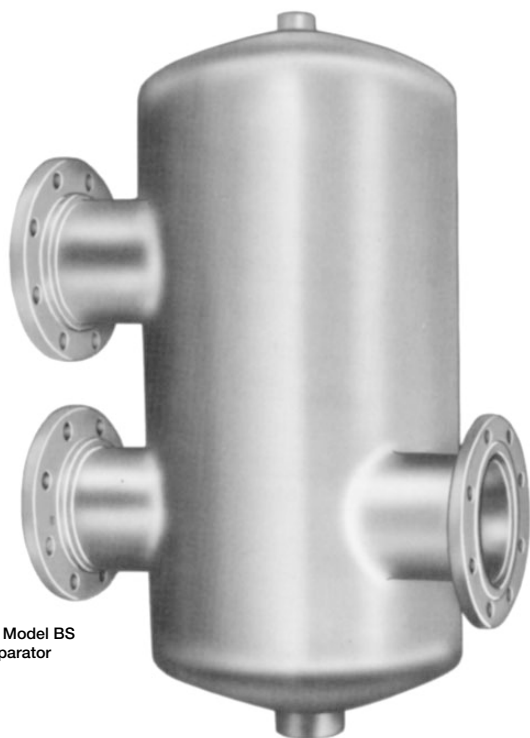




Bryan Model BS
Air Separator



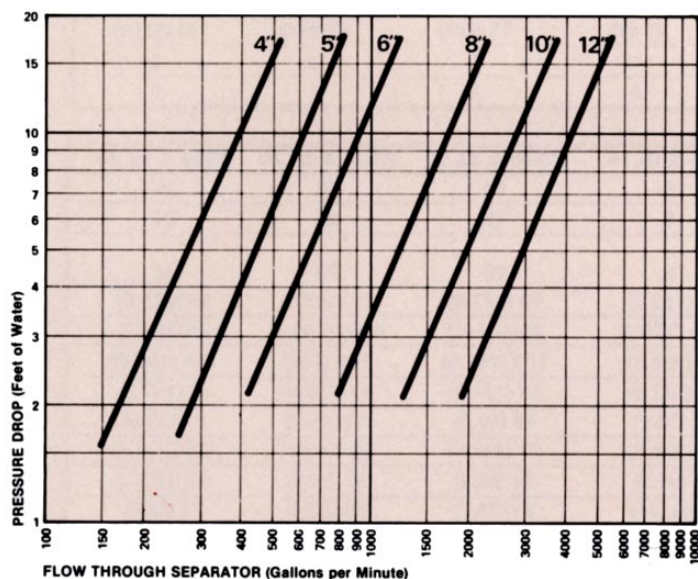
Bryan Centrifugal Air Separator

Designed for use in the flow line of a hydronic heater or cooling system, Bryan's compact, highly efficient air separator provides continuous removal of excess air as the water circulates. Centrifugal unit provides maximum separation efficiency while minimizing space requirements. Bryan offers these separators, with or without strainers, in standard pipe sizes from 4" to 24". Bryan air separators are built to the requirements so the appropriate ASME pressure vessel codes. 125 psi maximum working pressure and 350°F maximum temperature are standard. However, higher pressure ratings are also available.

Air Separator Flow Pattern

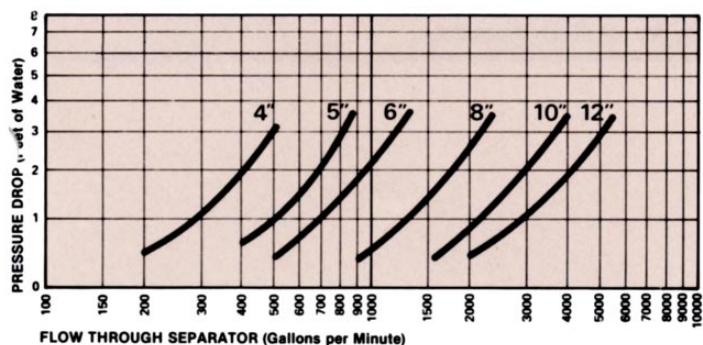
Model BS (with strainer)

Pressure Drops

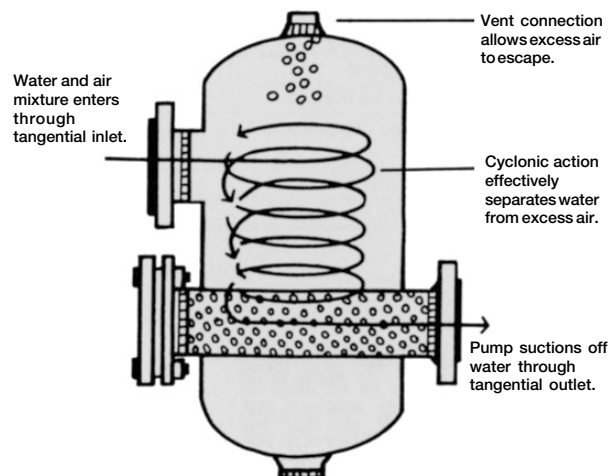


Model BL (without strainer)

