

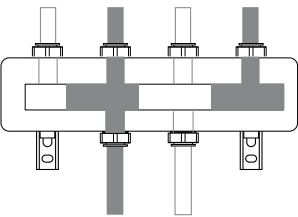
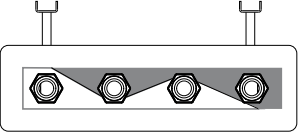
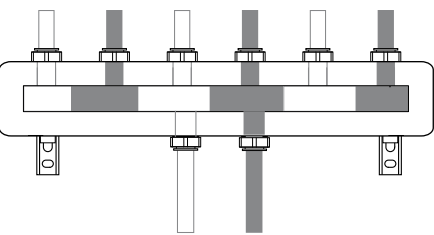
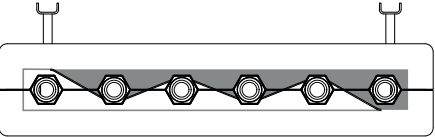
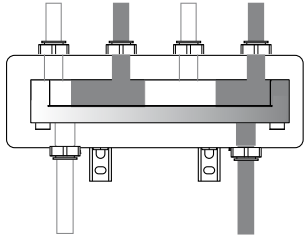
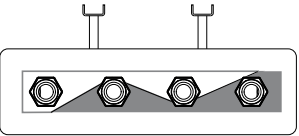
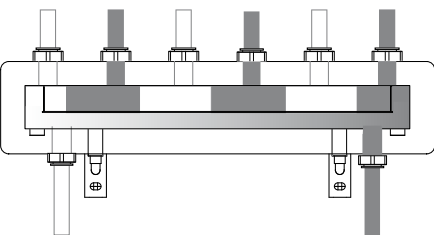
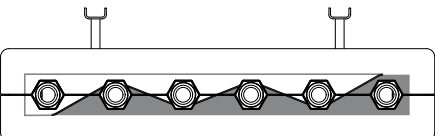




SERIES	FUNCTION
<p>ESBE GMA121</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Return</p>  </div> <div style="text-align: center;"> <p>Supply</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;">   </div> <p style="text-align: right; margin-top: 10px;"><b>Manifold for 2 Circulation Units, without hydraulic integrated separator function.</b></p>
<p>ESBE GMA131</p>	<div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;">   </div> <p style="text-align: right; margin-top: 10px;"><b>Manifold for 3 Circulation Units, without hydraulic integrated separator function.</b></p>
<p>ESBE GMA221</p>	<div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;">   </div> <p style="text-align: right; margin-top: 10px;"><b>Manifold for 2 Circulation Units, with hydraulic integrated separator function.</b></p>
<p>ESBE GMA231</p>	<div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;">   </div> <p style="text-align: right; margin-top: 10px;"><b>Manifold for 3 Circulation Units, with hydraulic integrated separator function.</b></p>



## MULTIPLE INSTALLATIONS OF CIRCULATION UNITS

If more than one Circulation Unit should be used we recommend the use of Serie ESBE GMA manifold, with or without hydraulic separator.

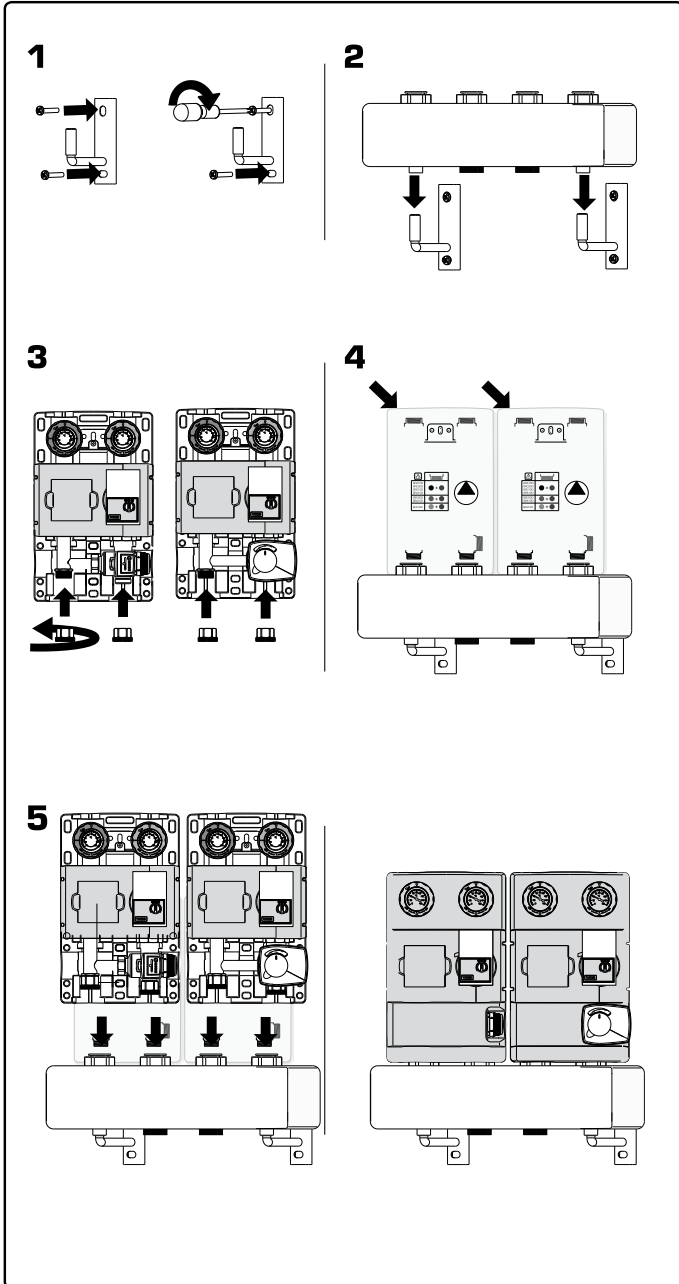
When no accumulator tank or other components performing a hydraulic separation are used, then manifold series GMA2XX should be installed.

