



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 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.
- Stainless steel heat exchanger tubes.

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°).
- ◆ ASME and UL 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.

- ◆ Pressure balanced NH₃ 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.

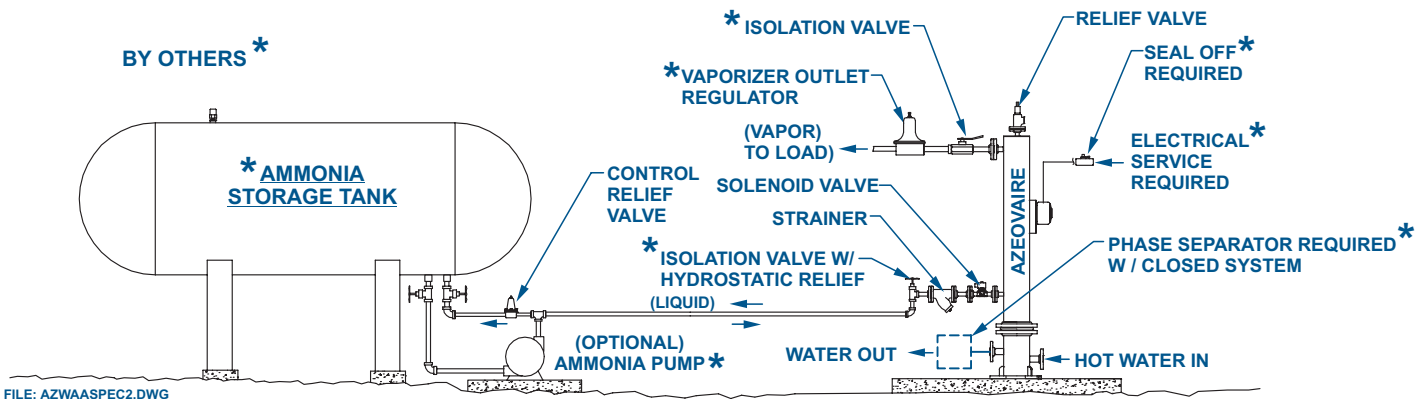
Options

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

Specifications

	MODEL	A320WAA	A640WAA	A800WAA	A1120WAA	A1650WAA	A2200WAA	A3300WAA	A4400WAA
Vaporization Capacity*	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
Water Requirements	GPM	35	75	90	125	190	250	375	500
	LPM	132	284	340	475	720	950	1,420	1,895
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
Hot Water Requirements	°F	200	200	200	200	200	200	200	200
	°C	93	93	93	93	93	93	93	93
Electrical	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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