Datasheet

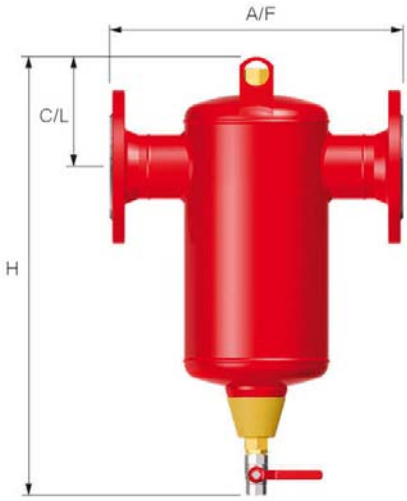
BOSS DI ILD Dirt Interceptor (In Line Dirt)

Description: The DI ILD is a high efficiency in-line dirt separator, suitable for use on heating and chilled systems.

Installation: The DI ILD should always be sited in the return pipe work to prevent the build up of silt or debris within the heat exchanger.

Features:
- ► PALL Ring Technology
- ► Manual sediment agitator to loosen sediment build-up

Maximum Working Pressure	10 bar(g)
Working Temperature Range	-10ºC to 110ºC
Maximum Velocity	3 m/s
Efficient Dirt Particle Removal	>32µm (micron)
Connections	PN16 Flanged



Type	Volume	System connection (DN)	Dimensions (mm)			Weight	Order Code
	(l)	(mm)	Across Face	C/L	Height	(Kg)	
BOSS 50F ILD Clean Dirt Interceptor	8	50	350	135	517	13.1	18710851
BOSS 65F ILD Clean Dirt Interceptor	8	65	350	135	517	14.1	18710862
BOSS 80F ILD Clean Dirt Interceptor	25	80	470	180	651	22.4	18710873
BOSS 100F ILD Clean Dirt Interceptor	25	100	470	180	651	24.8	18710884
BOSS 125F ILD Clean Dirt Interceptor	59	125	635	225	780	45.6	18710895
BOSS 150F ILD Clean Dirt Interceptor	60	150	635	230	780	50.0	18710903
BOSS 200F ILD Clean Dirt Interceptor	123	200	774	300	1013	79.5	18710914
BOSS 250F ILD Clean Dirt Interceptor	287	250	990	400	1330	154.0	18710925
BOSS 300F ILD Clean Dirt Interceptor	333	300	1016	420	1495	184.0	18710936
BOSS 350F ILD Clean Dirt Interceptor	646	350	1214	490	1636	304.0	18710947
BOSS 400F ILD Clean Dirt Interceptor	731	400	1220	520	1810	346.0	18710958
BOSS 500F ILD Clean Dirt Interceptor	1384	500	1580	630	2140	635.0	18710969
BOSS 600F ILD Clean Dirt Interceptor	2390	600	1870	795	2535	1028.0	18710980

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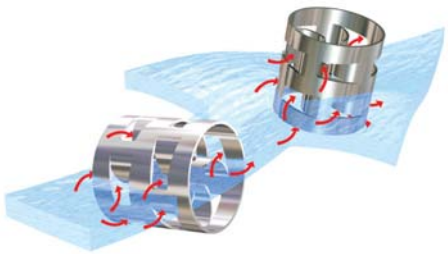
PRESSURE DROP

The expression for the calculation of pressure drop in relation to flow rate on Air and Dirt removal equipment is as follows:

Δp Pressure Drop (KPa)
f Water Flow Rate (l/s)
K Equipment Co-efficient (see right)

$$\Delta p = f^2 * K$$

Size	K
50	0.225
65	0.0864198
80	0.046875
100	0.015625
125	0.0073
150	0.0034444
200	0.00125
250	0.0005
300	0.0002667
350	0.0001667
400	0.0001041
500	4.444E-05
600	2.089E-05



PALL RINGS

The cross section presented to the flowing water has no clear path through, as water borne debris hits the Pall rings the forward momentum is lost, the debris is then free to fall into the sludge trap ready for manual venting at a later stage.