FOOD & BEVERAGE

Food & Beverage

Food Safety &
Enhanced Shelf life

Chemtronics®
Innovation In Sustainable Solution

Root Cause

Sources Of Contaminations And The Entry Points

- **Raw Material/Commodity**
- **Manpower/Labours**
- **Factory Atmosphere**
- **Equipments & Instruments**

Mold | Spores | Yeast | Fungi

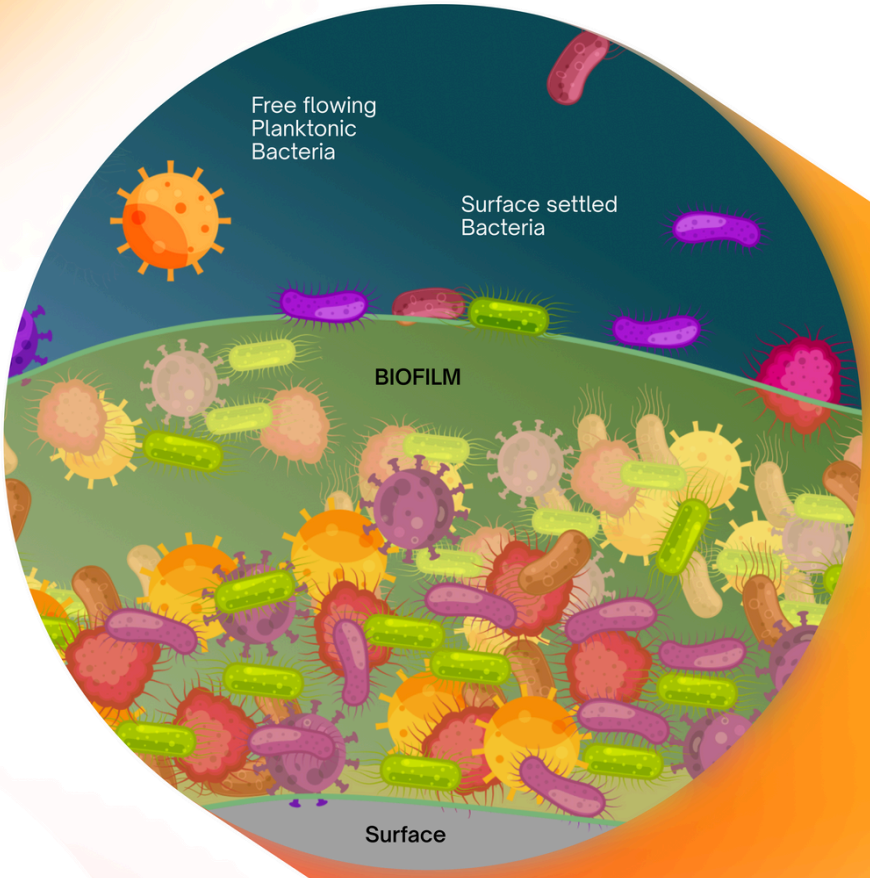
Air & Surface Contaminations

BIOFILM is a source of constant contamination as it periodically ruptures, releasing colonies of accumulated microorganisms underneath.

BIOFILM is a protective matrix made of Organic polymers (EPS) polysaccharides, proteins, DNA, lipids, etc., which provide the resistance to traditional as well as Modern-time cleaning agents and disinfectants.

More than air-born atmospheric contaminations, food and beverage factories have inaccessible surfaces for conventional cleaning and mopping. The equipment, conveyors, pipes, fittings, floor, walls, ceilings, fixtures, lights and AC ducts are usually impossible to mop or deep clean.

These surfaces are the source of BIOFILM formation underneath, the microfauna hides and multiplies.



FALLACIES:

- Conventional chemical cleaning is enough to get rid of surface micro-organisms growing under the Biofilm.
- Chemical cleaning can remove biofilms.

FACTS:

- 80% of the microbes on the planet live and multiply under the self-developed protective layers of Biofilms.
- More than 50% of the surface areas are not possible to clean.
- Micro fauna under the BIOFILM are 10 to 1,000 times resistant to antimicrobial agents and cleaning chemicals.
- Surfaces that are not thoroughly treated are bound to form Biofilms.

Solution

Treatment which is capable of oxidizing the Biofilms & bio growth underneath.

The technique should be the point of source.

ECOBOI

Patent no.: 448996

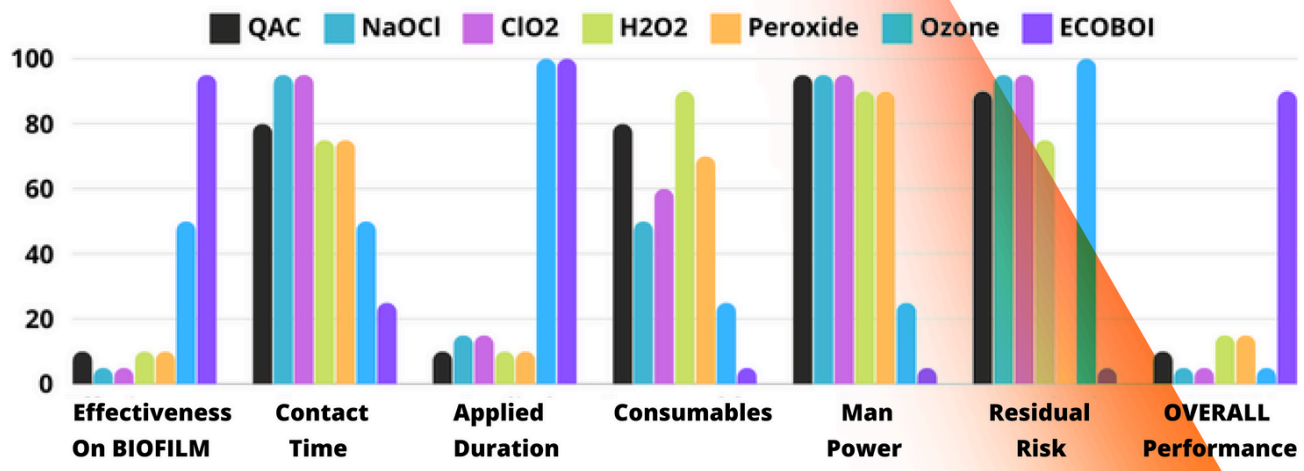
ECOBOI®

Benefits Of Using ECOBOI

Reduces Spoilage | Rejection | Recall | Disposal

Safe for Humans, Environment and Equipments

Electro-Chemical Oxidation (ECO) + **Bipolar Oxygen Ionisation (BOI)**



FDA APPROVED

GRAS GENERALLY RECOGNIZED AS SAFE

USDA ORGANIC

APPROVED

- Wall Mount Local Installation.
- As per HVAC Design.
- Retrofitting in Existing AHUs.
- Site-specific Distribution Design.

IAT Series

IAQ Series

INDO Series

PORTO Series

- No Consumables
- No Chemicals
- No Charging
- No Refill
- No Storage

Safety Compliance

OSHA NIOSH N.A.A.Q.S ASHRAE FDA

CE

Chemtronics® Innovation In Sustainable Solution