



MASTER THE **POWER** AND **BEAUTY** OF WATER



# Solar AquaAir® Ultra Aeration Systems Owner's Manual

Solar AquaAir® Ultra 1-2  
Piston Compressor  
24V



Every **AquaMaster®** Solar AquaAir® Ultra Diffused Air Aeration System is fully inspected and produced in accordance with applicable standards for safety. **AquaMaster's®** commitment to excellence ensures superior aquatic management systems.

All **AquaMaster®** products are designed and built to be installed as a complete system. Any alterations to or substitution for items in this system, unless allowed by these installation instructions, will void the product warranty. It may also create a hazardous installation. Read these instructions thoroughly before starting your installation and follow them carefully throughout.

### **WARNING**

**NOTICE:** These installation and operation instructions should be kept in a safe place. Make sure to pass these installation and operating instructions to subsequent owners. The information provided is intended to notify and warn them about making unsafe modifications, repairs or using unauthorized parts or repair facilities.

- Read the entire manual before attempting to install, service or operate any Solar AquaAir® Ultra Diffused Air Aeration unit.
- Improper installation, operation, service, repair, maintenance or alteration of this product may result in property damage or bodily injury.
- Disconnect electrical power before servicing this unit.
- Use only parts that are supplied or approved by **AquaMaster®**. Use of other parts may result in poor performance, void warranty and could create a hazardous situation.

**NOTICE:** In the event of a motor thermal overload the compressor unit will stop and automatically restart upon cooling if the unit has power to it.

**NOTICE: DO NOT** carry this unit while it is in use.

Please read the following instructions thoroughly before operating your Solar AquaAir® Ultra system.

Failure to follow the recommendations may result in personal injury or voiding of the product warranty. For additional safety information or supplied materials concerning your Solar AquaAir® Ultra system call **AquaMaster®** at 800-693-3144 or 920-693-3121.

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## SHIPPING CLAIMS

When you receive your **AquaMaster®** unit, examine the package for any signs of external damage it may have sustained en route. If there is apparent damage either outside the box or to its contents, make a claim with the shipper immediately. Save the original shipping carton and the packing material if a claim is to be filed.

## **SOLAR AQUAAIR® ULTRA AERATION SYSTEM**

### **SOLAR AQUAAIR® ULTRA 1-2**

**AquaMaster's®** Solar AquaAir® Ultra Diffused Air Aeration system is the most efficient, durable, state of the art sub-surface aeration system in the Industry today.

Our revolutionary, stainless steel compressor enclosure will provide a lifetime of rust and corrosion protection, and provides superior cooling and performance.



Solar AquaAir® Ultra 1 - 2

Your **24 Volt** Solar AquaAir® Ultra Diffused Air Aeration System information is as follows:

- Solar AquaAir® Ultra 1 - (1) Single Head Compressor  
- 1.2 Running Amps
- Solar AquaAir® Ultra 2 - (1) Single Head Compressor  
- 3.2 Running Amps

## SYSTEM MATERIALS AND PARTS LIST

**Failure to remove foam packing material from between compressor and housing will result of overheating of the compressor.**

Verify that the following was received:

### **Rectangular Compressor Enclosure:**

The rectangular compressor enclosure constructed of stainless steel provides a lifetime of rust and corrosion protection. This innovative design extends the life of the compressor and its components because of the superior cooling capabilities. The enclosure is assembled complete with the compressor, air intake filter, cooling fan and air discharge hose.

### **Diffusers with Single Round Hollow Base and Vent Plug:**

Note quantity of diffuser stations should match system ordered, example:

Solar AquaAir® 1 Ultra should have 1 diffuser station.

Diffusers will be 9":

1. Single 9" diameter membrane flexible diffuser disc for higher fouling resistance.



### **Selected Length of Weighted Super Sink Air Discharge Tubing:**

Used to supply air from the compressor enclosure on shore, along the lake bottom to the diffuser. Additional lengths connect with PVC insert fittings and PVC glue. Heavy, .275", wall thickness provides protection from puncture or kinking.

### **Parts:**

Stainless steel hose clamps, one for each diffuser and for each compressor brass hose barbs or insert fittings. Also included is one PVC insert fitting per 100 feet of Super Sink tubing.

