

STREET FILTERS



Compact, effective and environmentally friendly

Sewer odours are unpleasant and affect well-being. Depending on concentration, they can even pose risk to health. Hydrogen sulfide is the result of oxygen-depleted degradation processes and is the main component of the unpleasant odour. It also attacks the fabric of the sewer and, over time, can destroy it. This is due the microbially induced corrosion (MIC) caused by hydrogen sulfide which attacks concrete and steel.

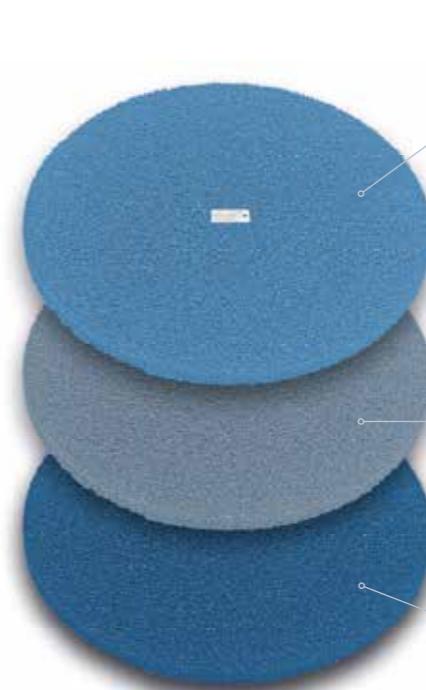
Ventilating the sewer system can really put the brakes on this process while simultaneously reducing odour

emissions. The COALSI system solution combines physical, chemical and biological methods. The filter thus significantly reduces sewer odour nuisances.

Linking society and the waste disposal sector, our products provide the optimum solution for your needs. Operating simply and effectively, our solutions provide a quick and straightforward remedy, minimising health risks and avoiding costly remediation work.

COALSI triple filtration

The special triple filtration provided by the COALSI system solution significantly reduces sewer odour nuisances. The various methods used are the secret behind the system's effectiveness.



1 BIOLOGICAL

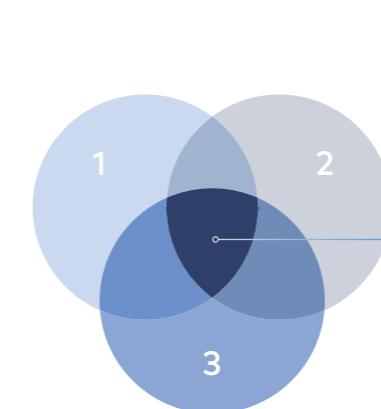
Specific microorganisms are applied to a loosely structured PU mat. As it flows through, the exhaust air supplies the microorganisms with nutrients, so activating them and causing them to grow. Hydrogen sulfides are effectively broken down and filter performance is significantly boosted.

2 CHEMICAL

Certain substances are mechanically filtered and retained.

3 PHYSICAL

Gas molecules are retained in the activated carbon material of the filter where they accumulate. The surfaces have a catalytic action and specific chemical substances have a buffering or absorbent effect.



A combination of biological, chemical and physical methods is what makes the filters so effective.

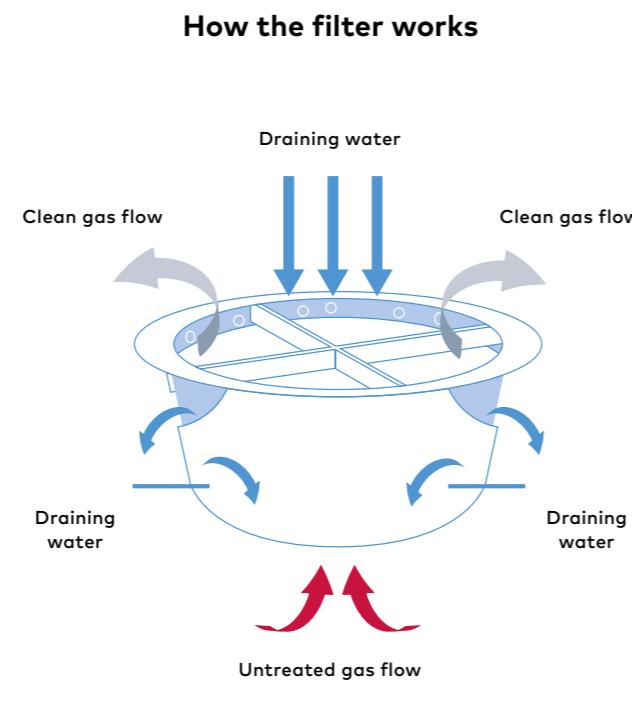


Street sewer filters

COALSI street sewer filters cut down on exhaust air containing gaseous emissions. In contrast with conventional activated carbon filters, biological methods considerably improve filter action.

