

# BriskHeat<sup>®</sup>

Corporation



***XtremeFLEX<sup>®</sup>***

## **Emergency De-Icer (HSTAT-R Series) Instruction Manual**



Read and understand this material before operating or servicing this heater. Failure to understand how to safely operate these heaters could result in an accident causing serious injury or death. These heaters should only be operated by qualified personnel.

**Table of Contents**

Introduction .....2  
Safety Alert Symbol .....2  
Important Safety Instructions .....3  
Specifications.....4  
How to Install a De-Icer.....4  
De-Icer Operation .....5  
Troubleshooting Guide.....6  
Warranty Information .....7

**INTRODUCTION**

Thank you for purchasing an XtremeFLEX<sup>®</sup> Emergency De-icer from BriskHeat<sup>®</sup>. Your de-icer is designed for de-icing, thawing, freeze protection, and supplement heating.

Wrap the flexible de-icer tape around the desired object you want to heat, set the dial for desired heat.

For additional information concerning this, or other BriskHeat<sup>®</sup> products, please contact BriskHeat<sup>®</sup> at 1-800-848-7673 (toll free, U.S. / Canada) 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.

BriskHeat<sup>®</sup> Corporation. All rights reserved

**IMPORTANT SAFETY INSTRUCTIONS****⚠ DANGER**

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

**Agency Approvals**

73/23/EC (Low Voltage Directive)

**Approvals valid only when** installed in accordance with all applicable instructions, codes, and regulations.

**⚠ DANGER**

- Do not immerse the de-icer in liquid.
- Do not use in rain.
- Keep volatile or combustible material away from the de-icer when in use.
- Use de-icer only in approved locations.
- Keep sharp metal objects away from the de-icer.

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. It is highly recommended that NEC Article 427 is followed.
- Final installation / wiring is to be inspected by the authority who has jurisdiction in the area where the emergency de-icer is installed.
- The end-user is responsible for providing a suitable disconnecting device.
- The end-user is responsible for providing a suitable electrical protection device. It is highly recommended that a ground fault circuit breaker is used.

Failure to observe these warnings may result in personal injury or damage to the de-icer.

**⚠ CAUTION**

- Do not use on plastic surfaces.
- Monitoring of the de-icer is strongly recommended.
- NEVER handle the de-icer while it is in operation; always disconnect the de-icer from the power source and allow to cool prior to handling.
- Inspect de-icer before use.
- Do not use de-icer with torn or worn surfaces.
- Do not wrap the de-icer over itself.
- Do not repair damaged or faulty de-icers.
- Do not crush or apply severe physical stress on de-icer tape or cord assembly.
- Unplug de-icer when not in use.
- Fasten de-icer to device using approved methods only.
- If spillage of foreign matter onto de-icer occurs, disconnect from power source and clean after de-icer has been allowed to cool.
- Never operate a de-icer without an appropriate heat sink (device being heated is considered a heat sink).
- Make sure there is a uniform fit prior to energizing. If there are air gaps between the surface to be heated and the de-icer, hot spots can occur that could result in burnouts due to overheating.
- Do not let the end of tape stay loose in the air. The de-icer heating element must make 100% intimate surface contact with metal surfaces.

Failure to observe these warnings may result in personal injury or damage to the de-icer.

## SPECIFICATIONS

Operating conditions:

Maximum Operating Temperature: 160°F (71°C)

Adjustable Thermostat Control 50-160°F	120 VAC
Power Density: 6.0 watts/in <sup>2</sup>	Moisture and Chemical Resistant
Suitable for Electrically Conductive Surfaces	Includes 6-foot power cord with standard 2 prong plug

## HOW TO INSTALL A DE-ICER

### **WARNING**

Read and understand this entire manual before operating this electric heating tape.

NOTE: DO NOT INSTALL ON PLASTIC SURFACES. USE ON METAL SURFACES ONLY.

#### STEP 1

Remove de-icer from packaging. Visually inspect de-icer. Do not use if torn or damaged.

#### STEP 2

The flexible emergency de-icer can be installed on both a flat and/or curved surface. For a flat surface, lay the de-icer tape onto the surface to be heated. For a curved surface, wrap the heating tape onto the surface to be heated. Attach the de-icer tape to the surface by using an aluminium or fiberglass adhesive tape, rated to a minimum temperature of 170°F.