### **Solar Panels:**

Used to supply power to the Solar AquaAir system. Will contain one (1) Solar AquaAir Ultra 1 or two (2) Solar AquaAir Ultra 2 panels

### **Batteries:**

Sealed Lead Acid batteries provide backup power for continuous operation. Will contain two (2) Solar AquaAir 1 or four (4) Solar AquaAir Ultra 2 batteries

# SOLAR AQUAAIR ULTRA ASSEMBLY INSTRUCTIONS

## Equipment Needed:

- Quikrete
- 4" schedule 40 steel pole
- Shovel or Post Hole Digger
- (2) 7/16" open end wrenches
- (2) 1/2" open end wrenches
- (2) 9/16" open end wrenches
- Socket set with 7/16", 1/2" and 9/16" sockets
- Angle Gauge or Protractor
- Flat Blade Screwdriver
- Tubing Cutter

## PREPARATION FOR INSTALLATION

1. Determine an installation location for the solar panel and compressor enclosure. The solar panel must have an unobstructed view of the sun (solar south for northern hemisphere; solar north for southern hemisphere) and be free from shadows of nearby objects throughout the day. The compressor enclosure will need a level site away from everyday activity. If you desire to hide the compressor enclosure with landscape bushes, shrubs, or plantings, it is necessary to provide adequate clearance between these and the compressor enclosure for proper cooling. **DO NOT block the air intake holes.**

**CAUTION: The compressor enclosure must be located a safe distance from the ponds edge, standing water, flooding and irrigation sprinklers.**

2. Consult top pole mount installation instructions to determine what length of 4" SCH 40 steel pole will be needed. The solar pole mounting pole should be secured with concrete. Allow 24 hours for the concrete to cure before assembling the solar panel mount to the pole.
3. Locate the enclosure assembly on a solid, level surface. If building an additional support structure, make sure it is adequate to support the weight of the Solar AquaAir Ultra system. The Solar AquaAir Ultra 1-2 are mounted on a polyethylene base. When an additional support structure is required, make sure it can adequately support the weight of the Solar AquaAir Ultra system. Also, make sure there is enough space between the support pad and the poly base to connect the Super Sink tubing to the high-temperature discharge hose from the compressor.
4. Attach the panel mount and solar panels to the pole. Refer to the instructions included with the top pole mount. The panel mount will include all the hardware needed. The solar panels come prewired with MC4 connectors for easy electrical hookup.

# SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS

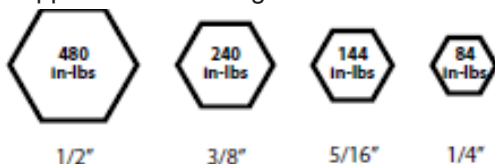
## INTRODUCTION

The Top of Pole Mount is a very sturdy and universal pole mounting solution for small area solar photovoltaic (PV) needs. With its user-adjustable angle settings, the Top of Pole Mount can support installations in a wide range of locations. Panel and pole support varies with the model.



## TOOLS REQUIRED

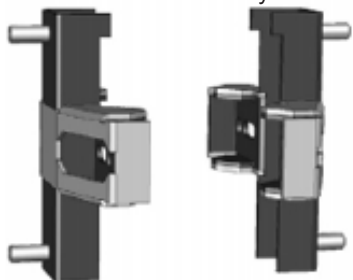
A wrench that supports the following size hex heads:



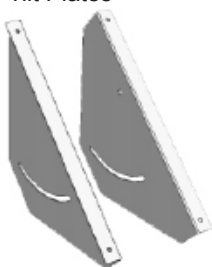
## COMPONENTS LIST

The following parts are used for small Top of Pole mounts and ships with necessary hardware.

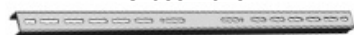
Brace Assembly



Tilt Plates



Cross Rails



Channel Rails



Channel Rail Connectors  
(Only for 04A)



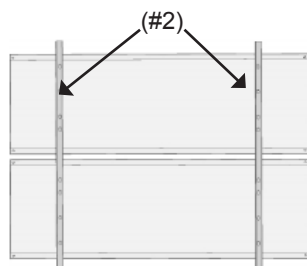
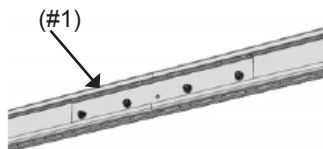


# SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS (cont.)

## ASSEMBLY

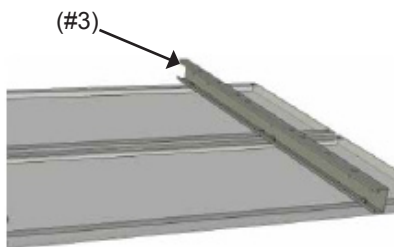
### Step 1. Connecting Channel Rails (#1) (Only for UNI-TP models: 04A)

- A. Lay two channel rails (#1) end to end.
- B. Using a connector, bolt the channel rails (#2) together. Tighten the 5/16-18 x 3/4" hardware (hex bolt, flat washer, lock washer, and hex nut) to 144 in-lbs (dry).
- C. Repeat with the remaining set of channel rails.



### Step 2. Attach Channel Rails (#3) to Module(s)

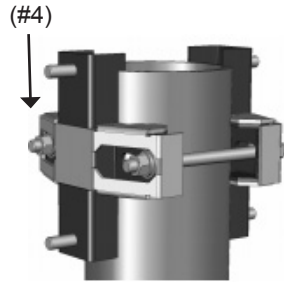
- A. Lay the modules face down on a protected surface in the suitable orientation. Leave at least 1/4" between panels.
- B. Lay the channel rails (#3) on the back of the modules with the evenly-spaced holes down, so the flat side of the rails are facing towards the outside edges of the panels.
- C. Secure the rails with 1/4-20 x 3/4" hardware (hex bolt, flat washer, lock washer, and hex nut) in each of the PV mounting holes. Tighten the bolts to 84 in-lbs (dry).
- D. Repeat steps, attaching the remaining PV modules to the remaining channel rails.



## SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS (cont.)

### Step 3. Attach Brace Assembly (#4) to Pole

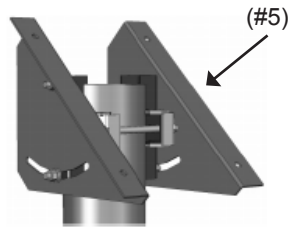
- A. Place the brace assembly (#4) onto the pole so the “lip” catches the top of the pole.
- B. Install the 3/8-16 x 6” hardware (stud, flat washer, lock washer, and hex nut) as shown.
- C. Tighten the stud nuts evenly, making sure that both studs are tightened the same amount so the distance between braces is the same on the front and the back.
- D. Tighten the 3/8” studs to 240 in-lbs (dry).



Includes Small Pole Bracket Kit with  
3/8-16 x 6" All Thread Rod (Stud)

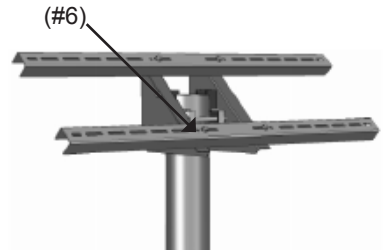
### Step 4. Attach Tilt Plate (#5)

- A. Place the tilt plates (#5) on the brace assembly as shown. Use a 3/8” flat washer, lock washer and hex nut on each stud, and finger-tighten.



### Step 5. Attach Cross Rail (#6)

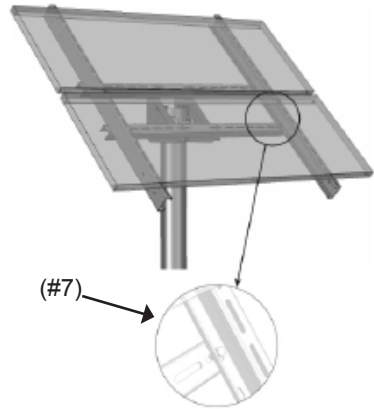
- A. Place the cross rails on the tilt plates (#6) with the open side facing down and attach using 5/16-18 x 2.50” hardware (hex bolt, flat washers, lock washer, and hex nut).
- B. Tighten the bolts to 144 in-lbs (dry).



## **SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS (cont.)**

### **Step 6. Attach PV Assembly(s) (#7)**

- A. Lift the PV array assembly onto the cross rails (#7) and attach using 5/16-18 x 1" hardware (hex bolt, flat washers, lock washer, and hex nut).
- B. Tighten the bolts to 144 in-lbs (dry).
- C. Adjust the tilt of the panel, then tighten then tighten the tilt plate nuts to 144 in-lbs (dry).



