AAtanks

SUBMITTAL

TYPE: SPA ASME AIR SEPARATOR WITH STRAINER

MODELS: SPA2 TO SPA16

SUBMITTAL SHEET No. B-3305 Date: 2-01

JOB _____

Unit Tag No. _____ Order No. _____ Date _____

Engineer _____ Submitted By _____ Date _____

Contractor _____ Approved By _____ Date _____

DESCRIPTION

AAtanks 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 shall have a system strainer.

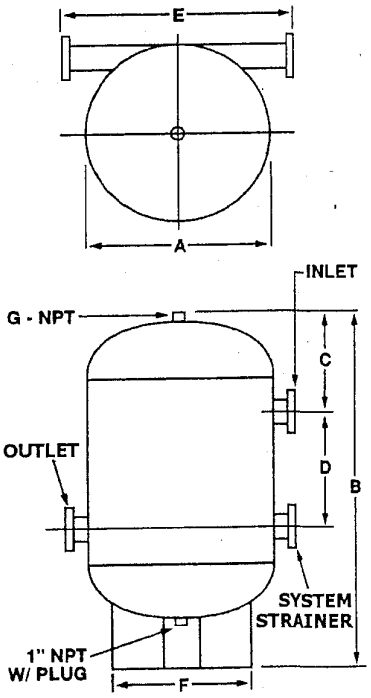
CONSTRUCTION

Shell: Carbon steel
Heads: Carbon steel

PERFORMANCE LIMITATIONS

Maximum Design Pressure: 125 PSIG
Maximum Design Temperature: 450°F

Model Number	Max GPM	Conn. Size	Type	Dimensions In Inches							Approx. Lbs.
				A	B	C	D	E	F	G	
SPA 2S	56	2	NPT	12	22 1/2	5 1/2	8 1/2	16 5/8	9 1/2	1 1/4	55
SPA 2-1/2S	90	2.5	NPT	12	22 1/2	5 1/2	8 1/2	16 5/8	9 1/2	1 1/4	61
SPA 3S	190	3	FLANGED	12	22 1/2	5 3/4	8	19 3/4	9 1/2	1 1/4	66
SPA 4S	300	4	FLANGED	14	32	9 1/8	10 3/4	21 3/4	11 1/2	1 1/2	99
SPA 5S	530	5	FLANGED	14	32	9 1/8	10 3/4	21 3/4	11 1/2	1 1/2	163
SPA 6S	850	6	FLANGED	20	44	13 1/4	14 1/2	28	18	2	210
SPA 8S	1900	8	FLANGED	20	44	13 1/4	14 1/2	28	18	2	417
SPA 10S	3200	10	FLANGED	30	60 1/2	19	20	41	24	2	658
SPA 12S	4800	12	FLANGED	30	60 1/2	19	20	41	24	2	1042
SPA 14S	6100	14	FLANGED	36	78	22	31 1/2	46 3/8	30	2	1848
SPA 16S	8000	16	FLANGED	48	108	30	40	60	38	2	2530
SPA 18S	9700	18	FLANGED	54	124	33	50	66	44	2	3559
SPA 20S	12000	20	FLANGED	60	138	35	60	72	50	2	5610
SPA 22S	15000	22	FLANGED	66	150	38	66	78	56	2	6765
SPA 24S	17000	24	FLANGED	72	150	40	66	80	56	2	7931



TYPICAL SPECIFICATION

Furnish and install as shown on plans, a vortex type air separator Model SPA_____ 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 @ 450°F. A blowdown connection shall be provided to facilitate routine cleaning of the unit. Each air separator shall be Wessels SPA _____ or approved equal.