

# Improvement of AMTech 100

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

Their “AMTech 100” is a model for private use. The cost is around 4.500 DKK, and it 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 are looking for with this case, is the possible improvement of the frequency of AMTech 100. They have seen indications that it performs better at stronger signals. The question is how the strength of the device can be increased, without removing the waterpipe and placing the model inside the pipe (the main benefit is the fact that the model is attached on top of the waterpipe).

## Engineering challenges to be solved

The consulting team will be required to be innovative and come up and implement ideas for how the AMTech 100 device can be improved, without significantly altering the product or the price.

## Engineering backgrounds needed

Engineering students with a mechanical, innovative or design profile are required, and possibly engineers studying chemistry of physics.

## Goal of the project

To obtain a new design for the product that can be put into production. And a split test that compares a running bath/water heater with a limited number of variables in 3 different tests

1. Without an AMTech
2. With an AMTech
3. With the new and improved AMTech