



GEM® System

The Best In Class Primary Wastewater Treatment

The GEM (Gas Energy Mixing) System utilizes a unique approach to flocculation and flotation technology and outperforms other dissolved air flotation systems. Instead of relying on a random collision process, GEM System technology manages it by dissolving air into 100% of the waste stream.

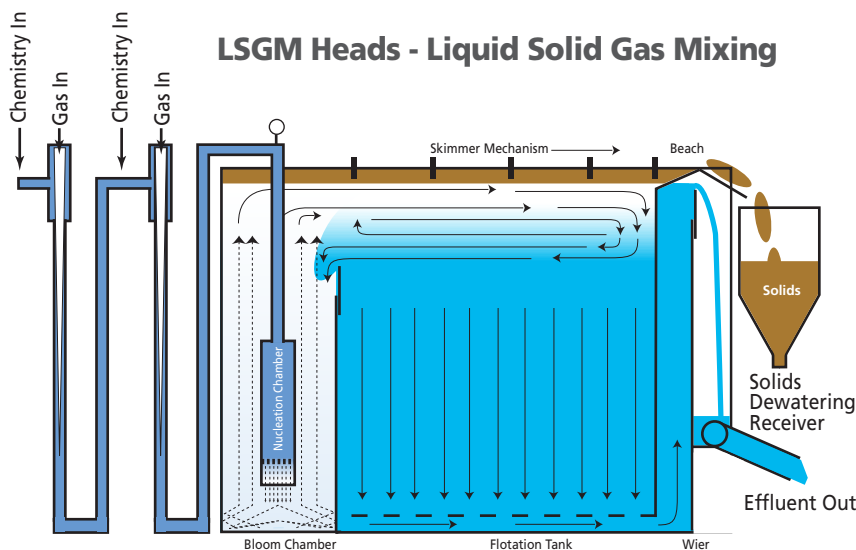
Clean Water Technologies (CWT) guarantees the highest removal efficiencies of total suspended solids (TSS), fats, oils and grease (FOG), and the suspended portion of chemical oxygen demand (COD) and biological oxygen demand (BOD).

GEM System Advantages

- High contaminant removal
- Drier sludge
- Cleaner effluent
- Less space requirements
- Easy installation
- Easy operation
- Adapts to differences in loads and flows
- Low energy consumption
- Low chemical usage

Patented LSGM

(Liquid Solid Gas Mixing) heads create energy that mixes air into 100% of the waste stream creating a vortex effect that separates solids from liquids before reaching the skim tank.





CWT

CLEAN WATER TECHNOLOGY



GEM® System

Characteristics

Material: Stainless steel

Size: Compact design fits into a variety of spaces from only 6.5 feet (1.9 m) for flows up to 30 GPM (6.8 m³/h) and 42 feet (12.8 m) for flows up to 3200 GPM (726 m³/h.)

Peripherals: Optional add-ons.

- Screens
- EQ tanks
- pH Systems
- Automatic chemical systems
- Platforms/catwalks



Reference Flow Range (gal/min)	Flow range (m ³ /h)
5/30	1 - 7
20/75	4.5 - 17
75/150	17 - 34
150/300	34 - 68
400/800	90 - 181
800/1600	180 - 363
1600/3200	363 - 727

Easy to Own and Operate - Primary Wastewater Treatment System

CWT's GEM® Systems are available in eight (7) standard models capable of processing wastewater from 5 GPM to 3,200 GPM.

Platforms/catwalks fabricated to the GEM System are provided specifically for safety and access.

The systems can be affordably purchased or leased. CWT offers on-site demonstration units that prove the performance of the GEM System in real world situations for a try-before-you-buy certainty.

Due to more efficient chemical usage, better contaminant removal, drier and renewable by-products - all in a smaller footprint - CWT clients find the GEM System to be a sustainable asset and a sound investment in their plant.

GEM System technology can also be used to retrofit existing DAF units to expand hydraulic and contaminant loading capabilities. Containerized systems are also available in small sizes.

CWT's goal is to always provide our clients with the best product for cleaning wastewater in the most sustainable manner.

Ask a CWT Project Manager which option is best for your needs.

Ready to Get Started?

Contact us today to begin a conversation!



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