

*ELEKTRA MMV*  
***Heating Mats***





## Operation

### NOTE:



Power supply conductor is not detachable any cannot be replaced. If the conductor becomes damaged, the appliance itself will not continue operation.

The heating mat must be withdrawn from operation altogether.

The appliance may be used by children over 8 years of age and persons with reduced physical, sensory or mental capabilities, or lacking experience or knowledge, providing they are supervised, or have received instruction in safe use of the appliance and understand the hazards. Children must not play with the device. Cleaning and user maintenance must not be carried out by children unless supervised.

From the surface of the mat, **remove** loose snow, ice lumps and any objects or tools which might damage the heating mat or disturb its operation.

The heating mat **must not** be positioned in the vicinity of hot or flammable substances.

The area designated for defreezing **should** be clearly marked with poles or protective tape.

Damaged heating mat **must not** be used or connected to the mains.

## NOTE:



During storing and transport the heating mat should be rolled with the yellow surface facing outwards.

Every application of the heating mat **must** be preceded with a detailed visual inspection and test of the electrical parameters of the appliance. In case more than one heating mat **should** be used, the mats must not overlap or cover one another.

**Do not** use any additional thermal insulation with the heating mat due to existing risk of overheating.

**Do not** let the heating mat come into contact with insulation materials.

**Do not** cover the heating mat while using it.

**Do not** place any sharp-edged tools on the heating mat, which might damage the mat.

**Do not** connect to the mains the heating mats which are folded or rolled.

**Do not** drive or walk on the heating mat.

## Applications

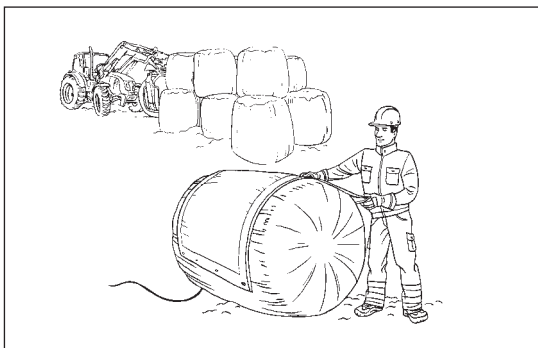
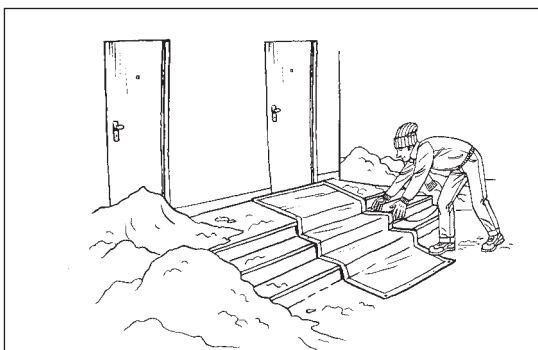
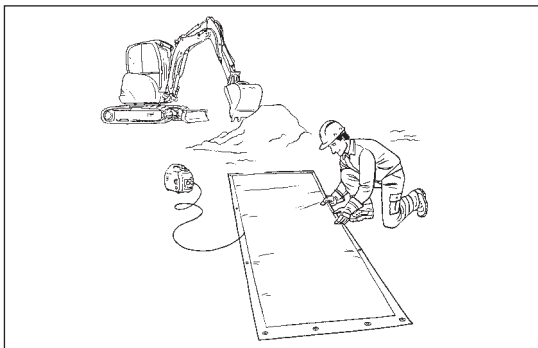
ELEKTRA MMV heating mats are designed for various applications, e.g. defreezing of the ground for building works or farming. The mats:

- facilitate drilling works for filter systems for drinking water as well as for plumbing systems,
- enable continuation of ground building works in winter conditions,
- support plant growth in the soil,
- remove icing from external surfaces such as: passageways, stairs, roof throughs or roof surfaces, technological process lines on external units of fan coils, chillers or heat pumps,
- restore flexibility of cables on spools, facilitate unwinding, enable installation works of power cables or telecom cables,
- defreeze haylage in bales,
- protect water tanks against freezing,
- protect storage tanks dedicated for animal feed/sand/road salt.

The mats are equipped with a power supply conductor with a plug, enabling mains connection through a standard 230V/50Hz electrical socket, as well as a power generator or building switchboard.

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## Switching the appliance ON and OFF

The heating mat starts operation after the plug has been inserted into an electrical socket (230V, 50Hz) equipped with a safety pin.

### Technical data

Power output:	300 W/m <sup>2</sup>
Total output power:	1000 W
Power supply:	230 V, ~50/60 Hz
Length x Width x Thickness:	~3000 x 1000 x 20 mm
Min. installation temperature:	-30°C
Max. operation temperature:	+65°C
Overheating protection:	+80°C
Conduit cables:	1 x 3 m; 3 x 1.5 mm <sup>2</sup> , with hermetic plug IP44
Mat fabric:	PVC mat reinforced with polyester mesh
Thermal insulation:	10 mm
Rated power output tolerance:	+5%, -10%
Protection:	IP67
Certificate of ISO 9001:	IQNET, PCBC
Product mark:	CE

## Maintenance

Disconnect the power supply conductor from the mains before starting the cleaning procedure. Wash the surface with a damp sponge or cloth, adding mild detergent (e.g. washing-up liquid).

Never apply any corrosive or abrasive cleaning agents or any sharp objects – this can cause damage to the mat's surface.

Never paint or varnish the external surfaces.

## Warranty conditions

**ELEKTRA company grants a 2 year-long warranty (from the date of purchase) for the ELEKTRA MMV heating mats.**

1. For the claim to be recognized, the following are required:
  - a. installation must be executed in accordance with this installation manual,
  - b. presentation of the proof of purchase of the heating mat under complaint.
2. The Warranty loses validity if any attempt at repair has been undertaken by an installer unauthorised by the ELEKTRA company.
3. The Warranty does not cover the damages inflicted as a result of:
  - a. mechanical fault,
  - b. incompatible power supply,
  - c. lack of adequate overload and differential protection measures.



4. ELEKTRA company undertakes, as part of warranty, to cover expenses associated solely with replacement or repair of the faulty heating mat under complaint.
5. The Warranty covering the purchased commercial goods does not exclude, limit or suspend other Buyer's rights resulting from the incompatibility of the goods purchased with the agreement of purchase.

**NOTE:**

The warranty claims must be registered accompanied with the proof of purchase, in the place of purchase or the offices of ELEKTRA company.