

Manifolds and Controls

Within any underfloor heating system there are three constituent elements:

- The floor components
- The manifold
- The room temperature controls

In addition to the most comprehensive range of floor components, OSMA Underfloor Heating has spent the last ten

years continually developing and refining the best range of manifolds and controls.

OSMA UFH Manifolds are available either in component form or as pre-assembled units.

Pre-assembled manifolds are pressure tested and mounted on a galvanised steel back plate ready for installation.

OSMA Underfloor Heating has developed a simple-to-use wiring centre that integrates in a single unit the controls required for underfloor heating, radiators, hot water cylinder and boiler.

Manifolds and water distribution

Pre-assembled manifolds combine the latest fail-safe technology with the new Grundfos Alpha Plus circulator. OSMA can also provide an upgrade to an Alpha Plus Pro, an energy efficient, "A" rated circulator.



OSMA pre-assembled manifold

Each separate 15mm heating pipe circuit is connected to a separate flow and return port on the manifold. Circuits can be controlled separately or together by individual room thermostats. These operate thermo-hydraulic actuator heads on the return port for each circuit.

If the boiler flow temperature exceeds 60°C, the temperature must be reduced to a level suitable for underfloor heating. The lower temperature required is achieved using a water mixing valve and secondary circulator as part of the manifold assembly. The manifold is also available without the pump and water mixing valve for projects where a boiler system can directly and safely provide water at 60°C or below.

Each engineered manifold comes with automatic air vents, control valves and return temperature gauges to aid balancing. The manifolds are available in wall recess or surface mounted boxes.

Heated towel rails can either be linked into an underfloor heating circuit or connected to the domestic hot water supply.



Branch Manifolds

Manifolds can also be assembled from individual components that can be purchased separately from the OSMA UFH standard range. These allow a manifold assembly to be configured to suit a particular preference.

The OSMA mini unit is designed to allow a small area of underfloor heating to be added to an existing heating system. The unit comes complete with circulator, water mixing valve and actuator. This unit specifically suits UFH systems that comprise 1 or 2 pipe circuits, such as in conservatories.



OSMA Mini Unit