

HEATING BLANKET

Installation & Operation



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Product warranty

We warrant that this product will be free from defects in materials and workmanship for a period of one year (up to 1600 hours of use) from the date of shipment. If this product proves defective during its warranty period the manufacturer will either repair the defective product without charge for parts and labor, or provide a replacement in exchange for the defective product.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care.

Introduction

Industrial heating blankets are the optimal product when it comes to safely and effectively heating an element to a specific temperature. They make it easy to heat up material including composite, carbon, epoxy prepreg and ensure a safe and uniform temperature distribution on the surface of the material.

Industrial heating blankets are produced either with a controller or with a bimetal fixed thermostat.

Important safety instructions

- Always inspect the blanket and electrical connections before use.
- Place the blanket on the material to be heated before connecting it.
- Only use for surfaces as large as or larger than the heating blanket (The whole blanket must be touching the surface).
- The red dot on the blanket indicates the location of the thermostat. If this part is not in contact with the material being heated, the blanket will overheat. We recommend using tape to fasten the blanket.
- Do not overlap the blanket with itself or other heating blankets.
- Do not cover the controller while in use.
- Never handle while in operation.
- Do not step or walk on the blanket.
- Always disconnect the blanket and let it cool before handling.
- Do not fold the blanket when storing. Roll or leave unfolded instead as shown in the instructions.
- Never immerse the heating blanket into liquids.
- Do not try to repair damaged or faulty heating blankets. All repairs must be done by the manufacturer.
- Do not make cuts in the blanket and keep sharp objects away from it.
- The heating blanket should never be left unattended while in operation.
- Disconnect the heating blanket when not in use.
- When linking several heating blankets, the total power cannot exceed 2000W.

Warning!!



Read and understand this guide before installing and operating the product. Failure to understand instructions and safety precautions could result in injury, fire, damage to the heating blanket and/or damage to the material being heated. Heaters should only be operated by qualified personnel.

Installation

Unpacking and inspection

Unpack the heating blanket and place it on a clean and dry surface. Perform an inspection to look for transport damage. Do not use the blanket if it is damaged!

Install power plug on cable

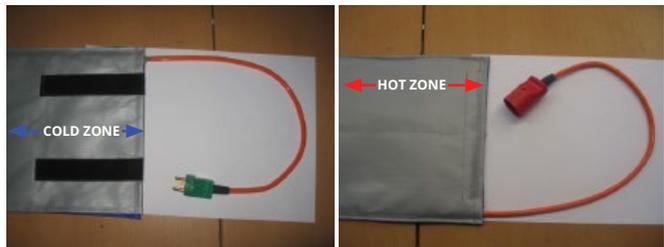
Always use a 3-pin grounded plug for the heating blanket. The cable consists of three color coded conductors:

- Brown wire - Connect to Line 1.
- Blue wire - Connect to Line 2.
- Green/Yellow wire - Connect to Earth Ground.

The power connection must be adequate rated to support the voltage and power of the heating blanket. Follow all local electrical codes for proper connections.

Do not shorten the power cable. The blanket is produced with a cable length that conforms with safety regulations.

If you mount the power connector yourself always place the male connector in the cold zone end of the heating blanket, and female plug in the hot zone end.



Linking heating blankets

Some heating blankets can be linked in parallel via built-in daisy chaining connections. It is important to make sure that linked blankets do not exceed 2000W in total.

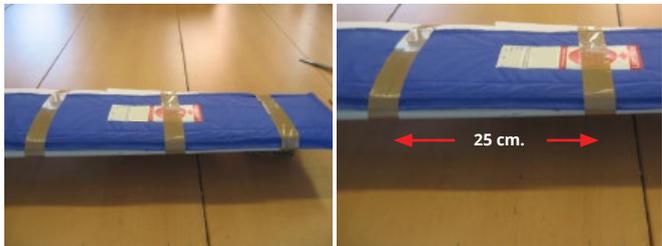
Operation

1. Check that the heating blanket is intact and that there is no visible damage to the blanket or to the power connection.
2. Make sure that the material that is to be heated can withstand the desired temperature.
3. Place the heating blanket on the material.
4. Make sure that the heating blanket is not folded or overlapping itself or other heating blankets and that the controller is not covered.
5. Make sure that the part of the blanket with the thermostat is touching the material to be heated, so the thermostat can measure the temperature correctly. The thermostat is marked by a red circle on the label.
6. Adjust the controller to desired temperature (If the blanket is without a controller, the temperature threshold is fixed).
7. Connect power cable to supply and turn on the power.

Only the area with velcro (cold zone) can overlap. Overlapping hot zones can cause fire.



The heat blanket must be in contact with the surface to be heated. In this example it is fastened with tape, 25 cm between strips.



Make sure the thermostat (red circle on the label) is in contact with the surface. The best way is with tape or straps as shown.



Operating the thermostats

Fixed thermostat (bi-metal)

If the heating blanket is with a bi-metal thermostat, it cannot be regulated. See the label on the heating blanket for the temperature threshold.

Digital controller (DigiTherm)



Adjust to the desired temperature by pressing the up and down arrows. When the desired temperature is shown on the display press the OK button.

A small dot in the lower right corner of the display will light up when the temperature is below the threshold temperature and the heating blanket is heating up.

External digital controller (External DigiTherm)



External DigiTherm controllers are controlled just like the DigiTherm controller.

Please connect the heating blanket to the controller before connecting power to the controller.

No controller

Heating blankets without a controller (on the heating blanket or externally) are regulated by a bi-metal thermostat and are not adjustable.

Handling after use

- Disconnect the power and let the heating blanket cool down before handling.
- Do not roll or fold the blanket while it is still hot.
- When the blanket has cooled down it can be cleaned with a damp piece of cloth.
- When disconnecting the plug, please pull the plug and not the cable.



Storing

Please do not fold and stack the blankets when not in use.

Either:

- Stack the blankets unfolded.
- Roll up the blankets with the underside out (label and controller on the inside), as shown to the right. Roll up the cable and put it inside the rolled up blanket. Secure with tape or straps if necessary. The blankets can then be stacked.



Questions and repairs

If you have any problems with the blanket please refer to this manual or contact the seller for more information.

Do not try to repair the blanket yourself! Contact your seller for all repairs or changes to the heating blankets.

Related products

Heating blanket standard sizes:

- 1000x500mm
- 2000x500mm
- 3000x500mm
- 600x600mm
- 1000x1000mm
- 1300x1300mm
- 2000x1000mm
- 700x700x1000mm (triangular)
- 1200x800mm
- 1000x300mm
- 1500x300mm
- 3800x290mm

Other heating blanket options:

- 110V or 230V.
- Digital controller, external digital controller or fixed thermostat.
- 0-90°C, or 0-120°C.
- Daisy chaining blankets.

Please contact us for other sizes or solutions.

IBC heaters



Insulation jackets for barrels and IBCs



Drum heaters for food stuff



Drum heaters



Silicone drum heaters

