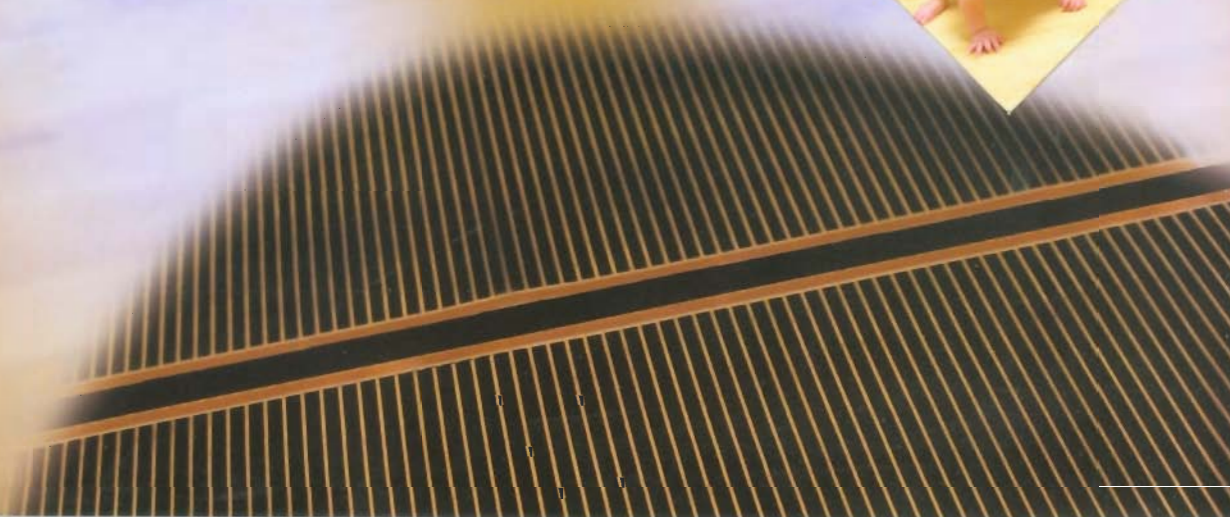




Floor Heating Systems

Heating Solutions For Contemporary Living



It has taken underfloor heating a very long time to become truly established in the UK, first introduced by the Romans some two thousand years ago, it is now the most popular form of heating in many European countries, especially Scandinavia.

Many people in the UK are now realising the benefits of an invisible floor heating system. Comfortable evenly distributed heating, less draughts & a much more pleasant feeling of warmth. Modern electric systems combined with good insulation can now provide energy efficient radiant heat resulting in more comfortable heating & lower heat loss than traditional radiator & other convection heating systems.

Floor Heating Systems supply an unrivalled range of high quality electric underfloor heating solutions, installation is suited to all room types & most floor coverings. Our systems can be used to heat a single room or conservatory, through to a complete dwelling or commercial building. The major benefit of our most popular systems being the low build-in height, which in most cases is just a few millimetres. This usually results in not having to take up the existing sub-floor making our systems especially suitable for all types of renovations & refurbishments as well as new builds

So if you are considering underfloor heating for a bathroom, kitchen or conservatory, or perhaps for a complete dwelling, commercial building or office, please contact us for further advice & a free quotation. Whatever your application we are confident that we will have a simple & cost effective heating solution for you.

Which System?

HEATING CABLES:

3mm Heating cables, ideal for installation beneath tiles or in a thin screed

3mm self-adhesive cable mat installed beneath tiles or a thin screed.

7mm heavy duty cables for installation in concrete slab or under thick stone tiles/flagstones.

CARBON MATS:

Designed for installation beneath wood or laminate floors

in

WE ALSO SUPPLY:- BATHROOM MIRROR DEMISTERS, CARPET HEATING MATS & ELECTRIC



roduction

MARBLE RADIATORS WHICH ARE A STYLISH ALTERNATIVE TO STORAGE & ELECTRIC WALL HEATERS



CABLE HEATING

There are 3 main systems available, all of which house twin conductor heating elements, which result in extremely low electromagnetic fields & mean that they only have to be connected from one end.

3MM CABLE KIT

Our popular 3mm cable kit is rated at 10 watts per linear metre & is usually installed within the tile adhesive or in a thin levelling screed on top of the existing sub-floor. By spacing the cables at 6cms apart it will give approx 160 watts per sqm, which is usually sufficient to provide the main heat source in most applications. The system can also be used in combination with other heating systems where the requirement is simply to warm a cold stone or tiled floor. Used with good levels of floor insulation this cable gives good warm up times and is fully controllable by means of the digital thermostat with built in 7 day 24 hour timer which is supplied with up to 4 on/off settings per day.

