



**Committed to Protecting Life
and Preserving the Environment**



Odor Control Systems

About Us

Eflo Air Treatment Solutions, a division of Eflo UK International has been providing odor control systems in the Middle East for over 10 years. Eflo Air Treatment Solutions is one of the leading suppliers of odor control plants for industrial and municipal applications. With a dedication for efficiency and performance, our experts have been able to drive development to adapt, optimize, and integrate the best technologies for customers. Eflo Air Treatment Solutions provides standardized, as well as turnkey custom odor control systems for municipal sewer systems, sewage treatment plants and industrial applications.



Mission

Committed to eliminating air pollution through providing effective air and odor treatment systems that can reconcile the ever growing demand for better air quality.

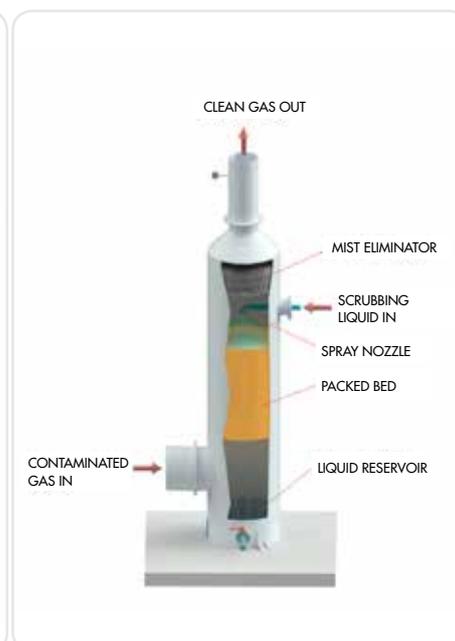
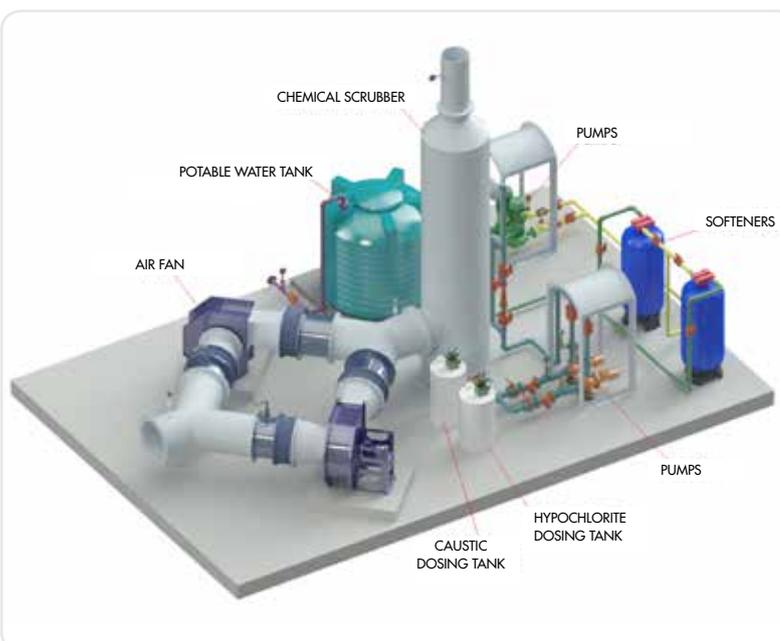
Vision

To be the supplier of choice for environmentally sustainable, robust, and economical air treatment solutions for municipal and industrial applications.

