

Hybrid Attached Growth Technology



Changing the look of wastewater treatment

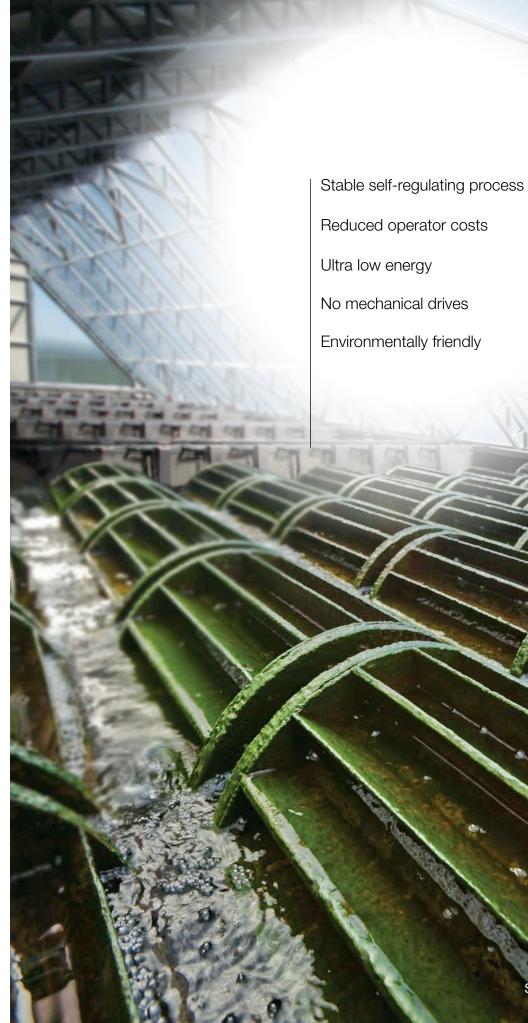
Algaewheel is an award winning technology that sustainably solves the problems of distributed treatment



- Socially acceptable
- No odor
- No noise
- Cost effective

Algaewheel is a hybrid technology that integrates algae into a proven process to enhance treatment efficiency





Southwestern Schools, Indiana 201

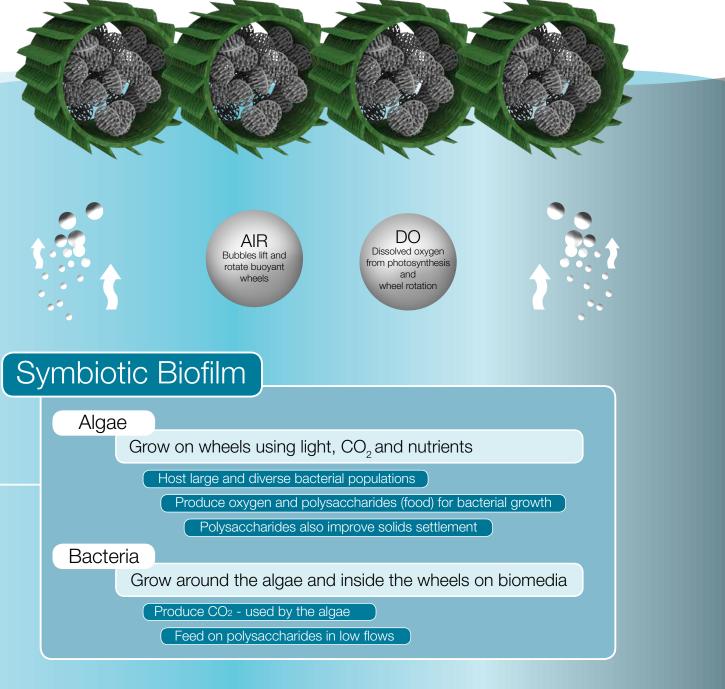


CO $O_2 + Sugar$

Stable, self regulating process

Photosynthetic Algal Biofilm



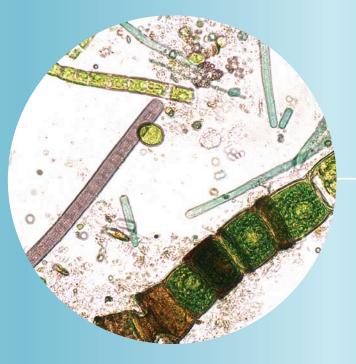


The photosynthetic algal biofilm which forms on the Algaewheels cultivates and sustains a large and diverse algal and bacterial ecosystem that provides enhanced treatment performance.

Over millions of years, algae and bacteria have developed an intricate relationship where the by-products of one group are the inputs for the other. Algae grow on rotating wheels, using light, CO₂ and nutrients. Algae produce oxygen, consume carbon-dioxide, and generate polysaccharides (sugars). Bacteria consume the oxygen and sugars and produce carbon dioxide - completing the cycle.

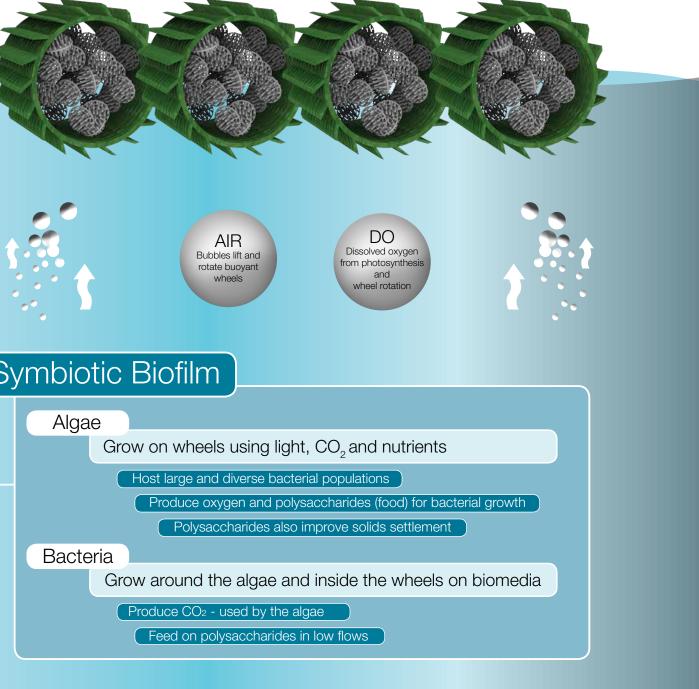
When subjected to light, the algal biofilms become saturated with oxygen. When combined with wheel rotation, high dissolved oxygen (DO) levels enhance BOD reduction and nitrification.

A small air blower generates bubbles that lift and slowly rotate the buoyant Algaewheels.



Biofilm containing algae and bacteria at 400x magnification





The synergy between algae & bacteria maintains effective treatment during variable flows and loads

Algaewheel will optimize your overall treatment performance





Rapid site installation



Algaewheel Tank Modules Precast concrete tanks delivered preassembled with Algaewheels and associated components, ready for placement and connection.

Modular construction ...simply a smarter way



www.algaewheel.com



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