

5463 SERIES



MAGNETIC DIRT SEPARATOR DIRTMAG®

CALEFFI
Hydronic Solutions



PCT
INTERNATIONAL
APPLICATION
PENDING

FUNCTIONS AND FEATURES

- DIRTMAG® is used to separate all impurities, including sand and rust with a composite internal element in a low velocity body chamber.
- Suitable for all types of systems: the optional insulation jacket reduces heat losses and provides anti-condensation protection.
- A large brass body chamber reduces the frequency of cleaning, which can also be done while the system is in operation.
- After multiple passages of fluid, the DIRTMAG® is able to separate dirt particles down to 5 µm (0.2 mil) and removes up to 95% of ferrous oxide particles.
- A removable magnetic ring and large drain valve make the DIRTMAG® quick and easy to clean.
- Low head losses reduces pumping demands.

CONNECTIONS



| CODE | CONNECTION |
|---------|--------------|
| 546306A | 1" NPT |
| 546328A | 1" sweat |
| 546307A | 1 1/4" NPT |
| 546335A | 1 1/4" sweat |
| 546308A | 1 1/2" NPT |
| 546341A | 1 1/2" sweat |
| 546309A | 2" NPT |
| 546354A | 2" sweat |

MAGNETIC PARTICLE SEPERATION
DIRT SEPARATOR EFFICIENCY

The DIRTMAG® magnetic dirt separator removes both magnetic and non-magnetic particles continuously, featuring a powerful removable external magnet around the body. The dirt separator separates out dirt particles which are mainly made up of particles of sand and rust, collecting them in a large body chamber, from which they can be removed even while the system is in operation. This device is capable of efficiently removing even the smallest particles, with very low head loss.

Ferrous oxides form in hydronic systems when iron or steel corrodes. The abrasive, extremely fine sediment is difficult to remove and can deposit onto heat exchange surfaces and accumulate in pump cavities causing reduced efficiency and premature wear. DIRTMAG® accomplishes 2 1/2 times the ferrous oxide removal performance of standard dirt separators, delivering up to 95% elimination efficiency.

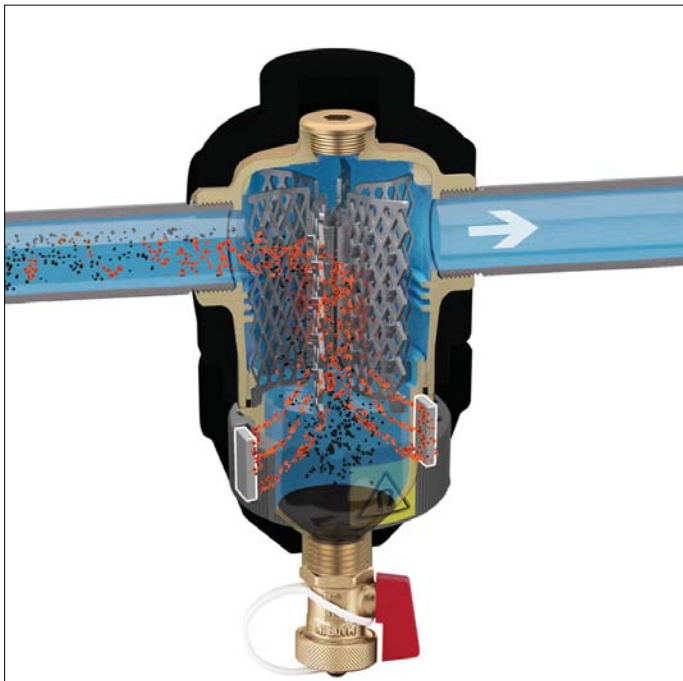
DIRT DISCHARGE



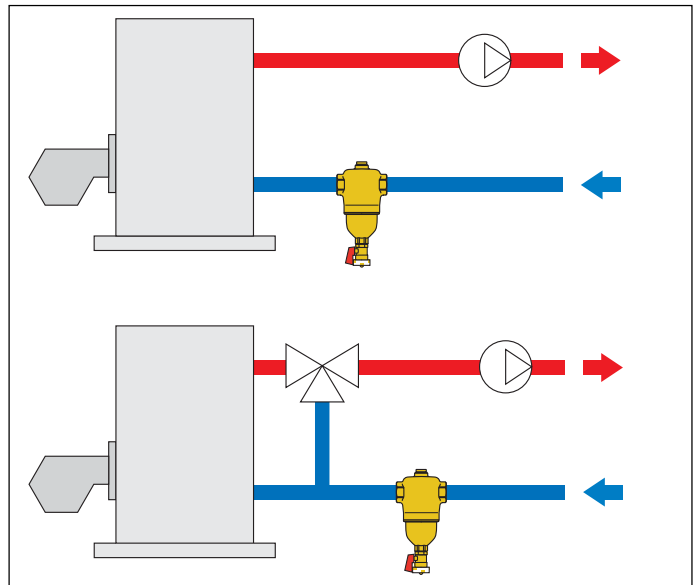
PERFORMANCE

| | |
|-------------------------------------|---------------------|
| MAX. WORKING PRESSURE | 150 psi |
| WORKING TEMPERATURE RANGE | 32 – 250°F (0–90°C) |
| MAX. GLYCOL | 50% |
| PARTICLE SEPARATION RATING | 5 µm (0.2 mil) |
| MAGNETIC PARTICLE SEPARATION RATING | up to 95% removal |

3D CROSS SECTION



APPLICATION DIAGRAM



REFERENCE DOCUMENTATION: TECHNICAL BROCHURE 01137



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