

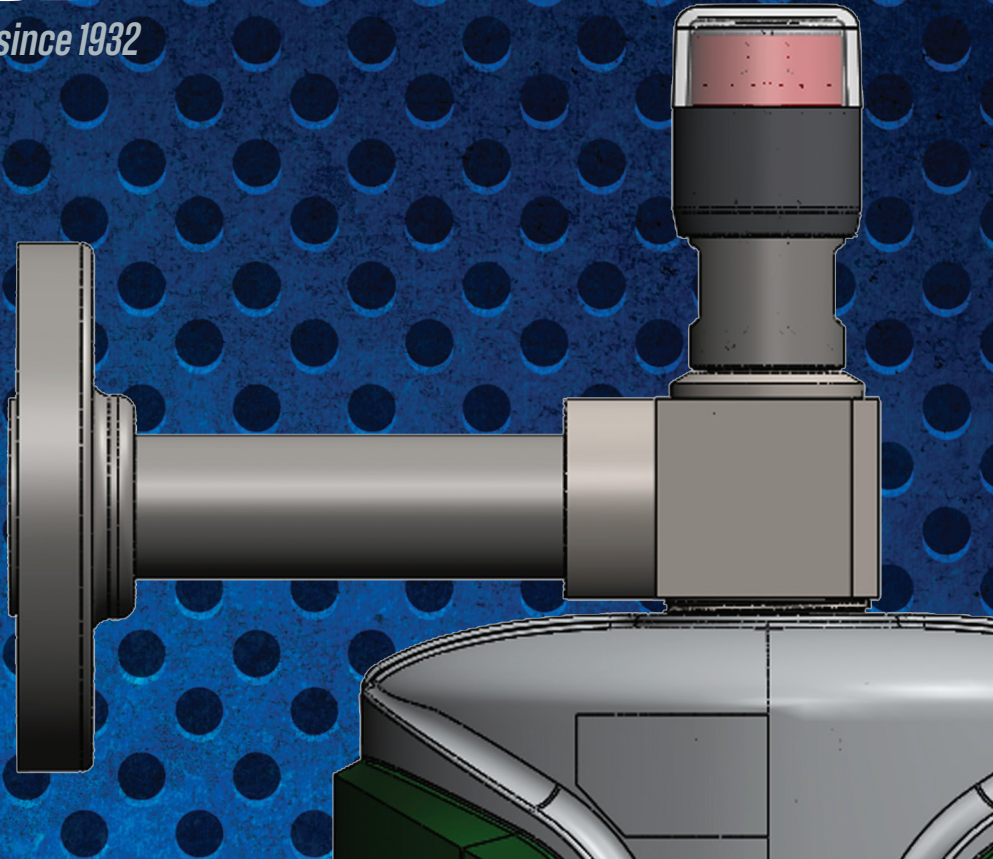


Algas-SDI

Innovation since 1932



ISO 9001
Certified



Torrex-AATM

Anhydrous Ammonia
Electric Vaporizer

Indirect Heated

NH₃

algas-sdi.com

Single Core Electric Vaporizer

TorrexX™ eliminates the corrosion, evaporation and frequent 'shut-downs' associated with electric NH₃ waterbath vaporizers.

¾" FLG 300#
VAPOR
OUTLET



Key Points

98% thermal efficiency

Corrosion-free

Simple and compact

No water-glycol

Heavy-duty contactor or hermetic relay

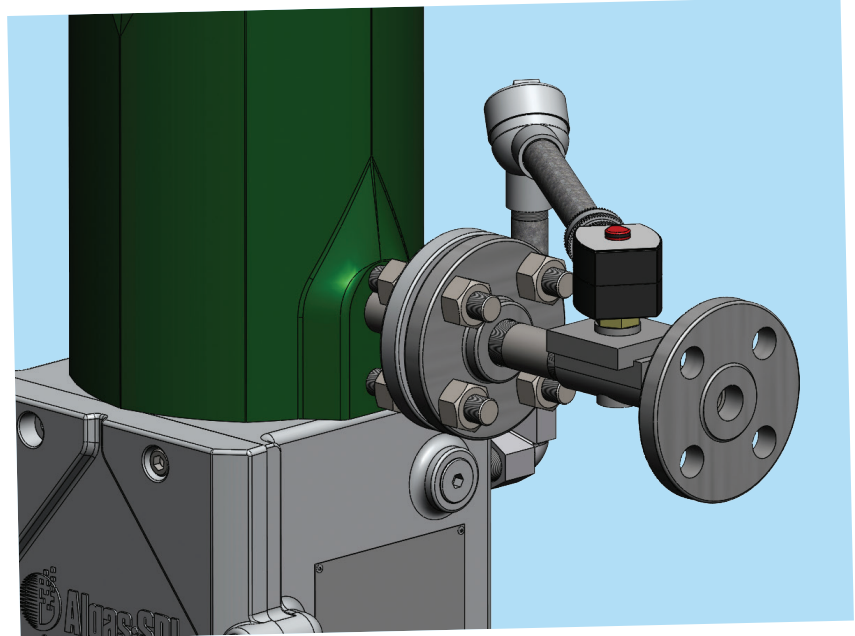
Temperature controller is simple to replace

Liqui-SAFE™ Valve

Thermocouple temperature sensor

Auto-restart after power interruption

Easily fits inside cabinet



Since our first dry electric vaporizer patent in 1972, Algas-SDI has shipped tens of thousands of units to 87 countries on six continents.

