



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:

H₂S, CS₂, SO₂, NO₂, NH₃, 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:



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

Key Benefits:



Ideal for high H₂S 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 – H₂S Removal & Odour Vent Treatment
- Chemical processing units
- Solid waste handling facilities

Applications Highlight:

- Effective removal of high H₂S loads
- Controls mixed-gas odours in challenging environments
- Reliable performance for continuous industrial operations



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