

For over 60 years, Gulf Cryo has been manufacturing and supplying industrial, medical and specialty gases to a wide range of industries across the Middle East. Established in 1953 as the Kuwait Oxygen and Acetylene Company, the Gulf Cryo group now comprises of over 30 production and distribution sites operating in 12 countries, including all of the GCC, Jordan, Syria, Egypt, Iraq, Turkey and Austria.

CO₂

O₃



Water Treatment Gas Applications

O₂



Our Services

Gulf Cryo offers several services to the wastewater industry in order to improve the overall performance of the treatment process and make it environmentally friendly. Our experts work closely together with customers in order to achieve tailor-made solutions that target their needs directly.

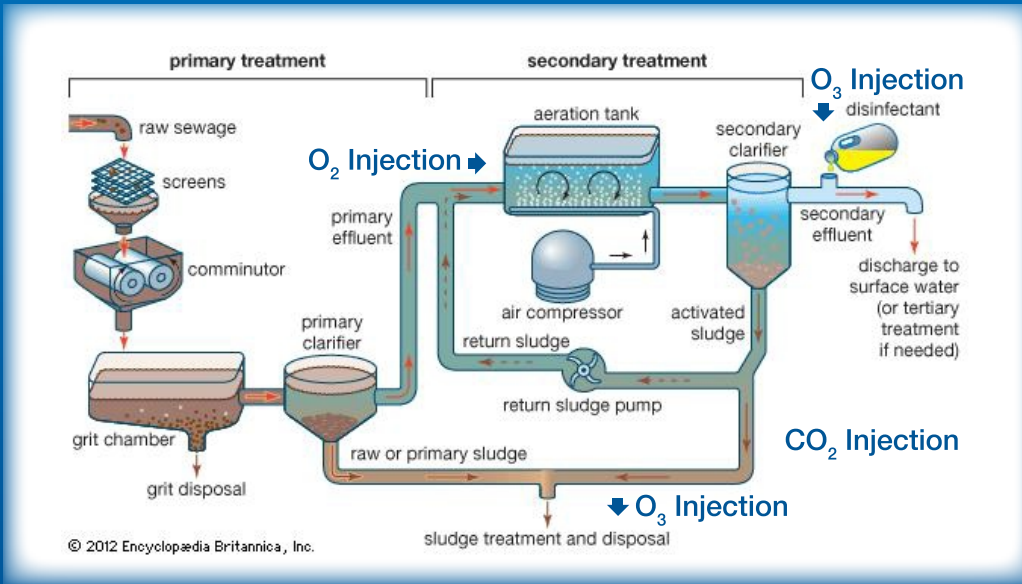
The Industry Challenge

The wastewater industry strives to reach the highest possible yields while minimizing energy and material costs. Currently, the major challenge for the treatment plants is reaching a full capacity and not being able to accommodate for the increasing demands.

Due to the increasing environmental regulations, a new challenge has also emerged and it consists of minimizing the usage of chemicals, while retaining the efficiency of the process and the quality of the product.



progressive by nature



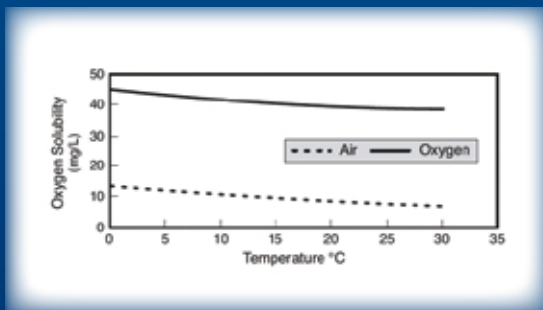
Pure Gases	Purity
Oxygen (O2)	99.5%
Carbon Dioxide (CO2)	99.9%

For Ozone requirements, on-site ozone generation is set up along with Oxygen supply.



Benefits of Oxygen Injection Compared to Standard Aeration

- Increases treatment capacity using the same facility, without the need for additional investment
- Reduces odors & volatile organic compounds emission
- Saves up to 40% in energy and operating expenses
- Reduces Hydrogen sulfide (H2S) formation
- Reduces aerosol formation
- Improves sludge settling
- Complies with stricter water discharge standards
- Diminishes hydraulic breakdowns

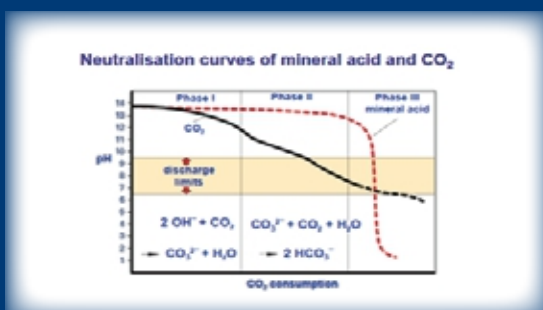


Benefits of Ozone Injection Compared to Standard Chlorination

- Enhanced disinfection as Ozone is the most effective disinfectant
- Removal of organic & inorganic matter, including micro-pollutants such as pesticides
- Reduction of sludge by up to 80%
- Odour and taste elimination

Benefits of Carbon Dioxide Injection Compared to Standard Acidification

- Eco-friendly, safe and simple pH control
- No possibility of overdosing
- No handling of hazardous acids
- Low investment & operating costs
- No corrosion problems



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