



AIRMAX[®]

Power House[®] Surface Aerator Owner's Manual

1/2 HP • 115v/60Hz

3/4 HP • 115v/60Hz

3/4 HP • 230v/60Hz

1 HP • 115v/60Hz

1 HP • 230v/60Hz

OWNER’S MANUAL FOR:

Power House 1/2 HP, 3/4 HP & 1 HP
Surface Aerator



THANK YOU FOR CHOOSING
The Power House®
Surface Aerator

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Power House Surface Aerator

Owner's Manual

Power House Surface Aerator



- Operating Depth: 18" Minimum
- Includes: Power Unit, Float & Power Cord
- 2 Year Warranty

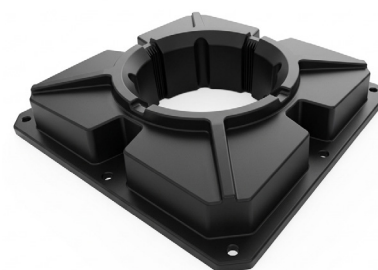
2. Important Safety Instructions

- Under NO circumstances should anyone enter the water with the electrical equipment plugged in and/or in operation.
- Warning - Risk of electric shock. This aerator is supplied with a grounding conductor. To reduce the risk of electric shock, be certain that the aerator control panel is connected only to a properly grounded power source. This aerator has not been approved for use in swimming pool areas.
- NEVER run the unit out of the water. It will damage the seals and can cause permanent damage to the internal components.
- NEVER lift or drag the aerator by the power cord.
- During freezing temperatures, remove the aerator and store inside.
- If installing the aerator from a boat or raft ALWAYS wear a Coast Guard approved personal flotation device.
- ALWAYS use a qualified electrician to install a power source.
- ALWAYS keep hands, feet, cords and mooring cables clear of the unit before connecting to the power supply.

1. System Components



Power Unit
115v or 230v



Float



Power Cords
115v: 50', 100', 150', 200'
230v: 50', 100', 150', 200',
250', 300' & 400'