### INSTALLATION ON THE WALL

Install the appliance on a solid wall which is not subject to vibration. It's important to position the hydraulic manifold considering its size and all the units connected.

When drilling holes in the wall for installation purposes, take care not to damage any electrical wiring or existing piping.

1. Drill holes and insert suitable plugs.
2. Mount the manifold with the submitted wall-brackets. Fix the brackets to the wall and position the manifold.
3. Mount the adapters ESBE KGT/ESBE KGR on the Circulation Unit.
4. Choose the correct position for the piping for the circulation unit by usage of the Mounting template supplied with the circulation units package.
5. Connect the circulation units to the manifold.



### CONNECTIONS

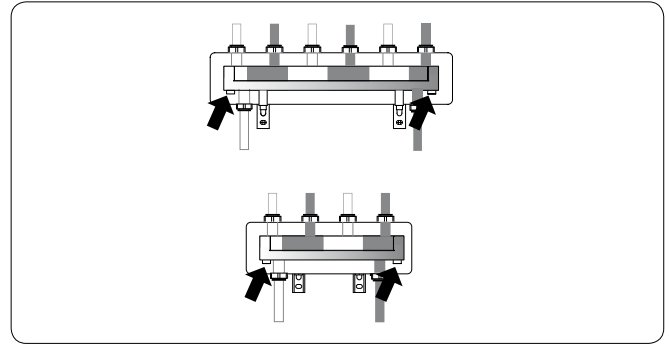
To connect the circulation units to the manifold - adapter supplied by the manufacturer is recommended.

The circulation unit has male connections G 1" on the Primary side (towards the hydraulic manifold) and female Rp 1" on the Secondary side. The manifolds have male connections G 1/2" on the Primary side and rotary nut RN 1 1/2" on the Secondary side (towards the circulation units).

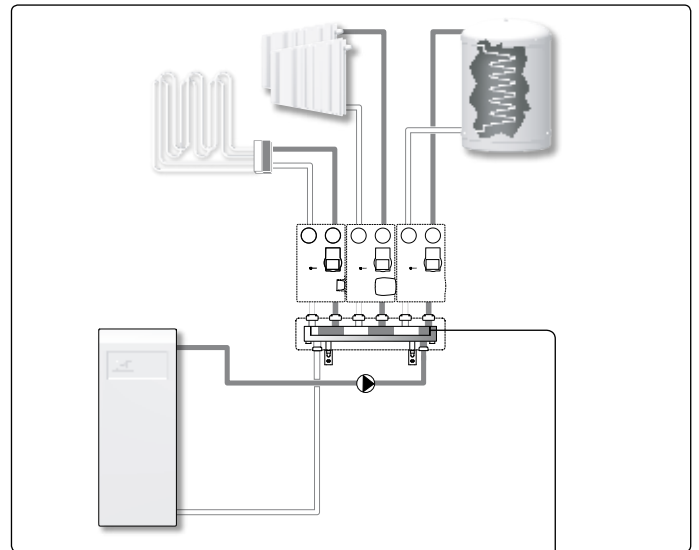
Adapters are available in two versions. Standard version KGR for most common units and a special version KGT for fixed temperature units.

### OPTIONS FOR GMA221 AND GMA231

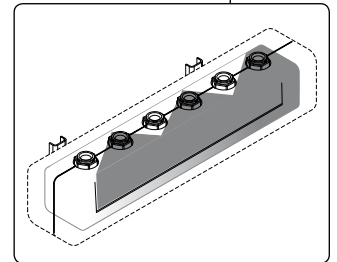
The manifolds GMA221 AND GMA231 are as standard delivered with unplugged connections to be used for accessories, such as sensing, filling, safety or draining equipment.



### i INSTALLATION EXAMPLE



All piping schematics are general representations.



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NO.1 IN HYDRONIC SYSTEM CONTROL