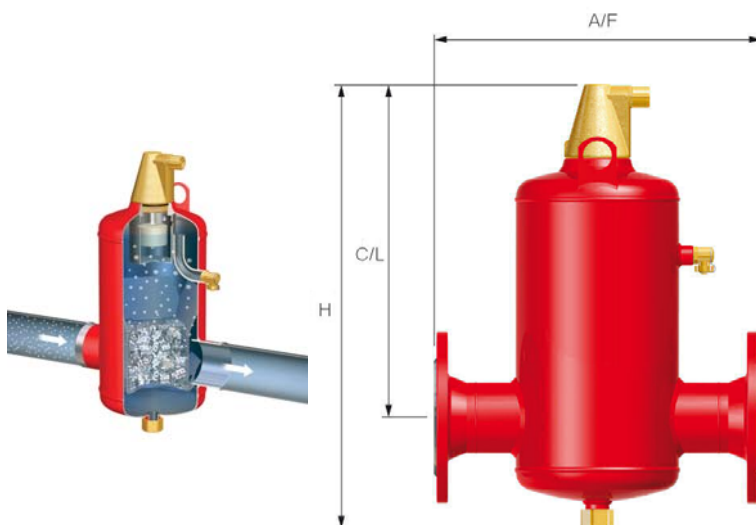


BOSS MB Air Separator (Micro Bubble)

- Description:** The MB is a high efficiency in-line air separator, suitable for use on heating and chilled systems.
- Installation:** The MB should preferably be installed in the hottest part of the system, (typically the flow pipe from the heat exchanger).
- Features:**
- ▶ PALL Ring Technology
 - ▶ Additional manual air vent for rapid air release during commissioning

Maximum Working Pressure	10 bar(g)
Working Temperature Range	-10°C to 110°C
Maximum Velocity	3 m/s
Connections	PN16 Flanged



Type	Volume (l)	System Connections	Dimensions (mm)			Weight	Order Code
		(DN)	Across Face	C/L	Height	(Kg)	
BOSS MB 50F Air Separator	8	50	350	338	470	13.1	18710050
BOSS MB 65F Air Separator	8	65	350	338	470	14.1	18710060
BOSS MB 80F Air Separator	25	80	470	435	621	22.4	18710072
BOSS MB 100F Air Separator	25	100	470	435	621	24.8	18710083
BOSS MB 125F Air Separator	59	125	635	515	790	45.6	18710094
BOSS MB 150F Air Separator	60	150	635	510	790	50	18710102
BOSS MB 200F Air Separator	123	200	774	670	970	79.5	18710113
BOSS MB 250F Air Separator	287	250	990	892	1277	154	18710124
BOSS MB 300F Air Separator	333	300	1016	1032	1442	184	18710135
BOSS MB 350F Air Separator	646	350	1214	1109	1586	304	18710146
BOSS MB 400F Air Separator	731	400	1220	1252	1759	346	18710157
BOSS MB 500F Air Separator	1384	500	1580	1470	2090	635	18711244
BOSS MB 600F Air Separator	2390	600	1870	1760	2485	1028	18711255

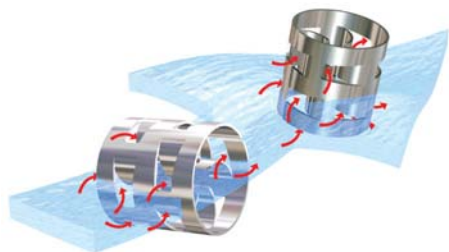
PRESSURE DROP

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, all the water is diverted over the PALL rings. The increased surface area and hydrofoil action of the PALL rings allow further pockets of lower pressure to develop accelerating the de-aeration process and promoting coalescence (microbubbles merging into larger more buoyant bubbles) on the large stainless steel surface area of the PALL rings. The automatic air vent on the top of the unit is then used to vent the larger bubbles to atmosphere.