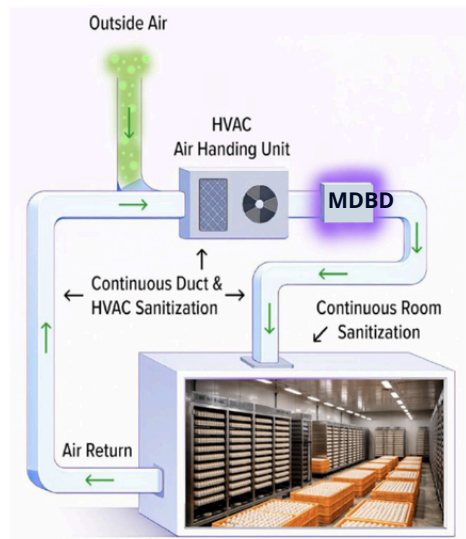




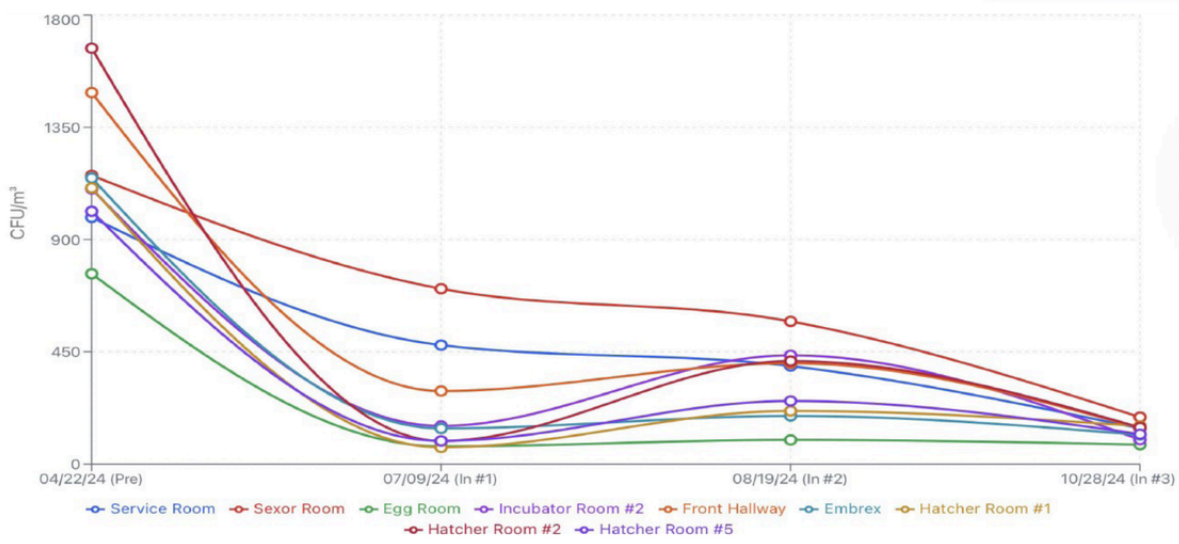
# SENTINEL

## Real world **benefits** for your facility

SENTINEL is an advanced cold plasma air and surface hygiene system for hatcheries and layer houses providing 24/7 control of mold, bacteria, virus, and VOCs, including ammonia — without the cost of chemicals. Exclusively available through TOMIGUNN in partnership with PathogenFocus, the SENTINEL harnesses Oxyion's proprietary Modulated Dielectric Barrier Discharge (MDBD) cold plasma technology to deliver continuous, automated airborne and surface bioburden control. Its use results in the following:



- Better chick quality
- More fertile eggs entering incubation
- Increased hatch rate
- Decreased mortality and umbilical contamination
- Cleaner cooling chambers, storage chambers, and cutting/de-boning rooms
- Enhanced hygiene for RTE and processing areas
- Biofilm control on coils and fins
- VOC control, including ammonia



**Major US Poultry Hatchery 2024**

Mean Average Bioburden Reduction: 88.4%

Mean Surface Reduction: 69.9%

Egg Room Surface Reduction: 81.8%

# A seamless enhancement for your facility

MDBD subjects indoor air to controlled electrical charges, creating highly reactive molecules, including H<sub>2</sub>O<sub>2</sub>, that disrupt the lipids, proteins, and RNA/DNA of viruses, bacteria, mold/fungi and also break down VOCs and odors.

