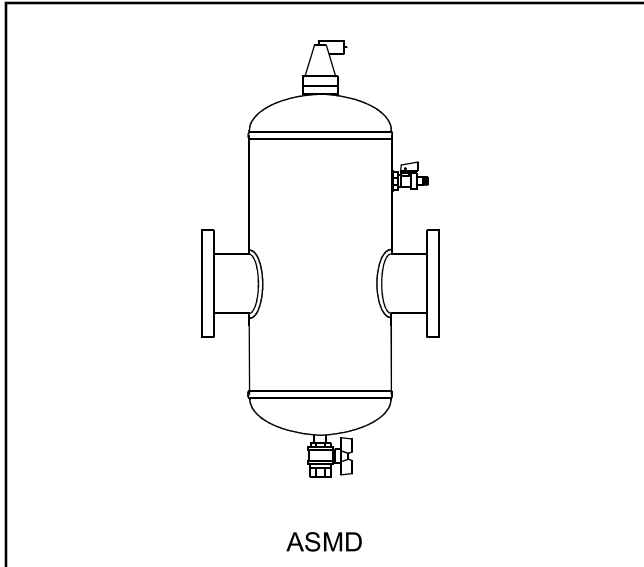


MICRO-BUBBLE AIR & DIRT SEPARATORS

Model ASMD



APPLICATIONS

Micro-bubble air and dirt separators are designed to remove air and dirt from heating and cooling systems.

This model slows the velocity of the water in its enlarged chamber, where the water impacts onto a dynamic concentrator. The concentrator merges bubbles and micro-bubbles using the principles of cohesion, which then float to the top from where they are vented to the outside.

Simultaneously, dirt particles heavier than water sink to the bottom of the chamber, where they can be drained off periodically through the bottom drain valve.

They can be used accordingly for the following applications:-

- Low Temperature Heating (LTHW)
- Chilled Water (CHW)
- Condenser Water (Cond.W)

Nominal Size DN (mm)	Installation Length (mm)	Overall Height (mm)	Vessel Diameter (mm)	Maximum Flow Rate (l/s)	Product Code (MODEL-SIZE-ENDS)
40	295	610	137	1.9	ASMD-040-PN16
50	350	695	160	3.5	ASMD-050-PN16
65	350	695	160	5.5	ASMD-065-PN16
80	470	850	213	7.5	ASMD-080-PN16
100	470	850	213	13	ASMD-100-PN16
125	635	1125	330	20	ASMD-125-PN16
150	635	1125	330	30	ASMD-150-PN16
200	775	1380	405	50	ASMD-200-PN16
250	890	1680	480	80	ASMD-250-PN16
300	1005			113	ASMD-300-PN16
350	1128			140	ASMD-350-PN16
400	1226			180	ASMD-400-PN16
450	2320			235	ASMD-450-PN16
500	2540			295	ASMD-500-PN16
600	2980			425	ASMD-600-PN16

The data above is for non PED and SEP applications only.

SPECIFICATION

ASMD - Standard flow rate model having a blue powder coated steel vessel with steel flanged connections to EN1092 PN16. With a top mounted brass automatic air vent, side mounted brass fast bleed valve and a bottom mounted brass drain valve.

Also available with WELD ends.

ASMDH - High flow rate model having a blue powder coated steel vessel with steel flanged connections to EN1092 PN16. With a top mounted brass automatic air vent, side mounted brass fast bleed valve and a bottom mounted brass drain valve.

Also available with WELD ends.

Conforms with PED* 97/23/EC. *Pressure Equipment Directive.

OPERATING PARAMETERS

Standard Flow Rate Flanged and Weld End models

- Operating Temperature, TS = 110°C.
- Operating Pressure, PS = 10 Barg.
- Cold Test Pressure, PT = 15 Barg.
- Max' Water Velocity = 1.5m/s.

NOTE: the above maximum water velocity is recommended for high separation efficiency; water velocities up to 3.0m/s and thus higher flow rates can be accommodated, but this will result in a reduction of separation efficiency and an increase in pressure loss, unless you use the High Flow Rate model. The efficiency of air removal in heating and cooling water systems follows Henry's Law.

High Flow Rate Flanged and Weld End models

- Operating Temperature, TS = 110°C.
- Operating Pressure, PS = 10 Barg.
- Cold Test Pressure, PT = 15 Barg.
- Max' Water Velocity = 3.0m/s.