Algaewheel exclusively from ONEWATER Treatment redefined

algaewheel

FOOD & BEVERAGE INDUSTRY

Advanced Carbon Neutral Wastewater Treatment Solutions

Algaewheel is a Rotating Algal Contactor (RAC) that uses biological aeration to supercharge treatment performance and reduce energy use. Algaewheel is a highly competitive, simple-to-operate, low-carbon, wastewater treatment solution with lower OPEX than conventional systems.

Algaewheel's RAC provides the aerobic process in an industrial treatment system to reduce influent CBOD from <1,000mg/l to as low as 10mg/l. This facilitates;

- ✓ Surcharge-free discharge to municipal sanitary sewers
- ✓ Surface or subsurface discharge as required by permit
- ✓ Reduced nutrient levels to meet increasingly stringent discharge limits

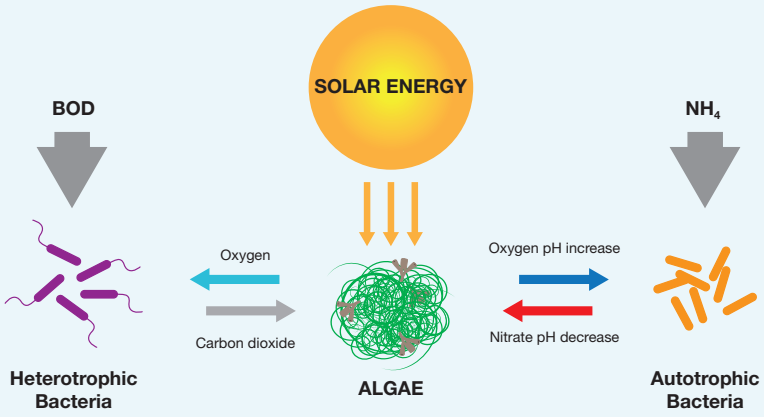
Applications

- Upgrades to meet low-energy, low-carbon requirements
- Effluent polishing - to meet increasingly stringent limits
- Capacity expansion
- New facilities
- Contaminant removal

POWERED BY algaewheel

algaewheel®

Algaewheel is an award-winning, sustainable treatment technology that mimics naturally occurring algal-bacterial biofilms found in rivers and streams. Algal photosynthesis boosts oxygen levels, reducing the costs associated with aerobic treatment.

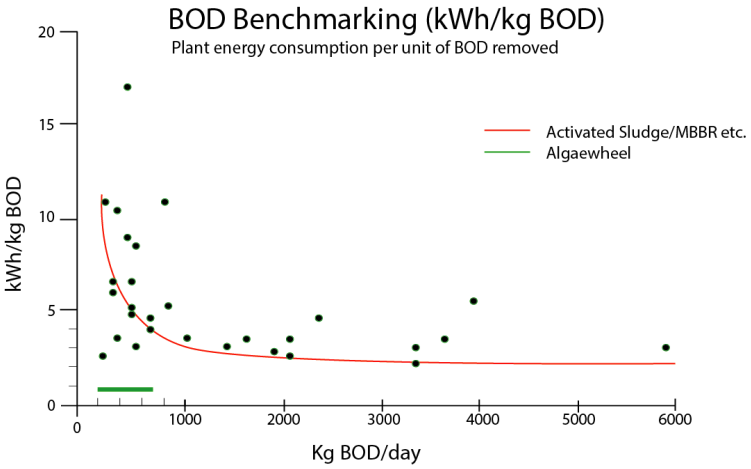


- Algal photosynthesis, produces O_2 and consumes CO_2 produced by the bacteria
- Nitrogen and phosphorus are assimilated
- Metals are sequestered in the solids

The Algaewheel system is designed to support the growth of algae in the biofilm. This results in some important benefits:

- ✓ Carbon neutral treatment
- ✓ Sequestering atmospheric CO_2
- ✓ Ultra-low energy and OPEX

Algaewheel RAC Power Advantage



Biological aeration enables Algaewheel to use 80% less energy (on average), than competing processes in systems of <0.5mgd. $C0_2$ emissions reductions track energy use.

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www.algaewheel.com