Optional 115v & 230v Control Panels

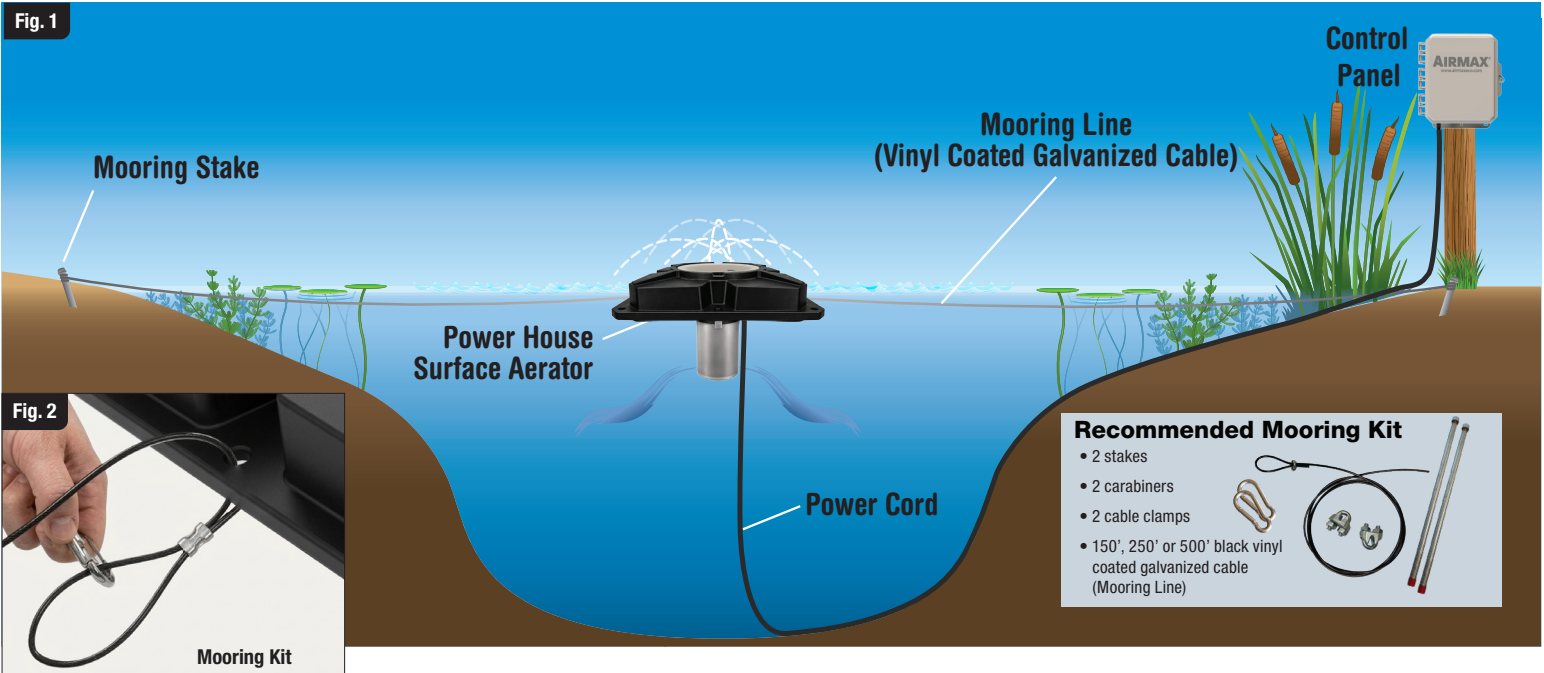


Optional Intake Screen



Optional RGBW 3-Light Set

Fig. 1



A. System Components:

1. Surface Aerator Power Unit
2. Surface Aerator Float
3. Power Cord
4. Control Panel (optional)
5. Intake Screen (optional)
6. Light Set (optional)
7. Mooring Kit (optional)

Mooring Kit Options:

- #651052 – 150' Mooring Kit
- #651054 – 250' Mooring Kit
- #651055 – 500' Mooring Kit

* Mooring Kit Not Included with Aerator

B. Prepping the Power House Surface Aerator for Installation:

- 1) **Ensure you have power close to your pond.** If you don't, we recommend to ALWAYS use a licensed electrician to properly run power down to the pond.
- 2) If using the optional control panel, mount it in a fixed position next to the power source. (For control panel installation instructions, please see the control panel manual)
 - a) If you are unable to perform the installation of your control panel, please contact your Certified Airmax Service Technician and they can perform this installation for you.
- 3) **Assembling the Unit**
 - a) If installing the optional intake screen (sold separately), complete steps i-v. Proceed to **step b** if installing without the intake screen.
 - i) Join one screen section to another by slipping the 3 interlock tabs from one section through the 3 open slots the other section. **(Fig. 3)**
 - ii) Next, gently move the two sections in opposing directions to lock them together. **(Fig. 4)**
 - iii) Repeat for the remaining sections until the entire 4-piece assembly is locked together.
 - iv) Rest the intake screen on a flat surface and place the float on top of the intake screen assembly so the 4 mounting posts align with the 4 pockets on the under side of the float.
 - v) Secure the intake screen assembly to the float using the 4 fender washers and 4 thumb screws provided. **(Fig. 5)**
 - b) Place the surface aerator power unit assembly into the center of the float.
 - c) If your aerator's power cord has a quick disconnect, ensure that there is a drop of dielectric grease in each of the receptacle holes, then attach the power cord quick disconnect to the power unit quick disconnect.
 - d) Ensure the power cord is routed through one of the open channels on the rim of the float so that the shroud rests evenly in the opening. Use a cable tie as a strain relief to attach the power cord to the nearest hole on the perimeter of the float.



e) Installing an Airmax RGBW LED 3 Light Set (sold separately). If installing without lights, proceed to step f.

- i) To attach a light, remove the thumb screw, clip the light clamp over the desired hole on the perimeter of the float and secure with the thumb screw. (Fig. 6)
- ii) Position a 3 Light Set using two corners and one midpoint position on the float as shown. (Fig. 7)
- iii) If the light set has a quick disconnect, ensure that the light power cord has a drop of dielectric grease in each receptacle hole before securing the power cord disconnect to the light set disconnect.
- iv) Use a cable tie as a strain relief and secure the light power cord to the nearest hole on the perimeter of the float.

NOTE: Once lights are installed, adjust the lights to the desired direction. Positioning the lights vertical or 5°-10° inward is all that is typically needed for surface aerators and fountain aerators.

f) Installing your Power House Surface Aerator in your pond or lake.

