

# 550

compact manifolds



# 550 compact manifolds



## Application

Altectic 550 steel compact manifolds are used in heating systems to allow different heat settings in the various rooms when there is only one heat source.

The various configurations are compact and space saving, and can be easily fitted into any kind of hydraulic circuit, with the advantage of ease of installation.

The manifolds have pre-formed shell insulation to guarantee perfect thermal insulation.

| Product Code | Description              | Connections                  |
|--------------|--------------------------|------------------------------|
| 550220       | For heating 2 systems    | 1½" M x 1½" F with union nut |
| 550230       | For heating 3 systems    | 1½" M x 1½" F with union nut |
| 550240       | For heating 4 systems    | 1½" M x 1½" F with union nut |
| 550221       | For heating 2 +1 systems | 1½" M x 1½" F with union nut |
| 550205       | Hydraulic separator      | 1½" M x 1½" F with union nut |

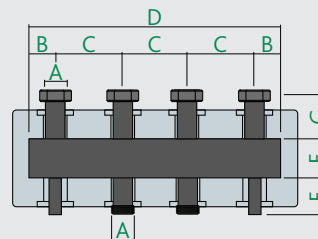
## Technical Data

|                            |                         |
|----------------------------|-------------------------|
| Body:                      | steel - painted         |
| Max working pressure :     | 6 bar                   |
| Working temperature range: | 5 to 110°C              |
| Medium:                    | water & glycol solution |
| Inlet connections:         | 1½" M                   |
| Outlet connections:        | 1½" F with union nut    |
| Threads to:                | BS EN ISO 228-1         |
| Centre distance:           | 125mm                   |

## Technical Specification of Insulation

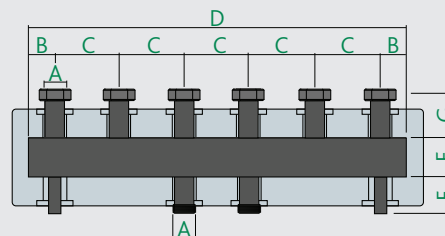
|                         |                          |
|-------------------------|--------------------------|
| Material:               | Closed cell expanded PEX |
| Thickness:              | 30mm                     |
| Density:                | 45 kg/m <sup>3</sup>     |
| Thermal conductivity:   | 0.037 W/m·K) at 10°C     |
| Reaction to fire (UL94) | class HBF                |

## Dimensions



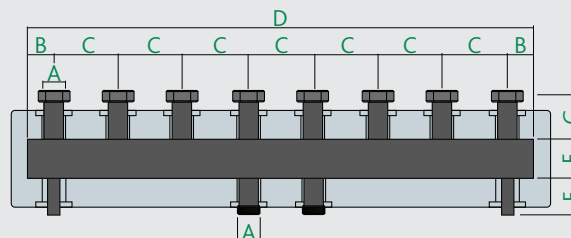
| Code   | A   | B  | C   | D   | E  | F  |
|--------|-----|----|-----|-----|----|----|
| 550220 | G1½ | 50 | 125 | 475 | 50 | 60 |

| Code   | G    | kg   | Volume - litre |
|--------|------|------|----------------|
| 550220 | 67.5 | 7.29 | 2.5            |



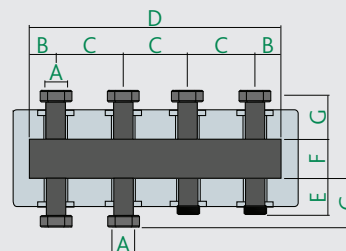
| Code   | A   | B  | C   | D   | E  | F  |
|--------|-----|----|-----|-----|----|----|
| 550230 | G1½ | 50 | 125 | 725 | 50 | 60 |

| Code   | G    | kg   | Volume - litre |
|--------|------|------|----------------|
| 550230 | 67.5 | 8.43 | 3.5            |



| Code   | A   | B  | C   | D   | E  | F  |
|--------|-----|----|-----|-----|----|----|
| 550240 | G1½ | 50 | 125 | 975 | 50 | 60 |

| Code   | G    | kg    | Volume - litre |
|--------|------|-------|----------------|
| 550240 | 67.5 | 11.87 | 5.0            |

