

OWNER'S MANUAL

SONIC SOLUTIONS[®] Algae Control System

120-Volt AC Models:

SS 100

SS 200

These algae control systems employ a:



SONIC SOLUTIONS[®] power supply for outdoor use.

24-Volt DC Models:

SS 100-24

SS 200-24

EPA# 074929-MA-001

IMPORTANT SAFETY INSTRUCTIONS

READ, UNDERSTAND, FOLLOW AND SAVE THESE INSTRUCTIONS

Operation, parts listing, maintenance guidelines, troubleshooting hints and warranty information

WARNING

DO NOT operate device out of the water. This will result in the deforming of transducer head and will void your warranty.

SONIC SOLUTIONS[®]

77B West Street • West Hatfield, MA 01088, USA • tel: 001-413-247-9423 • www.sonicsolutionsllc.com

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Date Purchased: _____
Serial Number: _____
Place of Purchase: _____
Address: _____

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Introduction

Congratulations. You have purchased an environmentally safe algae control system. Your SonicSolutions® device uses state-of-the-art ultrasonic technology to kill algae without harming other aquatic life such as plants or fish. SonicSolutions® operates 24-hours-a-day killing algae as it tries to grow. Please read and follow all of the instructions in this manual. If you have any questions concerning your SonicSolutions® device, call us at 1-866-KO-ALGAE (1-866-562-5423). Thank you.

Important Safety Information

When installing this electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL INSTRUCTIONS

1. **WARNING**—To reduce the risk of injury, DO NOT allow children to play with this device or any of its parts.
2. **WARNING**—Risk of electrical shock. Install only to a Class A GFCI receptacle that has an enclosure that is weatherproof with the attachment plug cap inserted or removed.
3. **WARNING**—DO NOT bury electric cord. Locate the cord where it will not be damaged by lawn mowers, hedge clippers, propellers, and other equipment.
4. **WARNING**—To reduce the risk of electric shock, replace damaged cords immediately. Use a qualified electrician to replace the cord.
5. **WARNING**—Do not operate the SonicSolutions® device with a two bladed adapter plug or extension cord. Doing so can result in serious personal injury.
6. **WARNING**—Risk of injury. May cause tissue damage. DO NOT place the transducer against your head or chest while the device is operating.
7. **WARNING**—DO NOT plug power supply into outlet before reading the PLACEMENT and INSTALLATION part of this manual.
8. **WARNING**—DO NOT operate device out of the water. This will result in the deforming of transducer head and will void your warranty.

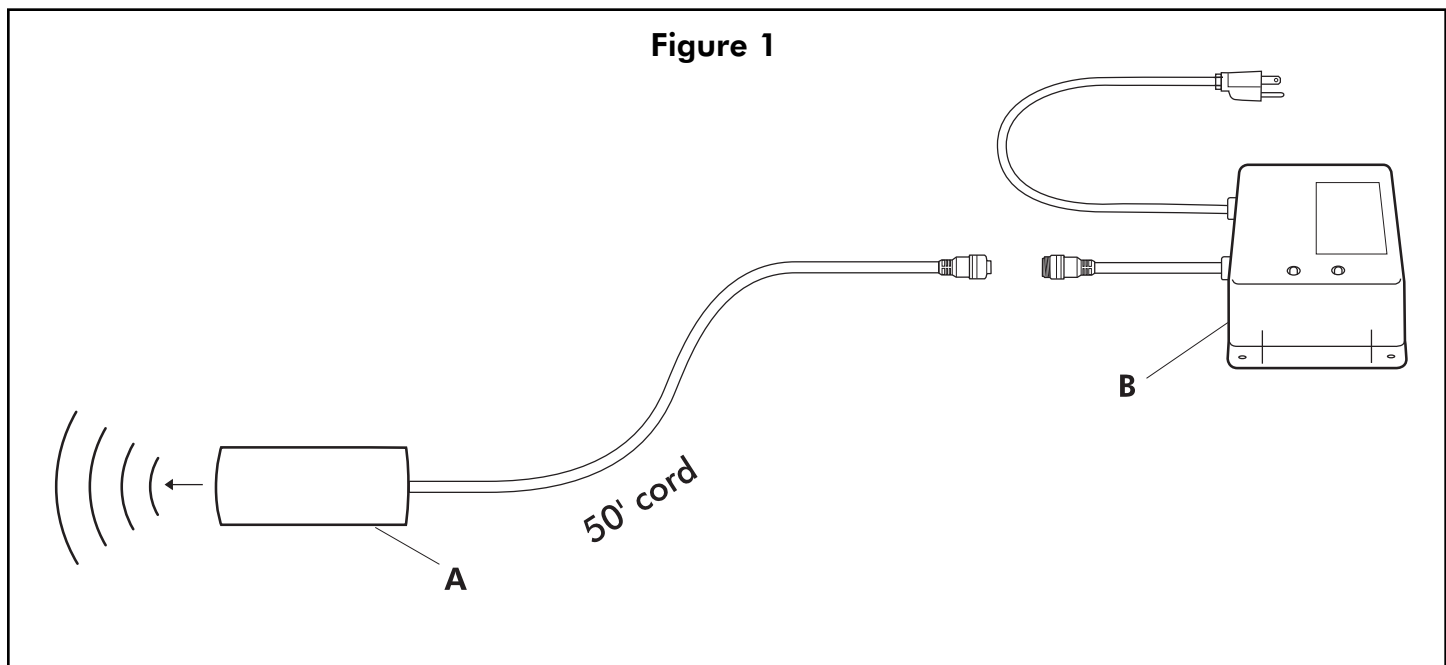
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Parts