## **INSTALLER RESPONSIBILITY**

The installer is solely responsible for:

- i. Complying with all applicable local or national building codes, including any that may supersede this manual;
- ii. Ensuring that Solar and other products are appropriate for the particular installation and the installation environment;
- iii. Using only Solar parts and installer-supplied parts as specified by Tamarack Solar. Substitution parts may void the warranty;
- iv. Ensuring safe installation of all electrical aspects of the PV array; and
- v. Ensuring correct and appropriate design parameters are used in determining the design loading used for the

# SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS (cont.)

## FOUNDATION RECOMMENDATION ADDENDUM

**Note:** The suggestions below are recommendations only. It is the installer's responsibility to validate foundation parameters prior to installation, as a local geotechnical report may be required to assess ground conditions. We recommend consulting with a local engineer familiar with local regulations and build site requirements, including soil conditions, terrain and load criteria (wind, snow, seismic). These parameters may impact foundation requirements.

Foundation Hole Parameters and Length of 4" SCH 40 Steel Pole					
Model	MAX. Wind Speed	MIN. Post Hole Diameter	MIN. Post Hole Depth	MIN. Pole Depth	MAX. Length of Steel Pole*
Solar AAU 1	90 MPH	15"	46"	40"	9.33 ft.
Solar AAU 2	90 MPH	18"	60"	54"	10.5 ft.

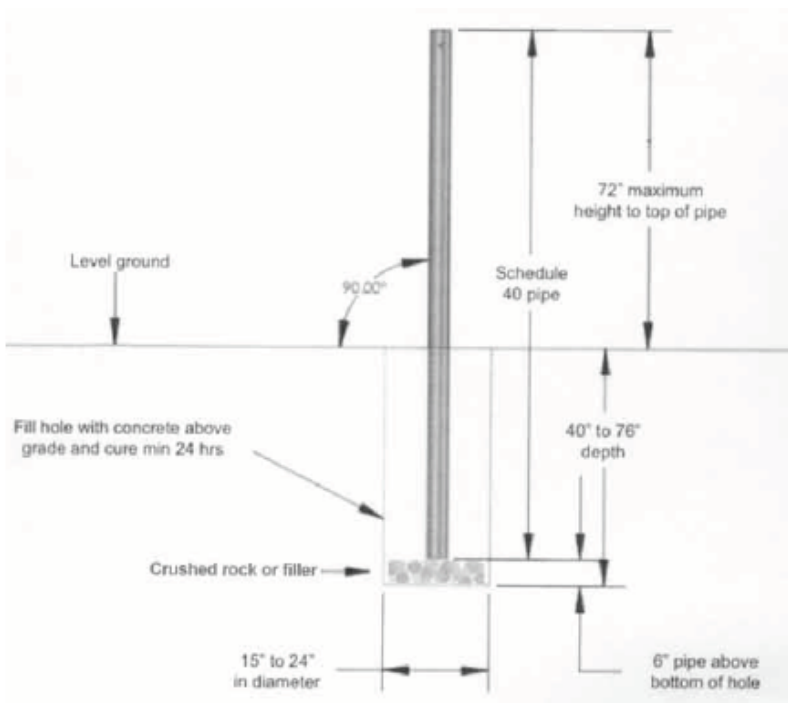
\* Steel Pole MUST NOT be taller than 72" (6 feet) above the ground.

# SOLAR PANEL TOP POLE MOUNT ASSEMBLY INSTRUCTIONS (cont.)

## INSTALLATION RECOMMENDATIONS

- Auger hole to minimum depth shown in Table 2.
- 6" of hole should be filled with crushed rock or blocking. This will prevent the pipe from touching the base of the hole, insuring complete encapsulation of the pipe when concrete is poured, as well as allowing for water drainage. See Fig. 1.
- Pipe should be installed vertically no matter the slope of the install site.
- Make arrangements to prevent the pipe from twisting prior to pouring concrete.
- Pipe should be braced to remain plumb until concrete has cured (at least 24 hours).

