

“Reliable Family Run (Husband & Wife Formed)”

“Twice recommended by”Time Out” London in 2006”

“Finalist of the Training and Development Barking & Dagenham Business Awards 2008”

“Finalist of the “Best New Business” and “Entrepreneur of the year” Kingston Business Awards 2010”

Underfloor heating and cooling is a form of [central heating and cooling](#) which achieves [indoor climate control](#) for [thermal comfort](#) using [conduction](#)

,
[radiation](#)

and

[convection](#)

. The terms

radiant heating

and

[radiant cooling](#)

are commonly used to describe this approach because radiation is responsible for a significant portion of the resulting thermal comfort but this usage is technically correct only when radiation composes more than 50% of the heat exchanged between the floor and the rest of the space.

How does an Underfloor Heating System Work ?

These days, most underfloor heating systems are either warm water (**wet**) systems or electric (**dry**) systems.

For wet systems, pipes are buried in screed, or run underneath the floor surface. Wet underfloor heating systems operate by heat transferring from the water passing through the pipe directly into the floor. Because the whole area of the floor is warm, it heats the room more evenly.

Unlike radiators, underfloor heating systems do not need to run at high temperatures. Heat imparted to the floor is released across a large area rather than the relatively small and focussed area of a radiator. As such, UFH systems do not need to operate at such high temperatures.

Typically, the temperature of the water in an underfloor heating system pipe is 45 – 65°C (compare this to approximately 80

°

C flow and surface temperature of a radiator system) warming the floor to a temperature of 25 – 28

°

C, which is comfortable to walk on.

For Dry Systems, the principle is the same. The difference is that instead of imparting heat from water passing through a pipe, you use an electric heating element as the heat source.

Benefits of Having Underfloor Heating In Your House

- **COMFORT** - Underfloor heating heats from the floor upwards allowing an even distribution of heat and maximising comfort levels. Radiators only offer localised heat and normally need to run at a much higher temperature. Heat from radiators convects directly to ceiling level leaving the temperature at floor level much lower. A concentration of heat at head height can cause discomfort.
- **EASE OF CONTROL** - The smallest temperature difference between the floor and the air above means the system is easy to regulate. With individual room control being a common feature of underfloor heating systems, you can individually adjust temperature settings in each room of the house.
- **COST EFFECTIVENESS** - Underfloor heating can result in a 15-40% energy saving over traditional heating methods.
- **SPACE AND AESTHETICS** - By using underfloor heating you can gain more useable space when compared to traditional heating methods. With underfloor heating, wet floors dry quicker and the peeling of wallpaper and discolouration of paint is prevented.

- **SILENCE** - Compared with radiators, there is no noise with underfloor heating.
- **HYGIENE** - Underfloor Heating helps to reduce the number of dust mites in your home because moisture content levels are too low. This can aid sufferers of asthma and other breathing complications.

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Lloyd's of London -Billingsgate-docklands-Tower-of-London--Royal Exchange-Fenchurch
Street-Tower Hill-Monument-Lombard-Street-Fetter-Lane-Temple-Barbican-St
Luke's-EC3-Bunhill Fields-Islington-N1-Camden-Broadgate, St Bartholomew's Hospital, EC2
Finsbury (east) Moorfields Eye Hospital, St Luke's | Bunhill Fields, Shoreditch | shower fitters-
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EC2 Tower Hill, Tower of London, Monument EC2, Billingsgate, Royal Exchange, Lombard
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Hospital, Barbican EC3 , Leadenhall EC3, Lloyd's of London, Fenchurch Street, St Mary Axe,
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Camden , City of London, Camden , Islington, City of London, Great Ormond Street Hospital,

Gray's Inn-heating repairs-Western-Central-London-High-Holborn - Finsbury (west)-Lincoln's
Inn Fields-WC1-Royal Courts-of-Justice - Kings
Cross-Drury-Lane-Aldwych-Covent-Garden-WC2-W2
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, Bloomsbury, British Museum WC2 , University College London , Leicester
Square-St.Pancras-Great-Ormond-Street-Hospital, Gray's Inn , High Holborn, WC2
Westminster-London-city-Lincoln's-Inn-Fields-Kings-Cross- Royal Courts of Justice, WC2
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Charing-Cross- NW1-WC2-London-airport-Hayes