



INSTALLATION GUIDE

Myson Comfort Fit Manifold with Regolux® Flow Meters

Application

Myson Comfort Fit manifolds with *Regolux Flow Meters* are suitable for use in all properly designed hydronic heating and cooling systems. Individual circuits can support up to 2 gallons per minute of flow (7.6 litres per minute).

What you should find in the package

Pre-assembled components:

- Mounting Brackets: 2 brackets with offsets, predrilled mounting holes and header isolators
- Return Header: Thermometer, protective caps over thermostatic valve insert and drain/fill valve ($3/4$ " hose connection)
- Supply Header: Thermometer, AFC valves on each circuit and drain/fill valve ($3/4$ " hose connection)
- Regolux flow meter range: 0 – 2 gpm (*approximately 0 – 7.6 l/min*)

Enclosed components (site assembly required):

- Mounting screw set with wall anchors – *It is the responsibility of the installer to make sure the mounting screw set and wall anchors are suitable for the as-built conditions of the mounting surface.*
- 2 – 1 inch NPT isolation valves (red handle for supply, blue handle for return)



Operating and Technical Parameters

Mount the manifold on a rigid surface with enough room to transition the circuit pipes into the manifold. The best practice is to allow a minimum of 18" (45 cm) of straight run into the manifold by individual circuits and 24" (60 cm) for the main supply and return header pipes. Be sure to provide appropriate protection around pipes where they pass through framing members, thermal mass penetrations and other construction materials.

Manifold Mounting

Myson Comfort Fit manifolds are precision instruments. The hydronic system in which they are installed should be properly sized and installed. **Air which is entrained in system pipes can cause poor or no flow conditions. Likewise, dirt and debris in system fluid can prevent AFC valves from operating properly. Therefore, Myson recommends the installation of micro-bubble type air eliminators and dirt separator devices installed upstream of all manifolds.** Myson is not responsible for product performance related problems that arise from improper system design, installation or use of system components to include air eliminators and dirt separators. Use only clean fluid when filling the system. When initially filling the system, best practice is to purge air from each manifold circuit individually. In other words, when filling and purging a circuit, all other circuits should be in the "off" position.

- Operating Temperatures: 14°F and 158°F (-10°C and +70°C)
- System Operating Fluid: Non-corrosive system fluid according to VDI 2035 Part 2
- Max. Operating Pressure: 60 psi (4 bar)
- Max Test Pressure: 87 psi (6 bar – according to DIN EN 1264-4)
- Material: Stainless Steel *type 1.4301/grade 304 – X5CrNi18-10*
- Glycol: Concentrations must not exceed 50% (by volume)

All stainless steel is subject to corrosion under certain conditions that include excessive flow rates, high concentrations of certain organic compounds such as chlorides as well as low pH. Please check local conditions and understand the chemical nature of the fluid you are placing in the system when using Comfort Fit manifolds. Use of system fluid that contains glycol solutions that are approved for hydronic systems is acceptable. Glycol concentration must not exceed 50% (by volume) and should be checked and maintained per the manufacturer's recommendations.

Regolux flow meter adjustment



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Note: All setting is carried out using the red colored hand-wheel on the flow meter, not by turning the sight glass. Use caution when turning hand-wheels. All adjustments should be made "hand-tight" only. This balancing procedure must take place while fluid is circulating through the system at design flow rate conditions.

1 - Pull up gently on the black colored hand-knob



2 - Twist counterclockwise to lock in the up position



3 - Twist the red colored hand-knob to adjust flow. While twisting, watch as the red indicator inside of the sight-glass moves. Continue twisting (clockwise or counter clockwise), until the red indicator disk is on the same level as the desired GPM indication on the sight glass surface.

4 - Once at the desired GPM indication, twist the black hand-knob clockwise until it stops.



5 - Push down on the black hand-knob to secure the flow setting



6 - To shut off flow to the circuit, rotate the red hand-knob clockwise until it stops (the black hand-knob must be in the down/secure position - step 5)

7 - To open flow to the circuit, rotate the red hand-knob counter clockwise until it stops (the black hand-knob must be in the down/secure position - step 5)



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