CWT
CLEAN WATER TECHNOLOGY

GEM® System

PRIMARY WASTEWATER TREATMENT

GEM System

Achieve Superior Results with CWT's Premium Primary Wastewater Treatment

Revolutionize your industrial operations with the cutting-edge GEM (Gas Energy Mixing) System. Our innovative approach to flocculation and flotation surpasses traditional DAF (dissolved Air flotation) Systems.

You can now experience phenomenal efficiency with the GEM System while saving CAPEX (capital expenditures) and OPEX (operational expenditures). Unlike random collision processes, **the advanced GEM System technology ensures the complete dissolution of air into 100% of the waste stream** optimizing performance and delivering extraordinary results.

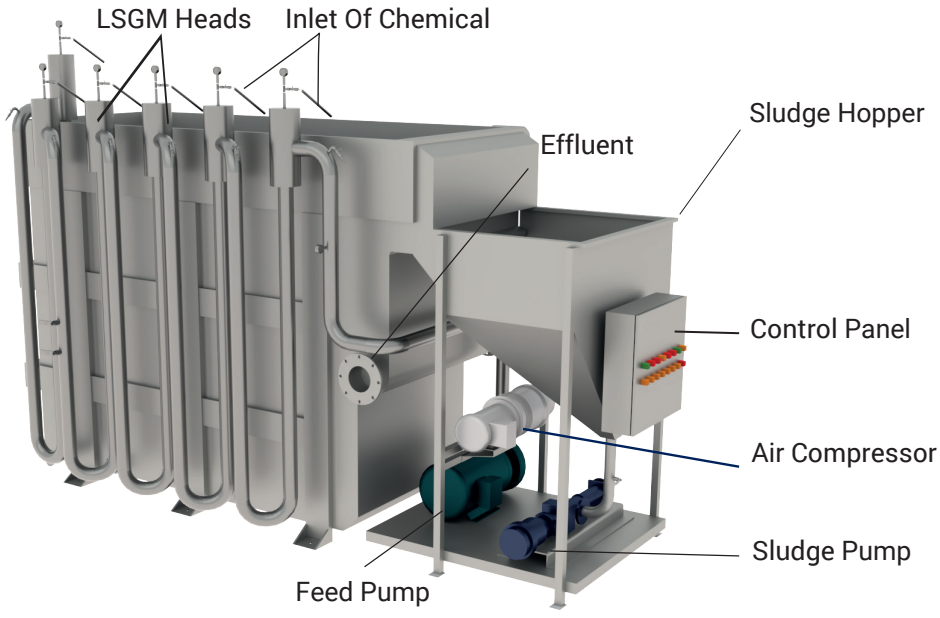
The GEM System ensures unrivaled removal efficacy for Total Suspended Solids (TSS), Fats, Oils, Grease (FOG), and the Suspended Components of Biological Oxygen Demand and Chemical Oxygen Demand (BOD/COD).

GEM System Advantages

- Best removal rates
- Flexibility to changing hydraulic and contaminant loadings
- Chemical savings of 20% to 80 %
- Smaller footprint
- Sludge content between 8% to 12% Over 20% drier sludge after decant

Patented LSGM

Our innovative LSGM (Liquid Solid Gas Mixing) technology utilizes specialized cartridges to generate energy and achieve complete air mixing throughout the entire waste stream. By efficiently separating solids from liquids, it effectively prevents their entry into the skimmer tank, ensuring optimal performance.



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Characteristics

Material: Stainless Steel

Size: Compact design fits into spaces from only 6 1/2 feet (1.9 m) to 42 feet (12.8 M) long depending on wastewater flows and loadings.

Equipment: Each GEM System is equipped with a robust air compressor, powerful sludge pump, proprietary water feed pump, intelligent control panel, rugged skimmer paddles, motors, SS tank and hopper.

Optional add-ons through CWT:

- Screens
- EQ Tanks
- pH Systems
- Automatic chemical systems
- Platforms/Catwalks

GEM System 150/300

Before After

Effortless Ownership and Operation:
Unleash the Power of our Primary Wastewater Treatment System!

Our standard units process wastewater from 5 GPM (1.1 m^3/h) to over 5000 GPM (18.92705 cubic meters per minute), while adjustable primary mixing heads effortlessly handle variable waste streams and changing flow rates.

Procure our systems affordably through purchasing, rent-to-own, or leasing options. CWT can move expeditiously if you are in a bind, or at your pace during the design phase.

CWT's laboratory testing and onsite demonstrations are also available.

Fortify your DAF's hydraulic and contaminant loading capabilities using CWT's RETROFIT KIT. You double, or more, your flow-through while enhancing your removal rates.

For added convenience, we also provide containerized systems for various flows.

Optimize Your CAPEX and OPEX today!

Watch video

GEM

Ready to get started?

Contact us today to begin a conversation!
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