

SINCE 1908  
**wessels**  
 company

SUBMITTAL

**SPA-RL-SERIES**  
 SEVERE SERVICE AIR SEPARATOR

Models: SPA-RL-2 TO SPA-RL-24  
 Submittal Sheet No. D-1006A Rev. 0 3/20/2024

Job Name _____	Submitted By _____	Date _____
Location _____	Approved By _____	Date _____
_____	Order No. _____	Date _____
Engineer _____	Notes _____	_____
Contractor _____	_____	_____
Sales Rep. _____	_____	_____

**Description**

Wessels SPA-RL Vortex type air separators are built in accordance with ASME boiler and pressure vessel code to eliminate air quickly and efficiently from open and closed loop heating/cooling systems. Fluid enters and exits tangentially, which creates a low velocity vortex in the center of the unit. Centrifugal force creates an area of low pressure that causes air to come out of solution and travel to the top where it can be released or captured. Bubble-free fluid exits near the bottom of the unit, protecting systems against the noise, corrosion, and damage commonly caused by entrained air.

**Construction:**

Shell: Carbon Steel  
 Heads: Carbon Steel

**Design Parameters:**

Maximum Design Pressure: 125 PSIG\*\*  
 Temperature Range: 0°F to 450°F

\*\*200 & 250 PSIG available

MODEL NUMBER	PART NUMBER	MAX FLOW (GPM)	TAGGING INFORMATION	QUANTITY
SPA-RL-2N	72410067	56		
SPA-RL-2.5N	72410073	90		
SPA-RL-3	72410081	190		
SPA-RL-4	72410085	300		
SPA-RL-5	72410089	500		
SPA-RL-6	72410093	700		
SPA-RL-8	72410097	1300		
SPA-RL-10	72410101	2000		
SPA-RL-12	72410105	2750		
SPA-RL-14	72410109	3840		
SPA-RL-16	72410113	5015		
SPA-RL-18	72410117	5200		
SPA-RL-20	72410121	6300		
SPA-RL-22	72410125	7400		
SPA-RL-24	72410129	8500		

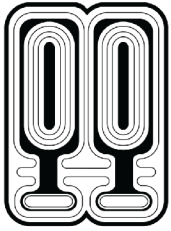
**Typical Specification**

Furnish and install, as shown on plans, a centrifugal vortex type AIR SEPARATOR model SPA-\_\_\_\_\_-RL sized for \_\_\_\_\_ GPM, with \_\_\_\_\_" (NPT/Flanged) tangential connections, as manufactured by Wessels Company. A blowdown connection shall be provided to facilitate routine cleaning of the unit. Separator shell diameter to be three times the nominal inlet/outlet pipe diameter, to create proper centrifugal separation over the range of the separator design flow. The tank must be constructed in accordance with most recent edition of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code, and shall be constructed and stamped for 125 PSIG working pressure at 0°F to 450°F.