The hybrid activated carbon filter with its microbiological backup stops odour emissions from all common sewer manholes.

The siphon system ensures a uniform distribution of the air stream while at the same time allowing unimpeded passage of water despite the odour barrier. This ensures optimum ventilation of the sewer system and reliable, inexpensive and low-maintenance odour removal.



Products

The street sewer filter can be individually adapted for use in all common combined and divided systems. Custom solutions are available on request.



UT30146
COALSI hybrid activated carbon filter
Diam. 682.5 mm with exposed concrete walls



UT30145
COALSI hybrid activated carbon filter
Diam. 628 mm with smooth concrete walls



UT30040
COALSI hybrid activated carbon filter
Diam. 682 mm, deep version with wide L seal



UT30009
COALSI upgrade hybrid activated carbon filter with siphon system



UT30039
COALSI hybrid activated carbon filter
Deep version with narrow seal



UT30050
COALSI retrofit hybrid mat module
Diam. 443 mm

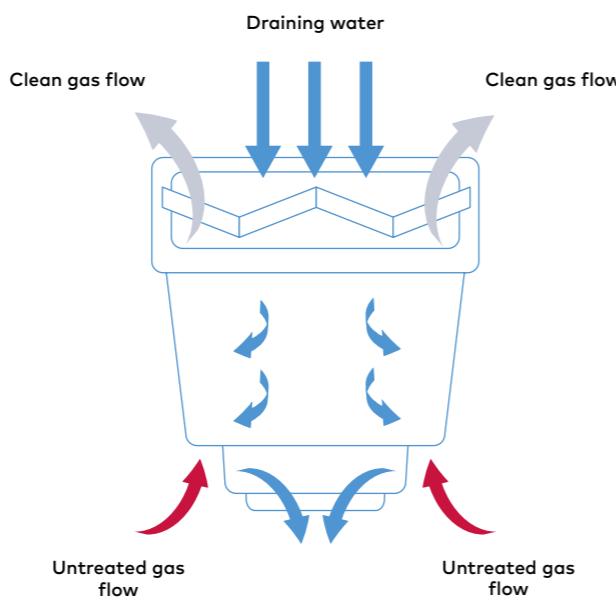


Street drain filter

Street drain filters also effectively filter malodorous gases while simultaneously permitting street water drainage. The sewer is open to natural gas exchange within the sewer system. The siphon system means that the intake capacity of the sewer system is unimpaired. Water can flow away virtually unimpeded and the air stream is uniformly filtered through the hybrid mats.

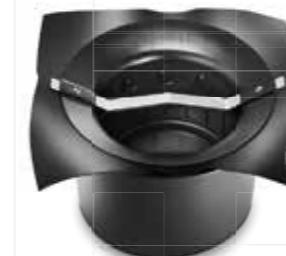
The hybrid activated carbon filter stops odour emissions from all common sewer manholes and additionally ensures unimpeded inflow of extraneous water into the sewer system.

How the filter works



Products

Applications include any common combined and divided water systems.



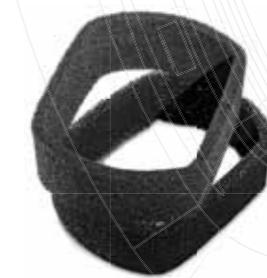
UT30160

COALSI street drain filter
Short version, round diam.
385 mm



UT30148

COALSI street drain filter
Short version,
segmented



UT30181

COALSI retrofit hybrid mat
module for side drain filter



We are happy to
manufacture individual
custom solutions
on request.



Advantages of street filters

- **Low capital costs**
- **Robust construction (low weight, easy to handle)**
- **Maximum possible filter area**
- **Reliable and simple to use**
- **Maximum service life**
- **No additional moistening after extended drought**
- **Natural gas exchange**
- **Highly effective**
- **Environmentally friendly**
- **Many variants possible**

Applications



1 STREET DRAIN FILTERS
Filter malodorous gases from street drains

2 STREET SEWER FILTERS
Stop odour emissions from sewer manholes



You can count on us.

