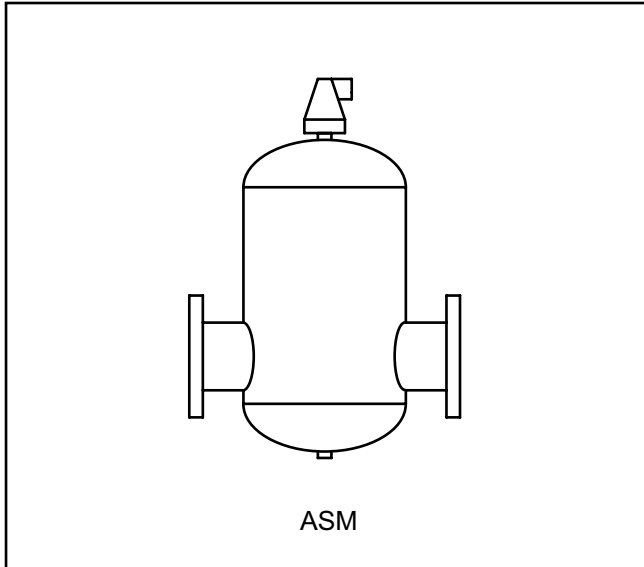


MICRO-BUBBLE AIR SEPARATORS

Model ASM



APPLICATIONS

Micro-bubble air separators are designed to remove air 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.

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)	Chamber Diameter (mm)	Maximum Flow Rate (l/s)	Product Code (MODEL-SIZE-ENDS)
50	350	480	175	2.9	ASM-050-PN16
65	350	480	175	5.0	ASM-065-PN16
80	470	645	270	7.5	ASM-080-PN16
100	470	645	270	11.8	ASM-100-PN16
125	635	805	360	18.4	ASM-125-PN16
150	635	805	360	26.5	ASM-150-PN16
200	774	970	450	47.1	ASM-200-PN16
250	990	1285	600	73.6	ASM-250-PN16
300	1016	1450	600	106.0	ASM-300-PN16
350	1214	1600	800	144.3	ASM-350-PN16
400	1220	1770	800	188.5	ASM-400-PN16
500	1580	2090	1000	294.5	ASM-500-PN16
600	1870	2485	1200	424.1	ASM-600-PN16

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

SPECIFICATION

ASM (PN16) - Standard flow rate model having a red powder coated steel vessel with steel flanged connections to EN1092 PN16. With top mounted brass automatic air vent and bottom mounted drain plug.

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.