



**SUBMITTAL**

**TYPE:** SPA ASME AIR SEPARATOR WITH STRAINER  
**MODELS:** SPA 2S TO SPA 30S

Submittal Sheet No. SPAS-001.2

Date: April, 2012

<b>JOB</b>  Unit Tag No. _____ Engineer _____ Contractor _____	AAtanks Representative _____  Order No _____ Date _____ Submitted By _____ Date _____ Approved By _____ Date _____
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**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. SPA-S units also include system strainer.

**CONSTRUCTION**

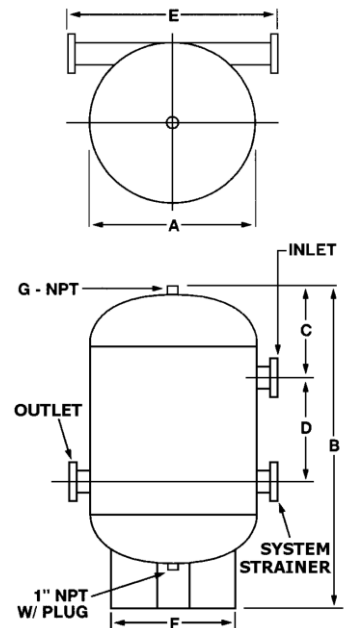
Shell: Carbon Steel  
 Heads: Carbon Steel  
 Strainer: Stainless Steel

**PERFORMANCE LIMITATIONS**

Maximum Design Pressure: 125 PSIG  
 (200 PSI & 250 PSI Available)  
 Maximum Design Temperature: 450°F

**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 2S	56	2"	NPT	12	24 1/2	6 1/3	8 1/2	16 5/8	9 1/2	1 1/4	48
SPA 2-1/2S	90	2 1/2"	NPT								61
SPA 3S	190	3"	FLANGE								82
SPA 4S	300	4"	FLANGE	14	32	9 1/8	10 3/4	21 3/4	11 1/2	1 1/2	99
SPA 5S	530	5"	FLANGE								132
SPA 6S	850	6"	FLANGE	20	44	13 1/4	14 1/2	28	18	2	190
SPA 8S	1900	8"	FLANGE								308
SPA 10S	3200	10"	FLANGE	30	60 1/2	19	20	41	24	2	606
SPA 12S	4800	12"	FLANGE								812
SPA 14S	6100	14"	FLANGE	36	78	22	31 1/2	46 3/8	30	2	1138
SPA 16S	8000	16"	FLANGE	48	108	30	40	60	38	2	2520
SPA 18S	9700	18"	FLANGE	54	124	33	50	66	44	2	2973
SPA 20S	12000	20"	FLANGE	60	138	35	60	72	50	2	3904
SPA 22S	15000	22"	FLANGE	66	150	38	66	78	56	2	4684
SPA 24S	17000	24"	FLANGE								5003



**Notes**

- Available with mounting clips.

**TYPICAL SPECIFICATION**

Furnish and install as shown on plans, a vortex type air separator Model SPA \_\_\_\_\_ -S with system strainer, sized for \_\_\_\_\_ GPM, with \_\_\_\_\_" (NPT/Flanged) tangential connections, as manufactured by AAtanks 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 AAtanks SPA- \_\_\_\_\_ -S or approved equal.