



Thermo-Floor

underfloor heating & cooling since 1986

Natural, comfortable warmth



What will floor heating bring you?

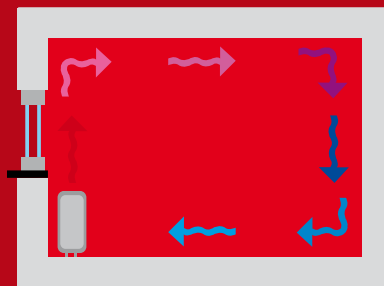


Comfort

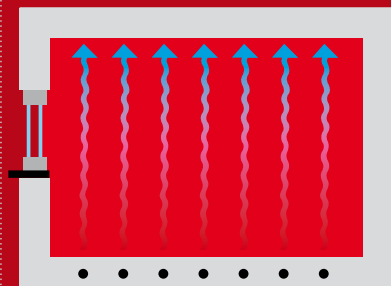
Floor heating uses radiant heat, allowing you to experience warmth at a lower air temperature. This has a very positive effect on the relative humidity of the room, making it feel much more comfortable than when using radiator or air heating. But that's not the only reason why floor heating is the most comfortable form of heating. Floor heating heats your entire floor evenly. A cold draught blowing across the floor is now a thing of the past. As a result, the room is heated much more evenly. In short: a warm head and cold feet are inconceivable with floor heating.

A lower energy bill

Floor heating is particularly energy-saving. It goes without saying that an air temperature that is a few degrees lower already has a positive effect on your energy bill. This even distribution of temperature and the lower water temperature will increase your energy efficiency, saving you up to 15% on your bills compared to other heating systems! All this without having to lose any comfort at all.



Radiator heating



Floor heating



Complete freedom of design

The entire heating installation is concealed in the floor. You do not have to bother with inconvenient radiators and so you are completely free to design the room just as you like.

Better health

Airborne dust is also a thing of the past now because the air circulation associated with floor heating is minimal. No radiators means considerably fewer dust traps and the end of singed dust. This is a huge benefit for people with allergies or bronchitis.

Free cooling

Cool your house with the existing floor heating installation. This does require you to have cold water, but this is easy to provide through a cooling unit or the well of a heat pump. Using a heat pump, only the circulation pump needs to run, which means that you hardly incur any costs in cooling your floor.



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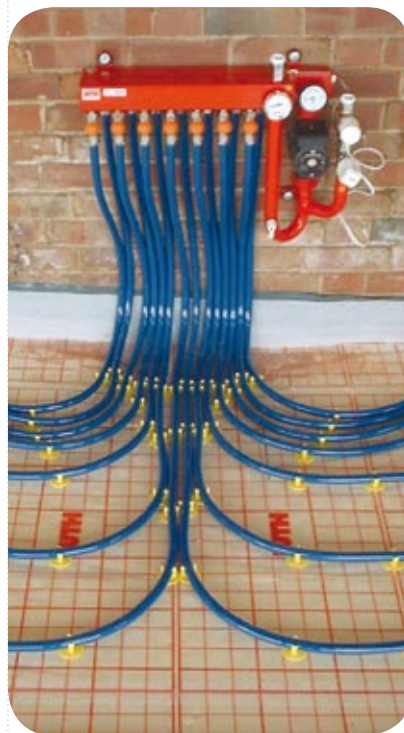
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Natural, comfortable warmth with underfloor heating

You can heat your house in many different ways. However, if you want comfortable, almost natural warmth in your home, choose floor heating. As leading company and specialist, Thermo-Floor and our parent WTH Floor Heating can be of tremendous service to you in this respect. We would be happy to use our thirty years of experience in floor heating on your behalf.

Choose the floor heating that suits you!



Main heating

Do you still have complete freedom to choose your source of heating? Then choose floor heating as your only source of heat. Radiators or other types of heating are unnecessary. Your floor already provides the required heating capacity and with the right adjustment of your clock thermostat, every room will have precisely the desired temperature at any given moment.

Additional heating

Is your proposed floor finish to be natural stone or quarry tiles? If you only have central heating, the cold stones may make you feel that the entire room is cold. If you use additional heating, you will be able to enjoy a warm floor temperature too.

Electric floor heating

Do you want to install a new tiled floor on top of an existing floor? Then consider Electrotherm. These special, extremely thin electrical heating mats allow you much more scope in smaller rooms, such as bathrooms and kitchens. Electrotherm is easy to install and can be installed directly under the tiles.



Free to choose the finish for your floor

With floor heating, you can choose any type of floor finishing that you like. However, the functioning of the system is based on thermal radiation and heat transference to the surface of the floor. Every floor covering has different thermal conduction, which is why you should take a few conditions into consideration.



Quarry tiles, regular tiles, screed and natural stone

Floor heating systems go perfectly with quarry tiles, regular tiles and natural stone. The tubes can be laid in the concrete/screed sub-layer. The tiles (ceramic, stone or quarry) are fixed on top of this layer. Be sure to use an adhesive that is suitable for floor heating.

Textile and nylon floor covering

You can, of course, use cotton, woollen or nylon floor covering, as long as the carpet's insulation value is not too high. Bear in mind that the carpet's fixed foam layer should not be thicker than 3 mm and the total thickness of the carpet should not exceed 10 mm.

Carpet floor covering

Do you prefer Lino or Marmoleum? No problem. Spread this floor covering over the dry floor structure. It can be laid loosely or glued down with self-curing glue. However, we would advise you to avoid carpet underlays and before you glue, it is a good idea to let the floor heating run for at least ten days so that moisture can evaporate from the sand cement screed.

