



# HotPoly Silicone Tote Tank / IBC Heaters (TTH Series) Instruction Manual

**BriskHeat**<sup>®</sup>  
Corporation

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Read and understand this manual before installing, operating, or servicing this heater. Failure to understand these instructions could result in an accident causing serious injury or death. Only qualified personnel should install, operate, or service this heater.

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## INTRODUCTION

Thank you for purchasing a BriskHeat<sup>®</sup> TTH HotPoly Tote Tank / IBC Heater. Your heater is designed to provide a long and efficient service life with function, reliability, and safety in mind. For additional information concerning this, or other BriskHeat<sup>®</sup> products, please contact your local BriskHeat<sup>®</sup> distributor or contact us toll free (U.S. / Canada only) at 1-800-848-7673 or 614-294-3376.

## SAFETY ALERT SYMBOL

The symbol above is used to call your attention to instructions concerning your personal safety. It points out important safety precautions. It means “**ATTENTION! Become Alert! Your Personal Safety is involved!**” Read the message that follows and be alert to the possibility of personal injury or death.



Immediate hazards which **WILL** result in severe personal injury or death.



Hazards or unsafe practices that **COULD** result in severe personal injury or death.



Hazards or unsafe practices that **COULD** result in minor personal injury or property damage.

### **SAVE THESE INSTRUCTIONS!**

Additional copies of this manual are available upon request.

## WARRANTY INFORMATION

BriskHeat warrants to the original purchaser of this product for the period of eighteen (18) months from date of shipment or twelve (12) months from date of installation, whichever comes first. BriskHeat's obligation and the exclusive remedy under this warranty shall be limited to the repair or replacement, at BriskHeat's option, of any parts of the product which may prove defective under prescribed use and service following BriskHeat's examination, is determined by BriskHeat to be defective. The complete details of the warranty can be found online at [www.briskheat.com](http://www.briskheat.com) or by contacting us at 1-800-848-7673 (toll free, U.S. / Canada) or 1-614-294-3376 (Worldwide).

## TROUBLESHOOTING GUIDE

Please read this guide prior to contacting BriskHeat<sup>®</sup>. This guide is designed to answer the most commonly asked questions. If you are unable to identify the problem or need additional assistance, please contact your local distributor/ representative or us at **1-800-848-7673, 614-294-3376, or bhtsales1@briskheat.com.**

| PROBLEM                     | SOLUTION(S)  |
|-----------------------------|--|
| Does not heat               | <p>Verify heater is connected to proper voltage. The identification label located on the power cord displays the heater's voltage requirement.</p> <p>Check to see if there is a resistance reading (not an open circuit) in heater using an ohm meter.</p>  |
| Circuit breaker is tripping | <p>Validate that the circuit breaker is capable of handling the amp requirement of heater. The identification label located on the power cord displays the heater's amperage requirement.</p> <p>Examine heater and cord for any damage.</p> <p>Check to see if there is a resistance reading between power leads and the ground lead.</p> |

## IMPORTANT SAFETY INSTRUCTIONS



### **! DANGER**

A person who has not read and understood all operating Instructions is not qualified to operate this product.

### **! DANGER**

- Do not immerse heater in liquid.
- Keep volatile or combustible material away from heater when in use.
- Use heater in approved locations.
- Keep sharp metal objects away from heater.

Failure to observe these warnings may result in electric shock, risk of fire, and personal injury.

### **! WARNING**

#### **End-User Must Comply to the Following:**

- Only qualified personnel are allowed to connect electrical wiring.
- Disconnect all supply power at the source before making any power connections.
- All electrical wiring must follow local electrical codes and highly recommend following NEC Article 427.
- The person who performs the final installation / wiring must be qualified for this work.
- The end-user is responsible for providing a suitable disconnect device.
- The end-user is responsible for providing a suitable over-current protection device. It is highly recommended that a ground-fault circuit breaker be used.

Failure to observe these warnings may result in personal injury or damage to the product and/or property.

### **! CAUTION**

Never handle the heater while it is in operation; always disconnect the heater from the power source and allow to cool prior to handling.

Inspect heater before use.

Never operate heater without a temperature control device.

Do not wrap the heater over itself

If spillage of foreign matter onto heater occurs, disconnect from power source and clean after heater is allowed to cool.

