



SUBMITTAL

TYPE: SPA ASME AIR SEPARATOR WITHOUT STRAINER
MODELS: SPA 2 TO SPA 30

Submittal Sheet No. SPA-001.2

Date: April, 2012

JOB _____

AA tanks Representative _____

Unit Tag No. _____

Engineer _____

Contractor _____

Order No _____ Date _____

Submitted By _____ Date _____

Approved By _____ Date _____

DESCRIPTION

AA tanks Type SPA Vortex type Air Separators eliminate air quickly and efficiently from open and closed loop heating/cooling systems. Water enters and exits through unique "tangential" connections, which promote a low velocity swirling effect in the center of the unit. Natural centrifugal forces allow the heavier air-free water to move towards the outer edges while entrained air is captured within the "eye" of the vortex and released out the top of the separator. The water then exits near the bottom of the unit, bubble free, protecting the system against the noise, corrosion, and damage commonly caused by entrained air.

CONSTRUCTION

Shell: Carbon Steel

Heads: Carbon Steel

PERFORMANCE LIMITATIONS

Maximum Design Pressure: 125 PSIG
 (200 & 250 PSIG available)

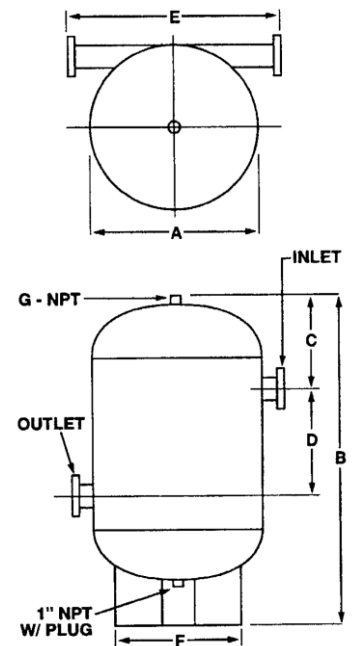
Maximum Design Temperature: 450°F

Notes

- Available with mounting clips.

DIMENSIONS & WEIGHTS

Model Number	Max GPM	Conn Size	Sys Conn Type	Dimensions in Inches							Approx. Shipping Weight (lbs)
				A	B	C	D	E	F	G	
SPA 2	56	2"	NPT	12	22 ½	6 ¼	8 ½	16 ⅝	9 ½	1 ¼	34
SPA 2-1/2	90	2 ½"	NPT		24 1/8	5 ½					37
SPA 3	190	3"	FLANGE		23 ½	6 ¼					8
SPA 4	300	4"	FLANGE	14	32	9 ⅙	10 ¾	21 ¾	11 ½	1 ½	80
SPA 5	530	5"	FLANGE								125
SPA 6	850	6"	FLANGE	20	44	13 ¼	14 ½	28	18	2	175
SPA 8	1900	8"	FLANGE								210
SPA 10	3200	10"	FLANGE	30	60 ½	19	20	41	24		460
SPA 12	4800	12"	FLANGE								577
SPA 14	6100	14"	FLANGE	36	78	22	31 ½	46 ⅜	30		850
SPA 16	8000	16"	FLANGE	48	108	30	40	60	38		1858
SPA 18	9700	18"	FLANGE	54	124	33	50	66	44		2490
SPA 20	12000	20"	FLANGE	60	138	35	60	72	50		3346
SPA 22	15000	22"	FLANGE	66	150	38	66	78	56		3879
SPA 24	17000	24"	FLANGE					80			4211



TYPICAL SPECIFICATION

Furnish and install as shown on plans, a vortex type air separator Model SPA _____ sized for _____ GPM, with _____" (NPT/Flanged) tangential connections, as manufactured by AA tanks Company. The air separator shall be designed in accordance with the latest revisions of the ASME Code for Boilers and Pressure Vessels, Section VIII, Division 1, and shall be constructed and stamped for 125 PSI working pressure @ 450F. A blowdown connection shall be provided to facilitate routine cleaning of the unit. Each air separator shall be AA tanks SPA _____ or approved equal.