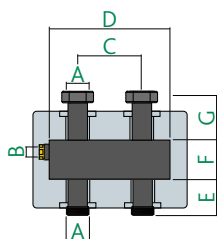


| Code   | A   | B  | C   | D   | E  | F  |
|--------|-----|----|-----|-----|----|----|
| 550221 | G1½ | 50 | 125 | 475 | 50 | 60 |

| Code   | G  | kg   | Volume - litre |
|--------|----|------|----------------|
| 550221 | 75 | 8.43 | 2.5            |

# 550 compact manifolds

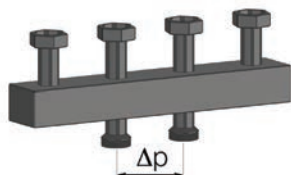
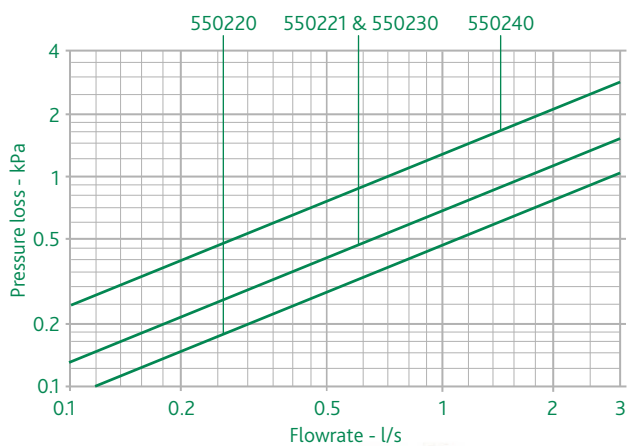
## Dimensions



| Code   | A   | B  | C   | D   | E  | F  |
|--------|-----|----|-----|-----|----|----|
| 550205 | G1½ | G½ | 125 | 210 | 42 | 60 |

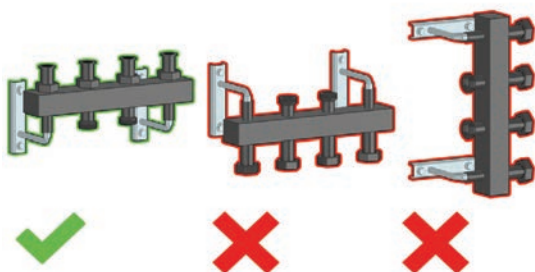
| Code   | G    | kg   | Volume - litre |
|--------|------|------|----------------|
| 550205 | 67.5 | 6.23 | 1.2            |

## Hydraulic Characteristics



The pressure loss values indicated corresponds to even flow rates distributed across the outlets.

## Installation Orientation



The centre distance of 125 mm makes it compatible with 165 series distribution units, 166 series thermostatic regulation units and 167 series motorised units.

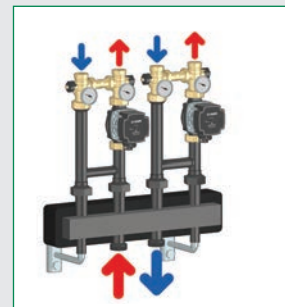
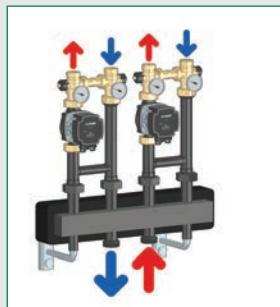
550 series manifolds can be installed horizontally, but not upside down or vertically.

550 series manifolds must be installed according to the diagrams shown, with attention to the flow and return pipe connections, for both the main connections and outlets with captive nuts.

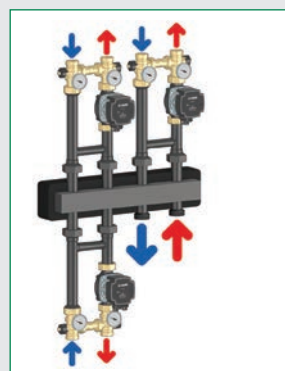
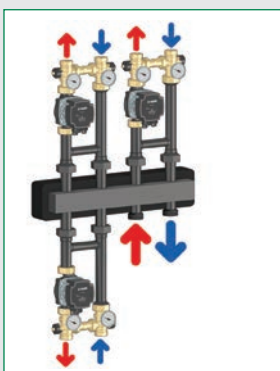
## Installation

550 series manifolds must be installed according to the diagrams shown, with attention to the flow and return pipe connections, for both the main connections and outlets with swivel nuts.