**FIGURE 1:** Top of Pole Foundation Guideline Diagram



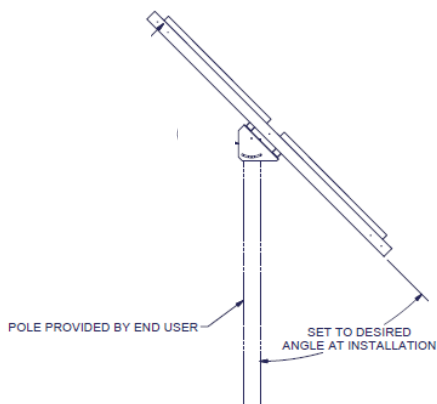
## SOLAR AQUAAIR ULTRA INSTALLATION INSTRUCTIONS (cont.)

5. Set the solar panel tilt angle using the formulas below. The panel tilt angle is measured between the solar panels and the pole. There are multiple methods (fixed angle, twice a year tilt, and four times a year tilt) of setting your solar panel tilt angle with increased system efficiency the more it is adjusted. **AquaMaster** recommends adjusting the tilt angle at least twice a year. The below table details the formula used to find your tilt angle.

Fixed Angle	
Latitude (deg)	Angle Calculation
0-25	$90 - (\text{Latitude} * 0.87)$
25+	$87 - (\text{Latitude} * 0.76)$

Twice a Year Tilt Angle		
Latitude (deg)	Summer Angle Calculation	Winter Angle Calculation
All	$105 - \text{Latitude}$	$75 - \text{Latitude}$

Four Times a Year Tilt Angle			
Latitude (deg)	Summer Angle Calculation	Spring/Fall Angle Calculation	Winter Angle Calculation
All	$113.5 - (\text{Latitude} * 0.9)$	$92.5 - \text{Latitude}$	$61 - (\text{Latitude} * 0.9)$



## **SOLAR AQUAAIR ULTRA INSTALLATION INSTRUCTIONS (cont.)**

6. (For Solar AAU1 only) Connect the solar panel positive (+) lead to the inline fuse included with your unit. Connect the solar panels to the compressor enclosure using the male and female MC4 connectors preinstalled on your solar panel and compressor enclosure.
7. (For Solar AAU2 only) Connect the 2 solar panel positive (+) leads to the included wye connector with an inline fuse. Connect the 2 solar panel negative (-) leads to the remaining wye connector. Connect the wye connectors to the compressor enclosure using the male and female MC4 connectors preinstalled on your solar panel(s) and compressor enclosure.
8. Make sure the disconnect switch for the batteries is switched in the off position.

**CAUTION: Read and follow all safety information below before connecting batteries.**

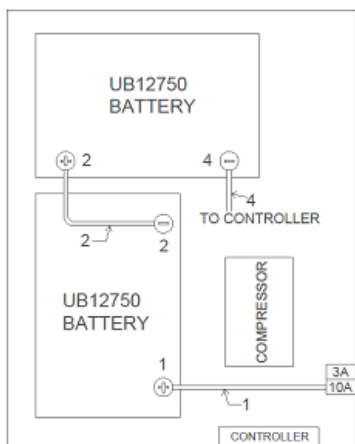
- Wear eye protection when working with batteries. Have water available to wash and clean any contact with battery acid.
  - Charge only lead-acid batteries that are properly sized for the system.
  - Explosive battery gasses can be present during charging. Make sure there is proper ventilation to release any battery gasses.
  - Only use insulated tools near batteries. Avoid metal objects near batteries.
9. **(SAAU1)** Place batteries into the compressor enclosure in between the eyebolts as shown in the diagram below and on the inside of the compressor enclosure cover. Place the included j hook bolts through the eye bolts. Place the compressor hold down bar over the batteries and through the j hooks. Fasten the bar using the supplied wing nuts.  
  
**(SAAU2)** Thread the included threaded rod into each of the threaded inserts in the base of the compressor enclosure. Place batteries into the compressor enclosure in between the threaded rod as shown in the diagram below and on the inside of the compressor enclosure cover. Place the compressor hold down bars over the batteries and through the threaded rod. Fasten the bar using the supplied wing nuts.

