

ultrasonic
group

SUSTAINABLE WATER PROTECTION

WHAT DO WE DO?

Ultrasonic Group offers Sonic ultrasonic devices, a chemical-free, non-toxic solution manufactured in Belgium with high-frequency ultrasound that protects water from algae, bacteria, scale and mold growth.

*“We protect water
against organic fouling”*



HOW DO WE DO IT?

Our Sonic devices emit ultrasonic sound vibrations (40-42kHz). These specific frequencies can **break a membrane/vacuole of individual cells.**

The cell walls resonate with the frequencies causing the cells to come under high stress and gradually die. The dead material dissolves by itself and does not change the quality of the water.

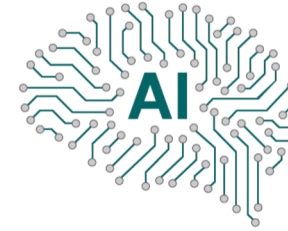


UNIQUE ULTRASONIC SYSTEM



ADJUSTABLE

All devices are **tailor-made** for each customer, in any form.



UNIQUE ULTRASONIC SYSTEM

Sensor-based algorithm with a self-managing system



PLUG & PLAY

Easy to install

RECOGNISED SOLUTION

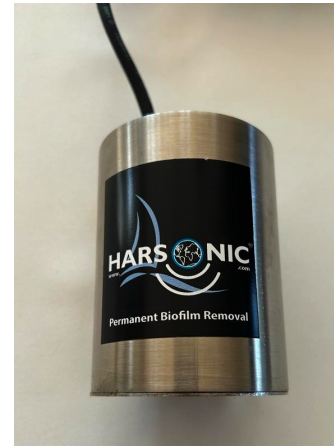
With more than 25 years of experience in ultrasonic, our Sonic devices have also been tested multiple times by various renowned institutions for approval of the technology.



EASY INSTALLATION

Different devices for easy installation. Depending on the environment, we choose the most efficient and durable installation. No holes need ever be drilled, only a two-component glue, a y-shape, placement in conduit or a float system.

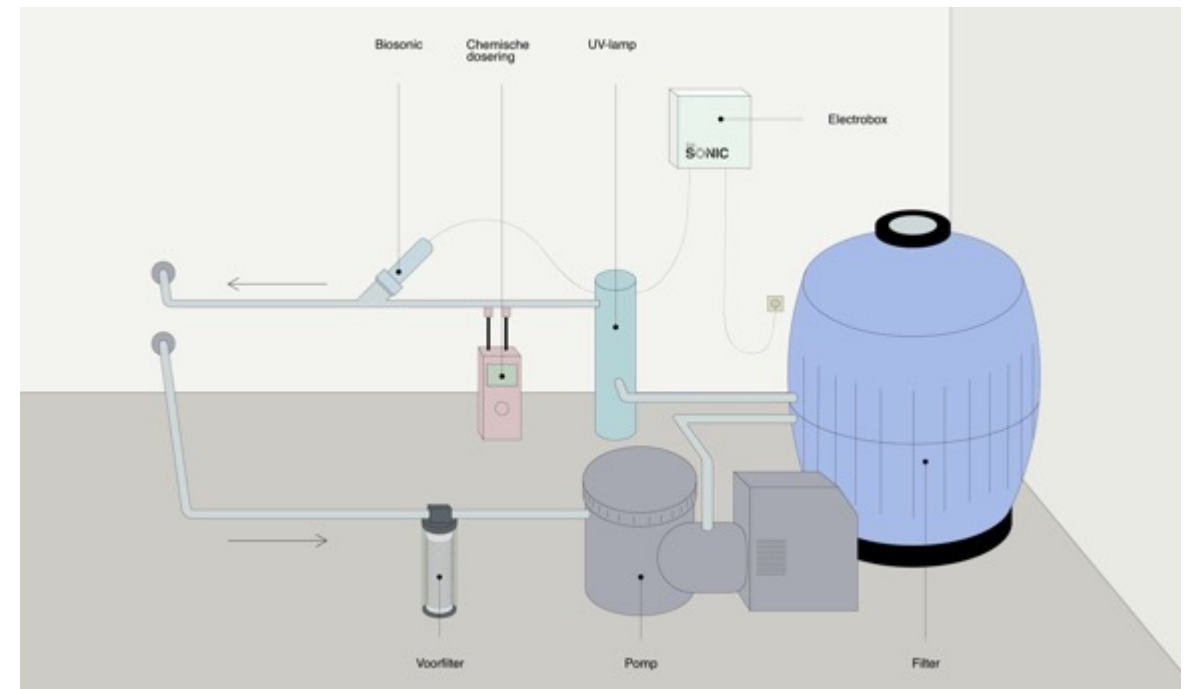
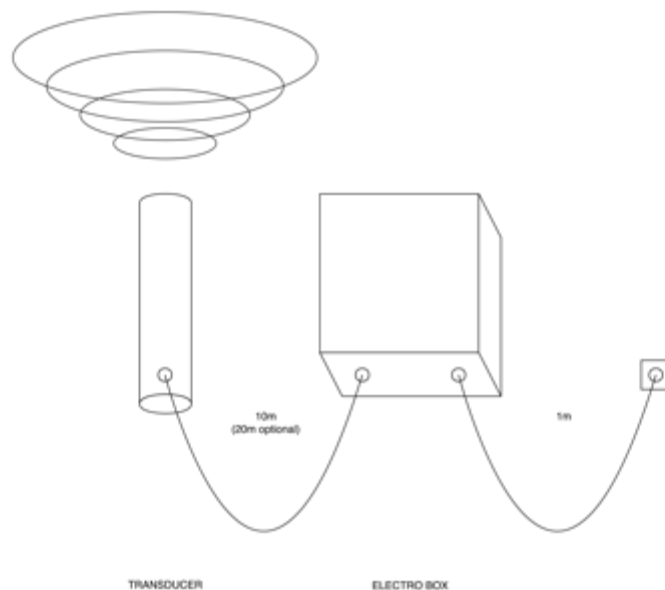
Tanks



