Description

The R553F preassembled manifold consists of:

- 1 delivery manifold with front balancing lockshield valves equipped with mechanical memory and flow meters scale 0,5÷5 l/min
- 1 return manifold with interception valves with manual handwheel, suitable for electro-thermal command.
- Metal brackets.
- Set of adhesive labels for identifying the various circuits.
- 1 spanner R558.

Versions and product code

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<tr>
<th>Product code</th>
<th>Manifold connections x outputs</th>
<th>N° of outputs</th>
<th>Flush-mounting cabinet *&lt;sup&gt;†&lt;/sup&gt;</th>
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Flush-mounting cabinets for manifolds

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*Note. The cabinet is chosen keeping in consideration the size of the R554D intermediate fitting and R259D ball valve.
Technical data
• Temperature range: 5–110 °C
• Max. working pressure: 10 bar
• Outputs centre distance: 50 mm

Materials
• Manifold: brass
• Gaskets: EPDM
• Brackets: galvanized steel

Losses of pressure of single circuit

![Graph showing losses of pressure of single circuit]

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Components
Manifold
• The delivery manifold consists of a drawn brass bar in a special alloy, containing a balancing lockshield valve with mechanical memory for each circuit so that the calibration position in each one can be identified and maintained, even in the case of total interception. The mechanical memory takes the form of a specific ring which, when regulated with the R558 spanner, limits the maximum opening of the lockshield valve to the value selected during the balancing phase. To make the correct adjustment, fully open the metal ring using the screwdriver part of the R558 spanner, then close the lockshield valve fully down using the hexagonal part of the spanner. Open the valve by the number of rotations determined via the calibration diagrams, then tighten the memory ring as far as it will go on the valve. The flow meters allow you to immediately read the flow rate circulating in the individual circuits, thereby ensuring optimum balancing.
• The return manifold is equipped with interception valves with a manual handwheel, suitable for electro-thermal command via the electro-thermal actuators R478, R478M (normally open) and R473, R473M (normally closed). The actuators are assembled by releasing the handwheel on the manifolds and thereby freeing the valve connection.

Metallic brackets
Metallic brackets, for use in metal cabinets R500-2 or R500 series (depending on the manifolds codes).

Adjustment key and adhesive labels
The kit is completed with a set of adhesive labels for the detection of the various circuits and an adjusting key for adjusting the holders.

Installation
1) Install any ball valves and intermediate groups at the entrance of the manifold and the terminal groups or taps at the end of the manifold.
2) Install the manifold with the metal brackets inside the cabinet.
3) Connect the main pipes coming from the boiler room to the manifold connections and the pipes of the system to the manifold outputs. For the connection use adaptors base 18 (R178, R179 or R179AM series) or Eurocone (R178E, R179E series).
4) Install and electrically connecting any electrical actuators in place of the handwheels on the return manifold.

Example of application scheme with radiant floor system

![Diagram showing example of application scheme with radiant floor system]
## Dimensions

RS53F for R500-2 cabinets with 85 – 130 mm depth

![Diagram](image_url)

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Manifolds and preassembled groups

Preassembled manifold with flow meters

R553F

R553F for R500 cabinets with 110 mm depth

Product specifications

R553F

Preassembled brass manifold for conditioning systems with flow meters. Centre distance between the outflow points 50 mm. Temperature range 5–110 °C. Max. working pressure 10 bar. Consisting of: 1 delivery manifold with front balancing lockshield valves equipped with mechanical memory and flow meters scale 0.5–5 l/min. 1 return manifold with interception valves with manual handwheel, suitable for electro-thermal command. EPDM gaskets. Metal brackets. Set of adhesive labels for identifying the various circuits. 1 adjustment key R558. Available with connection for base 18 or Eurocone adaptors.