

Chemical-free Algae Control Solutions

A combination of high temperatures, stagnant water, and nutrient overload can result in excessive algae growth. Causing a depletion of oxygen in the water, release of toxins and taste/odor problems.



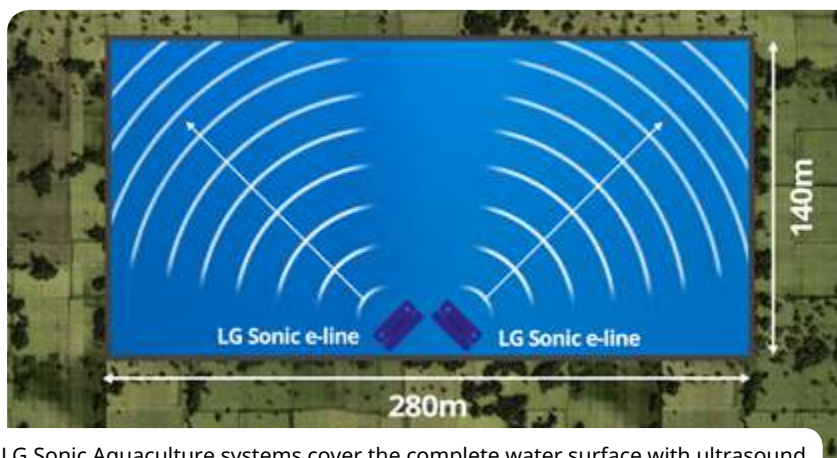
LG Sonic Aquaculture

The LG Sonic Aquaculture provides an environmentally friendly solution to control algae in open sea cages and RAS systems with the use of ultrasound technology

The Advantages of our Technology

- ✔ Eliminate algae and prevent biofouling on the nets
- ✔ Prevent the growth of new algae
- ✔ Improve the water quality
- ✔ Safe for fish, plants, and other aquatic life

The solution is to install one or multiple systems that transmit specific ultrasonic parameters depending on the type of algae.



Multiple LG Sonic Aquaculture systems cover the complete water surface with ultrasound

Each LG Sonic Aquaculture system has an ultrasonic treatment range up to 200 meter (650 feet)

Control Algae in Fish Ponds and Cages

The LG Sonic Aquaculture is an advanced system that emits specific ultrasonic parameters in order to control algae in n open sea cages and RAS systems.

Recirculating Aquaculture Systems



Prevent the blockage of filters and release of toxins without harming the fish.

Fish Cages



Eliminate algae and prevent biofouling growth on the nets.

Over 10,000 LG Sonic products have been successfully installed in a wide range of applications in 52 different countries

MPC-Buoy for Larger Water Surfaces



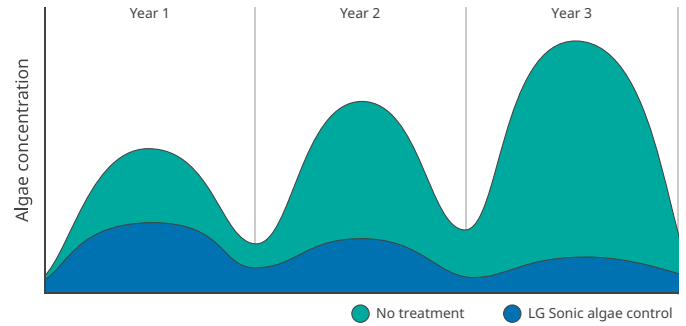
Control and Monitor Algae

The MPC-Buoy is a floating, solar-powered system that combines real-time water quality monitoring and ultrasonic sound waves to effectively control algae in lakes and reservoirs.

