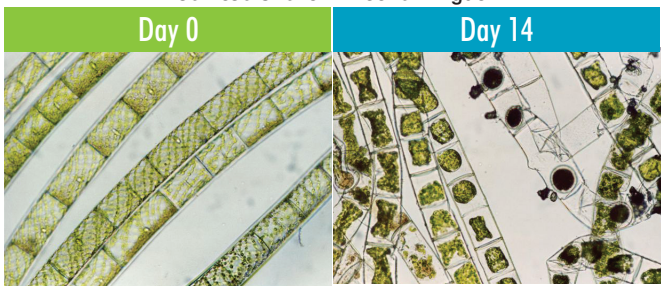
# SonicSolutions® LLC Algae Control Without Chemicals!

# FACTS & SPECIFICATIONS

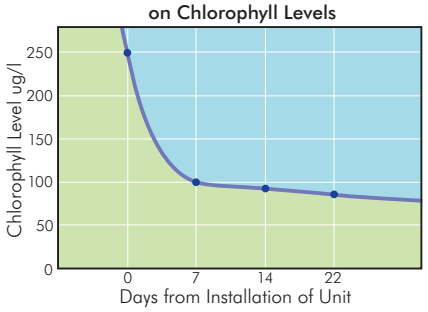
## How it Works

The **SonicSolutions®** transducer, submerged just beneath the surface, is programmed to generate ultrasonic waves that inhibit the growth and spread of algae.

SonicSolutions® Effect on Algae




Effects of SonicSolutions® on Chlorophyll Levels




## Placement Options

The SonicSolutions® Algae Control device emits directional ultrasonic waves that "fan out" at approximately 180° from the front of the transducer (See Figure 1). It is important to install your device to provide the optimal exposure of the ultrasonic waves to the body of water you are treating. You should position the unit in a minimum of 2' of water, close to the edge of the water to minimize the area behind the unit that will not receive the ultrasonic waves.

Large installations and certain shapes of ponds or lakes may require installation of more than one device. Multiple devices can be installed at opposite sides of a lake or pond or attached together pointing in different directions, depending on your site requirements (See Figure 2).

The SonicSolutions® device, like all ultrasonic devices, is a "line of sight" technology. Ultrasonic sound waves will not go around corners or navigate around islands that may be in your body of water. Ultrasonic sound waves reflect or bounce off of hard surroundings, such as concrete, rip-rap, and large rocks, islands, as well as submerged obstructions such as sandbars and weirs. Even thick weeds can block or degrade the signal strength. (See Figures 3 and 4).

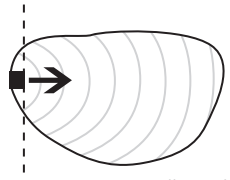
**SEE INSTRUCTIONAL VIDEO: sonicsolutionsllc.com**

Make sure that the placement of the device takes into account any potential reductions in the water level. You must have a minimum of 2' of water at all times. (See Figure 5)

### Need help?

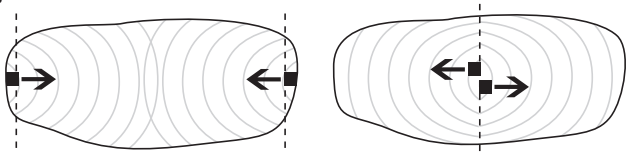
For FREE placement assistance email us at info@sonicsolutionsllc.com. Make sure that your site-plan includes accurate dimensions and shape configurations of your water site. Also make sure that you identify and locate any submerged obstructions on your plans.

**Figure 1**



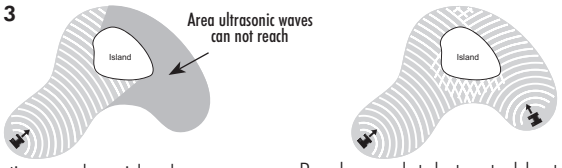
1 unit in small pond

**Figure 2**



2 units in large pond

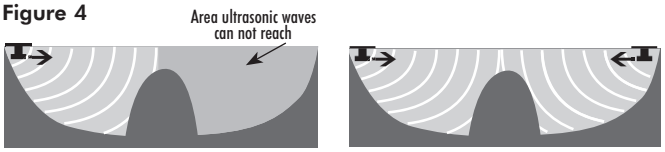
**Figure 3**




Obstructions such as islands can block the ultrasonic signal.

