

ANAEROBIC REACTORS



PRE-TREATMENT HIGH LOAD

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Anaerobic Reactors are designed for the treatment of waste and wastewater with high organic content. Anaerobic technology is a cost effective solution for treating industrial effluents which enables you to comply with discharge limits and produce biogas for beneficial in energy recovery.



HOW IT WORKS

The main principle of anaerobic treatment is the usage of anaerobic biology, the biomass, to convert the organic degradable compounds (COD or BOD) into biogas in an oxygen absent environment. Typical conversion rates of the COD/BOD is between 70 – 95%. The biogas generated consists of mainly methane gas, carbon dioxide, and water vapor with trace amounts of hydrogen sulfide.

There are numerous anaerobic technologies available at Ovivo dependent on the waste/wastewater that needs to be treated and digested. Those technologies range from conventional CSTR systems, to granular high rates systems, to anaerobic flotation reactors.

APPLICATIONS AND MARKETS

- Food & Beverage
- Chemical
- Biofuels
- Agricultural
- Municipal
- Pulp & Paper
- Treatment of high strength industrial wastewaters
- Digestion of solids

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FEATURES & BENEFITS

- Net energy producer from creation of biogas
- Reduced CO2 emissions
- Lower waste sludge production
- High organic loading rates
- Reduce footprint