TorrexX AA vaporizers provide 100% turn down capability and are constructed from corrosion resistant materials. The all-aluminum pressure vessel and heater core assembly is equipped with stainless steel flanges on the liquid inlet and vapor outlet. A flanged stainless steel liquid inlet solenoid valve is also provided as standard. No "yellow metals" are used on the liquid or vapor portions of the vaporizer.

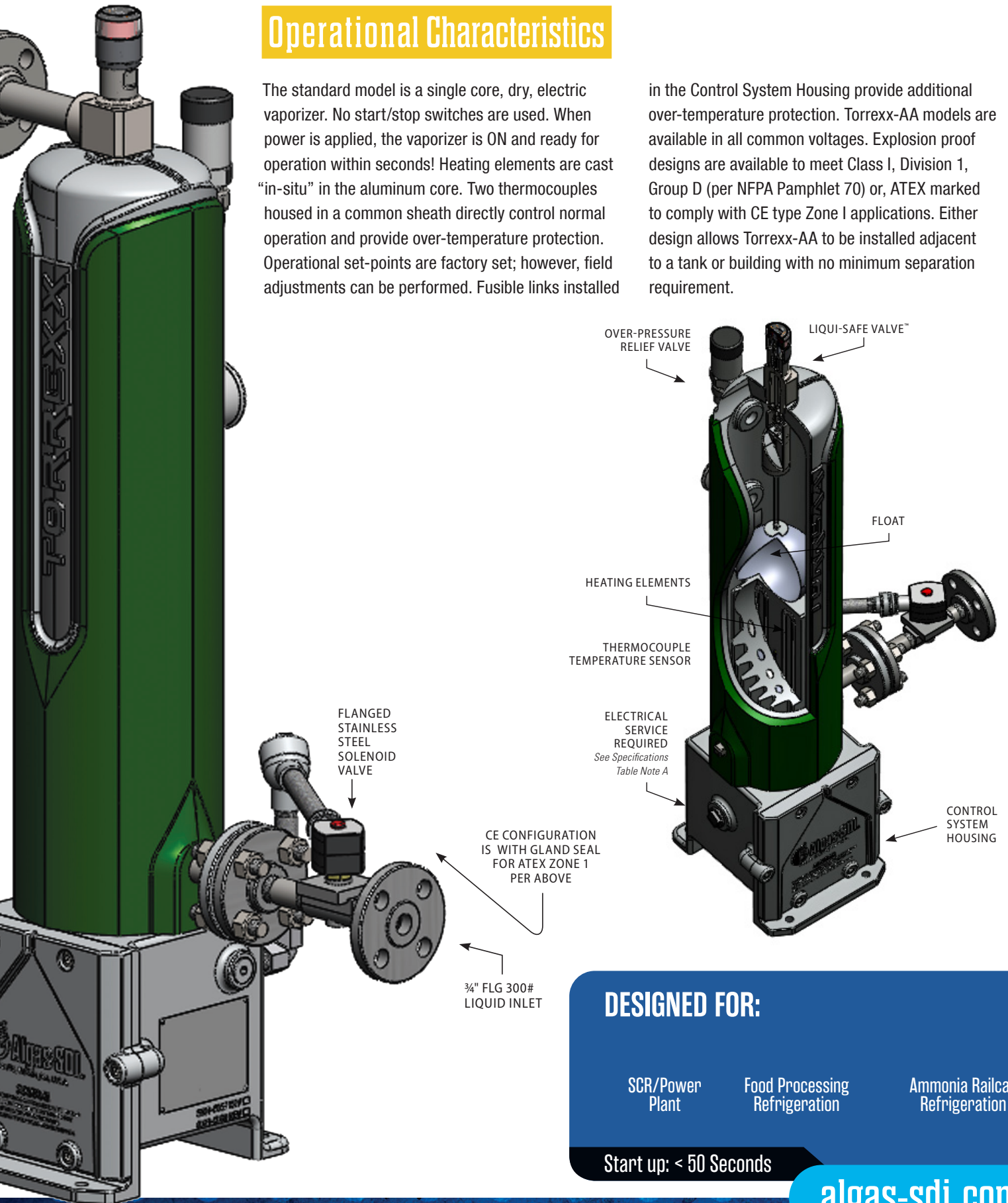
A robust 135amp rated contactor provides power to the heating elements. The modular temperature controller allows easy maintenance or replacement. In the event of a "high liquid level occurrence," our proprietary Liqui-Safe Valve™ prevents liquid anhydrous ammonia from passing downstream of the vaporizer. The valve provides visual indication of activation. This allows easy troubleshooting and also assures the end user that the device is functioning properly.



