

# UNDERFLOOR HEATING

## Design Experience

For nearly twenty years, IHS has been at the forefront of the underfloor heating market in the UK. We've designed, supplied and installed systems for thousands of commercial and domestic customers throughout the country.

Every system is designed to suit our clients' exact requirements. IHS carry out in-house heat loss calculations and provide advice and solutions to ensure the most practical, energy efficient working system. For the DIY enthusiast, our technical support and detailed CAD drawings ensure successful installation every time.

## How Underfloor Heating Works

Warm water (35-70°C) from any heat source is circulated through a series of polyethylene pipes installed and integrated within the floor make-up. This pipe is connected to a centrally located distribution manifold. Individual rooms can be temperature-controlled as required via their own thermostat.

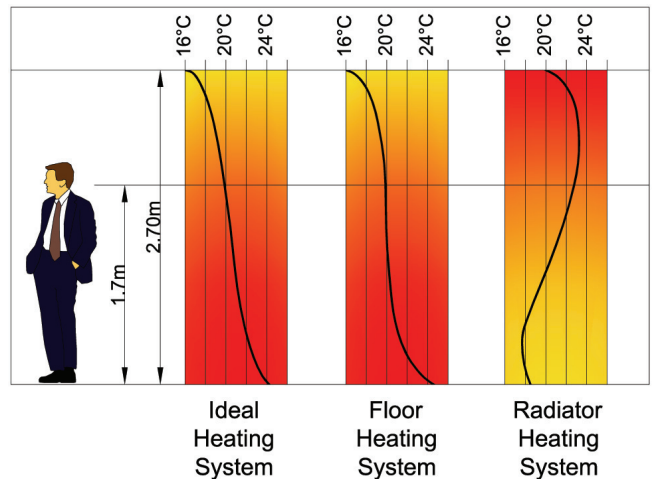
### Benefits

- Even temperature delivers high comfort levels
- Healthier Environment
  - No noise
  - No draughts
  - No dust circulation
  - Higher humidity – approx 12%
- Freedom for Innovative Interior Design
  - Additional wall space accessible
- Low Energy Consumption
- Low Maintenance



## Comfortable and Efficient

Each roomstat can be set up to 2°C lower than a room heated by radiators. This is because underfloor heating delivers 70% radiant heat and 30% convection heat whereas radiators emit 30% radiant heat and 70% convection heat. This creates a more comfortable overall living environment.



## Energy Efficient

Underfloor heating is a highly efficient method of heating any building. Because it uses lower temperatures, boiler efficiency is improved, fuel bills are reduced and the overall energy efficiency of your heating system is enhanced. Modern building methods and much improved insulation standards make underfloor heating an ideal combination with heat pumps which deliver lower temperatures.

## Floor Finishes and Coverings

Underfloor heating works with a wide range of floor coverings including timber floors, laminate, ceramic, stone and carpets. Full advice and guidance is available from our design team.

## Pipe and Manifolds

IHS flexible, five-layered polyethylene PE-RT pipe is extremely strong, heat and age-resistant and, due to its high flexibility, renowned for its ease of use. Our compact, compact plus and LT manifolds are available in sizes from one to twenty groups and are especially easy to install.



## Extension and Conservatory Kits

These kits are specially designed to link up to an existing heating system. Ideal for new extensions and conservatories, they're easy to install and are supplied with IHS compact manifold, pipe, fixings and roomstat. UK delivery is included. The kits are available in three kit choices.

### Kit 1

One-group system: 18m<sup>2</sup> with pipe at 150mm spacing or 24m<sup>2</sup> with pipe at 200mm spacing

### Kit 2

Two-group system: 36m<sup>2</sup> with pipe at 150mm spacing or 48m<sup>2</sup> with pipe at 200mm spacing

### Kit 3

Three-group system: 52m<sup>2</sup> with pipe at 150mm spacing or 70m<sup>2</sup> with pipe at 200mm spacing

## Installation Methods

Numerous methods of installing pipe into a floor make-up exist and IHS can provide detailed cross-sections to suit your particular requirements.

A unique CAD layout is supplied with every system we supply which clearly shows how the system should be installed. IHS also carry a variety of fixings and clips to hold the pipe until the floor has been screeded or fixed in place.

## SYSTEM GUARANTEE WITH CAD DESIGN

Every heating system designed by IHS is accompanied by a full colour CAD drawing with wiring diagrams and plumbing schematics to suit the appropriate boiler configuration. The CAD drawing is your system guarantee and our guarantee that you'll have an underfloor heating system that fully delivers on our promise.

