



Aquarium Heater
Instruction Guide



IMPORTANT SAFETY INSTRUCTIONS

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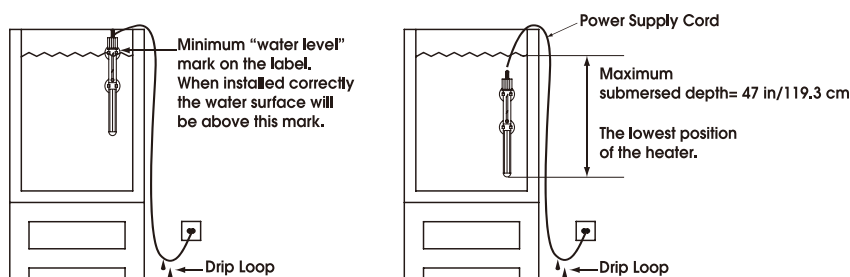
WARNING:

To guard against injury, basic safety precautions must be observed, including the following:

READ AND FOLLOW ALL OF THE SAFETY INSTRUCTIONS AND NOTICES ON THE APPLIANCE.

DANGER: To avoid possible electric shock, special care should be taken since water is employed in the use of aquariums and pond equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service, or discard the appliance.

- If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source.
- Carefully examine the aquarium heater after installation. It should not be plugged in if there is water on parts not intended to be wet.
- Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning or it has been dropped or damaged in any manner.



- To avoid the possibility of the appliance plug or outlet getting wet, position aquarium stand and tank to one side of a wall-mounted outlet to prevent water from dripping onto the outlet or plug. A drip loop, shown in the figure above, should be arranged by the user for each cord connecting an aquarium appliance to an outlet. The drip loop is that part of the cord below the level of the outlet or the connector to prevent water from traveling along the cord and coming in contact with the outlet.
- If the plug or outlet does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in the outlet.
- If an extension cord is necessary, a cord with the proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- Close supervision is necessary when any appliance is used by or near children.
- To avoid injury, do not touch heating portion of heater (see fig. 1) Only move the heater after it has cooled and hold it from the ribbed rubber sections on top and bottom.
- Always unplug an appliance from an outlet when not in use, before putting on or taking off parts and before cleaning. Never yank the cord to pull the plug from the outlet. Grasp the plug and pull to disconnect.
- Do not use an appliance for other than the intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
- Make sure an appliance mounted on a tank is securely installed before operating it.
- This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless the plug can be fully inserted. Do not attempt to defeat this safety feature.

SAVE THESE INSTRUCTIONS FOR FUTURE USE

Designed for efficient, reliable and safe heat output. Due to its waterproof design, this heater can be completely submersed in both fresh and salt water.

Caution: Before installing or operating the heater, read and understand all safety instructions and warnings.

SETUP GUIDE:

1. Attach the suction cups to the heater

Unpack the suction cups and install them onto the provided heater clips, then clip them to the heater. One suction cup should be placed towards the top of the heater and another towards the middle. Suction cups should not be placed over the heating portion of the heater. See Figure 1 .

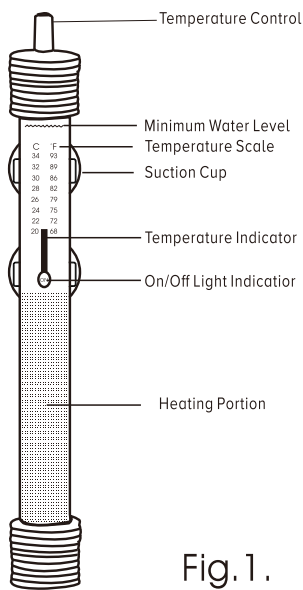


Fig. 1 .

2. Set the heater temperature

Check to ensure the heater is the correct size to maintain the temperature in the size of the aquarium you own (see Aquarium Heater Guide (Table 1)). Turn the temperature dial at the top of the heater until the red bar on the front of the heater lines up with the desired aquarium water temperature. Additional adjustment may be required after the heater is installed. See Figure 1 and 2.

Aquarium Heater Guide:

Aquarium Size	Recommended Heater
Up to 5 Gallon	25 Watt
Up to 15 Gallon	50 Watt
Up to 30 Gallon	100 Watt
Up to 50 Gallon	150 Watt
Up to 65 Gallon	200 Watt
Up to 80 Gallon	300 Watt

Based on a room temperature of 68-72°F, and desired aquarium water temperature increased above room temperature by 5°F.

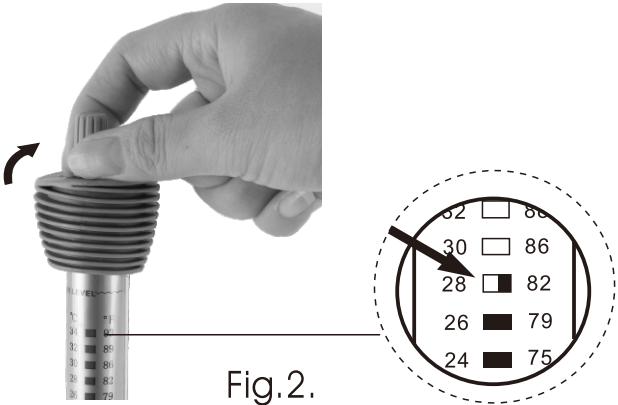


Fig.2.

Table 1 .

