

BIOSAIF 24/7

3-Tier Solution

The BIOIONIX® three-tier technology acts as an artificial immune system that advances food safety.



Tier 1

PATHOGEN DESTRUCTION

BIOIONIX SuperOxidants™ safely destroy pathogens that flow through our first-tier patented chambers.

Tier 2

CONTINUOUS DISINFECTION

Release of an all natural, disinfection with controlled concentrations of hypochlorous acid (HOCl) circulates, providing continuous disinfecting properties that are 100 times stronger than bleach and safer to use and handle than toxic chemicals.

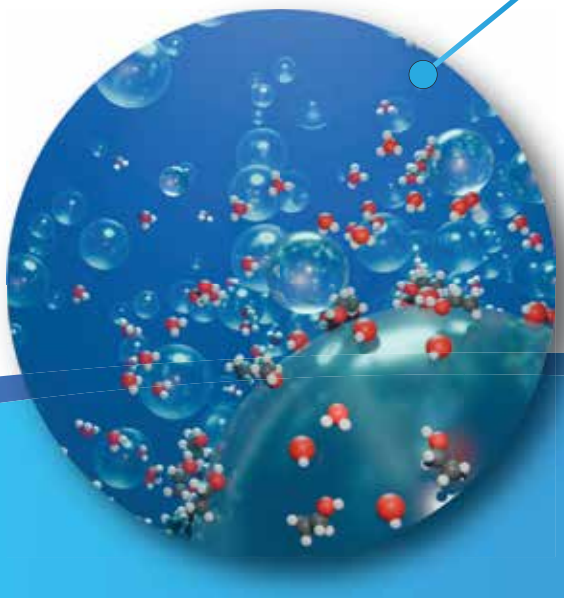
FDA

FCN #2198

Tier 3

NANOBUBBLES: SANITIZING WHILE CLEANING

Through the generation of activated water, bubbles with diameters on the nano- and micrometer scales are formed. These bubbles have been found to persist in solution for over 24 hours and possess both cleaning and sanitizing capabilities. Their charged surfaces promote electrostatic interactions with hydrophobic contaminants, such as fats, oils, and grease (FOG), allowing for the removal of these substances from surfaces. As the bubbles burst, they produce jets of extremely high pressure and temperature, effectively cleaning contact surfaces of organic matter, biofilms, and solids. The suspended solids are then lifted out of the solution by the bubbles, enabling easy removal. During their collapse, the bubbles also release hydroxyl radicals, resulting in powerful localized disinfection.



Supports 3 Requirements for water reuse:

1. Microbial kill
2. Reduced turbidity (electroflocculation)
3. Water reuse in same or earlier process

BIOIONIX™
BIOSAIF 24/7

Automation and Validation Reporting

BIOSAIF24/7 Software is the brains of the artificial immune system that keeps everything in balance and operating 24/7, providing data intelligence for food safety validation and sustainability reporting.

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PATH TO ZERO

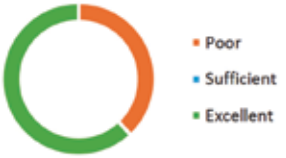
Client Partner	Trusted Partner
Location	City, State
Date	11/29/2024

Weekly Operation	
Operating Hours	120.0
Average Temperature (°F)	93.5
Average Flow Rate (GPM)	59.0
Average ORP (mV)	253.2
Average pH	8.26

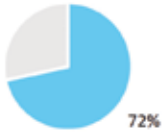
Weekly Savings	
Reconditioned Water (gal)	425,069
Estimated Equivalent Chemical Cost	$630.00
Estimated Energy Cost	$0.25
Energy Consumption (kWh)	4.219

Notes
NO FLAGS BIOIONIX System maintained production standards throughout working days. System down Thursday-Friday due to holiday break during non-production

Weekly Disinfection



Life Until Service



	Date	Operating Hours (hrs)	Avg. ORP (mV)	Avg. Flow Rate (GPM)	Avg. Temp (°F)	Avg. pH	Energy Consumed (kWh)	Recond. Water (gal)
Monday	11/25/24	24	757	95	102.51	5.66	1.62	136,493
Tuesday	11/26/24	24	758	100	101.34	5.92	1.37	144,540
Wednesday	11/27/24	24	756	100	102.29	5.93	1.23	144,036
Thursday	11/28/24	24	-384	0	82.48	11.58	0.00	-
Friday	11/29/24	24	-621	0	78.66	12.22	0.00	-