

BioG

BIOLOGICAL SYSTEM



FEATURES

- Unique, patented design
- Fully automated, programmable, and self-contained
- Worry-free operation, 24/7
- Dosing cycle delivers an unprecedented 31 trillion active microbes
- Integrates with all existing wastewater treatment equipment
- No free enzymes or surfactants which liquefy grease
- Small size makes installation easy!

BENEFITS

- Reduces effluent COD, BOD, and TSS
- Lowers surcharges
- No capital investment required
- Consistent Wastewater Treatment Plant operation and effluent performance
- Reduces operation and maintenance costs
- Reduces odors
- Allows for customized treatments on-site



INDUSTRIES SERVED

Pulp & Paper
Hydrocarbon
Food processing
Municipal
Beverage
Chemical Manufacturing



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PRODUCT SPECIFICATIONS

- Dimensions —
H-28.5", W-18.5", D-9.25",
Door Front Clearance-26.0"
- Painted metal cabinet with locking door —
16 gauge steel
- 24VAC circulating pump and valves
- 24VAC air pump
- Hopper and Feeder Mechanism
(ABS material) for Tablet dosing
- Polypropylene growth vessel
- Control panel with software programming
- Potable water atmospheric vacuum
breaker
- Interconnecting piping for water supply
and drain connections
- Designed for:
 - Wall mounted operation with supplied
hanging bracket
 - Counter top operation
 - Under counter operation

INSTALLATION REQUIREMENTS

The BioG requires the following conditions for proper installation and operation:

1. Ambient temperatures between 70-90°F
2. Protection from precipitation, water
spray or excessively humid conditions
3. 110V electrical supply — within 6 feet of
unit
4. Cold city water (preferably from hose bib
connection) within 10 feet of unit

MODE OF OPERATION

Following initial set up, the system functions automatically to produce approximately one gallon of the desired fermentation product each 24 hours as provided by the controller following these steps:

1. Dispense the finished product into the
desired waste stream location —
approximately one gallon of vegetative
organisms
2. Perform predetermined rinsing and
cleaning operations to remove any residual
product
3. Feed the required tablet dose into the
growth vessel — Feeder Mechanism
rotates up to collect tablets from Hopper
and dumps into the growth vessel based
upon the predetermined doses selected.
The vibrator is activated to maintain tablet
flow during feeder operation.
4. Adds the correct amount of water to the
growth vessel — fill level sensors
determine correct water level regardless
of water pressure changes
5. Start the circulating pump to grow the
next batch of product — tangential flow
entering the growth vessel creates a
vortex to maintain dissolved oxygen and
eliminate foaming.
6. System continues to circulate the
fermentation liquid guaranteeing complete
mixing with virtually no shear. At the
predetermined interval, the cycle repeats
automatically for up to 45 days.



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