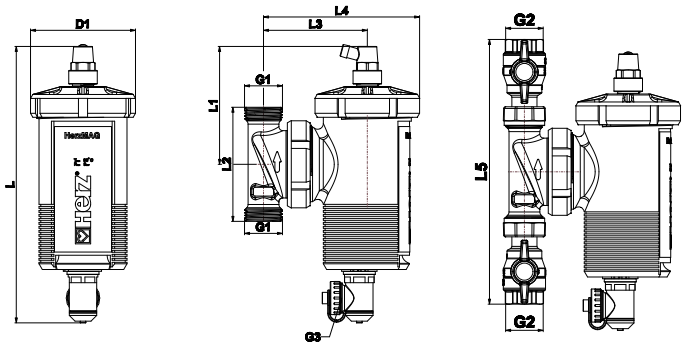
HERZ - Air magnetic filter

Datasheet **1 1124 1X** , Issue 0526
Datasheet **1 1301 0X** , Issue 0526

Dimension



Order Nr.	DN	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	D1 [mm]	G1 [in]	G2 [in]	G3 [in]	BV*
1 **1124** 12	20	215	103	100	90	136,8	/	Ø92	1"	/	3/4"	x
1 **1124** 13	25	215	103	100	90	136,8	/	Ø92	1-1/4"	/	3/4"	x
1 **1301** 02	20	215	103	100	90	136,8	230	Ø92	/	3/4"	3/4"	✓
1 **1301** 03	25	215	103	100	90	136,8	247	Ø92	/	1"	3/4"	✓

*Ball valves included

Material and construction

Body	PA66-GF30
Upper nut	PA66-GF30
Air vent	forged brass acc. to EN 12165, nickel plated, CW617N
Mesh	Plastic
Nut T-piece	PA66-GF30
T-piece	forged brass acc. to EN 12165, nickel plated, CW617N
Handle for magnets	PA66-GF30
Ball valve housing	forged brass acc. to EN 12165, nickel plated, CW617N
Sealing	EPDM
Magnet	2 neodymium magnets (2 x 12.000Gs)

Operating data

Operating temperature	0-90°
Medium	Heating water quality according to ONORM H5195 or VDI-Standard 2035. The use of ethylene or propylene glycol in a mixing ratio 25- 50%is allowed. Please refer to manufacturers documentation when using ethylene glycol roducts for frost and corrosion protection. Please note that EPDM gaskets will be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals in the valves that use EPDM seals. The HERZ ball valve for heating and chilled water is not suitable for usage of agressive medium (such as: acids, alkalis, combustible and explosive gases..) because it can destroy sealing components.
Maximum pressure	PN 3 bar

Connections

T-piece	1", 1-1/4" (external thread)
Ball valves	3/4", 1" (internal thread)

Disposal instruction

The disposal of HERZ ball valves for heating and chilled water must not endanger the health or the enviroment. National legal regulations for proper disposal of the HERZ ball valves for heating and chilled water have to be followed.

Brass

HERZ use top-quality brass that responds to the latest European norms DIN EN 12164, DIN EN 12165 and DIN EN 1982. Housings of ball valves are made from brass due to its good strenght, excellent corrosion resistance and variety of other properties.

Field of application

The HerzMag is installed in the heating circuit. It is used to filter out iron impurities and bleed off air. This prevents malfunctions and damage to heating and cooling systems. High efficiency for the whole heating system is ensured. Using the HerzMag ensures permanent, trouble-free air venting.

Functional principle

The air vent is integrated into HerzMag for the separation of air. The shape of the HerzMag has been specially developed in order to reduce sensibly the flow speed. As a consequence air and microbubbles can rise and are evacuated through the air vent. In the same way, the iron impurities are directed down to the outlet located on the bottom of the device, which is equipped with a drain valve. This is also supported by the magnet, whose position allows a perfect catching function.