PARTS

- A. SonicSolutions® Transducer Unit (Note direction of ultrasonic waves)
- B. SonicSolutions® Power Control Box



ASSEMBLY

1. **Preconnect Unit:** Attach the cord from the **Transducer Unit (A)** to the cord from the **Power Control Box (B)** making sure the waterproof connection is securely fastened before connecting to electrical receptical.
2. If you are using an optional **Transducer Power Supply Extension Cord (E)**, attach it to the cord from the **Power Control Box (B)** and the cord from the **Transducer Unit (A)** making sure both waterproof connections are securely fastened.

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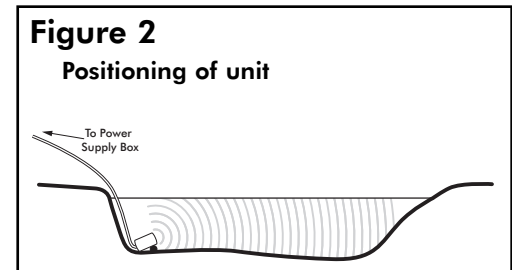
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Placement and Installation

PLACEMENT

The SonicSolutions® Algae Control device emits ultrasonic waves that “fan out” at approximately 180° from the front of the transducer. (See Figure 2).

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. Certain shapes of ponds may require installation of more than one device. Multiple devices can be installed at opposite sides of a pond.



Need help? For FREE placement assistance FAX us a site-plan of your water site to: 413-247-9401. Make sure that your site-plan includes accurate dimensions and shape configurations of your water site.

INSTALLATION

Installing your SonicSolutions® is easy. **Do not plug in your device until you have completed the following steps:**

1. **INSTALLING THE TRANSDUCER:** Install your unit by placing it on the bottom of your pond at the end where it will have the maximum line-of-sight coverage. It is important the the unit be angled slightly upward (see figure 4) to allow the ultrasonic waves to reach spread out from the transducer head. Make sure that the Transducer Unit is not blocked or obstructed by any solid objects such as pilings, boats, walls, etc. If the ultrasonic waves are blocked by solid objects, the device will not be effective.
3. **INSTALLING THE POWER CONTROL BOX:** Mount the Power Control Box to any convenient flat surface by using screws through the four mounting holes in the corners of the box. If a flat surface is not available, attach a board to a post, tree, etc. to create one.
4. **TURN ON THE SONICSOLUTIONS® DEVICE:** To turn on the SonicSolutions® device, connect it ONLY to a grounding type receptacle (see warning information page 1). The indicator lights on the Power Control Box should illuminate. If the top light is blinking and the bottom light is on, the device is on transmitting ultrasonic waves.

