

www.do2e.com
Phone: 251. 937. 8200
Fax: 251 937 8400
randy@do2e.com



Removing Fats, Oils, & Grease

"Solving the World's Water Problems"

F.O.G. & Odor Solutions

Little John DIGESTER

The Little John Digester is a state-of-the-art pretreatment system for wet wells and lift stations that injects air through a specially designed air manifold system constructed of heavy-duty non-corrosive material. Atop of this specialized manifold are stationary ridges or blades. As the air travels up and through the digester cylinder, a void is created. With this Venturi effect, solids are pulled in through the bottom of the digester and across the stationary blades or ridges at the top of the unit. As the Venturi effect pulls solids up to 35 feet per second the solids are immediately broken down upon contact with the stationary ridges on top of the digester into micro-fine particulates. Once mechanically broken down the increase in dissolved oxygen combined with the micro particulates creates the perfect food source for advanced bacterial degradation. Ozone can also be injected in this cylinder, which further facili-

tates the digestion process of raw sewage before it enters the wastewater plant. The Little John Digester uses THREE means of digestion: Mechanical, Chemical and Biological. This 3 step treatment process is simultaneous and converts F.O.G into Carbon Dioxide and Water on contact.



Testimonials

“The Little John Digester has proven to remove 99.95% of FOG deposits and H₂S Found in grease traps and lift Stations.”

-Dr. J.H. Wakefield Independent Chemical & Environmental Engineer

Chemical Digestion

We recycle the existing cleaning chemicals found in grease traps and lift stations such as soaps, detergents, degreasers, stain removal solvents, drain cleaners, fabric softeners and all of the other house hold cleaners that are discarded down the drain every day. Once discarded, these unused household chemicals become stratified or separated in the water column within the lift station and have little to no effect in the digestion process. We have a unique way of blending all these existing chemicals / components together to further break down the F.O.G. deposits and other matting which commonly occurs in lift stations. This is one of the key components of our Green Technology, recycling discarded chemicals. It is estimated that the chemical digestion accounts for 20 to 25% of the digestion process that will be occurring in the lift station after the Little John Digester is installed.

Mechanical Digestion

The mechanical process works by continuously moving and impacting the solids against the stationary ridges at speeds up to 35 feet per second, and accounts for approximately 70% of the digestion process.

"The Little John has paid for itself 20 times over."

**-Pat Caffey S. Walton
Utilities**

Biological Digestion

The biological digestion process is greatly enhanced by increasing the dissolved oxygen levels and creating a bio-soluble food source in which the bacteria can quickly and easily consume. Aerobic bacteria is highly stimulated and goes on a feeding frenzy reducing the BOD and COD levels by up to 70%. The biological enhancement accounts for up to 10 to 15% of the degradation process. This entire pretreatment process also reduces odor (H₂S) by up to 80%.



"We are exceptionally pleased with the equipment and its' performance."

**-Falcon Heights Water & Sewer
District**

Features

- Removes F.O.G. (Fats, Oils, & Grease)
- Converts F.O.G. to Carbon Dioxide & Water on contact
- F.O.G. Will NOT Reform
- No Moving Parts
- Pretreats Sewage by Up To 65%
- Removes Sludge Build UP
- Removes V.O.C.'s and Heavy Metals
- Eliminates Matting
- Reduces H₂S Gas
- Reduces Pumping of Wet Wells
- Heavy Duty Non Corrosive Construction
- No Chemical Additives Necessary
- Extremely Low Noise Levels
- No Petroleum Lubricants
- Installs in 5 minutes
- No retrofitting required
- Virtually Maintenance Free
- Stops Corrosion

Before Installation



1 Hr AFTER the Little John Digester was Installed.



Money Back Guarantee!

Call To Find a Sales Rep Near You TODAY!

DO2E Wastewater Treatment
36220 Hwy 59
Stapleton, AL 36578
Telephone: 251 937 8200
Fax: 251 937 8400
E-mail: randy@do2e.com