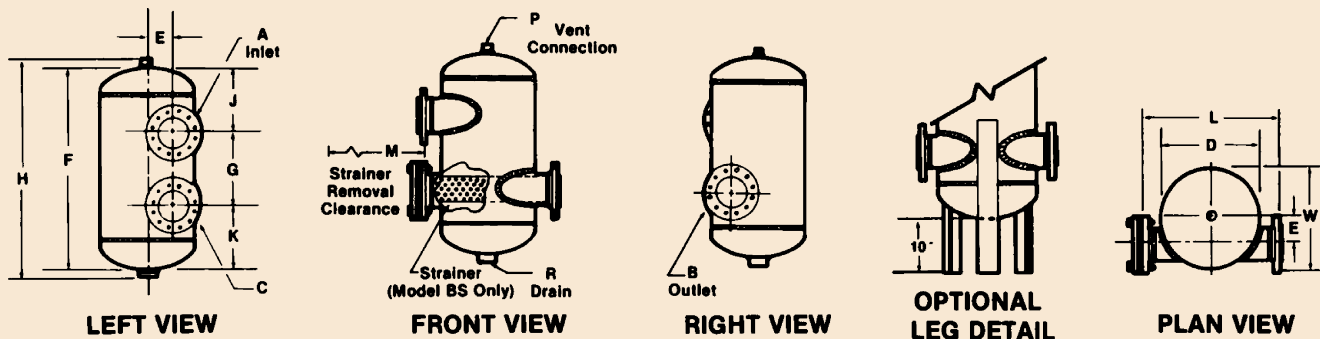
Pressure Drops



Air Separator Flow Pattern



Bryan Centrifugal Air Separators



Dimensions — Inches (cm)	BS4 & BL4	BS5 & BL5	BS6 & BL6	BS8 & BL8	BS10 & BL10	BS12 & BL12
A — 150 lb Flanged Inlet Nozzle	4	5	6	8	10	12
B — 150 lb Flanges Outlet Nozzle	4	5	6	8	10	12
C — Strainer Access Flange (BS Models Only)	4	5	6	8	10	12
L — Face to Face Spacing	20¾ (52.7)	24 (61)	26 (66)	32 (81.3)	38 (96.5)	44 (111.8)
W — Overall Width	14¼ (36.2)	17½ (44.5)	19½ (49.5)	25¾ (65.4)	32 (81.3)	38½ (97.8)
H — Overall Height	36½ (92.7)	38½ (97.8)	42½ (108)	53 (134.6)	64½ (163.8)	77½ (196.9)
D — Pressure Vessel Diameter	12¾ (32.4)	16 (40.6)	18 (45.7)	24 (61)	30 (76.2)	36 (91.4)
E — Vessel Center to Flow Nozzle	3⅜ (8.57)	4½ (11.4)	5 (12.7)	7 (17.8)	9 (22.9)	11 (27.9)
F — Pressure Vessel Height	33 (83.8)	35 (88.9)	38 (96.5)	48 (121.9)	59½ (151.1)	72½ (184.2)
G — Outlet to Inlet Spacing	14¼ (35.56)	14¼ (36.20)	14 (35.6)	18½ (46.9)	22 (55.9)	26 (66)
J — Top of Vessel to Inlet	9½ (24.1)	10⅜ (26.35)	12 (30.5)	14¾ (37.5)	18¾ (47.6)	23¾ (59.1)
K — Bottom of Vessel to Outlet	9½ (24.1)	10⅜ (26.35)	12 (30.5)	14¾ (37.5)	18¾ (47.6)	23¾ (59.1)
M — Strainer Removal Clearance (BS Models Only)	20¾ (52.7)	24 (61)	26 (66)	32 (81.3)	38 (96.5)	44 (111.8)
P — Vent Connection, Threaded	1½	1½	1½	2	2	2
R — Drain Connection, Threaded	2	2	3	3	3	3

Dimensions — Inches (cm)	BS14 & BL14	BS16 & BL16	BS18 & BL18	BS20 & BL20	BS24 & BL24
A — 150 lb Flanged Inlet Nozzle	14	16	18	20	24
B — 150 lb Flanges Outlet Nozzle	14	16	18	20	24
C — Strainer Access Flange (BS Models Only)	14	16	18	20	24
L — Face to Face Spacing	54 (137.2)	64 (162.6)	70 (177.8)	76 (193.0)	88 (223.5)
W — Overall Width	44½ (113)	50¾ (128.9)	55½ (141)	62¾ (159.4)	74 (187.9)
H — Overall Height	89 (218.4)	96 (243.8)	103 (261.6)	102 (259)	114 (289.6)
D — Pressure Vessel Diameter	42 (106.7)	48 (121.9)	54 (137.2)	60 (152.4)	72 (182.9)
E — Vessel Center to Flow Nozzle	13 (33)	15 (38.1)	16 (40.6)	19 (48.3)	22 (55.9)
F — Pressure Vessel Height	80 (203.2)	90 (228.6)	97 (246.4)	96 (243.8)	108 (274.3)
G — Outlet to Inlet Spacing	28 (71.1)	32 (81.3)	34 (86.4)	30 (76.2)	42 (106.7)
J — Top of Vessel to Inlet	26 (66)	291/8 (74)	31 (78.7)	33 (83.8)	33 (83.8)
K — Bottom of Vessel to Outlet	26 (66)	291/8 (74)	31 (78.7)	33 (83.8)	33 (83.8)
M — Strainer Removal Clearance (BS Models Only)	54 (137.2)	64 (162.6)	70 (177.8)	76 (193.0)	88 (223.5)
P — Vent Connection, Threaded	3	3	3	3	3
R — Drain Connection, Threaded	3	3	3	3	3

Note: Dimensions subject to change without notice. Consult factory for certified dimensions.



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