## SOLAR AQUAAIR ULTRA INSTALLATION INSTRUCTIONS (cont.)

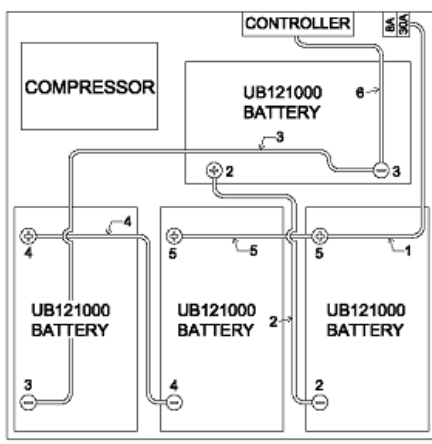
10. **WARNING:** Incorrectly connecting batteries can result in shock, explosion, or death. Please follow all safety information below.

- **When working with batteries, wear eye protection and have clean water available to wash and clean any area that had contact with battery acid.**
- **Charge only batteries that are properly sized for the system.**
- **Use insulated tools and avoid contact with metal objects when working around batteries.**

Connect the batteries to the charge controller using the provided wiring harness in the compressor housing. Each wire is numbered for proper connection. A wiring diagram is provided below and inside the lid of the compressor housing. The connections to the batteries can be secured using 7/16" tools. After each connection is made, place the provided terminal boots over the terminals to reduce the risk of accidental shock.



Solar AquaAir Ultra 1



Solar AquaAir Ultra 2



## DIFFUSER ASSEMBLY AND PLACEMENT

**CAUTION:** When in or around water always wear a Coast Guard approved life jacket and follow all water safety guidelines.

1. Fill the diffuser base completely with pea gravel or sand, if applicable, and insert the vent plug. Apply silicone grease (provided in packet) to the diffuser threads. Screw the membrane diffuser(s) discs onto the base riser pipes.
2. Determine the placement of the diffuser(s). It is recommended to install a marking buoy in the general location of where the diffuser(s) will be installed to act as a reference point. The diffuser(s) should be close to, but not centered in, the deepest portion of the waterway where the bottom is level and solid.

When fish are present, **DO NOT** place the diffuser(s) in water deeper than 35 feet. At depths greater than 35 feet mixing can cause dissolved nitrogen levels to rise becoming hazardous to fish.

3. Uncoil the roll(s) of air supply tubing along the shoreline. It is imperative that tubing not be twisted or tangled for proper installation. If more Super Sink tubing is needed, glue a PVC insert fitting between the required lengths of tubing. Let the PVC cement dry before pulling the tubing into the water.
4. Before installing the Super Sink tubing in the water, tie several feet of tubing to the compressor enclosure, post or wall. This will ensure you will have enough tubing to connect to the compressor and will not pull the free end of the tubing into the water.
5. Tie the free end of the tubing to the boat and head towards the marking buoy.
6. Connect the free end of the tubing to the diffuser assembly and secure it with a stainless steel hose clamp.

**NOTE:** PVC glue can also be used if additional tubing will not be added or diffuser location will not be changed in the future.

7. Thread one end of rope through the two eyelets of the diffuser base – these are the larger diameter holes. Pull through until the base is at the midway point of total rope length.
8. Hold the two ends of the rope in your hand and lower the diffuser assembly slowly into the water. Air in the diffuser base will begin to vent causing unit to sink to the bottom of the lake.
9. Once the diffuser assembly is situated on the lake bottom, release **one end** of the rope and pull the rope back into the boat. Following the above installation guidelines will help ensure that the diffuser assembly does not invert during installation.

**NOTE:** The ropes on the diffuser assembly can be left attached to a float or buoy for future repositioning or removal of the diffuser assembly only if it is not a liability to boaters, fisherman and swimmers when they are present.

## **DIFFUSER ASSEMBLY AND PLACEMENT (CONT.)**

10. On systems with multiple diffusers, repeat the previous procedures.
11. (In pond) installation is now complete.
12. Trench and bury the Super Sink tubing from the water line to the compressor enclosure. This will need to be buried 4 – 6" below the surface.
13. Attach the open end of the Super Sink tubing to the brass hose barbs or insert fittings coming out of the compressor enclosure. Secure and tighten the stainless steel hose clamp(s).

## **COMPRESSOR START-UP PROCEDURES**

**CAUTION:** Remove foam packing and other packaging material from between the compressor and housing and dispose of properly. Failure to do this will result in overheating of the compressor.

1. When all installation is complete, flip the fused disconnect switch inside the compressor enclosure to on. The compressor should start within a few seconds.
2. On systems with multiple diffusers, adjust the air flow valves so the surface boil is approximately the same for all diffusers.
3. If upon startup or during operation, unusual noises or odors are detected in the compressor enclosure, unplug the compressor immediately until the problem is rectified. Call your representative or **AquaMaster®** to resolve any problems.

