



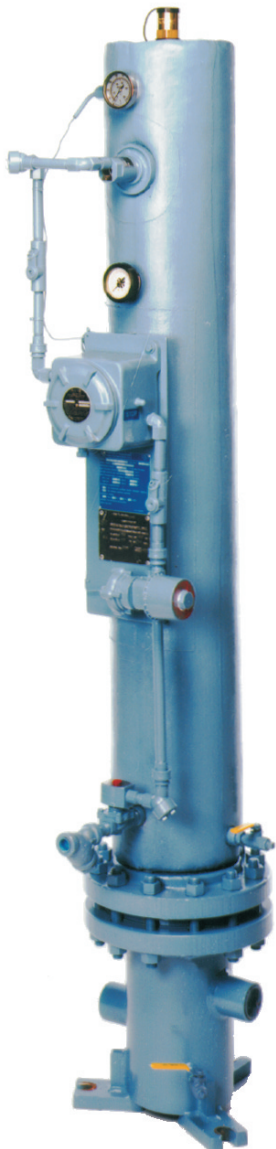
# Algas-SDI™

*...Innovative liquid vaporizing and gas mixing solutions*

ISO 9001  
Certified

# Azeovaire

*Circulating Hot Water Vaporizer; Models: A160W through A4400W*



- *100% turndown capability.*
- *Both LPG and hot water fabrication are stamped in accordance with ASME.*
- *Explosion Proof configuration meets Class I, Division 1, Group D as defined by NFPA pamphlet 70.*
- *Factory Mutual (FM) approved.*
- *Two safety devices to ensure dry superheated vapor.*
- *Bayonet style tubes allow stress-free expansion unlike other designs.*
- *Fully insulated for maximum thermal efficiency.*
- *Ready to connect to plant facilities.*
- *Strainer included.*
- *Stainless steel outer heat exchanger tubes standard.*

