



Submittal Form ZPA-S SERIES

TANGENTIAL AIR SEPARATOR
WITH STRAINER

Models: ZPA-2S to ZPA-24S

Date: 9/25

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

Description:

Zilmet ZPA-S ASME Vortex type Air Separators with removable strainer 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 toward the outer edges while entrained air is captured within the “eye” of the vortex and released out of the top of the separator. The bubble-free water then exits near the bottom of the unit, protecting systems against the noise, corrosion, and damage commonly caused by entrained air.

A removeable internal strainer comes with this model to continually filter particles from the system water.

Construction:

Shell: Carbon Steel
 Heads: Carbon Steel
 Exterior: Red Oxide Primer
 Interior: Unlined

Design Parameters:

Maximum Design Pressure: 125 PSIG*
 Temperature Range: -20°F to 450°F

*Higher pressures also available

MODEL NUMBER	PART NUMBER	MAX FLOW (GPM)	TAGGING INFORMATION	QUANTITY
ZPA-2-S	72301045	56		
ZPA-2.5-S	72301078	90		
ZPA-3-S	72301100	190		
ZPA-4-S	72301133	300		
ZPA-5-S	72301166	530		
ZPA-6-S	72301188	850		
ZPA-8-S	72301210	1900		
ZPA-10-S	72030010	3200		
ZPA-12-S	72030012	4800		
ZPA-14-S	72072014	6100		
ZPA-16-S	72072016	8000		
ZPA-18-S	72072018	9700		
ZPA-20-S	72072020	12000		
ZPA-22-S	72072022	15000		
ZPA-24-S	72072024	17000		

Typical Specification:

Furnish and install, as shown on plans, a vortex type AIR SEPARATOR WITH STRAINER model ZPA-_____ -S sized for _____ GPM, with _____" (NPT/Flanged) tangential connections, as provided by Zilmet. A blowdown connection shall be provided to facilitate routine cleaning of the unit. 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 @ -20°F to 450°F. Each air separator shall be Zilmet model number ZPA-_____ -S or approved equal.



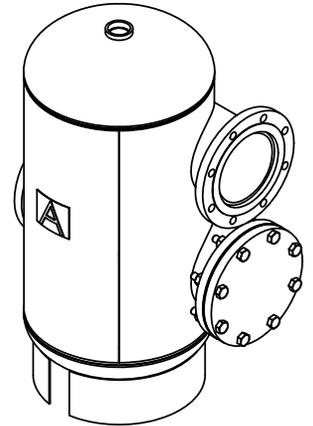
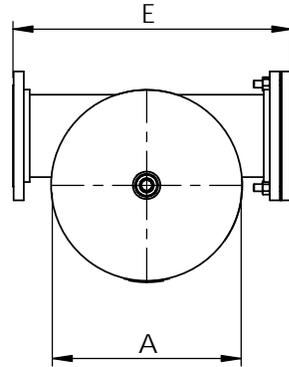
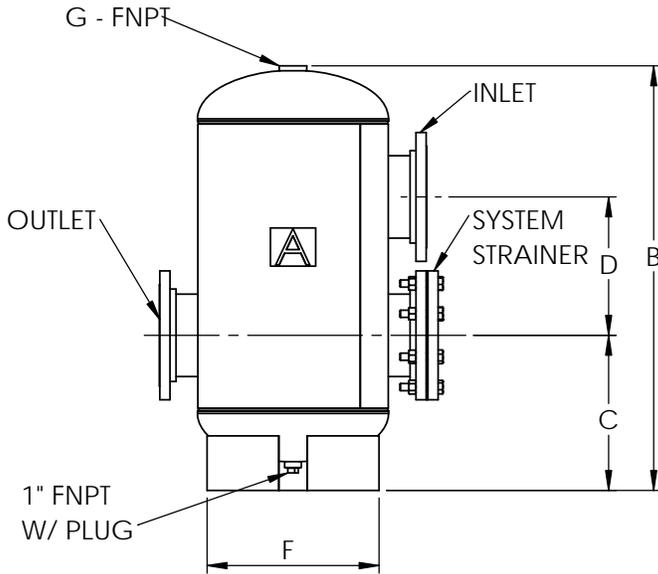
Submittal Form

