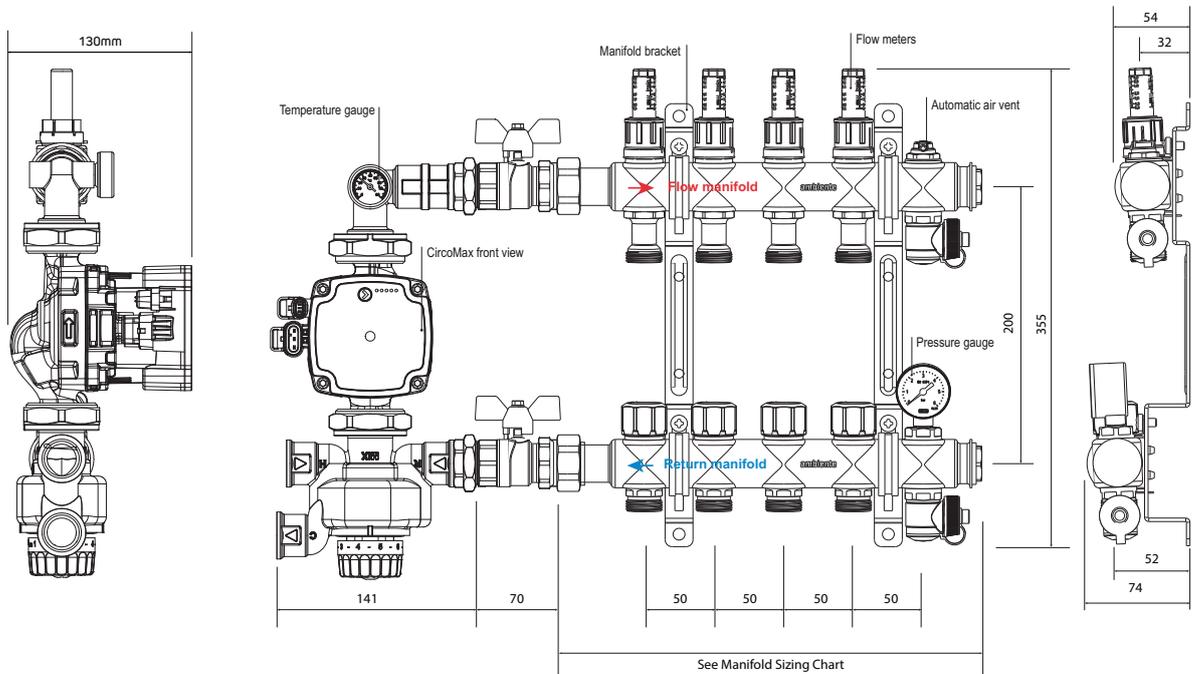


PUMPED MIXING MANIFOLDS

PRODUCT OVERVIEW

Manifold front view (Four port manifold used for example purposes only)



Pumped Mixing Manifolds

Ambiente pumped mixing manifolds are primarily for use where the hot water supply to the manifold is at a higher temperature than that required for the underfloor heating system. Underfloor heating systems are normally most effective with a 45°C – 55°C flow water temperature, whereas most boilers provide a flow temperature of 80-90°C. Therefore the blending valve, immediately beneath the pump, mixes the flow from the heat source with the return to cool the water to the desired temperature. It's adjustable control ranges between 35°C – 65°C.

The flow meters provide a way of checking that water is moving through each circuit and this allows the system to be balanced by adjusting the flow rates to meet the design requirements. The electric actuator heads are responsible for opening or closing each individual loop. Each actuator is controlled by a thermostat

switching the actuator on and off to control the room temperature.

The manifold also benefits from features such as an automatic air vent (optional), pressure gauge, fill/drain points and isolating ball-valves, making any commissioning and maintenance quick and straightforward.

Following assembly, manifolds are factory pressure tested to 10 bar. The manifold can also connect to LST radiators or towel rails.

Pumpset Connection Sizes

Flow = 3/4" female BSP

Return = 3/4" female BSP

MANIFOLD SIZING CHART

Number of ports	1	2	3	4	5	6	7	8	9	10	11	12
Manifold Length (mm)	142	192	242	292	342	392	442	492	542	592	642	692

Please Note: Recommended minimum installation clearances: 200mm between the finished floor level (FFL) and bottom of the manifold, 100mm above the manifold, 50mm to either side of the manifold and allow an extra 100mm for the supply pipe work.