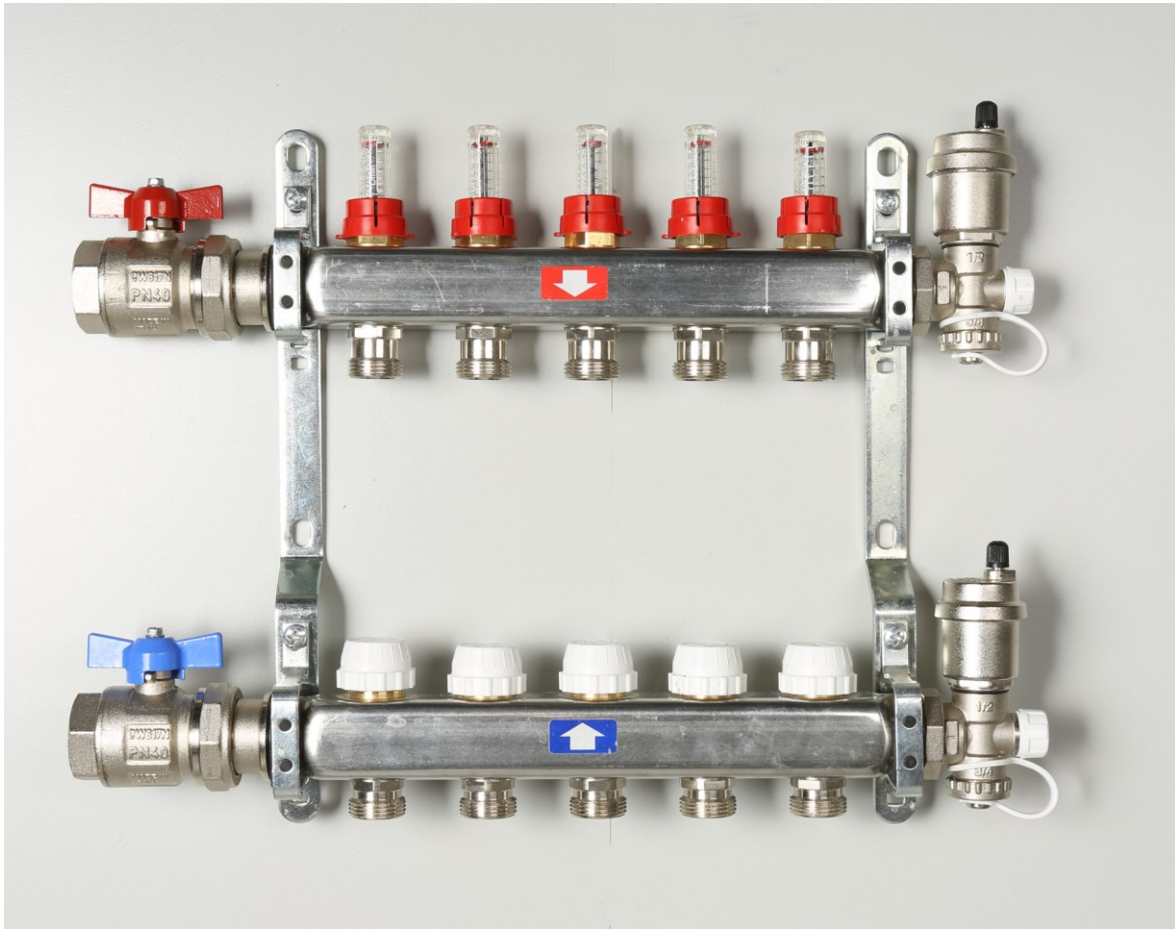


Heating Manifold Manifold Cabinets

Article No. 12202-12212

Article No. 12901-12915



III. 1: Heating manifold (5-fold in this case)

Scope of application

The high-quality stainless-steel manifold is fully pre-assembled and ready for connection. Designed for two to twelve heating circuits, it satisfies all demands concerning performance and longevity. The manifold valves are prepared for the fitting of WEM Actuators, the factory-fitted dial adjusters are required for commissioning. The air bleeders provide for the fully automatic venting of the supply and return flows. This increases operational safety and user convenience.

The pump mixing unit is designed for direct assembly to the heating manifold. One-inch male thread connections are provided for this purpose. The pump mixing unit is fitted with one-inch spigot nuts.

