

# Operating and Assembly Instructions

## HeatBlanket PHB-1050 / IHB-1050

Document	Operating and Assembly Instructions
Product	PHB-1050 / IHB-1050 / wall drying / flexible heating element
Application	Industrial wall and wood drying
Distributed by	InfraVivo AB, Sallabacken 9, 241 94 Hurva
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**Read these instructions completely before commissioning and keep them available at the place of use.**

## 1. General

These instructions describe the assembly, commissioning, operation, cleaning, maintenance and decommissioning of the HeatBlanket PHB-1050 / IHB-1050. The product is a flexible electric heating element for professional and industrial applications, in particular for wall and wood drying.

The information provided does not replace an application-specific risk assessment. The operator must verify the suitability of the product for the respective application, the substrate, the material to be dried and the ambient conditions.

## 2. Product identification

Feature	Details
Product designation	HeatBlanket PHB-1050 / IHB-1050
Article description	wall drying / flexible heating element
Manufacturer	Digel Sticktech GmbH & Co. KG, Hermann-Burkhardt-Str. 7, 72793 Pfullingen
Distributor:	InfraVivo AB, Sallabacken 9, 241 94 Hurva
Field of application	Professional technical drying; not for use on persons, animals or for medical purposes

## 3. Intended use

The HeatBlanket PHB-1050 / IHB-1050 is intended for the targeted technical heating and drying of suitable materials in industrial and professional use. Permitted applications include in particular:

- Wall drying in dry indoor areas and controlled working environments
- Wood drying and technical material drying after checking material compatibility
- areal heat application on suitable, clean, dry and temperature-resistant surfaces

The product is not intended for general space heating and is not intended for domestic use as a heating mat, electric blanket or comfort heater.

## 4. Misuse

The following uses are not permitted:

- Heating of persons, animals, beds, mattresses, seating surfaces or body parts
- Operation in a folded, kinked, rolled-up or bunched-up state
- Covering with blankets, mattresses, insulating materials, films or other heat-insulating objects
- Operation in potentially explosive areas or in environments with flammable gases, vapours, dusts or chemicals
- Operation outdoors, in wet areas or in areas where moisture can penetrate into electrical connections
- Piercing, cutting, modifying, repairing or shortening the device or the connecting cable

## 5. Safety instructions

**WARNING – electrical voltage:** Operate the device only on a suitable 230 V AC power supply. The mains voltage must match the rating plate. Do not use damaged devices, connecting cables or plugs.

**CAUTION – hot surface:** The surface can reach approx. 65 °C during operation. Allow it to cool down completely before cleaning, transport, disassembly or storage.

**NOTICE – do not cover:** The device must not be covered during operation. Heat build-up can lead to property damage, overheating or fire hazard.

Additional operating rules:

- Operate the device only flat, free of tension and without folds.
- Use the device only if the surface, seams, connecting cable, plug and marking are undamaged.
- Do not crush, kink, drive over or subject the connecting cable to tensile load.
- Keep pointed, sharp-edged or heavy objects away from the device.
- Keep children, uninstructed persons and unauthorised persons away from the area of use.
- Use timers, remote switches or automatic controls only after a safety assessment by the operator.

## 6. Device description

The PHB-1050 / IHB-1050 is a flexible electric heating element with a textile spacer fabric. The heating element emits heat over its entire surface and is intended for technical drying processes. The component contains defined sewn holes to mark or support the mounting position. A total of 12 holes are distributed across the component.

The device has a self-resetting overheating protection. This does not replace the operator's obligation to monitor the specific application and to avoid heat build-up.

## 7. Inspection before commissioning

1. Check the device for visible damage, contamination, moisture and foreign objects.
2. Check the connecting cable and Euro plug for damage.
3. Check the substrate for evenness, cleanliness, dryness, load-bearing capacity and temperature resistance.

4. Check the compatibility of the material to be dried with a surface temperature of approx. 65 °C.
5. Ensure that no flammable materials, insulating materials, films or sensitive surfaces are heated in an uncontrolled manner.

**Initial commissioning:** During initial commissioning, a slight odour may occur briefly. Ensure adequate ventilation.

## 8. Assembly and application

### 8.1 General assembly instructions

Position or mount the HeatBlanket so that it lies flat over its entire surface, without folds, kinks or tension. For vertical applications, the device must be secured against slipping. The fastening must not damage the heating element.