MDBD provides a seamless and sustainable enhancement to your operations:

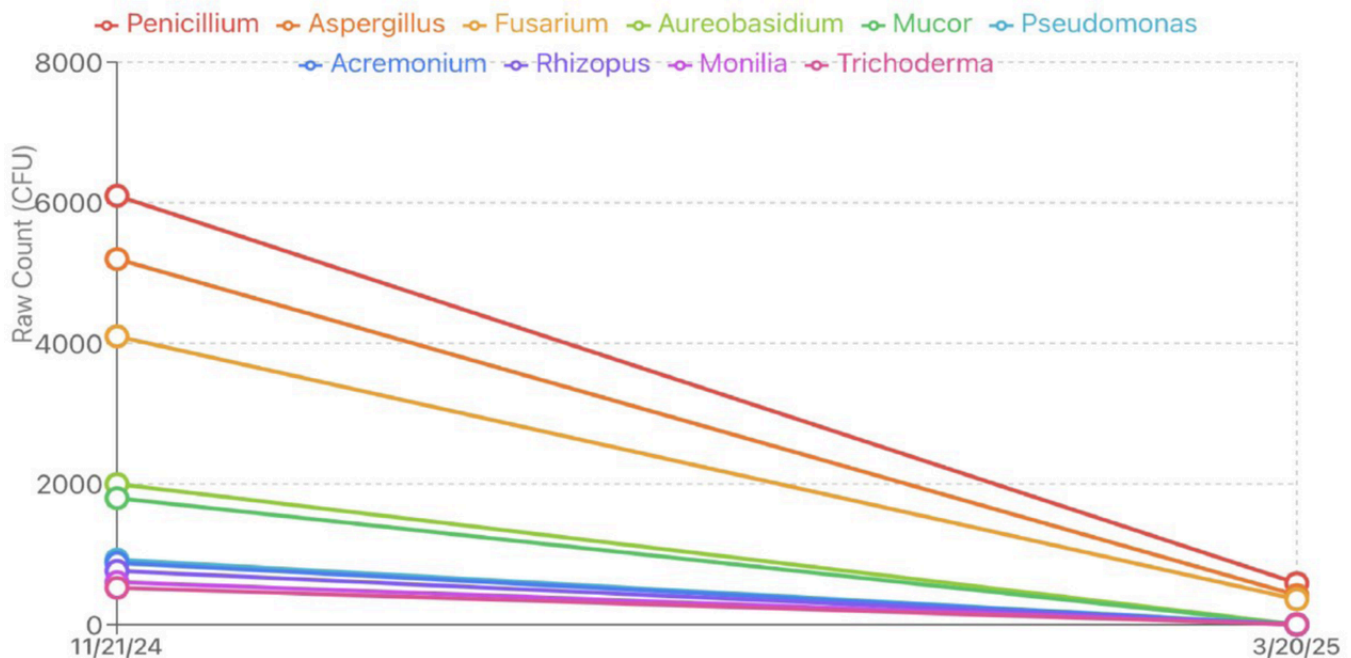
- Non-invasive installation treats everywhere air can reach
- No added labor or disruption to daily operations
- No added chemicals or residue
- For use in occupied spaces
- Wall-mount, portable, or HVAC-integrated
- Very low energy consumption

\*Certified Halal and USDA organic compliant\*



## Case Study: Major US Food Processor, 2025

Mean average bioburden reduction by species: 93.7%



**MDBD technology transforms air from a contamination pathway to an ever-active and ever-present line of defense. Our customers are achieving a new gold standard for biosecurity and facility hygiene.**

**Cold plasma is the best decision you'll make this year.**