

# Dumo Algacleaner

## Algae removal with ultrasounds

Algae mitigation and growth inhibition using ultrasound, avoids the use of chemicals and does not generate waste. Therefore it is a clean technology that meet the legislative requirements of environmental policy.

### Algae growth inhibition by ultrasound

The propagation of sound in a medium such as water is carried out by a continuous transition of pressure waves. In the case of ultrasound, alternating between increasing and decreasing pressure in relation to a normal pressure is produced at a rate higher than 20,000 times per second (20kHz).

DUMO Algacleaner emits ultrasonic pulses that causes damage to the internal structure of cells. Under the effect of ultrasound, the vacuoles - that provide buoyancy to algae - breaks, in addition of further damages in the pores of the cell wall, which makes the acquisition of vital nutrients to the algae.

DUMO system emits different frequencies that generate different wave fronts effective against algae. This covers a wide range of applications over various species, by the combination of frequency, power and pulse sequence.

Depending on environmental conditions, nutrients in water, the effects of destruction and inhibition as well as the type and characteristics of existing algae populations, the effect of DUMO Algacleaner begins to be felt from fourth to eighth week from its application.

### The most effective and environmentally friendly way to eliminate algae

Now it is possible to alleviate algae blooms in your irrigation reservoir, pond, lake, fountain, etc, without the need for chemicals.

Our ultrasonic system will ensure algae control with the most sustainable method. Installation is simple and easy. All you need to do is place the device in the water and connected it to the power or energy source.



### Advantages

- ◆ Ecological
- ◆ Non-toxic: It does not cause harm to people, animals or plants.
- ◆ Clean: No need for chemical products
- ◆ Minimal maintenance
- ◆ Easy to install
- ◆ 24/7
- ◆ Low power consumption

### Specifications

- ◆ Ultrasonic waves generator: multifrequency digital generator with automatic sequence programs.
- ◆ Alarm output for emission fault: relay output (3A, 250V).
- ◆ Protections: overload, overheating and breakage of the transmitter cable.
- ◆ Pilot lights: ultrasound emission, power ON.