

# Heat your home from the floor up with JK Floorheating!

**J**K is an underfloor heating company and was founded in 1994. It is best known for its revolutionary installation method, which uses a unique floor grinding machine – the ‘JK floorgrinder’ – and a range of self-developed and manufactured underfloor heating products. Over the past twenty years, JK has acquired an incredible amount of knowledge on retro-fit underfloor heating systems and application methods.

JK partners with a wide variety of companies in order to assist the end-customer in all their needs. Heating-engineers, plumbers, underfloor heating companies, builders, flooring companies and also architects are all companies who sell, specify or recommend JK’s cutting solution for their particular projects. JK believes that working with companies adds value to their partners’ businesses because of the unique service and narrow focus of just providing the cutting system.

### JK in-ground UFH

JK’s in-ground UFH is a revolutionary underfloor heating system with no build-up height. The top screed is grooved using a specially designed and patented ‘JK floorgrinder’. The JK floorgrinder creates dust-free grooves in the screed into which the heating pipes are laid. JK’s in-ground warm water underfloor heating system goes into screed, concrete and dry-board, and is ideal for renovation and refurbishment projects.

### Zero build-up

A desirable feature of JK in-ground UFH is that it does not add any floor build-up and the new floor finish can be applied directly on top. Moreover, it is more comfortable and energy



efficient than traditional wet UFH systems, as the heating pipes are installed directly under the surface of the floor. This allows the floor temperature to rise much faster so the room temperature can be controlled more accurately than with traditional underfloor heating systems.

### Renovation, refurbishment and home improvement

Improving their home by installing an eco-friendly water underfloor heating system into an existing property is the goal for many, but it is often prevented by practicalities such as ceiling height, costs and construction issues. JK offers a unique retro-fit water underfloor heating system; unique because there is no floor build-up, quick installation and moreover the heating pipe is in the top screed of your floor construction; a guaranteed quick heat response.



### Floor insulation

The term insulation is often used once it comes to the renovation or improvement of a property. Insulation is connected with heating, efficiency, savings and eco-friendliness. Many people are concerned that they cannot have retro-fit underfloor heating because they’re not sure about the insulation of the floor construction. Many houses – most houses built before the 90s – do not have any insulation in the floor construction. The floor construction is often a concrete slab with screed on top. With this in mind, JK has designed a system (since 1994 in Germany and The Netherlands) which is especially suitable for this situation. The floor construction is accountable for about 10-15 per

Phase 1  
Phase 2  
Phase 3  
Phase 4



**System features:**

- Single heating system; the only and primary heat source
- Zero build-up; embedded 'into' screed floor
- Bespoke; custom floor cutting on site
- Efficient; uses very low water temperatures
- Eco-friendly; saves on your gas bill
- Affordable; no sub-floor work needed
- Quick; installations take one working day
- Dust free; channels are cut in without producing dust
- Responsive; feel the warmth within minutes
- One party; trained in-house engineers fit the entire system



cent of the total heat-loss, therefore the floor construction does lose some heat but it is recommended to improve the fabric of the elements in order to prevent heat loss. Furthermore, improving a floor construction is often complicated, expensive and causes floor height build-up.

**Case Study; Popes Farm**

Popes Farm is a great example of 'home-improvement' at its very best. This house is a well-presented Grade II Listed family home with good accommodation over three floors, however, solid floors and low ceilings did not allow any floor height build-up. JK's in-ground UFH system was the solution. It's the UK's only retro-fit system with no floor build-up but is also completely bespoke, installed by trained engineers with products which are tested and guaranteed up to 50 years.

**No radiators anymore**

The main living areas, all normal screed floor construction – are all fitted with underfloor heating. Radiators have been removed and the underfloor heating system is used as the primary heat source. Since the client was so happy with the bespoke, dustless, quick and professional solution, they also fitted the first floor with JK's UFH system. The first floor, a timber floor construction, was prepared with 23mm KNAUF

fiber floor boards (plain boards), where the JK Floorgrinder had created channels where the heating pipe was laid into. A solid floor finish – tiles – was applied directly on top of the UFH heating system by only using tile adhesive. The soft floor finished areas – carpet – were prepared with a latex self-levelling compound to backfill the channels, and the carpet was laid directly on top of that.

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