

MAG

Magnetite/Air Separator

TTM MAG 160

Magnetite, air and particle separator

Installation, operating and maintenance instructions



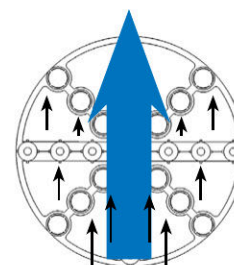
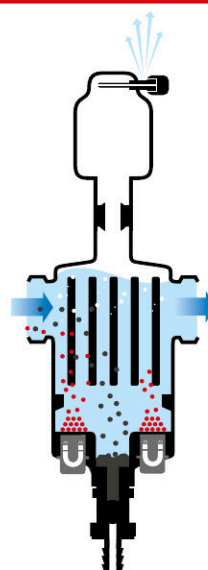
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Function

TTM MAG 160 magnetite, air and particle separator effectively removes particles (magnetic and non-magnetic), dirt and free air/microbubbles during continuous operation from the system fluid in heating and cooling systems.

Particles and dirt are separated from the system fluid through a filter cassette, which effectively collects particles and drives them down into a particle trap. The magnetite is collected using a powerful magnetic rod placed in the bottom of the housing.

TTM MAG 160 MA is also equipped with an air separator with reducing the flow speed in the housing, bubbles are then released from the flow and can rise upwards. The air is regularly released when the air pressure rises.



Section through the filter cassette. Blue arrows show the flow speed and black arrows the decreasing particle speed.

Installation

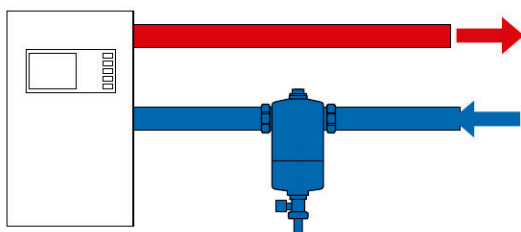
Check that TTM MAG 160 M/MA has not been damaged during delivery and that the unit is whole. Report any transport damage immediately.

Connection

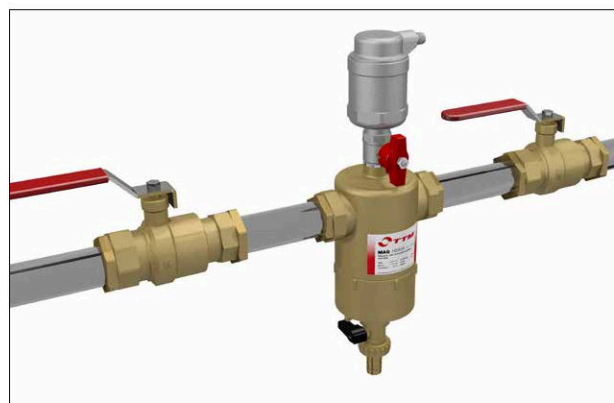
Connection is by internal 1¼" or 1½" thread, PN10.

Installation

TTM MAG 160 is installed on the return line in heating and cooling systems before vital system components such as heat exchangers, boilers, pumps, chillers etc.



TTM MAG 160 can only be installed horizontally independent of flow direction.



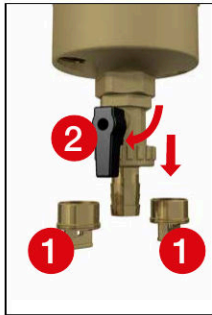
Maintenance



Due to the two installed magnets, people with pacemakers and similar devices should remain at a safe distance from the product. Care should also be taken when positioning electrical products, as these can be disrupted or damaged by the magnetic field.

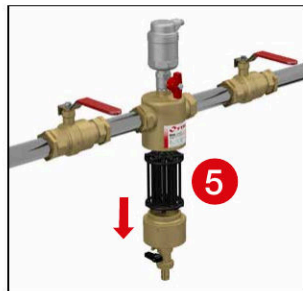
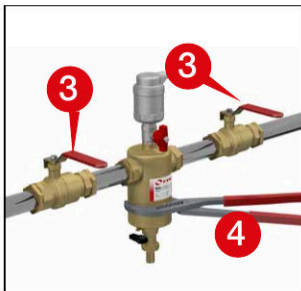
TTM MAG 160 M/MA requires regular cleaning.

1. Remove the two magnets by undoing the screw and then drawing out the magnet (1).
2. Open the drain tap (2) in the bottom and empty the collected particles and dirt into a bottle or similar.



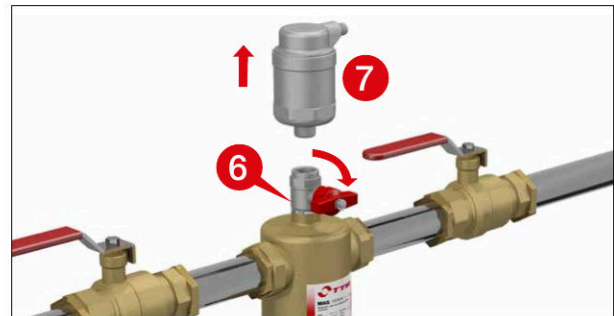
Dismantling the separator housing

1. Fully switch off the water flow before and after the separator (3).
2. Unscrew the lower part of the housing using a plumber's wrench (4).
3. Remove the filter cassette (5).



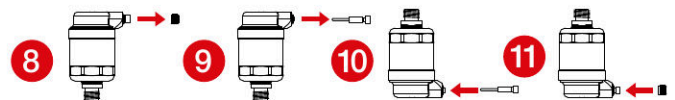
Dismantling the air separator (TTM MAG 160 MA)

1. Close the shut-off valve under the air separator (6).
2. Unscrew the air separator (anti-clockwise) and allow to cool (7).



In the case of leakage in the air separator

1. Dismantle the air separator according to the instructions (6, 7).
2. Unscrew the vent cap (8).
3. Unscrew the vent insert (9) with a 4 mm allen key.
4. Clean or replace the vent insert.
5. Turn the vent upside down and install the insert (10).
6. Reassemble the vent cap (11).
7. Reassemble the air separator.

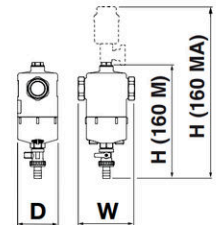


If the air separator leaks fluid, it needs to be cleaned or replaced.

Technical data

Separator housing

Upper plug: CW617N Brass
Lower tap: CW617N Brass
O ring: EPDM
Filter cartridge: PA6
Nominal pressure: 10 bar
Housing material: CB753S Brass



TTM MAG 160 - Magnetite, air and particle separator

Model	Connection	Pressure class	Temperature °C	Material (housing)	Kv-value (m³/h)	Max flow (l/s)	(m³/h)	Dimensions (mm) W x H x D	Art. no.
MAG 160 M 32	G1¼" int.	PN10	0 - +110	Brass	32.4	1.4	5.5	119 x 244 x 77	515 432
MAG 160 MA 32	G1¼" int.	PN10	0 - +110	Brass	32.4	1.4	5.5	119 x 384 x 77	515 456
MAG 160 M 40	G1½" int.	PN10	0 - +110	Brass	40.6	1.4	7.4	119 x 244 x 77	515 449
MAG 160 MA 40	G1½" int.	PN10	0 - +110	Brass	40.6	1.4	7.4	119 x 384 x 77	515 463
MAG 160 M 50	G2" int.	PN10	0 - +110	Brass	73.2	1.4	9.9	126 x 245 x 81	520 979
MAG 160 MA 50	G2" int.	PN10	0 - +110	Brass	73.2	1.4	9.9	126 x 385 x 81	520 986