

Heat Mat

Underfloor Heating

Heat Mat is proud
to be a Business
Member of the
Sussex Wildlife Trust



It's **easy** to install
It's **easy** on the pocket
It's **easier** on the environment



Made in Denmark and the UK



Heat Mat's product range includes products with the approvals displayed above, please see individual product pages for more information

Welcome to Heat Mat, your underfloor heating specialists

We are facing challenging times when it comes to heating our houses and businesses, whether it's squeezing those monthly bills, shrinking our carbon footprint, or just keeping comfortable in the British weather.

While most of us have heard of underfloor heating (it's been around since Roman times) many of us don't realise that it is an affordable option for our family homes and our workplaces.

It's easy to install

It's easy on the pocket

It's easier on the environment

**Say goodbye
to those slippers**



Which underfloor heating system is suitable for your circumstances?

This brochure aims to explode some of the myths and shed light on some of the mysteries surrounding underfloor heating. Whether you're selling, renting or just staying put, investing in a more effective, safe and practical heating system will bring tangible benefits.

No matter what kind of flooring you have there is almost certainly a Heat Mat underfloor heating system fit for your purpose. Regardless of whether you are a DIY fanatic or an advocate of the "get-someone-in" approach it is remarkably easy to achieve.

Find the system which matches your floor in the table below and read on for advice on how to plan, install and reap the benefits of one of the leading underfloor heating systems on the market. If you have any questions or would like to discuss your requirements our Heat Mat advisors will be happy to help on 01444 247020.

Heat Mat's systems are only available through selected specialist retailers throughout the UK and Ireland.



Which product for your floor?

| Flooring Type | 160W/m ² Heating Mats | 200W/m ² Heating Mats | Undertile Heating Cable | Underlamine System |
|-----------------------|----------------------------------|----------------------------------|-------------------------|--------------------|
| Page Number | 12 | 12 | 14 | 15 |
| Tiles | ● | ● | ● * | |
| Natural Stone | | ● | ● * | |
| Laminate/wood | | | | ● |
| Carpet | ● | | ● * | |
| Vinyl/Karndean | ● | | ● * | |

* Please note, we only recommend heating cable for very small or particularly complicated areas as heating mats are far quicker and simpler to install in standard rooms.

Where to begin?



First things first, read through this brochure and either speak to your retailer or call the Heat Mat Team on 01444 247020 for design advice.

They will be happy to walk you through the entire process from planning a room and choosing the correct materials to switching on to warmth, savings and slipperless feet.

Here is a brief overview of the simple steps to installing underfloor heating in your property.

Measure the floor

Remove any furniture and obstacles to ensure that you get an accurate picture of the area. Areas that will have items such as beanbags placed on them, which have no air gap beneath them to allow the heat to move out, should not be included in your measurements.

Decide what product will be best

Check the table on page 3 of this leaflet or call us on 01444 247020.

Remove your old floor if required

The messy bit! Either call a professional or roll up your sleeves and get mucky. Heat Mat's systems can often be laid directly on top of old tiled floors without the need to remove them.

Fit your Heat Mat system

Follow the comprehensive fitting and installation instructions supplied with your product and remember we are always here to help. Copies of the instructions can also be downloaded from our website – www.heatmat.co.uk

Lay your new floor

Once the system has been installed it's time to lay your floor covering. This will be the last time you see your heating system.

Carry out electrical checks and connect to the mains supply

This step must be carried out by a suitably qualified electrician.

Register your Lifetime Warranty

Go online or contact us to register your Lifetime Warranty for your heating system.

Switch on...

Switch on and enjoy the superior comfort of underfloor heating, take advantage of the flexibility to place your furniture as you wish and the economy of heating each room individually.