Operational Characteristics

The standard model is a single core, dry, electric vaporizer. No start/stop switches are used. When power is applied, the vaporizer is ON and ready for operation within seconds! Heating elements are cast "in-situ" in the aluminum core. Two thermocouples housed in a common sheath directly control normal operation and provide over-temperature protection. Operational set-points are factory set; however, field adjustments can be performed. Fusible links installed

in the Control System Housing provide additional over-temperature protection. Torrex-AA models are available in all common voltages. Explosion proof designs are available to meet Class I, Division 1, Group D (per NFPA Pamphlet 70) or, ATEX marked to comply with CE type Zone I applications. Either design allows Torrex-AA to be installed adjacent to a tank or building with no minimum separation requirement.



DESIGNED FOR:

SCR/Power Plant

Food Processing Refrigeration

Ammonia Railcar Refrigeration

Start up: < 50 Seconds

algas-sdi.com

Vaporization Type:	Indirect dry electric														
Electrical Data:	'MODEL		TX19AA		TX38AA		TX75AA		TX120AA		TX180AA		TX240AA		
	VOLTAGE	PHASE	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	
	120	1	3.9	32.5											
	208	1	2.9	14.1	5.9	28.1	11.7	56.2	17.8	49.6					
		3				16.3		32.5							
	220	1	3.3	14.9	6.5	29.7	13.1	59.5	20	52.4					
		3				17.2		34.4							
	240	1	3.9	16.2	7.8	32.4	13	54	21.5	51.9					
		3				18.8		15.6			37.5				
	380	3			6.5	9.9	13.1	19.9	20	30.3	29.8	45.4	39.3	59.7	
	400	3			7.2	10.4	14.4	20.8	20	28.9	33	48	36.6	52.8	
	415	3			7.7	10.8	15.6	21.7	21.5	30	35.6	50	39.5	55	
	440	3					13.1	17.2	20	26.2	30	39.4	39.4	51.7	
	480	3					15.6	18.8	21.5	26	35.6	43	39.5	47.5	
	575	3											39.2	39.4	
Electrical Class:	Hazardous Area Classification — Class I, Division 1, Group D / ATEX Zone I, EEx d IIB T2 94/9EC														
Vaporizer Approvals:	FM (U.S. and Canada), NEMKO, CE, ² PED Marked, designed per ASME														
³Vaporization Capacity:	TX19AA	TX38AA	TX75AA	TX120AA	TX180AA	TX240AA									
lbs/hr	19	38	75	120	180	240									
kg/hr	9	17	34	54	82	109									
Design Pressure:	← 250 PSIG 17.2 Barg →														
Relief Valve Set Point:	← 250 PSIG 17.2 Barg →														
Hydrostatic Test Pressure:	← 375 PSIG 25.9 Barg →														
Shipping Weight:	185 lbs 82 kg	185 lbs 82 kg	190 lbs 87 kg	200 lbs 91 kg	225 lbs 103 kg	235 lbs 107 kg									
Shipping Dimensions:	— See Note B —														
Height	54" 1372 mm	54" 1372 mm	54" 1372 mm	54" 1372 mm	66" 1676 mm	66" 1676 mm									
Width	33" 838 mm	19" 483 mm	19" 483 mm	19" 483 mm	19" 483 mm	19" 483 mm									
Length	19" 483 mm	19" 483 mm	19" 483 mm	19" 483 mm	24" 610 mm	24" 610 mm									

¹ Torrex AA is offered in Multi-Core models. Contact your Algas-SDI representative.

² PED is per 'Module "H"

Note A: Electrical Connection

FM version: 1" FNPT with 11½" pitch threads

NEMKO version: Requires P/N37041 transition from 1" FNPT to M32 female threads

External Explosion Proof Box version: 1¼" FNPT

Note B: Hermetic Relay Version

TX240 and TX320 using an external Explosion Proof Box, add 7" (178mm) to L dimensions. Add 100 lbs (46kg) to each unit.

Algas-SDI developed its first vaporizer in 1932. Over eighty years later, we still lead our markets in quality, innovation and commitment to purpose. Our **industrial products** serve "off grid" transportable gaseous fuel users for their CNG, LPG or SNG needs. Our **environmental products** provide safe, efficient and proven vaporization of anhydrous ammonia and certain other liquefied gases.



151 S. Michigan Seattle, WA USA 98108
 P 206-789-5410 | F 206-789-5414
 sales@algas-sdi.com



algas-sdi.com

