



# TRUE TEMP



**DIGITAL HEATER CONTROLLER**

**TT-1000**

TRANSWORLD AQUATIC ENTERPRISES INC.

## WARNING

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

## READ ALL SAFETY INSTRUCTIONS BEFORE USE.

## DANGER

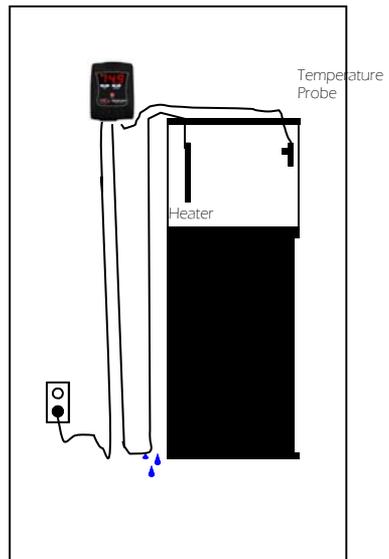
To avoid possible electric shock, special care should be taken since water is employed around the use of this product. For each of the following situations, do not attempt to repair yourself: return the appliance to an authorized service facility for service or discard the appliance.

A. If the appliance shows any sign of abnormal behavior, immediately unplug from the power source.

B. Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.

C. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or if it is dropped or damaged in any manner.

D. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop", shown in the Figure at the right should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle or the connector if an extension cord is used, to prevent water travel along the cord and coming in contact with the receptacle. If the plug or the receptacle do get wet, DON'T unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the appliance. Then unplug and examine for the presence of water in the receptacle.



## **TRUETEMP Important Safety Instructions**

- E. Close supervision is necessary when any appliance is used by or near children.
- F. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, and etc.
- G. Always unplug an appliance from the outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank the cord to pull plug from the outlet. Grasp the plug and pull to disconnect.
- H. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- I. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
- J. Make sure an appliance mounted on a tank is securely installed before operating it.
- K. Read and observe all the important notices on the appliance.
- L. This Appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.
- M. If an extension cord is necessary, a cord with a 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.

***SAVE THESE INSTRUCTIONS***

# **TRUETEMP** Important Safety Instructions

## **CLEANING**

It is important to keep this appliance clean. Always unplug the appliance before performing maintenance or cleaning of the exterior of this pump. Wipe exposed surfaces carefully with a damp terrycloth to remove any dust or mineral deposits which may collect over time. Make sure hands are completely dry before re-plugging into an electrical outlet.

## **SERVICING**

In order to assure proper electrical connections and polarity, replacement parts and servicing should be performed only by a qualified electrician.

## **OPERATION**

Please carefully read the entire "Owner's Manual" for proper operation procedures before proceeding with turning on this appliance and adding livestock such as fish, corals, and invertebrates.

***SAVE THESE INSTRUCTIONS***

# TRUE TEMP Identification

## IDENTIFICATION

### FRONT VIEW

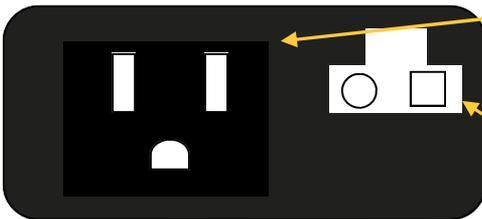


**A** LED TEMPERATURE DISPLAY

**B** UP / DOWN PUSH BUTTONS

**C** HEATING INDICATOR

### BOTTOM VIEW



**E** 3 PRONG HEATER RECEPTACLE

**D** Temperature Probe Receptacle



## **TRUE TEMP—Digital Heater Controller**

Thank you for purchasing the TRUE TEMP digital heater controller, the most accurate and precise controller in the aquarium industry. The all new TRUE TEMP boasts amazing +/- 0.5 F accuracy, a calibrating setting, smart memory chip, LED heating indicator, and a large constant LED display of the current temperature.

Maintaining the correct temperature for tropical fish may be the single most important factor for a successful aquarium.

Since fish do not have the ability to regulate their own body temperature, it is crucial that we provide consistent water temperatures with minimal fluctuations.

