

M Series Heating Mats

- An economic method of heating a room and providing a luxurious warm floor
- Manufactured to highest quality for complete peace of mind and backed by a 10 year warranty

Application

- Suitable for any room including conservatories, bathrooms and wet rooms
- Ideal for use with a wide variety of floor surfaces including ceramic tiles, porcelain tiles, marble, slate, stone, carpet, vinyl, engineered wood and laminate flooring.

Features

- Twin core heating cable pre-assembled onto a nylon web ensuring uniform spacing and ease of installation
- Pre-wired 3m power lead
- Continuous earth foil
- Continuous double sided tape of underside of heating mat allows secure placing on any clean surface

Cable Specification

- Approved to EN60335-2-96 as required by the 17th Edition Wiring Regulations (BS7671.2008)
- EMC compliant
- 230V supply
- Twin core cable diameter 3mm to 4mm
- Earth screen protection by means of AL/PET Foil

Installation

Tiled Floor

The M Series heating mat should be installed in a flexible self-leveling compound or directly into the tile adhesive. It is important that the heating cable is completely covered.

Other Floor Surfaces (carpet, vinyl, engineered wood and laminate floor)

The M Series mat should be completely covered in a flexible self-leveling compound with the required floor surface applied once the compound is completely dry. Great care must be taken to ensure that fixing devices are not driven through the heating cable.

Where underlay is required, the lowest tog option is recommended. If there is any doubt about the suitability of any given floor surface for use with underfloor heating, confirmation should be sought from the flooring supplier.

Selection

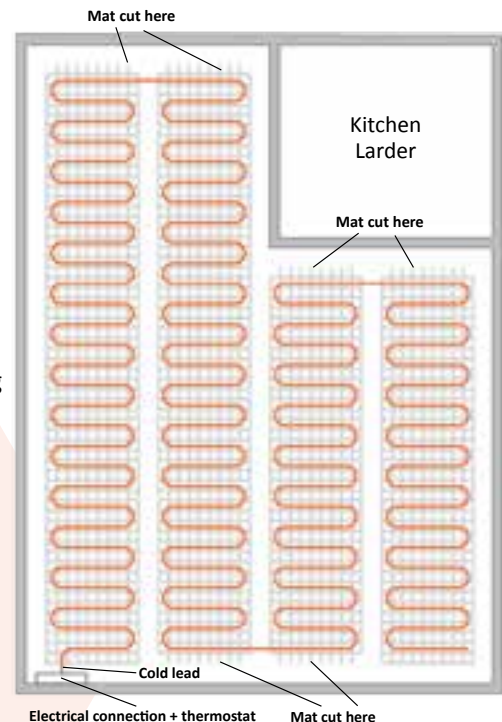
Standard or High Density

Other than in exceptional circumstances standard density heating mats will provide enough output to serve as a sole source of heat in a room.

High density mats may be preferred when one of the following applies.

- A room has exceptionally high heat losses (this may apply to some conservatories)
- A very rapid heat up is required perhaps because a room is rarely used
- It is only possible to heat a small percentage of the total floor area

Typical M Series Installation



Size of Mat

The objective is generally to cover as high a percentage of the free floor area as possible. The free floor area is defined as the floor area not occupied by permanent fixtures such as kitchen cabinets and shower trays.

As a rule of thumb, we suggest selecting a mat with total area approximately 10% less than the total free floor area. This will allow for perimeter spacing and ensure easy installation

Large Rooms

For large rooms it is common practice to use more than one heating mat. In these circumstances there is a choice of subdividing the room into separate zones each controlled by its own thermostat or connecting the heating mats together electrically in parallel and using a single thermostat. When controlling more than one heating mat from a single thermostat it may be necessary to incorporate a contactor into the control circuit. Alternatively, BN Thermic's Wireless Control System allows several heating mats to be controlled without a contactor (see page 14)

M Series Standard Density Mats (150W/m²) - Specifications

Model	Heated Area (m ²)	Mat Size (m)	kW	Weight (kg)
M150-005	0.5	1.0 x 0.5	0.07	0.7
M150-010	1.0	2.0 x 0.5	0.15	1.4
M150-015	1.5	3.0 x 0.5	0.22	2.1
M150-020	2.0	4.0 x 0.5	0.30	2.8
M150-025	2.5	5.0 x 0.5	0.37	3.5
M150-030	3.0	6.0 x 0.5	0.45	4.2
M150-035	3.5	7.0 x 0.5	0.52	4.9
M150-040	4.0	8.0 x 0.5	0.60	5.6
M150-050	5.0	10 x 0.5	0.75	7.0
M150-060	6.0	12 x 0.5	0.90	8.4
M150-070	7.0	14 x 0.5	1.05	9.8
M150-080	8.0	16 x 0.5	1.20	11.2
M150-090	9.0	18 x 0.5	1.35	12.6
M150-100	10	20 x 0.5	1.50	14.0
M150-110	11	22 x 0.5	1.65	15.4
M150-120	12	24 x 0.5	1.80	16.8

High Density Mats (200W/m²) - Specifications

Recommended for Conservatories

Model	Heated Area (m ²)	Mat Size (m)	kW	Weight (kg)
M200-010	1.0	2.0 x 0.5	0.20	1.4
M200-020	2.0	4.0 x 0.5	0.40	2.8
M200-030	3.0	6.0 x 0.5	0.60	4.2
M200-040	4.0	8.0 x 0.5	0.80	5.6
M200-050	5.0	10 x 0.5	1.00	7.0
M200-060	6.0	12 x 0.5	1.20	8.4
M200-070	7.0	14 x 0.5	1.40	9.8
M200-080	8.0	16 x 0.5	1.60	11.2
M200-090	9.0	18 x 0.5	1.80	12.6
M200-100	10	20 x 0.5	2.00	14.0

FOR THERMOSTATS, INSULATION AND OTHER ACCESSORIES - See PAGES 13-16