

INSTALLATION AND OPERATING INSTRUCTIONS

THERMODOM FLOOR HEATING MATS

(model EFF.....)

1) GENERAL, WARNINGS

"carlo" Thermodom floor heating mats are electric heater covers for heating small floor areas. The floor heating elements are not designed for use where animals are kept, and are therefore not permitted to be used as such. They are fixed heaters for dry areas, and are only area heaters (not room heaters). The floor heating elements are 230 V electric heaters. Before being used, the floor heating elements must be inspected for signs of damage and wear. Mechanical damage of any kind (such as extraneous objects inside, cuts, ...) can expose live parts.



Floor heating elements exhibiting wear exceeding 0.5 mm on the upper cover side, cuts, tears, nicks or damage to the connector cable may no longer be used. Defective connector cables can only be replaced by the factory.

Note: "carlo" Thermodom floor heating mats are not protected from overheating. They may therefore not be covered by materials which can cause heat accumulation, such as heavy rugs, furniture, etc. which are impervious to heat. Failure to comply can result in a risk of fire. Unattended use is not permitted. "carlo" Thermodom floor heating mats may not be laid so as to overlap, and may not be used in the immediate vicinity of a bath tub, shower or swimming pool. Do not use them unattended. Do not use them outside.

Children younger than 3 years of age must be kept away unless under supervision at all times. Children between 3 and 8 years of age may only switch the device on and off when under supervision or having been told about safe usage of the device, and when they have understood the resultant risks (with the proviso that the devices are positioned or installed in their normal places of use). Children between 3 and 8 years of age may not insert the plug into the socket, regulate the device, clean the device or carry out user maintenance.

Caution - do not poke or tread any sharp objects into the device. Mechanical damage of any kind (such as extraneous objects inside, cuts,...) can expose live parts. THERE MAY BE NO KINKS IN CABLING.

2) INSTALLATION

Larger "carlo" Thermodom floor heating mats are delivered rolled up. To prevent damage, the floor heating elements may only be unrolled when their temperature is high enough (minimum 15°C).

Note: The floor heating elements may not be used when rolled up. This can result in a higher surface area power output, and thereby represents a risk of fire as a result of heat accumulation.

"carlo" Thermodom floor heating mats may only be placed on level floors capable of supporting the weight. If this is not the case, an appropriate subsurface with corresponding levelling compounds must be provided. Wooden floors must also be even. Ensure that no nails or screw heads are sticking out. No work may be carried out on the floor heating elements (such as drilling and cutting) because this can expose live parts. Always remember that the heating covers are connected to a 230 V supply.

"carlo" Thermodom floor heating mats may not be installed directly underneath a wall power socket.

The mats are fixed heating elements. Loosely placing them on the floor is not permitted - unless the "carlo" Thermodom floor heating mats are heavier than 18 kg (corresponding to about 3.5 m²).

The floor heating elements can be secured with profile rails.

If required, attachment holes for installation with screws can also be provided by the manufacturer.



Note: Ensure that the floor heating elements are only used when the heat is able to dissipate sufficiently. All overlaps (such as when multiple floor heating elements are used or when a mat is folded over) cause overheating, and so represent a risk of fire. Mats may not be laid on steps or edges.

3) ELECTRICAL CONNECTION

Only a specialist may establish the electrical connection. During installation work, conformance to applicable regulations for installing high-voltage systems with a maximum nominal voltage of 1000 V (EN Parts 1 - 4) is a requirement. If the mats have a fixed connection to the power supply system, an all-phase isolator having a 3 mm contact opening as a minimum must be installed (such as an automatic cut-out or earth leakage circuit breaker). A check must be carried out before installation on whether the mains voltage matches the operating voltage specified on the nameplate.

"carlo" Thermodom floor heating mats have a H05VV F 2 x 0.75 mm² cable, with either a Euro plug or round pin plug (with open ends for fixed connection) depending on heating capacity. If the mats have a fixed connection, an all-phase isolator having a 3 mm contact opening as a minimum must be installed (such as an automatic cut-out or earth leakage circuit breaker). The floor heating elements are protection insulated (Protection Class II). A 230 V socket installed properly in line with regulations is adequate for floor heating elements with a connector. If the mains connector cable is damaged, it must be replaced by the manufacturer (so as to avert any hazards).