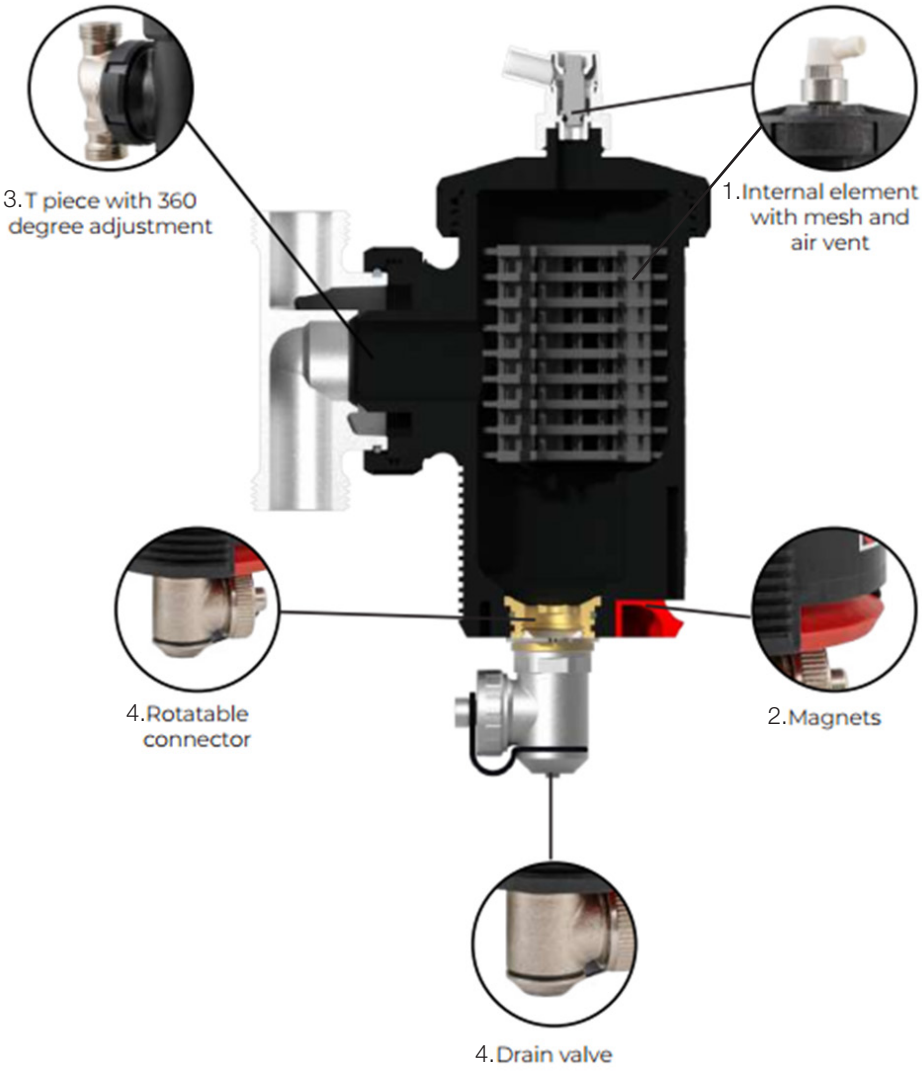
Special product features

1. **Air Separator and dirt Separator:** The velocity of the liquid when entering the filter is significantly reduced due to the specially designed construction of the housing and the inner insert. This allows dirt and metal particles to accumulate on the bottom of the housing. At the same time, air bubbles are formed, which accumulate on the top of the housing. Only these are released from the housing with the venting valve.

2. **Integrated Magnet:** for the collection of ferromagnetic particles, which are in the water. Separation without draining the system is possible.

3. **T piece with 360 degree adjustment:** heavy duty construction made from high quality brass

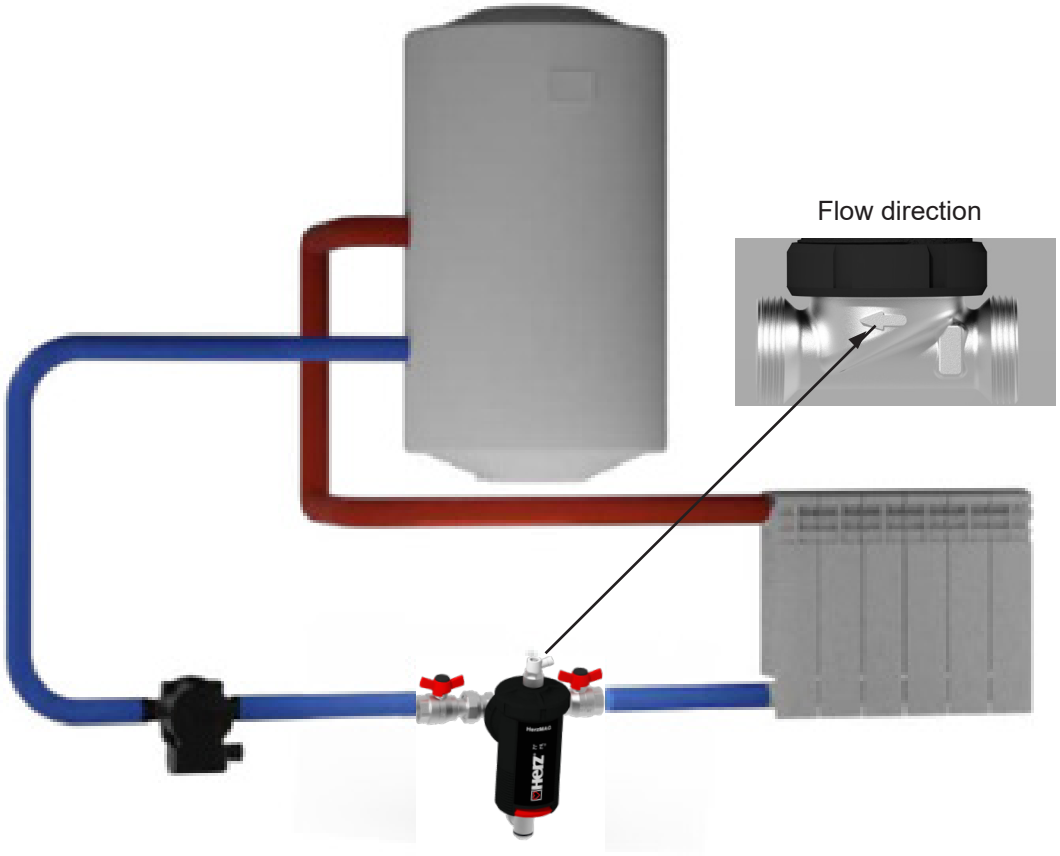
4. **Drain and filling valve:** it is rotatable 360° and it serves to drain, clean or fill the heating system.