- i) Attach a mooring cable (not included) using two opposing holes on the float. If a light set is installed, use two opposing mooring holes that are approximately 180° apart. (Fig. 2)
- ii) Pick up the aerator by the float and place it in the water.
- Note: A minimum of 18" of water is required for proper operation.**
- iii) Hook one side of the mooring line loop to a stake and drive the stake securely into the ground with a hammer or mallet.
- iv) Take the other stake and mooring line and walk around the pond, carefully pulling the aerator across the water. Once the aerator is in position, hook the second mooring line to the second stake and drive it securely in the ground.
- v) Ensure both mooring lines are snug to prevent the surface aerator from twisting and shifting during operation. (Fig. 1)
- vi) To anchor the surface aerator using blocks, spread the blocks far apart (at approximately at 45° angles to the float) so the mooring lines are snug and the fountain cannot spin from the force of the motor, which would cause the mooring lines to become tangled.
- vii) Once the unit is secure, plug the power cord into the power supply.

NOTE: If using the optional Airmax control panel, refer to the control panel manual for installation, wiring, timer function and programming.



4. Maintenance & Winter Storage

A. Maintenance

- 1) Disconnect ALL power from the aerator and lights before attempting any maintenance.
- 2) Periodically clean aerator of debris, algae and/or aquatic weeds.
- 3) Periodically clean light set lenses with a non-abrasive brush and Airmax D-Scale.
- 4) Clean the motor can with Airmax D-Scale.

B. Winter Removal & Storage

- 1) Pressure wash and store the power unit, float and light set indoors.
- 2) Inspect the propeller and motor shaft for damage.
- 3) Replace the aluminum anode on the motor shaft.

C. Spring Installation Inspection

- 1) If the power cord remained on site, inspect the cord for any signs of damage.
- 2) Inspect the (optional) control panel enclosure and main power source for proper voltage and function. Verify timer settings for aerator and lights if an Airmax control panel is installed on site.
- 3) Verify amp draw and run voltage and record install data.

IF AERATOR WILL NOT TURN ON

ISSUE	CORRECTION
GFCI tripped	Reset GFCI
Power cord cut	Repair or replace power cord
Intake plugged	Clean intake
Timer not running	Check power to timer & backup battery
Not enough water in reservoir	Bring water level up to at least 18" at aerator
Aerator propeller stuck	Remove aerator, clean or replace propeller
Breaker tripped due to overcurrent	Reduce current load on circuit, check other equipment

IF AERATOR HAS POOR FLOW

ISSUE	CORRECTION
Intake plugged	Clean intake
Not enough water in reservoir	Bring reservoir level back up to 18"
Propeller damaged	Inspect / replace propeller
Debris stuck in the discharge	Inspect / clean discharge

IF AERATOR STARTS AND STOPS

ISSUE	CORRECTION
Intake plugged	Clean intake
Not enough water in reservoir	Bring reservoir level back up to 18"

IF PATTERN RAISES AND LOWERS

ISSUE	CORRECTION
Not enough water in reservoir	Bring reservoir level back up to 18"
Water coming over the float	Check float for damage, replace if needed

IF AERATOR IS HUMMING - RUNNING

ISSUE	CORRECTION
Normal running	Nothing

IF AERATOR IS HUMMING - NOT RUNNING

ISSUE	CORRECTION
Intake plugged	Clean intake
Low Voltage	Check voltage at power supply
Aerator propeller stuck	Inspect / clean discharge
Capacitor failing	Oil & seals servicing required, replace capacitor

* If your issue persists or is not covered in the troubleshooting guide above, please contact your Certified Airmax Service Technician to perform any troubleshooting measures you are uncomfortable with or are unable to perform yourself. For Airmax light set troubleshooting measures, please refer to the Airmax RGBW LED Light Set Manual

6. Replacement Parts**Motor Components****1. Propellers**

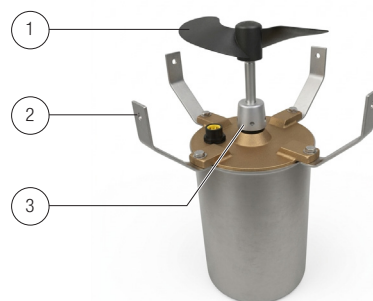
- 130948 Power House ½ HP Replacement Propeller
131101 Power House ¾ & 1 HP Dual Propeller Assembly

2. Brackets

- 131573 Power House Surface Aerator Motor Mount Bracket with Hardware 4 Pack, G2