Technologies Offered

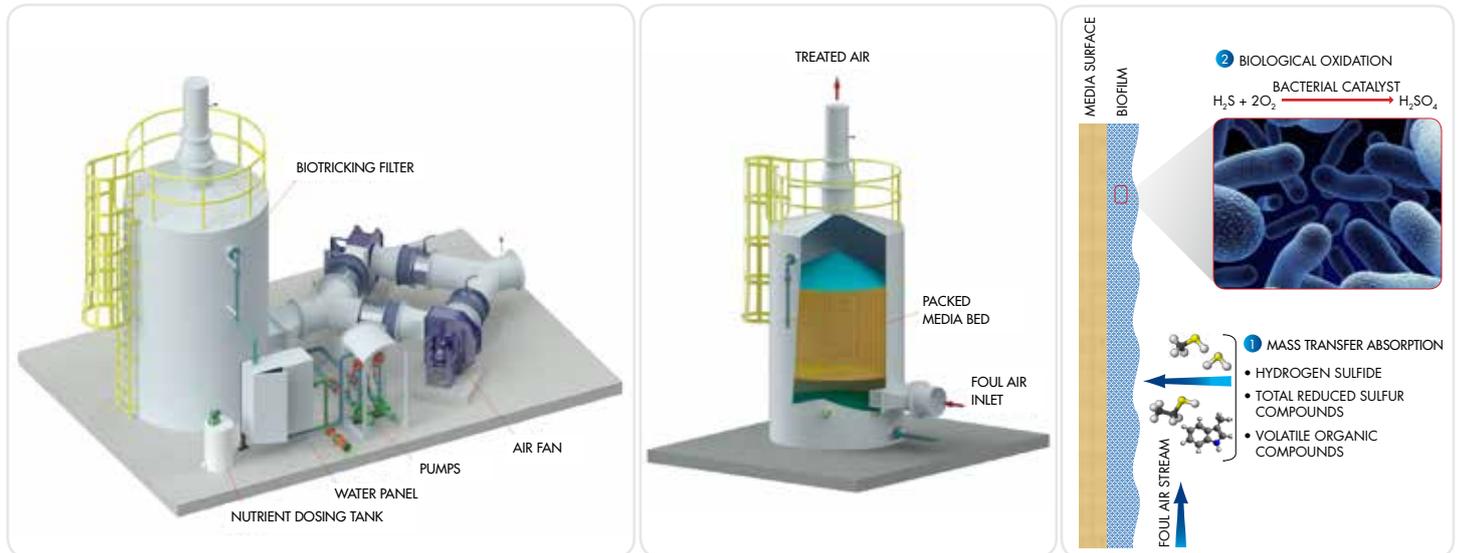
Chemical Scrubbers

Chemical scrubbers achieve odor removal by the mass transfer absorption via the contact of air stream with aqueous solution on random packing material in a scrubbing chamber. The liquid is typically water, adjusted to the proper pH to optimize absorption, with the addition of oxidizing agents which neutralize the pollutants.



Biological Oxidation

Biological oxidation is a process by which the micro-organisms consume dissolved oxygen and organic/inorganic substances in foul air streams, using the energy released to convert carbon into carbon dioxide and cellular materials. Biological systems achieve odor removal by a two - step process; 1) Mass Transfer Absorption via contact of the air stream with biofilm on the packing material in the vessel, followed by 2) Biological Oxidation of the odor compounds by the biomass.



Adsorption

Adsorption is a surface-based process, where atoms, ions or molecules from a gas, liquid or dissolved solid adhere to a surface. The exact nature of the bonding depends on the details of the species involved, but the adsorption process is generally classified as physisorption (characteristic of weak Van Der Waals forces) or chemisorption (characteristic of covalent bonding). In terms of odor control, adsorption typically refers to the use of activated carbon to adsorb odorous compounds into the activated carbon material. This is usually accomplished by passing the odorous air across a bed of activated carbon, allowing the adsorptive process to occur, and releasing the clean air into the atmosphere.



Applications

Typical odor emission control applications are used for the removal of odor at sewage treatment plants (STPs) and sewage network pumping stations. There are several sources of odor emission at STPs, these include lift station wet wells, screen chambers, grit removal, sludge dewatering, and sludge drying. Municipal wastewater odors consist of Total Reduced Sulfur Compounds (primarily Hydrogen Sulfide), Volatile Organic Compounds, Ammonia and Amines.

Services

- Site surveys
- Engineering and design
- Fabrication
- Turnkey installation
- Commissioning
- Operation and maintenance



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