

# Odour Control Equipment

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As per the “Central Pollution Control Board”, out of all various air pollutions, the Odour is the most complex to measure and treat, also is most common & challenging to treat. There are two categories of Odour, one is indoor Odour & the other is outdoor Odour which is exhausted from indoor facilities. The odour from residential & commercial establishments and the industrial manufacturing industry are addressed differently, and different technologies are used to treat it. Depending upon the activity & source, Odour can be inorganic or volatile organic.

## Why control Odour :

Indoor Odour or exhaust odours can have an ill effect on an individual's health due to toxic chemicals & microorganisms present in the odorous gases. The continuous presence of Odor in the atmosphere can have serious nuisance value to the people responsible for generating, their stack holders, and adjoining premises. Odour in the atmosphere can have a social, political and legal aspect, so it is essential to treat or control Odor. It is a moral, social duty to treat Odour within the facility, or if air containing Odor is exhausted, it does not become an odor nuisance. If Odour is not appropriately treated, it can become a political or legal issue.

## Sources of Odour:

The source of Odour is from residential & commercial establishments or industrial & manufacturing plants. Often, Odour is exhausted with the help of ventilation & in this case, and exhaust air needs to be treated for odor control. If Odour is spread within the facility, then indoor Odour has to be treated for the safety & comfort of the occupants. Below is the list of diversified odor sources from the residential, commercial & industrial sectors

## Different Odour Control Systems & Odour Control Equipment:

Different odour control systems and odour control equipment are available for deodorization of the Odour. Below are some of the odour control techniques used in odour control applications.

Dry Scrubbers

Thermal Incinerators for Odour Control

Wet Chemical Scrubbers for Odour Control

Activated Carbon Adsorption

Biofilters for Odour Control

Ultraviolet Ozone Odour Control

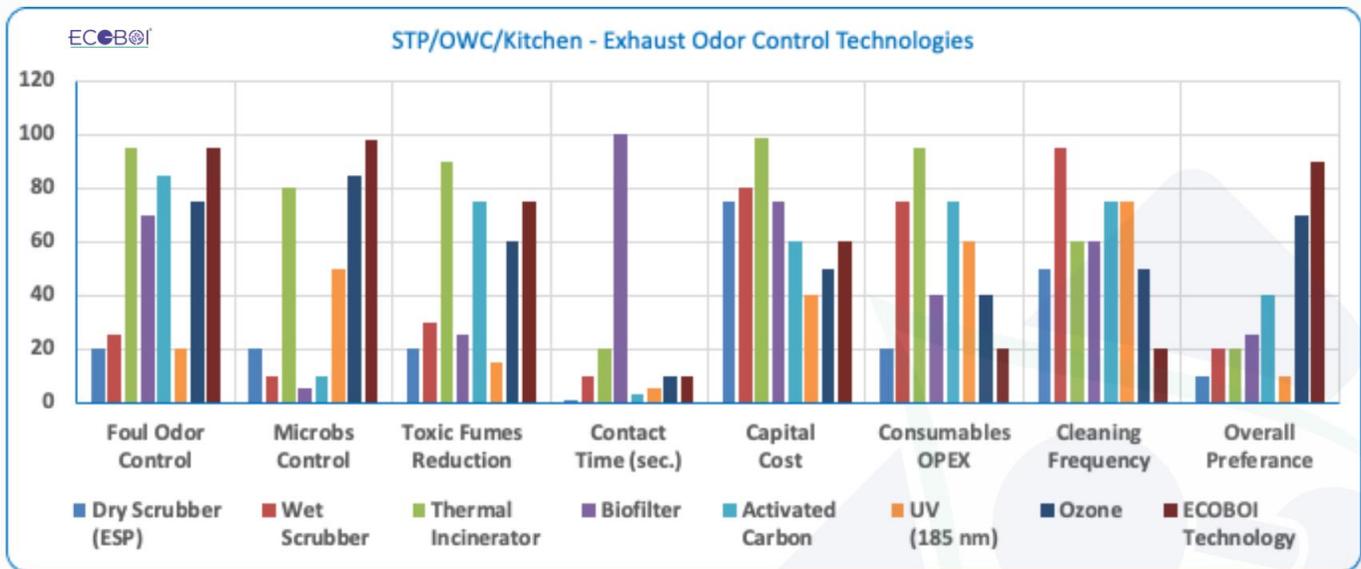
Ozone Generators for Odour Control

ECOBOI Generator for Odour Control

There are some advantages & disadvantages of the above-listed odor control equipment. Depending on industries & the application odour control system is selected.

Below chart give an overall comparison of different odour control systems for STP/OWC exhaust air odor control

