

BioGill Tower



Above Ground, Attached Growth Bioreactor For Wastewater Treatment

The BioGill Tower is a bioreactor for the secondary/biological stage of the treatment train. Simple to install, easy to operate with minimal maintenance requirements, this unit is ideal for Food and Beverage producers such as breweries and wineries with low volume, high BOD wastewater.

The BioGill Tower can also be used for small scale municipal and decentralized sewage treatment.

This is the smallest bioreactor in the BioGill range, designed to fit tight spaces or be raised on a platform to reduce the footprint.

The unit is ideal too as a performance and capacity boost to an existing wastewater treatment plant.

At the core of the BioGill Tower is patented nano ceramic media, known as gills, which provide the ideal habitat for microorganisms to grow, multiply and establish into a self-sustaining biomass. This biomass actively reduces soluble BOD, COD and nitrogen, as well as Fat, Oil and Grease (FOG).

Unlike traditional systems, the BioGill Tower does not require blowers or powered aeration, resulting in significant savings.

Key Features

- “Plug & play” for quick installation
- Modular & scalable, combine units as flow increases
- Easy to operate with low maintenance
- Patented HydroSwirl™ dispersal
- Flat pack options for onsite assembly
- No blowers or powered aeration

BioGill Benefits



Meet compliance & discharge limits



Boost performance of existing plants



Resilient to shock loads & flow fluctuations



Save on surcharges

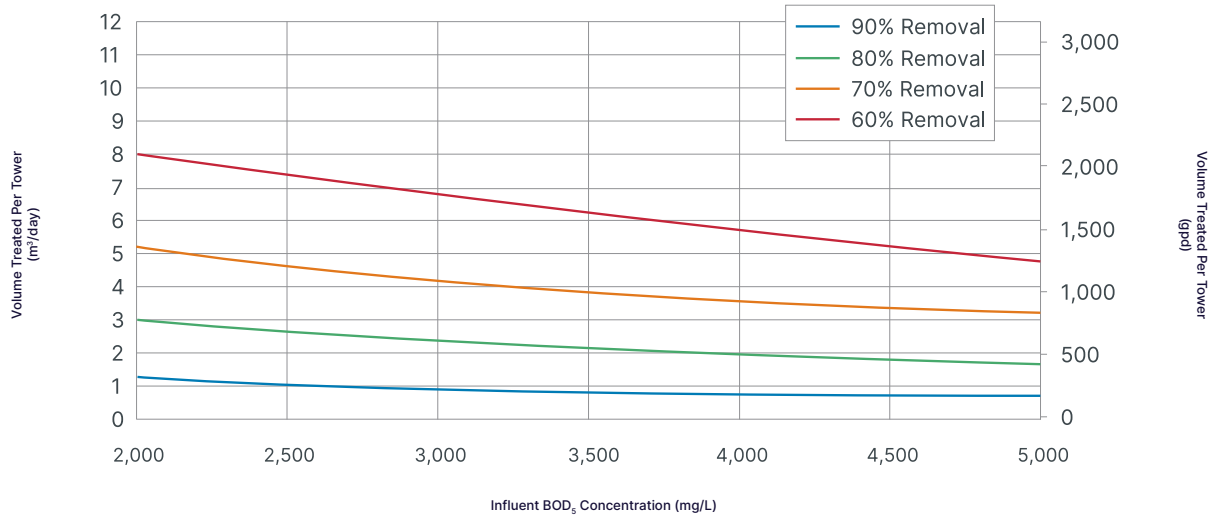


Reduce odor



Compact footprint modular & scalable

Performance Guide | BioGill Tower



These performance graphs are to be used as a sizing guide only. Actual performance is determined by site specific factors and may vary. The above information is based on the following; a continuous flow system; brewery wastewater and water temperature at 86°F | 30°C. Removal rates and reductions are based on soluble BOD only. BioGill and its authorized representatives do not guarantee performance unless stated otherwise. For detailed system sizing or for information on projects outside these influent parameters, please contact your authorized BioGill representative.

Technical Specifications

		Value (Imperial)	Value (Metric)
OPERATING AND DESIGN INFORMATION*	Temperature range (water)	65-100°F	18-37°C
	pH range	6.5-8.5	
	Optimum C:N:P ratio	100:10:1	
	Required pre-treatment**	Influent TSS <300mg/L Maximum FOG <100mg/L	
	Recirculation flowrate per unit***	33-44gpm	7.5-10m ³ /hr
NOMINAL DIMENSIONS AND WEIGHT	Gill Surface Area per unit	2474ft ²	230m ²
	Length	45.47"	1,155mm
	Width	45.47"	1,155mm
	Height	88.7"	2252mm
	Footprint	14.76ft ²	1.37m ²
	Minimum height clearance	23.6"	600mm
	Dry weight	529 lbs	240 kg
Wet Weight (high load approx.)	2,200lbs (approx.)	1,000 kg	
CONNECTIONS	Inlet connection	2" BSP male threaded fitting	DN50
	Outlet connection	4" Flexible Coupling	DN100

*Consult your authorized BioGill representative for information about specific applications. **General recommendation - can vary depending on influent composition. ***Optimal operating flowrate.

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