Function The manifold's supply and return bars are connected to the heating system (connecting thread 1" female). The individual heating and cooling circuits are fitted to the manifold bars with Euro cone screw connections. The flow meters provide for the adjustment of individual volume flows for each heating circuit (hydraulic balancing).

Installation position Horizontal, as illustrated. If you invert the manifold (connections pointing upwards) make sure that you also turn the air bleed valves so that they point upwards again. You can exchange the supply and return bars. To do this, loosen the screws on the holder.

- Benefits**
- Light-weight and durable manifold bars made of stainless steel
 - Hydraulic balancing with the well-tried top meters in the supply circuit
 - Automatic air bleeder on each manifold bar
 - Fully tested functionality including leakage test
 - Completely pre-assembled, incl. ball valve and fill-and-drain valve

Technical data

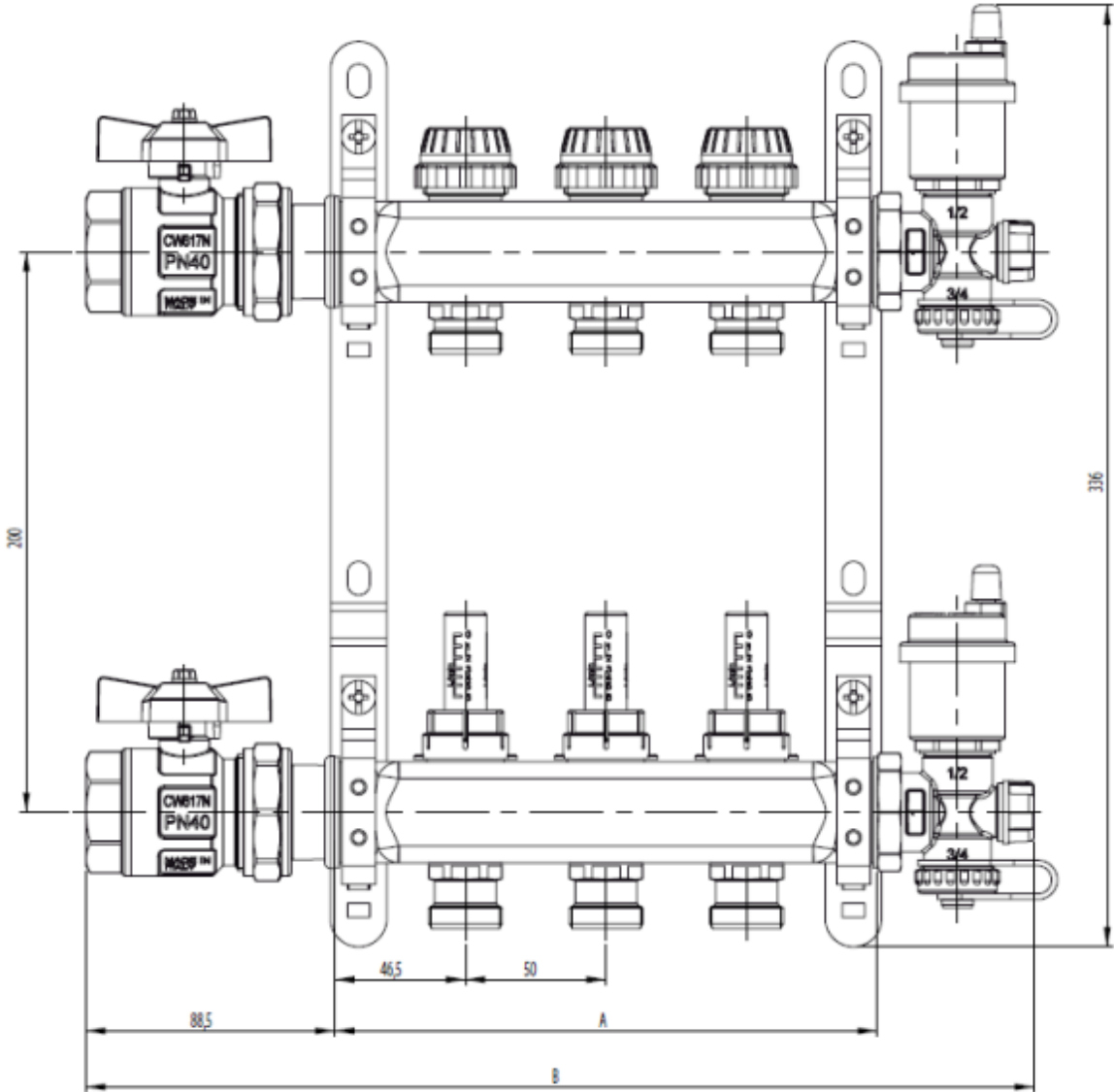
Max. heating medium temp.	70 °C
Max. operating pressure	6 bars (for pressure testing, up to 10 bars)
Heating circuit connections	3/4" Euro cone
Connection string	1" Threaded connection
Volume flows	adjustable separately for each heating circuit from 0 to 5 l/min
Heating medium	heating water as per VDI 2035; SIA Directive 384/1; ÖNORM H 5195-1

