



**TRUE
TEMP**



TITANIUM HEATING SYSTEM

Professional Series

TRANSWORLD AQUATIC ENTERPRISES INC.

TRUTEMP TITANIUM Important Safety Instructions

WARNING

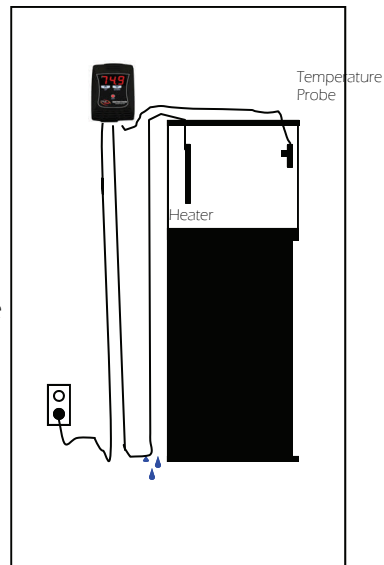
To guard against injury, basic safety precautions should be observed, including the following:

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 TITANIUM 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 TITANIUM 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

TRUETEMP TITANIUM Identification

IDENTIFICATION

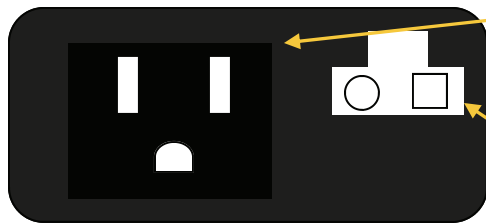
CONTROLLER



- A** LED TEMPERATURE DISPLAY
- B** UP / DOWN PUSH BUTTONS
- C** HEATING INDICATOR

Digital Controller
Item No: TT-1000

BOTTOM VIEW

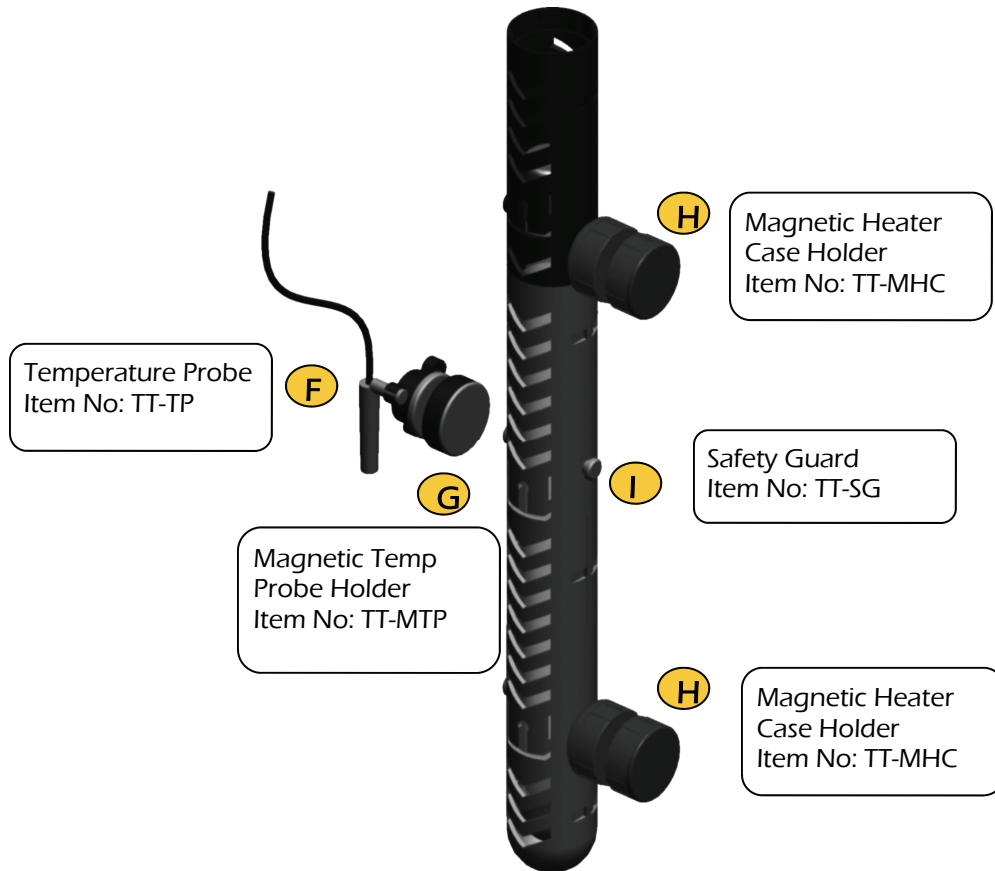


- D** 3 PRONG HEATER RECEPTACLE
- E** Temperature Probe Receptacle

TRUETEMP TITANIUM Identification

IDENTIFICATION

HEATING ELEMENT



TRUETEMP TITANIUM—HEATING SYSTEM

Thank you for purchasing the TRUE TEMP digital heater controller and titanium heating system. The TRUE TEMP is the most complete heating system to date with the most advanced features that set it apart as the leading heater for professional hobbyists.