**DANGER:** To prevent severe shock or electrocution, always turn the power OFF at the disconnect switch before working with electricity. All maintenance and troubleshooting should be performed by a qualified electrician or serviceman.

## **SYSTEM STARTUP PROCEDURES**

Circulating the entire water column will aid in eliminating drastic temperature layering while maintaining or increasing dissolved oxygen levels.

**CAUTION:** The circulation of the ponds deep water which, is of poor quality and low in oxygen, can introduce harmful gases and by-products into the healthy upper regions of the body of water. If precautions are not taken when initial startup is implemented, the gases and harmful by-products will be mixed with the upper water and may make it harmful and unfit for aquatic life and can result in a fish-kill.

## PREVENTING INITIAL FISH-KILL

Implementing the following startup procedures that have been established can help in preventing a possible fish kill:

1. Turn on system and look for discolored water. Position yourself downwind of surface boil. If discolored water or a strong odor (i.e. rotten eggs) is present, do not operate the system for any longer than 15 minutes.

**NOTE:** If fish are present in the body of water but the foul odor is not noticed, let the compressor run for one hour the first day, two hours the second day, four hours the third day and so on until the system is running 24 hours a day.

2. Turn off the system for the remainder of the day.
3. Restart the system the next day and operate for 30 minutes. Turn the system off for the rest of the day.
4. Each day double the operating time from the previous day until the system is running continuously. This should take 8 days.

**NOTE:** The start-up procedures are to be used as a general guideline. If you should have any questions or concerns, contact your representative or **AquaMaster®** at 800-693-3144 or 920-693-3121 for technical assistance.

**NOTE:** If fish and aquatic life are not present in the body of water, you can start up the system and let the system run continuously.

## WINTER OPERATION & PRECAUTIONS

The Solar AquaAir® Ultra Diffused Air Aeration System has been designed to operate year-round and in all climates. In freezing weather and on ice covered bodies of water, certain precautions must be taken to prevent personal injury or fatalities.

**NOTE:** In extreme cold weather, the airflow may need to be decreased to keep the body of water open. The amount of open water vs. ice will be determined by the air and water temperature and the amount of air flowing to the diffuser(s).

### DANGER THIN ICE

**DANGER:** When operating the Solar AquaAir® Ultra system on ice covered bodies of water, the ice around the open water will be dangerously thinner than the rest of the body of water. Signs such as **DANGER THIN ICE** need to be posted of this condition. Injury and/or fatality may result if this danger is not posted. Owner assumes all responsibility.

To prevent freezing of the entire water column, the diffuser should be moved to a shallower portion of the pond (typically half the depth of original placement). Warmer water will remain in the lower regions. In extreme cold weather, the airflow may need to be decreased to keep the body of water open. The amount of open water vs ice will be determined by the air and water temperature and the amount of air flowing to the diffuser(s).

## DECREASED SURFACE BOIL

If the surface boil has decreased from the initial installation, check the following:

1. Air filter: Replace air filter, **AquaMaster®** part number is 940569 (Solar AquaAir Ultra 1) or 940017 (Solar AquaAir Ultra 2).
2. Piston Replacement: Replace every 18 months.

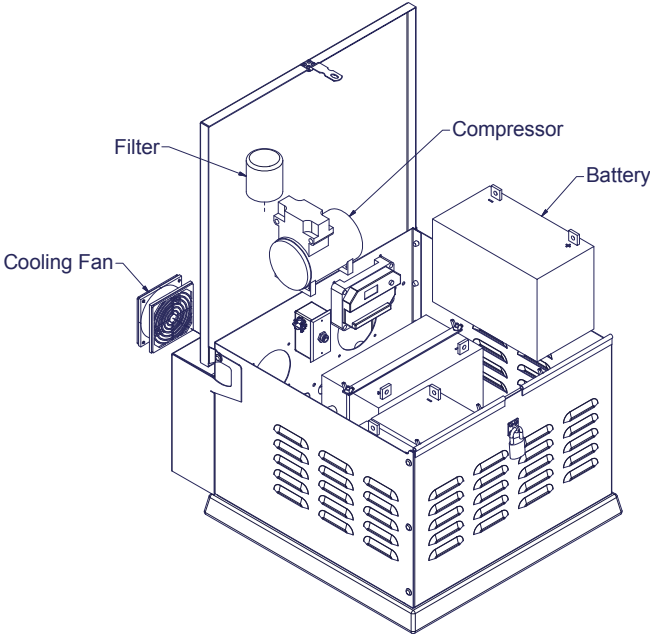
**NOTE:** Complete maintenance and replacement instructions are included in each kit.

