Product Description

The magnetic dirt separator is designed to remove precipitate (suspended solids) from the system fluid. Precipitate can lead to increased wear and tear of components and decreased system efficiency.
A candle-shaped magnet in the upper part of the body attracts ferromagnetic particles at the entry point into the separator. Any particles that escape the first magnet flow towards the lower section where they are attracted by three lower magnets. The four magnets eliminate almost all the circulating particles. A stainless steel mesh blocks residual impurities before the passage of the fluid to the drain chamber.
A manual air vent allows for the release of entrained air in the system. Designed for easy maintenance and cleaning.
The separator is installed on the system return pipe to protect the components mounted upstream. It is swivel mounted for installation in any connection position.

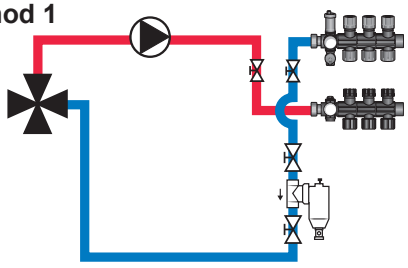
Technical Data

	Specifications
Material	
- Brass alloy	UNI-EN12165:16 CW617N
- O-ring	EPDM
- Stainless steel filter	AISI 304
Filter size	31 mil
Piping connections	1¼" female NPT
Hose bib connection	¾" GHT
Flow capacity (clean filter)	13.8 Cv (11.9 Kv)
Maximum % of glycol	50%
Min. Operating Temp.	23°F (-5°C)
Max. Operating Temp.	230°F (110°C)
Max. Operating Pressure	145 psi (10 bar)
Magnet type	Neodymium
# of Magnets (lower section)	3
Induction Field (each)	Type B (1.2 Tesla)
# of Magnets (candle)	1
Induction field	Type B (2.4 Tesla)

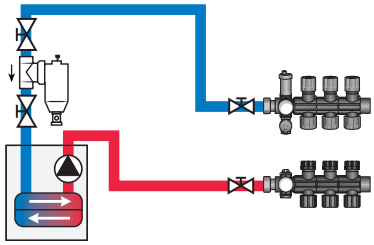
Installation Method

- Install on return piping.
- Requires additional 5-10% flow.
- Isolation ball valves are recommended.
- Method 2 is specifically for use with panels.

Method 1



Method 2



Legend:	
	Magnetic Dirt Separator
	Isolation (ball) valve
	Balancing valve
	Flow indicator

