

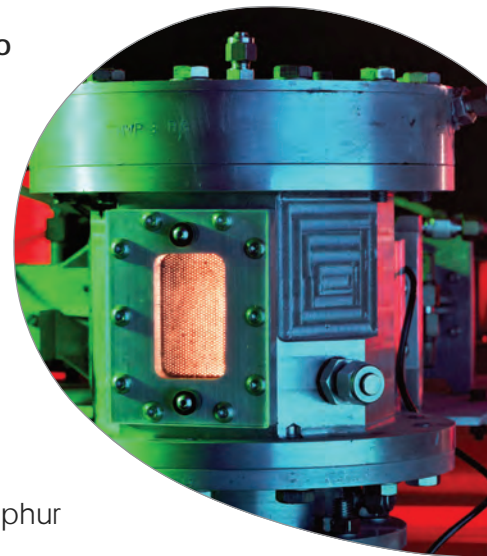


# Plasma Air Purification System

Effective air purification presents a challenge to many industry sectors with increasingly stringent legislation enhancing the requirement for companies to control emissions.

C-Tech Innovation has developed an advanced air purification system which delivers high level, single pass destruction of a wide range of organic compounds. The system combines a unique atmospheric pressure microwave plasma with highly active oxidation catalysts to provide complete destruction of organic pollutants.

This system has been shown to be effective in destroying a wide range of airborne chemicals, including, Volatile Organic Compounds (VOCs) such as aliphatic and aromatic hydrocarbons, amines, carbonyl compounds and sulphur containing compounds.



## Benefits

- Very high level destruction of VOCs
- Superior odour mitigation performance
- Reduction of chemical toxicants; >99% in a single pass
- Throughput up to 200m<sup>3</sup>/hr
- Flexible modes of installation: compatible with existing air-handling systems
- Mobile, compact and user-friendly

## Potential Applications

- Odour abatement
- Removal of emissions from fastfood outlets
- Destruction of volatile organic compounds
- Removal of specific chemical toxicants (e.g. phosphorus compounds).
- Supplement to or replacement for existing air filtration systems