Adjustment of volume flows (hydraulic balancing)

Use the top-mounted flow meters to initially adjust the wall heating circuits. The circulation pump should be running during the adjustment work. Make sure that you open the valves in the heating circuit completely for the adjustment. If required, remove the actuators.

- Start at the flow meter of the heating circuit with the lowest volume flow.
- Pull the red safety ring off the sight glass.
- Turn the black valve spindle to adjust the calculated volume flow.
- Read the value at the red indicator in the sight glass.
- Push the red safety ring back onto the sight glass.
- Proceed the same way for all heating circuits.
- Check and correct your adjustments as required.

Dimensions:



III. 2: Technical drawing of the heating manifold

Heating circuits	Length B
2	287 mm
3	337 mm
4	387 mm
5	437 mm
6	487 mm

Heating circuits	Length B
7	537 mm
8	587 mm
9	637 mm
10	687 mm
11	737 mm
12	787 mm

Manifold Cabinets

Properties

WEM Manifold Cabinets provide protection for the heating manifold and the pump mixing unit. They are made of high-grade hot-galvanized steel sheet of 1 mm thickness. The compact design ensures stability. The Manifold Cabinets are available in two versions: for surface-mounting and for flush-mounting. Both are coated with impact-resistant powder coating (colour similar RAL 9016).



III 3: Surface-mounted Manifold Cabinet



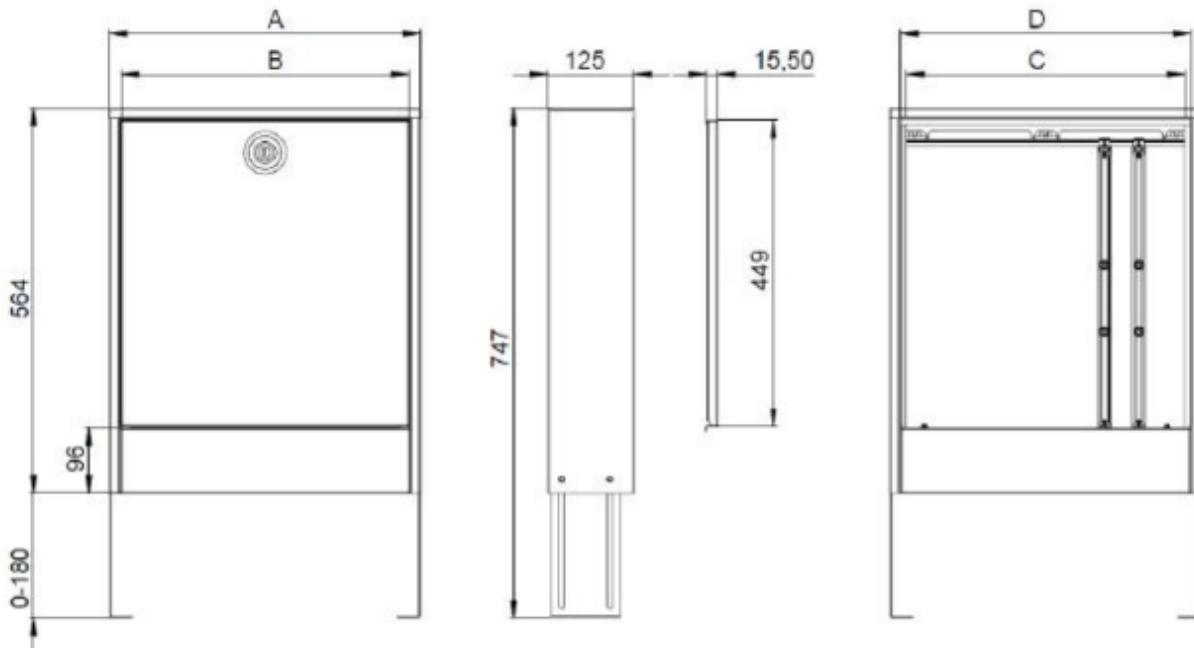
III 4: Flush-mounted Manifold Cabinet

Surface-mounted Manifold Cabinets (Article no. 12901-12905)

