

# Algas-SDI™

...Innovative liquid vaporizing and gas mixing solutions

ISO 9001  
Certified

## Azeovaire-AA

Anhydrous Ammonia Circulating Hot Water Vaporizers; Models A320WAA through A4400WAA



- 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.
- Stainless steel heat exchanger tubes.

### 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°).
- ◆ ASME and UL 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.

- ◆ Pressure balanced NH<sub>3</sub> supply/delivery operation.
- ◆ Fully insulated.
- ◆ 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.

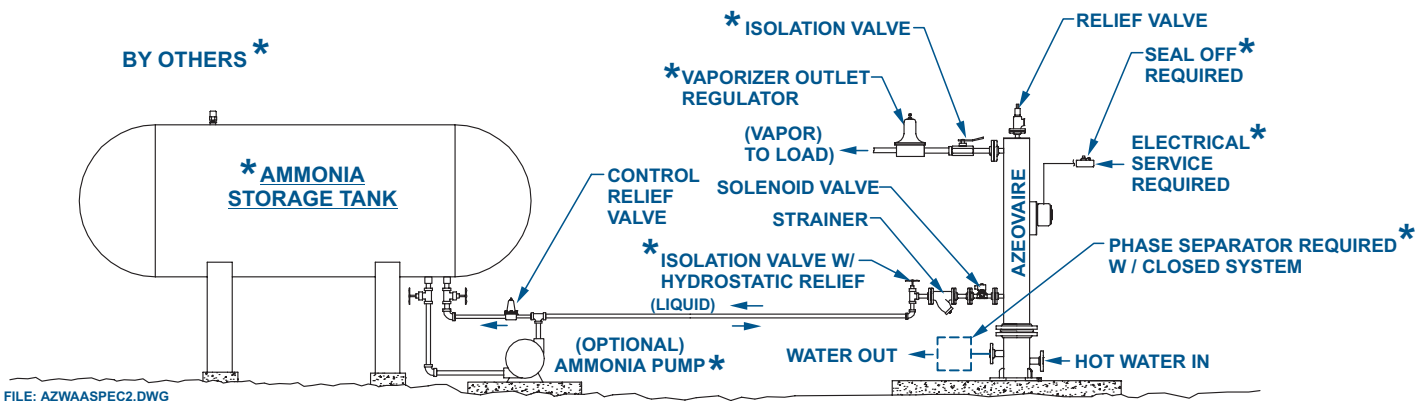
### Options

- ◆ 350 psig pressure vessel rating.
- ◆ Post-weld heat treat.
- ◆ Vapor temperature transmitter.

# Specifications

	MODEL	A320WAA	A640WAA	A800WAA	A1120WAA	A1650WAA	A2200WAA	A3300WAA	A4400WAA
<b>Vaporization Capacity*</b>	lbs/hr	320	640	800	1,120	1,650	2,200	3,300	4,400
	kg/hr	145	291	364	509	750	1,000	1,500	2,000
<b>Water Requirements</b>	GPM	35	75	90	125	190	250	375	500
	LPM	132	284	340	475	720	950	1,420	1,895
<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>Hot Water Requirements</b>	°F	200	200	200	200	200	200	200	200
	°C	93	93	93	93	93	93	93	93
<b>Electrical</b>	Vltg, 1ph	←		110/50 hz		220/50 hz		→	
	Freq.			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. Higher pressures or lower temperatures may decrease capacity. For larger models, please contact ASDI for more information.



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