

# HP-UV Egg Sanitizer



The **HP-UV Egg Sanitizer** is a new technology that is changing the way people think about egg sanitation. This revolutionary process uses a combination of hydrogen peroxide and UV light exposure to eliminate all types of microorganisms found on eggshells.



## Why Sanitize Hatching Eggs

Eggshell surfaces are naturally contaminated with bacteria, fungi, molds and yeasts. In some cases, these microorganisms can penetrate the shell and cause hatchability or chick quality issues. Getting rid of these unwanted microorganisms before they penetrate the egg is important to improving hatchability and chick quality. Sanitization of hatching eggs using the HP-UV Egg Sanitizer has been scientifically proven to reduce the microbial load of the egg, resulting in improved overall hatchery sanitation and reducing the spread of pathogens in the poultry production system.



## How the Process Works

Eggs pass through a spray chamber where they are lightly misted with a dilute solution of hydrogen peroxide. Next, the eggs pass through a UV light chamber. As the UV light interacts with the hydrogen peroxide on the shell surface, the hydrogen peroxide molecule is split and hydroxyl radicals are generated. These hydroxyls immediately react with any organic material present on the eggshell surface, including the cellular structure of microorganisms. This disruption of their cellular structure kills the microorganism.



## Benefits of Sanitizing Hatching Eggs

Sanitizing eggs with the HP-UV Egg Sanitizer results in increased hatchability, improved chick quality at hatch, and decreased 7-day mortality, particularly with older breeder flocks where shell quality is reduced and contamination rates are increased. A reduction of unwanted microorganisms entering the hatchery on the eggs also results in an overall cleaner hatchery environment. Hatching more high quality chicks and improving overall hatchery cleanliness will result in greater profitability.

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## Specifications

### Description

The **HP-UV Egg Sanitizer** uses a combination of hydrogen peroxide and UV light exposure to eliminate all types of microorganisms found on eggshells.

### How To Use

- Plug into a 120V/40A GFI outlet.
- Connect water supply from reverse osmosis system.
- Fill concentrated hydrogen peroxide reservoir (30 - 35 percent solution suggested).
- Turn on UV lights and conveyor.
- Place eggs on in-feed side of machine.
- Eggs exit the machine in less than 30 seconds.

### Design Features

- Hydrogen peroxide sprayers are automatically controlled by a motion sensor for ease of operation and reduced spray usage.
- Optimal reverse osmosis water filtration system available.
- Automated mixing system to dilute concentrated hydrogen peroxide to the low concentration needed for spraying the eggs (no manual mixing of chemicals needed).
- Variable speed conveyor option available.
- Can treat up to 50,000 eggs per hour.
- All liquid waste (mostly water) from over spray is collected and easily disposed (no toxic chemical wastes).
- No chemical residues on eggs after they air dry.
- Automatic shut-off controls and indicator lights if hydrogen peroxide or water supply is interrupted.
- On-board in-line water heater keeps hydrogen peroxide spray at set temperature.
- Can treat eggs placed directly on the conveyor or eggs already in incubator egg flats (treatment on flats recommended).
- Machine can be sized to accommodate any size egg flat.
- Machine could be designed to fit in-line with automated egg packing equipment if needed.
- Machine mounted on casters for easy of movement.
- Easily operated by one person with minimal training.

### Safety

Hydrogen peroxide is corrosive. Minimal worker safety equipment is required. Safety glasses, chemical-resistant gloves and smocks (to prevent damage to clothing if hydrogen peroxide is spilled or splashed) are recommended.

### Maximum Benefits

The HP-UV Egg Sanitizer is not an egg washer. It is not designed to remove large amounts of organic matter adhering to eggs. Eggs must be reasonably clean for maximum microbial reduction.

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