- Do not drive nails, screws, clamps or pointed objects through the heating surface.
- Carry out fastening only at the designated or sewn markings/holes.
- Route the cable outlet free of tension and secure it against tensile load.
- No clamping between two heat-insulating layers.

### 8.2 Wall drying

For wall drying, the wall surface must be accessible while dry, sufficiently load-bearing and free of loose parts. Moisture must not penetrate into electrical connections. Due to protection class IP20, use is only permitted in dry indoor areas.

### 8.3 Wood drying

For wood drying, the type of wood, surface treatment, residual moisture, susceptibility to warping and fire behaviour must be checked in advance. The temperature development on the material must be checked regularly during the first application.

## 9. Operation

1. Position or fasten the device flat or free of tension at the intended location.
2. Ensure that the device is not covered and that heat can be emitted freely.
3. Insert the mains plug into a suitable socket.
4. Carry out visual inspections during operation, especially for new applications or unknown materials.
5. After use, unplug the mains plug and allow the device to cool down.

The device has no power control of its own. Temperature and process control are the responsibility of the operator. External controls may only be used if they are suitable for the electrical load and the overall setup has been assessed for safety.

## 10. Cleaning, care and maintenance

- Unplug the mains plug before every cleaning.
- Clean only when completely cooled down.
- Do not wash, do not immerse in water and do not dry-clean.
- Do not use any corrosive, solvent-based or abrasive cleaning agents.
- Remove dirt dry or slightly moistened. Do not soak the device.
- After exposure to moisture, take the device out of operation and use it again only after complete drying and visual inspection.

Regularly check the device for damage, deformation, discolouration, chafing, damaged seams as well as damage to the connecting cable and plug. Do not continue operating if any abnormalities are found.

## 11. Faults

Problem	Possible cause	Action
Device does not heat up	No mains voltage, plug not inserted, fuse tripped	Check plug, socket, fuse and power supply.
Device switches off or only heats up intermittently	Overheating protection has tripped; heat build-up or unsuitable application possible	Disconnect the device from the mains, allow it to cool down, remove covering/heat build-up, check the application.
Odour, discolouration, smoke or unusual noises	Overheating, contamination, damage or unsuitable substrate	Unplug the mains plug immediately. Do not continue operating the device and contact the manufacturer.
Damaged surface or connecting cable	Mechanical impact, kink, crushing or ageing	Take the device out of operation. Do not carry out any repairs yourself.

If the cause cannot be clearly remedied, take the device out of operation and contact the manufacturer.

**12. Technical data**

Feature	PHB-1050 / IHB-1050
Article / Product	PHB-1050 / IHB-1050 / wall drying / flexible heating element
Construction front / back	Spacer fabric 220 g/m <sup>2</sup> ; 100 % PES; thickness 3.2 mm; not washable; flame-retardant according to FMVSS 302
Rated voltage	230 V AC, 50 Hz
Rated power	250 W +/- 5 %
Surface temperature	approx. 65 °C
Overheating protection	self-resetting 60 °C; M2 60XD; hysteresis D 10 K +/- 2 K; > 100,000 switching cycles per switch
Dimensions	1000 mm x 200 mm x 12 mm
Protection class	IP20
Dielectric strength / insulation resistance	2700 V / 10 GOhm
Connecting cable / mains connection	1.5 m / Euro plug
Special feature	12 defined sewn holes for marking the mounting position

**13. Marking and conformity**

The product must be used in accordance with the rating plate. The EU declaration of conformity and RoHS documentation are kept by the manufacturer. Changes to materials, assemblies, connecting cable, control or operating conditions may require a new technical assessment.

**14. Transport, storage and disposal**

- Store the device dry, clean and without mechanical load.
- Do not kink sharply, crush or store under heavy objects.
- Transport only when completely cooled down.
- Dispose of in accordance with the locally applicable regulations for electrical and electronic equipment.

**15. Customer service**

InfraVivo AB  
Sallabacken 9  
241 94 Hurva  
Tel.: +46 723 069 222  
E-mail: info@infravivo.com