

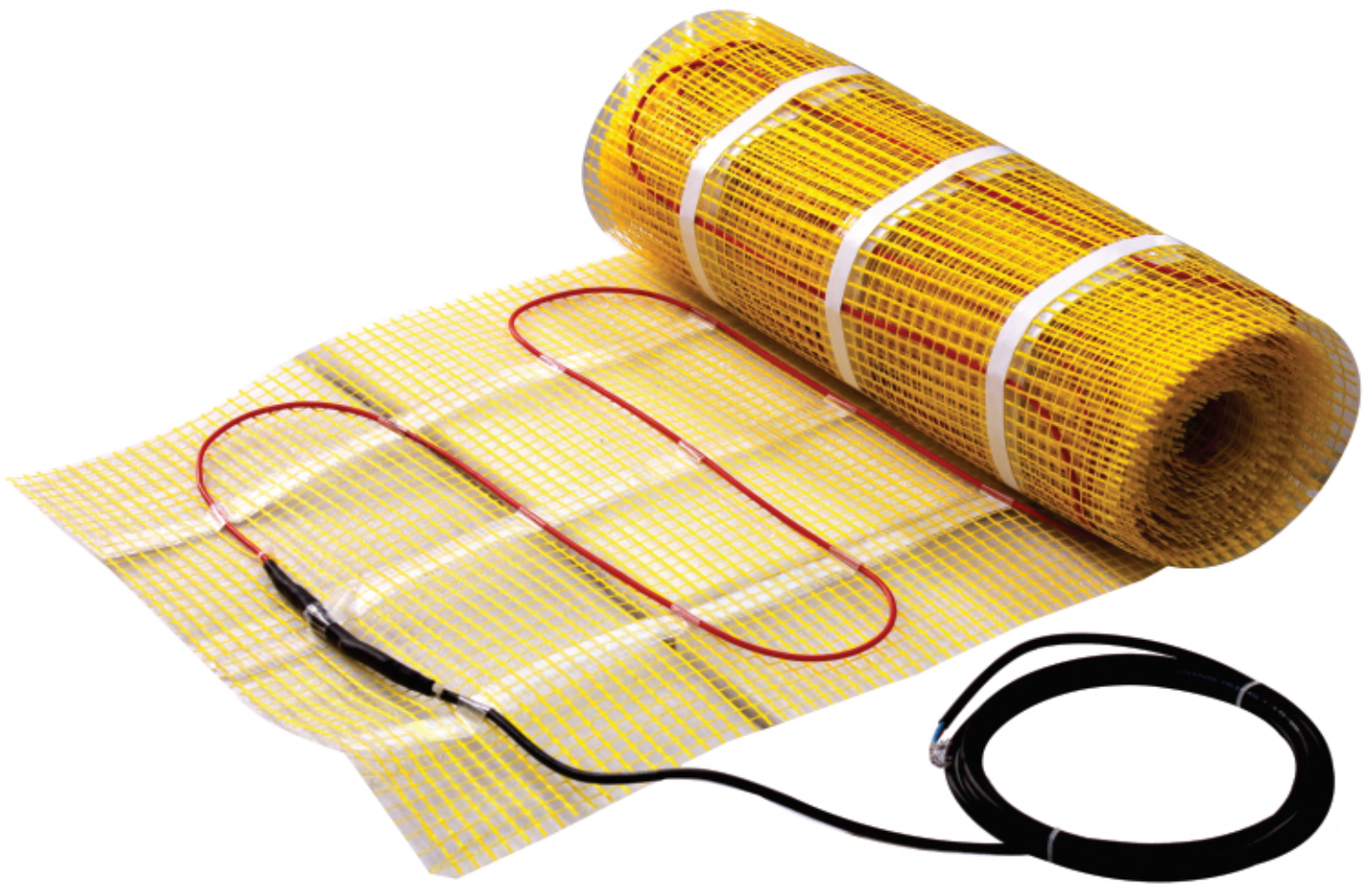


ENGINEERED SOLUTIONS
FOR HEATING & SENSING

ISO 9001-2015



FLOOR HEATING MATS



MARATHON HEATER (I) PVT. LTD.

