

Simply: “All-In”!



It's a unique anaerobic process, suitable for a wide range of high strength, warm industrial wastewater types containing lots of suspended solids and/or fats and oils. FLORA[®] can treat these without the need for typical pre-treatments for solids-, fat- and oil removal.

FLORA[®] “All-in” process is capable of degrading both, suspended and dissolved forms of contaminants, at a unique high efficiency (typically above 90% overall COD/BOD reduction). The main features are:

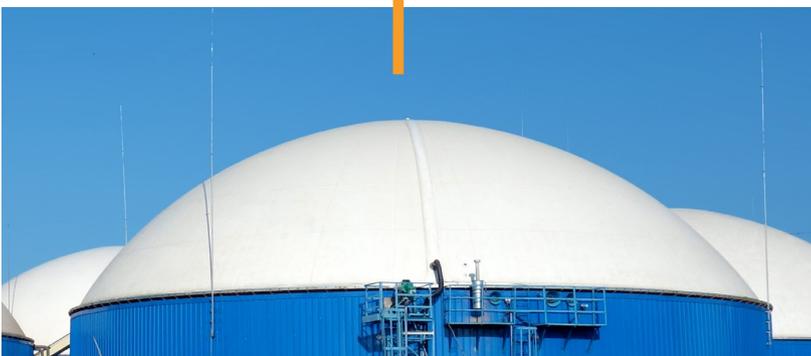
- Use of high concentrations of flocculent anaerobic sludge, to allow for small reactor volumes and low CAPEX.
- Unique phase separation system (external, for operational security)
- Robust, adjustable mixing technology, using multiple mixers
- Integrated biogas buffer
- Integrated chemical-free biogas desulphurization



FLORA® reactors uniquely combine wastewater treatment, biogas buffering, and biological biogas desulphurization. Three-in-one, allowing for surprisingly low investment costs and simplifying construction and operation. Yet, there are further important advantages, just to highlight a few:

- Reduction on needs for physical pre-treatment
- Elimination or, a significant reduction on chemical needs of pre-treatment
- By elimination of Physical-Chemical pre-treatment, FLORA® also eliminates the production of chemical primary sludge or flotation sludge and all related hassles and high costs for treatment and disposal of these.
- Instead of having to produce primary sludge or DAF sludge, FLORA® degrades all organic components of inlet solids and fats and converts these into valuable biogas.
- Consequently the overall sludge production of the wwtp reduces substantially
- Flat type of reactors allowing for low construction costs and use of any available tank materials (concrete, steel, stainless steel, glass-lined steel).
- No need for costly, special reactor internals, low CAPEX
- An overall very high COD/BOD efficiency (90-95%), drastically reduces discharge costs
- FLORA®'s high efficiency also reduces or eliminates the need for secondary biological treatment and all related CAPEX and OPEX

Vogel typically offers FLORA® for Dairy-, Starch-, Paper industries, Renderies, etc.



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