Each cable is supplied with a special connection already made to the 'cold' cable, which connects to the thermostat, also included in the kit is a floor primer, adhesive tape, digital thermostat, floor sensor, full instructions, technical help line & a ten year warranty! This system is suitable for both wood & concrete sub-floors & is usually installed directly beneath

ALL 3 SYSTEMS ARE SUPPLIED AS A COMPLETE KIT FOR SIMPLE INSTALLATION INCLUDING

FOR TILED AND STONE FLOOR



HEATING SYSTEMS

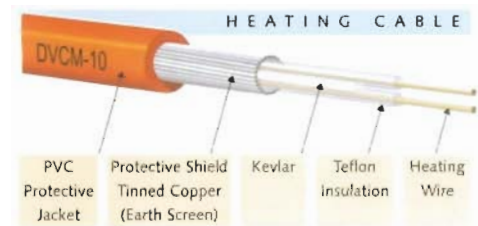
tiles, it can also be covered with a screed and used below vinyl, and low tog value carpets etc. The kits are supplied in a variety of sizes to cover individual room sizes from 1-24 sqm.

3MM CABLE MAT

The cable mat uses the same high quality 3mm heating cable described above, but it comes pre-woven on to a mat which has a self adhesive permanently 'tacky' surface which means it will simply stick to a clean dry or primed floor. This feature makes it probably the easiest mat to install available today. The mat comes in 50cms widths & a variety of different lengths to suit most room sizes. It can be cut and turned to fit into most regular shaped square/rectangular rooms & two or more mats can be joined together for larger areas.

3MM HEAVY DUTY CABLE

Our heavy-duty cable is designed for use within a new concrete screed or directly below thick stone tiles and flagstones. The minimum installation depth for even heat distribution is 3-5cms (including floor covering) making it ideal for new buildings, extensions and conservatories where frequent regular use is anticipated.



OUR ADVANCED ENERGY SAVING DIGITAL THERMOSTAT WITH BUILT IN 7 DAY / 24 HOUR TIMER



R B O N M A T S Y S T E M

O R W O O D & L A M I N A T E F L O O R S

Our carbon mat system is specifically designed to provide uniform heat distribution, making it ideal for use directly beneath wood & laminate floors.

It is usually fitted in combination with our special Depron insulation beneath a floating floor using a dry installation method as shown by the photograph opposite. Using this 'dry' installation method means that installation is very simple and that most laminate and engineered hardwood floors are suitable. For Hardwood floors, advice should be sought from the supplier to ensure its suitability for use with underfloor heating.



Again the system can be used in most situations as the primary heating source, or alternatively to provide secondary heating or simply to comfort warm cold floors.

Its unique double laminated design means that the element itself is less than half a millimetre thick & yet is extremely durable & robust.

Installed directly below the floor surface it provides a fast direct acting heating system without affecting the floor height., Combined with our Depron insulation & installed beneath a thin wood or standard laminate floor, it will usually start to warm an average room in around 30 minutes!

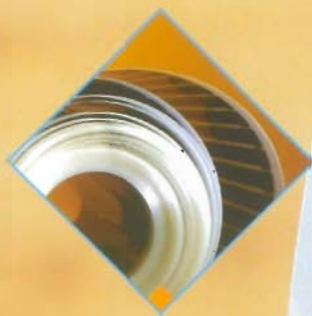
Control of the heating system is by the same energy saving programmable thermostats as used with the cable systems, allowing the user full control over both the floor & room temperature.

No other electric system is easier to install or gives a faster reaction time beneath a wood or laminate floor.

The system is usually supplied in a kit form, which includes everything you need for the simple installation: Individually labelled carbon heating elements complete with the 'cold cable' connections, factory made & resistance tested, Depron insulation, moisture barrier, digital fully programmable thermostat with built in timer, cable connectors, individual floor plan with element layout & full installation instructions.

F O R F A S T D I R E C T A C T I N G H E A T I N G

CARBON MAT SYSTEM



VOLTAGE 230 MARK 4
LITS/MT² 130 TYPE C 500

MAXIMUM
530 80°C 10AMPS

CE CODE E21AIGG



YOU MAY WANT TO



INSULATION

In order to maximise the efficiency of any heating system, insulation plays an important role - this is especially important when considering low temperature floor heating.