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FLOOR HEATING MATS

Nothing matches to radiant floor heating. It is more comfortable than any other type of heating system. Radiant heating is also the most energy-efficient way of delivering heat. There is no other heating option that compares in terms of comfort. Radiant floor heating is a low-temperature technology that may be regulated individually in each area. Because it warms the people and item directly rather than heating air.

In most circumstances, radiant floor heating mats may save 20 to 40% of energy compared to other forms of heating system. With digital electronic thermostat, these are completely customizable for maximum comfort and efficiency. The thermostat is regulated to provide optimal economic functioning of the floor heating mat, not the W/m of the heating cable, which determines energy usage.

The following are some of the benefits of floor heating mats:

Free of Ageing : The conductor element is protected from thermal ageing by various high grade insulation. Once installed, the floor heating mat has a life span equal to that of the building.

Maintenance Free : Electrical floor heating mats require minimal maintenance since they do not have any moving parts, unlike hydronic mats, which include valves and other components that require periodic maintenance, tubes in a hydronic system can also get clogged as a result of pollution and must be replaced on a regular basis.

Very thin : The diameter of the cable is less than that of mats with different insulations, such as PVC. It simplifies the laying process. The rise in floor level during installation is minimized as a result of this aspect.

Moisture Resistant : Shielded & insulated floor heating mats are specifically developed for use in areas where moisture is a problem too, such as bathrooms.

Advantages of Marathon Heating Mats

- Easy installation and can be installed in any area in the house and any type of flooring.
- Can be an excellent option for low-energy homes.
- Works quietly from beneath the tiles/plywood.
- Underfloor heating distributes heat where it is needed, resulting in maximum heat efficiency and only very little heat loss.
- Easy to control required temperature in all weather by digital temperature controller with thermostat.
- For optimal protection, Marathon floor heating mats are insulated using XP/PE/ETFE/FEP/PTFE on both the conductors and PVC (HR-FR) on the outer jacket.
- Marathon floor heating mats have been developed particularly to deliver primary heating beneath a variety of flooring. To facilitate 'tape-down' installation, the mats are also available into the preassembled fiber glass mats.
- Marathon floor heating mats are completely grounded and comes with a 3.5 meter long cold lead wire for power connection.

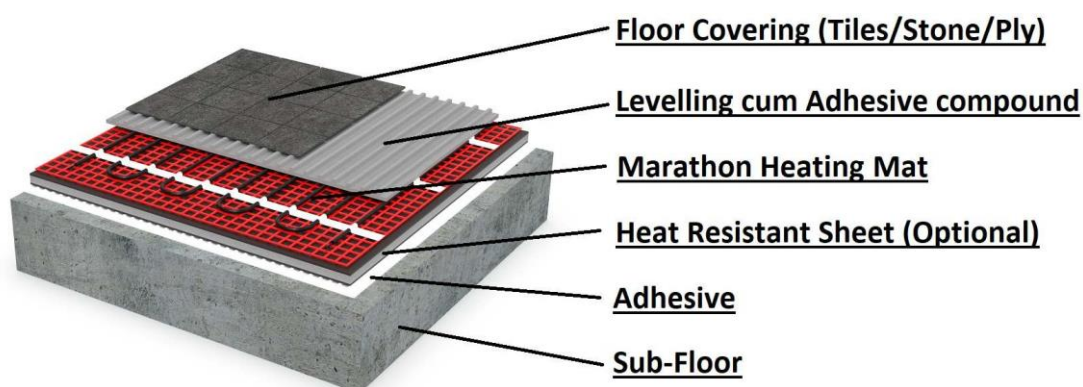
FLOOR HEATING MATS

Features

Shielding Coverage	100% Coverage
Bending Radius	5 times of cable thickness
Jacketing	Heat Resistant and Flame Retardant Jacketing
Flexibility of Cable	Excellent Flexibility for easy installation
Long Cold Lead	3.5 meter cold tail (Can be customized as per requirement)
Comfort	Higher degrees of comfort can be achieved by using heating mats with close and consistent spacing, as well as thermostat to determine temperature needs.
Range	Standard heat loads are available in 100 watt to 3300 watt. As part of the offered product range, several sizes for various types / sizes of flooring are also available.
Custom-Built	In addition to this broad range, mats can be customized to meet specific length requirements, as well as heat loads and voltage needs.

