



SONIHULL MONO

Ultrasonic Antifouling Protection

Ordering Information

| | | |
|----------------------|--------------|---------------|
| NRG-SH01 | 3.6 Watts | 3.5kg |
| DATASHEET NO. | POWER | WEIGHT |

| Item | Code | Description | Weight (kg.) |
|------|------|--|--------------|
| 1 | SH01 | Sonihull Mono Ultrasonic Antifouling Protection | 3.5kg |

How does it work?

Sonihull systems produce multiple bursts of ultrasonic energy in a range of targeted pulse frequencies. These pulses are transmitted through the material that the transducer is attached to.

The ultrasound 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 makes it a much less inviting habitat for larger organisms that feed on the algae. The microscopic movement of water also prevents barnacle and mussel larvae from embedding on the surface.

Key Features

- Effective bio-fouling without the poisonous environmental legacy of biocides or metal compounds
- Inaudible to humans and marine life with no interference to sonar and electronic equipment
- Low power consumption - at about 3.6 Watts per transducer Sonihull is ideal for shore or battery power
- Easy Installation - no boat lifting, no through-hull fittings, no expensive anodes to replace
- Reduced fuel consumption - clean hull, propellers and rudders can reduce fuel bills by up to 30%
- Reduced maintenance - clean propellers and shafts will reduce vibration and drivetrain wear
- Extended maintenance intervals mean more boating, less downtime and reduced running costs
- Microbial Control - Sonihull suppresses Diesel bug and keeps potable water fresher for longer
- Fully Programmable & Integratable with RS232 / RS422 and Modbus communication interface for wired/ wireless remote control with critical path fault monitoring

Technical specification

| | |
|----------------------|---|
| Brand | NRG Marine Ltd. |
| Product name | Sonihull Mono |
| Product code | SH01 |
| PSU approval | CE and UL |
| Voltage | 100-240V 50/60Hz (12-24V DC) |
| Ultrasonic generator | 3.6 Watts |
| Transducer | 1 pc. |
| Control box rating | IP65 |
| Transducer rating | IP68 |
| Transducer Cable | 6.5m. in length |
| Weight | 2kg. (Control box) 1.5kg. (1x Transducer) 3.5kg. (Total boxed weight) |
| Dimensions | 175mm. x 130mm. x 75mm. |
| Warranty | 2 years |

| LED | Colour | Normal status | Fault status | Comments |
|-----------|--------|---------------|--------------|--|
| Power on | Red | ON | Flashing | Flashing is normally due to incorrectly seated transducers |
| Output 1 | Green | ON | OFF | OFF when not connected or in fault |
| Status OK | Green | ON | OFF | Fault indication, check power and transducers |

Status output 1 core connector providing +5VDC output in Normal condition, and 0V in fault condition.

Component includes

- Sonihull ultrasonic pulse generator control unit with 1 transducer output
- Ultrasonic transducer complete with 5.5 metres of cable x1
- Mains cable with 3 pin UK standard fused plug
- Marine Grade epoxy glue,
- Vaseline

Items required but not supplied with the Sonihull kit.

- 4 x screws for mounting control box.
(some people prefer to use strong velcro to secure)

