

**Nu-Heat**  
Feel the difference

**5**

**must ask questions**

when considering UFH in your home



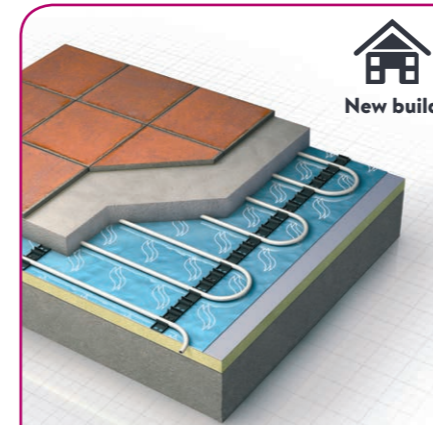
# 01

## What type of UFH system will I need?

### There are two main types of UFH systems: warm water and electric.

Warm water systems are suitable for virtually any space and any area. Heated water is pumped around the property via a series of pipes, in a similar way to traditional central heating systems. They offer higher heat outputs than electric systems, making them better suited to larger areas or properties with lower levels of insulation. More energy efficient than radiator systems – particularly when paired with a renewable option such as a heat pump – warm water UFH can completely remove the need for traditional radiators in your home.

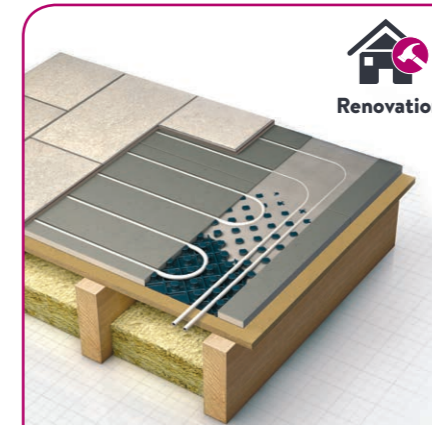
Electric underfloor heating consists of a system of cables which are laid over the floor deck and connected up to a thermostat. Perfect for smaller areas such as bathrooms and en-suites, electric UFH heats up quickly, but also loses heat faster than warm water UFH, making it a less attractive solution for larger or frequently used living spaces.



### UFH for new builds and extensions

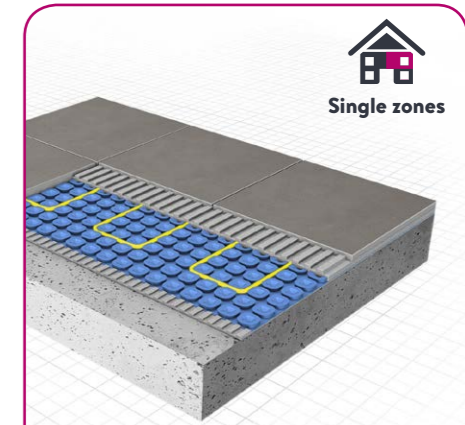
Screed UFH is a popular and cost-effective choice for new build properties and extensions, where the UFH tube is held within a layer of screed in the new floor.

Upper floors can benefit from warm water underfloor heating systems such as ClippaPlate®, where the UFH tube is fitted between, or over, the joists using a metal diffuser plate. These are either fitted from below, before the ceiling is in place, or above, before the floor deck is fitted, adding no height to the floor level.



### Renovations

Low profile UFH systems, such as one from Nu-Heat's LoPro® range, are ideal for renovations. These super-slim solutions are laid directly over the existing floor, adding as little as 15mm total height build-up, and causing minimal disruption to fixtures and fittings. Ideal for older properties with lower levels of insulation, these higher heat output systems offer a great solution where UFH may not otherwise have been an option.



### Single zones

Electric UFH is perfect for smaller areas such as a single bathroom or kitchen, and can be used as an add-on to a larger warm water UFH system or as a standalone set up. It is cheaper to install than wet systems but also usually more expensive to run than wet UFH, due to the cost per unit difference between electricity and gas or oil.

# 02

## How will you design my UFH system so that my property won't feel too hot or too cold?

It is a common misconception that UFH does not need to be designed for new build properties, but this is not the case!

Regardless of the age of your property, your underfloor heating should be bespoke and tailored to your individual living environment for maximum efficiency and effectiveness. This will stop your home from feeling chilly in colder weather, or equally important, over-heating on sunnier days when the combined warmth of the sun and your UFH could push the temperature above the required level.

Nu-Heat's specialist in-house design software uses room-by-room heat-loss calculations to help the UFH achieve and maintain the right temperature in every part of your home.

### **We take into account:**

- The age and construction of your property;
- Your homes' insulation and glazing levels;
- The location and orientation of your property;
- Your chosen floor coverings;
- How you wish to use every area of your home.

All of this ensures that the every room is at just the right temperature, exactly when you want it to be. Even when it is -3 degrees outside, our designed UFH systems are guaranteed to heat every room to a toasty 21 degrees, helping you to stay warm and comfortable in your home, whatever the weather.



