





- Safely and efficiently vaporizes anhydrous ammonia for commercial and industrial applications.
- Two safety devices to ensure dry, superheated vapor.
- 100% Turndown can operate in dry condition.
- Available with feed-forward or feed-back design.
- Requires less than one minute to reach operating temperature from a cold start.
- Designed to meet the precise control requirements of the industrial process industry.
- The standard for applications such as thermal DE-NO<sub>x</sub> systems.
- Class I, Division 1, Group D.
- Flanged connections standard.









## **Specifications**

	MODEL	XP19AA	XP38AA	XP75AA	XP120AA
Vaporization	Lb/hr	19	38	75	120
Capacity *	kg/hr	9	17	34	54
Heat Exchanger	Ft <sup>2</sup>	2.9	2.9	2.9	4.3
Surface Area	m <sup>2</sup>	.27	.27	.27	.40
Pressure Vessel	Psig	250	250	250	250
Design Pressure	kg/cm <sup>2</sup>	17.6	17.6	17.6	17.6
Pressure Vessel	Psig	375	375	375	375
Test Pressure	kg/cm <sup>2</sup>	26.3	26.3	26.3	26.3
Pressure Vessel	U.S. Gallons	.95	.95	.95	1.6
Liquid Capacity	liters	3.61	3.61	3.61	6.0
Operating	°F	160-175	160-175	160-175	160-175
Temp. Range	°C	71-79	71-79	71-79	71-79
Shipping Weight	lbs	100	100	100	130
	kg	45	45	45	59

\*Vaporization capacity ratings at 15 psig (1.0 kg/cm<sup>2</sup>) and 0°F (-17.8°C) at liquid inlet with full rated voltage. Higher pressures or lower temperatures will decrease the capacity accordingly. Vaporization capacity ratings vary relative to input and rated voltage.

For more information, contact your local ASDI distributor or factory Customer Service (USA) representative.

## **Electrical**

	MODEL	XP19AA		XP38AA		XP75AA		XP120AA	
VOLTAGE	PHASE	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS
120	1	3.9	32.5						
	1	2.9	14.1		28.1		56.2		
208	3			5.9	16.3	11.7	32.5	17.8	49.6
	1	3.3	14.9		29.7		59.5		
220	3			6.5	17.2	13.1	34.4	20.0	52.4
	1	3.9	16.2		32.4	13.0	54.0		
240	3			7.8	18.8	15.6	37.5	23.8	57.3
380	3			6.5	9.9	13.1	19.9	20.0	30.3
415	3			7.7	10.8	15.6	21.7	23.8	33.1
440	3					13.1	17.2	20.0	26.3
480	3					15.6	18.8	23.8	28.7

All models are 50/60 Hz.

# **Properties of Ammonia**

	Anhydrous Ammonia
Chemical Formula	NH <sub>3</sub>
Molecular Weight	17.031
Latent Heat of Vap @ Boiling Point & 1 ATM, BTU/lb	589.3
Ignition Temperature, °F	1562
Flamability Limits (Percent In Air, By Volume)	16-25%
Boiling Point, °F (1 ATM)	-29
Specific Gravity of Gas (Air=1.00)	.588
Specific Gravity of Liquid (Water=1.00)	.618
Lbs. Per Gallon of Liquid at 60°F	5.15
Cubic Ft. of Vapor at 60°F/Gallon of Liquid at 60°F	114.9
Cubic Ft. of Vapor at 60°F/lb. of Liquid at 60°F	22.3

### **Dimensions**



# Features

- Explosion Proof configuration meets Class I, Division 1, Group D as defined by NFPA pamphlet 70.
- Pressure vessel designed to ASME specifications.
- NEMA 4 enclosure.
- ASME and UL stamped aluminum relief valve: 250 psig (17.6 kg/cm<sup>2</sup>).
- Meets ANSI K61.1, CGA pamphlet G-2.1.
- Thermal efficiency exceeds 98%.
- FM & CSA approved.
- 100% turndown capability.
- "Slide-in" PC board with quick connect fittings.
- Easily accessible control housing allows simple maintenance.

- Direct monitoring high temperature RTD sensors for operation and <u>over temperature</u> protection.
- Float activated high liquid level safety.
- Flanged stainless steel inlet safety solenoid valve.
- Vinyl coated cross-linked polyethylene insulation jacket.
- Pressure balanced NH<sub>3</sub> supply/delivery operation.
- Compact footprint size of approximately 1ft<sup>2</sup> [.09m<sup>2</sup>].
- Worldwide voltages available in 50/60 Hz.
- Complete with all operating and safety controls.
- Ready to connect to plant facilities.
- Factory tested.

# **Options**

- Auto Restart.
- Economy Operation.
- Remote Control Panel.
- Spare Parts Kit.



1) LIQUID PIPING LOSSES MOST NOT EXCEED THE HYDROSTATIC HEAD WHEN THE PUMP IS SHUT OFF.

2) NO CHECK VALVES IN LIQUID LINE; LIQUID MUST BE ABLE TO FLOW BOTH DIRECTIONS.

#### BY OTHERS.



NOTE: No check valves in liquid line; liquid must must be able to flow in both directions.

**POWER**<sup>®</sup> is a registered U.S. trademark of **ALGAS-SDI**.







#### **Offered By:**

Power Equipment Company 2011 Williamsburg Road Richmond, Virginia 23231 T: 804-236-3800 F: 804-236-3882 www.peconet.com sales@peconet.com