It's easy to install

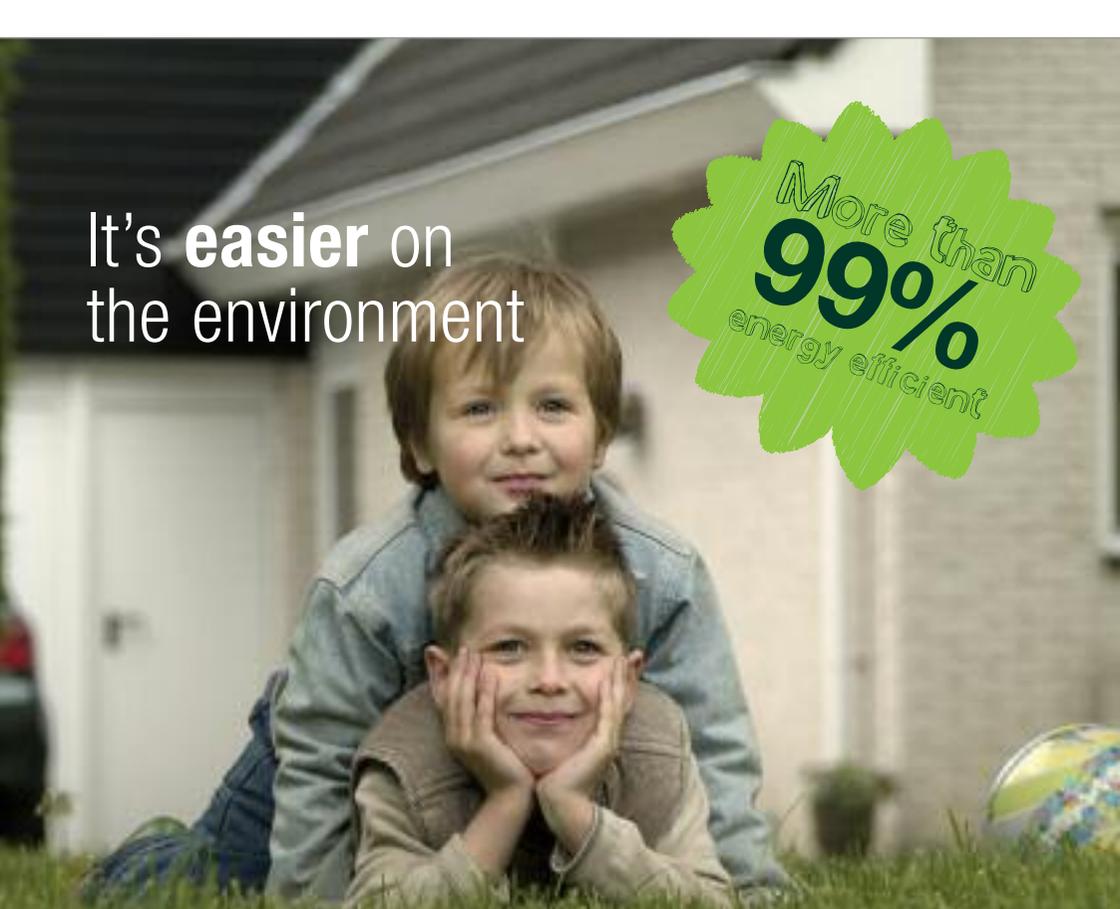
Installing a Heat Mat system is a big job but not a difficult one. You can be ready to switch on in as little as seven simple steps. It is perfectly possible to install Heat Mat yourself or you can hire a professional to do the work for you.

Whichever route you choose Heat Mat will give you honest advice however it is vital that the connection of the system to the building's mains supply is carried out by a qualified electrician.

The most important thing is your safety and that you never take on a task you are not comfortable with. Remember we're here to help.

Heat Mat's Lifetime Warranty covers your heating mats, cables or underlamine system and full details are available at www.heatmat.co.uk





It's **easier** on
the environment

More than
99%
energy efficient

Heating your home or business more efficiently significantly reduces your carbon footprint, especially in combination with improved insulation. At Heat Mat we are committed to minimising climate change on both a corporate and personal level.

Our heating systems and packaging are, where possible, made from environmentally sensitive materials, have a very long life and are easy to dispose of in the unlikely event they need to be replaced.

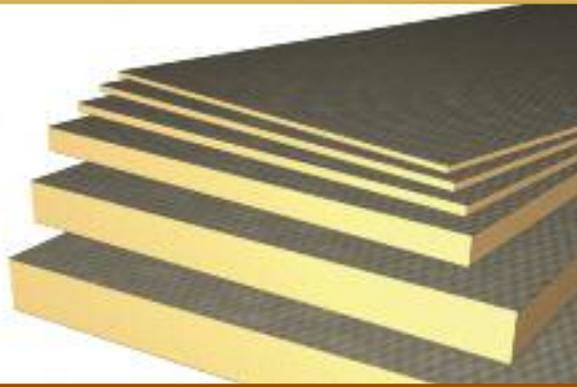
All Heat Mat systems are more than 99% efficient at converting electricity into heat, where as the best gas condensing boilers are around 90% efficient, and conventional boilers can be as little as 75% efficient.

Unique amongst electric underfloor heating suppliers, all of our underfloor heating products, and our structural insulation board, are manufactured in the UK or Denmark. This helps ensure that any Heat Mat product you purchase has been produced in a factory with a high regard for the environment, and minimises the travel miles from factory to shop floor.

