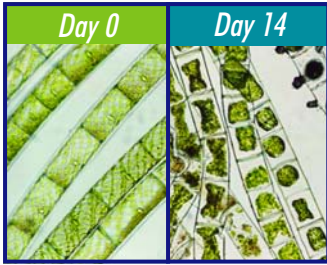


## FACTS & SPECIFICATIONS

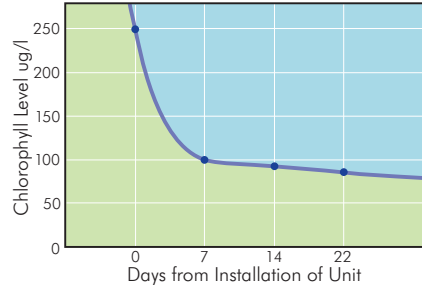
### How it Works

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

Electron Microscopy of SonicSolutions<sup>™</sup> Effect on Algae



Effects of SonicSolutions<sup>®</sup> on Chlorophyll Levels



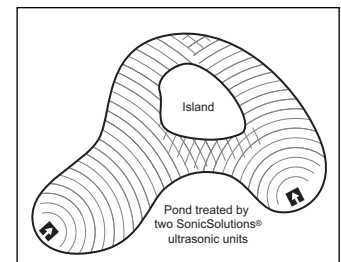
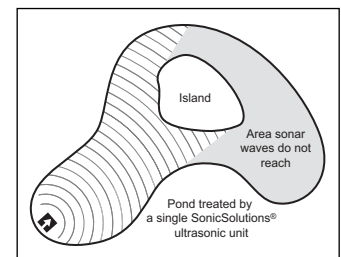
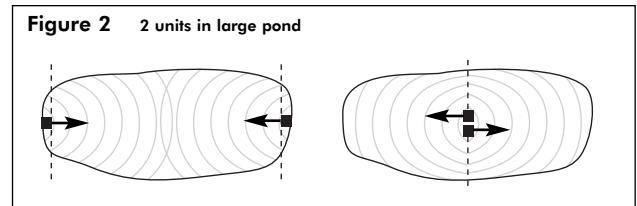
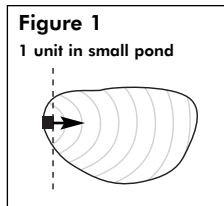
### It's Easy to Install and Maintain

#### PLACEMENT

The **SonicSolutions<sup>®</sup>** Algae Control device emits ultrasonic waves that “fan out” at approximately 180° from the front of the transducer (see Figure 1). The nutrient level, turbidity, shape of the body of water and the closeness to the equator may affect the coverage area. The potential coverage for the SS 400 model can be as much as 1.5 acres and for the SS 500 model up to 3 acres.

Set up your device to provide the optimal exposure of the ultrasonic waves to the body of water you are treating. Place close to the edge as sonic waves extend only in front of the transducer unit. 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<sup>®</sup> 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.



# TECHNICAL SPECIFICATIONS EPA Registration #074929-MA-001

Models	Power Input		UL Approved Power Supply	NSF Certification	Range
SS 100	US 105-125V AC, 50/60 Hz, 0.4 Amps	—	E249834	—	Small Tanks & Ornamental Ponds
SS 100-24*	US 24V DC, 0.2 Amps	—	—	—	
SS 200	US 105-125V AC, 50/60 Hz, 0.4 Amps	—	E249834	—	
SS 200-24*	US 24V DC, 0.25 Amps	—	—	—	
SS 400 -US, -EU, -UK	US 105-125V AC, 50/60 Hz, 0.4 Amps	EU/UK 210-250V AC, 50/60 Hz, 0.2 Amps	E249834	NSF/ANSI 61	350 ft/108 m
SS 400-24*	US 24V DC, 0.3 Amps	—	—	NSF/ANSI 61	350 ft/108 m
SS 500 -US, -EU, -UK	US 105-125V AC, 50/60 Hz, 0.5 Amps	EU/UK 210-250V AC, 50/60 Hz, 0.25 Amps	E249834	NSF/ANSI 61	500 ft/154 m
SS 500-24*	US 24V DC, 0.3 Amps	—	—	NSF/ANSI 61	500 ft/154 m
SS 600 -US, -EU, -UK	US 105-125V AC, 50/60 Hz, 0.6 Amps	EU/UK 210-250V AC, 50/60 Hz, 0.3 Amps	E249834	NSF/ANSI 61	600 ft/182 m
SS 600-24*	US 24V DC, 0.7 Amps	—	—	NSF/ANSI 61	600 ft/182 m

\*24 volt units are compatible with any 24 volt DC power source: **1)** Battery (require a minimum of two 105 deep cycle 12V batteries wired in series) **2)** Irrigation system **3)** Solar Power System, which includes two batteries, may be purchased separately from SonicSolutions)

## SonicSolutions® Parts and Dimensions

<b>A.</b> Transducer	length: 8" diameter: 3" height: 9" cord length: 50'
<b>B.</b> Power Supply Box	depth: 2.5", length: 7.75", width: 4.5" cord length: 6' (US & EU); 5' (UK)
<b>C.</b> Float	15"x 15" x 1.5" with four .75" tie down holes and two 2" x 3.5" slots for stakes
<b>D.</b> Float Shackle	length: 1.5", stainless steel
Shipping Weight: items A-D	20 lbs. (shipped in single carton)
<b>E.</b> Solar Unit	solar panel and control box (includes mounting brackets and batteries—designed to mount on a pole)
<b>F.</b> 50' and 100' cord (purchase separately)	50' and 100' transducer extension cord (SJTOW) with waterproof connectors
<b>G.</b> dB Meter	(measures strength of ultrasonic signal) length: 8.5", width: 5.5", height: 3.5", runs on two 9 volt batteries

