5462-5465-5469 SERIES

DIRT SEPARATOR DIRTCAL®

CALEFFI
Hydronic Solutions

FUNCTION - FEATURES

- Can be used to separate impurities in the thermal medium circulating within heating systems
- Improved system thermal efficiency
- Efficiently removes even the smallest particles with extremely limited head losses
- Less wear and damage to boilers, heat exchangers, heating elements and pipes
- Flanged version complete with hot pre-formed shell insulation
- Large dirt collection chamber offering low cleaning frequency, with draining of sludge even while the system is running

PRODUCT RANGE - DIRTCAL®

THREADED CONNECTIONS

CODE	CONNECTION
546205	3/4”
546206	1”
546207	1 1/4”
546208	1 1/2”
546209	2”

FLANGED CONNECTIONS

CODE	CONNECTION
546550	DN 50
546560	DN 65
546580	DN 80
546510	DN 100
546512	DN 125
546515	DN 150
546520*	DN 200
546525*	DN 250
546530*	DN 300

*without insulation

CONNECTIONS FOR VERTICAL PIPES

CODE	CONNECTION
546902	ø 22
546905	3/4”
546906	1”

PERFORMANCE

WORKING TEMP. THREADED	0—110°C
WORKING TEMP. DN 50–DN 100	0—105°C
WORKING TEMP. DN 125-DN 150	0—100°C
WORKING TEMP. DN 200-DN 300	0—110°C
PRESSURE	10 bar
MAX. GLYCOL	50%
PARTICLE SEPARATION RATING	0,005 mm

PARTICLE SEPARATION RATING - DIRT SEPARATOR EFFICIENCY

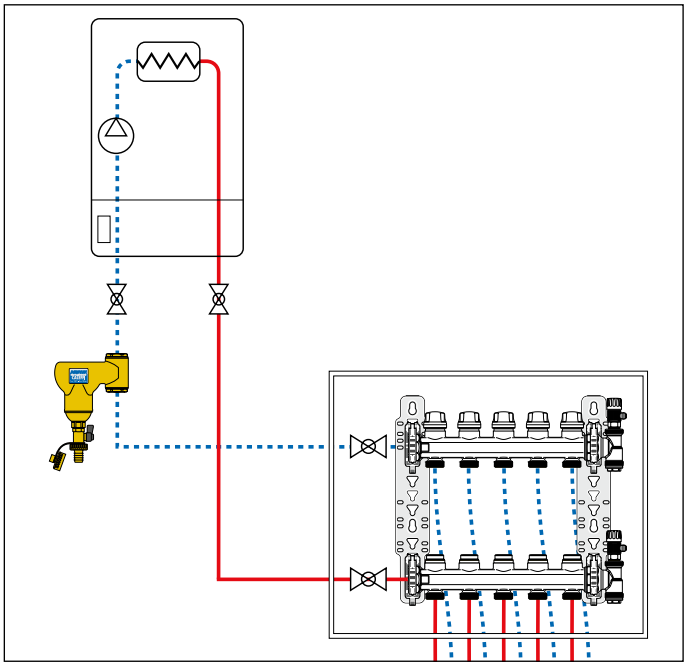
The Caleffi DIRTCAL® dirt separator, thanks to the special design of its internal element, is able to completely separate impurities in the circuit down to a minimum particle dimension of 0,005 mm. Tests performed in a specialist lab (TNO - Science and Industry - NL) established that the DIRTCAL® dirt separator can quickly remove almost all impurities after just 50 recirculations, i.e. about one day of operation. Up to 100% impurities with a particle diameter greater than 0,1 mm are removed from the circuit and in average up to 80% of smaller particles.
The continuous passages of the medium during normal system operation gradually lead to a complete dirt separation.

3D CROSS SECTION

DIRT DRAINING

The dirt separator collection chamber is equipped with a shut-off ball cock with special lever in the threaded version (with a shut-off ball valve with butterfly handle in the flanged version).
These valves can be used to drain off the impurities, collected at the bottom of the dirt separator, even with the system in operation.

APPLICATION DIAGRAM



REFERENCE DOCUMENTATION: BROCHURE 01137

CALEFFI Hydronic Solutions

03501-12GB

Caleffi S.p.A. S.R. 229 n. 25 · 28010 Fontaneto d’Agogna (NO) · Italy
Tel. +39 0322 8491 · Fax +39 0322 863723
info@caleffi.com · www.caleffi.com · © Copyright 2012 Caleffi