Stay warm and feel good about it.

Perfect for...

Insulating and boosting the warm-up time and efficiency of your heating system.



Heat Mat Thermal Insulation Board

Our thermal insulation board is ideal for insulating your floor and boosting the warm-up time and efficiency of your heating system. The product is suitable for use beneath any of our underfloor heating systems and the boards can pay for themselves, through reduced heating bills, in as little as 3 years when used on un-insulated bases.

- Insulation boards increase the efficiency of all Heat Mat systems
- Available in various thicknesses from 6mm to 50mm to suit your requirements
- 10mm boards offer a good trade off between insulation value and build height
- Reduce your carbon footprint and your fuel bills
- Made in the UK minimising transport miles
- Completely waterproof, they will not warp, swell or decay
- Significant soundproofing qualities



A cut-away diagram of the floor build-up showing how the Heat Mat Thermal Insulation Board is layered with the heating system and finally the floor covering to provide the optimum level of efficiency.

Board Sizes (6mm, 10mm and 20mm kept in stock)

| Thickness (mm) | Weight (Kg/Board) | U Value (W/m ² K) |
|----------------|-------------------|------------------------------|
| 6.0 | 1.95 | 4.50 |
| 10.0 | 2.22 | 2.70 |
| 12.5 | 2.28 | 2.16 |
| 20.0 | 2.48 | 1.35 |
| 30.0 | 2.74 | 0.90 |
| 40.0 | 3.00 | 0.67 |
| 50.0 | 3.26 | 0.54 |

More efficient AND more effective!

24°C

A traditional radiator system often creates draughts, leading to the warmest air being close to the ceiling and colder air on the floor. They also provide an obstacle to laying out your furniture in just the way you want it.

20°C



16°C

18°C

With Heat Mat underfloor heating draughts are minimised as the heat is evened out across your entire floor. The warm air slowly rises providing increased comfort and you can have complete flexibility in placing your furniture.

20°C



22°C

Underfloor heating is a very effective way to warm a room in comparison to radiators or panel heaters. Radiators and panel heaters usually create draughts which lead to rooms heating unevenly and the warmest air being trapped at ceiling height.

Underfloor heating uses the entire floor as a heater ensuring draughts are minimised as the warm air gently rises. The temperature just above the floor surface remains warmer than the air at ceiling height, ensuring you do not 'waste' energy providing warmth where you do not need it.

The majority of people feel more comfortable living with an underfloor heating system than they did with conventional radiators or panel heaters and often drop the room temperature down by a few degrees, making further savings on energy usage.

Our underfloor heating systems are more than 99% energy efficient compared to gas boilers that are often as little as 75% efficient, and thermostatically controlling each room individually further increases the system's efficiency.

Finally, with electric underfloor heating there are no ongoing maintenance costs bringing down the real cost of ownership over the life of the system when compared to using a gas boiler with its required maintenance regime.

For more information on using your system in the most energy efficient way please call us on 01444 247020.

A woman in a white dress is holding a red sequined handbag with both hands. The background is a soft, out-of-focus white.

It's **easy** on the pocket

Once you are switched on, underfloor heating can bring you savings that keep on earning hour by hour. You can track your energy usage via each thermostat in your home and it is simple to alter the times when the heating system is providing power on a room by room basis, maximising your savings.

On top of the operational benefits, a luxurious underfloor heating system can be the deal clincher for property buyers or tenants allowing you to gain a higher price.

**Bask in the warmth
of your switched
on investment!**



Heat Mat – the intelligent choice

Buying from a brand name you can trust

With more than 600,000m² of UFH underfloor heating installed and 15 years experience of the UK underfloor heating market, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements. This is why we are the Professional's Choice, the number one underfloor heating supplier to the professional installation market.

Purchasing from a company that genuinely cares about the environment and our impact on it

All of our heating products can be 100% powered by renewable energy sources (such as photovoltaic cells or wind turbines) and are designed to make it very simple to place thermal insulation directly beneath them, ensuring the ultimate return on your investment. Heat Mat systems have amongst the lowest product travel miles in our industry with all items being manufactured in the UK and Denmark. This helps minimise the true environmental impact of shipping the goods to you.

Technical support

From the inception of your project to helping you programme your thermostat just the way you want it Heat Mat are there every step of the way.

Lifetime Warranties that mean something

Many companies offer warranties with their systems but those warranties are worth nothing if the company providing them no longer exists. By purchasing from Heat Mat, rather than a small online company, you are ensuring if you require customer support in the future there will be someone there to help.

