

⚠ WARNING

Read and understand this entire manual before operating this electric heater.

PRIOR TO INSTALLATION

1. Check for suspected damage to the heating blanket like rips, punctures, etc.
2. Verify surface to be heated is free from all sharp edges, weld splatter, corrosion, oil, etc. Surface must be clean prior to applying heating blanket.
3. Check that the desired placement of the blanket will not cause damage to the blanket through impact shock, vibration, ambient temperature, or by neighboring moving parts.
4. 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®.

APPLYING YOUR COMPOSITE CURING BLANKET TO A SURFACE

Your Composite Heat Curing Blanket can be used to heat both flat and curved surfaces. However, do not allow your heater to exceed the maximum bending radius. To determine the maximum bending radius of your heater, slowly bend the heater until it begins to crease or fold. The point prior to creasing is the bend radius. BriskHeat® Composite Heat Curing Blankets are more flexible when bent in the same direction as the heating element.

Series	Maximum Bend Radius	Maximum Temperature
SRL5	3.00" (76mm)	450°F (232°C)
SR	0.25" (6mm)	450°F (232°C)
SRV with vacuum seal	3.00" (76mm)	450°F (232°C)
SRV without vacuum seal	0.25" (6mm)	450°F (232°C)
FGH	1.00" (25mm)	800°F (425°C)
SXH	1.00" (25mm)	1100°F (593°C)

Your heater can be attached to a surface either by:

- Typical vacuum bagging
- Mechanical clamping devices that do not cause damage to the heater
- Built-in vacuum ports if applicable (see Installation of Composite Heating Curing Blankets)

Installation regardless of product series

1. For proper temperature control, place the thermocouples, RTDs, or other sensing devices so they are sandwiched between the heater and the surface to be cured. An ACR™ II Hot Bonder Controller has up to 10 thermocouple inputs per zone.
2. Ensure heater is in contact with the surface to be heated. If air gaps are present, heat transfer will decrease and there is a potential to over-heat the heating blanket.

⚠ CAUTION

Do not wrap the heater over itself or allow it to overlap a second heater.

Installation of SRV series Composite Heat Curing Blankets with EASYSeal™ Vacuum Technology:

If your Composite Heat Curing Blanket has built-in quick-connect vacuum ports, it is designed to act as both the heater and vacuum bag. The vacuum source should be attached to one of the built-in vacuum ports. The second vacuum port is designed to connect to the VACUUM MONITOR on a BriskHeat® ACR™ II Hot Bonder. These heaters have an additional unheated area along all four edges. This area is 3.00" (76.2mm) wide along the edge with the vacuum port and 1.50" (38.1mm) wide along all other edges. These blankets come in two types, with or without a built-in vacuum seal.

WITH built-in vacuum seal:

The Composite Heat Curing Blanket should be placed over the working area with the vacuum seal in contact with the working surface. Make sure that there aren't any foreign objects between the vacuum seal and the working surface. To ensure proper operation the working surface must be smooth and free of cracks. Use tacky tape for running thermocouple wires through the seal.

WITHOUT built-in vacuum seal:

The unheated edge is intended for use as the vacuum sealing area. A rim of vacuum sealing tape must be placed around the perimeter of the working area. The outer dimensions of the rim should be approximately equal to the outer dimensions of the blanket. The Composite Heat Curing Blanket should be placed over the working area with the unheated edges contacting the vacuum sealing tape. To ensure proper operation, the vacuum sealing tape should not be placed under the heated section of the blanket.

CONNECTING YOUR HEATER TO AN ACR™ HOT BONDER, TEMPERATURE CONTROLLER, OR POWER SOURCE

⚠ CAUTION

The heater must NOT be operated without some form of temperature control.

1. If your heating blanket does not have its own internal temperature control device, it **must** be connected to an external control device. The heater must NOT be operated without some form of temperature control.

⚠ WARNING

- Your heater is designed to operate at a specific voltage $\pm 10\%$. 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 heating blanket, the surface being heated, or personal injury. Also note lower-than-rated voltage will result in under-heating.

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

2. Ensure heater is protected by a properly rated circuit breaker or fuse.
3. Use of a ground fault circuit interrupter (GFCI) is highly recommended and may be required according to local electric code.
4. Insert provided plug into power receptacle of ACR™ Hot Bonder or compatible temperature control device. Reference temperature controller instructions for complete instructions. If your heater does not have a plug, one can be attached.

If your heater does not have a plug:

- Two wires (same color) should be connected to the power source (or temperature control device) directly, through a junction box, or to a connector that is mated to a receptacle connected to the power source. See BriskHeat® product catalog for compatible plug types.
- BriskHeat® Composite Heat Curing Blankets are non-polarized, allowing either wire to be connected to neutral or hot.

