



# AQUASUN LED HO

AQUARIUM FIXTURE

## INSTRUCTIONS



ITEM#'s AL-H018,  
AL-H024, AL-H036 & AL-H048

Congratulations on your purchase of Zoo Med's **AQUASUN LED HO** Aquarium Light Fixture! The following instructions will assist you with the proper set-up and operation of this light fixture. Please read the following instructions carefully. If you have any questions regarding these instructions or the proper use of this item, please contact our customer service department at [zoomed@zoomed.com](mailto:zoomed@zoomed.com) or by calling (888) 496-6633 (US and Canada only). Customers in other countries, please call (805) 542-9988.

### FEATURES:

- **LED HO:** High output white LEDs = 50% brighter than T5 HO fluorescent hoods!
- **Aluminum housing (not plastic)** for better heat transfer = longer LED life.
- **Modular design:** Made with replaceable LED modules & quick disconnects!
- **Hang it!** Stainless steel "aircraft cable" suspension kit included.
- **Shimmer effect:** Bright white light produces shimmer, just like in nature.
- **Long life:** 20,000 hours lifetime rating.
- **Nighttime mode:** Includes six blue LEDs for "Lunar Effect".

### IMPORTANT SAFETY NOTICE!

To reduce the risk of fire, injury, or electric shock, read and follow these instructions prior to operating this light fixture. Save these instructions for future reference.

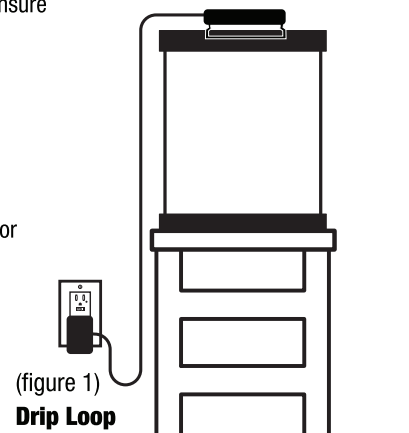
### SAFETY INSTRUCTIONS:

- Caution must be taken when using electrical appliances near water. To reduce the risk of **electric shock**, be sure that the lamp fixture is unplugged during any of the following situations:
  - Unplug when installing the light fixture on or over your aquarium.
  - Unplug when changing or replacing the light modules, or when cleaning the light fixture.
  - Unplug when performing aquarium maintenance.
  - Unplug before placing your hand(s) in the water of the aquarium. Be sure that your hands are completely dry before plugging the light fixture into an appropriate electrical outlet.
  - Unplug if the light fixture comes into direct contact with water, or if any part of the light fixture becomes wet (other than drops of water on the outside of the clear splash guard).
  - Unplug when not in use.
- When unplugging the lamp fixture, grasp the plug to prevent damage to the power cord. Never pull on the power cord to unplug the lamp fixture.
- **DO NOT** exceed electrical rating. Lamps must be of the correct wattage as noted on the product packaging. If you are unsure about which lamp to use, contact our customer service department for assistance at the phone number listed above.
- **DO NOT** splice, repair, or modify the power cord. Inspect the power cord periodically for damage.
- For indoor use only.
- For use with aquariums only.
- This light fixture is intended for use over aquariums having a glass or plastic cover for safety reasons. To prevent injury or electric shock **DO NOT** use over open water.
- Keep children and pets (other than your aquarium inhabitants) away from fixture.
- **DO NOT** alter or modify this product. Contact an electrician if you are unsure about the electrical connection.

**DRIP LOOP:** This lamp fixture must be used near a grounded receptacle with a "drip loop" (see figure 1). The drip loop will prevent water from running along the power cord and getting the plug or wall receptacle wet. To create a drip loop, be sure that a portion of the power cord is lower than the level of the wall receptacle as shown in figure 1. If for any reason the plug or wall receptacle gets wet, do not grasp or unplug the power cord until after the power has been switched off at the main fuse or circuit breaker.

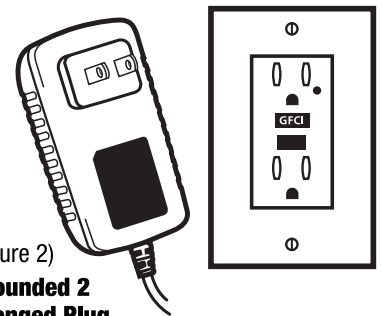
**GROUND FAULT PROTECTION:** To reduce the risk of electric shock, this light fixture must be plugged into a GFCI receptacle (see figure 2). If you are unsure about the electrical supply and connection, contact a qualified licensed electrician.

