



Algas-SDI™

...Innovative liquid vaporizing and gas mixing solutions

ISO 9001
Certified

Azeovaire-AA

Anhydrous Ammonia Steam Heated Vaporizer; Models A480SAA through A6600SAA



- *Safely and efficiently vaporizes anhydrous ammonia for SCR, SNCR and FGC systems as well as other industrial and commercial applications.*
- *100% turndown capability.*
- *Stainless steel, float activated high liquid NH₃ level shutdown switch.*
- *Two safety devices to ensure dry superheated NH₃.*
- *Air actuated stainless steel inlet shutoff valve.*
- *Proven reliability in SCR systems around the world.*
- *DCS Interface.*

Features

- ◆ *NH₃ pressure vessel is fabricated in accordance with ASME Pressure Vessel Code, Section VIII, Division 1.*
- ◆ *NH₃ pressure vessel rating: 250 PSIG at 650°F (17.6 Kg/CM² at 343°C).*
- ◆ *ASME and U.L. stamped external relief valve: 250 PSIG (17.6 Kg/CM²).*
- ◆ *Explosion Proof configuration meets Class I, Division 1, Group D as defined by NFPA pamphlet 70.*
- ◆ *Fully insulated.*

- ◆ *Pressure balanced NH₃ supply/delivery operation.*
- ◆ *Steam trap with strainer.*
- ◆ *Steam temperature gauge.*
- ◆ *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.*

Options

- ◆ *Aqueous ammonia configuration available.*
- ◆ *350 psig pressure rating.*
- ◆ *Post-weld heat treat.*
- ◆ *Vapor temperature transmitter.*

Specifications

	MODEL	A480SAA	A960SAA	A1200SAA	A1680SAA	A2475SAA	A3300SAA	A4950SAA	A6600SAA
Vaporization Capacity*	lbs/hr	480	960	1,200	1,680	2,475	3,300	4,950	6,600
	kg/hr	218	436	545	764	1,125	1,500	2,250	3,000
Heat Exchanger Surface Area	ft ²	16	31	39	58	83	110	167	267
	m ²	1.5	2.9	3.6	5.4	7.7	10.2	15.5	20.5
Shipping Weight	lbs	700	1,100	1,150	1,750	2,000	2,400	3,000	3,400
	kg	318	506	529	805	920	1,090	1,364	1,545
Heat Exchanger Design Pressure	psig	250	250	250	250	250	250	250	250
	kg/cm ²	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
Heat Exchanger Test Pressure	psig	375	375	375	375	375	375	375	375
	kg/cm ²	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
Steam Requirements	psig	← 15-150 psig →							
	kg/cm ²	← 1-10 kg/cm ² →							
Electrical	Voltage, 1ph	← 110/50 Hz 220/50 Hz →							
	Frequency	← 110/60 Hz 208-240/60 Hz →							

- ♦ Vaporization capacity ratings at 100 F (37.8 C) saturated liquid ammonia inlet, 15 F superheated ammonia outlet with 15 psig saturated steam. Higher pressures or lower temperatures may decrease capacity. For larger models, please contact ASDI for more information.

STEAM CONSUMPTION REQUIRED FOR NH ₃ VAPORIZATION	STEAM CONSUMPTION	
	Model	Steam Required @ 100% Load (Lbs/Hr)
	Vaporization Capacity (Lbs/Hr)	
<p>AZEOVAIRE® Steam Heated NH₃ vaporizers require a quantity of steam proportional to usage. A simple rule when estimating steam consumption is 1lb. of steam to vaporize 1.8 lbs. of NH₃.</p> <p>For example, an AZEOVAIRE® Model A1200SAA with a maximum ammonia vaporization capacity of 1200 lbs/Hr, but with a plant usage of only 1100 lbs/Hr will consume approximately 611 lbs. of steam per hour.</p>	A480SAA	266
	A960SAA	532
	A1200SAA	664
	A1680SAA	930
	A2475SAA	1370
	A3300SAA	1827
	A4950SAA	2741
	A6600SAA	3654



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

Home Office:

1140 NW 46th Street
PO Box 70498
Seattle, Washington 98107 USA

Tel: 206.789.5410
Fax: 206.789.5414

e-mail: sales@algas-sdi.com
internet: www.algas-sdi.com

Beijing Office:

Room A1007 Huibin Office Building
No. 8 Beichen Dong St.
Chaoyang District, Beijing 100101, P.R.C.

Tel: 86.10.64969593, 64993818
Fax: 86.10.64969592, 64993817

e-mail: algasbj@public.east.cn.net

Mexico Office:

Bosque de Alisos number 47-A 5 Piso
Col. Bosques de las Lomas
Mexico D.F. 05120

Tel: 52.5261.8100
Fax: 52.5259.8085

e-mail: algas-sdi@cft.com.mx

Your ASDI distributor:



Form: AZSAA0401