Pond completely treated by two SonicSolutions® ultrasonic units

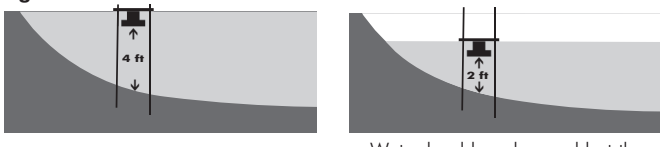
**Figure 4**




Submerged obstructions: sandbar or weirs can block the ultrasonic signal.

Pond completely treated by two SonicSolutions® ultrasonic units

**Figure 5**




Water level has dropped but there is still 2' of water under unit.



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# TECHNICAL SPECIFICATIONS EPA Est. 74929-MA-001

| | Models | Power Input | | UL Approved Power Supply | NSF Certification | Range* | Coverage* | |
|---|---|---|---|---|---|---|---|---|
| Residential | SS 100 | US 120V AC 50/60Hz 0.5 Amps Max | EU/UK 240V AC 50/60Hz 0.5 Amps Max | E322023 | NSF/ANSI 61 & 372 | Small Tanks & Ornamental Ponds | | Residential |
| | SS 100-24 | US 24V AC, 1 Amps Max** | EU/UK 24V AC 1 Amps Max | — | NSF/ANSI 61 & 372 | | | |
| | | US 24V DC, 1 Amps Max*** | EU/UK 24V DC 1 Amps Max | — | NSF/ANSI 61 & 372 | | | |
| | SS 200 | US 120V AC, 50/60 Hz, 0.5 Amps Max | EU/UK 240V AC 50/60Hz 0.5 Amps Max | E322023 | NSF/ANSI 61 & 372 | Medium Tanks & Ornamental Ponds | | |
| | SS 200-24 | US 24V AC, 1 Amps Max** | EU/UK 24V AC 1 Amps Max | — | NSF/ANSI 61 & 372 | | | |
| | | US 24V DC, 1 Amps Max*** | EU/UK 24V DC 1 Amps Max | — | NSF/ANSI 61 & 372 | | | |
| Residential or Commercial | SS 400 | US 120V AC, 50/60 Hz, 0.5 Amps Max | EU/UK 240V AC, 50/60 Hz, 0.5 Amps Max | E322023 | NSF/ANSI 61 & 372 | 400 ft/121.92 m | | Residential or Commercial |
| | SS 400-24 | US 24V AC, 1 Amps Max** | EU/UK 24V AC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 400 ft/121.92 m | up to 2 acres | |
| | | US 24V DC, 1 Amps Max*** | EU/UK 24V DC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 400 ft/121.92 m | | |
| | SS 500 | US 120V AC, 50/60 Hz, 0.5 Amps Max | EU/UK 240V AC, 50/60 Hz, 0.5 Amps Max | E322023 | NSF/ANSI 61 & 372 | 500 ft/154 m | | |
| | SS 500-24 | US 24V AC, 1 Amps Max** | EU/UK 24V AC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 500 ft/154 m | up to 6 acres | |
| | | US 24V DC, 1 Amps Max*** | EU/UK 24V DC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 500 ft/154 m | | |
| | SS 600 | US 120V AC, 50/60 Hz, 0.5 Amps Max | EU/UK 240V AC, 50/60 Hz, 0.5 Amps Max | E322023 | NSF/ANSI 61 & 372 | 600 ft/182 m | | |
| | SS 600-24 | US 24V AC, 1 Amps Max** | EU/UK 24V AC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 600 ft/182 m | up to 8 acres | |
| | | US 24V DC, 1 Amps Max*** | EU/UK 24V DC, 1 Amps Max | — | NSF/ANSI 61 & 372 | 600 ft/182 m | | |