LG Sonic Ultrasonic Algae Control Treatment Process

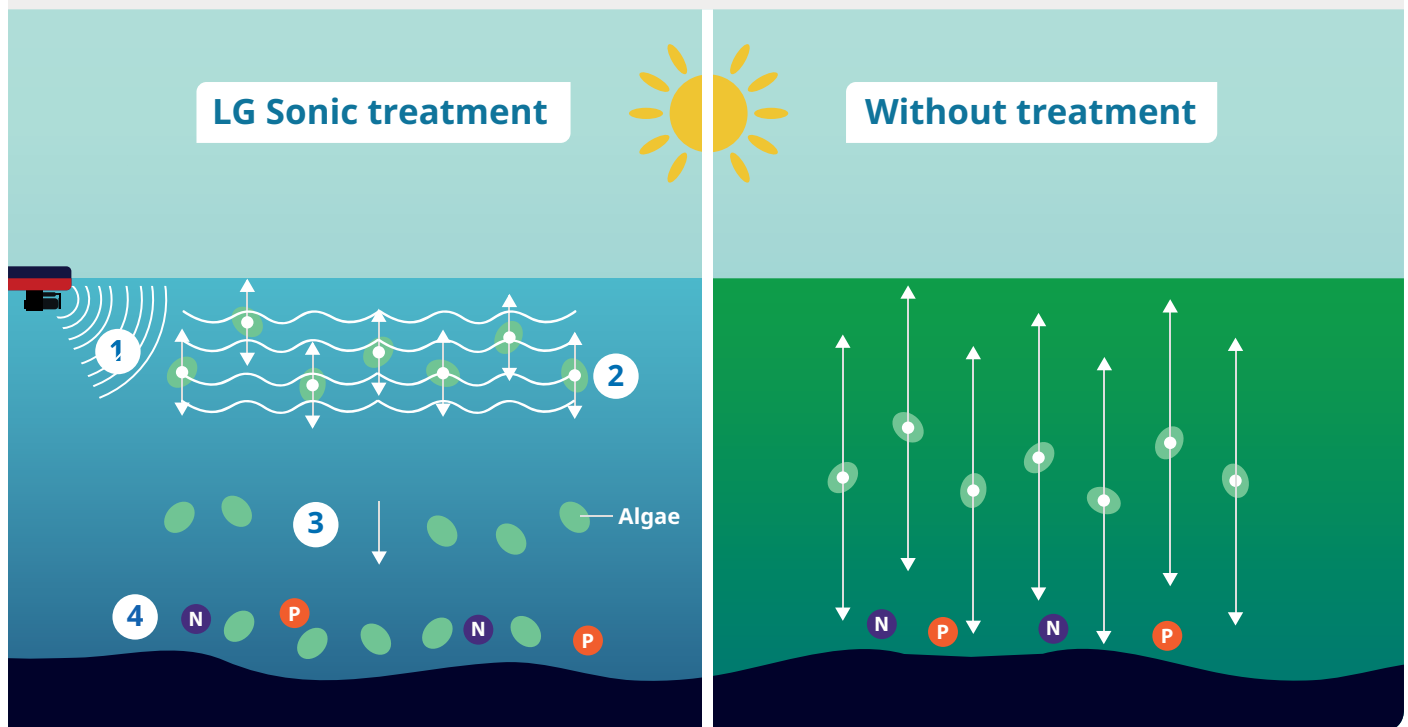
Why it is Important to Control Algae Growth

Algal blooms cause a reduced light penetration, depletion of oxygen, and release of toxins from the algae, which are unfavourable conditions for fish and plants. LG Sonic ultrasonic technology contributes to a healthy ecosystem by controlling the algae growth. After one year of treatment, the algal levels will reduce even more as the increased clarity of the water will result in plant growth and increased oxygen levels.



How Ultrasound Targets the Algae

- 1 The ultrasound creates a sound layer in the top layer of the water.
- 2 The ultrasound affects the buoyancy of the algae, **fixing** them in the water column.
- 3 Due to a lack of sunlight and nutrients, the algae will die and sink to the bottom of the reservoir.
- 4 The algae are degraded by the bacteria present.

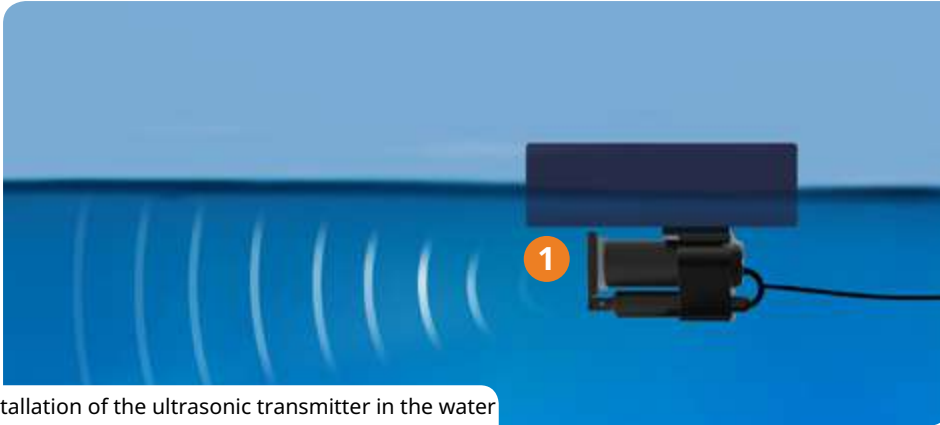


Chameleon Technology™ to Adapt the Ultrasonic Treatment to the Type of Algae

Chameleon Technology™ makes it possible to change the ultrasonic program according to the water conditions, type of algae, and type of application, thereby providing the most effective solution for each specific situation.

- ✓ More efficient algae control
- ✓ Shorter treatment time
- ✓ Prevent the occurrence of resistant algae

LG Sonic Aquaculture Features



Installation of the ultrasonic transmitter in the water



Control box to select treatment program

1 Ultrasonic transmitter for effective algae control

- ✔ Treatment range up to 200m/650ft per device
- ✔ Integrated Aquawiper™, an automatic cleansing system for the ultrasonic transmitters
- ✔ Chameleon Technology™, adjusts the ultrasonic program to the specific water conditions

2 Weatherproof control box

- ✔ Weatherproof design to protect against outdoor conditions
- ✔ LCD display with control buttons to select 12 different ultrasonic programs
- ✔ It is possible to add multiple ultrasonic transmitters to one control box for the treatment of multiple tanks or water surfaces with curves

3 Remote control monitoring to prevent frequent site visits

- ✔ GSM/GPRS control allows the user to monitor and change the ultrasound program remotely
- ✔ Receive status updates and alerts when power outages occur.