Never operate a heater without an appropriate heat sink (device being heated is considered a heat sink).

Do not operate heater above rated temperature value.

Fasten heater to device using approved methods only.

Do not repair damaged or faulty heaters.

Do not crush or apply severe physical stress on heater or cord assembly.

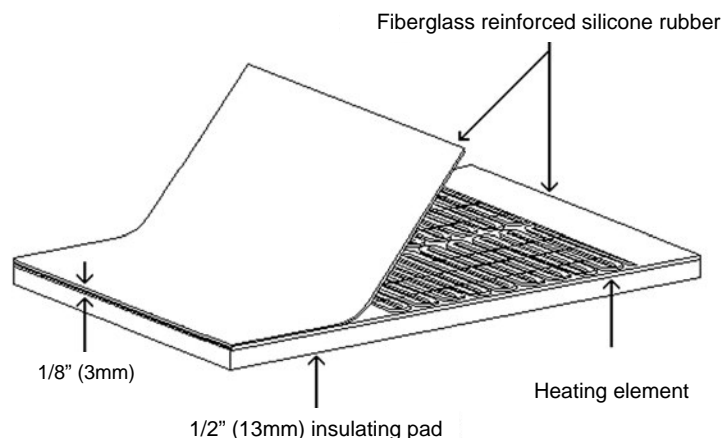
Disconnect heater when not in use.

Failure to observe these warnings may result in personal injury or damage to the product

## SPECIFICATIONS

- Silicone rubber power leads 6 feet (1.8m) long
- Temperature sensing thermocouple laminated between silicone layers with heating element
- Heating element is laminated between two layers of 20 mil fiberglass reinforced silicone rubber
- Silicone rubber density of 21.7 oz/yd<sup>2</sup> per layer
- 180°F (82°C) maximum exposure temperature on heating surface
- Easy access Type K thermocouple port on side of heater cord
- Heater assembly permanently adhered to 1/2" (13mm) closed cell foam insulating pad.

### Drawing:



### WARNING

Read and understand this entire manual before operating this heater.

### VOLTAGE:

**120VAC; 230VAC**

## PRIOR TO INSTALLATION

1. Check for suspected damage to the heater like rips, punctures, etc.
2. Verify surface to be heated is free from all sharp edges, weld splatter, rust, oil, etc. Surface must be clean prior to installing heater.
3. Confirm voltage / wattage rating of heater is appropriate for power supply device or temperature controller. The heater is designed to work at a specific voltage to heat properly. For additional information, contact your local distributor or BriskHeat<sup>®</sup> direct.

## INSTALLATION

### STEP 1

Remove the polyurethane bottle from the cage or pallet and remove any cardboard and/or paper insulation.

### STEP 2

Place the heater in the bottom of the cage with the black (insulation) side down, and the orange (heater) side up (Figure 1). Make sure the heater is as far back from the front (nozzle side) as possible, and the power cord exits the front of the cage or IBC.

### CAUTION

If there are air gaps between the surface being heated and the heater, hot spots can occur and could result in burnouts due to overheating.

### STEP 3

Place the bottle into the cage on top of the heater, making sure the plug and power cord are outside the cage and not under the heater (Figure 2).

### STEP 4

Fill the bottle with the product.

### STEP 5

\* BriskHeat<sup>®</sup> recommends using TTD series controllers with this product. (Sold separately).

Connect the heater power cord to the TTD controller receptacle, and the sensor plug to the TTD controller sensor jack. BriskHeat<sup>®</sup> TTD series controllers can be suspended from the top rung of the IBC (Figure 3). The TTD digital On/Off thermocouple temperature controller is designed for outdoor use.

### WARNING

Your heater is designed to operate at a specific voltage. Refer to the label on the heater for proper operating voltage and wattage information. Failure to operate the heater at the specified rating could result in overheating of the heater, damage to the surface being heated, or personal injury. Also note that too low of a supply of voltage will result in under heating.

All electrical connections must be made by qualified personnel and in accordance with all applicable codes and regulations.



Figure 1



Figure 2

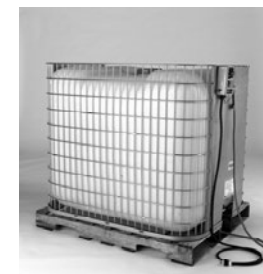


Figure 3