3. Place the heater into the aquarium

Install the heater into the aquarium after it has been filled with water. The heater is fully submersible and may be installed either vertically or horizontally, position the heater at a 45 degree angle to get the best heating affect. The heater must be installed so that water in the aquarium is above the minimum water line marked on the heater. The water level must be maintained to stay above this line. See Figure 3 and 4.

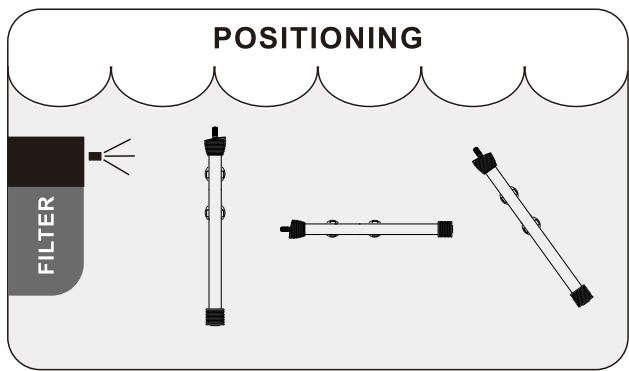


Fig.3.

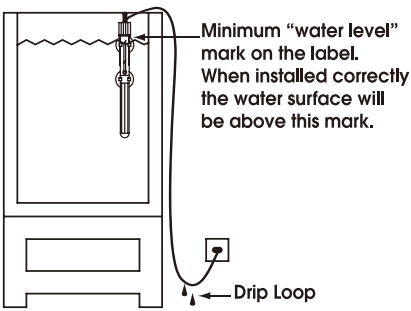


Fig.4.

4. Plug the heater into the electrical outlet

Let the heater sit submerged in the aquarium for 30 minutes before plugging it in, so that it can adjust to the water temperature. Plug the heater into the electrical outlet and it will begin operating. The red operating light will illuminate indicating that the heater is heating, and will turn off when the water has reached the set temperature.

Caution: Do not plug in the heater if:

- 1)Water is below minimum water level mark. (Fig.5)
- 2)If the heater is inversed and expose on air. (Fig.6)

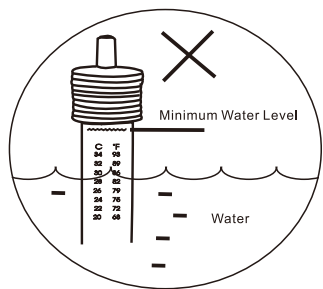


Fig.5

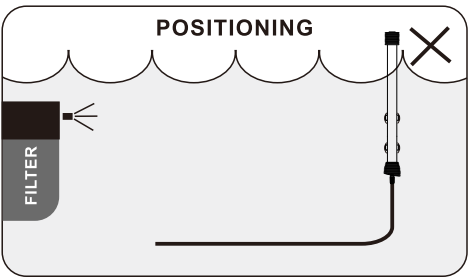


Fig.6

5. Check and adjust the temperature, if necessary

Always use a reliable aquarium thermometer in combination with any heater to double check the water temperature. After the heater has run for 24 hours, check the water temperature using a thermometer. Small adjustments can be made to the heater set point to adjust the water temperature higher or lower if necessary. Once an adjustment is made, wait 24 hours before re-checking the water temperature.

Note: Any adjustments to the aquarium water temperature should be made slowly in small increments to avoid stressing your aquarium inhabitants. Research or consult a sales associate for species specific temperature requirements.

Caution: Make sure the heater is unplugged whenever the aquarium is being serviced, including but not limited to performing water changes.

Caution: Always unplug the heater and allow it to cool for at least 30 minutes before repositioning it, removing it from the aquarium, or exposing it to air. Never expose the heater to air while it is plugged in.

If you have accidentally removed the heater from the aquarium during operation:

- Remove the mains plug and allow the heater to cool down for at least one hour on a heat-resistant base.
- Do not submerge the heater back into the water.
- Do not touch any hot surfaces.

FISH TEMPERATURE GUIDE *

Cold Water Species

These are fish that prefer lower water temperatures



62-74
degrees F

Tropical Species

These are warm water fresh and saltwater fish — the majority of the fish sold/displayed in pet stores



75-84
degrees F

* Research or consult a sales associate for species specific temperature requirements.

TROUBLESHOOTING:

If you experience problems with the heater, please read through the Troubleshooting section below before contacting customer service.

Make sure the heater has been plugged in and operating for at least 24 hours.

If the aquarium water temperature is lower than required (make sure you are checking the water temperature with an accurate thermometer), proceed as follows:

1. Make sure that the heater is plugged in and is receiving power.
2. Make sure the temperature has been set to the correct value.
3. Make sure the heater is being used in an aquarium that is within the suggested range as shown in the Aquarium Heater Guide (Table 1) for its wattage.
4. Make sure the water circulation around the heater is adequate.
5. Make sure that the heater is properly submerged at least to the minimum water line marked on the heater.
6. Make sure the heater is not covered with an excessive amount of algae, calcium deposit, or lime scale. Unplug the heater, allow it to cool for 30 minutes, and clean it if necessary.

If the aquarium water temperature is higher than required (make sure you are checking the water temperature with an accurate thermometer), proceed as follows:

1. Make sure the temperature has been set to the correct value.
2. Make sure the aquarium is filled to the proper level. If the water volume in the aquarium is low so that it no longer falls within the suggested range shown in the Aquarium Heater Guide, add water immediately.

WARRANTY:

This product has a warranty of 12 months under the normal use.

warranty void if the glass breaks, misuse by the user or any modification.

No liability is assumed with respect to loss or damage to livestock or personal property irrespective of the cause thereof.



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