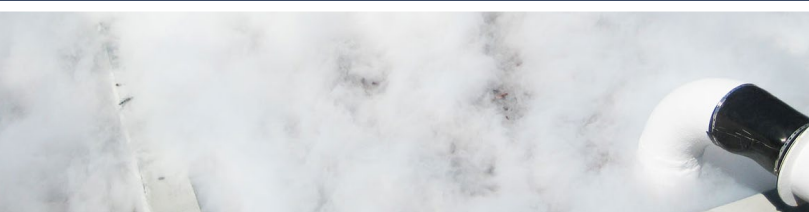


DON'T GUESS. TRACE THE AIR.

Smoke testing shows how air actually moves through a biofilter.

Uniform airflow is essential for reliable H₂S and VOC removal.

A visible smoke test can uncover distribution problems that calculations and pressure readings alone may not show.



UNIFORM DISTRIBUTION

Even smoke across the media surface confirms proper plenum design and balanced airflow.



CHANNELING

Smoke follows paths of least resistance, leaving portions of the media underused.



LEAKAGE

Escaping smoke helps locate air leaks, bypass paths, and damaged areas.



WHY IT MATTERS

Poor airflow distribution can lead to:

- Reduced H₂S and VOC removal efficiency
- Uneven biological growth
- Localized drying or over-wetting
- Higher pressure drop
- Increased operating costs
- Premature maintenance



IDEAL APPLICATIONS

- New biofilter commissioning
- Media replacement projects
- Warranty inspections
- Performance troubleshooting
- Air distribution balancing
- Fan upgrades
- Engineering acceptance testing
- Annual preventative maintenance



A VALUABLE COMMISSIONING TOOL

A **smoke generator** allows engineers and operators to observe airflow patterns that are otherwise invisible. When combined with differential pressure measurements and odor performance testing, smoke testing is **one of the most effective methods** available for verifying biofilter performance.



GREAT BIOFILTER PERFORMANCE BEGINS WITH
GREAT AIR DISTRIBUTION

GES Biotek offers airflow verification and commissioning support for municipal and industrial odor control systems.

Smoke Testing | Airflow Evaluation | Startup Support
Performance Testing | Engineering Recommendations



SCAN TO LEARN MORE