OPERATING MANUAL

Industrial heating blanket

Installation, operation, controller and storage

This manual applies to insulated industrial heating blankets with digital controller, external digital controller or fixed bimetal thermostat, including items DD-KHLM-08-9030DT, DD-KHLM-08-9030HTDT and DD-KHLM-20-2860, unless otherwise stated.



Introduction

Industrial heating blankets heat components safely and precisely to a defined temperature – e.g. for curing composite, carbon, epoxy and prepreg – and ensure uniform temperature distribution across the surface. They are made with a controller or with a fixed bimetal thermostat.

Warning! Read and understand this manual before installation and operation. Failure to do so may result in injury, fire and damage to the blanket and the material. Operation by qualified personnel only.

Important safety instructions

- Inspect the blanket and electrical connections before every use.
- Place the blanket on the material before connecting it.
- Only use on surfaces at least as large as the blanket – the whole blanket must be in contact.
- The red dot on the label marks the thermostat/sensor. If this area is not in contact with the material, the blanket will overheat. Fix it with tape or straps.
- Do not overlap the blanket with itself or other blankets; do not cover the controller.
- Do not handle during operation, do not step on it, do not cut it and keep sharp objects away.
- Disconnect and let it cool before handling; disconnect when not in use.
- Do not fold – roll or store flat. Never immerse in liquids.
- Do not repair faulty blankets yourself; repairs via your supplier only.
- Never leave the blanket unattended during operation.
- When linking several blankets, the total power must not exceed 2,000 W.

Installation

Unpacking and inspection

Place the blanket on a clean, dry surface and check for transport damage. Do not use damaged blankets.

Fitting a plug

Always use a 3-pin grounded plug. Brown = line, blue = neutral, green/yellow = earth. The supply must be rated for the blanket's voltage and power; follow local electrical codes. Do not shorten the cable. When fitting connectors yourself, place the male plug at the cold-zone end and the female coupling at the hot-zone end.

Linking blankets

Some blankets can be linked in parallel via built-in connections. The total power of linked blankets must not exceed 2,000 W.

Operation

1. Check the blanket and power connection for visible damage.
2. Ensure the material can withstand the desired temperature.
3. Place the blanket on the material.

4. Make sure the blanket is not folded or overlapping (only the cold zone with hook-and-loop may overlap) and the controller is uncovered.
5. Bring the thermostat area (red circle on the label) into direct contact with the material – ideally with tape or straps, approx. 25 cm between strips.
6. Set the desired temperature on the controller (without a controller the limit is fixed).
7. Connect the power cable and switch on.

Temperature control

Fixed thermostat (bimetal)

Blankets with a bimetal thermostat cannot be adjusted; the temperature limit is shown on the label.

Digital controller

Set the temperature with the arrow keys and confirm with OK. A small dot in the lower right corner of the display lights up while the blanket is heating.

External digital controller

Operated like the built-on controller. Connect the blanket to the controller before powering the controller.





After use and storage

- Disconnect and let the blanket cool; do not roll or fold while hot.
- Once cool, clean with a damp cloth.
- Pull the plug, not the cable, when disconnecting.
- Do not stack folded. Either stack flat or roll with the underside out (label and controller inside), place the cable inside the roll and secure with straps if needed.



Versions

- Standard sizes incl. 600 x 600, 1000 x 500, 1000 x 1000, 1300 x 1300, 2000 x 500, 2000 x 1000, 3000 x 500 mm and triangular 700 x 700 x 1000 mm
- 230 V or 110 V
- Digital controller, external digital controller or fixed bimetal thermostat
- Temperature range 0–90 °C or 0–120 °C, linkable versions
- Special sizes and shapes on request

Questions and repairs

If you have a problem, please refer to this manual first; otherwise contact your supplier. Do not repair or modify blankets yourself – all repairs and changes via your supplier. Declaration of conformity (CE) on request.