circofloPro

INSTALL GUIDE

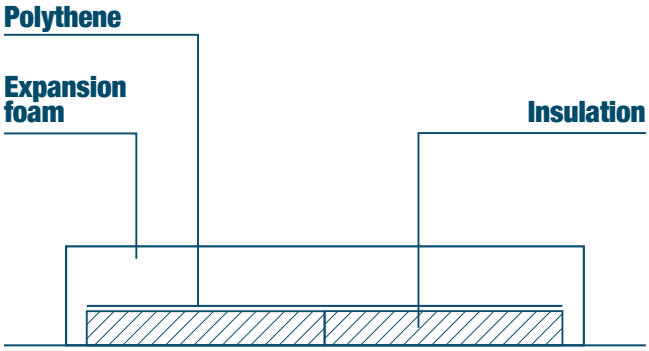
CLIPRAIL

1. LAY THE FOAM AND INSULATION

Lay the expansion foam around the perimeter of the room ensuring the gaiter is facing into the room.
Lay insulation in accordance with Building Regulation requirements. Insulation should be laid hard up against the expansion foam with no gaps. The insulation must be suitable to hold the ClipRail and pipe in place.

Make sure the expansion foam gaiter is resting on the top of the insulation.

Prior to installing the ClipRail, the insulation layer may need to be covered with overlapping polythene sheets if using a flow screed, again the expansion foam gaiter needs to be resting on the polythene. Both the polythene sheets and gaiter may need to be taped up to stop any screed from flowing under the insulation.

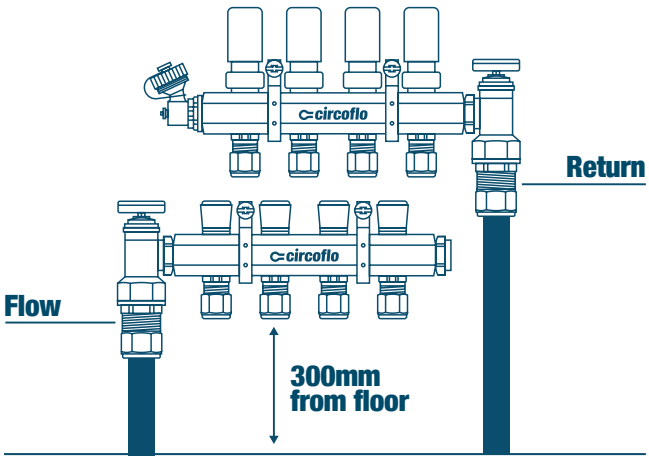


2. ATTACHING THE MANIFOLD

Attach the manifold to the wall using appropriate wall mounting fittings.

You can arrange the flow and return pipework in a variety of ways, depending on what is best for your installation.

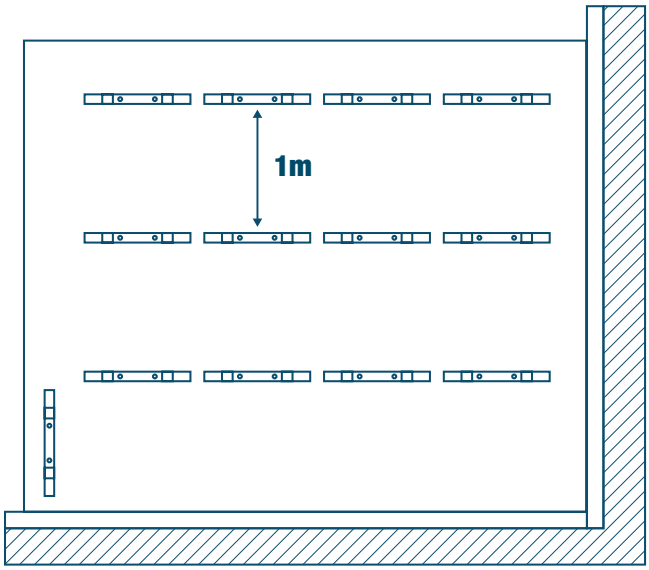
The two manifold arms should be within 500mm of each other to allow for the actuators (with 1500mm of cable) to be connected into the 4-zone wiring centre positioned close by.



3. LAYING THE PANELS

Push the ClipRail through the polythene sheets and into the insulation.

These should be nominally 1m apart from each other and must be parallel, use additional at the ends where the pipe loop returns to the manifold.

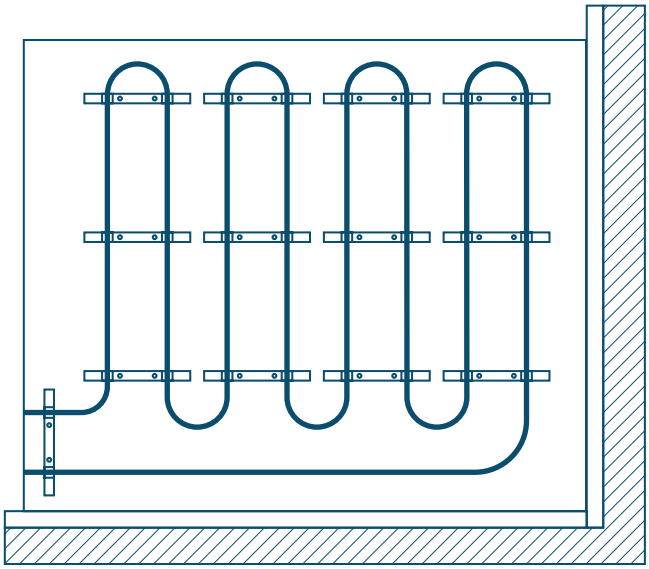


4. LAYING THE PIPE

Starting at the manifold and working from the edge of the room, push the pipe into the 133mm centres ClipRail in a serpentine pattern.

