AIR, DIRT & MAGNETIC SEPARATOR DISCAL DIRTMAG™

CALEFFI Hydronic Solutions

Heating & Cooling

Components for today's modern hydronic systems

PCT INTERNATIONAL APPLICATION PENDING

FUNCTIONS AND FEATURES

- DISCAL DIRTMAG™ has 3-in-1 high performance functionality to continuously remove all air and debris, including ferrous and non-ferrous impurities in a sealed hydronic heating and cooling system.
- Microparticle dirt separation: the internal element separates and collects all the particles in the dirt collection chamber. Collected particles are discharged with the drain valve, while the system is operating.
- Microbubble air separation: the widening of the cross section decreases the flow velocity and the internal element facilitates the release of mircobubbles.
- Magnetic separation of ferrous impurititesi: the powerful, external rare earth magnet captures ferrous impurities. Removing the magnetic ring allows for discharging through drain valve even with system operating.

CONNECTIONS

CODE	CONNECTION
546195A	¾" sweat
546196A	1" sweat
546116A	1" NPT male
546197A	1 ¼" sweat

CONNECTIONS

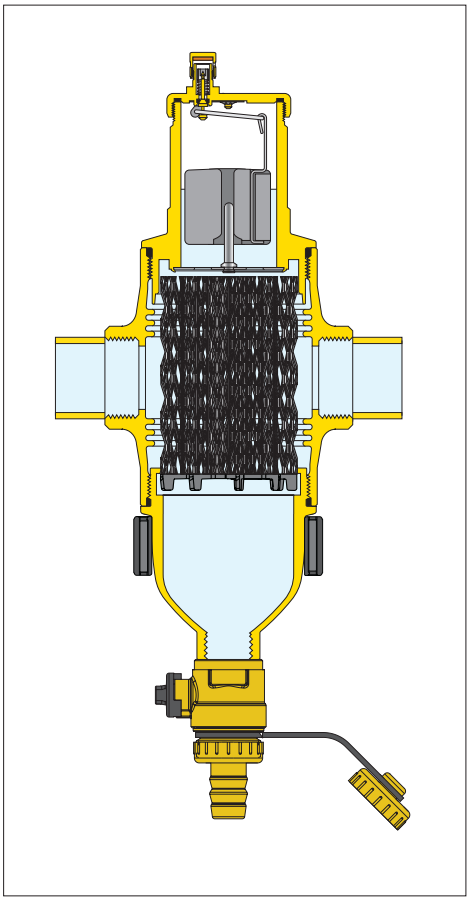
Installation shell fits DISCAL DIRTMAG® 5461 series. Labels included for field installation to externally identify product use.

CODE	CONNECTION
CBN546002	Fits ¾", 1", 1¼"

AIR AND DIRT SEPARATION FERROUS IMPURITIES REMOVAL

The DISCAL DIRTMAG™ air and dirt separator with magnet removes air and both ferrous and non-ferrous impurities continuously with low head loss, featuring a powerful removable external rare-earth magnet around the body. The air discharge capacity is very high, removing all the air present in the system down to microbubble level. After multiple passages of fluid, the DISCAL DIRTMAG™ is able to separate particles down to 5µm (0.2 mil). Ferrous impurities, including magnetite, are trapped inside the large collection chamber by a strong magnetic field created by the magnetic ring positioned on the body below the flow line for fast and effective capture of up to 100% elimination efficiency and discharge through the drain valve without shutting down the system.

CONSTRUCTION

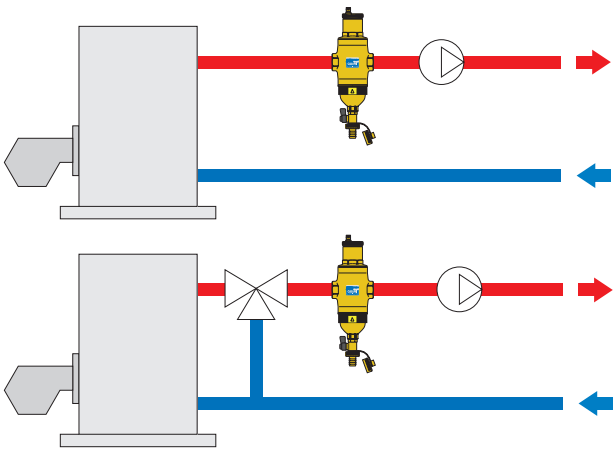


PERFORMANCE

MAX. WORKING PRESSURE	150 psi
WORKING TEMPERATURE RANGE	32 — 250°F (0-120°C)
MAX. GLYCOL:	50%
AIR SEPARATION EFFICIENCY	100% to microbubble level
PARTICLE SEPARATION CAPACITY	5 µm (0.2 mil)
FERROUS IMPURITIES REMOVAL EFFICIENCY	up to 100%

3D CROSS SECTION

APPLICATION DIAGRAM



REFERENCE DOCUMENTATION: BROCHURE 01123

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