

# nANOheat®

## Excellence in Heating

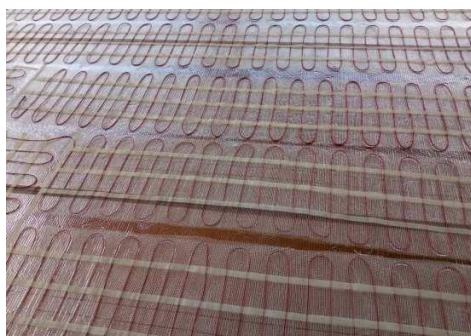
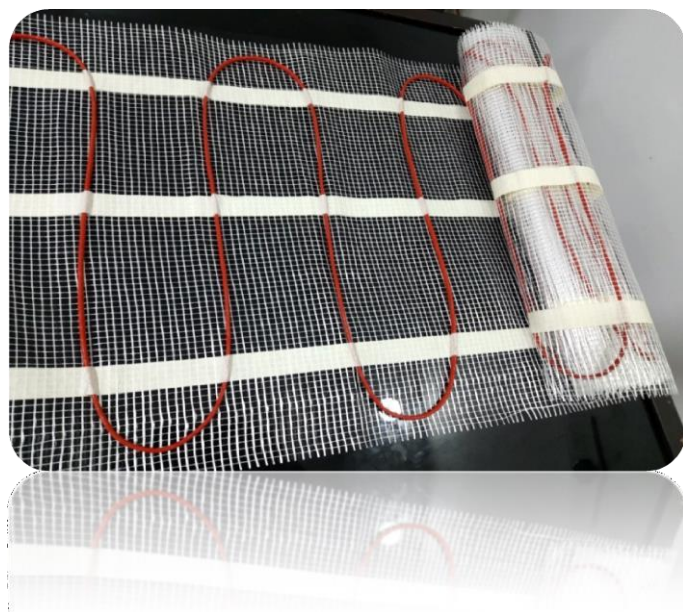
### *Your Smart Floor Heater*

Hotway Thermal Technology Khasra No – 1066, A Block Street No. – 6

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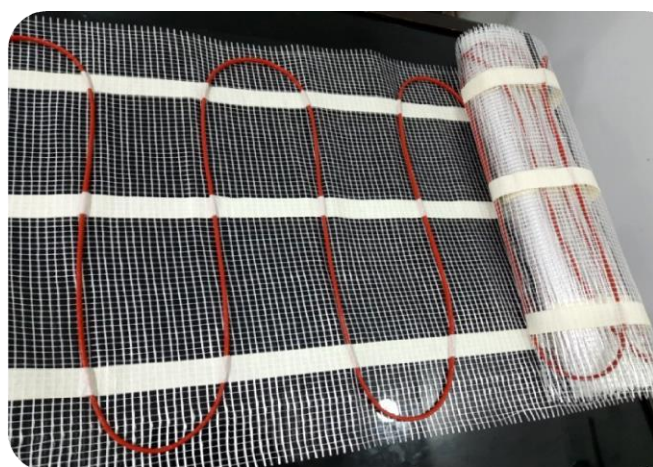
## 150 Watt/m<sup>2</sup> heating mat

Sl. No.	Part No.	Mat Size	Area Sq. mtr/Feet	Watt.
1	HTT150/1	0.50x2 mtr	1/11	150
2	HTT150/1.5	0.50x3mtr	1.5/16	225
3	HTT150/2	0.50x4mtr	2/22	300
4	HTT150/2.5	0.50x5mtr	2.5/27	375
5	HTT150/3	0.50x6mtr	3/33	450
6	HTT150/3.5	0.50x7mtr	3.5/39	525
7	HTT150/4	0.50x8mtr	4/44	600
8	HTT150/4.5	0.50x9mtr	4.5/50	675
9	HTT150/5	0.50x10mtr	5/55	825
10	HTT150/6	0.50x12mtr	6/66	900
11	HTT150/7	0.50x14mtr	7/78	1050
12	HTT150/8	0.50x16mtr	8/90	1200
13	HTT150/9	0.50x18mtr	9/100	1350
14	HTT150/10	0.50x20mtr	10/111	1500
15	HTT150/11	0.50x22mtr	11/122	1650
16	HTT150/12	0.50x24mtr	12/133	1800



### 165 Watt/m<sup>2</sup> heating mat

Sl. No.	Part No.	Mat Size	Area Sq. mtr/Feet	Watt.
1	HTT165/1	0.50x2 mtr	1/11	165
2	HTT165/1.5	0.50x3mtr	1.5/16	250
3	HTT165/2	0.50x4mtr	2/22	330
4	HTT165/2.5	0.50x5mtr	2.5/27	410
5	HTT165/3	0.50x6mtr	3/33	495
6	HTT165/3.5	0.50x7mtr	3.5/39	578
7	HTT165/4	0.50x8mtr	4/44	660
8	HTT165/4.5	0.50x9mtr	4.5/50	743
9	HTT165/5	0.50x10mtr	5/55	825
10	HTT165/6	0.50x12mtr	6/66	990
11	HTT165/7	0.50x14mtr	7/78	1150
12	HTT165/8	0.50x16mtr	8/90	1320
13	HTT165/9	0.50x18mtr	9/100	1485
14	HTT165/10	0.50x20mtr	10/111	1650
15	HTT165/11	0.50x22mtr	11/122	1800
16	HTT165/12	0.50x24mtr	12/133	1980



