



Compact mixing valve and manifold

Description of unit

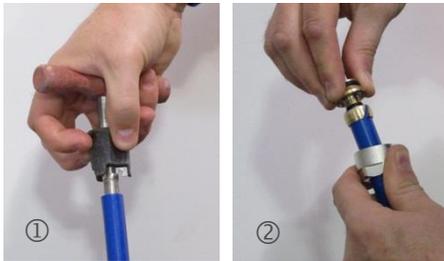
The JUPITER compact mixing station is a simple, non intelligent mixing valve, pump and manifold station for up to 6 floor circuits. The unit can provide warm water at flow temperatures from between 10 and 50 to underfloor heating circuits no longer than 100 linear metres (16 x 2mm pipe dimension).

Box contents

As well as the fixed equipment the box contains loose components. A pair of Eurokonus pipe to manifold connections are supplied for each circuit.

Connecting pipe work

The primary flow in should be connected via the red ball valve to upper manifold and the primary return should be connected via the blue ball valve positioned on the lower manifold. The 16mm JUPITER pipe coming from the floor should be connected using the separately packed Eurokonus connectors. Ensure that the pipe is chamfered ① before pushing into fitting ② as not doing so can cause damage to O ring. Check the tightness of the connections between the pump and manifold as they may have become loose in transit.



Electrical connection and set up

There are two options for wiring the JUPITER compact mixing station.

Option A is to simply control the room temperature by connecting a 240V room thermostat in line with the over heat thermostat and pump. Power should be via the grey connection box located in the top left hand corner (see wiring diagram). Power should be independent and not linked to the boiler. The pump will simply turn on when the thermostat calls for demand regardless of there being a hot water supply or not. With this option the valves on the lower manifold should be left fully open by unscrewing the blue caps ④. The temperature of the water can be determined by setting the value on the thermostatic valve ⑤. Caution should be taken when adjusting this temperature in order not to exceed floor surface temperatures particularly with timber floors where the recommended limit is 27°C.

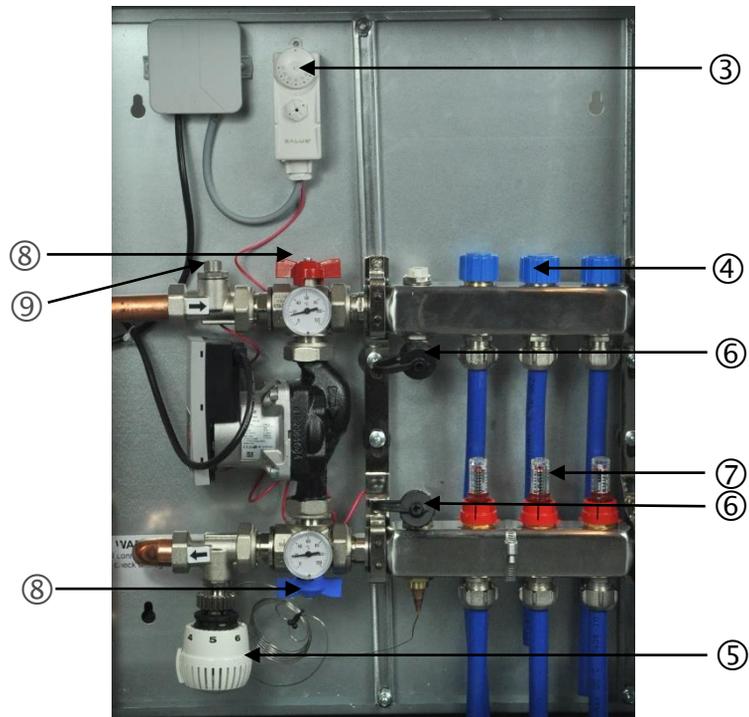
The over heat thermostat is factory set at 60°C.

Option B. If it is intended to run the system with individual floor circuit control (actuators per circuit) which could be the case if using more than 2 circuits, it is advised to use an additional wiring centre. This set up also allows for demand signals from individual thermostats to control pump as well as demand signal back to boiler.

Filling and operation

Filling of the system is done by using the fill and drain valves ⑥ located on each manifold. Using a standard hosepipe connection, each circuit can be filled and purged of air independently by using the blue caps on each valves.

A flow rate of between 1.5 and 2.5 l/m on the flow meters ⑦ is suitable for normal operation.





Remove thermostatic valve ⑤



Replace with blue cap from top valve and tighten



Remove filler cap to use as valve key



Use cap as key to close primary 2 port valve ⑥



Using same key open (unscrew) upper return valve



.....and lower fill valve



Attach Hozeolock fittings to fill and drain valves



Attach fill (lower) and return (upper) hoses and turn on water supply. Allow to drain in to bucket.



After 20-30 seconds close red and blue valves ⑧



Close all blue caps on upper manifold except for the circuit you wish to fill.



Once no more air bubbles emerge, open next circuit and use blue cap to close previous circuit.



Once all circuits are purged, close fill and drain valves using cap. Close upper return valve first then lower fill valve. Only then turn off water supply.



Re-open red and blue valves.



Attach pressure test to lower fill valve. Open lower fill valve with attached key and test pressure to 6 bar. Once satisfied there are no leaks leave on test for a minimum of 1 hour.

Once completed decrease pressure to 2 bar and close valve using cap. Release remaining pressure and remove test equipment. Close red and blue ball valves. Open upper two port primary valve (a little water will discharge).



Remove blue cap from lower 2 port valve and replace the thermostatic valve. Recommended setting is set point 4.5 (see table below)

Scale	1	2	3	4	5	6
Temp °C	10	20	30	40	50	60



Compact mixing valve and manifold

Number of circuits	2	3	4	5	6	7	8	9	10	11	12	
Manifold & mixing valve (width mm)	320	370	420	470	520	570	620	670	720	770	820	
Cabinet sizes												
Surface mounted (W)	450	580	730	730	730	830	830	830	1030	1030	1030	D:140mm
Height (H)	900	900	900	900	900	900	900	900	900	900	900	
Flush mounted (W)	515	600	750	750	750	900	900	900	1050	1050	1050	D:120mm (min.)
Height	715-800	715-800	715-800	715-800	715-800	715-800	715-800	715-800	715-800	715-800	715-800	

Wiring: – Heatmiser NeoStat for single zone **without zone valve**