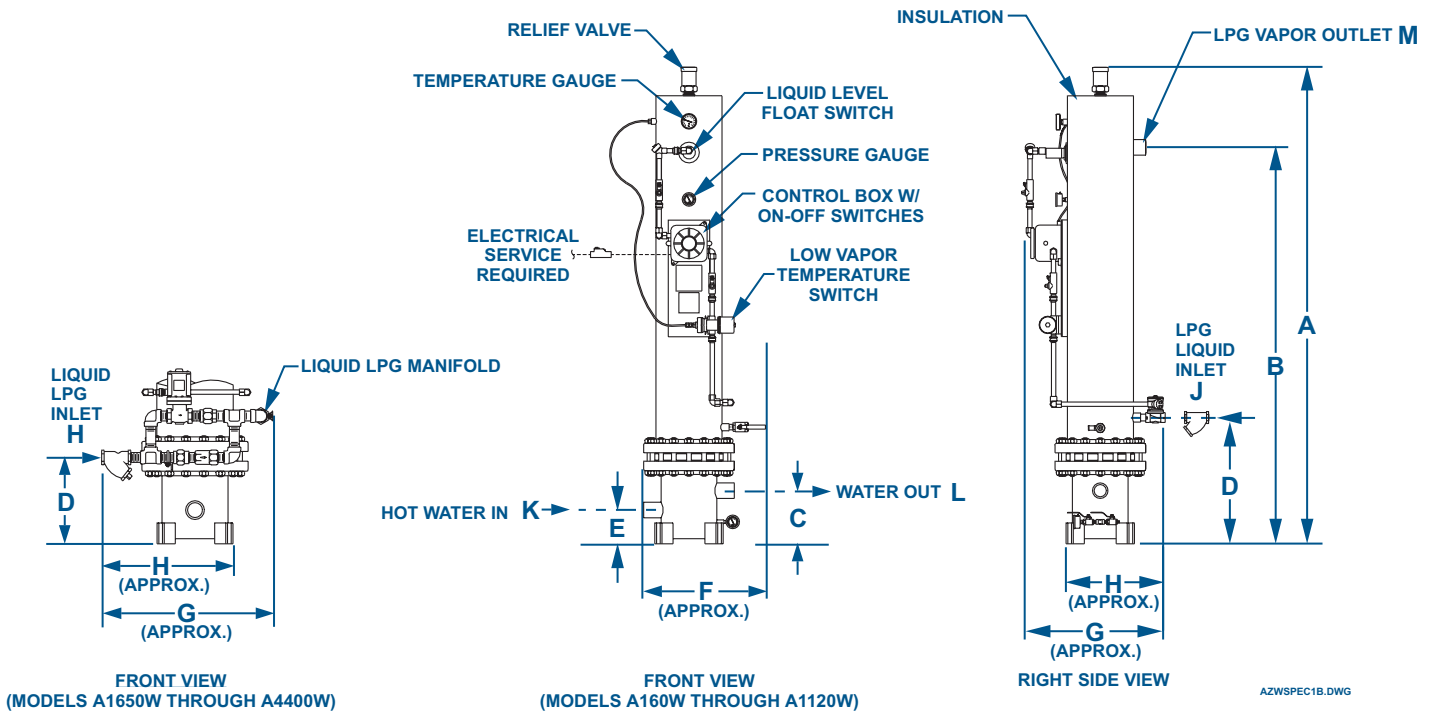
# Specifications

	MODEL	A160W	A320W	A480W	A640W	A800W	A960W	A1120W	A1650W	A2200W	A3300W	A4400W	
<b>Vaporization Capacity</b>	kg/hr	305	610	920	1,230	1,535	1,840	2,150	3,170	4,200	6,300	8,450	
	Million BTU/hr	15	29	44	58	73	87	102	150	200	300	400	
	Million kcal/hr	3.7	7	11	15	18	22	26	38	50	76	101	
<b>Nominal Capacity</b>	US Gallon/hr	160	320	480	640	800	960	1,120	1,650	2,200	3,300	4,400	
<b>Heat Exchanger Surface Area</b>	ft <sup>2</sup>	8.0	16.0	23.0	31.0	39.0	50.0	58.0	83.0	110.0	167.0	267.0	
	m <sup>2</sup>	.75	1.5	2.1	2.9	3.6	4.6	5.5	7.7	10.2	15.5	20.5	
<b>Shipping Weight</b>	lbs	500	600	700	750	825	900	1,000	1,500	2,000	2,800	3,100	
	kg	227	272	318	340	375	409	454	681	909	1,273	1,409	
<b>Water Requirements</b>	GPM	18	35	55	75	90	110	125	190	250	375	500	
	LPM	68	132	208	284	340	415	475	720	950	1,420	1,895	
	°F	194	194	194	194	194	194	194	194	194	194	194	
	°C	90	90	90	90	90	90	90	90	90	90	90	
<b>Heat Exchanger Design Pressure</b>	psig	250	250	250	250	250	250	250	250	250	250	250	
	kg/cm <sup>2</sup>	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
<b>Heat Exchanger Test Pressure</b>	psig	375	375	375	375	375	375	375	375	375	375	375	
	kg/cm <sup>2</sup>	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	
<b>Electrical</b>	Voltage, 1 PH	←					110/50Hz	220/50Hz	→				
	Frequency						110/60Hz	208-240/60Hz					
<b>Relief Valve Set Point</b>	psig	250	250	250	250	250	250	250	250	250	250	250	
	kg/cm <sup>2</sup>	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	

## Features

- LPG pressure vessel is fabricated in accordance with ASME Pressure Vessel Code, Section VIII, Division 1.
- LPG pressure vessel rating: 250 PSIG at 650° F (17.6 Kg/Cm<sup>2</sup> at 343° C).
- U.L. stamped external relief valve: 250 PSIG (17.6 Kg/Cm<sup>2</sup>).
- Factory Mutual (FM) approved.
- All wiring, controls, electrical components and their installation comply with recognized code standards defined in NFPA pamphlet 58 and NFPA pamphlet 70.
- Explosion Proof configuration meets Class I, Division 1, Group D as defined by NFPA pamphlet 70.
- 100% turndown capability.
- Pressure balanced LPG supply/delivery operation.
- Fully insulated.
- Two safety devices to prevent liquid carryover - low vapor temperature switch and high liquid level switch.
- Inlet safety solenoid valve.
- All exposed metal surfaces are mechanically cleaned, primed and painted.
- Complete with all operating and safety controls. Ready to connect to plant facilities.
- Factory tested and packaged.

# Dimensions



FRONT VIEW  
(MODELS A1650W THROUGH A4400W)

