

Hydronic Floor Heating

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Hydronic Floor Heating Amuheat' Speedfit hydronic floor heating systems consists of water being pumped from a boiler to a pump pack, where it is mixed to approximately 50°C then distributed via a manifold to heating circuits made using Speedfit Barrier Pipe. The PEX pipe is laid in concrete or suspended just below the surface of the floor.

The Speedfit pipe has an inner barrier to prevent the ingress of atmosphere, and is lightweight and flexible making it especially suitable for hydronic floor heating installations. For screed systems, the pipe is attached directly to insulation with staples or floor clips.

A rare benefit of hydronic floor heating not common to any other heating system is that a variety of heating equipment can be used to heat the water: natural gas water heater or boiler, electric boiler, wood boiler, heat pump, solar collector or even geothermal energy. This allows homeowners the option of choosing the type that best fits their needs - and more importantly, can be upgraded or changed at a later time.

Hydronic floor heating systems can be designed and installed for both new homes and for renovations or extensions. There are many benefits to installing a radiant heating system, some of which include:

- It offers the most comfortable form of heating, with a good even distribution of warmth throughout the whole room.
 - Dust is minimised reducing the problem of house dust mites and reduced numbers of hot surfaces and sharp edges minimise risk of burns or injury.
 - Lower energy costs and lower heat losses from the building when the hydronic floor heating system is designed correctly to operate at lower temperatures than traditional heaters
 - The system is unobtrusive and space saving which means every square metre of floor and wall space can be fully utilised giving freedom of interior design
 - The Speedfit Underfloor Heating System is suitable for most floor finishes, including ceramic tiles, carpets, vinyl and laminate.
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Control options range from manual floor probe sensor thermostats to smart heating control systems. Modern homes installed with hydronic floor heating and smart heating controls are based around a wiring centre which has connections for the boiler, pump and thermostats. This allows the homeowner direct control of the floor heating systems from touchpad controllers, direct control from a PC, remote control from a PC via the internet or remote control via a text message from a mobile phone.

Amuheat are available to help you get the best from your Speedfit hydronic floor heating system. We offer a free design and quotation service, which will provide you detailed information and advice relevant to your floor heating project.

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