



**AirVeritas™**

# ODOUR CONTROL SYSTEM

*Engineered Odour Control for Municipal & Industrial Applications*



*Controlling Odour. Protecting Air Quality.*



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# The Odour Problem

Municipal pumping stations and sewer drop shafts emit a mixture of strong odour-generating gases:

**H<sub>2</sub>S, CS<sub>2</sub>, SO<sub>2</sub>, NO<sub>2</sub>, NH<sub>3</sub>, Mercaptans**

**These gases cause:**

- Strong foul smell in surrounding areas
- Corrosion of pipelines & pump equipment
- Health discomfort for workers & public

This makes a dedicated two-stage odour control system essential.



## Why Two-Stage Treatment?

Odour gases vary in concentration and composition.

A single-stage system cannot remove all gases effectively.

The AirVeritas approach uses two complementary technologies:

- 1) Bio-Trickling Tower – main odour removal
- 2) Carbon Tank – final polishing

Together, they ensure high efficiency, long life, and near-zero odour discharge.



## Bio-Trickling Tower

The Bio-Trickling Tower performs biological oxidation of odorous gases.

### How it Works:

- Foul air enters the tower
- Air passes through a high-surface-area media bed
- Specialised microorganisms break down gases like:

$\text{H}_2\text{S}$

$\text{CS}_2$

$\text{SO}_2$

$\text{NH}_3$

- A recirculating nutrient solution keeps the bacteria active
- More than 90–95% of odour load is removed here

### Key Benefits:



Ideal for high  
 $\text{H}_2\text{S}$  loads



Low operating  
cost



No chemical  
consumption



Stable & continuous  
performance

## Activated Carbon Tank (Polishing Unit)

After biological treatment, the air passes into the Carbon Tank, which ensures complete polishing.

### How it Works:

- Activated carbon adsorbs remaining gases
- Targets odours not fully removed in the biological stage
- Works as backup during biological fluctuations
- Ensures low-ppm to zero-odour discharge

### Key Benefits:



High polishing  
efficiency



Works for a wide  
spectrum of gases



Low  
maintenance



Ensures consistent  
output 24/7

# Applications & Installations

- Refineries – H<sub>2</sub>S Removal & Odour Vent Treatment
- Chemical processing units
- Solid waste handling facilities

## Applications Highlight:

- Effective removal of high H<sub>2</sub>S loads
- Controls mixed-gas odours in challenging environments
- Reliable performance for continuous industrial operations



## Contact Us:



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