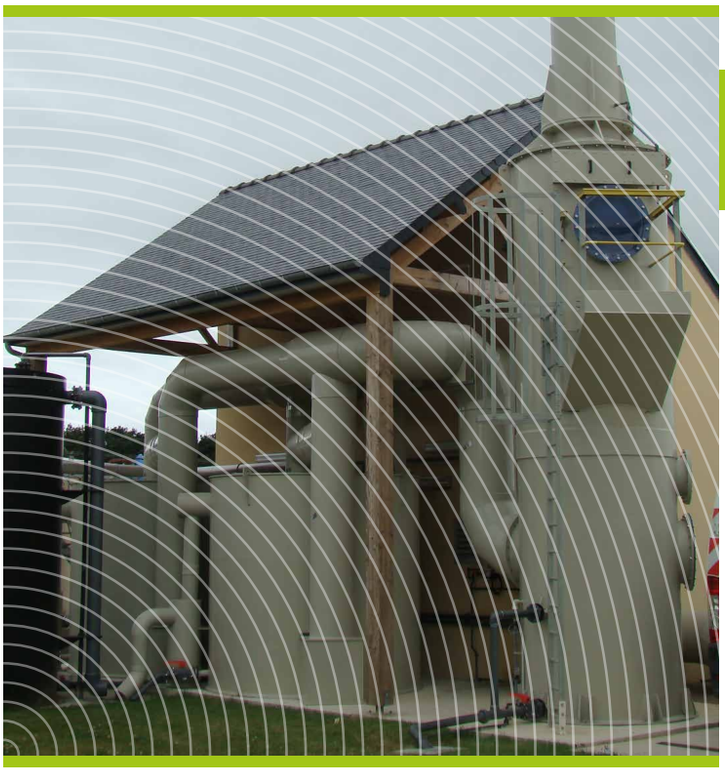
Azurair™ B-Twin

biological treatment of hydrogen sulfide and mercaptans

air



odor pollution control with a sustainable development approach

ease of operation

maintenance is reduced to the absolute minimum as the process does not require any reagents or any change of media

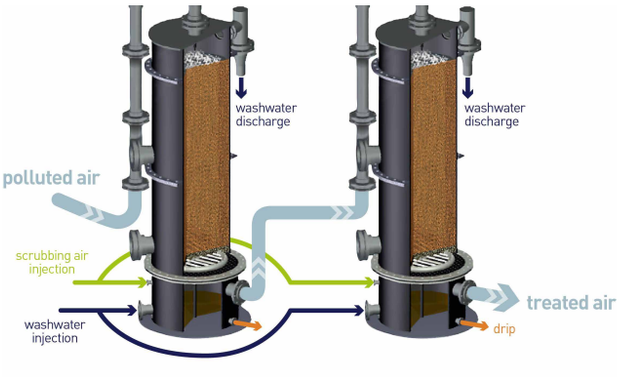
environment

a 100% biological solution based on an entirely natural process

innovation

the pairing of two biological filters achieves a complete H_2S treatment, and an advanced treatment of mercaptans

Azurair™ B-Twin, based on the combination of two types of biological deodorizing equipment, can eliminate the olfactory nuisances of small wastewater treatment plants with no changes of media and without the use of reagents.



key figure

95%

of H_2S and mercaptans removed

SUEZ infrastructures de traitement

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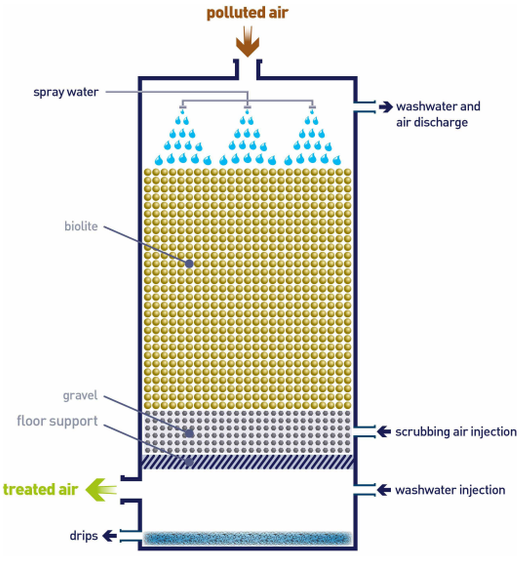
SUEZ

Azurair™ B-Twin technology . . .

Hydrogen sulfide (H_2S) and mercaptans are among the common pollutants at a wastewater treatment plant that are characterized as foul-smelling. The Azurair™ B technology developed by SUEZ, can eliminate up to 99% of the H_2S, and offers an efficient biological solution to the nuisances caused by hydrogen sulfide (health risks, corrosion of concrete and metals of sewerage structures). By pairing two Azurair™ B systems, and thereby creating the Azurair™ B-Twin, SUEZ has advanced the 100% biological deodorization of treatment facilities by simultaneously addressing the treatment of H_2S and mercaptans (R-SH). This combination provides a comprehensive odor treatment solution.

A reinforced treatment process: Azurair™ B-Twin is based on a system of biological deodorization carried out in two sequential towers, adhering to the principle of the streaming biofilter: the towers are both equipped with a mineral media (biolite) to which micro-organisms are attached that have the special property of breaking down the odor-causing compounds via their metabolism. In order to optimize the breakdown of these pollutants, a sequential sprinkling system is integrated, maintaining an optimal moisture content.

The foul air is introduced into the first tower and goes through the first acidic pH biofilter which promotes the elimination of H_2S before being directed to the second tower (or "finishing tower") which functions at a neutral pH to facilitate the elimination of mercaptans, with **no use of reagents or regulation.**



. . . what it can do for you

environment and safety

- a 100% biological solution
- no use of chemical reagents
- compact equipment
- elimination of risks linked to H_2S

performance and savings

- efficient treatment of H_2S and mercaptans
- investment and operating costs that are superior to other air treatment technologies

ease of operation

- continuous-use mineral media (does not require replacement or reloading)
- natural process that does not require regulation

among our references

Chevrières Granfresnoy, France
capacity: 5,500 PE

SUEZ treatment infrastructure

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Conception & Realisation: O. Barbier (SUEZ) - Photos credits: SUEZ