

Increasing **extreme weather conditions** are facing operators of Drainage systems with growing challenges: During **drought and heat** Odors and biogenic corrosion are increasing. For **more than ten years** the team of UNITECHNICS is dealing with these challenges and finds together with its customers solutions “**made in Germany** “. With **experienced engineering experts** and an **own inhouse production** at its headquarters in Schwerin UNITECHNICS is your specialist to prevent odor and biogenic corrosion in concept phase and operation of sewage systems.

The two sides to the odor problem

Water consumption is constantly dropping. While water saving is good for the environment – it also causes **problems**. Because the lower the amount of waste water the higher the specific **dirt concentration** and the more odors are created. With wide sewage networks and long resident times of waste water in the sewage system the waste water already starts to rot inside the sewage system or in the pressure pipelines. **Hydrogen sulfide (H₂S)** is produced. This toxic gas is responsible for **bad odors**. Higher Temperatures accelerate the process. The bad odor increases. Even Worse: Through biochemical processes Hydrogen sulphide sponsors the **Corrosion of concrete** and destroys entire sewage structures even at low concentrations. The consequences are **expensive investments** – and ultimately **fee increases** for the citizens.

Problem 1: The odor

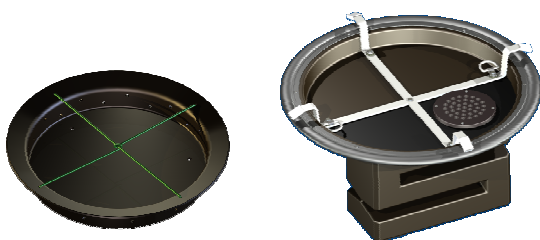
- Citizens complain about the stench from the sewage system.
- Public authorities and agencies have to deal with angry residents.
- Often chemicals are added to minimize the odor. However, this is usually the most expensive solution.

Problem 2: The biogenic corrosion

- If it stinks from the sewage system, there is often biogenic corrosion too.
- Expensive renovations of the manholes reduce the household budget significantly.

Odor cushioning system Uni-AdSorber

for installation in the manhole cover frame



Including dirt-catch

Function

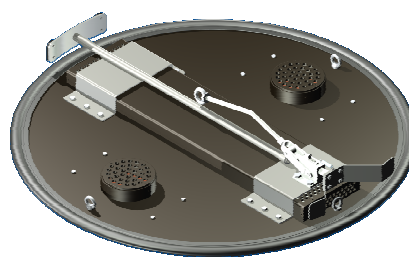
- For installation in the manhole cover frame
- Odour removal by special “filter material”
- Permeable to water
- Benefits**
- “Filter material” does not need to be changed
- Fast installation and removal
- Comes with special dirt-catch
- **Low maintenance**



Installation illustration

Odor cushioning system FVA (patented)

for installation directly over the pipe crown and berm



Function

- Installation and removal within a few Seconds without entering the shaft-manhole
- Protects the shaft-manhole above the Installation level against corrosion
- reduces odors



Installation illustration