Underfloor Heating Manifold



Please Note - Euroconus connections supplied seperately, see page 10 for further details.

A range of stainless steel manifolds; 2-12 circuits designed for underfloor heating applications.

Spares & Pipe Connections

Manifold Ball Valve - Red
Manifold Ball Valve - Blue
Manifold Bleed Valve, includes key
Drain/ Filling Valve Pair - Red & Blue
Manifold Tee Piece 1/2" x 1" x 1/2"
Manifold Flow Meter
Manifold Circulating Isolating Valve
Manifold Blanking Cap
Pressure Gauge & Bush
Manifold Thermoelectric Head 230V
Manifold Thermoelectric Head 24V
Black Decorator Cap for Return Bar
1/2" UFH Auto Air Vent

Euroconus Connections

1

MFIT100001:	Euroconus Fittings 15 x 2.0
MFIT100002:	Euroconus Fittings 16 x 1.5
MFIT100003:	Euroconus Fittings 16 x 2.0
MFIT100004:	Euroconus Fittings 16 x 2.2
MFIT100005:	Euroconus Fittings 17 x 2.0
MFIT100006:	Euroconus Fittings 20 x 2.0
MFIT100050:	Euroconus Fittings 14 x 2.0
MFIT100052:	Euroconus Fittings 16 x 2.25
MFIT100053:	Euroconus Fittings 15 x 1.5

Commissioning



When initially filling the UFH heating system it is important to remove the air in the pipework. In order to do this a hose should be connected to the upperfill valve and the bottom valve should be opened to allow the water to be flushed into a bucket or drain.

First isolate all but one of the heating circuits by turning off the relevant decorators caps. Next flush out the open circuit with clean water until it runs freely from the bottom valve. Isolate this circuit and open the next one.

Repeat this until all circuits have been filled. Introduce any inhibitor or anti-freeze at this stage.

Please note: The manifold flow meters are delivered in the closed position, these need to be opened for water to flow through the loops.

Flow rates should be set to correspond with the system design. This is achieved (with the pump running) by lifting the locking collars at the base of the flow indicators and twisting the indicator base until the desired flow is indicated, then re-fit the locking collars.

Do not twist the glass as this will completely remove the gauge, this is designed only to be removed for cleaning purposes, and when the flow has been isolated.

General Information

The UFH manifold kit includes flow and return manifold bars that come preassembled to installation brackets are supplied with wall mounting plugs, screws, and identity labels for each zone.

Contents

Materials & Specifications	3
Dimensions	4
Pack Contents	5
Installation	6
Commissioning	9
Spares & Pipe Connections	10



Materials & Specifications

Usual working temperature: Maximum working pressure: Maximum working temperature:

Maximum test pressure: Media:

Manifold body: Internal Seals: Flat Face Seals: Bracket:

Flow Meters with Isolation

Maximum Static Pressure: Media Temperature:

Media: Flow Rate Range:

Connection Fitting: O Ring Seals: Spring: Cover Cap: Regulator Window:

Circuit Control Valve

Maximum Static Pressure: Maximum Temperature:

Stroke: Media:

Connection Fitting: O Ring Seals: Washer: Spindle: Spring: Cover Cap: 82°C 6 Bar 105°C (short term malfunction at 114°C) 6 Bar Water with corrosion inhibitors

304 stainless steel NBR and EPDM Fibre Zinc plated mild steel

6 Bar -10°C to 70°C

Water with corrosion inhibitors 0-5 LPM

Nickel plated brass NBR Stainless steel ABS Plastic

6 Bar 105°C (short term malfunction at 114°C) 3mm Water with corrosion inhibitors

Nickel plated brass EPDM EPDM Stainless steel Stainless steel ABS Please note: the blanking plugs should be fitted on the drain/filling valve. The manifold is now ready to have the flow and return pipes and the UFHC temperature control unit attached.

Ensure the UFH tube is cut squarely and is not damaged.



After the installation is complete the identity stickers can be used (if desired), to identify which zone each loop of pipe serves.



Fit the blue handled 1" union ball valve to the return manifold and the red handled 1" union ball valve to the flow manifold using fibre seals provided. (Ball valves not included)



Fit the end connection with the manual air vent and blue handled drain/filling valve to the return manifold and the end connection with the manual air vent and red handled drain/filling valve to the flow manifold, using the fibre seals provided. (Filling valves not included)



Dimensions



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No of Circuits	A	В	С	D*	E
2	342	210	50	276	90
3	342	210	50	326	90
4	342	210	50	376	90
5	342	210	50	426	90
6	342	210	50	476	90
7	342	210	50	526	90
8	342	210	50	576	90
9	342	210	50	626	90
10	342	210	50	676	90
11	342	210	50	726	90
12	342	210	50	776	90

All dimensions are shown in mm unless otherwise stated.

*This dimension is a typical value using Reliance ball valves & filling valves

Pack Contents

Before commencing the installation please check that all of the manifold UFH kit components are in the box.

The kit should include:

- One flow and one return manifold on wall mounting brackets Two manual vent keys
- One sheet of identity stickers
- Wall plugs & screws
- Instruction booklet

Please note: Euroconus fittings are not supplied, and therefore should be obtained separately. See page 10 for further details on these fittings, along with spares and other accessories.

Installation

Before installation the flow manifold bar needs to be rotated so the flow gauges are on top, with the connections below (as per pictures). To do this loosen the securing screws, twist the bar to the correct orientation and re-tighten the screws. The manifolds are packed in this way to protect the flow gauges whilst in transit.

Use the screws and plugs provided to mount the pre-assembled flow and return manifold assembly to the wall (please ensure that the screws and plugs provided are appropriate for your wall construction, if not alternative suitable fixings should be used).





Make sure that the manifold is level and that it is high enough so that the pipes can be installed easily.

