



Azurair™ Boost

deodorization of wastewater treatment plants through advanced desulphurization

○ air



control the odor pollution of wastewater treatment plants in warm climates

○ savings

lower use of bleach and very low electricity consumption

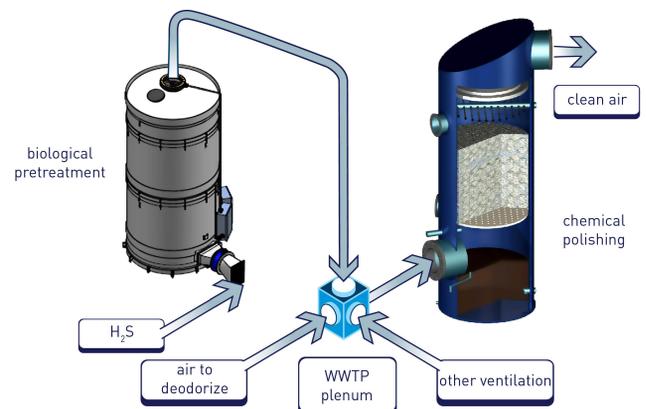
○ safety

treatment of H_2S at the point of issue

innovation

capacity to treat high concentrations of H_2S utilizing a mix of two technologies

Azurair™ Boost eliminates high concentrations of hydrogen sulfide (H_2S). Combining biological deodorization and physicochemical deodorization, it is specifically designed for warm climates and areas with high presence of sulfates in wastewater.



key figure

up to

99%

savings in bleach used to treat high concentrations of H_2S



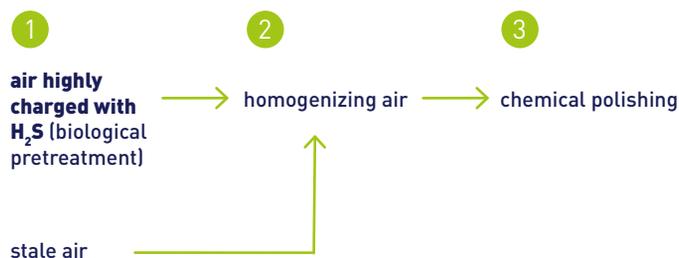
Azurair™ Boost technology . . .

Composed of sulfur and hydrogen, hydrogen sulfide (H₂S) is a pollutant often emitted by wastewater treatment plants (rotten egg smell). Inhalation can cause - depending on the quantity - loss of consciousness and even death. H₂S also corrodes concrete and metal within purification facilities. When in contact with collector walls, it transforms into sulfuric acid.

A combination of two types of treatment: biological deodorization technology works within a tower filled with synthetic medias (or "filler") spread onto one or more levels, and on which will develop the biofilms loaded with micro-organisms that will use the H₂S in their metabolism. Arriving at the base of the tower, the air passes through the biofilm, regularly sprayed with water to optimize performance. Next, the air joins the plenum chamber where it is rerouted via ventilator, towards the physicochemical treatment phase.

By combining the two technologies, the advantages of each are optimized:

- the biological deodorization avoids the use of reagents
- the physico-chemical deodorization adapts instantly to the slightest load variation to meet the guarantees



. . . what it can do for you

savings and ease of operation

- very low electricity consumption, diminishes the use of bleach, operates with filtrated water from plant discharge
- simplicity of equipment and instrument use, automated operation



safety and environment

- treatment in a confined zone immediately adjacent to the point of emission: secure work environment, suppress sanitary danger
- avoid unpleasant odors for local populations



among our references

As Samra, Jordan
capacity: 3,000,000 PE

La Farfana, Chile
capacity: 3,000,000 PE

SUEZ treatment infrastructure

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www.degremont.com