Hardwood floors

Floor heating and wood are a stylish combination. Hardwoods such as oak, teak and Merbau (Indonesian hardwood) lend themselves perfectly to this. However, always enquire about the suitability of your wood floor in advance. After all, wood is still a natural product.

What should you take into consideration?

Always seek advice on floor finishes. Here are some points to note. Always have the sub-floor properly checked for strength, flatness, cracks and moisture content. The wood should not be nailed to the sub-floor. Use battens, interlocking boards or glue the wood to the sub-floor. Before you lay the floor, let the floor heating run for at least fourteen days, so that the sand cement screed is completely dry. Then turn off the floor heating for 24 hours before you lay the floor. If gluing let the glue layer dry for five to eight days after you have laid the wood floor. Then slowly start heating up the floor.





New houses and refurbishments

For houses and apartments

As the floors in newly built houses are properly insulated, it is possible to have the pipes installed directly into the structural floor. An extra layer of insulation between the structural floor and the screed need not be necessary.

Do you want to have floor heating in a newly built apartment? Depending on the construction, Thermo-Floor can offer you the acoustic insulation that you need.

Current building requirements dictate that the structurally borne sounds from your neighbour's property will not enter your home.

Renovating Your home

When refurbishing your home, different aspects play a role. In general, the floor is not insulated. If major renovation is being carried out the insulation can be incorporated, together with the underfloor heating, in the replacement construction.

Alternative ways of installing systems over existing floors exist - these should be discussed with your installer.

If there is insufficient load-bearing capacity, an IFD floor is the solution. With an IFD floor, the pipes are installed in grooves in the insulation. This requires thermal conduction plates to enable proper heat transference. All in all, the IFD system is characterised by a low weight and a low construction height.



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Easy to install

The floor heating systems consist of three important components. These are the distribution unit, also called the manifold, the pipe with mounting materials and the floor heating controls.

Installation during construction

Assembly of the system is easiest when the house is being built. The pipes are mounted on insulation on the structural floor before the screed is installed. Brackets/Clips keep the pipes in their place. After the sand cement screed has been poured, quarry tiles or other floor coverings can be laid.



Installation in existing homes

Assembly at a later stage of the construction or in existing homes is no problem either. If floor boards are present these can be lifted and an underfloor heating system installed before re-laying new floor finishes. Where screeded floors are involved these can either be over-laid or broken up for new floor structures to be installed and incorporating the underfloor system at the same time.

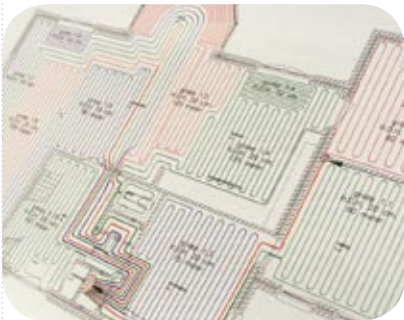


Warmth from the wall

You can also opt for wall heating. It goes without saying that the pipes will, in that case, be installed in the walls. Wall heating offers you the same advantages that floor heating gives you in terms of comfort and saving energy. The big difference with wall heating is that the pipes are situated much closer to the wall's surface. As a result, the heating responds much quicker.

You can finish or have your walls finished in the usual way with wallpaper or paint. The wall heating pipes are usually installed in bricks or sand-lime blocks that have been fitted with trenches especially for this purpose. Finally, you can also combine wall and floor heating. In doing so, you can have a very low level of temperature and a very high level of comfort.





Comfort in winter and summer

Because of the increasingly warm summers and improved insulation, the temperature in your home keeps on rising. Wouldn't it be perfect to cool your home in a really easy way? This is possible with your current floor heating system. Compared to an air-conditioning system, it offers lots of advantages. For example, cooling with your current floor heating installation is much cheaper and healthier. As well as having all the advantages of floor heating, you can also create a pleasant indoor climate all year round.

Your warranty

Your floor heating pipe is covered by no less than **fifty years** of warranty, **ten years of consequential loss warranty**, a five-year system warranty and two years of warranty on the fittings of the manifold. We even give you an **unlimited warranty on our calculations and designs**. WTH is ISO 9001-certified and our floor and wall heating system has KIWA/KOMO-quality approval under numbers K11399/01 and K11400/01 (the Dutch equivalent to British Board of Agreement approval).

An offer without any obligation

Thermo-Floor would be happy to provide you with a no-obligation quote. Just send us the Plans and Elevations of your construction drawings. If you subsequently choose our system, we will make an installation drawing for you, free of charge. Our own or specially selected dealers deliver our materials and will provide advice. For "self-installers" there is a technical help line available during working hours.

You now have a general idea about all the various possibilities floor heating can offer you. Thermo-Floor hopes that we can be of service to you in the near future. Do you want to know more about a specific subject? On our website, www.thermo-floor.co.uk you can find detailed information about every topic. But, of course, you are very welcome to get in touch with us too.

Your comfort, our mission!

Thermo-Floor and WTH Floor Heating are leading suppliers of floor and wall systems for heating and cooling. For over thirty years, in homes and industrial buildings, we have successfully developed, produced and sold high-quality systems ensuring low energy consumption and maximum comfort.



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Head Office - Thermo-Floor Ltd.
Unit 1, Babsham Farm
Chichester Road
Bognor Regis
West Sussex
PO21 5EL

Tel : +44 (0) 1243 - 822058
Fax : +44 (0) 1243 - 860379
Mail : sales@thermo-floor.co.uk
Web : www.thermo-floor.co.uk