Ensure there is enough pipe exposed from the floor to reach the ports on the manifold. Don't lay any pipe in areas which will be unheated (such as underneath kitchen units).

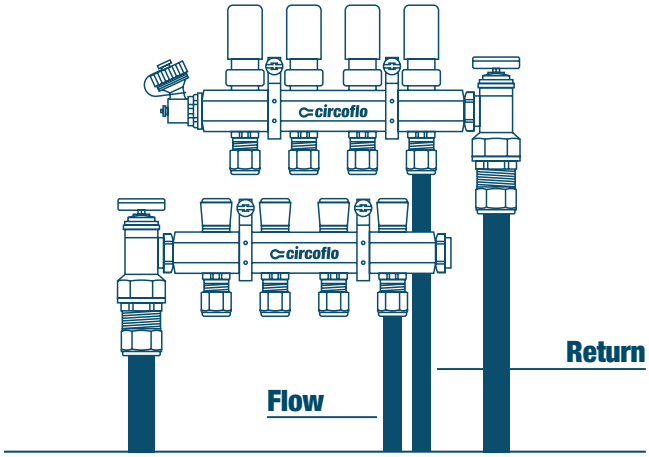
Note: If at any point the pipework is kinked, the coil must be replaced.



5. COMPLETING THE CIRCUIT INSTALLATION

When returning the circuit to the manifold, cut the pipe with a pipe cutter ensuring that the pipe is long enough to reach the manifold.

Label the pipe with flow and return, and number the circuit. This will help when connecting to the manifold.



6. CONNECTING THE MANIFOLD

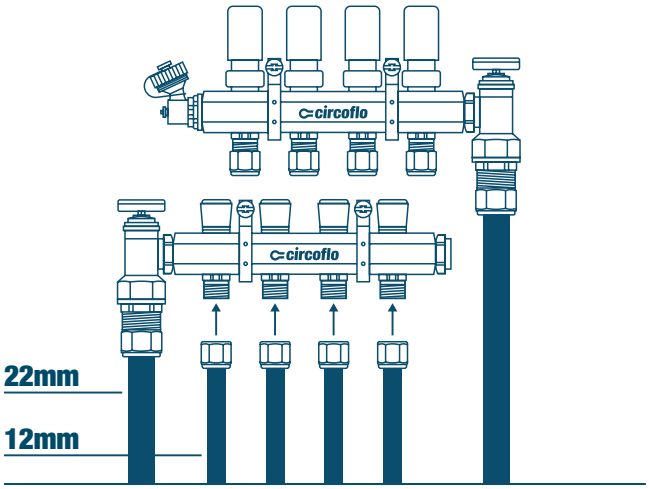
Connect the 22mm primary pipework from the heat source. If you require a mixing unit this will need to be installed in the primary heating pipework along with a standard pump typically located beside the boiler/ heat source.

Fit the monoblocco connectors on to the ends of the 12mm pipe and screw onto the manifold by hand. Using a spanner, tighten the connection whilst maintaining upwards pressure on the pipe.

Note: Once connected, it is recommended to insulate all primary pipe work.

Before continuing, complete the connection checklist below:

- All manifold joints are tight and sealed
- Primary flow and return are connected to the manifold correctly
- Isolating valves and drains left closed
- Pipes marked with circuit numbers and “flow” or “return”

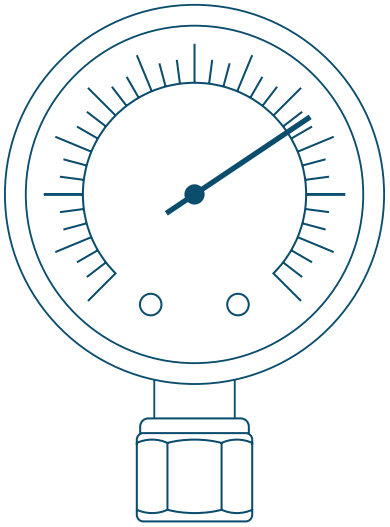


7. FILLING THE SYSTEM

If your project uses more than one Circoflo underfloor heating system, lay all of the other systems and connect to the manifold(s) before moving on to filling the systems.

Now follow the commissioning and bleeding instructions on the manifold. Make sure to fill out the commissioning information on the manifold booklet.

It is advisable to keep the system under pressure when laying the screed at a minimum of 6 bar using water.
It is essential that the concrete or screed is allowed to fully cure before the underfloor heating system is first put into operation.



6 bar min

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