

Eco-Shield Water Poultry Applications



ECO-SHIELD CHEMICAL FREE WATER SANITATION

Eco-Shield is our new concept for building a fortress of safety around your products, your plant and staff and our innovative Chemical Free Water Sanitation System is a foundation of this.

Key Diagnostics believes that protecting the health and safety of everyone, including our planet, is paramount.

Our desire isn't just to provide substitutes but to find solutions that are greener and safer whilst providing scalable improvements.

Egg & Poultry Applications

- Drinking Water Treatment
- Spatial & Container Disinfection
- General Sanitation
- Egg Wash & Egg Decontamination
- Layerage & Coop Disinfection
- Surface & Spray Disinfection
- Chemical Replacement
- Avian Influenza Mitigation
- Biosecurity
- Multi-intervention Salmonella Reduction
- Plucker-fingers Disinfection
- Dip Tank Disinfection
- CIP Disinfection
- Immersion Bath Disinfection
- Spiral Chiller Disinfection



Poultry Applications - From the Farm to the Fork.

The use of hypochlorous acid in poultry production provides a safe, effective and sustainable solution for pathogen control. Its application throughout the production chain enhances bird health, biosecurity and product quality, while reducing the reliance on antibiotics and harmful chemicals. This results in higher efficiency, lower costs and safer poultry products for consumers.



Hatchery Stage

- Used as a non-corrosive disinfectant for hatchery equipment.
- Chemical free pathogen-free environment.
- HCOI can be safely ingested through drinking water by chicks, supporting their immune system and reducing mortality rates.
- Reducing the need for antibiotics, leading to healthier birds.
- Eliminates pathogens in wastewater treatment, making disposal safer.
- Removes odours and stains.
- Decontaminate egg surfaces for pathogen removal.



Egg Laying and Production (Including Pullets / Broilers)

- Fogging systems can control airborne pathogens and diseases like avian influenza on intake, internal and exhaust air.
- Safe to sanitise in the presence of birds.
- Sanitise cages, manure belts and shed without corroding equipment or using chemicals.
- Converts drinking water into a natural and safe immune-fighting water supply for birds to drink, reducing disease and mortality rates.
- Clean out biofilms in water lines and nipple drinkers.
- Reduces antibiotic use and promotes faster growth and yields.
- Egg washing effectively reduces Salmonella and other pathogens, including viruses, extending shelf life.



Transportation Vehicles for Animals

- Cleaning trucks, transport crates and other means to transport animals to and from farms.
- HOCl is a safe and efficient sanitiser for disease and pathogen control without the use of hazardous chemicals
- It is non-corrosive and safe for vehicle and vehicle operators.



Processing Plants

- Chemical free replacement for sanitisers, immersion, dip-tanks and spray applications for surfaces and product.
- Approved for direct contact with food.
- Eliminates corrosive chemicals during de-feathering.
- Extends shelf life by reducing bacterial loads, kills pathogens.
- Can be used for fogging to reduce cross-contamination.
- Reduces water usage by recycling water used in spin chillers.
- Recycles brine, reducing costs and down time.
- Treat and recycle waste water.
- Eliminates biofilms and surface contaminants in poultry production lines.