



# Azeovaire

Steam Heated Vaporizer; Models: A160S through A4400S



- 100% turndown capability.
- Both LPG and steam 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	A160S	A320S	A480S	A640S	A800S	A960S	A1120S	A1650S	A2200S	A3300S	A4400S
Vaporization Capacity**	kg/hr MM BTU/hr MM kcal/hr	305 15 3.7	610 29 7.3	920 44 11	1,230 58 15	1,535 73 18	1,840 87 22	2,150 102 26	3,170 150 38	4,220 200 50	6,330 300 76	8,450 400 101
Nominal Capacity	U.S. Gal/hr	160	320	480	640	800	960	1,120	1,650	2,200	3,300	4,400
Heat Exchanger	ft <sup>2</sup>	8	16	23	31	39	50	58	83	110	167	267
Surface Area	m <sup>2</sup>	.75	1 <b>.</b> 5	2.1	2.9	3.6	4.6	5.4	7.7	10.2	15.5	20.5
Shipping Weight	lbs	600	700	800	1100	1,150	1,500	1,750	2,000	2,400	3,000	3,400
	kg	272	318	369	506	529	690	805	920	1,090	1,364	1,545
Heat Exchanger	psig	250	250	250	250	250	250	250	250	250	250	250
Design Pressure	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
Heat Exchanger	psig	375	375	375	375	375	375	375	375	375	375	375
Test Pressure	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
Steam	psig	15	15	15	15	15	15	15	15	15	15	15
Requirements	kg/cm²	1	1	1	1	1	1	1	1	1	1	1
Electrical	Vltg, 1 Ph Frequency		•		1	110/50 Hz 110/60 Hz		220/50 Hz 208-240/60 Hz				

For larger models please contact ASDI for more information.

<sup>\*\*</sup>Vaporization capacity ratings at 100 psig [7.0 kg/cm²] and at 0°F (-17.8°C) liquid propane.

STEAM CONSUMPTION REQUIRED FOR LPG VAPORIZATION		STEAM CONSUMPTION							
		Vaporization	on Capacity	Steam Required @ 100% Load					
AZEOVAIRE® Steam Heated LPG vaporizers require a	Model	GPH	kg/hr	lbs/hr	kg/hr				
quantity of steam proportional to usage. A simple rule	A160S	160	306	160	73				
when estimating steam consumption is 1lb. of steam to	A320S	320	611	320	145				
vaporize 1 gallon of LPG.	A480S	480	917	480	218				
For example, an AZEOVAIRE <sup>®</sup> model A2200S with a	A640S	640	1222	640	291				
maximum LPG vaporization capacity of 2200 GPH,	A800S	800	1528	800	364				
(4202 kg/hr), but with a plant usage of only 1100 GPH	A960S	960	1834	960	436				
(2120 kg/hr) will consume approximately 1100 lbs. of	A1120S	1120	2139	1120	509				
steam per hour (509 kg/hr).	A1650S	1650	3152	1650	750				
A release a second control of the second control is	A2200S	2200	4202	2200	1000				
A phase separator may be required if the condensate is recirculated.	A3300S	3300	6303	3300	1500				
Toolioudica.	A4400S	4400	8404	4400	2000				

# **Features**

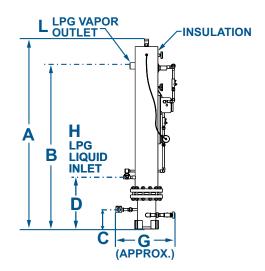
- LPG pressure vessel is fabricated and stamped in accordance with ASME Pressure Vessel Code, Section VIII, Division 1.
- LPG pressure vessel rating: 250 psig at 650°F (17.6 kg/cm² at 343°C).
- U.L. stamped external relief valve: 250 psig (17.6 kg/cm²).
- All wiring, controls, electrical components and their installation comply with recognized code standards defined in NFPA pamphlet 58 and NFPA pamphlet 70.
- Pressure balanced LPG supply/delivery operation.
- · Fully insulated.

- Two safety devices prevent liquid carryover low vapor temperature switch and high liquid level float switch.
- Inlet safety solenoid valve.
- Steam trap with strainer.
- Steam temperature gauge.
- All exposed metal surfaces are mechanically cleaned, primed and painted.
- Factory tested and packaged.

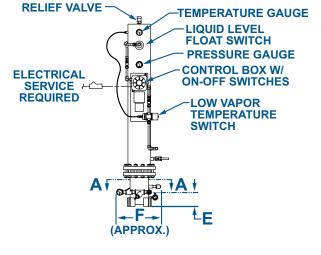
#### **Options**

• Stainless steel heat exchanger tubes.

