

SONIHULL

Ultrasonic Antifouling System



SONIHULL MONO

Ultrasonic Antifoul system for small yachts, Stern Drives and Raw water inlets

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DATA SHEET

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Ultrasonic generator system single transducer suitable for both sailing and motor.

The antifouling paint alternative

The NRG Marine Hull protection system utilizes the latest digital electronics and Ultrasonic transducer technology, by producing multiple bursts of ultra sonic energy simultaneously in a multiple range of frequencies. This energy produces a pattern of alternating positive and negative pressure.

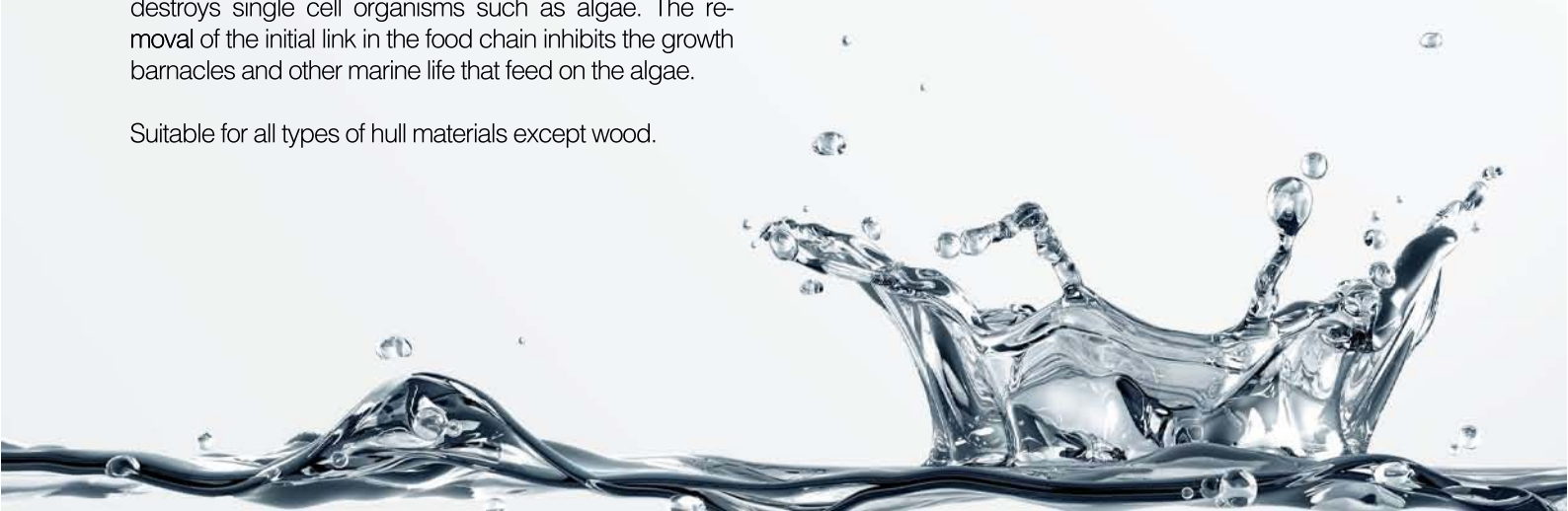
The alternating pattern creates microscopic bubbles during periods of negative pressure and implodes them during periods of positive pressure in a phenomenon known as "cavitation." The implosion creates a micro-jet action that not only provides the cleaning effect on the hulls surface below the water line, it also resonates and destroys single cell organisms such as algae. The removal of the initial link in the food chain inhibits the growth barnacles and other marine life that feed on the algae.

Suitable for all types of hull materials except wood.

The Benefits

SONIHULL REDUCE YOUR FUEL BILLS. A clean hull can save you about 30% of fuel Bills, It is common knowlegde that fouling on the boat's hull will lead to increased resistance, which basically means you are going to burn more fuel for every knot you make. The outcome is compromised efficiency and a poorer mpg figure than with a clean hull.

ENVIRONMENTALLY FRIENDLY. Tests show that there is no danger to fish, (but if they can hear the ultra high frequencies and don't like it, they only have to swim a few more inches away from the hull to avoid the problem!)



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Simple Installation

No hull penetration required

Transducers are simply bonded to the inside of the hull.

For protecting stern drives, utilise the
STERN DRIVE ADAPTOR (not included- optional).

The adaptor mounts via the fixed end of the steering ram.

By injecting sonihull signals directly into the body of the
stern drive you will see a marked improvement in the region
of around 80%

Installation Guide

Mounting of Control Box

Find suitable dry location above water line with suitable
access to either Mains or Battery Power.

Remove lid to expose mounting screw hole Mounting
Transducers

Mounting of Transducer

Use Sand Paper to prepare the surface of the Sonihull.
The surface needs to be flat and smooth to ensure best
transmission quality

Use a hard Epoxy to bond the mounting ring to the hull.
(ensure that there is no residue glue on the inside
of the ring).

Ensure surface to surface contact with no air trapped be-
tween transducer and hull

Allow Epoxy to dry before screwing in Transducer, Add a
smear of Vaseline to the surface of the transducer (1mm)
before screwing into the mounting ring.

Run cables back to the control box and attach.

Power on- simple as that.

Technical Specification

PSU Approval:	CE and UL
Voltage:	100-240v AC (50-60Hz) and 12-24v DC
Power:	3.6 watts
Ultrasonic Generator:	1
Transducer:	1
Pulse Frequency:	19.5KHz to 55KHz
Control Box Rating:	IP65
Transducer Rating:	IP68
Transducer Cable:	5.5m. in Length
Weight:	3Kg
Dimensions:	175mm x 130mm x 75mm
Warranty:	2 Year



Environmental
Friendly



Banish the
Barnacle



Cost
Effective



No hull
Penetration
required



Increase
Efficiency



Auto low voltage
cut off at 11V



Easy
to install



Effective removal
of a wide range
of algae



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Positioning for Installation

Ideal for Solid GRP, Aluminium and steel hulls.



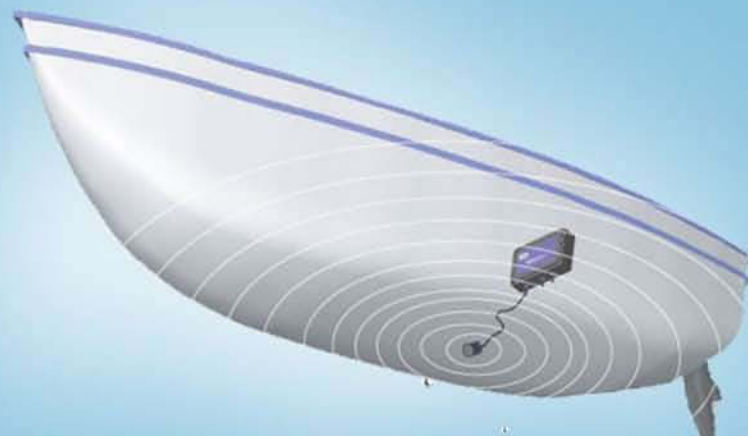
Sailing Yach

Sonihull Mono Positioning



Motor Boat

Sonihull Mono Positioning



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Please note: for sandwich construction hulls, the transducer will require to be mounted on the inside of the outer skin of the hull.

