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UGN®-BEGA-System

(Ventilation system that uses directed gas streams and segmented exhaust air purification in sewers and similar facilities)

There is no better way to rid sewage systems and similar facilities cost-effectively, efficiently and sustainably of contaminants and odorous substances as well as avoiding corrosion. The procedure, which is customized to the respective situation on-site, is effective, user-friendly, and boasts low purchase and operating costs into the bargain.

Description

The UGN®-BEGA-system, which was developed by UGN-Umwelttechnik GmbH, is based on active and directed ventilation in a specific part of your system.

The purpose of the BEGA system is to prevent an increase in concentration and emission of contaminants and odorous substances, to reduce corrosion and to improve occupational safety conditions. This is achieved by influencing the system climate and hydraulics.

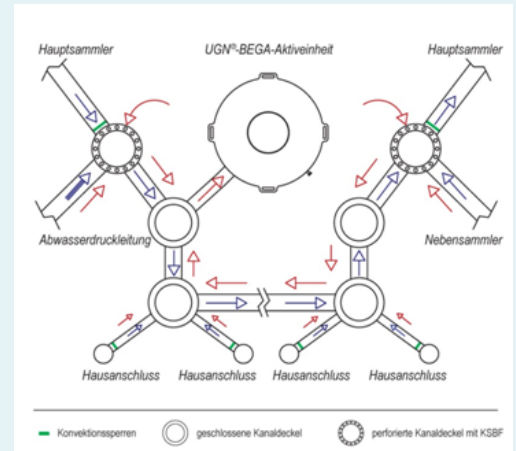
The process involves air feed systems with an upstream or downstream biofilter, which prevents contaminants and odorous substances from escaping into the environment. Depending on the prevailing exhaust air conditions, this filter can be designed as a chemo-physical, chemo-biological or biological filter featuring the respective flow properties.

Comparing costs of alternative solutions

Investigations, which were part of a bachelor thesis written on behalf of UGN-Umwelttechnik GmbH at Jena University of Applied Sciences, found out that the costs caused by the UGN® BEGA system are only half of those that come with alternative processes.

Oxygen supply	Extension of wastewater pressure pipes	Nitrate dosage system	BEGA system
€136,550.00	€2,000,000.00	€109,614.60	€62,000.00

The costs stated in the table above are the purchasing costs for measures to avoid odour and corrosion in a specifically determined sewer system (as of 2008). Please note also the follow-up costs: Whereas the costs stated for oxygen supply and nitrate dosage are annual (sic) costs, the estimated operating costs for the BEGA system are as little as €6,000.00 per year.



BEGA system for use in a sewer system



BEGA system for exhaust air from a pumping station



BEGA system used to empty a pressure pipe end sump and screening channel

For further information, do not hesitate to contact us:

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