Application

- Remove any trash and sharp protrusions from the subfloor.
- Prior to installation, consider deflection and structural factors.
- Before installing the floor heating mat, check its applicability according to the instructions.
- Prior to putting floor coverings, consider using a scratch coat or a thin leveler.
- Install Heat Resistant Insulation Sheet if want to reduce heat loss (Optional).
- Install Marathon Floor Heating Mat according to the manufacturer's installation directions.
- Set up a digital temperature controller with thermostat for sensing the floor.
- Install the floor covering according to the manufacturer's directions.



Maintenance & Warranty

Marathon floor heating mat requires no maintenance for the remainder of its warrantied life when installed according to the installation instructions and adequate testing has been completed throughout.

Marathon warranty protects the Marathon floor heating mat for a period of 30 years against manufacturer's faults.

FLOOR HEATING MAT (FHM-SX-100)



Heating Cable of 10 w/m
 XLPE Insulation on heating core
 Al Foil Shield With Solid Earth Wire
 Sticky FG Mesh/Non-Sticky FG Mesh/Cross Filament Tape
 Double sided tissue tape / PP tape
 PVC Outer Jacket (Heat Resistance)
 Separate Cold Tail of 3.5 meter.

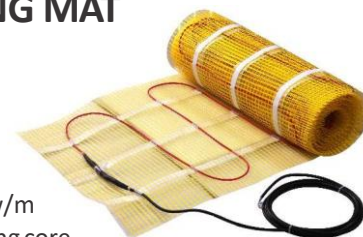
Construction

Heating Cable	10 watt / meter
Spacing	Sticky FG Mesh/ Non-Sticky FG Mesh/ Cross Filament Tape
Core Insulation	XLPE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm (Solid)
Jacket	PVC (HR FR)
Power Output per Meter²	100 Watt / Meter ²
Standard Voltage	230 Volt AC

Range

Model	Watts	Mat Area (Meter ²)
FHM-SX-100-100	100	1.0
FHM-SX-100-200	200	2.0
FHM-SX-100-300	300	3.0
FHM-SX-100-400	400	4.0
FHM-SX-100-500	500	5.0
FHM-SX-100-600	600	6.0
FHM-SX-100-800	800	8.0
FHM-SX-100-1000	1000	10.0
FHM-SX-100-1200	1200	12.0
FHM-SX-100-1500	1500	15.0
FHM-SX-100-1900	1900	19.0

FLOOR HEATING MAT (FHM-DF-150)



Heating Cable of 15.7 w/m
 FEP Insulation on heating core
 Al Foil Shield with Multi-strand Earth Wire
 Sticky FG Mesh/Non-Sticky FG Mesh/Cross Filament Tape
 Double sided tissue tape / PP tape
 PVC Outer Jacket (Heat Resistance)
 Separate Cold Tail of 3.5 meter.

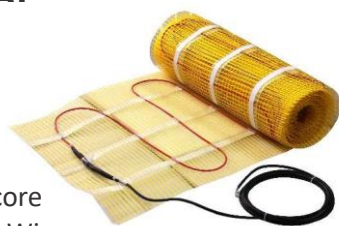
Construction

Heating Cable	15.7 watt / meter
Spacing	Sticky FG Mesh/ Non-Sticky FG Mesh/ Cross Filament Tape
Core Insulation	FEP
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	Multi-strand 0.5mm ²
Jacket	PVC (HR FR)
Power Output per Meter²	150 Watt / Meter ²
Standard Voltage	230 Volt AC