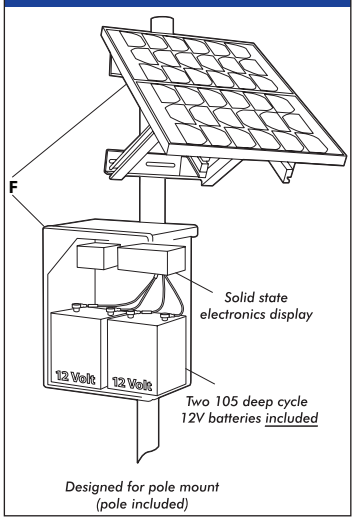
* Range and coverage depends on location and conditions.
** 24 volt AC units are compatible with any 24 volt AC low voltage lighting or irrigation power source.
*** 24 Volt DC units are compatible with any 24 volt DC power source.
Solar Power System, which includes two batteries, may be purchased separately from SonicSolutions®

## SonicSolutions® Parts and Dimensions

| | |
|---|---|
| **A.** Transducer | length: 8", diameter: 3", height: 9", cord length: 25' (SS 100, SS 200); 50' (SS 400, SS 500, SS 600) |
| **B.** Power Supply Box | depth: 2.5", length: 7.75", width: 4.5", cord length: 6' (US & EU); 5' (UK) |
| **C.** Float* (optional with SS 100 and SS 200) | 15"x 15" x 1.5" with four .75" tie down holes and two 2" x 3.5" slots for stakes |
| **D.** Float Shackle* | length: 1.5", stainless steel |
| **E.** 50' or 100' cord (purchase separately) | 50' or 100' transducer extension cord (SJTOW) with waterproof connectors |
| **F.** Solar Power System (purchase separately) | includes solar panel, control box, wiring, pole, mounting brackets and two batteries. Note: systems are sized for specific site |
| **G.** SM6000 dB Meter (purchase separately) | for measuring strength of ultrasonic signal: length: 8.5", width: 5.5", height: 3.5", runs on two 9 volt batteries |
| **H.** Sled Mount Kit (purchase separately) | for use in lined water sites (includes one sled base; two mounting poles; and two brass sliding-bolts) |

## TRANSDUCER EXTENSION CORD

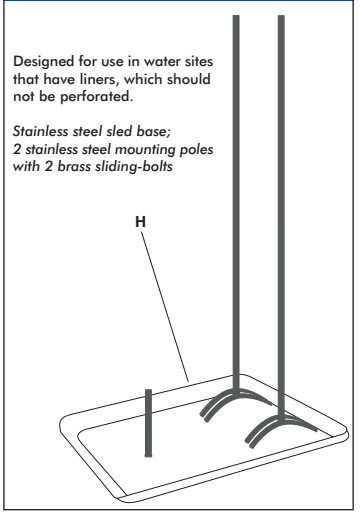

## SOLAR UNIT



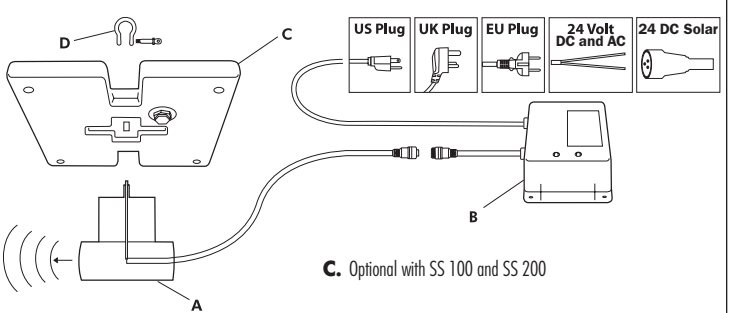

## SLED MOUNT KIT

Designed for use in water sites that have liners, which should not be perforated.

*Stainless steel sled base; 2 stainless steel mounting poles with 2 brass sliding-bolts*



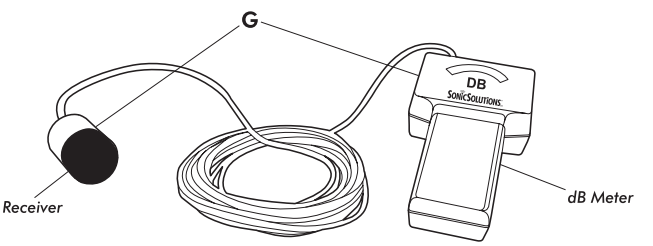

## SS 100 • SS 200 • SS 400 • SS 500 • SS 600




**C.** Optional with SS 100 and SS 200

21 lbs. (shipped in single carton)

## SM-6000 dB METER




Illustrations not drawn to scale