Properties

Surface-mounted manifold cabinet with insertable door with plastic rotary bolt lock for opening the door without additional tools. Removable screed baffle plate, 2 fixing rails to accommodate the heating manifolds.

Technical data of the surface-mounted Manifold Cabinet



III. 5

Depth 125 mm, adjustable in height from 564 to 744 mm

Article no.	Frame dimensions (A/B) mm	Internal dimensions H x W [mm]	Door dimensions (D/C) mm
12901	552 / 519	538 to 718 x 519	522 / 504
12902	652 / 619	538 to 718 x 619	622 / 604
12903	802 / 769	538 to 718 x 769	722 / 754
12904	952 / 919	538 to 718 x 919	922 / 904
12905	1102 / 1069	538 to 718 x 1069	1072 / 1054

Number of heating circuits	
Manifold ¹	Manifold and pump mixing unit ²
2 to 5	
6 to 7	2 to 3
8 to 10	4 to 6
11 to 12	7 to 9
	10 to 12

¹ Manifold with ball valve

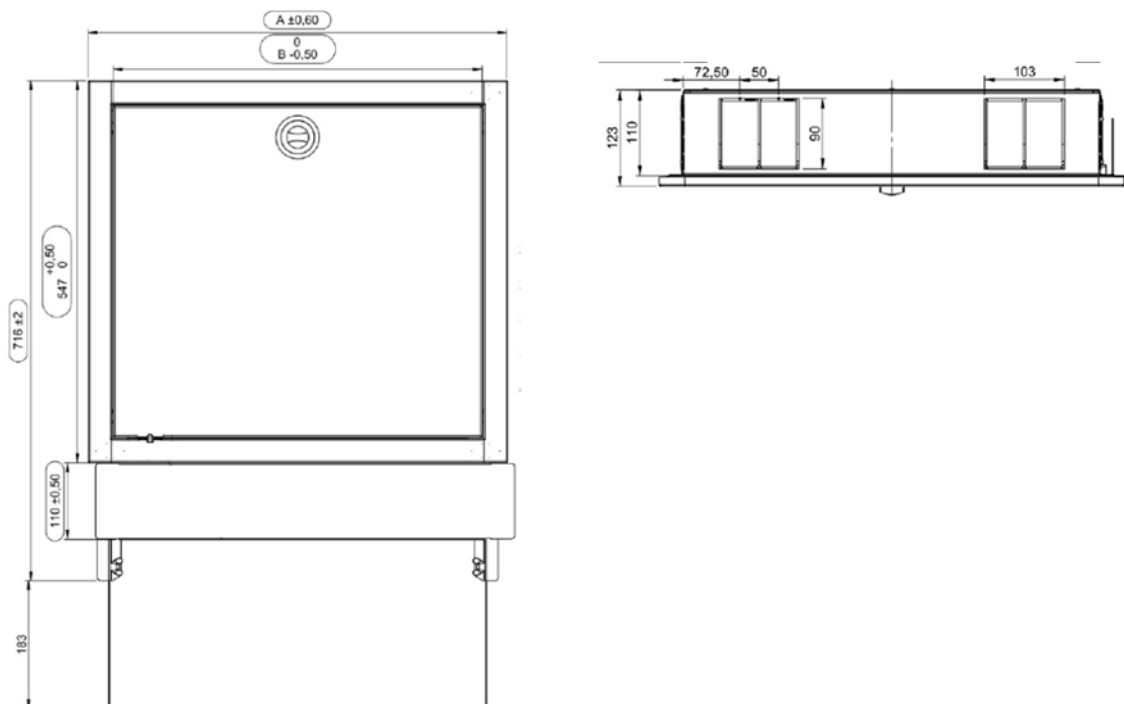
² Manifold with pump mixing unit, connections of the risers (ball valves) face the bottom

Flush-mounted Manifold Cabinets (Article no. 12911-12915)

Properties

Flush-mounted manifold cabinet with insertable door with rotary bolt lock, removable pipe deflection rail and screed baffle plate in white lacquer finish. Two fixing rails (575 mm) to hold the heating manifolds with self-locking bolts in the retaining rail and to prevent slipping, also in the vertical position.