Range

Model	Watts	Mat Area (Meter ²)
FHM-DF-150-150	150	1.00
FHM-DF-150-187.5	187.5	1.25
FHM-DF-150-225	225	1.50
FHM-DF-150-262.5	262.5	1.75
FHM-DF-150-300	300	2.00
FHM-DF-150-337.5	337.5	2.25
FHM-DF-150-375	375	2.50
FHM-DF-150-450	450	3.00
FHM-DF-150-525	525	3.50
FHM-DF-150-600	600	4.00
FHM-DF-150-675	675	4.50
FHM-DF-150-750	750	5.00
FHM-DF-150-900	900	6.00
FHM-DF-150-1050	1050	7.00
FHM-DF-150-1200	1200	8.00
FHM-DF-150-1350	1350	9.00
FHM-DF-150-1500	1500	10.00
FHM-DF-150-1650	1650	11.00
FHM-DF-150-1800	1800	12.00
FHM-DF-150-1950	1950	13.00
FHM-DF-150-2250	2250	15.00

FLOOR HEATING MAT (FHM-SX-200)



Heating Cable of 17 w/m
XLPE Insulation on heating core
Al Foil Shield With Solid Earth Wire
Sticky FG Mesh/Non-Sticky FG Mesh/Cross
Filament Tape
Double sided tissue tape / PP tape
PVC Outer Jacket (Heat Resistance)
Separate Cold Tail of 3.5 meter.

Construction

Heating Cable	17.0 watt / meter
Spacing	Sticky FG Mesh/ Non-Sticky FG Mesh/ Cross Filament Tape
Core Insulation	XLPE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	TPC 1.0mm (Solid)
Jacket	PVC (HR FR)
Power Output per Meter ²	200 Watt / Meter ²
Standard Voltage	230 Volt AC

Range

Model	Watts	Mat Area (m ²)
FHM-SX-200-200	200	1.00
FHM-SX-200-300	300	1.50
FHM-SX-200-400	400	2.00
FHM-SX-200-500	500	2.50
FHM-SX-200-600	600	3.00
FHM-SX-200-700	700	3.50
FHM-SX-200-850	850	4.25
FHM-SX-200-1000	1000	5.00
FHM-SX-200-1250	1250	6.25
FHM-SX-200-1500	1500	7.50
FHM-SX-200-1700	1700	8.50
FHM-SX-200-2100	2100	10.50
FHM-SX-200-2600	2600	13.00
FHM-SX-200-2900	2900	14.50
FHM-SX-200-3300	3300	16.50

FLOOR HEATING MAT (FHM-DE-240V-12)



Heating Cable of 3 w/f
XLPE Insulation on heating core
Al Foil Shield with Multi-strand Earth Wire
Sticky FG Mesh/Non-Sticky FG Mesh/Cross Filament Tape
Double sided tissue tape / PP tape
PVC Outer Jacket (Heat Resistance)
Separate Cold Tail of 3.5 meter.

Construction

Heating Cable	3.0 watt / Feet
Spacing	Sticky FG Mesh/ Non-Sticky FG Mesh/ Cross Filament Tape
Core Insulation	ETFE
Shielding	Aluminium Foil For 100% Coverage
Earth Wire	Multi-strand
Jacket	PVC (HR FR)
Power Output per Feet ²	12 Watt / Feet ²
Standard Voltage	240 Volt AC

Range

Model	Watts	Mat Area (Feet ²)
FHM-DE-240V-12-120	120	10
FHM-DE-240V-12-180	180	15
FHM-DE-240V-12-240	240	20
FHM-DE-240V-12-300	300	25
FHM-DE-240V-12-360	360	30
FHM-DE-240V-12-420	420	35
FHM-DE-240V-12-480	480	40
FHM-DE-240V-12-540	540	45
FHM-DE-240V-12-600	600	50
FHM-DE-240V-12-660	660	55
FHM-DE-240V-12-720	720	60
FHM-DE-240V-12-840	840	70
FHM-DE-240V-12-960	960	80
FHM-DE-240V-12-1080	1080	90
FHM-DE-240V-12-1200	1200	100
FHM-DE-240V-12-1320	1320	110
FHM-DE-240V-12-1440	1440	120
FHM-DE-240V-12-1680	1680	140
FHM-DE-240V-12-1920	1920	160
FHM-DE-240V-12-2160	2160	180
FHM-DE-240V-12-2400	2400	200