



Heat pump service combination

benefits

- Filling and flushing unit including hose connections
- Separation via magnetite sludge separator
- Integrated shut-off valves
- Large flow range



Application

For integration into closed heating systems and manifold systems, independent of the heat generator.

Description

As per VDI 2035, heating systems must be filled with treated heating circuit water. In addition, high-performance heat transfer media and/or frost protection agents are increasingly being used. Regardless of whether a new heating system is installed or an existing one upgraded, flushing the system is essential to remove contamination and ensure efficient operation. This requires a filling and flushing unit to be installed. For subsequent operation, the installation of a magnetite sludge separator is state of the art to ensure separation of contaminants such as magnetite on an ongoing basis. It is advisable to install shut-off elements to allow for easy cleaning the magnetite sludge separator. Practically all heat generators already feature electronic displays for the flow rate and system pressure. Nevertheless, a mechanical flow meter and a classic pressure gauge are helpful in monitoring the initial filling of the system and in checking the flow rate and system pressure during subsequent service work. Installing these components individually can lead to space problems. This often results in important fittings being installed in a poorly accessible location, which makes them difficult to operate later on. Installing, sealing and insulating the individual components requires a great deal of effort. A resulting additional pressure loss in the complete system can be avoided by using AHS.

Additional Informations

Function

The heat pump service combination combines all the functions of the individual components described in a compact unit and offers a practical solution covering the entire life cycle of the system:

During **installation or maintenance**, the combination can be used for flushing and filling of the system. The supplied hose connections are screwed on instead of the separator or filter.

During operation, the connections are used to accommodate the sludge separator or filter. Thanks to the integrated ball valves, both connections can be reliably closed for conversion, dismantling and cleaning. The flow meter provides information on the actual flow rate. An optional pressure gauge can be fitted from both sides, depending on the mounting position) to allow a **quick visual inspection**.

The form-fit thermal insulation pieces (accessories) optimally reduce heat losses and save time during installation.

Technical Specifications

material

Housing: Brass/plastic (PA66 GF 30)
seals: EPDM
Filter sieve: Stainless steel
Connection pieces: Brass

Operating pressure

max. 3 bar

Flow coefficient Kvs

6.9 m³/h

Operating temperature range

Medium: max. 90 °C

Dimensions

W x H x D: 243 x 296 x 89 mm

Connection

G1 female

Filter mesh size

500 µm, 800 µm

Magnet insert

Neodymium 1.4 T

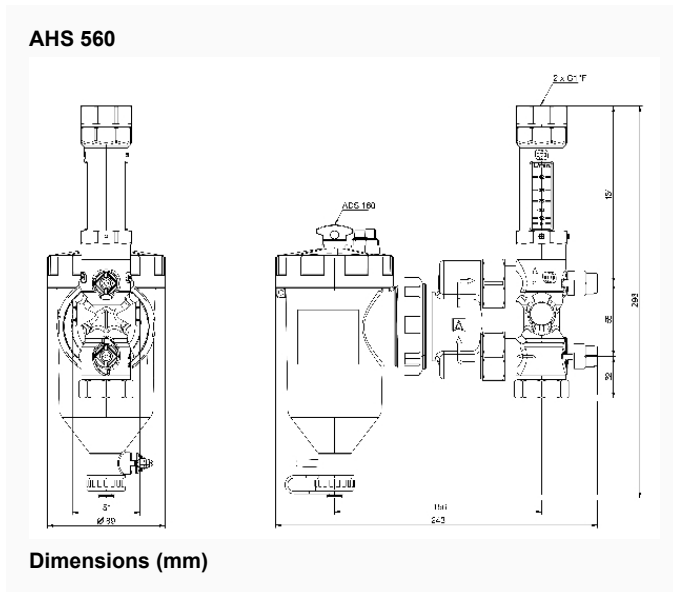
Mounting position

any,
Separator head can be rotated

Mounting place

Preferably in return line to heat generator

Technical Drawings



Versions

Part no.

Heat pump service combination
AHS 560

7756000

- in-stock items
- Non-stock items