Assembly instructions

The HerzMag can be installed on any angle of the pipeline.

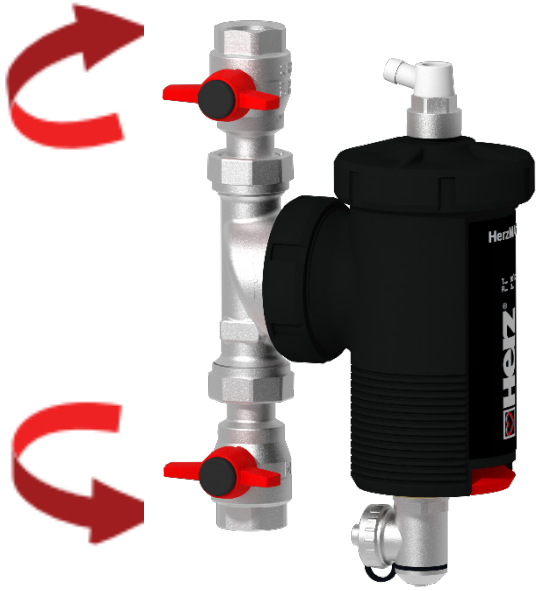
It is preferably installed on the return circuit upstream after the radiator before the boiler and circulation pump so that the particles can be caught before they reach the boiler and circulation pump. When installing in the system, it is necessary to consider the flow's direction, which is shown on the brass T - piece.



Maintenance instruction

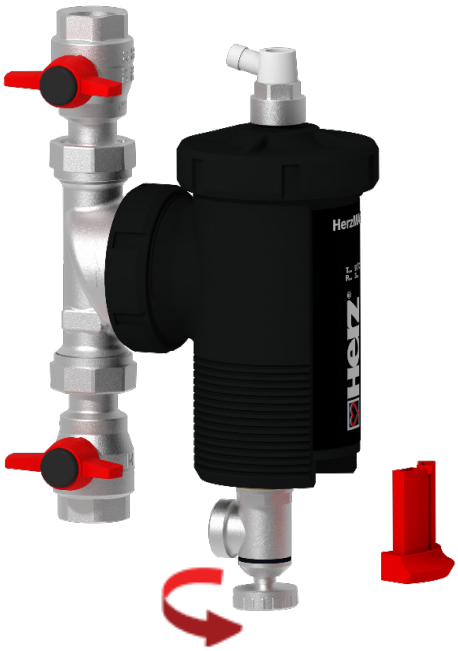
The HerzMag needs to be maintained on a regular basis as a function of the liquid's composition and quality. It should therefore be installed at locations of the system that are easy to access. According to EN 806-5 valves should always be in their fully opened or closed position and actuated at regular intervals to ensure they remain operational. Therefore HERZ Ball valves must be closed and opened for several times periodically every six months. This prevents the ball valve from blocking, reduces sediment deposition and reduces the possibility of corrosion inside the valve.

1. Close the valves, open air vent



2. Remove the magnets

3. Open the drain valves



4. Open the valves to push the filter
The same valve can also be used to fill the system.

5. Ensure the valve is reassembled in reverse sequence after cleaning.

Spare parts

Illustration	Description	Item number
	Sealing set	1 **6890** 02
	Insert with magnets	1 **6859** 96
	Air vent	1 **6383** 27
	Ball valves DN20 Nickel plated	1 **2211** 44
	Ball valves DN25 Nickel plated	1 **2211** 45