Quality and continuity of products

In these times of numerous product recalls of foreign manufactured products we continue to manufacture all our underfloor heating products in Denmark and the UK, the majority of them in independently approved factories. This guarantees their consistent high quality.

Independent approvals

Rather than simply claim to have high quality and safe products, at Heat Mat we prove this with independent approvals from BEAB, VDE, Kema and Semko.

Fair prices

Heat Mat products are consistently less expensive than the leading alternative brands, whilst still offering independent approvals, Lifetime Warranties and fantastic quality. Additionally, unlike some websites that use dubious tactics to trick the consumer for example by offering 30% off their retail price year in year out, we offer simple competitive pricing all the time.

 Heat Mat is proud to be a business member of the Sussex Wildlife Trust, supporting its work to make Sussex a better place for wildlife and people.



Underfloor heating – minimising our environmental impact



Electric underfloor heating can provide a very energy efficient and an environmentally friendlier form of heating than alternatives, when installed and used in the correct way. There are a number of actions you can take to ensure that your heating system runs in as energy efficient manner as possible and some of our suggestions are listed below:

Installation considerations

When deciding on which system you are going to install the following actions will ensure it can run as efficiently as possible:

Placing our 20mm insulation boards directly beneath your heating system will significantly decrease the warm up time and prevents downward heat loss, benefiting your pocket and the environment. 10mm and 6mm boards can also be supplied if you are restricted for build height.

Use a separate programmable thermostat in each room so that each area stops heating when it reaches the desired temperature.

If installing a system beneath tiles use a 200W/sqm system instead of a 160W/sqm system. This will ensure the warm up time of the system is minimised allowing the system to run more efficiently.

Low carbon power supply

Although all Heat Mat underfloor heating systems can be powered by micro-generation devices, these usually cost in the region of £3,000/€4,000 per installed kilowatt and many properties are not suitable for installing photovoltaic cells or a wind turbine. A good alternative is to purchase your electricity from one of the many companies offering, for a small premium, to supply you with power from renewable sources.

Thermostat settings

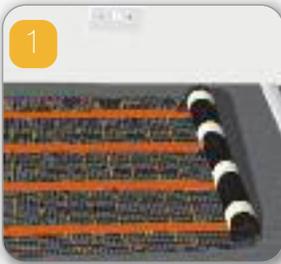
By reducing the target temperature on your thermostat by just one degree you can make a significant difference to the amount of power used. Additionally, ensure that your thermostat only heats the floor when you require it. If the system is in a room you only use at the weekend ensure that it is set to only heat on Saturday and Sunday.

The thermostat has an intelligent adaptive function that utilises ‘fuzzy logic’ to learn when to switch your system on. If you enable this function, and tell the thermostat when you require your room to be heated by, it will take into account how long it takes to heat your floor and adapt it’s start and end time suitably throughout the year.

Living with your system

If you find that your heating system makes the room too hot, rather than opening a window or door simply call us on 01444 247020 and we will help you program your thermostat just the way you want it.





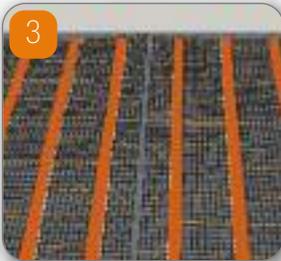
1

Unroll your heating mat.



2

Cut the heating mat, but not the cable, when you reach an obstruction.



3

Continue to fit until your floor is covered or you start to fit your second heating mat.

Heat Mat Undertile Heating Mats

Our award-winning range of heating mats are simple and trouble-free to install and are particularly suited to large areas where they are quicker to install than loose cable systems. They offer a fast acting system regardless of whether you wish to heat one room in a new extension or your whole house.

You have a choice between a high output 200W/sqm system that is particularly suited for use in conservatories and high heat loss rooms and a standard 160W/sqm system that can also be used beneath carpeted and vinyl flooring once it is covered with a suitable levelling compound.

- Pre-spaced heating cable
- BEAB approved and supplied with a Lifetime Warranty
- Economic to purchase and install
- 160W/sqm mats can be used beneath virtually any floor covering
- Extremely low build height
- Can provide a complete heating system in most circumstances
- Compatible with thermal insulation boards for increased efficiency
- 200W/sqm mats can usually provide sole source heating, even in conservatories and other rooms where hot water for radiators is not available.



