



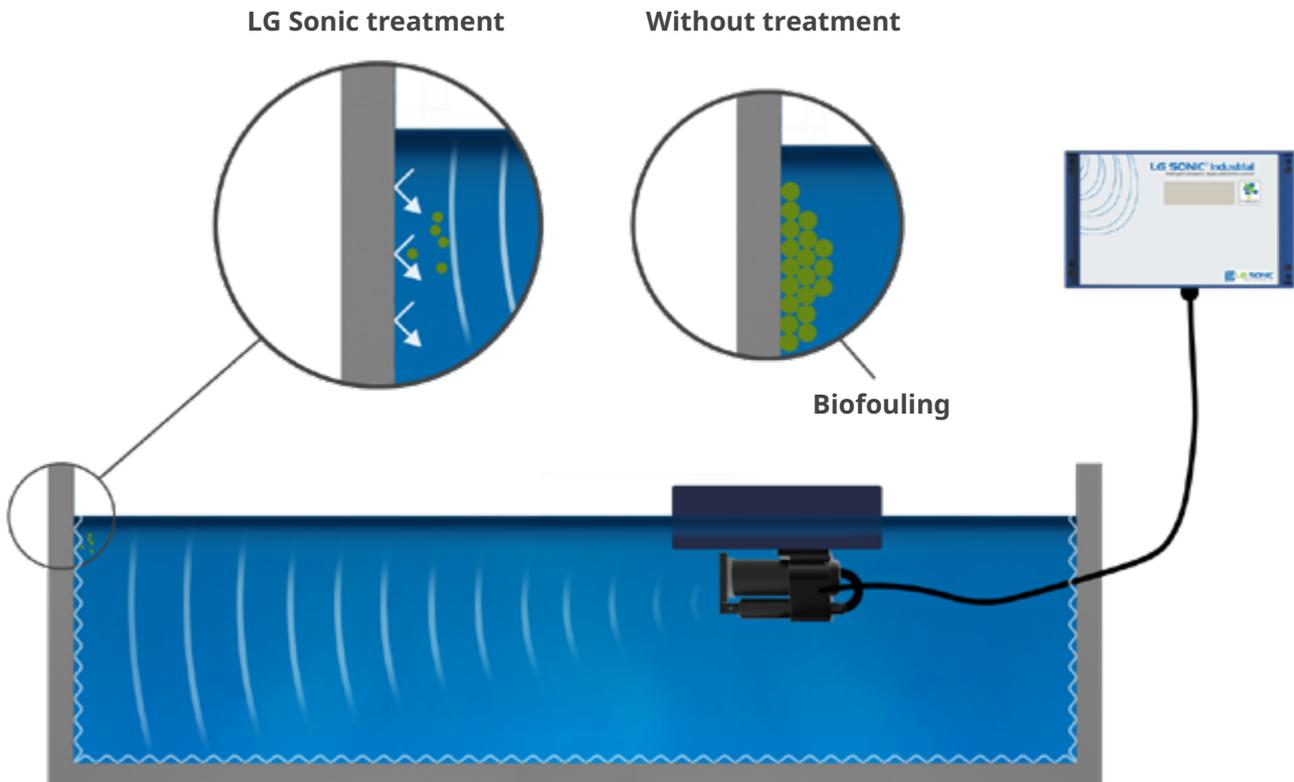
Biofouling Prevention in Water Treatment Plants

- ✔ Prevent taste and odor problems
- ✔ Lower bacterial counts
- ✔ Control fouling in sand filters and clarifiers

Biofouling Prevention in Water Treatment Plants

The LG Sonic Industrial Line provides cost-effective solutions to prevent and control biofouling through the use of ultrasonic sound waves.

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- ✔ Lower bacterial counts
- ✔ Control fouling in sand filters and clarifiers

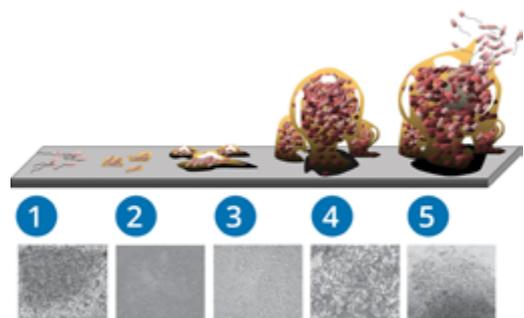


Ultrasonic treatment of LG Sonic can reduce algae growth by 70-90% and prevents the growth of biofouling

How Ultrasound can Prevent Biofouling Formation

Specific ultrasonic frequencies, waveforms and amplitudes can be utilised to directly target biofilms. Benefits of the ultrasonic treatment:

1. Prevent bacteria from settling on a surface in the primary stages of biofilm formation
2. Alter the structure of an existing biofilm, eventually breaking it down
3. Control potential algae attaching to a biofilm



Five stages of biofilm formation

[Learn more about ultrasound](#)

LG Sonic Biofouling Prevention Products

LG Sonic Industrial Wet

The LG Sonic Industrial Wet uses sound waves to prevent biofouling growth. The solution is to install one or multiple systems that transmit specific ultrasonic parameters depending on the level of contamination.

- ✔ Specific ultrasonic parameters reduce up to 70% of the biocide use
- ✔ Integrated Aquawiper™ automatically cleans the ultrasonic transmitter
- ✔ Remotely controlled, avoiding the need for frequent site visits



[Learn more about the LG Sonic Industrial Line](#) ↻

Case study: Reduction of Taste and Odor Problems in a Water Treatment Plant

The challenge

The water in the treatment plant had a bad odor and an earthy taste. Besides that, chlorination was being used to control bacteria and algae. However, this was not powerful enough, as a significant amount of algae was still present.

Applied product



LG Sonic Industrial Wet

Key results

- ✔ Reduction of taste and odor problems
- ✔ Reduction in biofouling formation
- ✔ Improvement of the coagulation processes