

# Algas-SDI™

...Innovative liquid vaporizing and gas mixing solutions

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# PowerXP-AA

Anhydrous Ammonia Vaporizer Series - Economy Operation Option



- Automatically minimizes electric power required to meet your ammonia vapor demand.
- Fully automated - no operator required.
- Reduces wear.
- Reduces maintenance requirement.
- Economic Savings:

	Competitors Electric Waterbath Vaporizer	XP With Economy
Capacity	120 lbs./hr.	120 lbs./hr.
Electric energy required:	25 kw	20kw
Cost of electricity:	\$0.10/kw-h	\$0.10/kw-h
Hours of operation per day:	24 hrs	24 hrs
Cost of operation (cold day):	\$60/day	\$48/day
Cost of operation (warm day):	\$60/day	\$24/day

- Using the XP:

You save \$12/day on cold days: 20% operational cost savings.  
You save \$36/day on warm days: 60% operational cost savings.

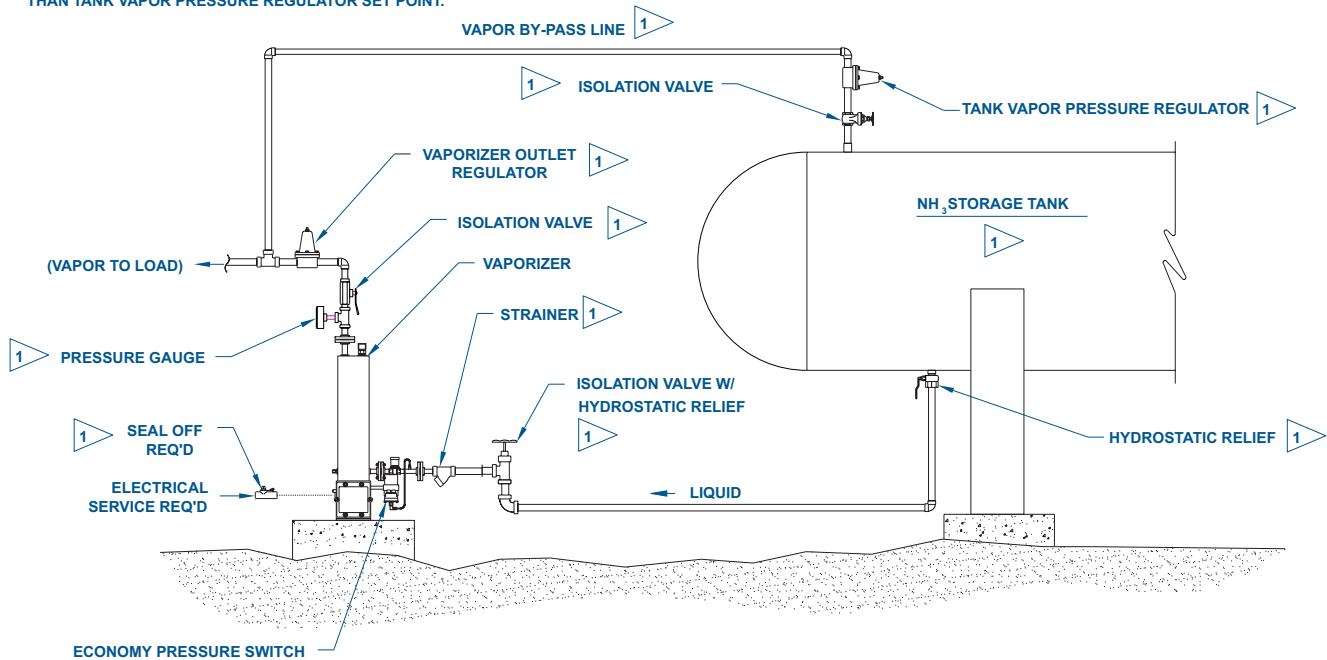
\*The XP requires less electric power because it is 98% efficient.

Assumes constant 120 lbs/hr load and assumes natural vaporization handles 50% of daily requirement on warm days.



## NOTES

1. BY OTHERS
2. INSTALL VAPORIZER PER ANSI K-61.1 AND NFPA 70 (NEC)
3. INSTALL VAPORIZER OUTLET REGULATOR UPSTREAM OF TANK VAPOR PRESSURE CONNECTION POINT.
4. SET VAPORIZER OUTLET REGULATOR 2-4 PSIG HIGHER THAN TANK VAPOR PRESSURE REGULATOR SET POINT.



## Specifications

- ◆ The economy option can be installed in the factory or added to an existing XP vaporizer in the field.
- ◆ Includes automatic restart option to restart the vaporizer in the event of a power failure.
- ◆ The economy operation option minimizes the electric power required to meet your vapor demand by shutting off the vaporizer when the natural vaporization rate of the storage tank is able to supply enough vapor to meet the demand.
- ◆ When the vaporizer is shut off, vapor is supplied to the load via a vapor bypass line linking the storage tank vapor space and the vapor distribution line downstream of the vaporizer.
- ◆ When natural vaporization can no longer meet the vapor demand due to decreased tank pressure, the economy system automatically energizes the vaporizer.
- ◆ The vaporizer supplies the demand until natural vaporization from the tank is again sufficient to supply the load.



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