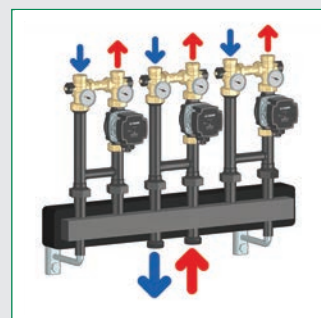
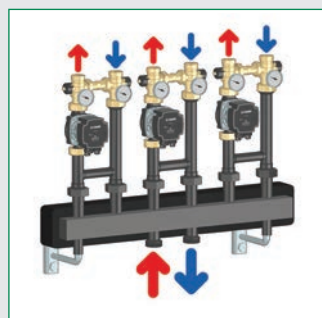
### 550220



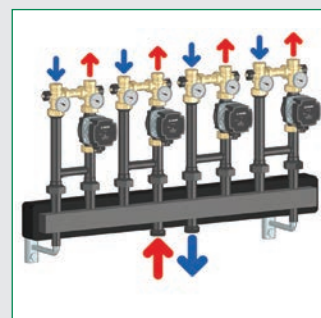
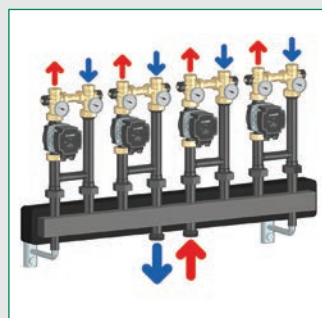
### 550221



### 550230



### 550240



# 550 compact manifolds

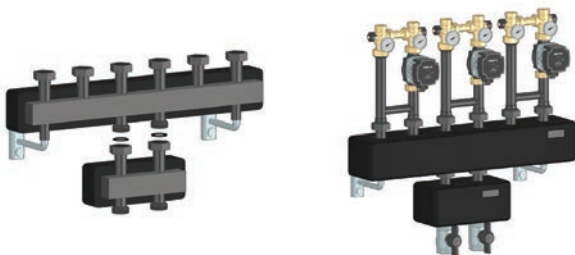
## Installation

550 series manifolds have steel brackets for easy wall mounting.

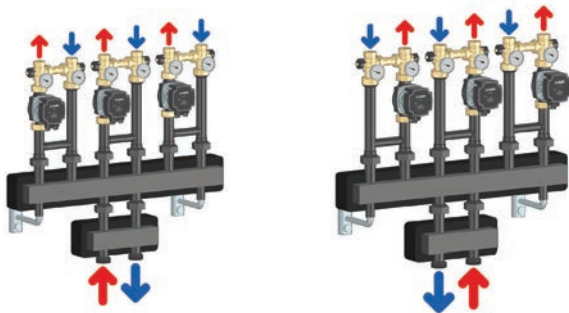


### Installation of hydraulic separator code 550205 (optional)

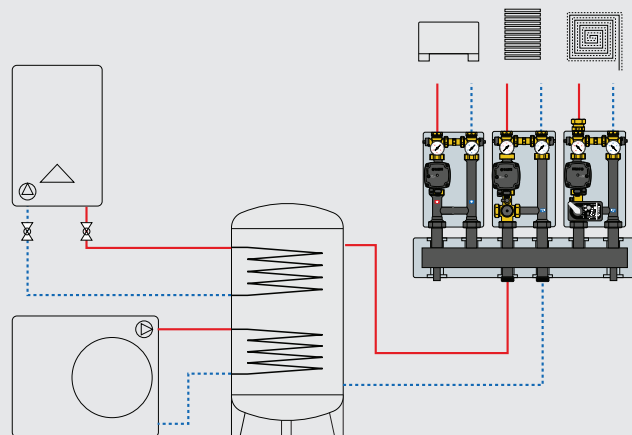
If there is a circulator on the primary circuit, it is possible to install the hydraulic separator code 555205 to make the main circuit independent from the secondary circuit.



When installing the hydraulic separator, it is essential to comply with the flow direction shown in the figures below



## Typical Application



## Accessories

| Code | Description |
|------|-------------|
|------|-------------|

|        |   |
|--------|---|
| 559001 | 1½" M<br>Pair of plugs with seal - not for use on outlets |
|--------|---|



|        |  |
|--------|--|
| 559002 | 1½" M x 1" M<br>Pair of fittings with seal |
|--------|--|



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