



HEATING SYSTEM ACCESSORY

Underfloor Heating: **VITASET**



Greater efficiency, lower emissions, simple operation. Viessmann underfloor heating.

Suitable for both new build and retrofit installations, wet underfloor heating is the most efficient way to provide space heating. Warm water is circulated around a network of pipes fitted within the floor. As the floor heats up it becomes a large emitter, or radiator, which provides the required room temperature and comfort level.

Compatible with most heat sources the underfloor system, to work effectively, only requires a lower temperature between 35-55°C, which reduces emissions and aids the efficiency of condensing boilers and heat pumps.

Viessmann underfloor heating systems are suitable for a wide range of ground and upper floor constructions. They can easily be combined with radiator systems for extensions and conservatories or used as a whole house solution.

Room Control

Room temperatures can be individually controlled with programmable room thermostats, which allow maximum flexibility while increasing the energy efficiency of the building.

Features :

- Comfort levels pre-programmed
- Holiday and frost modes, optimum start and lock facility



Programmable room thermostat

Underfloor heating in a living room





Actuators control the flow of hot water around the underfloor heating circuit

System Components

Viessmann PE-RT (polyethylene raised temperature) pipe is the recognised product of choice for underfloor heating across Europe. Lightweight and flexible with an EVOH (ethylene vinyl-alcohol copolymer) oxygen barrier to prevent system ingress and corrosion. Available in 16 mm and 20 mm external diameter.

- Easily recycled
- Oxygen barrier complies with DIN 4726
- Resistant to chemicals
- High tensile strength

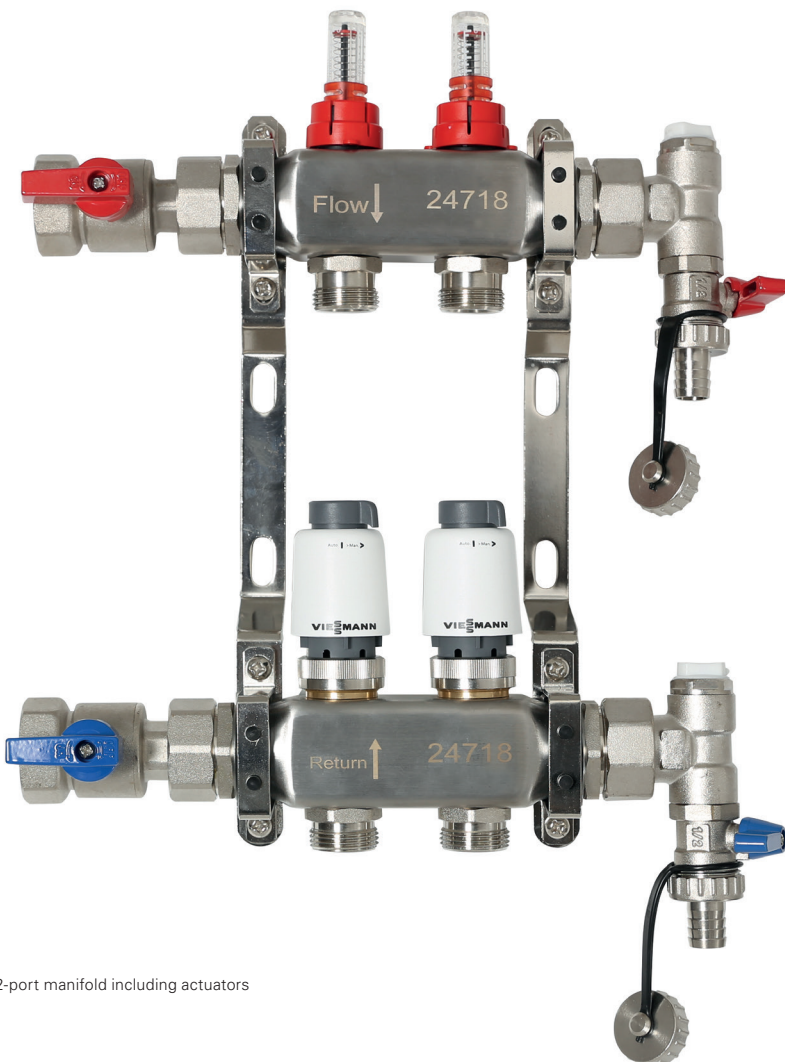
The underfloor heating manifold is at the heart of the system connecting all the pipe from the various rooms to the primary flow from the heat source. The pipe is only connected to the manifold and there are no joints in the floor. Available with 2 to 12 ports and supplied complete with flowmeters, fill and drain points, air vent and fixing brackets. Ideally positioned centrally within the building to minimise pipe runs.

The actuator fits to the return bar of the manifold and is connected, via the wiring centre, to the room thermostats and the heat source to control the water flow around the underfloor heating circuit. If a room thermostat calls for heat the actuator powers open to allow a flow of heated water around the pipe circuit. Once the room reaches temperature the actuator closes and stops the water flow.

A wiring centre is available to connect the room thermostats, actuators and if required the heat source, pump and zone valve. Includes LED indicators to show when a pipe circuit is calling for heat and the actuator is open.

For installations where the heat source is a high temperature boiler a pump pack is supplied comprising a domestic circulator and thermostatic blending valve plus pipe work and fittings for connection to the manifold. Pipe fixings include staples and clip rail for securing to floor grade insulation as part of a solid floor install.

The pipe fixing method for suspended timber floors are aluminium heat emission plates which are 1 metre x 390 mm and designed to be supported by joists with 400 mm centres. Systems are available for most floor types - please contact our Commercial Sales Team with your requirements by email to comsales-uk@viessmann.com



2-port manifold including actuators

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Floor coverings

A range of floor coverings can be used with underfloor heating, however, consideration should be given as to the most suitable solution.

As the resistance of the floor covering increases, the temperature of the water that flows around the system must also increase to provide the required room temperature and comfort level.

Thermal resistance	Tog	Typical example of floor finish
0.00 m ² K/W	0.0	2 mm vinyl tile, 5 mm ceramic tile, 3 mm epoxy coating
0.05 m ² K/W	0.5	25 mm marble, cushion linoleum
0.10 m ² K/W	1.0	9 mm carpet floor tile, 13 mm hardwood
0.15 m ² K/W	1.5	Deep pile carpet, 22 mm laminates

Design quote service

Viessmann offers a design quote service for underfloor heating based on 150 mm pipe centres for heat pump systems and 200 mm pipe centres for boiler systems. Please note heat emission plates and floor panels are 150 mm only.

Information required to produce a design quote :

- Heat source(s) - boiler, heat pump, other (please specify)
- Type of floor construction
- Preferred manifold position (not essential and we design to a suitable central point if not specified)
- Type of floor coverings to be used if known

Please send your information to our Commercial Sales Team:
comsales-uk@viessmann.com

Product features

- Suitable for new build and retrofit projects
- Increased comfort levels from efficient and even heat distribution
- Cost effective – lower system operating temperatures require less energy which reduces fuel bills
- Up to 25% more efficient than traditional radiator systems
- Frees up the walls – more usable room space
- Rooms can be individually controlled
- Low maintenance
- 10 year warranty (excluding electrical components)

Your trade partner:

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