



Submission Form
ZPA-SERIES
 TANGENTIAL AIR
 SEPARATOR

Models: ZPA-2 to ZPA-24

Date: 9/25

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

Zilmet ZPA ASME 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 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 the systems against the noise, corrosion, and damage commonly caused by entrained air.

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	72300045	56		
ZPA-2.5	72300078	90		
ZPA-3	72300100	190		
ZPA-4	72300133	300		
ZPA-5	72300166	530		
ZPA-6	72300188	850		
ZPA-8	72300210	1900		
ZPA-10	72030010	3200		
ZPA-12	72030012	4800		
ZPA-14	72072014	6100		
ZPA-16	72072016	8000		
ZPA-18	72072018	9700		
ZPA-20	72072020	12000		
ZPA-22	72072022	15000		
ZPA-24	72072024	17000		

Typical Specification:

Furnish and install, as shown on plans, a vortex type AIR SEPARATOR model ZPA-_____ 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-_____ or approved equal.

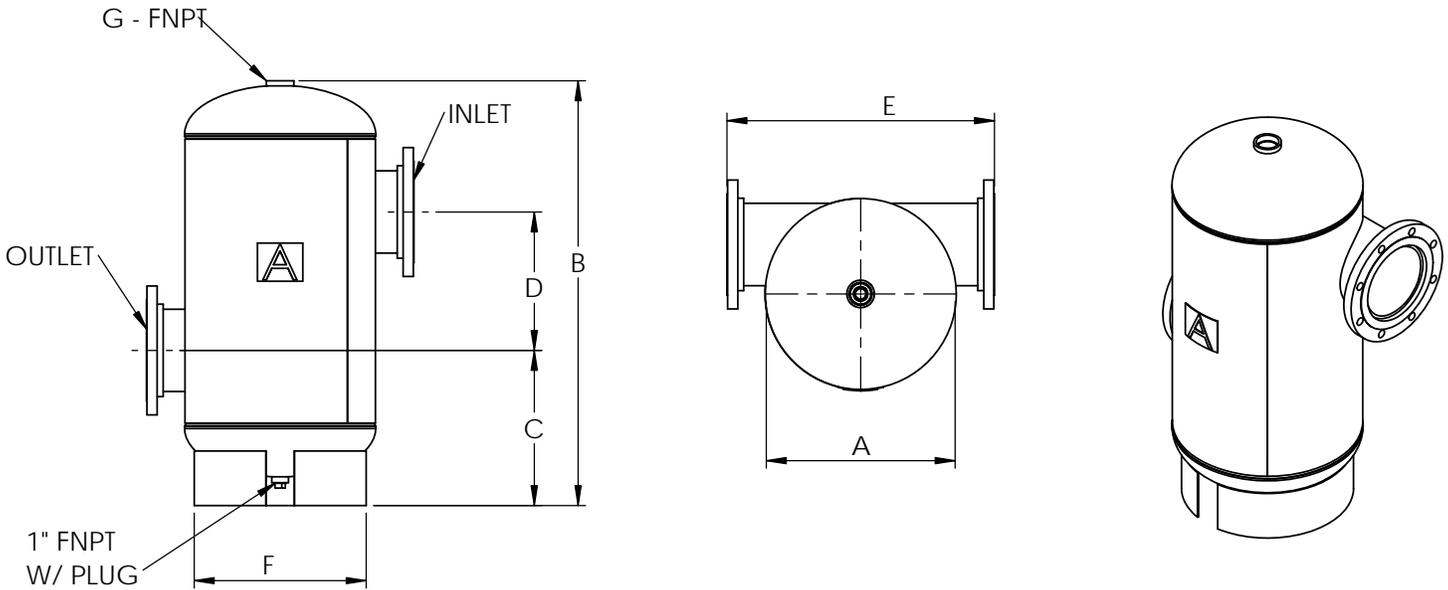


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Dimensions & Weights:

Model Number	Dimensions in Inches								Approx. Shipping Weight (lbs)						
	Connection Size	A	B	C	D	E	F	G							
ZPA-2	2 MNPT	12	22 1/2	9 5/16	8 1/2	16 5/8	9 1/2	1 1/4	50						
ZPA-2.5	2.5 MNPT			9 3/4	8	19 3/4			55						
ZPA-3	3			12 1/8	10 3/4	21 3/4			60						
ZPA-4	4	14	32	16 1/4	14 1/2	28	18	1 1/2	90						
ZPA-5	5								191						
ZPA-6	6	20	44	21 1/2	20	41	24	2	379						
ZPA-8	8								598						
ZPA-10	10								947						
ZPA-12	12	30	60 1/2	24 1/2	31 1/2	46 3/8	30	1680	2300						
ZPA-14	14								3235						
ZPA-16	16								5100						
ZPA-18	18	54	124	41	50	66	44	2	6150						
ZPA-20	20								60	138	42 1/2	60	72	50	7210
ZPA-22	22								66	150	46	66	78	56	
ZPA-24	24	80													

Notes:

- Mounting Clips Available Upon Request



ZPA-SERIES

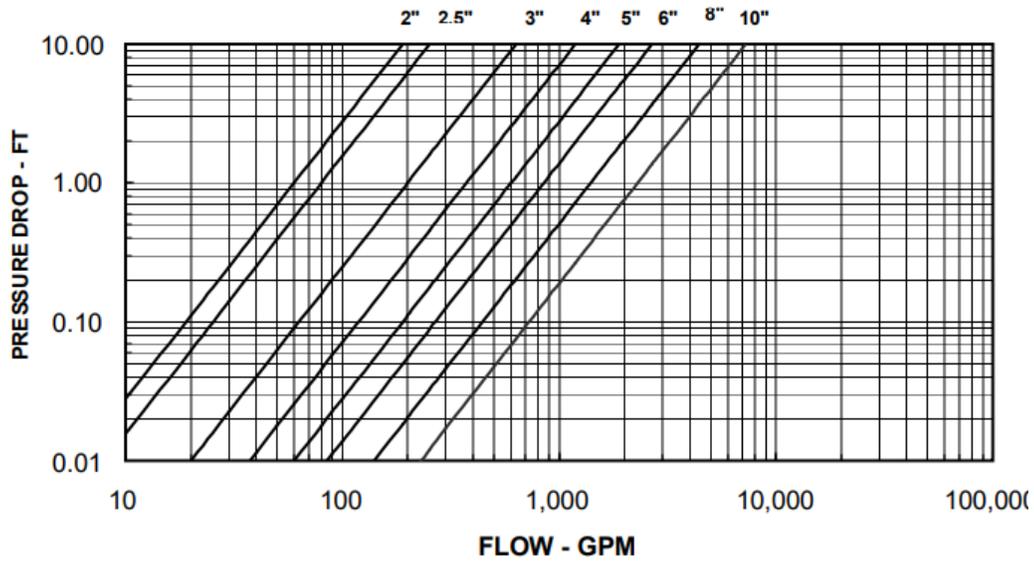
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Pressure Drop Curves

ZPA (LESS STRAINER) - FLOW PERFORMANCE



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