



MANIFOLDS & WATER TEMPERATURE CONTROL

Manifolds

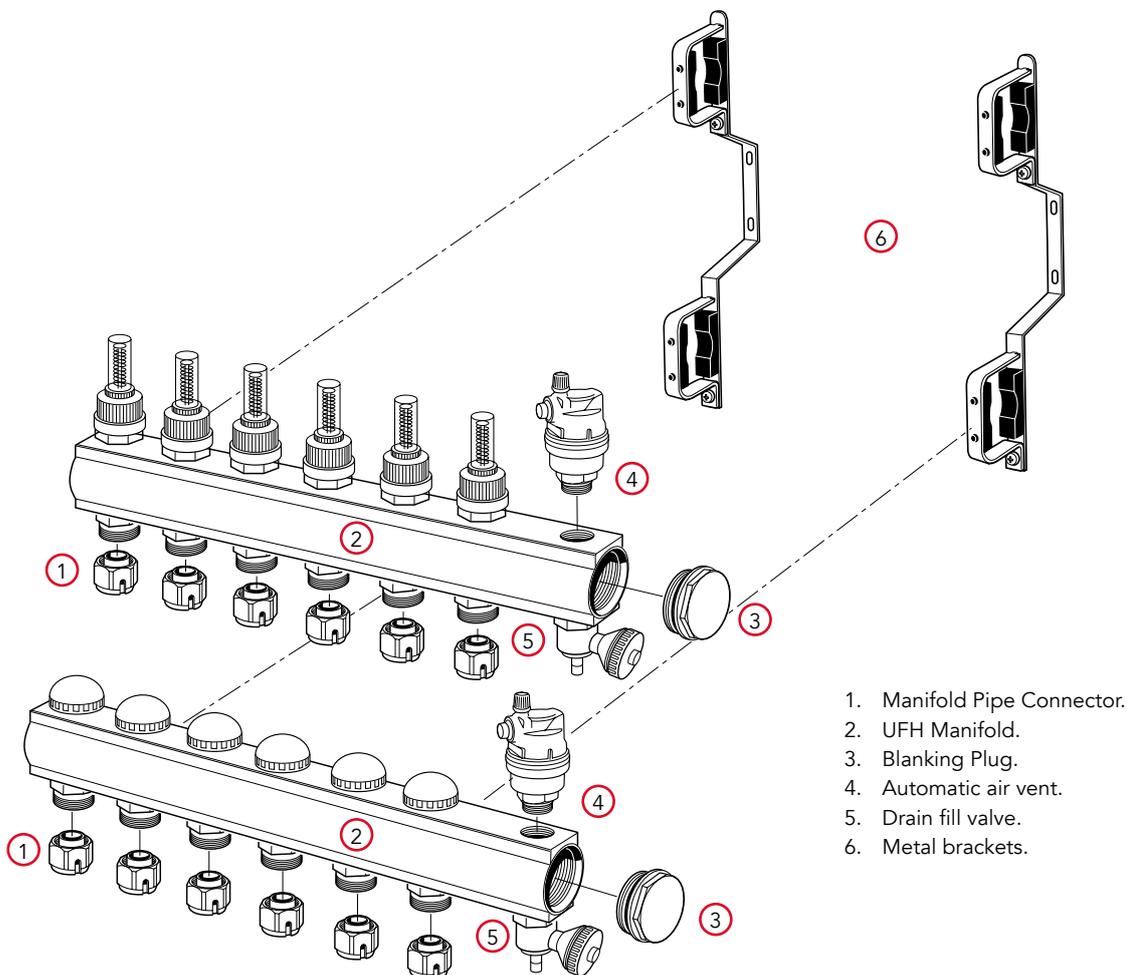
Essentially the manifold allows for every loop of UFH pipe in a building to be connected to and from the manifold in a single continuous length with no fittings in between, completely removing the possibility of joint leaks. If there is a fault with an individual circuit or maintenance is required that circuit can simply be turned 'off'.

The Maincor UFH manifolds are available in various sizes which range from 1 to 12 ports. The manifolds have 1" connections on the main in/outlets and have 24/19 connections for the UFH Pipe. The flow manifold (top header) includes balancing and isolation valves. Depending on the

position of the white locking cap, when adjusted, it will either regulate the flow (you will see the flow change in the glass window) or isolate the circuit. If ever the need arises, system maintenance can take place without losing the regulated flow which is determined at commissioning stage, hence the system will never need to be re-commissioned after the initial commissioning process. The manifold also includes fill and drain points and automatic air vents to aid installation.

A two port manifold is 172mm wide and for every additional port above this size add on 50mm to the width.

Inlet size:	1"
Outlet connectors:	Manifold Pipe Connector (options for 12, 16 & 20mm MLCP)
Outlet centres:	50mm
Ports:	Options for 1 to 12 ports
Isolation:	Each port has an isolation tap
Maximum operating pressure:	10 bar
Maximum operating temperature:	95°C



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Underfloor Heating Manifold Locations

Manifolds should be located centrally in the building if possible. It is important to ensure that there is good access for maintenance or in the event of a problem. In domestic situations good locations would be underneath stairs, at the back of a kitchen cupboard, or in an airing cupboard on the first floor. If there is a requirement to hide them away, then Manifolds can be located inside stud walls behind an access hatch, or inside a dedicated cabinet.

When locating a manifold consideration needs to be given to minimise the amount of uncontrolled heating from pipes passing through rooms en route to other areas.

Connecting a Manifold

The manifolds have 1" connections on the main in/outlets and have 24/19 connections for the UFH Pipe.

Prior to fitting the connectors to the manifold the pipe is to be bevelled by inserting the bevelling tool and rotating the tool three full turns. This will put a 45° chamfer on the pipe and the pipe will be ready to take the fitting.

When installing underfloor heating systems ensure that all relevant health and safety legislation and local site regulations are fully adhered to at all times.



1. Cut the pipe at a 90° angle.



2. Bevel the cut end of the pipe.



3. Check to ensure there are no burrs.



4. Place the nut and olive onto the pipe.



5. Push the fitting into the bevelled end of the pipe.



6. Tighten the fitting onto the manifold outlet using a manifold spanner.