Our expertise makes us the ideal partner to provide the optimum solution to your problem.

Fritzmeier Umwelttechnik brings together expertise in plastics manufacturing and bacterial fermentation.

Arising from this synergy, the COALSI brand was incorporated into the company in 2010. The original filter technology has been further developed, resulting in the hybrid activated carbon filter with triple filtration.

COALSI is a leading provider of system solutions for exhaust air and extraneous water problems.

Products for rainwater retention in foul or combined drainage systems complete the range.



COALSI combines effective components into a unique product.

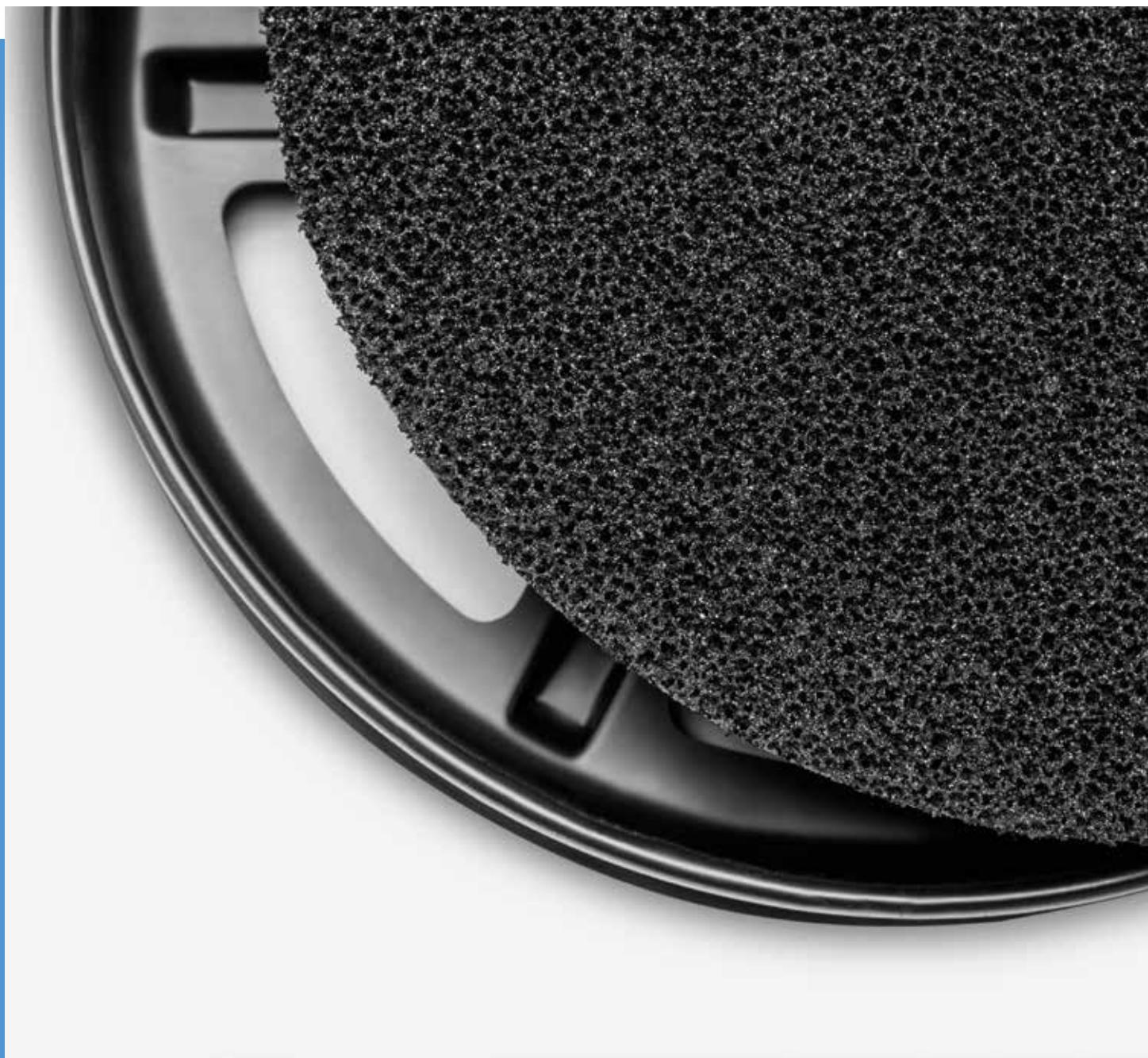


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