



# 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 NH<sub>3</sub> level shutdown switch.*
- *Two safety devices to ensure dry superheated NH<sub>3</sub>.*
- *Air actuated stainless steel inlet shutoff valve.*
- *Proven reliability in SCR systems around the world.*
- *DCS Interface.*

## Features

- ◆ *NH<sub>3</sub> pressure vessel is fabricated in accordance with ASME Pressure Vessel Code, Section VIII, Division 1.*
- ◆ *NH<sub>3</sub> pressure vessel rating: 250 PSIG at 650°F (17.6 Kg/CM<sup>2</sup> at 343°C).*
- ◆ *ASME and U.L. stamped external relief valve: 250 PSIG (17.6 Kg/CM<sup>2</sup>).*
- ◆ *Explosion Proof configuration meets Class I, Division 1, Group D as defined by NFPA pamphlet 70.*
- ◆ *Fully insulated.*

- ◆ *Pressure balanced NH<sub>3</sub> 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
<b>Vaporization Capacity*</b>	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
<b>Heat Exchanger Surface Area</b>	ft <sup>2</sup>	16	31	39	58	83	110	167	267
	m <sup>2</sup>	1.5	2.9	3.6	5.4	7.7	10.2	15.5	20.5
<b>Shipping Weight</b>	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
<b>Heat Exchanger Design Pressure</b>	psig	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
<b>Heat Exchanger Test Pressure</b>	psig	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
<b>Steam Requirements</b>	psig	← 15-150 psig →							
	kg/cm <sup>2</sup>	← 1-10 kg/cm <sup>2</sup> →							
<b>Electrical</b>	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 <sub>3</sub> VAPORIZATION	STEAM CONSUMPTION		
	Model	Vaporization Capacity (Lbs/Hr)	Steam Required @ 100% Load (Lbs/Hr)
<p>AZEOVAIRE® Steam Heated NH<sub>3</sub> 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 NH<sub>3</sub>.</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	480	266
	A960SAA	960	532
	A1200SAA	1200	664
	A1680SAA	1680	930
	A2475SAA	2475	1370
	A3300SAA	3300	1827
	A4950SAA	4950	2741
	A6600SAA	6600	3654



...Innovative liquid vaporizing and gas mixing solutions



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