ZPA-S SERIES

TANGENTIAL AIR SEPARATOR WITH STRAINER

Models: ZPA-2S to ZPA-24S

Date: 9/25



ZPA-2S thru ZPA-24S

Dimensions & Weights:

Model Number	Dimensions in Inches								Approx. Shipping Weight (lbs)
	Connection Size	A	B	C	D	E	F	G	
ZPA-2-S	2 MNPT	12	22 1/2	9 5/16	8 1/2	16 5/8	9 1/2	1 1/4	55
ZPA-2.5-S	2.5 MNPT			9 3/4	8	19 3/4			61
ZPA-3-S	3			12 1/8	10 3/4	21 3/4			66
ZPA-4-S	4	14	32	16 1/4	14 1/2	28	18	1 1/2	99
ZPA-5-S	5								210
ZPA-6-S	6	20	44	21 1/2	20	41	24	2	417
ZPA-8-S	8								658
ZPA-10-S	10								1042
ZPA-12-S	12	30	60 1/2	24 1/2	31 1/2	46 3/8	30	78	1848
ZPA-14-S	14								2530
ZPA-16-S	16								3559
ZPA-18-S	18	54	124	41	50	66	44	56	5610
ZPA-20-S	20								60
ZPA-22-S	22	66	150	46	66	78	56	80	7931
ZPA-24-S	24								7931

Notes:

- Mounting Clips Available Upon Request



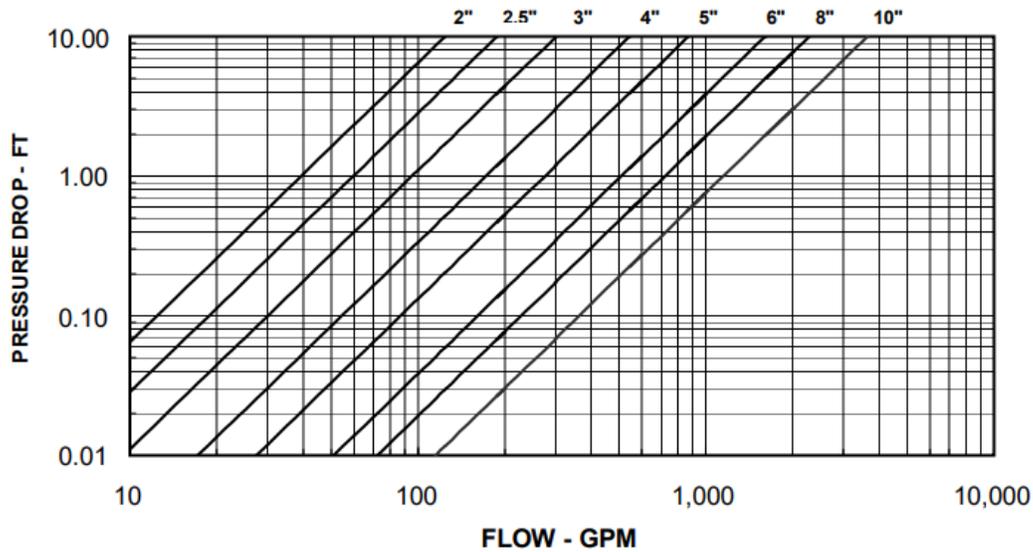
Submittal Form
ZPA-S SERIES
TANGENTIAL AIR SEPARATOR
WITH STRAINER

Models: ZPA-2S to ZPA-24S

Date: 9/25

Pressure Drop Curves

ZPA (WITH STRAINER) - FLOW PERFORMANCE



ZPA (WITH STRAINER) - FLOW PERFORMANCE