Doorvoer



Y-vorm op leiding



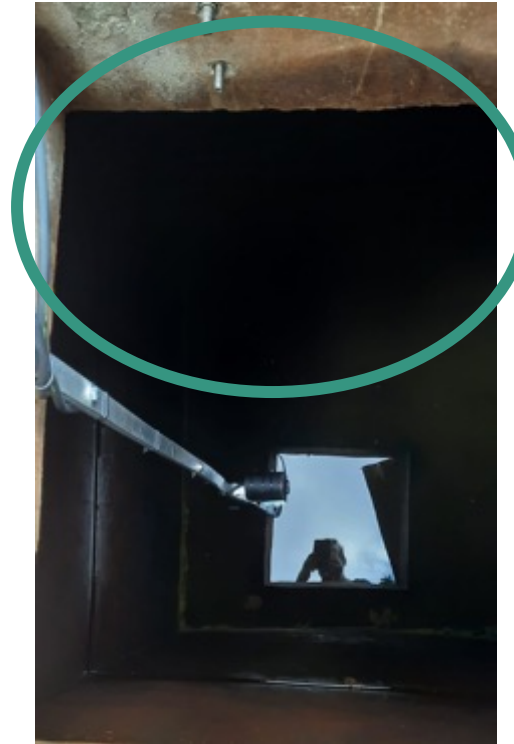
Club Med Resort Phuket (Karon)

Disinfection of water with ultrasonic sounds in underground water reservoir and water boilers.

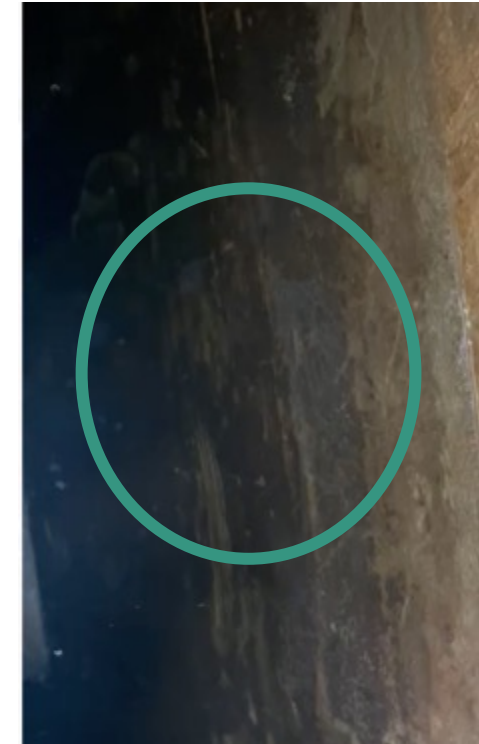
Before installation



With installation



After 6 months with installation



"After 6 months, there was a marked difference in reduction of organic fouling and iron deposits on the concrete walls of our water reservoir. We note that this also kept our germ counts (CFU) and pH value more stable with the result that we no longer need to perform our monthly cleanings."

Hotel Horizontes San Juan

PoolSonic in the pool, focusing on the elimination of algae, their formation, proliferation and growth.

The investigation regarding the device in question began on the morning of Aug. 3 with installation in the children's pool and the large pool. The ultrasonic device, Poolsonic, was installed in accordance with the installation instructions in the technical manual. The device was installed at medium depth of the pool and at a corner or point where maximum operating range could be obtained.

August 3, 2000

a biological contamination (colibacilli - x 100 ml) of 2.2 (CT) and 2.2 (CF) in the children's pool, above the acceptable level of Cuban standards.

Phytoplankton concentration: 1.5×10^4 cell/mL & 0.9×10^4 cell/mL

August 23, 2000

The situation in the children's pool repeated itself, but with an even higher contamination level (now 9.2 (CT) and 9.2 (CF)). According to the research team, this can be explained by the fact that a high concentration of microalgae was destroyed thanks to the ultrasonic. There is no biological contamination in the section reserved for adults.