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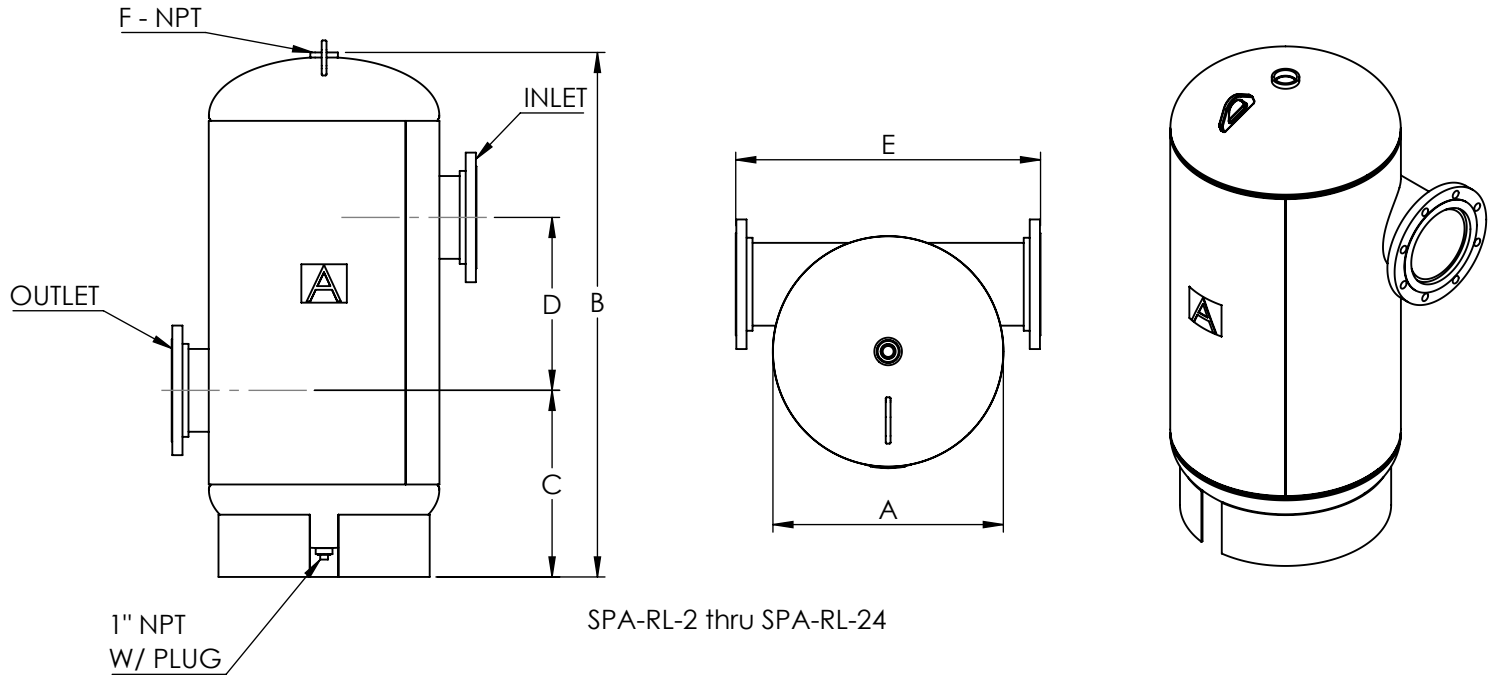


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**Dimensions & Weights:**

Model Number	Dimensions in Inches							Approx. Shipping Weight (lbs)
	Connection Size	A	B	C	D	E	F	
SPA-RL-2N	2 NPT	12	24 11/16	9 5/16	8 1/2	16 5/8	1 1/4	43
SPA-RL-2.5N	2.5 NPT							59
SPA-RL-3	3	10 3/4	26 7/8	10 13/16	8	20 1/2		115
SPA-RL-4	4	12	31 9/16	12 1/16	10	22 3/4	1 1/2	155
SPA-RL-5	5	16	37	14 1/16	12	23 3/4		205
SPA-RL-6	6	18	44 1/16	16 13/16	14	25 3/4		280
SPA-RL-8	8	24	54	19 7/16	18	31 3/4	2	420
SPA-RL-10	10	30	64 11/16	22 5/8	22	37 3/4		800
SPA-RL-12	12	36	75 3/8	25 3/4	27	46 3/4		1110
SPA-RL-14	14	42	92 3/8	35	31 1/2	54 1/2		1780
SPA-RL-16	16	48	104 3/8	38 1/8	36	62 1/2		2425
SPA-RL-18	18	54	123 1/4	44 3/4	40 1/2	70 1/4		3410
SPA-RL-20	20	60	135 1/2	48 5/8	45	78		5310
SPA-RL-22	22	66	148 1/2	52 5/8	49 5/8	85 7/8		6400
SPA-RL-24	24	72	159 1/2	56 1/8	54	93 1/2		7500

**Notes:**

- Mounting Clips Available Upon Request
- Flanged connection is standard unless otherwise specified



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