PRODUCT

BioGill Tower

Above ground, attached growth bioreactor for water treatment

The BioGill Tower is the next generation biological water treatment bioreactor used to improve the quality of a variety of water streams. The patented nano ceramic media, known as gills, provide ideal oxygen rich conditions for microorganisms to rapidly grow and multiply.

The module supports a biofilm that actively reduces soluble BOD, COD, ammonia and total nitrogen as well as Fat, Oil and Grease (FOG). Unlike traditional systems, the BioGill Tower does not require energy hungry blowers or aeration, resulting in significant energy savings.

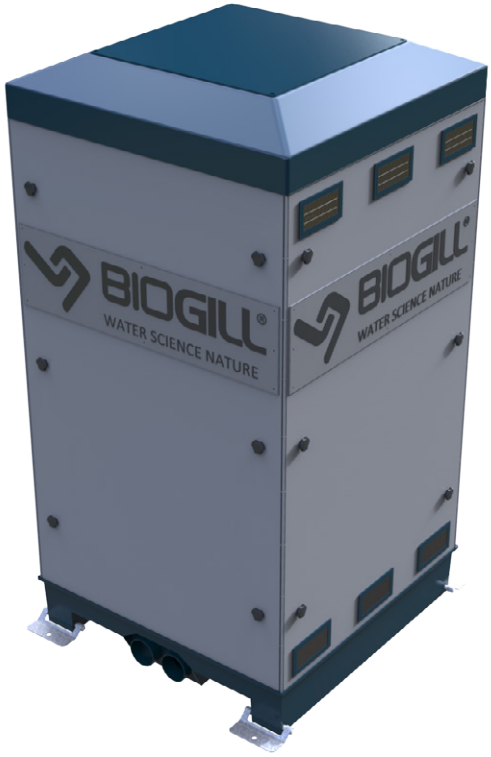


Figure 1. BioGill Tower module

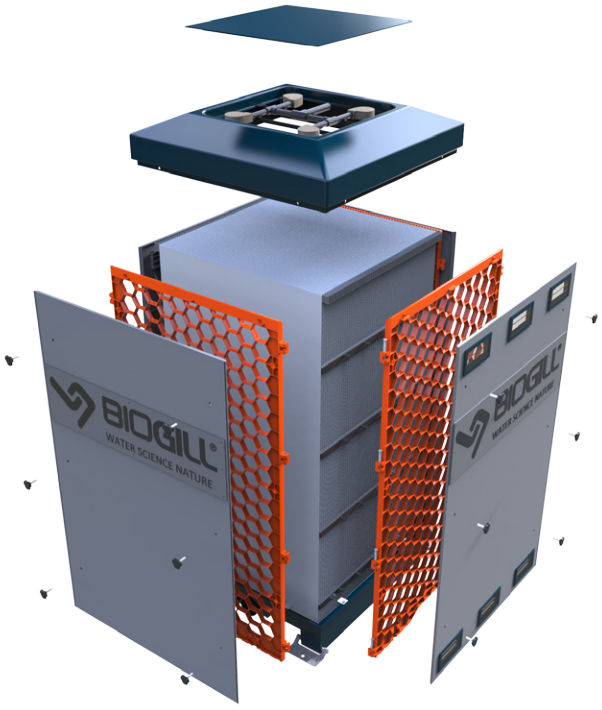
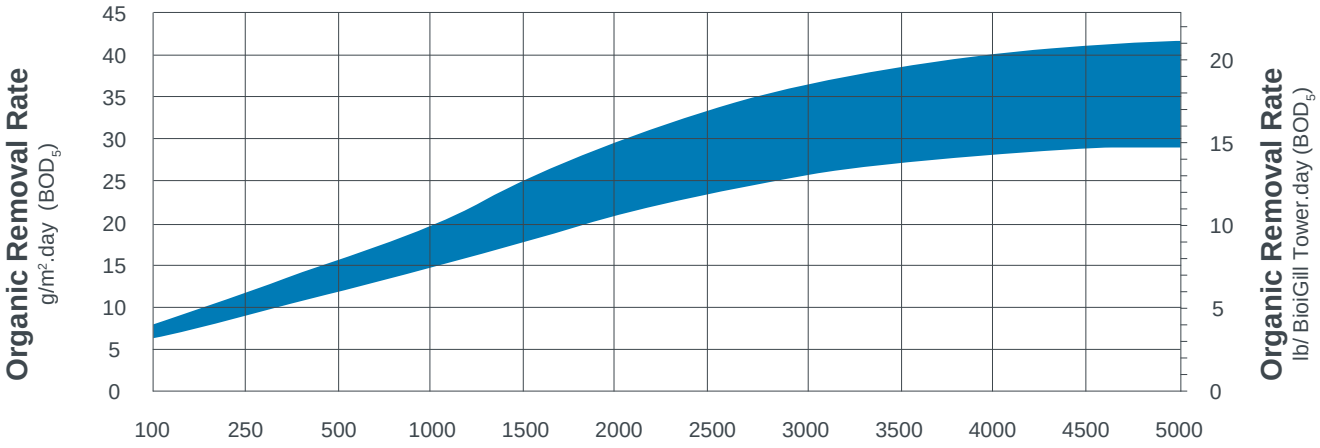


Figure 2. Exploded BioGill Tower module

KEY DESIGN FEATURES - BIOGILL TOWER

- **Strong & durable**
- **Clean & safe operation**
- **Patented HydroSwirl™ dispersal**
- **Easy to dissemble & transport**
- **Flat pack option for onsite assembly**
- **No blowers or powered aeration**

Guide for organic removal rate at differing influent concentrations



Influent Organic Concentration ppm (BOD_5)

This performance graph is based on data accumulated from projects usuing the BioGill Tower treating a variety of wastewater including confectionery and beverage processing, breweries, wineries and sewage. Actual performance may vary.

OPERATING & DESIGN INFORMATION*	**Temperature range**	65-100 °F / 18-37°C
	Biological pH range	6.5 – 8.5
	Chemical Resistance pH Range	4 – 10
	Nutrient Quality	Preferred C:N:P ratio of 100:10:1
	Required pre-treatment	⅛" / 3mm Fine Screen**
	Flowrate per module	Dispersal system dependent
	*Consult BIOGILL for information about specific applications **General recommendation - can vary depending on influent composition	
NOMINAL DIMENSIONS & WEIGHT	**Media Area**	2475ft² / 230m²
	Depth	45.47" / 1155mm
	Width	45.47" / 1155mm
	Height	88.7" / 2252mm
	Minimum Height Clearance	23.6" / 600mm
	Dry Weight	440lbs / 200kg
	Wet weight	1650lbs / 750kg (approx.)
CONNECTIONS	**Inlet Connection**	2" / DN50 PVC piping
	Outlet Connection	4" / DN100 flexible coupling

KEY BENEFITS

- Effective & rapid treatment of soluble organics
- Boost performance of existing plants
- Resistant to shock loads, FOG & high organic waste streams
- Low energy & operating costs
- Low odor

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Case studies and technical reports are available at www.biogill.com

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