Our digital microprocessor boasts amazing +/- 0.5 F accuracy, a calibration setting, indestructible titanium heating element with thermal shut off, smart memory chip, LED heating indicator, magnetic heater/probe holders, safety guard, remote temperature probe, 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 to a tenth of a degree with a large LED display. Easy push buttons make setting your desired temperature simple and easy.



TITANIUM

The perfect submersible element for fresh or saltwater aquaria. Virtually indestructible with the benefits of fast heat transfer without any corrosion. Integrated thermal shut off and out of water safety mechanism.



<i>MODEL</i>	<i>WATTAGE</i>	<i>LENGTH X DIAMETER</i>	<i>POWER CORD</i>	<i>TANK SIZE</i>
T3-150	150 WATT	9.5" X 1.5"	6 FEET	30 -50 G
T3-300	300 WATT	13.1" X 1.5"	6 FEET	60 – 100 G
T3-500	500 WATT	13.1" X 1.5"	6 FEET	100 - 160 G
T3-800	800 WATT	16.7" X 1.5"	6 FEET	160 – 260 G
T3-1000	1000 WATT	16.7" X 1.5"	6 FEET	200 – 300G

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



ADVANCED SAFETY

SAFETY GUARD

All titanium heating elements are securely placed inside our safety guards that protect you and your livestock from the heating core. Our flow thru design grants continuous water contact without interruption.

MAGNETIC HOLDERS

Include innovative magnetic heater and temperature probe holders that replace outdated and unreliable rubber suction cups that constantly lose their hold.

Easily place your heater vertically, horizontally, or at any angle you please with long lasting stability.

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.

SPECIFICATIONS

Item Description: TRUETEMP TITANIUM – Heating System

Wattage: 150, 300, 500, 800, & 1000 Watt

Heating Element: Titanium

Cord Length: 6 ft

Temperature Range: 0.-99.9F

Temperature Set Point: 32-95F

Accuracy: +/- 0.5F

Cycle Point: +/- 1F

Max Load: Up to 1000 Watt Capacity

Magnetic Heater Holders: 2 sets

Magnetic Temperature Probe Holder: 1 set

Temperature Probe Length: 5 ft

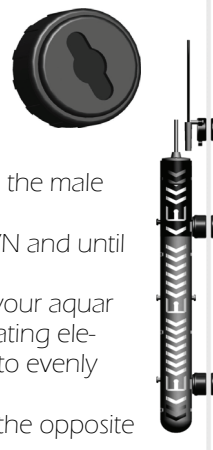


Caution: Do Not plug the controller into electrical power source until heater is connected and submerged in water

Attaching Magnetic Heater Case Holders

Unpack contents of the TRUETEMP TITANIUM heating system and verify that all parts are included.

1. Attach Magnetic Heater Case Holders (2) over the male prongs on heater case.
2. Slide Magnetic Heater Case Holders UP/DOWN and until it securely fastens.
3. Find a location for the heater to be placed in your aquarium or sump. We recommend placing the heating element where there is a constant flow of water to evenly distribute the heat.
4. Connect other half of magnets by placing on the opposite side.



Attaching Magnetic Temp Probe Holder

1. Insert temperature probe into Magnetic Temp Probe Holder . **Note: Insert into the largest hole.**
2. Place magnetic temp probe inside aquarium or sump
3. It is recommended to place the temperature probe away from the heating element to obtain a more accurate temperature of the total volume of water.



Note: For Sump Placement

*Always place the temperature probe in this order:
Water from the tank into sump
Temperature Probe
Heating Element
Water back into the tank*



4. Connect other half of magnet by placing on the opposite side.

TRUETEMP TITANIUM Settings

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

Connecting Heating Element to Controller

1. Plug in heater into the 3 prong receptacle of the TRUE TEMP digital controller.
2. Plug in temperature probe (male) into receptacle
3. Plug in TRUE TEMP digital controller into an approved 110V-120V outlet.

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.

Note: The TRUETEMP TITANIUM controller has a +/-1F cycle point.
Example: If controller is set to 77F, the heater will turn on at 76F and turn off at 78F. This will prevent constant on/off cycles and stays within a 2 degree variance of temperature which is safe for aquarium inhabitants.

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: (877) 374-9981

Or email us at support@jbjlighting.com

Or visit our website for any updates on your product.

Web Address: 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: TRUETEMP digital heater controller is NOT waterproof. Please place in a well ventilated moisture free environment.