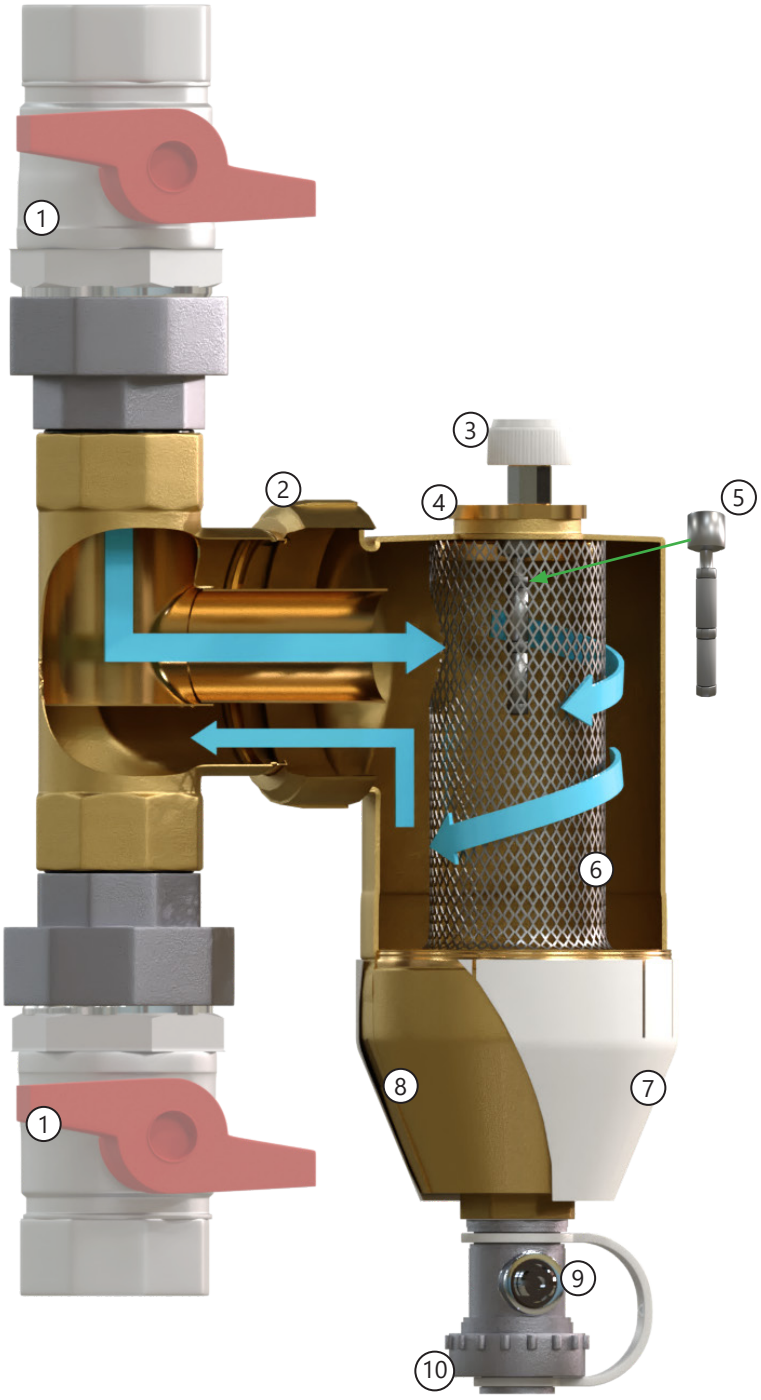
The swivel connection allows for the separator to be connected vertically (either flow direction), horizontally, or at an angle, but be sure to note the directional flow arrow on the body of the connection Tee when installing the separator.

Isolation ball valves (not included) are highly recommended when installing the magnetic dirt separator in order to aid in maintenance and cleaning.



Parts

1. Isolation ball valves (not included)
2. Swivel connector ring nut
3. Manual air vent
4. Cap
5. Candle magnet
6. Stainless Steel mesh
7. White cover (with 3 magnets)
8. Lower section
9. Drain valve
10. Drain Valve cap