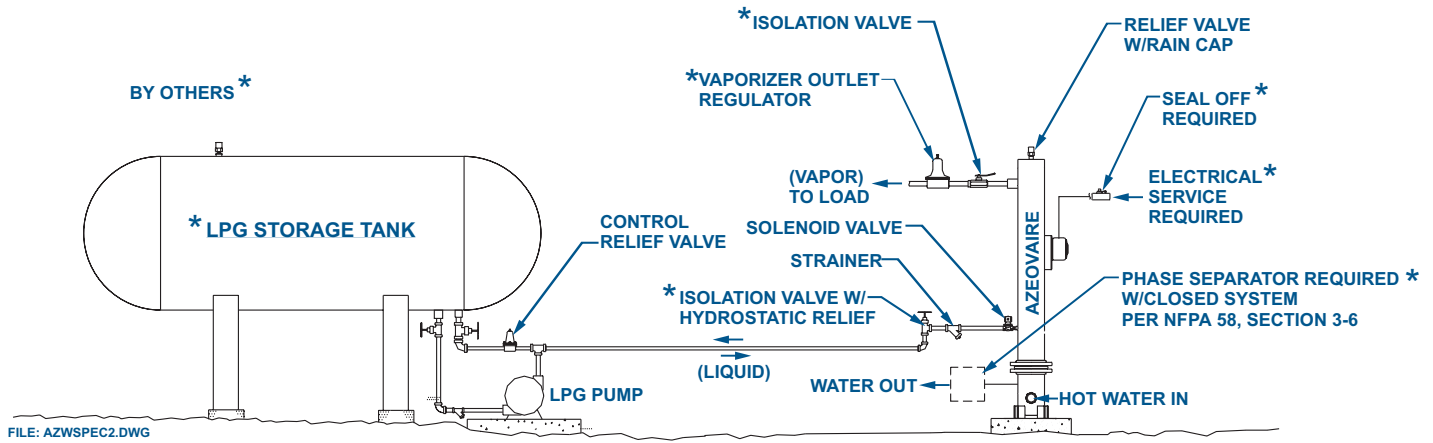
FRONT VIEW  
(MODELS A160W THROUGH A1120W)

RIGHT SIDE VIEW

AZWSPEC1B.DWG

MODEL	A	B	C	D	E	F	G	H	J	K	L	M
<b>A160W</b>	88" 2235 mm	75 3/4" 1924 mm	10 1/4" 260 mm	23 3/4" 603 mm	6 1/2" 165 mm	20" 508 mm	23" 584 mm	14 1/2" 368 mm	3/4" FNPT	2" FNPT	2" FNPT	1" FNPT
<b>A320W</b>	88" 2235 mm	75 3/4" 1924 mm	10 1/4" 260 mm	23 3/4" 603 mm	6 1/2" 165 mm	20" 508 mm	23" 584 mm	14 1/2" 368 mm	3/4" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A480W</b>	88 1/2" 2248 mm	76" 1930 mm	10 1/4" 260 mm	24" 610 mm	6 1/2" 165 mm	21 1/2" 546 mm	25" 635 mm	16 1/2" 419 mm	3/4" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A640W</b>	88 1/2" 2248 mm	76" 1930 mm	10 1/4" 260 mm	24" 610 mm	6 1/2" 165 mm	21 1/2" 546 mm	25" 635 mm	16 1/2" 419 mm	3/4" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A800W</b>	88 1/2" 2248 mm	76" 1930 mm	10 1/4" 260 mm	24" 610 mm	6 1/2" 165 mm	21 1/2" 546 mm	25 1/2" 648 mm	17" 432 mm	1" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A960W</b>	92" 2337 mm	76 1/2" 1943 mm	10 1/4" 260 mm	24 1/4" 616 mm	6 1/2" 165 mm	23 1/2" 597 mm	27 1/2" 698 mm	19" 483 mm	1" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A1120W</b>	92" 2337 mm	76 1/2" 1943 mm	10 1/4" 260 mm	24 1/4" 616 mm	6 1/2" 165 mm	23 1/2" 597 mm	27 1/2" 698 mm	19" 483 mm	1" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A1650W</b>	93 1/4" 2369 mm	76 1/2" 1943 mm	10 9/16" 268 mm	16 1/2" 419 mm	6 1/2" 165 mm	32 1/2" 826 mm	33" 838 mm	25 1/2" 648 mm	1 1/2" FNPT	2" FNPT	2" FNPT	2" FNPT
<b>A2200W</b>	109 1/4" 2775 mm	84" 2134 mm	13 7/8" 352 mm	24" 610 mm	9" 228 mm	38 3/4" 984 mm	33" 838 mm	26" 660	1 1/2" FNPT	3" 150# FLG	3" 150# FLG	2 1/2" FNPT
<b>A3300W</b>	111" 2819 mm	84 1/4" 2140 mm	14 1/4" 362 mm	24" 610 mm	9" 228 mm	40" 1016 mm	37" 940 mm	27" 686 mm	2" FNPT	4" 150# FLG	4" 150# FLG	3" 300# FLG
<b>A4400W</b>	113 1/4" 2877 mm	85 1/4" 2165 mm	14 1/4" 362 mm	24 1/4" 362 mm	9" 228 mm	40 3/4" 1035 mm	37" 940 mm	28" 711 mm	2" FNPT	4" 150# FLG	4" 150# FLG	4" 300# FLG

**For Models A5500W and larger: Please request a dimensional drawing from ASDI Engineering Department**



Note: No check valves in the propane liquid line; liquid must be able to flow both directions.

**AZEOVAIRE®** is a registered U.S. trademark of Algas-SDI



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...Innovative liquid vaporizing and gas mixing solutions

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Form AW0401