Majority of fish cannot cope with the stress from constant temperature fluctuations, which leads to a compromised immune system. This increases the probability of avoidable diseases, parasites, and bacterial infections.

## **100 % DIGITAL OPERATION**

Don't be fooled, some controllers still incorporate analog dials and knobs without the precision accuracy of TRUE digital controllers. Our advanced microprocessor constantly reads and displays the correct temperature with a large LED display. Easy push buttons make setting your desired temperature simple and easy.

An LED heating indicator visually displays when heater is in operation mode.

## **COMPATIBILITY**

Plug any heater up to 1000 watt maximum load into the controller with no issues. The TRUE TEMP incorporates a 3 prong receptacle for virtually any heater plug. This instantly grants a temperature display range between 0-99F and a temperature set point range between 32-99F.

## **CROSS REFERENCE**

Have you ever noticed that majority of heaters cannot be calibrated. Often times, errors do occur during the calibration process. The ability to cross reference ensures your temperature is accurate and always correct.

## **SMART MEMORY CHIP**

An integrated smart memory chip will restore the previous temperature set point and calibration to the last stored setting once the power returns after a failure. This alleviates having to manually reset settings forever.

## **REMOTE TEMPERATURE PROBE**

Most heaters have an integrated temperature probe within the same heating element. This can lead to false readings and premature ON/OFF cycles. The TRUE TEMP digital controller is equipped with a remote quick disconnect temperature probe that can be placed up to 5 feet away from the heating element for a comprehensive temperature measurement of the total volume of water. Quick disconnect temperature probe grants easy replacement without the need to replace the entire controller in the event it fails.

## **SPECIFICATIONS**

Item Description: TRUE TEMP—Digital Heater Controller

Item No: TT-1000

Temperature Range: 0-99.9 F

Temperature Set Point: 32-95 F

Accuracy: +/- 0.5 F

Cycle Point: +/- 1 F

Max Load: up to 1000 Watt Capacity

# TRUE TEMP Installation

**Caution: Do Not plug into electrical power source until heater is connected and submerged in water**

## GETTING STARTED

The TRUE TEMP digital heater controller will work with virtually all existing heaters. Please adjust the temperature setting on your heater to 3-5 Fahrenheit degrees higher than your desired set temperature. This will cause the heater to automatically turn on when the controller relays power to activate.

1. Plug in heater into the 3 prong receptacle of the TRUE TEMP digital controller.
2. Place heater into desired location of aquarium.
3. Plug in temperature probe (male) into receptacle
4. Mount temperature probe in aquarium, away from heating element. (Use supplied suction cup)
5. Plug in TRUE TEMP digital controller into an approved 110V-120V

## CREATING A TEMPERATURE SET POINT

1. Press & Hold the UP button until the screen blinks. Once the screen blinks, depress the UP button and adjust to your desired temperature set point by pressing the UP or DOWN buttons accordingly.

## CALIBRATING THE TEMPERATURE

Calibrating the temperature is very important to ensure that the controller matches your aquarium's current temperature.

1. Press and Hold both UP and DOWN buttons simultaneously until the screen blinks, depress the UP and DOWN buttons and adjust to the current water temperature of the water. ( You will need a thermometer as a reference).

## **ERROR READINGS**

The TRUE TEMP digital heater controller contains an advanced micro-processor that will visually alert you when there is a malfunction.

Please see the **Error Readings** below:

LO: The current temperature read out is below 0.0F

H1: The current temperature read out is higher than 99.9F

ER1: Temperature Probe Malfunction/Poor Contact

ER2: Controller Malfunction

## **CUSTOMER SUPPORT**

If you require further support or have questions, please contact us at:

Customer Support: (310) 672-4021

Or email us at [support@jbjlighting.com](mailto:support@jbjlighting.com)

Or visit our website for any updates on your product.

Web Address: [www.jbjlighting.com](http://www.jbjlighting.com)

Please call or email us for any warranty related concerns:

**TransWorld Aquatic Enterprises, Inc.**

**3730 W. Century Blvd # 3**

**Inglewood, CA 90303**

**Note:** TRUE TEMP digital heater controllers are NOT waterproof. Please place in a moisture free environment which is well ventilated.