

MAG

Magnetite/Air Separator

TTM MAG 210 A

Air separator

Installation, operating and maintenance instructions

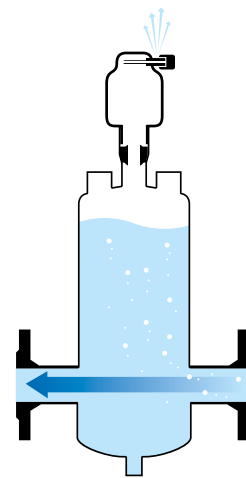


2022-08

Function

TTM MAG 210 A air separator effectively removes air and micro-bubbles from the system fluid in heating and cooling systems.

Air is separated from the fluid and rises to the top of the separator housing, to be released when the air pressure rises. The air and micro-bubbles are released by the flow speed in the housing being reduced, allowing the bubbles to rise upwards.

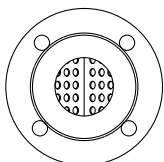


Installation

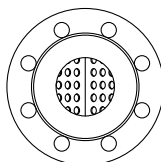
Check that TTM MAG 210 A has not been damaged during delivery and that the unit is whole. Report any transport damage immediately.

Connection

Connection is carried out via flange according to EN 1092-1 PN16. The flange for DN 50 has 4 mounting holes and the flange for DN 65, DN 80 and DN 100 has 8 holes.



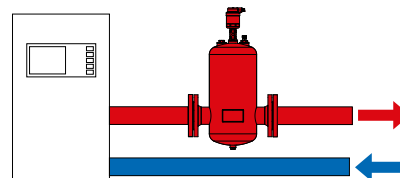
DN



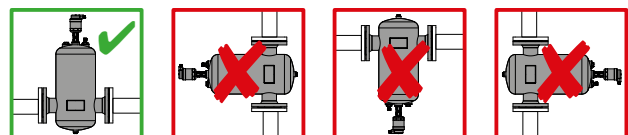
DN 65, DN 80 and
DN 100.

Installation

TTM MAG 210 A is installed on the pipe in heating and cooling systems after vital system components such as heat exchangers, boilers, pumps, chillers etc.



The separator must always be installed in the horizontal flow direction.



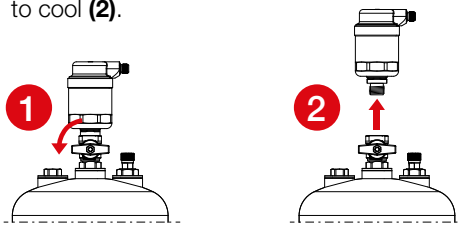
Maintenance

TTM MAG 210 A requires no regular maintenance other than an annual inspection and functional check. If the system fluid contains dirt and particles, the vent function should be reviewed regularly.

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

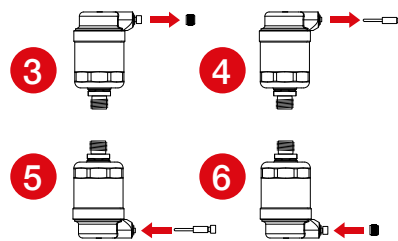
Dismantling the air separator

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



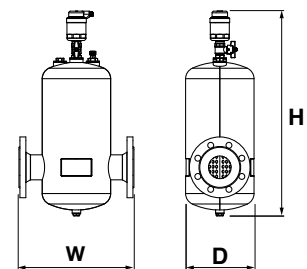
In the case of leakage in air separator

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



Technical data

Upper plug:	CW617N Brass
Lower tap:	CW617N Brass
O ring:	EPDM
Insulation:	PPE
Nominal pressure:	10 bar
Housing material:	Painted steel (EN 1.0332)



Model without insulation	Connection	Pressure class	Temperature °C	Material (housing)	Flow (Max m³/h)	Dimensions (mm) W x H x D	Art. no.
MAG 210 A 50F	DN50 Flange	PN10	0 – +110	Steel	9,2	344 x 623 x 178	510 789
MAG 210 A 65F	DN65 Flange	PN10	0 – +110	Steel	15,5	344 x 623 x 178	510 796
MAG 210 A 80F	DN 80 Flange	PN10	0 – +110	Steel	23,5	511 x 763 x 283	510 802
MAG 210 A 100F	DN 100 Flange	PN10	0 – +110	Steel	36,8	511 x 763 x 283	510 819
MAG 210 A 125F	DN 125 Flange	PN10	0 – +110	Steel	60,6	580 x 888 x 364	515 470
MAG 210 A 150F	DN 150 Flange	PN10	0 – +110	Steel	89,8	580 x 888 x 364	515 487

Model with insulation	Connection	Pressure class	Temperature °C	Material (housing)	Flow (Max m³/h)	Dimensions (mm) W x H x D	Art. no.
MAG 210 A 50FI	DN50 Flange	PN10	0 – +100	Steel	9,2	344 x 623 x 208	510 826
MAG 210 A 65FI	DN65 Flange	PN10	0 – +100	Steel	15,5	344 x 623 x 208	510 833
MAG 210 A 80FI	DN 80 Flange	PN10	0 – +100	Steel	23,5	511 x 763 x 313	510 840
MAG 210 A 100FI	DN 100 Flange	PN10	0 – +100	Steel	36,8	511 x 763 x 313	510 857
MAG 210 A 125FI	DN 125 Flange	PN10	0 – +100	Steel	60,6	580 x 888 x 394	515 531
MAG 210 A 150FI	DN 150 Flange	PN10	0 – +100	Steel	89,8	580 x 888 x 394	515 548