Phytoplankton concentration: 0.3×10^4 cell/mL & 0.2×10^4 cell/mL

Before installation Poolsonic

*Average cost per month in the first six months of the year 2000:
\$493.65.*

After installation Poolsonic

*Average cost per month in the last six months of the year 2000:
\$75.80*

*a positive economic impact
of 651%*



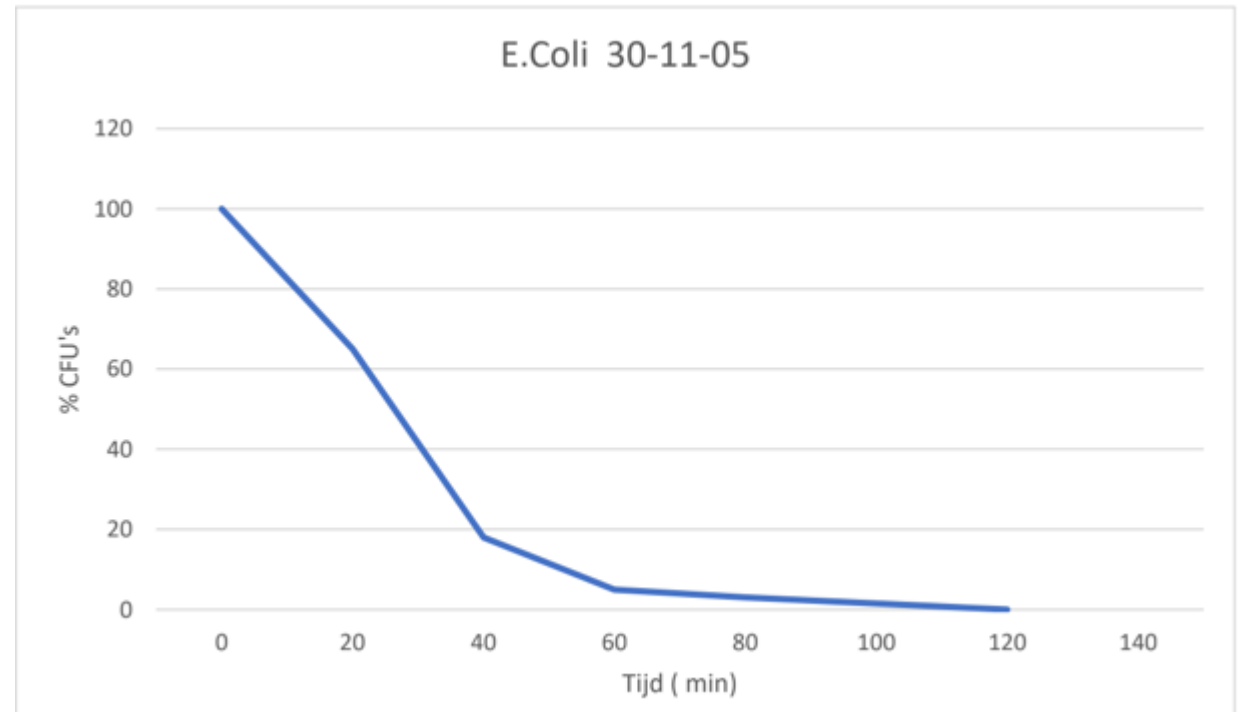
*"Within 2 weeks **5x less microalgae** and the use of chemicals such as **flocculants and algicides is reduced by 2/3**. The water also becomes significantly more **transparent**, making swimming in a pool a pleasant experience for pool users."*

Laboratory of aquatic ecology KU Leuven

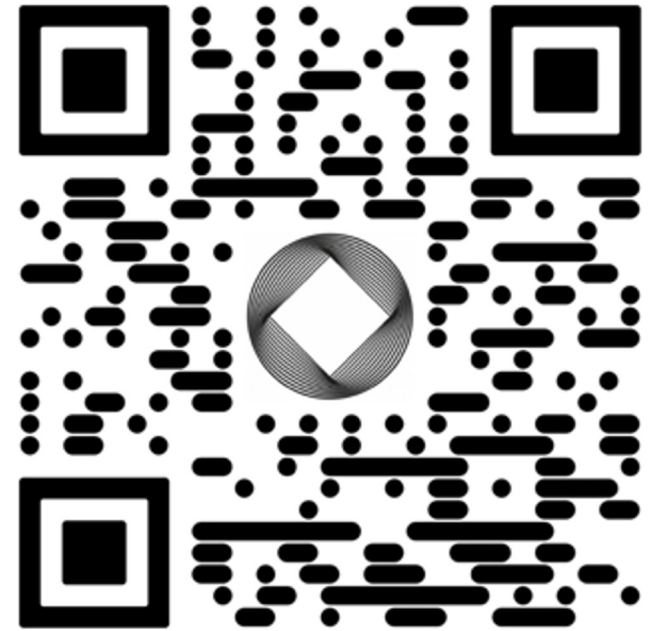
Disinfection of water with ultrasonic sounds in a 50L vessel.

"A total of four tests were conducted: three short periods (up to a maximum of 120 minutes), and one long period (up to 6 hours). For the short-period experiments, the attached graphs show the number of colonies according to dilution and time.

The 3 tests show that ultrasound is capable of decreasing E. coli."



INTERESTED? CONTACT US



PRICING &
QUOTES VIA
OUR WEBSITE

CONTACT US
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