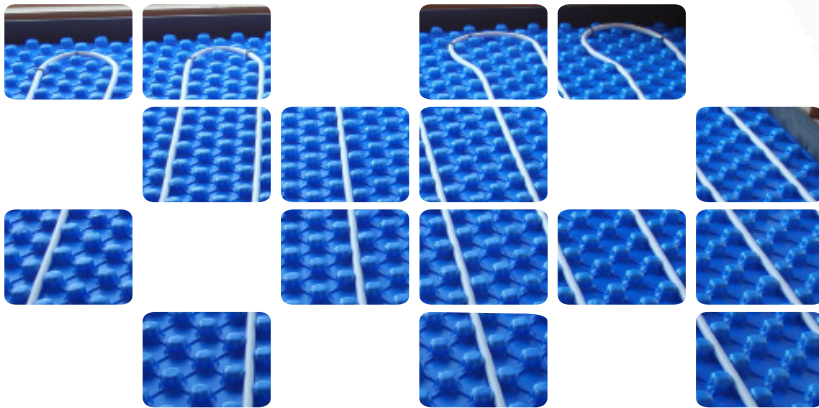


Hurlcon Underfloor Heating Solutions



putting
solutions
together...



oventrop

Comfort in your home...

Hurlcon underfloor heating systems are healthy, comfortable and energy efficient. Gentle radiant heat acts directly on the body without having to wait for the air to warm first, resulting in the same comfort level but with a 2°C lower room temperature. Delivering warm feet and a cool head, along with an allergen free environment adds up to a home which is beneficial for health and well being, the environment and has lower running costs.

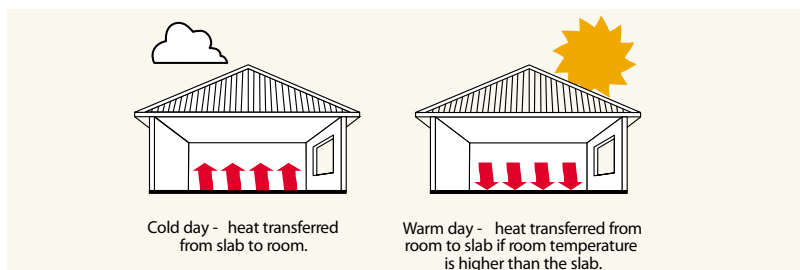
Hydronic underfloor heating explained

Hydronic slab heating involves circulating warm water through specifically designed and manufactured pipe embedded in either the concrete slab or laid into insulated panels placed over the top of the structural slab then finished off with a topping screed.

The temperature of the water entering the slab is typically 40-55°C and the pipe is a cross linked high density polyethylene with an oxygen barrier to exclude oxygen from the closed water circulation system. The water pipes have strength and flexibility to allow them to be laid in coils with gently rounded bends. This permits the whole of the installation to be done without joints or connection fittings.

The pipework is charged with water before the concrete or screed is laid, this helps to ensure the pipe's integrity under compression and to check there are no system leaks (experience indicates that while the incidence of faults is very low they can be further reduced by eliminating poor installation techniques, mechanical damage and the use of unsuitable piping).

Heat is gradually transferred from the water to the concrete as the water circulates through the pipes and returns to the boiler or heat source.



Oventrop Copex pipe

Oventrop is one of the leading manufacturers in Europe. Based in Germany Oventrop offer a complete range of hydronic radiator valves and accessories for the domestic market as well as the commercial mechanical services industry.

Oventrop Copex PEX-c pipe is used for in-slab hydronic underfloor heating systems. Manufactured from high density polyethylene, PEX-c is the most environmentally friendly method of processing as it does not involve other chemicals and uses only high energy electrons to split the carbon-hydrogen bonds and facilitate cross linking. It is highly resistant to chemicals and has a working temperature range of -20 deg to 90°C at pressures well above typical operating pressure. The smooth bore of Oventrop Copex pipes prevent sedimentation and flow loss over time. Copex has an EVOH oxygen barrier protected under the highly resilient outer PEX-Xc layer. The light weight, strength and flexibility of Oventrop Copex pipe makes installation of hydronic underfloor heating systems fast and easy.

Warranty guide: 8 years against manufacturing defects.

SBK modular manifold systems

SBK modular manifold systems designed and manufactured in Germany are comprised of individual 'blocks' assembled for the required number of heating circuits. Blocks are colour coded for flow and return piping, available as a plain option or with flow control valves. Constructed from glass reinforced plastic they are corrosion resistant with inbuilt insulating properties.

Warranty guide: 5 years warranty against manufacturing defects.