



## OWS AerMaster Pro Electric Aerator Installation Manual

The Outdoor Water Solutions AerMaster Pro Electric Aerator is designed to help keep your pond clean and healthy year around. We hope you enjoy your Aeration system for many years to come.

### **Installation Instructions:**

Attach your airline to each of the airlines exiting the AerMaster cabinet. Run each airline out to the place in the pond where you want your diffuser and attach your diffuser. For diffusers with a base, lower the diffuser down to the bottom of the pond. Using a thin rope can help to keep the diffuser and base upright. You don't have to tie the rope on, just fold the rope in half, lower the diffuser, then pull the rope up by pulling on one half. **Note: For rubber membrane diffusers with a base, you will need to unscrew the rubber membrane from the base and add some sand or gravel to add weight so it will sink to the bottom.**

If your diffuser does not have a base (rubber membrane diffuser or ceramic air stone), then inserting the diffuser into a bucket can help keep it out of the mud and muck on the bottom. Adding 3-5 lbs. of sand or rock to the bottom of the bucket prior to inserting your diffuser helps sink and stabilize your bucket. **Note: Teflon tape is recommended, but not required for threaded connections. If you have a rubber membrane diffuser with the airline coming off of the side, you can drill a hole in the side of the bucket and run your airline thru the side.**

We also suggest installing your diffuser into the deep part of the pond to ensure complete circulation of your water. The exception to this would be if you're wanting to keep the water open for watering livestock in the winter, then you can put the diffuser closer to the shoreline (or move it there in the fall). You can also place the diffuser in a more shallow area if you are in a northern climate and have trout, walleye, Northern pike or Muskie in the pond and want the deep parts of the pond to remain colder in the summer months.

The use of OWS Weighted Air Line will help keep the airline submerged and on the bottom of the pond. In the absence of using weighted airline, tie rebar, bricks, blocks, etc. to non-weighted airline to help keep it submerged.

**Note:** Air will travel to the point of least resistance or to the shallow diffusers first. Adjusting the airflow so that it goes to the deepest diffusers is usually required.

**First time and Spring startup:** We recommend turning your electric aerator on for an hour the first day, then increasing the time by double your hours each day until it is running continuously. On rare occasions, you can have a pond "turnover" if you turn aeration on continuously in a pond not previously aerated. This means the oxygen deprived water in the bottom of the pond rises to the top and your fish cannot survive due to the low oxygen conditions. Doing this startup procedure can prevent any potential issues.

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1-866-471-1614 or 1-479-756-1614

## Maintenance Instructions

**Note: The compressor has working parts that must be serviced. By scheduling routine maintenance this will increase the life of your compressor.**

### Air Filter replacement/Cleaning

Air filter replacement or cleaning: Unplug system from power source. Remove compressor air intake filter and wash with soap and water or replace with new filter cartridge. Washing or replacing should be completed 2-4 times per year. Do not reinstall a wet or damp filter cartridge.



Twist to unlock



Remove top of filter housing  
clean or replace



Line the notches twist and lock

### Rebuild kit for piston compressor

In normal continuous year-round usage, the compressor piston cups typically last 24-36 months. As the piston cups wear out you will notice a drop in airflow resulting in a smaller surface boil at the diffuser. At this time complete a rebuild piston kit and replace or clean filter element.

### Safety

Refer servicing to a qualified electrician if:

- Compressor fan, outlet or any other electrical component is in need of service.
- If the power cord is frayed or damaged.
- If the compressor or fan is producing unusual noises and/or odors.
- GFCI continuously is tripping

### The Outdoor Water Solutions 2 Year Limited Warranty

This warranty covers all AerMaster aeration systems for 2 years from purchase date against defects in workmanship.

1. Outdoor Water Solutions, Inc. (OWS) will replace or repair any part deemed to be defective by Outdoor Water Solutions, Inc., due to defects in quality and/or workmanship within a 2 year period from the initial date of purchase. Note: Wearable parts are considered routine maintenance if needed.
2. Warranty does not apply to OWS products which were installed incorrectly, subject to an accident or neglect.
3. Product returned for Warranty repair must be returned to the address specified by the Manufacturer freight prepaid, and any warranty product sent to the customer will be sent freight prepaid;

4. Warranty coverage may be void if parts other than genuine Outdoor Water Solutions parts are utilized for repair or attached to an Outdoor Water Solutions Aeration system.
5. Proof of purchase date is required for warranty repairs.
6. If you have any warranty concerns, please contact Outdoor Water Solutions Windmills Inc. at 1-866-471-1614 in Canada or USA. International customers can call 1-479-756-1614 with any warranty concerns.

### **Return Materials Authorization**

- A return materials authorization (RMA) number must be obtained prior to returning any product for warranty work.
- You can call the Outdoor Water Solutions warranty department at the following numbers:
  - Canada and USA – 1-866-471-1614
  - International (outside Canada and USA) – 1-479-756-1614

Note: Serial Numbers are located under the top plate so they are protected from weather.

*Outdoor Water Solutions Inc. recommends that, for future reference, you should keep this Installation Manual in a convenient location.*

Serial number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

## Troubleshooting Guide

Problem	What to look for	Usual Cause	How to Correct
Compressor shakes erratically and makes unusual noises	Check for low voltage while compressor is under load	Gauge of supplied wires to circuit possibly undersized or cabinet is plugged into extension cord	If gauge of wire is incorrect, have an electrician correct. <b>NEVER</b> use an extension cord to operate system
	Inspect intake filter for clog or blocked silencer tube in top of filter housing	Filter needs to be replaced or blockage in silencer tube in filter housing	Clean or replace filter never use a wet filter. Remove any debris that maybe clogging silencer tuber
Compressor stops working for periods of time, then restarts	Inspect cabinet cooling fan for proper function	Compressor overheating from non-working fan	Contact Outdoor Water Solutions or your local dealer. Leave lid open if possible if not unplug system until fan is replaced
No bubbles from any diffuser or airstone, but compressor and fan are running	Check for air leaks, Compressor is running louder and excessive vibration	Compressor intake filter is dirty/clogged or silencer tube is blocked	Clean or replace filter.
	Compressor operating normally or making usual noises. Reduced pressure/ airflow	Compressor needs pistons rebuild kit and new intake filter	Contact Outdoor Water Solutions or your local dealer
No bubbles at one or more diffuser or airstone, compressor and fan are running	Are all valves in cabinet wide open?	Improper balancing of airstones or diffusers	Adjust valves on manifold in cabinet until all diffuser or airstones operate properly
	Valves in cabinet manifold properly balanced and no leaks.	Compressor is beginning to lose compression and needs a rebuild kit.	Contact Outdoor Water Solutions or your local dealer