**SUSPENSION KIT WARNING:** Failure to securely suspend this fixture over an aquarium can result in damage, injury, or electric shock. When suspending this light fixture using the enclosed suspension kit, be sure that the cables are securely attached to hardware that is capable of supporting the weight of the light fixture. If you are unsure about safe hanging methods, contact a qualified licensed contractor to hang this fixture for you. Zoo Med Laboratories, Inc. accepts no liability for damage or injury resulting from improper or unsafe use of the suspension kit.



(figure 1)

**Drip Loop**



(figure 2)

**Grounded 2 Pronged Plug and GFCI Receptacle**

## APPLICATION:

This light fixture can be used with freshwater or saltwater/reef aquariums. See the application chart on the back of the product package for details. The application chart is intended as a general guideline. Following installation of your new light fixture, carefully observe your aquarium and inhabitants to be sure that they acclimate properly to their new light source. If you have any questions, please contact Zoo Med's customer service department.

## INSTALLATION USING SLIDING RAILS:

Check to make sure that the light fixture is unplugged before installing the fixture on the aquarium. To install using the adjustable sliding rails, adjust the width of the rails to match the width of the aquarium, and securely place the fixture on the frame of the aquarium. Each rail should be extended the same amount, and should not be pulled completely from the aluminum housing.



(figure 3) Sliding Rails

## SUSPENSION KIT:

Your new light fixture may be suspended above your aquarium using the enclosed stainless steel aircraft cable suspension kit. **CAUTION: See suspension kit warning section** for important safety information before hanging this light fixture over your aquarium. To attach the aircraft cables to the light fixture, perform the following steps:

- Remove the plastic cover from the T-nuts located in the slot on the top of the fixture.
- Fully thread the cable fittings onto the T-nuts.
- Secure the cable using appropriate hardware to suspend the fixture (see suspension kit warning under safety instructions).



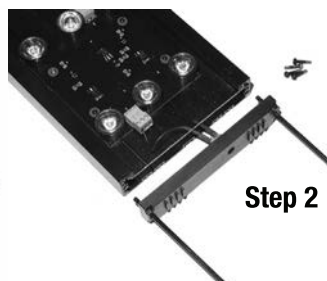
## CHANGING OR REPLACING THE LED MODULES:

The LED modules in your light fixture can be replaced or changed as needed to achieve the desired lighting effect, or at the end of the LED's useful life:

1. Carefully remove one plastic end cover by extending the sliding rails and removing the four screws using a Phillips screwdriver. Gently pull the end cover away, being careful not to strain the wires.
2. Remove the clear splash guard by sliding it out of the grooves.
3. Carefully pull the optics off of the LED module that you are removing. Save them for reinstallation on the new module. **IMPORTANT!** : Reinstall the optics in their original positions.



Step 1



Step 2



Step 3

4. Disconnect the wires from both ends of the LED module and remove the four screws and washers holding it in place. Remove the LED module from the housing.



Step 4a



Step 4b



Step 4c

5. Place the new LED module in the same location and orientation as the original module. The text on the LED module should be in the same orientation as the module that was removed.
6. Reinstall the optics on the new LED module and reassemble by reversing the steps outlined above. If you have questions, please contact Zoo Med's customer service department.

## WARRANTY:

Zoo Med Laboratories, Inc. (Zoo Med) warrants each AQUASUN LED HO Fixture to be free of defects in material and workmanship under normal use and service for one year from the date of purchase. The obligation under this warranty is limited to the repair or replacement, at Zoo Med's discretion, of the product or any part thereof, when the product is returned to Zoo Med, freight prepaid. No claim shall be allowed under this warranty if, in the opinion of Zoo Med, the AQUASUN LED HO Fixture has been subject to accident or improper usage, including but not limited to: water damage, improper storage, accidental dropping, etc. This warranty is in lieu of all other warranties and representations expressed or implied. Please include your receipt, full name, address, phone number, and email address along with a note explaining failure when sending any product back to Zoo Med. Please allow 4 to 6 weeks for repair or replacement.

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