

INSTALLATION GUIDE

Controls MR2A manifold



Introduction

The MR2A is a mini mixing valve and pump system connected to a split circuit manifold. The unit is suitable to feed underfloor heating systems up to 30m². The unit is preset to supply a water temperature of between 35 and 40°C. The unit has an integrated protection system that restricts the supply temperature to a maximum of 55°C.

Pre-Installation electrical information

Power to the unit should be supplied by means of a switched fuse spur, preferably located immediately next to or above the cabinet. The supplied thermostat should be wired using a 3 core 0.75 mm cable and run from the thermostat location back to the MR2A unit. The thermostat requires a live, neutral and switched live cable so therefore an earth cable should NOT be used unless marked with a sleeve. A 4 core (3 core and earth) is more suitable.

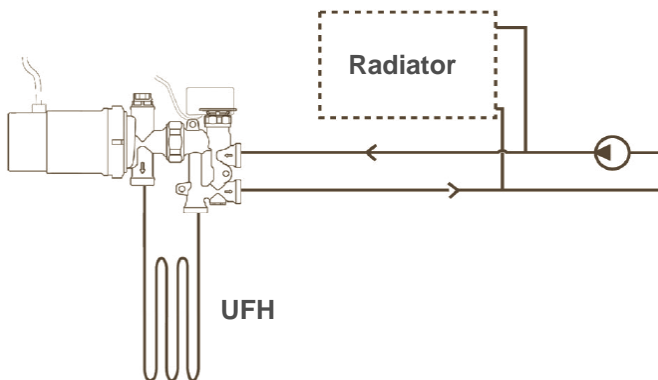
NOTE: A qualified electrician should make all the electrical connections.

Pre-installation plumbing information

Water connections to the MR2A are made by using the supplied Eurokonus specialist fittings. Primary supply pipes can be 15mm copper (if linking up with an existing disused radiator connection or greater if running further distances from the boiler). The Eurokonus fittings are designed to accept 3/4" copper pipe work. The MR2A unit can simply be considered as a radiator.

NOTE: A qualified plumber should make the connections to the manifold

MR2A functional schematic



Technical requirements

Minimum 10K Δt between radiator circuit & UFH circuit.

Supply pressure min. 10 kPa (0.1 bar)

Cabinet dimensions (mm)

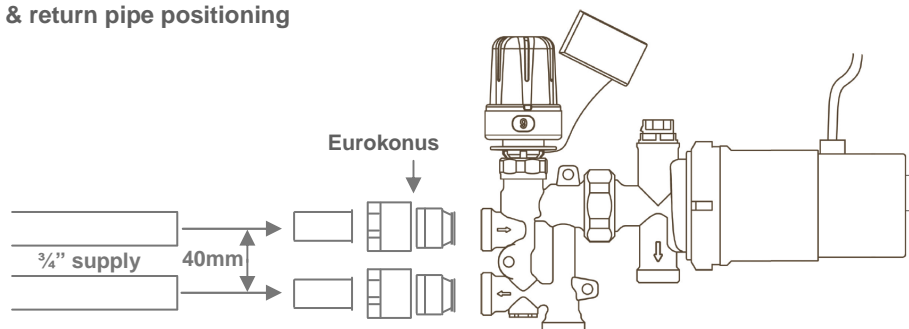
Flush mounted

H 330 x W 400 x D 110-150 (variable)

Surface mounted

H 310 x W 415 x D 115

Feed & return pipe positioning



Connection distance from rear of unit approx. 60mm

Connection distance from base of unit approx. 120mm

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Mounting of unit

Surface mounted cabinets can be simply mounted to walls using standard methods i.e. Rawlplugs and screws. Pre installation of the pipe work intended for the a surface mounted MR2A should preferably enter the unit from the bottom left hand side. Feed pipes for the flush mounted MR2A unit can enter from the same position or from the left by removing the punch out panels.

Connecting of floor heating circuits

The MR2A is suitable for floor areas up to 30m². Pipe runs up to 40 linear metres can consist of just 1 heating circuit and connected directly to the MR2A by removing the twin adaptor connections. Longer pipe runs should use the twin adaptor connections and be of approximately the same length. The JUPITER pipe MUST be beveled before connecting using the beveling tool.

Filling of system

The simplest method of filling and pressure testing the MR2A is by using a domestic hosepipe and fittings. The male thread on the MR2A is 3/4" and is compatible with the Hozelock 3/4" BSP tap connector. This, in turn, can then be connected to a standard Hozelock hose connector. Filling should be done by via the upper connection, return via the lower. Allow the water to run through the system. Filling and purging the pipe work completely of air can take up to 15 minutes. Pressure testing the system to check for leaks should take place before installing floor finish and can be done using specific pressure test equipment or by mains pressure supply.

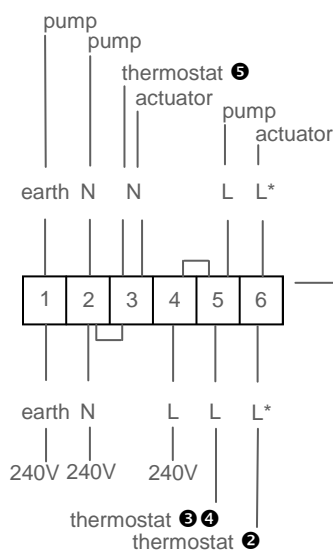


Hozelock connectors

Full installation and operation instructions are contained within the full manual supplied with the MR2A unit.

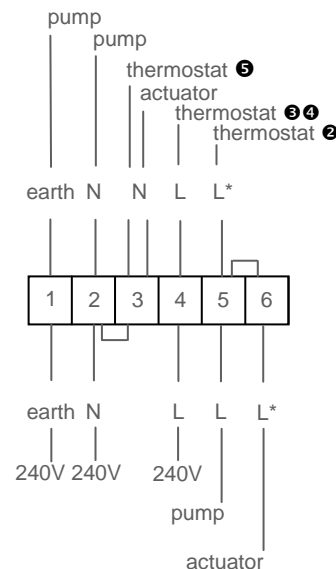
Wiring Option A (as delivered)

Pump continuously on, system switched on by room thermostat



Wiring Option B

Pump and system switched on by room thermostat



⊖ this indicates connector position in thermostat
L* indicates switched live

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