Technical details:	EFF.....	
	Nominal voltage:	AC 230 V
	Nominal Power:	120 W - 1300 W
	Protection class:	II (protective insulation)
	Safety class:	IP 41 (protection from dripping water)

4) INITIAL USE

A check must be carried out before initial use on whether the mains voltage matches the operating voltage specified on the nameplate. New heater covers can initially generate a slight smell - this stops by itself after a while. Before being used, the floor heating elements must be inspected for signs of damage. Damaged floor heating elements may NOT be used.

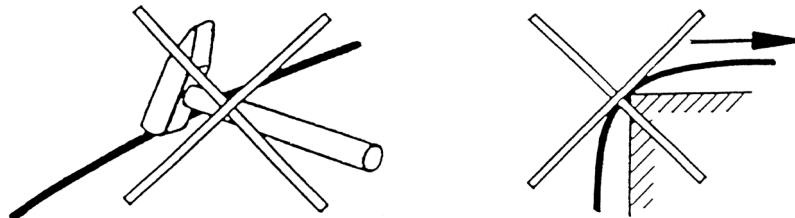
5) HEATING MODE, SAFETY AND MAINTENANCE

Note: "carlo" Thermodom floor heating mats have no temperature regulators. To prevent them from overheating, they must not be covered. Covering "carlo" Thermodom floor heating mats fully or partially with heavy rugs or pieces of furniture which are impervious to heat, and overlapping them, causes heat accumulation and so represents a risk of fire.

"carlo" Thermodom floor heating mats may not be used when rolled up. Overlapping can result in a higher surface area power output, and so represents a risk of fire due to heat accumulation.

The floor heating elements are rated in a way that there is a temperature increase of about 20°C on the surface of the heating elements. External temperature regulation or heating time restriction is permitted.

Caution - do not poke or tread any sharp objects into the device. Mechanical damage of any kind (such as extraneous objects inside, cuts,...) can expose live parts. THERE MAY BE NO KINKS IN CABLING.



"carlo" Thermodom floor heating mats satisfy the relevant safety regulations for electrical equipment. Checks for proper condition must be carried out regularly (such as during weekly cleaning work) in line with ÖVE-E5 Part 1/1989; ÖVE-EN50110. The obligation in § 12.1.6 for routine checking of the electrical equipment of the heating system is satisfied with (at least) annual cleaning and inspection measures prior to commencement of the heating period.

Children younger than 3 years of age must be kept away unless under supervision at all times.

Children between 3 and 8 years of age may only switch the device on and off when under supervision or having been told about safe usage of the device, and when they have understood the resultant risks (with the proviso that the devices are positioned or installed in their normal places of use). Children between 3 and 8 years of age may not insert the plug into the socket, regulate the device, clean the device or **carry out user maintenance**.

"carlo" Thermodom floor heating mats require no maintenance. Ensure however that no damaged floor heating elements are used. Therefore regularly inspect the floor heating elements prior to use for damage and penetration by extraneous objects. To do this, isolate all phases of the "carlo" Thermodom floor heating mats from the supply (pull out the plug if possible) and guard them from being switched on again.

Usage of the mats must be stopped immediately in the event of damage of any kind (such as cuts, breakages, broken terminal strip and defective connector cable). Floor heating elements can be returned to the manufacturer - who then decides on potential repair. Repairs can only be carried out by the manufacturer.

Cleaning:

The surface of the floor heating elements is made of an elastic PVC floor covering (to EN649) which is approved for high levels of use (K4). To clean the mats, the surface can be wiped with water or a PVC floor cleaner. Do not use any solvents or abrasive additives.

6) SAFETY, LABELLING AND CE CONFORMITY

"carlo" Thermodom floor heating mats satisfy the relevant safety regulations for electrical equipment for domestic and similar purposes.

Tested and certified to:

ÖVE/ÖNORM EN 60335-1:2012-11-01
ÖVE/ÖNORM EN 60335- 2-30:2013-03-01

ÖVE/ÖNORM EN 55014-1:2012-06-01
ÖVE/ÖNORM EN 55014-2:2009-08-01
ÖVE/ÖNORM EN 62233:2009-01-01

ÖVE/ÖNORM EN 61000-3-2:2010-05-01
ÖVE/ÖNORM EN 61000-3-3:2014-04-01



certificate Nr.: 55-035-05

This certificate forms the basis for the EC declaration of conformity and CE marking by the manufacturer or its representative, and certifies conformity with the aforementioned standards as laid down in **Low Voltage Directive 2006/95/EC**.

These installation and operating instructions must be kept in a safe place, and be passed on with the "carlo" Thermodom floor heating mats in the event of a change of owner or user.