

SonicPure

Sustainable Algae & Biofilm Control

Agriculture

Drinking Water

Waste Water

HOA

Golf

Aquaculture

Industrial

Pulsar 4400

Precision Algae and Biofilm Targeting



Before



After

Our 4,400 ultrasonic frequencies precisely target harmful microorganisms including green algae, golden algae (*Prymnesium parvum*), cyanobacteria (commonly known as blue-green algae), dinoflagellates, and biofilm.

SonicPure is the leading supplier of solutions that prevent and combat algae using advanced ultrasonic technology, restoring water to its natural state quickly and sustainably without the use of harmful chemicals.

The Pulsar represents the next-generation in ultrasonic defense systems designed for prevention, performance, and reliability. Our systems operate 24/7, provide telemetry and cloud connectivity to enable real-time monitoring of operational performance and water quality.

[SonicPure.com](https://sonicpure.com)



SONICPURE

Why Pulsar 4400 Frequencies – The “Algal Succession Trap”

Competitors Solution

Most competitors use a reactive, narrowly tuned approach. They identify the current dominant algae species and tune their hardware to a specific frequency. This creates a biological "Succession Trap":

- **The Power Vacuum:** Algae species are in constant competition for light and nutrients. When a narrowly tuned system kills only the dominant "Species A," it clears the field for "Species B" (which was previously suppressed) to bloom aggressively.
- **The Identification Lag:** By the time a customer notices the new species and requests a "retune," the new bloom is already established. The customer is stuck in a cycle of constant identification and recalibration.
- **Aesthetic Failure:** A system tuned for Blue-Green algae (Cyanobacteria) often allows Green algae to thrive, leading to poor water clarity and customer dissatisfaction.

The SonicPure Solution: The 4400-Frequency Shield

Our technology uses a constant, broad-spectrum sweep of 4,400 discrete frequencies. This approach provides "Ecological Future-Proofing" by targeting the entire water column simultaneously.

1. The Two-Pronged Biological Attack - Instead of guessing which frequency is needed, the Pulsar 4400 hits every relevant resonance point to neutralize multiple biological structures:

- **Buoyancy Disruption:** Targets the gas vesicles in Cyanobacteria (Blue-Green Algae), causing them to sink.
- **Motility Paralysis:** Targets the flagella (the "motors") of Green Algae and toxic Dinoflagellates like *Chattonella* and *Heterosigma*. Paralyzed cells cannot move toward light or nutrients and die of **inanition (starvation)**.

2. "Set It and Forget It" Simplicity We eliminate the complexity and human error associated with manual or AI tuning.

- **No Technical Lag:** There is no "tuning window." The system is as effective on Day 60 as it was on Day 1, regardless of how species composition shifts.
- **Proactive Suppression:** Because the 4,400 sweep hits both buoyancy and motility, we aren't just killing the current resident; we are suppressing the "bench players" waiting to take its place.
- **Zero Hidden Costs:** Competitors often charge for ongoing "tuning services" or lab testing. Our broad-spectrum shield is inclusive and constant.

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