



*Inside the box*

 **Chemtronics**  
*Innovation In Sustainable Solution*



# WHAT MAKES THE INDOORS BE SO GLOOMY?



Poor indoor air quality significantly affects an individual's health, comfort and performance. It is not about the air or the airflow, it is about the pollutants and contaminants in the indoor environment which are physical, chemical and microbiological.

The feeling to "go out for fresh air" in an office often stems from several psychological, physical, and environmental factors.

The indoor air we breathe is full of invisible elements like vapours and microscopic particles like SPM, viruses, bacteria, spores, odours, and volatile organic compounds (VOCs), many of which harm our health.

Offices typically have limited or controlled ventilation, relying on HVAC systems to circulate air. Over time, the air can feel stuffy due to colloidal suspended particles, Vapours of organic building materials and biological contaminants.

Stepping outside seems appealing since poor air quality can cause allergies, exhaustion, headaches, and discomfort.

These are Sick Building Syndromes (SBS). To tackle SBS, we need to enhance the quality of the indoor environment.

Enhance IAQ



Reduce Sick building syndrome (SBS)

Many variables of IAQ can be measured, but human performance cannot be physically tested and measured. It is a nontangible matter that is still present even if it cannot be measured.

# SOLUTION

# ECOBOI

Electro-Chemical  
Oxidation (ECO)



Bipolar Oxygen  
Ionisation (BOI)

Agglomeration of Physical  
Colloidal by Bipolar Oxygen  
Ionisation (BOI)

Oxidation of Chemical fumes &  
aerosols by Electro-Chemical  
Oxidation (ECO)

Oxidation of Microorganisms and  
Surface Biofilms by Electro-  
Chemical Oxidation (ECO)

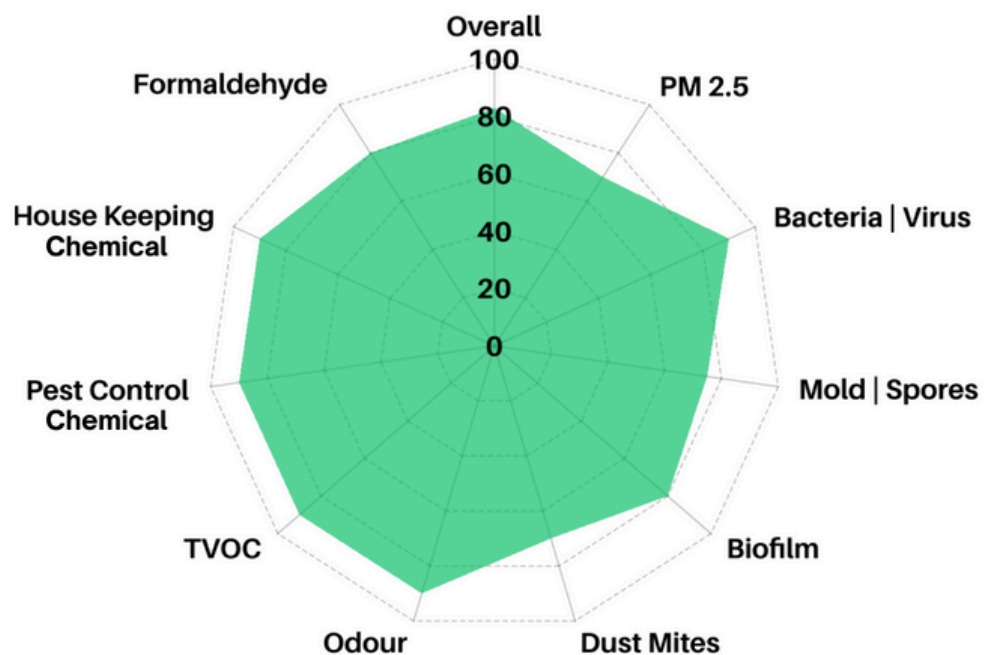
Comparative analysis shows us  
how ECOBOI stands atop all  
spectrums.

## Technology - "ECOBOI"

Principle - "Penetrate And Treat"

ECOBOI is a cutting-edge "Point Of Source" air and surface treatment technology that tackles these threats head-on. This technology neutralizes harmful contaminants by releasing gentle oxidizers with positive and negative oxygen ions.

The result is cleaner, fresher air filled with harmless vapours and natural gases, making every breath healthier and safer.







**BOI**  
Ceiling Mount Integration



**INDO**  
AHU Integration



**IAT**  
Wall Mount Integration



No Consumables



No Chemicals



No Charging



No Refill

## Safety