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Operations

To operate effectively, the SonicSolutions® algae control system must be on 24-hours-a-day continuously emitting algae killing ultrasonic waves. Depending on how much algae are established in your water site (lake, reservoir, pond, etc.,) prior to installation, you will begin to see results from within a few days to three weeks.

As certain algae dies, it may float to the surface and **should be removed**. Certain algae will sink when killed. After your water site is cleared of algae, SonicSolutions® will continue to kill algae as it tries to grow, keeping the water clear of algae.

Occasionally, after major rain events, you may experience algae blooms caused by large amounts of algae being washed into to your water site. Depending on the amount of algae in the bloom, it can take a couple of days to a week for SonicSolutions® to re-clear your water site.

The SonicSolutions® device is directional. For best results, check frequently to be sure it is pointed in the proper direction. Also, we suggest you place the device close to the edge of the body of water so that the least amount of water possible is behind the device.

Maintenance

Clean the face of the transducer regularly. Failure to keep the face clean will interfere with the ultrasonic waves and result in reduced effectiveness of the device. **Important: Always unplug the device before cleaning or handling it.**

Troubleshooting

Check the following guide for possible cause of a problem before contacting SonicSolutions®, LLC, for service assistance.

Symptom	Causes	Solution
Both Indicator lights are off	Electric power failure	Test and turn on power to receptacle
	Damaged power cord	Unplug and inspect cord for damage.
	Damaged Power Control Box	Contact SonicSolutions®, LLC.
Ultrasonic operation power indicator light is not blinking, but power light indicator is on	Damaged transducer or power unit or cord	Unplug and inspect cord. Clean transducer head and test. Contact SonicSolutions®, LLC.
Algae is not dying	Dirt or debris on the face of the transducer may be interfering with the ultrasonic waves	Clean the face of the transducer regularly (read Maintenance section above)

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Warranty

Limited Two (2) Year Warranty

SonicSolutions[®], LLC warrants this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, SonicSolutions[®], LLC will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to our Authorized Service Center for service. Allow two to four weeks for repair or replacement. You are responsible for all transportation and insurance charges to our service center, except for failures which occur within ninety (90) days of the retail purchase date. If you are requesting warranty service within ninety (90) days of retail purchase, call our service center at 1 866-562-5423 or 1 413-247-9423 (from outside U.S. call 001-413-247-9423) for return shipping authorization. We will be responsible for all transportation and insurance charges to return the product to you throughout the entire two (2) year warranty period.

Return the device to: SonicSolutions[®], LLC, 77B West Street, West Hatfield, MA 01088 U.S.A. Telephone: (413) 247-9423

NOTE: Product must be accompanied with proof of purchase in the form of a copy of the dated purchase receipt with the serial number of the device, and a description of the problem, and a phone number and contact name.

Upon receipt, SonicSolutions[®], LLC will, at our option, repair or exchange the device for a new or refurbished device.

The above warranty is subject to the following conditions:

1. You must retain your bill of sale.
2. All warranty servicing of this product must be made by our Authorized Service Center.
3. U.S.A. warranty is effective only if product is purchased through an Authorized Dealer.
4. Warranty extends only to defects in materials or workmanship as limited above and does not extend to any product parts which have been lost or discarded by you; or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning; or fluctuations in electric power, improper installation, improper maintenance or use in violation of instruction furnished by us; or on devices on which repairs have been attempted by unauthorized person(s); or to devices that have been altered or modified without the expressed authorization of SonicSolutions[®], LLC; or to damage to products or parts thereof, which have had the serial number removed, defaced, altered, or rendered illegible.
5. Repairs made under warranty do not extend the warranty period on the device beyond the original two (2) year warranty.
6. DO NOT operate device out of the water. This will result in the deforming of transducer head and will void your warranty.

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall SonicSolutions[®], LLC be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of this warranty in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of SonicSolutions[®], LLC arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under U.S. state law or (outside U.S.) under law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state (or country to country). Some states and countries do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

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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	—	—	

*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)

Contact Information



Toll free: **1-866-KO-ALGAE** (1-866-562-5423)
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