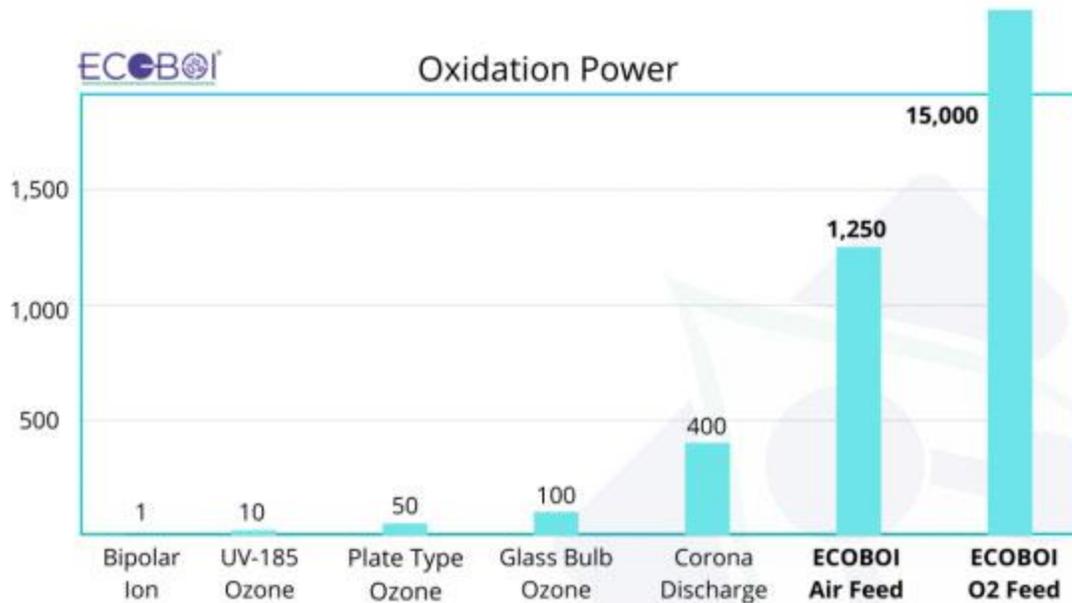
### Technology Comparison



## ECOBOI Odour Control System :

Chemtronics provides the most advanced, powerful & highly effective ozone generator for odour control using ECOBOI technology (applied for patent). These are listed below:

## Comparisons Between Oxidation Power of Different Technologies



- ECOBOI System for Odour Control Solution
- Commercial Deodorizer (Ozone Generator)
- Deodorizer (Ozone Generator)
- Duct Mounted Ozone Generator Unit
- Commercial Kitchen Smell Removal System
- Kitchen Exhaust Air Scrubber
- Commercial Kitchen Odour Neutralizer
- Air Quality Management System
- Air Pollution Control System
  
- Air Pollution for Sewage Treatment Plants
- Ozonizer for STP Exhaust
- Ozone Injection System For Odor Control
- Air Ozone System for OWC Exhaust
- Portable Odour Control Equipment
- Mobile Odour Control Equipment

- Ozone Odour Oxidizer System
- Ecology Odour Control Equipment
- Commercial STP Area Exhaust Air Odour & Pollutant Reduction

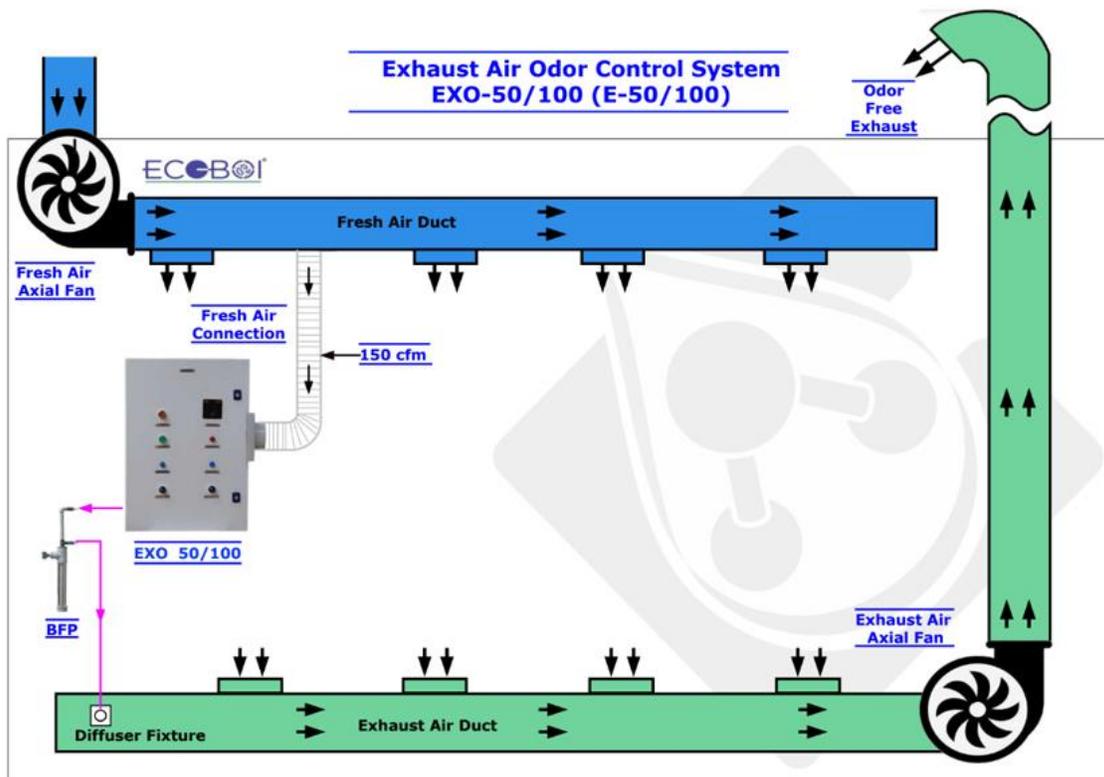
ECOBOI Odor control equipment is used for both indoor & exhaust air odor control applications for residential, commercial & manufacturing industries.

### Process Flow Diagram: ECOBOI Generator For Odor Control

An odor control system is a complex way of understanding the present scenario, source from where odor is generated, ventilation design & accordingly design the odor control solution for the client. We at Chemtronics use innovative capture & treat techniques to optimize the performance. For successful result, ozone control design depends on :

1. Literature Review.
2. Data & experience from past installed sites.
3. Diversified experience in the field of Ozone solutions.
4. Stoichiometric mass balance calculations.
5. Site conditions & ventilation design.

A typical “STP Exhaust Air Odor Control System” layout:



**Exhaust Air Odor Control System  
EXO OXY-200/300 (E-50/100)**

