

Ventilation Livestock industry Workplace



Smoke, your tool for a cleaner environment and increased security

Smoke as an Aid in Environmental Work

It's no secret that our indoor and outdoor environments are changing for the worse. We hear daily reports warning us about failing indoor environments in apartments, schools, offices and factories. One of the main problems is ventilation.



It goes without saying that people and animals have a right to breathe clean, fresh air at home, at the workplace and in the livestock industry. Unfortunately, the reality of the situation many times is different.



Colour the Air with Smoke—Then it's Visible

A visible air stream is nothing more than coloured air. Smoke reveals air movements and exposes leakage in air ducts and plumbing. Smoke is an unbeatable tool for performance tests for ventilation in apartment buildings and offices. It is mostly our line of white smoke products that are used for this purpose.

White smoke is highly reflective in daylight. In pressure tests for drainage systems, cisterns, ducts etc., our coloured smoke clearly shows leakage as well as marks the leak itself with coloured deposits. The coloured smoke can discolour surfaces, so avoid letting the smoke spread in homes, offices or other sensitive spaces. Our perfumed smoke has an added function: it allows you to also use your nose to help pinpoint leaks that are difficult to see.

A preliminary smoke test enables you to quickly place your instruments in the right place for measuring airflow, volume, pressure etc.

An airflow test using smoke that you can photograph is often enough for a primary environmental evaluation; and it can be an effective compliment to your instrument readings. The photograph of a smoke test automatically indicates the appropriate positioning for your instruments.



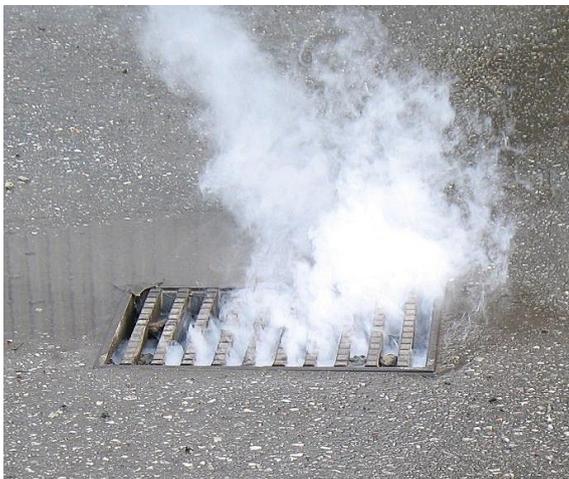
Sewer Testing Pipe Testing Foundation drains



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Smoke Test

Smoke Testing is commonly used to detect inflow sources such as roof leaders, cellar, yard and area drains, foundation drains, abandoned building sewers, sewer gases in homes, line blockages, faulty connections and poorly performed seal.



Cross connections:

Illegal connections and storm water drainage system cross connections are not uncommon.

It can also detect structural damages and leaking joints in sewer pipes and overflow points in sewer systems.

Product assortment.

Our smoke generators produce a dense smoke with a solid type of smoke particles, these particles have more or less an infinite lifespan as long as they are not dissolved in water or similar. So as long as generated smoke floats around in the surrounding air it will stay visible.

Above criteria is very important when performing a test in long piping of any kind, for example if theatrical smoke is used that consist of wet type particles with short lifespan the risk can be that it does not show the real condition of the test object.

We produce Smoke Generators in a number of sizes and also with special abilities such as coloured, perfumed and also Clean Smoke with low chloride content for tests in sensitive areas such as computer server rooms or the like.



Fire Training Leakage Tests Fire Safety



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Training Smoke with Unique Possibilities

Training smoke for fire and rescue services is a high-tech product which fulfils the demands necessary for ensuring personal safety and creating a realistic exercise. Our training smoke has properties like smoke from a real fire: it expands from ceiling to floor, has powerful turbulence and produces a robust effect. A **new feature** is **dark-grey** smoke from our line of smoke-emitting capsules for fire drills involving dangerous goods and gas simulations.

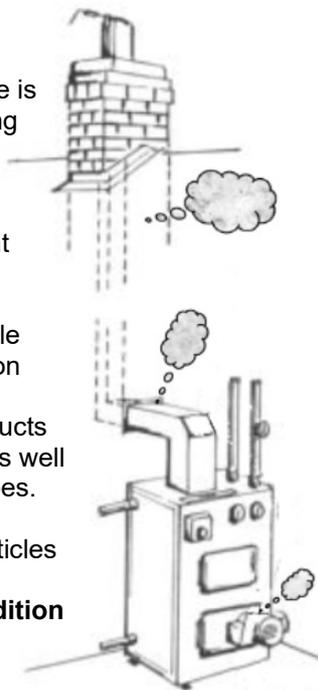
For simpler evacuation exercises in industry etc., our grey-white smoke with or without perfume can be used. It has a less stressful effect.

Björnax products are manufactured for dimensions of 0.7 to 400 cubic meters (25 to 14200 cubic feet) per unit and can withstand temperatures up to 400°C (752°F).



Leakage Testing and Flow Tests

A very important area of usage is preventive tests when checking leakage and flow control for chimneys and gas fittings. Checking that a chimney or gas fitting is completely airtight and that there is unobstructed exhaust flow in the chimney pipe or exhaust duct is a simple way of preventing fire or carbon monoxide poisoning in living spaces. We have smoke products for use with stone chimneys as well as stainless steel insertion pipes. Our smoke products emit a powerful smoke with solid particles **which ensures that the test results correspond the condition of the chimney.**



Disaster training.

The smoke is even used by dog handlers for training: disaster exercises and even for checking wind direction in search missions.



Fire Alarm Tests

A common area of use is system tests and placement tests for smoke detectors in fire alarm systems. A preliminary placement test provides the optimal positioning for smoke detectors. This facilitates early warning in case of fire.