

# AMTech's effect on biofilm

Amtech is a company that creates products that will alleviate the pain of limestone in your drinking water by turning it to aragonite.

Our "Amtech 700" is a model for the industry. The cost is around 20.000 DKK and is attached to the main waterline right after the "water gauge".

It uses low frequent signals to vibrate the water. (What happens on the atomic level is still being debated). What AMTech is looking for with this case, is the possible application of AMTech 700, to be used in the prevention of Legionella bacteria biofilm on the inside of the water pipes.

## Engineering challenges to be solved

AMTech is currently running tests in Germany on a sewage and wastewater facility, to see if the device can improve the water flow. However, small discoveries have been made that might limit the development of bacteria or biofilm. If this is the case it opens the model for a wider range of use cases. The goal is to find out whether the effect is significant or not, and how the device effects biofilm overall.

## Engineering backgrounds needed

Bioengineers, biochemical engineers, and other possibly biological or mechanical profiles.

## Goal of the project

To obtain a clear understanding of how the AMTech 700 effects the development of biofilm in waterpipes.