

# BiOWiSH™ Aqua FOG

## BiOWiSH™ Aqua FOG Treats Water with High Levels of Fat, Oil, and Grease

### Benefits

- Rapid enzyme chemistry makes fats, oils, and grease bioavailable as carbon sources, delivering fast reductions
- Reduces sludge production and handling
- Increases plant capacity; capital avoidance
- Reduces odors
- Reduces aeration requirements; energy savings
- Reduces need for chemical additives
- Improves plant stability
- Reduces hydrogen sulfide, ammonia, and nitrates
- Pre-treats influent in collection systems
- Natural and non-toxic

### Delivery Systems

- Drip fed through a mixing tank and dosing pump
- For specs on recommended dosing unit configurations please visit [biowishtech.com](http://biowishtech.com)

### Uses

- Grease traps
- Food processing
- Lift stations and sewage networks

### Available Sizes

- 100 g
- 1 kg
- 5 kg
- 10 kg

### How BiOWiSH™ Aqua FOG Works

BiOWiSH™ Aqua FOG contains the same powerful biological consortia formulated into BiOWiSH™ Aqua, with the addition of a natural tensioactive to promote biological action at the water/FOG interphase.

BiOWiSH™ Aqua FOG is specially formulated for wastewater or influent streams with fat, oil, and grease content over 100mg/L. This product significantly improves the efficiency of aerobic treatment systems, dissolved air flotation units, oil water separators, and grease traps.

### Natural Surfactants

BiOWiSH™ Aqua FOG is formulated with natural surfactants to work on effluent with high FOG levels and to increase biodegradability potential. BiOWiSH™ Aqua FOG organisms have been selected for their capacity to rapidly express lipase and esterase enzymes, along with the natural tensioactive, and rapidly degrade different ester bonds making FOG material available as an energy source for existing biology.

### Catalytic Action Causes Rapid FOG Degradation

BiOWiSH™ Aqua FOG is not an enzymatic product. BiOWiSH™ Aqua FOG uses live microbial cultures to generate the required enzyme chemistry in situ, resulting in rapid FOG degradation and preventing downstream solidification of fats ensuring pipework remains free flowing.



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## Additional Information

### The Cost of High FOG

FOG (Fats, Oil, and Grease) accumulate over time and are largely insoluble. They form a layer over the wastewater, decreasing dissolved oxygen (DO) content.

#### High FOG wastewater can:

- Potentially damage the system
- Incur costs due to additional processing and regulatory fines

Businesses that expel high FOG and BOD wastewater, like many food processing facilities, can spend tens of thousands of dollars per month on FOG removal. BiOWiSH™ Aqua FOG effectively improves wastewater by reducing BOD, COD, TSS, as well as FOG.

#### The Effects of BiOWiSH™ Aqua FOG in a Fast Food Restaurant Grease Trap:

	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	FOG (mg/L)
<b>Day 1</b>	10,544	26,361	18,100	272
<b>Day 15</b>	1,450	3,262	1,460	24
<b>Day 30</b>	790	1,975	370	8

Goal	BiOWiSH™ Aqua FOG Action
FOG removal	BiOWiSH™ Aqua FOG with the added tensioactive is specially designed to degrade FOG levels > 100 mg/l
Odor control	BiOWiSH™ operates as an effective Facultative Anaerobe allowing it to reduce the emission of volatile organic compounds (VOC's) in grease trap systems.
Effluent quality improvement	BiOWiSH™ provides significant reductions in BOD, COD, TSS, and TKN depending on the available retention time.
Solids accumulation reduction – excess sludge generation	BiOWiSH™ speeds up solids degradation in grease traps. This reduces pump out costs.
Pipework blockage prevention	BiOWiSH™ works on the solids, fat, oil, and grease to avoid blockages in the pipe work
Ease of application	Use a dosing pump or mixing tank to drip feed

### Environmentally Friendly

- 100% biodegradable – prevents any long-term build up
- No detrimental effects on the environment, humans, plants, or animals
- Environmental toxicology studies have shown no adverse effects from the use of BiOWiSH™ products
- Aquatic toxicity testing has shown that BiOWiSH™ is non-toxic at recommended dosage levels



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#### Address

2724 Erie Avenue, Suite C  
Cincinnati, OH 45208  
[biowishtech.com](http://biowishtech.com)

#### Contact

[wastewater@biowishtech.com](mailto:wastewater@biowishtech.com)  
P: +1 312 572 6700

