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Manifold with a low-loss header BLH 890 for BPS pump groups

NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

WARNING!



Manifold with a low-loss header BLH 890 may only be installed, commissioned, and dismantled by trained personnel.

Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

APPLICATION

The manifold with a low-loss header BLH 890 is designed for installation with BPS pump groups and serves for hydraulic separation of heat source circuits and heating circuits in systems compliant with PN-EN 12828.

The use of a low-loss header in the system ensures proper hydraulic conditions for the operation of circulation pumps by balancing the flow rates. This guarantees smooth operation of both the system and the heat source, even when some receivers are switched off, and it extends the service life of the circulation pumps.

Thanks to its design and properties, the low-loss header also facilitates air venting and dirt separation, which can be removed via the KFE drain valve.

PREDICTABLE INCORRECT APPLICATION

Do not use the manifold with a low-loss header BLH 890 in the following cases and with the following media:

- a mix of water and glycol with a glycol concentration greater than 50%, vapour, oil, petrol, drinking water;
- for safety-related purposes.

DESCRIPTION AND SCOPE OF DELIVERY

The manifold with a low-loss header BLH 890 is made of a galvanised steel housing with a built-in manifold, enabling connection of 3 heating circuits. The built-in flow regulator allows for achieving equalised supply medium temperatures in individual circuits. In addition, the BLH 890 manifold is fitted with a manual air vent and a KFE drain valve.

The manifold is also supplied with a wall bracket.

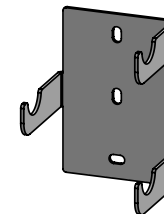
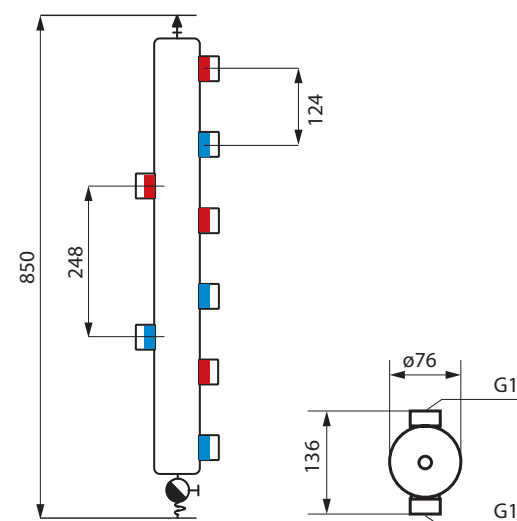


Fig. 1. Wall bracket for BLH 890 manifold

DIMENSIONS [mm]



MOUNTING

Before installing the BLH 890, flush the system thoroughly, paying particular attention to removing any solder residue, pipe cutting debris, etc. We recommend equipping the system with proper filters and a magnetic dirt separator.

The BLH 890 should be installed vertically so that the manual air vent is at the top and the drain valve is at the bottom. The manifold should be hung using the wall bracket provided. The bracket should be fixed to the wall using proper mounting plugs, which are not included in the set. The heat source should be connected to the low-loss header using G1" threads, paying attention to their markings. Connect the supply to the thread marked red, and the return from the system to the thread marked blue. Connect individual circuits going out to the system to the connections on the other side of the manifold according to the markings on the threads: red = supply, blue = return from the system (Fig. 2, Fig. 3).

The BLH 890 manifold can be installed horizontally, but in this position it will be difficult to vent the system using the manual air vent on the housing. Therefore, an air vent (e.g. Art.-Nr 77 735 10) should be installed at another location in the system.

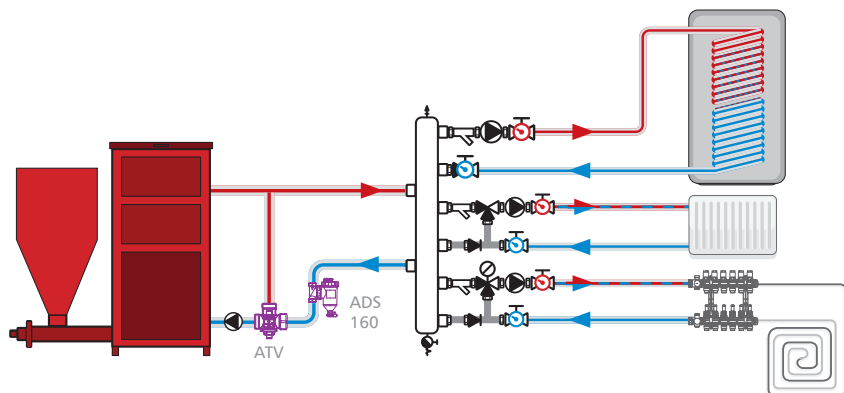


Fig. 2. Example diagram of connecting the BLH 890 manifold with a low-loss header to a solid fuel boiler and BPS pump groups

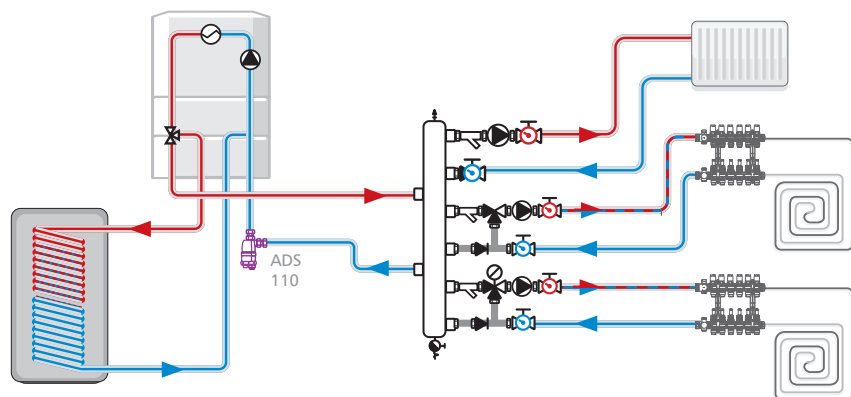


Fig. 3. Example diagram of connecting the BLH 890 manifold with a low-loss header to a gas boiler and BPS pump groups

TECHNICAL DATA

Parameter	Value / material
Connections to the installation	G1"
Accessory connections	G1/2" F
Flow	max 4,0 m ³ /h
Capacity	max 70 kW at $\Delta T = 15K$
Set operating pressure	max 6 bar
Set operating temperature	max 90°C
Nominal pressure of the low-loss header (without additional equipment)	PN16
Operating temperature of the low-loss header (without additional equipment)	max 110°C
Glycol concentration	max 50%
Low-loss header housing	galvanised steel
Manual air vent	G1/2"
Drain valve KFE	nickel-plated, G1/2"

MAINTENANCE

Connections should be checked for tightness periodically. At regular intervals, it is recommended to use the KFE drain valve and the manual air vent to remove air and dirt from the system.

APPROVALS AND CERTIFICATES

The manifold with a low-loss header BLH 890 is subject to the Pressure Directive 2014 /68/EU and is not CE marked in accordance with Article 4.3 (recognised engineering practice). The product is marked with the B construction mark, in accordance with the regulations in force in Poland.

DECOMMISSIONING, DISPOSAL

1. Dismount the product.
2. Dispose of the product according to local directives and guidelines.

The product is built from recyclable materials.

If you have any questions or problems with disposal, please contact the appropriate distributor or manufacturer's point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.

ACCESSORIES

Two-piece insulation for the BLH 890 manifold made of XLPE insulation foam effectively reduces heat loss.



Art.-Nr 90 800 06