



AQUAFIX Inc.

Innovations in
wastewater treatment.

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TECHNICAL UPDATE

FOAM BUSTER

Foam Buster is a blend of specialized proteins, free amino acids, and micronutrients which stimulate the floc-forming bacteria to degrade grease, emulsions, and petroleum hydrocarbon-based products and enable the bacteria to outcompete the filaments which cause foaming. Foaming filaments like *Nocardia*, *Gordonia amare*, and *Microthrix parvicella* use the fat, oil, and grease as well as their fatty acid by-products to produce a buoyant fatty cell wall. Foam Buster provides the naturally occurring bacteria a chance to compete.

Fighting Foam by Starving Filaments

Foam-causing, F.O.G.-hungry filaments like *Microthrix parvicella*, *Nocardia*, and Type 1863 that infiltrate SBRs, oxidation ditches, extended aeration WWTP, and aerobic digesters don't stand a chance against our newest technology. Foam Buster also works well on the bulking filaments Type 021N and Type 0092. Foam Buster starves these harmful filaments by removing their food source—fats, oils, grease, and fatty acids.

Bacteria on Steroids

The biological stimulants in Foam Buster empower the naturally occurring bacteria to rapidly digest the grease that the filaments need to survive. Foam Buster's vitamins enable certain cellular functions to accomplish this task. Once the degradation of F.O.G. and fatty acids improves, these troublesome filaments cannot survive on the dwindling food supply.

Settling Issues Solved

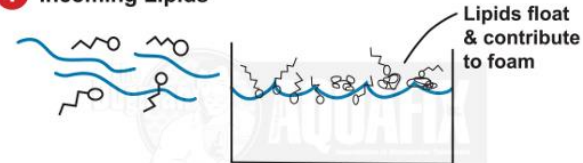
Foam Buster also contains minerals, surface-tension depressants, and natural buffering systems, all of which work together to rid your plant of surfactant and emulsion chemistries as well as F.O.G. and fatty acids.

Not a Band-Aid

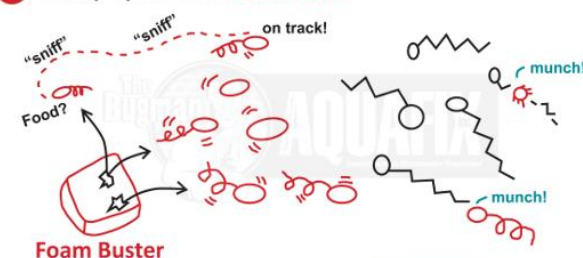
Unlike a defoaming bacterial supplement, which tends to merely cover up the foam, Foam Buster addresses the root cause of the foam and provides the bacteria with the tools they need to digest and break it up. For especially tough issues, use the synergistic combination of Foam Buster and Qwik-Zyme L. Qwik-Zyme L helps to get the grease under control while Foam Buster alters the bacteria populations so the foam will not return.



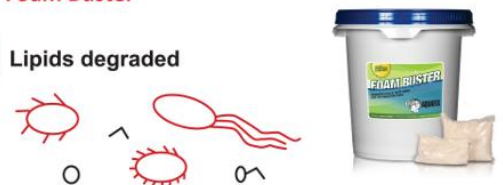
1 Incoming Lipids



2 Eat up lipids with Foam Buster



3 Lipids degraded





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TECHNICAL UPDATE

DOSE RATES

<u>Foam Buster: Foam Under 12" – 60 Day Treatment</u>		
Flow Rate	Initial Dose 30 Days	Maintenance Dose 30 Days
10,000 GPD	0.25# per day	0.25# every other day
50,000 GPD	0.5# per day	0.25# per day
100,000 GPD+	1# per day	0.5# per day
500,000 GPD+	2# per day	1# per day
1 MGD	3# per day	1.5# per day
For faster results go up to 4x this amount. Works best when regular wasting.		

<u>Foam Buster: Foam Over 12" – 60 Day Treatment</u>		
Flow Rate	Initial Dose 30 Days	Maintenance Dose 30 Days
10,000 GPD	0.25# per day	0.25# every other day
50,000 GPD	0.5# per day	0.25# per day
100,000 GPD	1# per day	0.5# per day
500,000 GPD	5# per day	2.5# per day
1 MGD	10# per day	5# per day
For faster results go up to 4x this amount. Works best when regular wasting.		