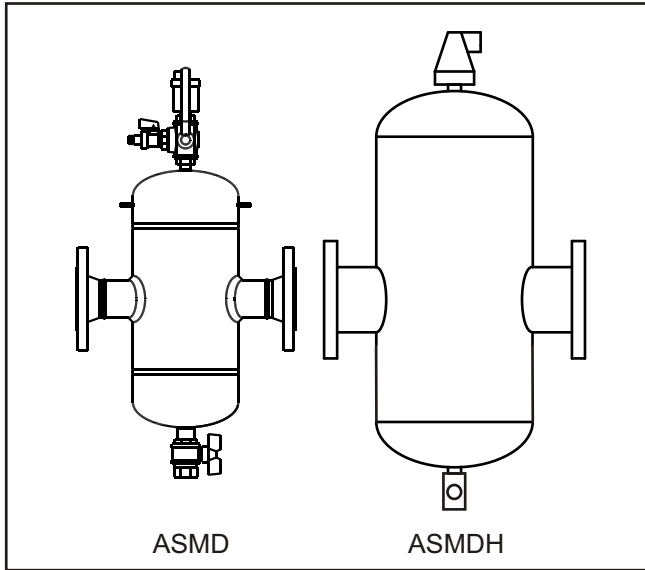


MICRO-BUBBLE AIR & DIRT SEPARATORS

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)
50	350	690	200	2.9	ASMD-050-PN16
65	350	740	200	5.0	ASMD-065-PN16
80	470	890	200	7.5	ASMD-080-PN16
100	470	940	250	11.8	ASMD-100-PN16
125	635	990	350	18.4	ASMD-125-PN16
150	635	1040	400	26.5	ASMD-150-PN16
50	350	565	175	5.9	ASMDH-050-PN16
65	350	565	175	10.0	ASMDH-065-PN16
80	470	765	270	15.1	ASMDH-080-PN16
100	470	765	270	23.6	ASMDH-100-PN16
125	635	980	360	36.8	ASMDH-125-PN16
150	635	980	360	53.0	ASMDH-150-PN16
200	774	1193	450	94.2	ASMDH-200-PN16
250	990	1577	600	147.3	ASMDH-250-PN16
300	1016	1742	600	212.1	ASMDH-300-PN16
350	1214	1986	800	288.6	ASMDH-350-PN16
400	1220	2159	800	377.0	ASMDH-400-PN16
500	1580	2590	1000	589.0	ASMDH-500-PN16
600	1870	3085	1200	848.2	ASMDH-600-PN16

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

SPECIFICATION

ASMD - Standard flow rate model having a red powder coated steel vessel with steel flanged connections to BS4504 / EN1092 PN16. With a top mounted brass fast bleed valve, brass automatic air vent and a bottom mounted brass drain valve.
Tested by BSRIA- Report Number 53502.

ASMDH - High flow rate model having a red powder coated steel vessel with steel flanged connections to BS4504 / EN1092 PN16. With a top mounted brass automatic air vent 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 models

Working Temperature = 120 °C.
Working Pressure = 10 Barg.
Cold Test Pressure = 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.

High Flow Rate Flanged and Weld End models

Working Temperature = 120 °C.
Working Pressure = 10 Barg.
Cold Test Pressure = 15 Barg.
Max' Water Velocity = 3.0m/s.