# **Dimensions**

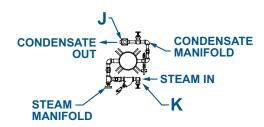


## **LEFT SIDE VIEW**

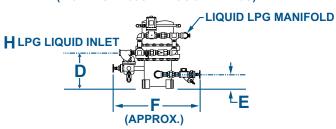


## **FRONT VIEW**

(MODELS A160S THROUGH A1120S)



### **LOWER SECTIONAL VIEW**



### **LEFT SIDE VIEW**

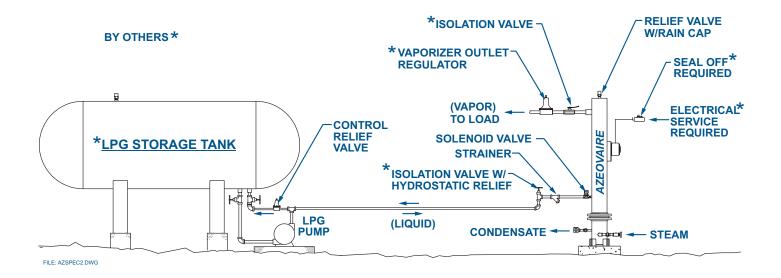
(MODELS A1650S THROUGH A4400S)

FILE: AZSPEC1C.DWG

MODEL	Α	В	С	D	E	F	G	Н	J	K	L
A160S	88"	75 3/4"	9 1/4"	23 3/4"	6 1/2"	18 1/2"	25 1/2"	3/4"	3/4"	3/4"	1"
	2235 mm	1924 mm	235 mm	603 mm	165 mm	470 mm	648 mm	FNPT	FNPT	FNPT	FNPT
A320S	88"	75 3/4"	9 1/4"	23 3/4"	6 1/2"	18 1/2"	25 1/2"	3/4"	3/4"	3/4"	2"
A480S	2235 mm 88 1/2"	1924 mm 76"	235 mm 9 1/4"	603 mm 24"	165 mm 6 1/2"	470 mm 21"	648 mm 27"	5/4"	5/4"	FNPT 1"	FNPT 2"
	2248 mm	1930 mm	235 mm	610 mm	165 mm	533 mm	685 mm	FNPT	FNPT	FNPT	FNPT
	88 1/2"	76"	9 1/4"	24"	6 1/2"	21"	27"	3/4"	3/4"	1"	2"
A640S	2248 mm	1930 mm	235 mm	610 mm	165 mm	533 mm	685 mm	FNPT	FNPT	FNPT	FNPT
A800S	88 1/2"	76"	9 1/4"	24"	6 1/2"	21"	27"	1"	1"	1 1/2"	2"
	2248 mm	1930 mm	235 mm	610 mm	165 mm	533 mm	685 mm	FNPT	FNPT	FNPT	FNPT
A960S	92"	76 3/8"	9 3/8"	24 1/4"	6 1/2"	27"	36 1/2"	1"	1"	1 1/2"	2"
	2337 mm	1940 mm	238 mm	616 mm	165 mm	686 mm	927 mm	FNPT	FNPT	FNPT	FNPT
A1120S	92"	76 3/8"	9 3/8"	24 1/4"	6 1/2"	27"	36 1/2"	1"	1"	1 1/2"	2"
	2337 mm	1940 mm	238 mm	616 mm	165 mm	686 mm	927 mm	FNPT	FNPT	FNPT	FNPT
A1650S	93 1/4"	76 3/8"	9 3/8"	16 1/2"	6 1/2"	30"	38 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
	2369 mm	1940 mm	238 mm	419 mm	165 mm	762 mm	978 mm	FNPT	FNPT	FNPT	FNPT
A2200S	101 3/4"	76 3/8"	9 3/4"	16 1/2"	6 1/2"	33 1/2"	42 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
	2584 mm	1940 mm	248 mm	419 mm	165 mm	851 mm	1080 mm	FNPT	FNPT	FNPT	FNPT
A3300S	103 1/2"	76 5/8"	9 11/16"	16 1/2"	6 1/2"	38 1/2"	42"	2"	1 1/2"	2"	3" 300#
	2662 mm	1940 mm	246 mm	419 mm	165 mm	978 mm	1092 mm	FNPT	FNPT	FNPT	FLG
A4400S	105 1/2"	76 5/8"	9 11/16"	16 1/2"	6 1/2"	41 1/2"	50"	2"	1 1/2"	2 1/2"	4" 300#
	2680 mm	1940 mm	246 mm	419 mm	165 mm	1054 mm	1270 mm	FNPT	FNPT	FNPT	FLG

Product improvement is a continuing goal at Algas-SDI. Designs and specifications are subject to change without notice or obligation.

\* Size may depend upon steam conditions. Refer to factory for specific size.



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** 





## Offered By:

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