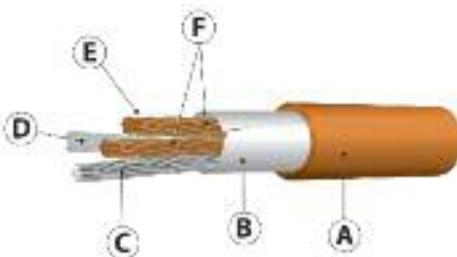


Typical bathroom layout

Technical Specification

Heat Mat's 3mm heating wire represents the cutting edge in underfloor heating technology incorporating dual fluoropolymer coated heating wires, a 100% aluminium earth shield and robust PVC outer insulation. The wire is then pre-spaced on a fibreglass mesh that also provides robust protection during the installation of the product. Our heating mats are fully BEAB system approved and manufactured in our BEAB approved factory in Denmark.

For full details of the comprehensive range of heating mat sizes please see our website www.heatmat.co.uk



- | | |
|--|---|
| A. Robust PVC (Y) outer insulation. | D. Fibreglass reinforcement cable for tensile strength. |
| B. 100% aluminium earth shield for safety. | E. Fluoropolymer insulation rated to 200°C. |
| C. High load earth drain wire. | F. Litzter style twin spiral wound resistance wires. |

4

i Heat Mat recommends installing floor sensors in conduit.

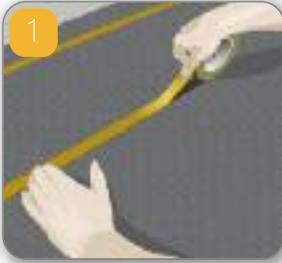
Place the floor sensor under one mat between two heating cables

5

Remove the backing from the adhesive tapes.

6

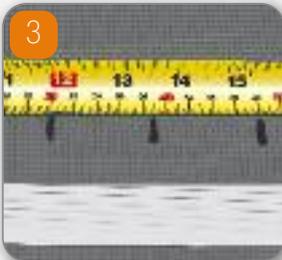
Take care to ensure both sections of each mat with orange warnings are laid flat on your floor.



Lay out strips of double-sided tape onto your floor.



Strip the backing from the tape.



Mark beside the tape your chosen cable to cable distance.



Lay out the cable at your chosen spacing and use the tape to secure it to the floor.



Our system does not require the entire cable to be covered with masking tape.



Ensure both sections with orange warnings are laid flat on your floor.

Heat Mat Undertile Heating Cable

Our loose heating cable is a product that provides you the flexibility to install underfloor heating whatever your room shape and size and in whatever output you require.

You can vary the output of the system by altering the spacing between the cable runs allowing you to increase the heat output in specific areas if required, for instance by a draughty doorway.

- The same cable technology as our heating mats, but with added flexibility
- Alter the heat output to match your individual requirements
- Perfectly suited for very small or complicated rooms
- BEAB approved and supplied with a Lifetime Warranty
- Economic to purchase and install
- Extremely low build height
- Can provide a complete heating system in most circumstances
- Compatible with thermal insulation boards for increased efficiency
- For full details of the comprehensive range of cable sizes please see our website www.heatmat.co.uk





Place Decora insulation layer onto your floor and tape the joins.



Roll out your first heating mat.



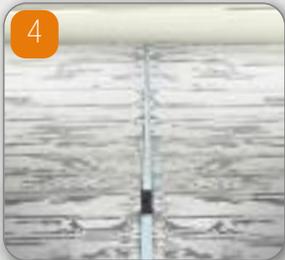
Cut the heating mat, but not the cable, when you reach an obstruction.

Heat Mat Underlamine System

Our Underlamine System is the perfect fast-to-fit solution for use beneath floating laminate and engineered wood floors. It benefits from a fully earthed conductor wire and an aluminium heat dissipation layer to spread the heat.



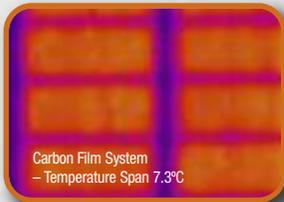
- Safe for use in all rooms including bathrooms
- Made in the UK with a Lifetime Warranty
- Simple to install, no need for levelling compounds
- Toughened Kevlar outer-insulation to prevent damage
- Can be used with suitable floors up to 18mm thick
- Supplied in a wide variety of sizes
- 95% floor coverage usually attainable
- For full details of the comprehensive range of mat sizes please see our website www.heatmat.co.uk



Continue to fit until your floor is covered or you start to fit your second heating mat.



Cut channels in the insulation beneath all the connection cables.



Carbon Film System
– Temperature Span 7.3°C

Heat Mat's underlamine heating system offers a more even heat spread than carbon films whilst also incorporating full earthing for safety.



Heat Mat
Underfloor Heating

Heat Mat System
– Temperature Span 2.6°C

Please see our press release on this subject at www.heatmat.co.uk for full details of the tests carried out.



