



## THE PROBLEM

For hundreds of years mariners have been plagued with the same old problem of marine growth on the hull, power train and steering gear for their yachts. With this comes:

- Reduced speed due to extra drag.
- Increased fuel consumption, estimated at as much as 20%.
- Propeller cavitation (which in turn causes extensive damage to propellers).
- Expensive annual haul outs and repainting costs.

## THE SOLUTION

Sonihull is a cost effective antifouling product that works alongside conventional antifouling paint with additional benefits.

In addition to reducing annual haul out costs, Sonihull reduces growth on hull, stern gear, and bow thrusters. A clean hull will substantially reduce fuel costs while keeping the boat performing as it should.

## WHY SONIHULL IS FOR YOU

- ✓ No through hulls!
- ✓ Keeps your hull and running gear free of fouling.
- ✓ Saves you money by reducing maintenance and haul outs, and improves fuel economy.
- ✓ Environmentally friendly.

# SONI8

Ultrasonic Anti-foul Protection

Soni8 is born from the commercial marine market's demand for a cleaner, more cost-effective way to protect multiple areas and devices against marine bio-fouling. With eight independent and programmable outputs, Soni8 can protect every part of a vessel or structure and, unlike biocidal coatings and impressed-current systems, Soni8 is low cost and low maintenance with zero poisonous environmental legacy. With one panel and eight transducers, Soni8 can protect all critical equipment inside and outside the hull.

**Eight Independent Transducers** – Soni8 effectively opens the market for large installations, where multiple surfaces and critical equipment can now be protected by one unit.



# SONIHULL

Ultrasonic Anti-fouling Protection



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## HOW DOES SONIHULL WORK?

Sonihull systems produce multiple bursts of ultrasonic signals in a range of targeted pulse frequencies. These pulses are transmitted through the hulls surface.

The ultrasonic signal produces a pattern of alternating positive and negative pressure on the surface of the material. Microscopic bubbles are created during the negative cycle and are imploded during the positive cycle. This microscopic agitation has a cleansing effect which destroys surface algae.

Disrupting this first link in the food chain keeps the surface clean and creates a hostile environment for larger organisms that feed on the algae. The microscopic movement of water also prevents barnacle and mussel larvae from embedding on the surface.



## THE BENEFITS

- ✓ A clean hull and drivetrain can reduce fuel bills by 20% to 30%!
- ✓ Reduced vibration and improved performance.
- ✓ Reduces maintenance costs and expensive haul outs.
- ✓ Suppress diesel bug and keep stored water fresher.

## ENVIRONMENTALLY FRIENDLY

With new environmental regulations set to substantially reduce the effectiveness of traditional antifouling paints, PYI Inc. offers the Sonihull Ultrasonic Antifouling Systems as an addition to traditional antifouling methods. Using the latest in digital electronics and transducer technology, Sonihull has made a quantum leap forward over the competitors to fill the needs of the marine industry.

Tests have demonstrated that electronic antifouling products have no adverse effect to fish and marine mammals, as the ultrasonic frequencies stay very close to the hull structure.

## SONIHULL SYSTEMS

Sonihull is available in three models, the Mono, Duo and Soni8\*. The Sonihull Mono is a single transducer system, and the Duo is a dual transducer system. Refer to the chart on the right to determine which system is for you.

\* Soni8 on back panel of this brochure.

### SONIHULL MONO



### SONIHULL DUO



<b>Power Supply Approvals</b>	UL and CE
<b>Voltage</b>	100-240v AC 50/60Hz (12-24v DC)
<b>Power</b>	<b>Mono:</b> 3.6w <b>Duo:</b> 7.2w
<b>Pulse Frequency</b>	19.5 - 55 kHz
<b>Control Box Rating</b>	IP65
<b>Transducer Rating</b>	IP68
<b>Transducer Cable Length</b>	21 feet
<b>Weight</b>	9 lbs
<b>Dimensions</b>	7" x 5" x 3"
<b>Warranty</b>	2 years



## WHICH SONIHULL SYSTEM?

Sonihull System	Boat Length			
	≤ 32'	32 - 55'	49 - 65'	59 - 72'
Mono	●			
Duo		●		
Mono + Duo			●	
Duo + Duo				●

### Note:

1. Double the requirements for twin hull vessels.
2. Transducers must contact the outer skin of the hull, for cored hulls.

## BEFORE AND AFTER



**BEFORE** - Fouling on hull prior to being cleaned, and then having Sonihull installed.



**AFTER** - Boat hull after being in the water for 2 years with the Sonihull system.