## MAINTENANCE & TROUBLESHOOTING

Under normal conditions, an Air Filter change is required after approximately 3 months for SolarAir 1 Ultra (Air Filter # 940569) and every 12 months for SolarAir 2 Ultra (Air Filter # 940017). It will be necessary to replace the Air Filter more often if dusty conditions exist. The Outdoor Enclosure air inlets and discharge ventilation holes need to be kept clean and free of debris and clear of weed and plant growth. If the circulation of air is prevented by debris, the compressor will overheat and reduce the life of the compressor.

**CAUTION:** Before performing any maintenance and troubleshooting, disconnect power from system. All maintenance and troubleshooting should be performed by a qualified electrician or serviceman.

# MAINTENANCE & TROUBLESHOOTING (CONT.)



		COMPRESSOR	FILTER	COOLING FAN	MAINTENANCE KIT
Solar Air 1 Ultra	24V	(1) 940562	(1) 940569	(1) 940563	(1) 940570
Solar Air 2 Ultra	24V	(1) 940564	(1) 940017	(1) 940563	(1) 940571

## PRODUCT DAMAGED IN DELIVERY

The Solar AquaAir® Ultra Diffused Air aeration system was properly packed and accepted by the freight carrier for shipment. It is therefore their responsibility to deliver the system in perfect condition.

## APPARENT DAMAGE OR LOSS

When you receive your **AquaMaster®** unit, closely examine the package and inspect materials for any signs of external or internal damage it may have sustained en route. If there is apparent damage save the original shipping carton and the packing material. If upon delivery the equipment or containers indicate **DAMAGE IN TRANSIT**, such goods should be refused or not accepted until the transportation company's agent has noted such on the freight bill. A copy of such bill will be given to you, noting the nature and extent of the damage. If any part of shipment is **LOST IN TRANSIT**, have shortage noted on freight bill by agent.

## CONCEALED DAMAGE

If damage is discovered, that was not apparent upon delivery, notify the Transportation Company immediately to inspect damaged equipment. The inspector will be required to provide a "CONCEALED DAMAGE" report.

Inspections must be requested within 15 days of delivery. Do not move damaged goods from original point of delivery. Retain all original packing/containers for inspection. File a "FULL VALUE REPLACEMENT" claim against the Transportation Company.

## PRODUCT WARRANTY

All **AquaMaster®** Solar AquaAir® Ultra Diffused Air Aeration Systems have a Limited Lifetime Warranty on the enclosure, 15 years on the tubing, 5 year parts and labor on the diffuser assembly, 3 year parts and labor on compressor and cooling fan, 5 year parts and labor on the solar panel and all other electrical components and batteries have a 1 year parts and labor warranty. Vanes & Pistons are considered "Wear Items" and are not covered under the factory warranty, consult factory for assistance.

Warranty is in effect from the date of shipment, when given normal and proper usage as determined by the seller upon examination, and when owned by the original user. The Customer is responsible for all shipping costs of any materials for warranty inspection back to **AquaMaster®**. After inspection, if product shows manufacturing defect, **AquaMaster®** will replace or repair it at no cost to the customer. Should inspection indicate non-warranty failure (incorrect voltage, faulty installation procedures, vandalism, customer negligence, etc.) warranty will be void.

**AquaMaster®** reserves the right to change this information without notice, and makes no warranty, express or implied, with respect to this information. **AquaMaster®** shall not be liable for any loss or damage, including consequential or special damages, resulting from the use of this information, even if **AquaMaster's®** negligence or other fault causes loss or damage.

The warranty period for all warranty work is equal to the remaining time period of the original new equipment warranty. Warranty claims are based on the date you notify your representative or **AquaMaster®** at 800-693-3144 or 920-693-3121. All claims must be made to **AquaMaster®** Fountains and Aerators or an Authorized Distributor.









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