Tape over all exposed heating cables and the edges of the mats with aluminium tape.

Exclusive to Heat Mat

**Our innovative thermostats offer
a unique range of features**

**Simple to operate
using plain English**

**Learns the heat
characteristics of your room**

**Displays your energy
usage in £'s and pence**

**Monitors both air and
floor temperature**

**For full details
please see
our website
www.heatmat.co.uk**



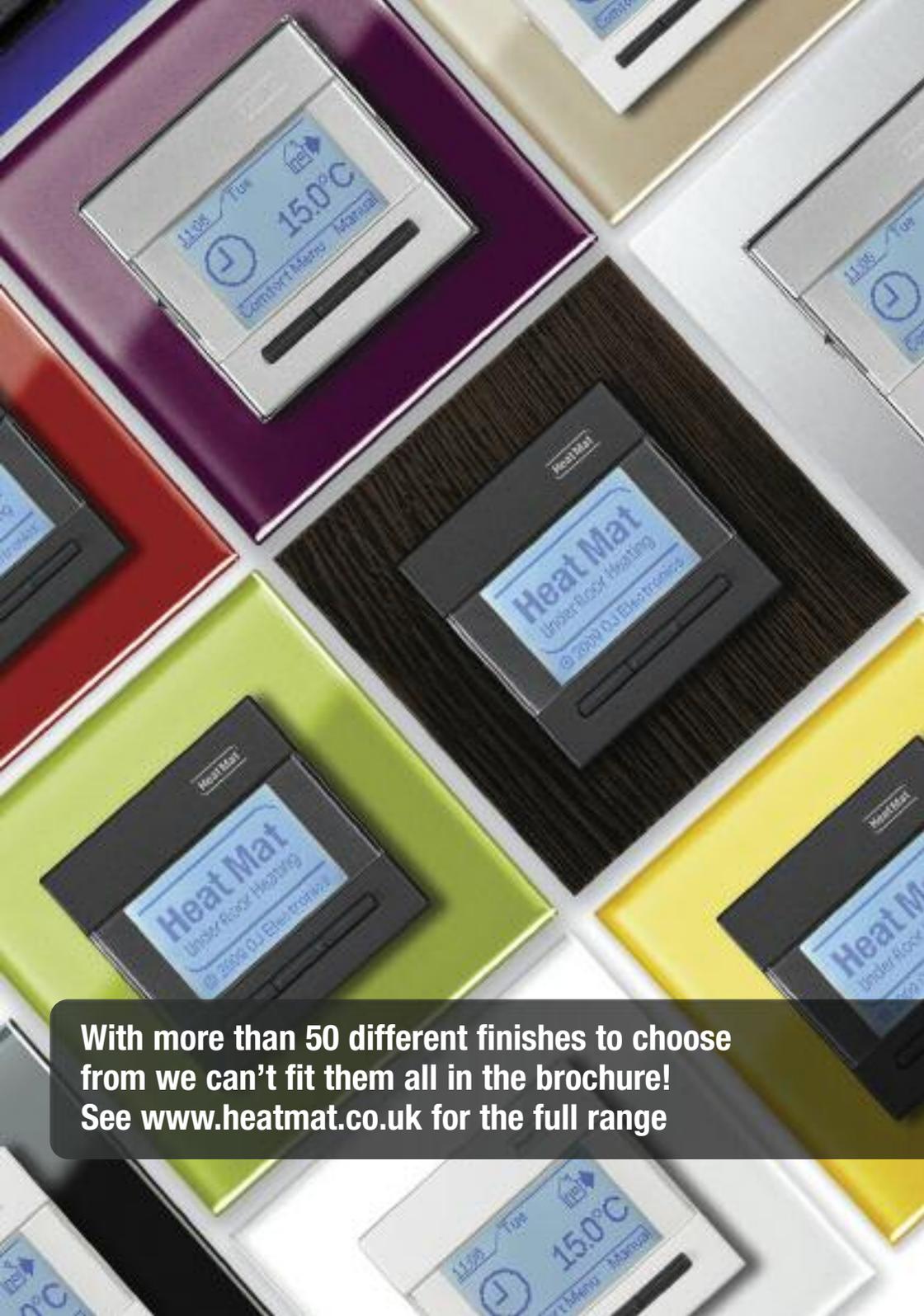
**3 year peace of
mind warranty**

**Choice of GENUINE metal
and glass frames**

**Brushed aluminium, chrome
and brass frames available**

Black or White glass options

**8 brightly coloured plastic
frames also available**



**With more than 50 different finishes to choose from we can't fit them all in the brochure!
See www.heatmat.co.uk for the full range**

Frequently asked questions

How long will it take for the heating system to warm up?