Where new floors are being constructed in new buildings or conservatories, good quality insulation should be incorporated at the design stage.

As a direct result of the new building regulations there is now a wide choice of high quality materials available from a variety of manufacturers.

However the problem comes when electric underfloor heating is being installed in an existing building where taking up an un-insulated floor is often not a practical option.

The most efficient way to insulate an existing sub-floor is by fitting insulation boards directly to the sub-floor.

insulation

FOR FURTHER INFORMATION ABOUT INSULATION & TECHNICAL DETAILS

MARMOX BOARDS

Existing wood or concrete floors which are to be tiled or have a screed poured over will require constructional strength insulation boards. There are several types on the market but we recommend and supply Marmox insulation boards.

Marmox boards are available in a standard easy to handle size 1250 x 600mm & in a variety of thickness' from 10 - 50mm. Using even the thin 10mm boards directly below the tiles can dramatically reduce the warm-up times required. For an un-insulated concrete sub-floor, this could reduce the warm-up time from several hours to under an hour!

Installation is very simple, on a concrete floor they are fixed with ordinary tile adhesive & on a wooden sub-floor they are screwed to the floor using flat-headed screws or washers.

TECHNICAL DETAILS :

Insulating effect: Thermal conductivity 0.027 w/mK

Typical U-values: 10mm boards 2.7w/m2K

50mm boards 0.54w/m2K

Description: High performance glass mesh reinforced waterproof insulating board.

EPRON

Insulating beneath a new wood or laminate 'floating' floor is even easier, by using 6mm Depron in either a single or double layer (where floor height permits) a much greater efficiency is achieved.

ADVANTAGES OF DEPRON :

Thermal conductivity 0.030w/mK

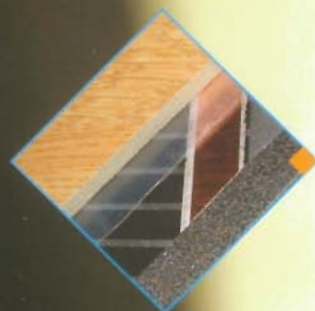
Increased step sound damping

Moisture resistant

Will not rot or decompose

Sheet size 1250 x 800mm

Available in 3mm and 6mm thickness





HERMOSTATI HEATING CONTROLLERS

In order to allow the user complete control over their chosen heating system, we supply a range of modern thermostats complete with floor sensors which constantly measure the floor temperature.

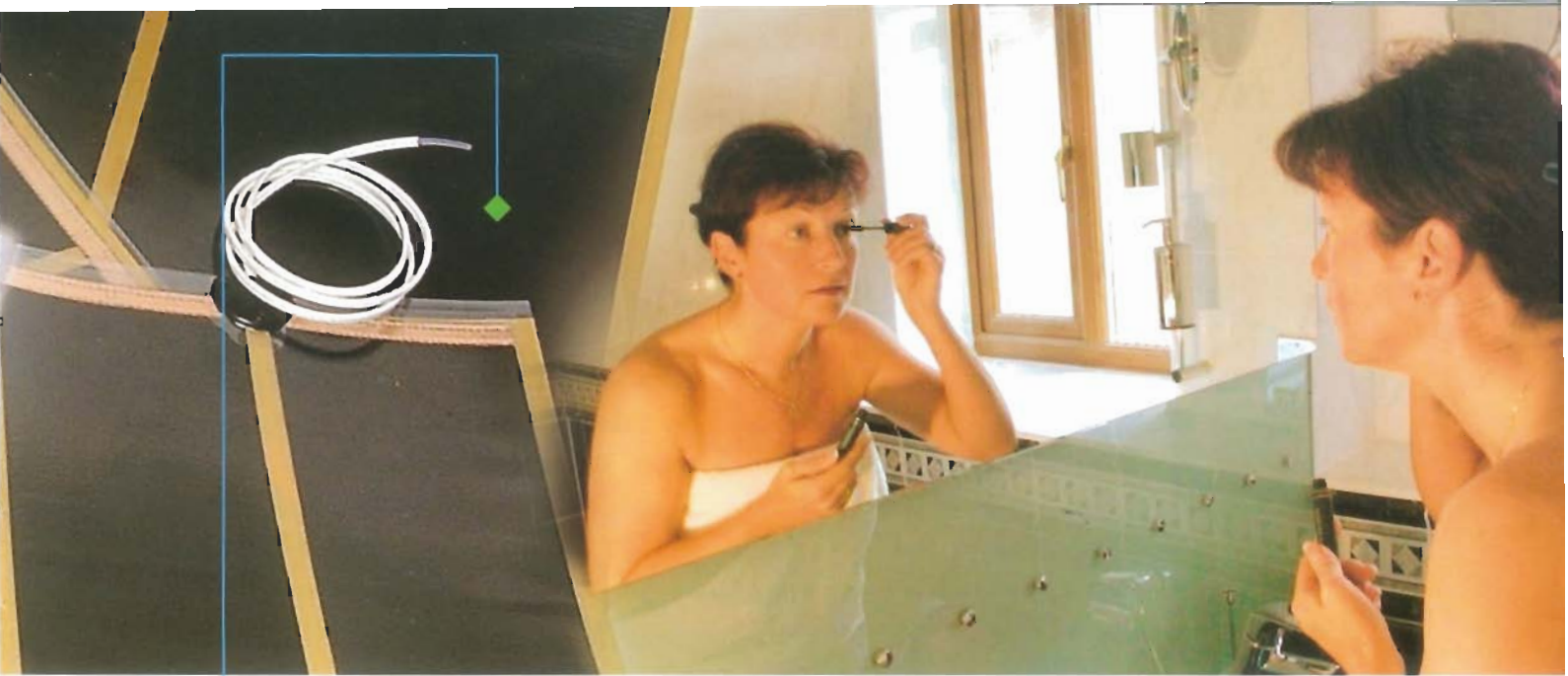
The most popular in the range is our digital thermostat with a built in 7 day/24 hour timer which has up to 4 settings per day. This thermostat gives the heating system the flexibility to adapt to the modern lifestyle