- **Ensure the de-icer tape is not kinked, twisted, or any portion of the heating tape hanging free from the surface (A).**
- **Do not overlap de-icer tape on itself (B).**
- **Thermostat sensor must be in full contact with object to be heated. Sensor is located underneath temperature controller box (C).**

#### STEP 3

Plug power cord into appropriate electrical power outlet.

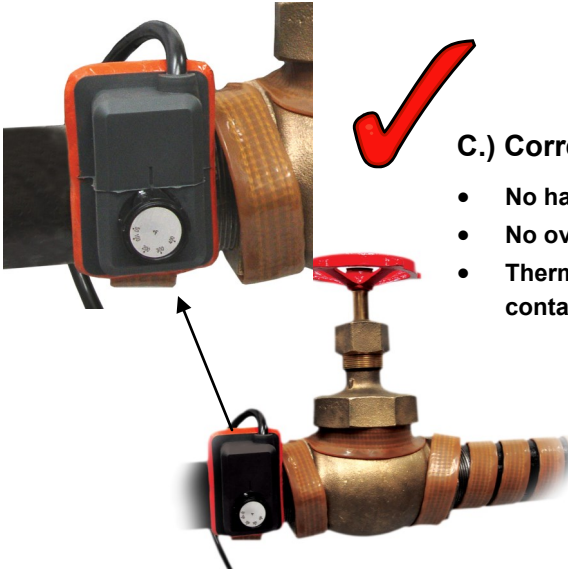
**HOW TO INSTALL A DE-ICER (CONT.)**



**A.) Incorrect Installation:**  
Heating tape hanging free from the surface



**B.) Incorrect Installation:**  
Heating tape overlapped on itself



**C.) Correct Installation**

- No hanging tape from surface
- No overlapping between tapes
- Thermostat sensor in full contact with object

**DE-ICER OPERATION**

Adjust dial to desired setting. Start heating at a lower temperature gradient and gradually increase to desired temperature. For best results, cover heating area and emergency de-icer with 1/2" thick fiberglass insulation or equivalent insulation rated to the appropriate temperature.

**⚠ CAUTION**

Temperature controller dial and enclosure will become very hot after use. Always unplug heater and allow to cool prior to handling.

**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 BriskHeat<sup>®</sup> distributor or contact us toll free (U.S. / Canada only) at 1-800-848-7673 or 614-294-3376 or [bhtsales1@briskheat.com](mailto:bhtsales1@briskheat.com).

PROBLEM	SOLUTION(S)
Does not heat	<p>Verify de-icer is connected to proper voltage.</p> <p>Check to see if there is a resistance reading (not an open circuit) in the de-icer using an ohm meter.</p> <p>Increase the de-icers temperature set-point to increase the difference between the ambient temperature and the de-icer's setting.</p>
Circuit breaker is tripping	<p>Validate that the circuit breaker is capable of handling the amp requirement of de-icer.</p> <p>Examine de-icer tape and cord for any damage.</p>

**WARRANTY INFORMATION**

BriskHeat<sup>®</sup> warrants to the original purchaser for the period of twelve (12) months from date of purchase, BriskHeat<sup>®</sup>'s obligation and the exclusive remedy under this warranty shall be limited to the repair or replacement, at BriskHeat<sup>®</sup>'s option, of any parts of the product which may prove defective under prescribed use and service following BriskHeat<sup>®</sup>'s examination, is determined by BriskHeat<sup>®</sup> to be defective. The complete details of the warranty can be found online at

[www.briskheat.com/t-warranty.aspx](http://www.briskheat.com/t-warranty.aspx) or by contacting us at 1-800-848-7673 (toll free, U.S. / Canada) or 614-294-3376 (Worldwide).

**BriskHeat**<sup>®</sup>  
C o r p o r a t i o n

1055 Gibbard Ave, Columbus, OH 43201

Toll Free: 800-848-7673

Phone: 614-294-3376

Fax: 614-294-3807

Email: [bhtsales1@briskheat.com](mailto:bhtsales1@briskheat.com)