3. Anodes

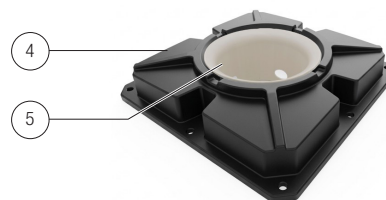
- 131010 Power House Aluminum Anode ½" Diameter (All Models)

**Float Components****4. Float**

- 132875 Power House Surface Aerator & Fountain Aerator Float, G2

5. Motor Shroud

- 131014 Power House Surface Aerator & Fountain Aerator Shroud

**Accessories****6. Mooring Kits**

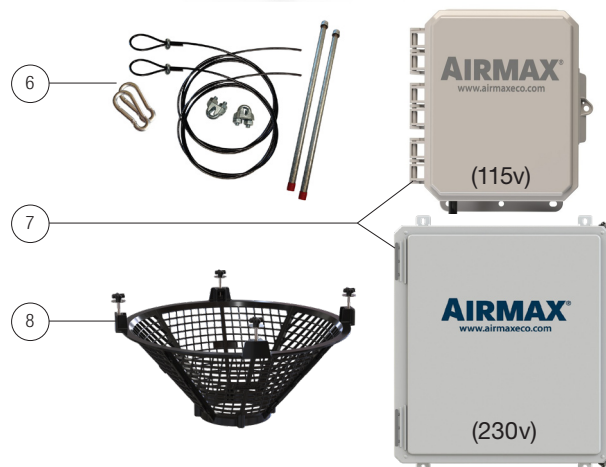
- 651052 Airmax 150' Mooring Kit, (2) 75' Cables
651054 Airmax 250' Mooring Kit, (2) 125' Cables
651055 Airmax 500' Mooring Kit, (1) 500' Spool

7. Control Panels

- 651730 Airmax 115v Plug & Play Control Panel
652107 Airmax 230v Control Panel

8. Intake Screen Assembly with Hardware

- 132906 Intake Screen Assembly



Airmax, Inc.

Power House Surface Aerator

Limited Warranty

Airmax, Inc. warrants to the original purchaser (the end user) of any Power House Surface Aerator manufactured by Airmax, Inc. that any component which proves to be defective in materials or workmanship, as determined by the factory within 2 years from the original purchased date, will be repaired or replaced at no charge with a new or remanufactured part, and returned freight prepaid. The end user shall assume all the responsibility and expense for removal, packaging, and freight to ship to Airmax, Inc. to determine the warranty claim and for all reinstallation expenses.

The warranty is void in cases where damage results from: improper installation, improper electrical connection, improper voltage, alteration, lightning, careless handling, misuse, abuse, disassembly of motor or failure to follow maintenance or operating instructions. Modification or repair by an unauthorized repair facility will void the warranty.

In no case will Airmax, Inc. or its dealers accept responsibility for any costs incurred by the user during installation, removal, inspection, evaluation, repair, parts replacement, or for return freight. Nor will any liability be accepted for loss of use, loss of profits, loss of goodwill, for consequential damage, or for personal injuries to the purchaser or any person.

In the event of problems believed to be covered under warranty, it will be necessary to notify the dealer who will try to help resolve the problem and who may contact the factory for additional assistance. If it is concluded that there may be a defect which may be covered under warranty, it will be necessary to get a Return Material Authorization (RMA) from the dealer before shipment. Freight collect shipments will not be accepted by the factory on warranties or repairs.

The product or part(s) must be returned freight prepaid, to the factory, as directed, and in its original packaging or in a container which will prevent damage. Parts returned under warranty and damaged during shipping will not be covered under warranty for the shipping damage. If the factory evaluation of the returned goods concludes that the failure is due to defects in materials or workmanship, the part or parts in question will be replaced under warranty with new parts, remanufactured parts, or will be repaired at the factory's option. The warranty period for all parts supplied under warranty will terminate at the end of the original product's warranty. All warranty shipments from the factory will be shipped freight prepaid.

Warranty registration is HIGHLY recommended.

No implied warranties of any kind are made by Airmax, Inc. for its products, and no other warranties, whether expressed or implied, including implied warranties of merchantability and fitness for a particular purpose, shall apply. Should an Airmax, Inc. product prove to be defective in materials or workmanship, the retail purchaser's sole remedy shall be repair or replacement of the product as expressly provided above.

The manufacturer's warranty will begin from the dealer's original purchase date if the product is not registered. To register a product, you are required to fill out the warranty registration form at airmaxeco.com/warranty. Warranty registration must be submitted directly to Airmax within 30 days of the end-user's purchase date.



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