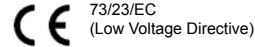
IMPORTANT SAFETY INSTRUCTIONS



⚠ DANGER

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

Agency Approvals



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

⚠ DANGER

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

Failure to observe these dangers will result in electric shock, risk of fire, and severe personal injury or death.

⚠ WARNING

To avoid personal injury:

- 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 recommended following NEC Article 427.
- Final installation / wiring is to be inspected by the authority who has jurisdiction in the area that the heater 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 could result in severe personal injury, death or damage to the heater.

⚠ CAUTION

- Never operate heater without a temperature control device. Failure to use such a device may result in damage to the composite surface, heater failure or personal injury.
- Inspect heater before use.
- Never lift or pull the heater by its lead wires.
- Do not wrap the heater over itself.
- Your heater should never be mounted free standing in air. Always operate the heater with an appropriate heat sink (device being heated is considered a heat sink).
- Do not operate the heater above its rated temperature value.
- Never cut, punch holes in or otherwise modify the heater.
- Never allow foreign substances to bake on the heater. If spillage of foreign matter occurs, disconnect the heater from the power source and allow it to cool. After cooling, clean the heater with a suitable solvent, such as acetone (For Silicone Blankets Only). Do not attempt to clean cloth blankets. Contact Briskheat Immediately for further instructions.
- Fasten heater to device using approved methods only.
- Do not attempt to repair damaged or faulty heaters.
- Do not crush or apply severe physical stress on heater or cord assembly.
- Disconnect heater when not in use.
- Never handle the heater while it is in operation.
- Always disconnect the heater from the power source and allow it to cool prior to removing.

Failure to observe these warnings may result in minor personal injury or damage to the heater.

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INTRODUCTION

Thank you for purchasing a BriskHeat® Composite Heat Curing Blanket. Your heater is designed to work with an ACR™ Hot Bonder or other temperature control device with functionality, reliability, and safety in mind. For additional information concerning this, or other BriskHeat® products, please contact your local BriskHeat® 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 which COULD result in severe personal injury or death



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

SAVE THESE INSTRUCTIONS!

Additional copies of this manual are available upon request.

STORAGE AND HANDLING

- Never carry Composite Heat Curing Blanket by its power cord.
- Store blankets flat, never rolled up for storage.
- Store in a clean, dry location.

CLEANING INSTRUCTIONS

For SRL5, SR, SRV Series (Silicone) Blankets:

- Disconnect the heater from the power source and allow it to cool. After cooling, clean the heater with a suitable solvent, such as acetone.
- Heater can be cleaned using a damp cloth and mild detergent.

For FGH and SXH Series (Cloth) Blankets:

- If spillage of foreign matter occurs, do not attempt to clean or use the blanket. For instructions, Immediately contact your local distributor / representative or Briskheat at **1-800-848-7673, 614-294-3376, or bhtsales1@briskheat.com.**

TROUBLESHOOTING GUIDE

Please read this guide prior to contacting BriskHeat®. 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 BriskHeat at **1-800-848-7673, 614-294-3376, or bhtsales1@briskheat.com.**

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

WARRANTY INFORMATION

BriskHeat® warrants to the original purchaser for the period of thirty (30) months from date of shipment or **twenty-four (24) months** from date of installation, whichever comes first. Contact factory at 1-800-848-7673 (Toll Free, U.S. / Canada) or 614-294-3376 for complete details.

ACR™II Hot Bonder System

✓ Features That You Need

- ▶ Controls the heat and vacuum for on-the-spot composite and metal bond repairs
- ▶ Single or dual zone models
- ▶ Portable, easy-to-carry case holds your heating blankets, vacuum hoses, and accessories
- ▶ Models designed for hazardous / flight line environments



✓ Simple Data Transfer with USB Port

- ▶ Transfer post cure data to your PC. Analyze your data on most-spreadsheet and word processor programs including Microsoft® Excel® and Word®
- ▶ Transfer your programs from one bonder to another
- ▶ Update your bonder with the latest software version for FREE at www.briskheat.com

✓ Easy-To-Use Software on a Full-Color Touchscreen

Check out www.briskheat.com for more details!

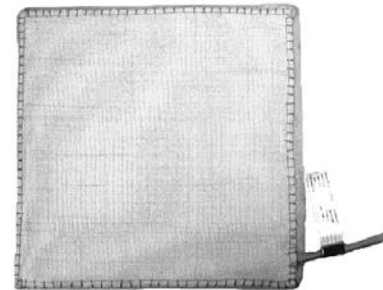
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PN: 10362-08 Rev D

BriskHeat®

Composite Heat Curing Blankets



**(SRL5 , SR, SRV, FGH, SXH,
Custom Series)**

Instruction Manual



Read and understand this material before operating or servicing these heaters. 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.