# 03

## Which floor coverings are suitable?

Almost any floor covering is suitable for pairing with UFH, and considering these early ensures that they can be factored into the design of your system.

### Stone and ceramic

The most efficient floor coverings for use with underfloor heating are hard surfaces such as stone and ceramic tiles. These are the most thermally conductive of all floor coverings, allowing the energy from the UFH heating tube to transfer quickly to the surface of the stone/tile.

Increasing the thickness of the tile will have little effect on the heat output, but it will slightly increase the heat up time.

We would always recommend using a de-coupling membrane and flexible adhesive with stone or ceramic floor finishes, as this reduces the potential for any hairline expansion cracks as the floor warms and cools.

### Timber

If you are hankering after a wooden floor, choose engineered timber for use with your UFH, as its structural stability allows it to perform well with fluctuating temperatures.

Solid hardwoods and soft woods also transfer heat well but take care when selecting the board width and thickness, as some can warp under temperature. Parquet is also suitable for use with underfloor heating, however do bear in mind that these floor blocks should be continuously glued onto the screed or timber deck for good heat transfer.

It is always best to use a kiln-dried timber with minimum moisture content, storing it in a dry place before installation. We would also recommend fitting a floor temperature sensor to protect these more sensitive floor coverings.



### Laminates and vinyl

Laminates, vinyl and vinyl floor tiles (such as Karndean and Amtico) are a practical, popular and highly versatile choice, however it's important to check the manufacturer's recommended maximum floor surface temperature (usually 27 degrees) to ensure that the covering is suitable for use with underfloor heating.

For any sensitive floor coverings, or where a system with a high heat output is being installed, fitting a floor temperature sensor will limit the heat output from the floor and protect the flooring against warping or discolouration.

### Carpet

Carpet is a popular floor covering choice for bedrooms and is perfectly compatible with underfloor heating as long as the combined tog rating of the carpet and underlay is no more than 2.5. Avoid anything thicker than this as it will act as an insulator and stop sufficient heat reaching the room.

# 04

## How will I be able to control the UFH to fit in with my lifestyle?

It is easy to create and maintain a comfortable and efficient indoor environment that puts you in control. Nu-Heat offers a range of thermostats to suit every home, from simple to use dial thermostats to smart control and home automation enabled wired or wireless solutions.

A traditional dial thermostat with timeclock and setback facility provides a stylish yet straightforward method of control, allowing you to set basic heating schedules and switch to holiday mode when you are going away.

Programmable thermostats offer more flexible levels of control, enabling you to set individual time and temperature schedules

for each room or zone of your property. This means you can have the heating and temperature set to come on at different times in different rooms depending on use, i.e. you might want a living room to be heated in the morning but the dining room to only be heated in the evening, and a guest room to only be heated occasionally.

Nu-Heat also offers a range of wired or wireless thermostat options with smart control, giving you instant control of your heating from anywhere with an internet connection. Perfect for last minute changes of plan or checking your heating schedule while you are away, being able to check, set

and adjust your heating from your mobile or tablet puts you firmly in control.

Intelligent options such as geolocation, even make it possible for your heating to be triggered to come on as you approach home, and switch off as the last person leaves the house, meaning your UFH is only running when needed.

Any Nu-Heat underfloor heating system with a neoHub+ smart package is also compatible with Apple HomeKit and Amazon Alexa home automation technology, an easy, secure way to control your home's lights, doors, thermostats and more from your mobile or tablet.

**Dial thermostat with timeclock**

**Programmable thermostats**

**Smart control**

amazon alexa

Works with Apple HomeKit

neoHub+



# 05

## What will I get for the money?

When you purchase your UFH from Nu-Heat you get more than just a heating system that delivers its promises. We're committed to designing bespoke systems that perform, and by sticking to our core values of integrity, diligence, empowerment and nurture, we're now the UK's largest supplier of warm water underfloor heating and renewable solutions.



### Supporting you through the build and beyond

Your UFH system comes with a lifetime of support as standard. Whether that's helping you to choose the right UFH system for your home, answering any questions your installer may have during installation, or supporting you with advice and guidance on setting up and using your heating system, we are always here to help.

### Long product warranties for peace of mind

We believe in our products, so we offer long guarantees to give you complete peace of mind. All of our designed UFH systems are backed by Professional Indemnity Insurance, and we offer up to 50 years warranty on key UFH components.

Our UFH systems also comply with the following industry standards:

- BS EN 1264 – Floor heating systems & components (BSRIA Design Guide);
- BS EN 12831 – Heating Systems in Buildings;
- Building Regulations (Parts L, E, F) and Renewable legislation;
- Acoustic testing on timber/screed intermediate floors: SRL C/04/SL/3123/1.

### Award-winning customer service

As the only company in the heating industry to be awarded a distinction from the Institute of Customer Service (ICS), you can trust us to provide you with the support you need. Get in touch to find out how you could feel the difference with a Nu-Heat underfloor heating system and our award-winning customer service.

# Nu-Heat

Feel the difference



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