The warm up time of a heating system will be dictated by the insulation used beneath it and the output of the system. In general, the better insulated the sub-floor, the faster the system will warm up. Systems insulated with Thermal Insulation Boards offer a very speedy warm up time of as little as 15 minutes, and un-insulated concrete offers the slowest warm up time. Using a 200W system beneath ceramic/stone tiles provides a faster warm up time than 150W or 160W systems. We recommend using Thermal Insulation Boards wherever practical when installing our systems especially onto concrete floors.

How much will it cost to run?

The cost of running your system is based around many different factors so it is hard to generalise. When our systems are used in well insulated internal rooms we would expect them to cost up to £9.72/€14.68 to run per square meter per annum, and in conservatories up to £14.16/€21.32 per annum. This should be more efficient than any other electric form of heating and will often be cheaper than a radiator system.

These costs are based on a unit price of electricity of 12p in the UK and 18.2€cents in Ireland. Both examples assume rooms insulated up to the current building regulations, that the systems are laid directly onto suitable insulation and controlled by our NGT thermostat set to 20 degrees. The first example assumes a 200W/sqm system heating the room for 135 days per annum, ten hours a day and supplying power 30% of the time. The conservatory example assumes a 200W/sqm system heating the room for 210 days a year, eight hours a day and supplying power 35% of the time.

The only things which significantly affect the cost of running one system compared to another are the insulation used beneath the system, the output of the system and the use of an intelligent thermostat. In general, the better the insulation used beneath

it (and in the room), and the higher the output of the system, the cheaper it will be to run provided it is used with an intelligent thermostat like Heat Mat's NGT thermostat/timer.

What does a BEAB system approval mean?

Unlike CE marking, which is a non-independent self-certificate, BEAB system approvals are completely independent. A system approval, such as Heat Mat have on their heating mats, means that BEAB (the British Electrotechnical Approvals Board) have independently verified and tested the heating mats with Heat Mat's thermostats and they have confirmed that the system is safe and suitable for use as underfloor heating and that it complies with all necessary legislation. All of our heating mats, cables and thermostats are manufactured in BEAB approved factories and are BEAB approved.

Which is more expensive to run, 160W or 200W heating mats?

If the system is used with the thermostats adaptive function switched on then the 200W system will be slightly cheaper to use than the 160W system. This is due to the warm up time of the 200W system being slightly faster.

Does each room require its own thermostat?

We would recommend that each room has its own heating system controlled by its own thermostat. This will allow for simpler and more accurate temperature control of each room and will avoid heating rooms which do not require it.

Can I tile straight onto heating mats and 3mm cables?

Yes you can tile straight onto heating mats and 3mm cables as long as you use a flexible tile adhesive and ensure that all of the heating cables are thoroughly covered. When installing a system in this way the tiler should take particular care not to damage the heating cable when cleaning out grout lines.

160w/m² Heating Mats details

160 W/m² Technical Specification

| Product Code | Size in m ² | Length in Metres | Width in Metres | Wattage | Resistance |
|--------------|------------------------|------------------|-----------------|---------|------------|
| PKM-160-0110 | 1.1 m ² | 2.2 m | 0.5 m | 179 W | 315 Ω |
| PKM-160-0150 | 1.5 m ² | 3.0 m | 0.5 m | 245 W | 240 Ω |
| PKM-160-0200 | 2.0 m ² | 4.0 m | 0.5 m | 327 W | 166 Ω |
| PKM-160-0230 | 2.3 m ² | 4.6 m | 0.5 m | 380 W | 155 Ω |
| PKM-160-0280 | 2.8 m ² | 5.6 m | 0.5 m | 457 W | 132 Ω |
| PKM-160-0310 | 3.1 m ² | 6.2 m | 0.5 m | 509 W | 116 Ω |
| PKM-160-0370 | 3.7 m ² | 7.4 m | 0.5 m | 601 W | 97 Ω |
| PKM-160-0440 | 4.4 m ² | 8.8 m | 0.5 m | 720 W | 82 Ω |
| PKM-160-0520 | 5.2 m ² | 10.4 m | 0.5 m | 854 W | 68 Ω |
| PKM-160-0620 | 6.2 m ² | 12.4 m | 0.5 m | 1040 W | 58 Ω |
| PKM-160-0680 | 6.8 m ² | 13.6 m | 0.5 m | 1113 W | 52 Ω |
| PKM-160-0770 | 7.7 m ² | 15.4 m | 0.5 m | 1275 W | 43 Ω |
| PKM-160-0870 | 8.7 m ² | 17.4 m | 0.5 m | 1439 W | 40 Ω |
| PKM-160-1040 | 10.4 m ² | 20.8 m | 0.5 m | 1700 W | 34 Ω |

