RGF®

ENVIRONMENTAL GROUP, INC.

Advanced Grease and Odor Treatment System

BIO OX LIFT STATION

BIO OX MOD Patents Pending

F.O.G. (Fats, Oil & Grease) are broken down physically, biologically and chemically to simply drain away. Odors caused by grease build up and lift stations are eliminated.

• Odor and Airborne Bacteria Destruction with Advanced Oxidation
• Automatic Operation • Self-contained • Low Maintenance • Compact - Small footprint

The Problem

F.O.G.'s-polar (Fats, Oils & Grease) from restaurants, hotels and food processors are blocking our sewer mains, creating odors, airborne bacteria, and overloading septic systems and sewer treatment plants, resulting in sewage overflow, health hazards, legal liability issues and expensive pump outs and pipe cleaning.

The Solution

RGF's Bio-Ox Grease Treatment System utilizes ten proven technologies to rapidly break down F.O.G.'s to carbon dioxide, water and small chain food sources for traditional sewage treatment. The combination of ten technologies in a compact five chamber separator assures a rapid and thorough break-down of FOGs and odors. The Bio-Ox ensures elimination of FOGs, odors and airborne bacteria problems by three redundant processes. First they are broken down physically and chemically by heavy aeration utilizing Advanced Oxidation. Second, FOGs are digested biologically by oxygen enriched bacteria, and third, residual FOGs are periodically purged with an RGF dry chemical oxidation tablet.

The Results

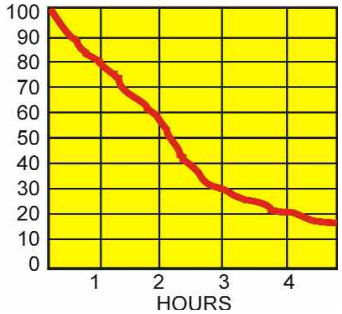
Waste Water FOG Reduction

Before After

Airborne Bacteria Reduction

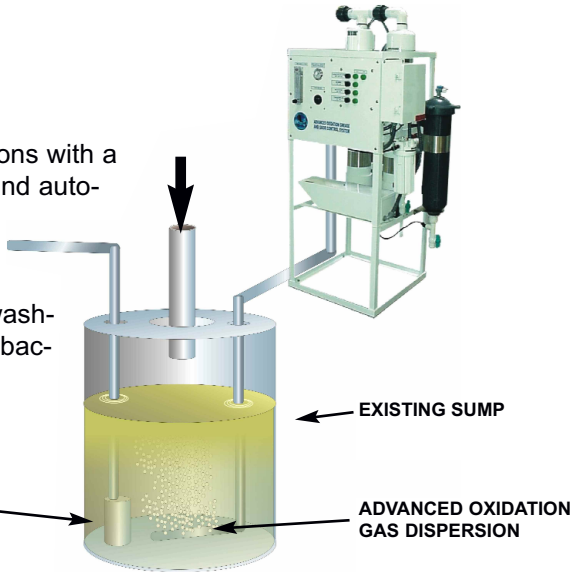
Before After

Odor Reduction
(Hydrogen Sulfide)



Lift Station Bio Ox

A compact unit designed to easily fit into the smallest of lift stations with a 24" x 24" footprint. This unit pumps advanced oxidation gases and automatically feeds bacteria into the existing lift station water. A separate photohydroionization™ cell provides ongoing odor and airborne bacteria control in the room. Lift station grease is physically, chemically and biologically broken down and freely washes away as liquid and gas. Lift station room odors and airborne bacteria are controlled.



SPECIFICATIONS

Rating	750 gallon lift station
Fresh water supply	1/4" 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 20 amps
(optional)	240 v 10 amps
Advanced Oxidation	Photohydroionization™
Bacterial Feed	Slow Release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4"
Dimensions Reactor	each 24" x 24" x 70"
Material	Aluminum & PVC
Gas Dispersion	2" PVC

Bio Ox Mod

A three-part modular system designed to fit through a standard 32" door opening and can be handled with a standard hand dolly for easy delivery into existing basements. The unit has three fluidized bed reactors and one clarifier chamber, automatic bacteria feed system, a continuous duty advanced oxidation gas aeration and odor control system, and an oxidation purge system. Also, a separate photohydroionization cell for lift-station airborne bacteria and odor control. This system is ideal for hotel basement lift station / grease trap replacement or enhancement. It provides an advanced grease digestive system and advanced oxidation gases for the lift station for odor, bacteria and FOG control.

SPECIFICATIONS

Rating	5 gpm
Fresh water supply	1/4" 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 20 amps
(optional)	240 v 10 amps
Advanced Oxidation	Photohydroionization™
Media Bed	Multi Poly
Bacterial Feed	slow release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4"
Dimensions Reactor	each 32" x 32" x 36"
Controls	18" x 24" x 40"
Material	Polyethylene PVC Aluminum

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