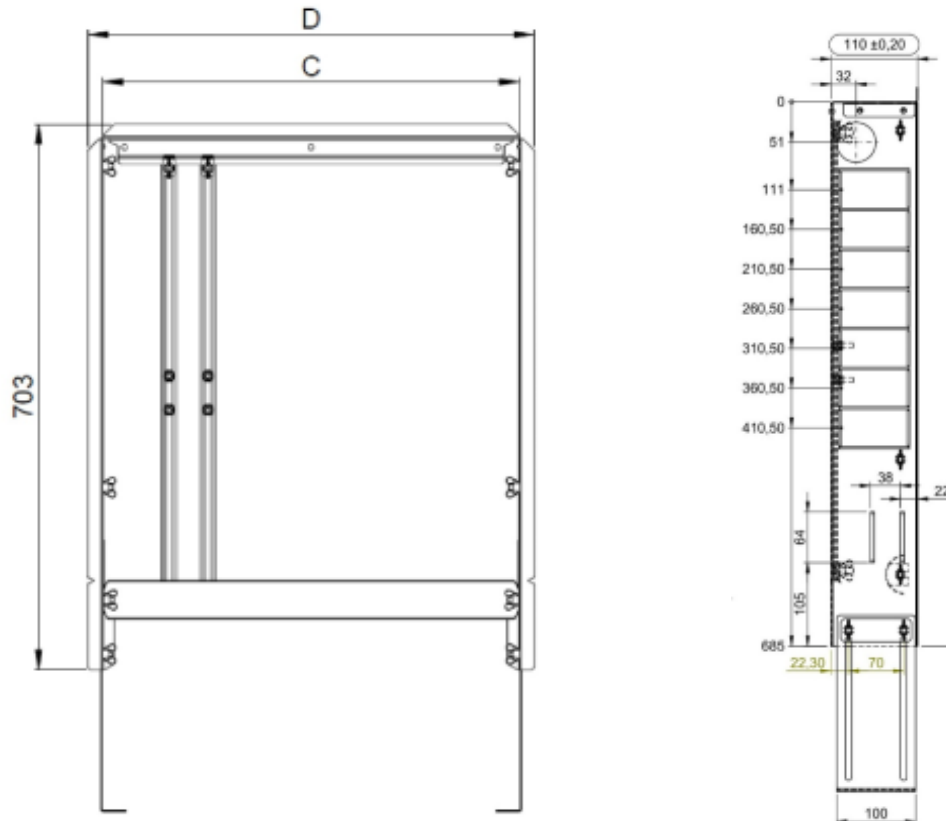
Technical drawing of the door of the flush-mounted Manifold Cabinet:



Door dimensions:

Article no.	Frame dimensions (A) W x H [mm]	Door dimensions (B) W x H [mm]
12911	513 / 547	441 / 475
12912	598 / 547	526 / 475
12913	748 / 547	676 / 475
12914	898 / 547	826 / 475
12915	1048 / 547	976 / 475

Technical drawing of the body of flush-mounted Manifold Cabinet:



III. 7

Body dimensions: Depth adjustable from 110 to 140 mm, adjustable in height from 703 to 883 mm

Article no.	External cabinet dimensions (D) [mm]	Internal cabinet dimensions W (C) x H [mm]	Recess dimensions W x H [mm]	Number of heating circuits	
				Manifold ¹	Manifold and pump mixing unit ²
12911	489	449 x 687 to 867	509 / 726 to 910	2 to 4	
12912	574	534 x 687 to 867	594 / 726 to 910	5 to 6	
12913	724	684 x 687 to 867	744 / 726 to 910	7 to 9	2 to 4
12914	874	834 x 687 to 867	894 / 726 to 910	10 to 12	5 to 7
12915	1024	984 x 687 to 867	1044 / 726 to 910		8 to 12

¹ Manifold with ball valve

² Manifold with pump mixing station