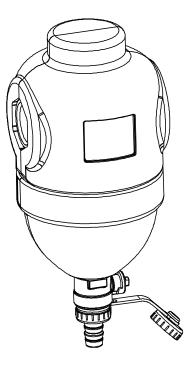


Operation Manual Sludge separator with magnet and insulation



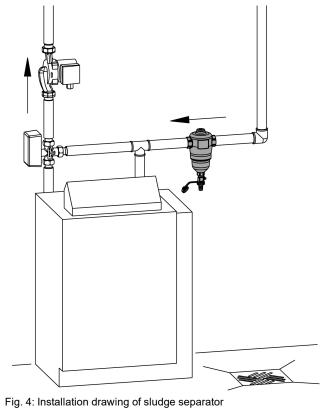
Edition August 2017 Order no. 707 952-inter 046



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6 | Start-up

Deaeration. Check for tightness.

7 | Inspection / If necessary, rinse the sludge from the sludge separator by opening the Maintenance ball valve.

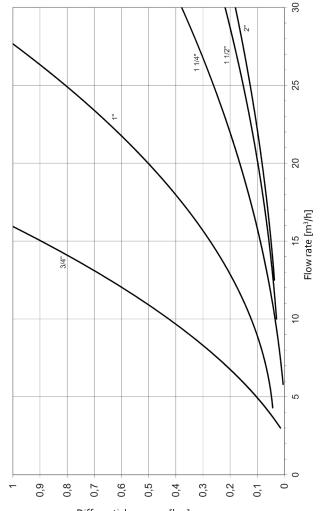
> After discharging the sludge, it might be necessary to refill the heating system. When doing so, observe VDI 2035.

Attention! Risk of scalding

The surface of the system and/or the backwash water may cause scalding due to the high operating temperature.

8 | Accessories

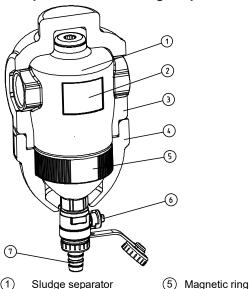
Designation	Order no.
Automatic deaerator	please inquire



Differential pressure [bar]

Fig. 3: Pressure loss curve

Components of the sludge separator



- Sludge separator
- Type designation
- (3) Upper Insulation
- Ball valve
- (7) Hose socket
- (4)Lower Insulation
- Fig. 1:Components of the sludge separator

General information

Our systems must be installed by an approved sanitary and heating company.

Check the components for transport damage.

In case of excessive sludge, the heating system must be checked for corrosion damage.

The magnetic ring does not change the hydraulic properties.

1 | Designated application

In heating systems, in particular in old systems, the circulation of polluted water causes premature wear and tear and damage to components such as pumps and regulating valves. Furthermore, it clogs heat exchangers, radiators and pipes and thus causes a reduced thermal efficiency of the

system. The sludge separator effectively removes even very small particles (mainly sand and rust particles) at a very low pressure loss. The interior element (see Fig. 2, item 1) consists of several, radially arranged nets.

The impurities contained in the water hit these nets, are separated and then sink to into the lower part of the housing (see Fig. 2, item 2).

The magnetic ring (see fig. 2, pos. 3) improves the separation of ferrous impurities. The magnetic ring can also be removed from the housing to discharge the deposited impurities by opening the ballcock (see fig, 2, pos. 4), even whilst the system is running.

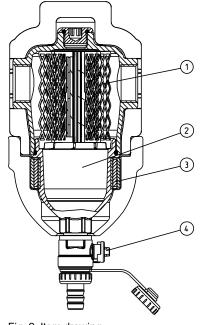


Fig. 2: Item drawing

2 | Technical specifications

Sludge separator		3/4"	1"	11⁄4"	1 ½ "	2"
Connection diameter	[f thr]	R 3⁄4"	R1"	R1¼"	R1½"	R2"
Nominal connection diameter	[DN]	20	25	32	40	50
Settling capacity (depending on composition of sludge), max.	[µm]	5				
Max. flow at 1.2 m/s	[m³/h]	1.36	2.11	3.47	5.42	8.20
Nominal pressure		PN 10				
Max. water temperature	[°C]	110				
Max. glycol concentration	[%]	50				
Installation length	[mm]	110		124		127
Total height	[mm]	248		268		
Weight empty	[kg]	1.9		2.2		2.4
Order no.	707	705	710	715	720	725

3 | Installation requirements

Observe the local installation regulations as well as the technical specifications.

Install the device free of strain. The dirt trap has to be installed in pipes of similar dimensions as its nominal diameter.

- 4 | Scope of supply Sludge separator made of brass with magnetic ring
 - Hose socket for hose connection

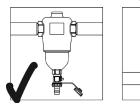
The sludge separator must be

installed in a horizontal pipe, pref-

erably in the return of the circula-

- Insulation •
- Operation manual •

5 | Installation



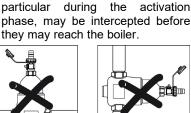


Fig. 3: Installation of a sludge separator