DIGITAL THERMOSTAT ADVANTAGES :

- Built in energy saving functions
- Built in 7 day/24 hour timer and 2 on & 2 off settings per day
- Simple to programme
- 16 amp rating (3.6kw)
- Setback & vacation functions
- Power failure battery back up
- Available with floor sensor or air sensor with floor limit

Also available, a standard simple to use analogue thermostat with manual on/off & temperature control.

FLEXIBILITY TO ADAPT TO THE MODERN LIFESTYLE



MIRROR DEMISTERS

The simple solution to the problem of misted up mirrors, no longer do you have to wait for the mist to clear before shaving, drying your hair or putting on make up. By applying one of our ultra-thin demister pads misted mirrors are a thing of the past. Connection is via the lighting circuit or separate switch & running costs are negligible. A typical 50 watt pad costing as little as 2 pence per week based on using it for an hour a day.

The mirror demister comes with its own self adhesive backing making it very easy to attach to the back of the mirror. The wires are then simply connected via the lighting or extractor circuit.

ADVANTAGES :	TECHNICAL INFORMATION :
Manufactured in the UK	Country of Manufacture - United Kingdom
Economical to run	Material Carbon enriched polyethylene
Ultra thin	Supply 240 volts
5 Year warranty	
Maintenance free	

The mirror demisters are available from stock in 4 standard sizes as indicated below, other sizes are available by special order.

SIZE :	OUTPUT :
274 x 274 mm	15 watts
574 x 274 mm	30 watts
524 x 524 mm	55 watts
1024 x 524 mm	105 watts

FOR FURTHER INFORMATION CONTACT FLOOR HEATING SYSTEMS

Floor Heating Systems Ltd - Specialist suppliers of electric floor heating systems, direct to the public & to the trade.
Next day delivery on most products from our extensive stocks.

OUR PRODUCTS INCLUDE:

Cable kits & Cable mats	for installation beneath tiled floors
17 watt per metre cable	7mm cable for installation within a new screed
Carbon heating mat	installed directly beneath an wood or laminate floor
Carpet heating mats	adding extra warmth to carpeted rooms
Insulation	for optimum efficiency of the chosen heating system
Digital thermostats	for complete control & comfort
Mirror demisters	for permanent mist free mirrors
Marble radiators	a stylish alternative to storage heaters

OFFICES/SHOWROOM - 10 MINUTES FROM J27 M1

For further information about any of our products please visit our website or contact us at the address below:



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NOTTINGHAMSHIRE NG15 7SZ

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EMAIL: sales@floorheatingsystems.com

WEBSITE: www.floorheatingsystems.com

YOUR LOCAL RETAILER/INSTALLER