FlexHeat Cable details

Choose the right FlexHeat system by floor area

| Floor area to be heated | FlexHeat Cables Required | Total Wattage | Total Amps |
|----------------------------|--------------------------|---------------|------------|
| 1.0 to 1.5m ² | FLX200 | 200W | 0.87A |
| 1.6 to 2.2m ² | FLX300 | 300W | 1.30A |
| 2.3 to 3.0m ² | FLX400 | 400W | 1.74A |
| 3.1 to 4.4m ² | FLX600 | 600W | 2.61A |
| 4.5 to 5.9m ² | FLX800 | 800W | 3.48A |
| 6.0 to 6.9m ² | FLX1000 | 1000W | 4.35A |
| 7.0 to 8.4m ² | 2 X FLX600 | 1200W | 5.22A |
| 8.5 to 9.9m ² | FLX1400 | 1400W | 6.09A |
| 10.0 to 11.4m ² | FLX1600 | 1600W | 6.96A |
| 11.5 to 12.9m ² | FLX1000 + FLX800 | 1800W | 7.83A |
| 13.0 to 14.4m ² | 2 X FLX1000 | 2000W | 8.70A |
| 14.5 to 15.9m ² | FLX1400 + FLX800 | 2200W | 9.57A |
| 16.0 to 17.4m ² | FLX1400 + FLX1000 | 2400W | 10.43A |
| 17.5 to 18.9m ² | FLX1600 + FLX1000 | 2600W | 11.30A |
| 19.0 to 20.4m ² | 2 X FLX1400 | 2800W | 12.17A |
| 20.5 to 21.8m ² | FLX1600 + FLX1400 | 3000W | 13.04A |
| 21.9 to 23.1m ² | 2 X FLX1600 | 3200W | 13.91A |
| 23.2 to 24.2m ² | 2 X FLX1400 + FLX600 | 3400W | 14.78A |
| 24.3 to 26.0m ² | 2 X FLX1400 + FLX800 | 3600W | 15.65A |

Please note, the above recommendations are for well insulated rooms. For badly insulated rooms/floors we recommend installing Heat Mat thermal insulation boards onto the floor and using a system with an output above 190W per square meter of floor area.

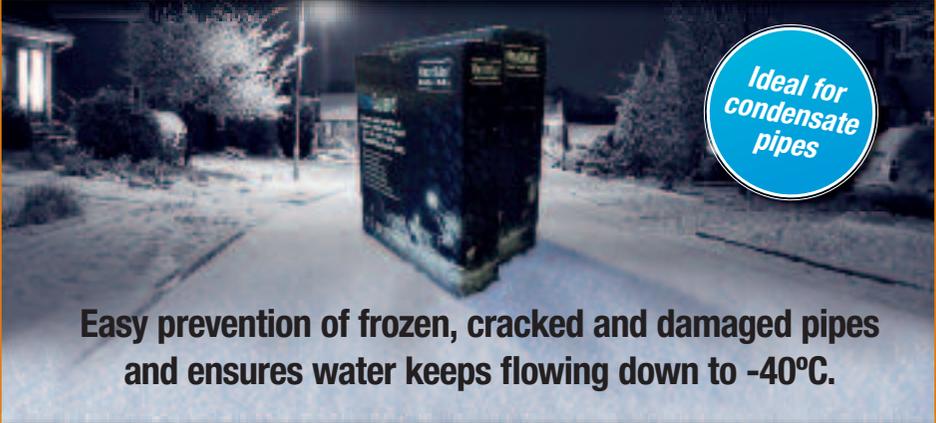
Call 01444 247020 to speak to an advisor

Heat Mat Accessories

Heat Mat
Ice & Snow Systems

PipeGuard

PipeGuard Standard and Self-regulating Cables



Easy prevention of frozen, cracked and damaged pipes and ensures water keeps flowing down to -40°C .

Available in eight different sizes



Mirror Heat

Mirror Heat pads ensure your mirror remains condensation free after bathing or showering.

- Simple and inexpensive to install
- Always clear for shaving or applying makeup
- Available in eight different sizes

Heat Mat
Underfloor Heating

Telephone: 01444 247020
Website: www.heatmat.co.uk

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Please be environmentally considerate and if you no longer need this brochure either pass it on to someone who does or recycle it.