Disassembly & Cleaning

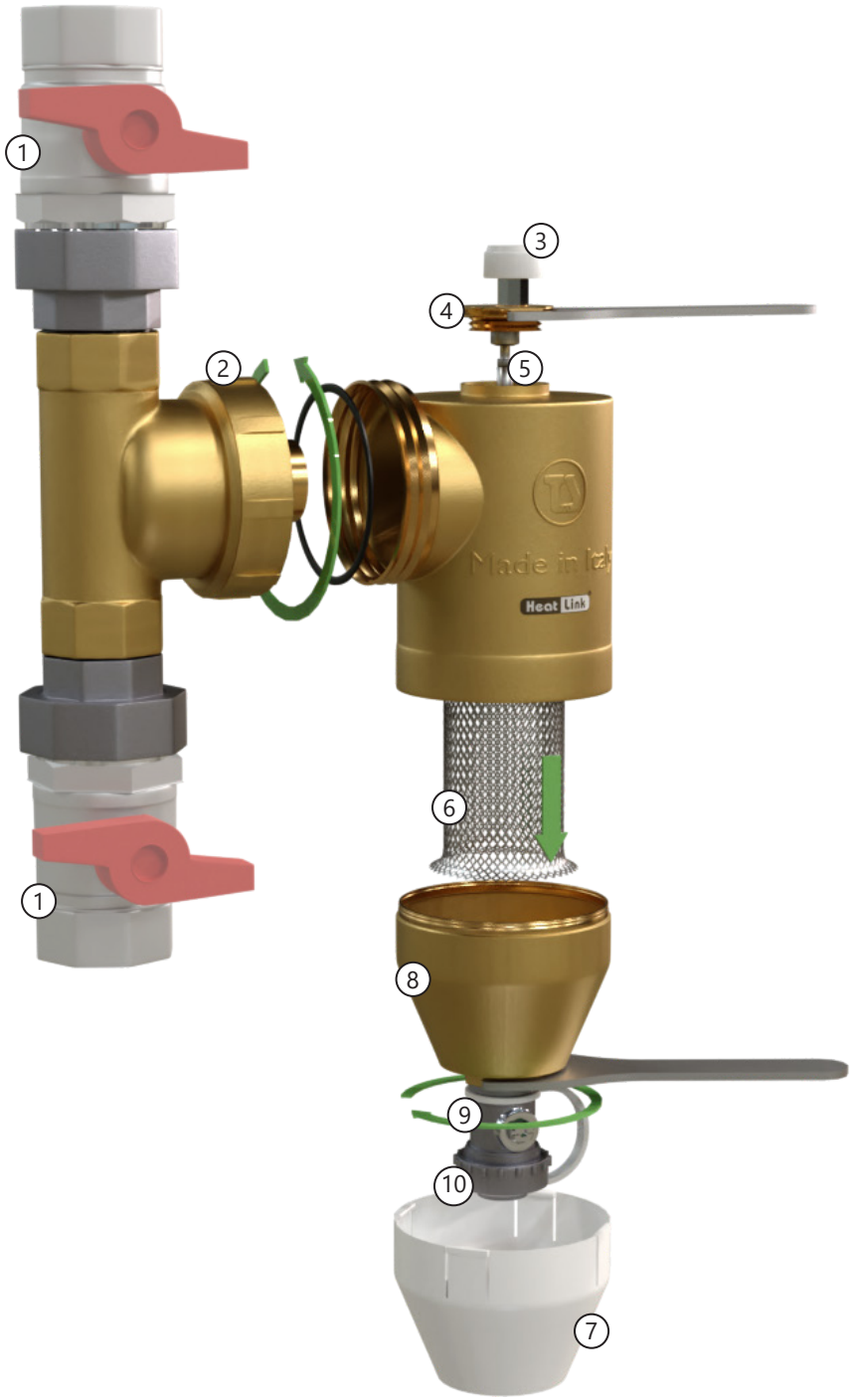
Quick Clean Process

1. Close the isolation valves (1) (not included).
2. Remove the white cover (7) (containing the 3 magnets) from the separator by pulling down.
3. Unscrew the drain valve cap (10) and connect a hose (GHT) leading to a drain or bucket.
4. Use the cap to open the drain valve (9).
5. Open the manual air vent (3).
6. Drain the water.
7. Unscrew the cap (4) to remove the candle magnet (5). Clean the magnet.
8. Replace the candle magnet and the cap. Tighten the cap.
9. Slightly open the supply isolation valve to flush remaining particles out of the separator.
10. Close the drain. Open the isolation valves fully.
11. Replace the white cover.

Full Cleaning Process

If the simple cleaning method does not yield the desired results, it may be necessary to disassemble the magnetic dirt separator for a more thorough cleaning.

1. Close the isolation valves (1) (not included).
2. Pull the white cover (7), containing the magnets, down to remove it from the dirt separator.
3. Unscrew the drain valve cap (10) and connect a hose (GHT) leading to a drain or bucket.
4. Use the cap to open the drain valve (9).
5. Open the manual air vent (3).
6. Drain the water.
7. Unscrew the ring nut (2) and separate the filter cylinder.
8. Unscrew the lower section (8) of the filter cylinder, and remove the stainless steel mesh filter (6).
9. Rinse the filter.
10. Unscrew the cap (4) to remove the candle magnet (5). Clean the magnet.
11. Replace the candle magnet and the cap. Tighten the cap.
12. Replace the stainless steel mesh filter.
13. Replace the bottom, and close the drain valve.
14. Open the isolation valves fully.
15. Replace the white cover.



For full specifications see SUB02330