

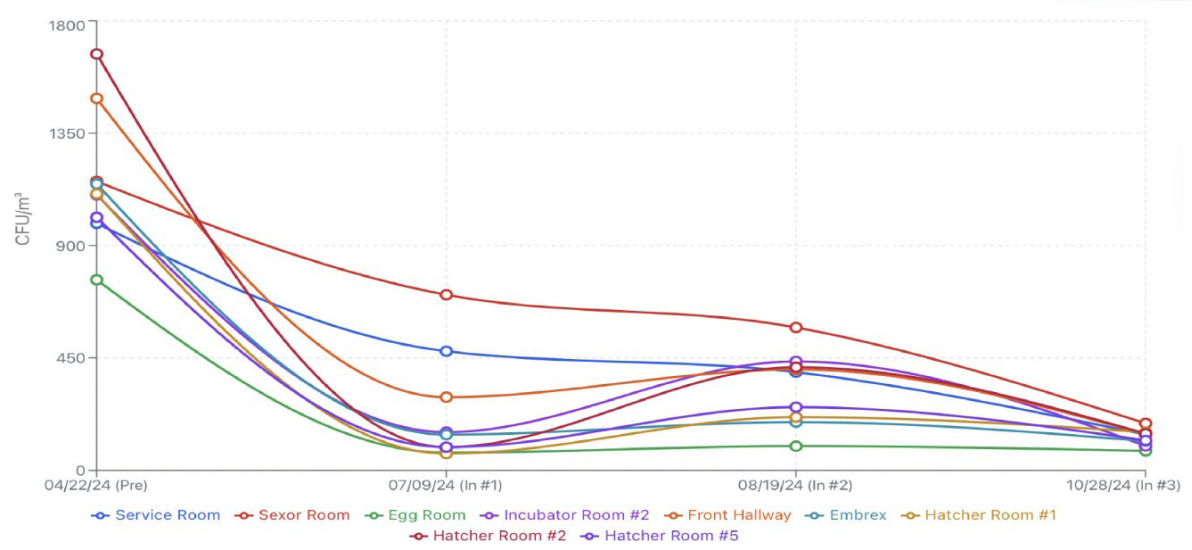
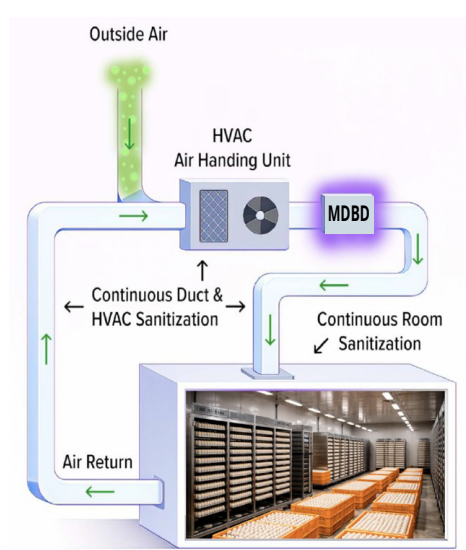


SENTINEL

Real world **benefits** for your facility

The SENTINEL by TOMIGUNN uses proprietary Modulated Dielectric Barrier Discharge (MDBD) technology to harness the power of cold plasma - supporting your goals for a leaner, meaner and more sustainable operation. **Facilities report MDBD achieves airborne and surface bioburden up to 98% below their historical levels, with some species reduced to non-detectable.** A continuous, fully automated process control enhancement for Salmonella, E. coli, Aspergillus, Penicillium, Staphylococcus, Enterococcus faecalis, Pseudomonas, and more resulting in:

- 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



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_2O_2 , that disrupt the lipids, proteins, and RNA/DNA of viruses, bacteria, mold/fungi and also break down VOCs and odors.

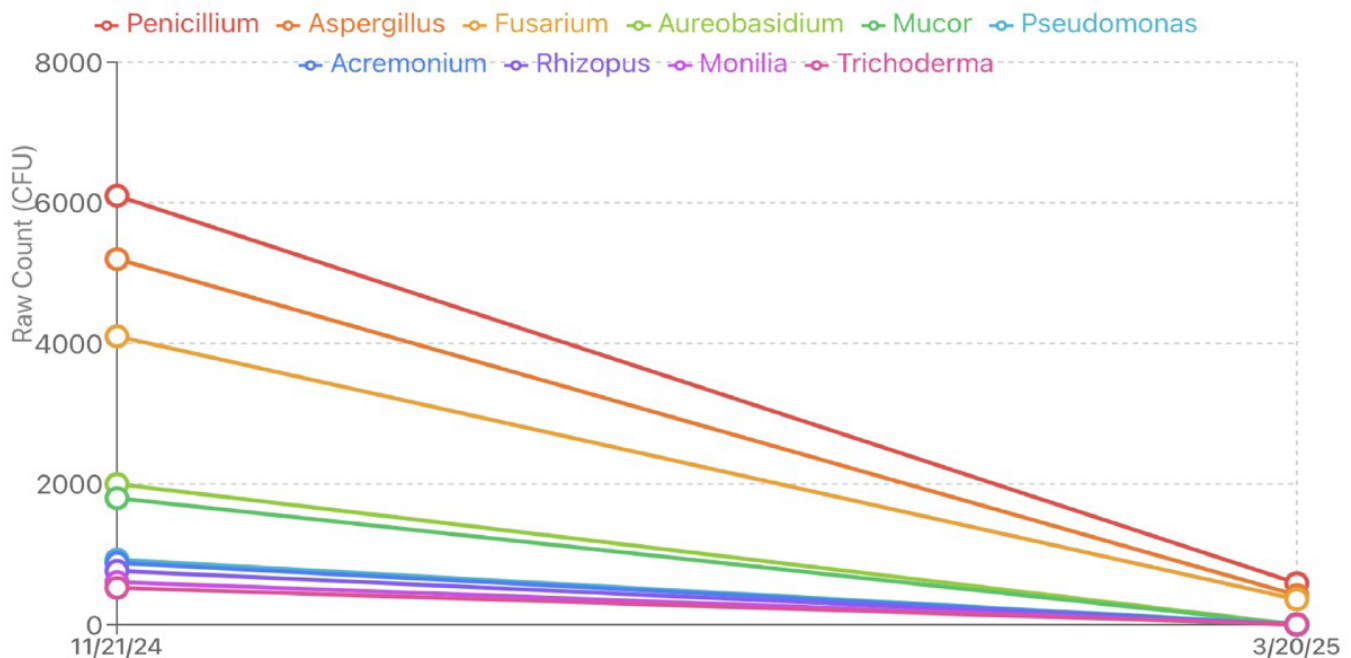
MDBD provides a seamless and sustainable enhancement to your operations:

- Non-invasive installation treats everywhere air can reach
- No added labor or disruption to daily operations
- No added consumables/chemicals
- 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.