Length (M)	Width (M)	Part No.	Watt.	Part No.	Watt.	Part No.	Watt.
2.0	0.50	HTT200/1	200	HTT225/1	225	HTT100/1	100
3.0	0.50	HTT200/1.5	300	HTT225/1.5	338	HTT100/1.5	150
4.0	0.50	HTT200/2	400	HTT225/2	450	HTT100/2	200
5.0	0.50	HTT200/2.5	500	HTT225/2.5	560	HTT100/2.5	250
6.0	0.50	HTT200/3	600	HTT225/3	675	HTT100/3	300
7.0	0.50	HTT200/3.5	700	HTT225/3.5	780	HTT100/3.5	350
8.0	0.50	HTT200/4	800	HTT225/4	900	HTT100/4	400
9.0	0.50	HTT200/4.5	900	HTT225/4.5	1000	HTT100/4.5	450
10.0	0.50	HTT200/5	1000	HTT225/5	1125	HTT100/5	500
12.0	0.50	HTT200/6	1200	HTT225/6	1350	HTT100/6	600
14.0	0.50	HTT200/7	1400	HTT225/7	1575	HTT100/7	700
15.0	0.50	HTT200/8	1600	HTT225/8	1800	HTT100/8	800
16.0	0.50	HTT200/9	1800	HTT225/9	2000	HTT100/9	900
18.0	0.50	HTT200/10	2000	HTT225/10	2250	HTT100/10	1000
20.0	0.50	HTT200/11	2200	HTT225/11	2400	HTT100/11	1100
22.0	0.50	HTT200/12	2400	HTT225/12	2700	HTT100/12	1200
25.0	0.50	HTT200/12.5	2500	HTT225/12.5	2800	HTT100/12.5	1250

These **Floor Heaters** are designed for a variety of applications. Modern under floor heating systems use electrical resistance elements ("electric systems") to heat the floor. This type can be installed as the primary, whole-building heating system or as localized floor heating for thermal comfort.

Under floor heating is a form of central heating which achieves indoor climate control for thermal comfort using conduction, radiation and convection. The terms radiant heating and radiant cooling are commonly used to describe this approach because radiation is responsible for a significant portion of the resulting thermal comfort but this usage is technically correct only when radiation composes more than 50% of the heat exchanged between the floor and the rest of the space.

Floor heating systems are used only for heating and employ non-corrosive, flexible heating elements including cables, pre-formed cable mats. Due to their low profile they can be installed in a thermal mass or directly under floor finishes. Electric systems can also take advantage of time-of-use electricity metering and are frequently used as carpet heaters, portable under area rug heaters, under laminate floor heaters, under tile heating, under wood floor heating, and floor warming systems, including under shower floor and seat heating. Large electric systems also require skilled designers and trades people but this is less so for small floor warming systems. Electric systems use fewer components and are simpler to install and commission than hydronic systems. Some electric systems use line voltage technology while others use low voltage technology. Power consumption of an electric system is not based on voltage but rather wattage output produced by the heating element.

### Indoor Air Quality

Under floor heating can have a positive effect on the quality of indoor air by facilitating the choice of otherwise perceived cold flooring materials such as tile, slate, terrazzo and concrete. These masonry surfaces typically have very low VOC emissions (volatile organic compounds) in comparison to other flooring options. In conjunction with moisture control, floor heating also establishes temperature conditions that are less favorable in supporting mold, bacteria, viruses and dust mites.[24][25] By removing the sensible heating load from the total HVAC (Heating, Ventilating, and Air Conditioning) load, ventilation, filtration and dehumidification of incoming air can be accomplished with dedicated outdoor air systems having less volumetric turnover to mitigate distribution of airborne contaminants. There is recognition from the medical community relating to the benefits of floor heating especially as it relates to allergens.

### Safety and Health

Low temperature under floor heating is embedded in the floor or placed under the floor covering. As such it occupies no wall space and creates no burn hazards, nor is it a hazard for physical injuries due to accidental contact leading to tripping and falling. This has been referenced as a positive feature in healthcare facilities including those serving elderly clients and those with dementia Anecdotaly, under similar environmental conditions, heated floors will speed evaporation of wetted floors (showering, cleaning, and spills).

# Your smart heating system



## Benefits of Electric Under Floor Heating mat

- ✓ Heat is spread evenly across the whole floor area  
This provides a more comfortable climate for you wherever you are in the room. (Easy to install)
- ✓ With no water pipes involved, there is no danger of leaks so you don't have to worry about damage to your property.
- ✓ There are cost savings too, as there is no need for any kind of maintenance contract as once the systems are installed they can be forgotten about for years to come.
- ✓ Children friendly.
- ✓ With no moving parts involved in floor heating, so no more scary noises in the night.

# Technical Data

## Heating Mat:-

Dimensions –all mats are 0.5m wide. Lengths available: 1mtr – 24 mtr,

Rating Voltage: 110/230-240 vac

Power unit: 150/165/200/225 Watt/m<sup>2</sup>, +/-10%

Min. bending radius: 30mm

Min. cable space: 75mm

Max. Ambient temperature: 40°C

Min. installation temperature: 5°C

Heating cable: Twin wires, grounded, insulation jacket  
by PTFE (Teflon) Insulation.

Connecting leads: 2 Core 1.5 Sq.mm with grounded braid, length 3mtr

All components comply fully with all relevant Tests and measurement  
as per Standard.

Guarantee / Warranty - What we offer:

*10 Year Guarantee* on the Heating mat -(Valid if only  
in accordance with our instructions and all other  
conditions detailed in the warranty).