

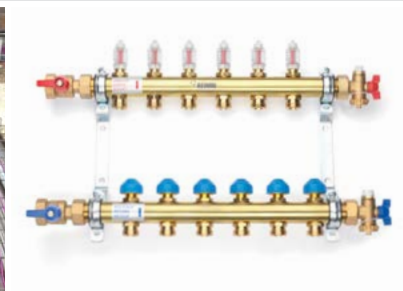


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FLOOR COILS

The most efficient, cost effective and discreet way to heat your home.



H₂O Heating are experts in all forms of underfloor heating systems; H₂O Heating are part of RAIN - the Rehau Approved Installer Network, accredited by Rehau for the design and installation of underfloor heating systems.

Whether your requirement is for a single room, extension or renovation, or a multi-million dollar architectural dream home - you can be confident the system H₂O Heating will design and install uses only the very best products from European manufacturers whose products are synonymous with quality.

The concept of underfloor heating is not new; first used by the Romans, a warm, gentle and sumptuous radiated heat is emitted from the floor warming the room. Under floor heating is ideal for homes where wall space is at a premium - such as large open plan living and rooms with high ceilings as the heat is distributed from the base.

UNDERFLOOR HEATING



Floor coils are particularly effective when coupled with a high efficiency condensing boiler due to the low return water temperatures; in fact under floor heating systems account for over 60% of the European market for these reasons. Floor coils systems, like other types of hydronic heating systems, can still offer flexibility and increased efficiency through being zoned thus offering a room by room controlled environment in your home. As the heat is emitted evenly throughout the room cold spots are eliminated, further adding to your comfort.

Floor coil systems work best in rooms with a concrete or tiled finish floor but in some circumstances can be used with timber or carpet (please consult your flooring specialist). A floor coil system can be mix and matched with standard and/or designer radiators adding to the flexibility of the system and making the design possibilities endless.

HOW A FLOOR COIL SYSTEM WORKS

Pipe work will be installed in a pre-determined circuit to give optimum performance. Warm water is circulated from the boiler which turns the entire floor into a big heating panel. Whilst the initial response time is longer the heat is evenly distributed as a comfortable warmth throughout the home.

A distribution header will be installed above floor level (it can be housed in cabinetry as long as accessible). There can be between 2 – 12 circuits of floor coil per header manifold but if more zones or coil circuits are required then more header manifolds can be used. It is sometimes necessary to use multiple manifolds where the floor level changes or a construction joint is to be installed into the floor slab.

Each floor coil circuit can be controlled by an on/off valve fitted to the header which allows for the control of which rooms are to be heated. If required, electronic actuators can be connected to individual thermostats to create multiple zones within the house, this allows for the temperature of each room or area to be set independently offering further savings on running costs by only heating the rooms you want to the temperature you desire.

TYPES OF FLOOR COIL SYSTEMS

There are essentially three types of under floor heating systems; which is the most suitable will depend on an individual client's requirements and needs. All underfloor heating systems provided by H₂O Heating are bespoke designed to suit the building and client's considerations.

In-Slab: An In-slab system is the most common. Pipework is fixed to a layer of reinforcing mesh in the concrete slab floor. A concrete cover of 50mm is then poured over the pipe; when operational, the hydronic boiler will supply water at 45-50° C through the pipework. The temperature may vary across the floor due to water flow temperature but this does not affect the room's air temperature.



Secondary Pour: Pipes are laid in a second stage concrete or screed pour on top of the constructional slab and are often installed using an insulated pipe positioning board. This system is not recommended for a polished screed finish due to the risk of cracking.



Diffusion Tray: A Diffusion Tray system allows underfloor heating to be installed into a suspended timber floor, where normally not possible. Diffusion Trays are installed between the floor joists at a set width, so careful planning is required.

For more information visit our website or contact one of our knowledgeable members of staff.



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