

Applications using Ammonia gas



Ammonia Industrial Furnace

Heat treatment/ Nitriding



Power industry

NOx removal / Desulfurization /
Gas turbine / Mixed combustion



Fertilizer

Nitrogen fertilizer



Solution for your

AMMONIA GAS OPERATION

Facing any issues with gas supplies?

Do you have enough supply ?

Have you experienced any issues because of unstable pressure?
By using our vaporizer, you can expect stable gas supply pressure.



Is your cylinder or tank frozen?

Are you hassling to heat your cylinders or tank?
Our vaporizers will free you from worries you are facing.



Is your installation safe ?

Unsafe supply may lead to large damage not only to your facility but
also to your employees. Ammonia is a toxic gas. Safety is an important factor as
a corporate responsibility.



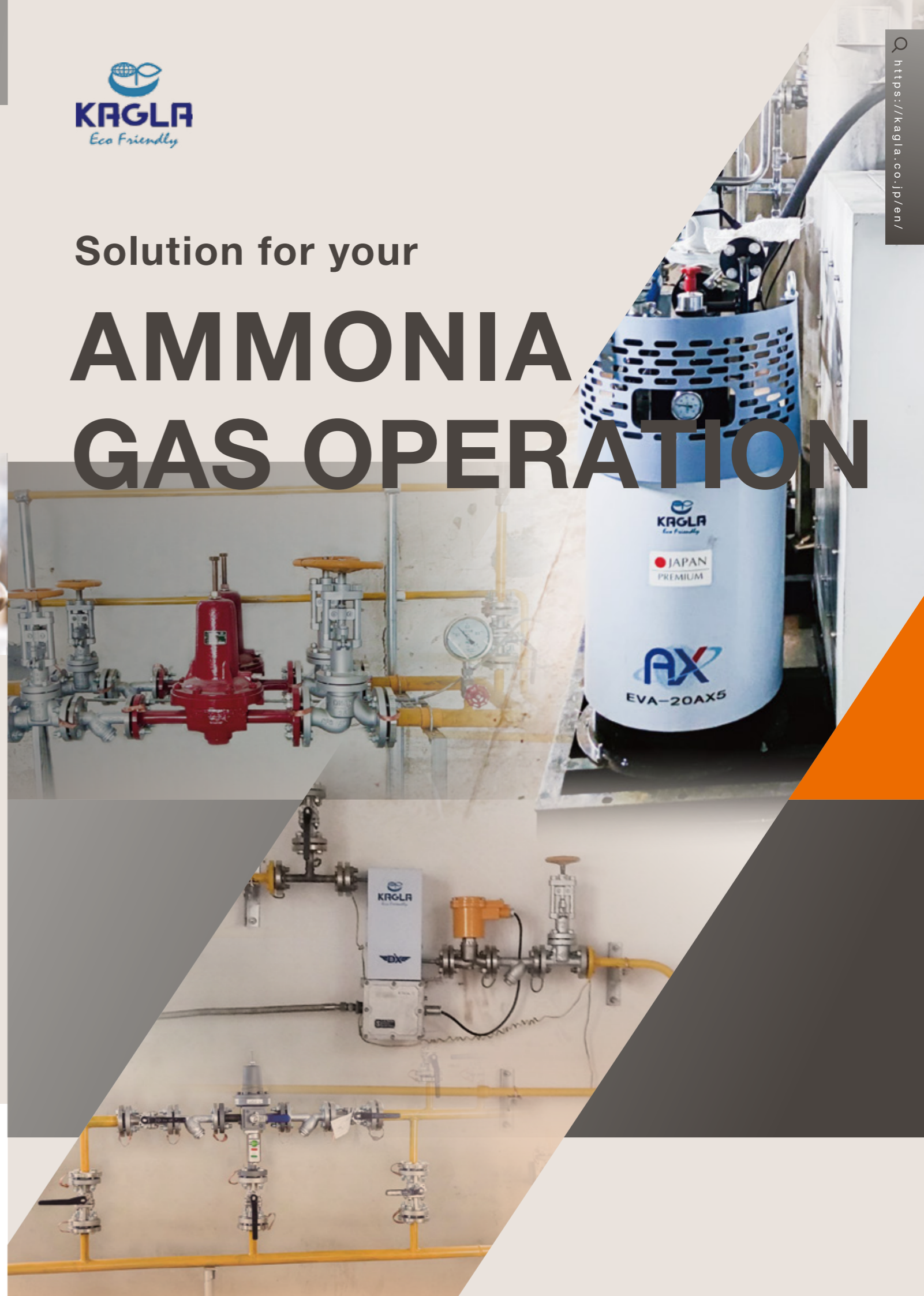
We Kagla are ready to provide you solutions for your stable and safe supply of Ammonia gas.
Our experience and sets of products can resolve issues you have.
Please feel free to ask with any small issues you are experiencing.
We have much more to offer besides the products on this catalog.

KAGLA VAPORTECH CORPORATION

1-2-1 Tachibana-cho, Amagasaki, Hyogo, 661-0025, Japan
Phone : +81 6 6429 2696 Fax: +81 6 6422 0134
URL : <https://kagla.co.jp/en/>

Printed in Japan

<https://kagla.co.jp/en/>



EVA-AX5 Vaporizer



Model	EVA-20AX5	EVA-35AX5	EVA-50AX5	EVA-70AX5	EVA-100AX5	EVA-170AX5
Vaporization Capacity	20 kg/h	35 kg/h	50 kg/h	70 kg/h	100 kg/h	170 kg/h
Gas	Ammonia Gas (NH3)					
Heat Source	Electricity					
Explosion Proof Heater	8kW	14kW	21kW	28kW (14kW x2)	42kW (21kW x2)	63kW (21kW x3)
Power Source	Heater Circuit : 3-Phase AC380V (-0%~ +10%) Control Circuit : 1-Phase AC220V (-10%~ +10%)					
Water Bath Operating Temperature Range	75~85 °C					
Overheat Prevention Setting Temperature	90 °C					
Safety Relief Valve Setting Pressure	350 psi (2.42MPa)					
Water Quantity	50 ℓ	50 ℓ	95 ℓ	120 ℓ	130 ℓ	275 ℓ
Connection Bore : Liquid Inlet	DN20-PN40		DN25-PN40		DN25-PN40	
Connection Bore : Gas Outlet	DN25-PN40		DN25-PN40		DN32-PN40	
Water Vessel Diameter	420mm	420mm	480mm	520mm	520mm	670mm
Height	857mm	857mm	1058mm	1098mm	1158mm	1387mm
Weight	110 kg	110 kg	140 kg	170 kg	190 kg	390 kg
Electric Control Panel Weight	10 kg					13 kg
Electric Control Panel Dimensions	300(W)x400W(H)x150(D)mm					450(W)x500W(H)x250(D)mm
Explosion-Proof Cert No.	GYB16.1589X (Ex d ia IIB T4 Gb)					
Standard Accessories	(1) Installation, Operations and Maintenance Manual (2) Anti-Corrosive Solution (3) Anchors (M12x150L) 4 pcs					

EVA-AX5 is KAGLA's flagship model NH3 vaporizer. 6 different capacity models from 20-170kg/h prepared as standard line-up while bigger ones are also available upon orders.
Hot water vaporizes NH3 liquid in the heat exchanger as intermediate heat source.
Operation status can be monitored on the external control panel.
FLOAT VALVE safety system (patent technology) blocks NH3 liquid from going out to the outlet without fail.
Corrosion resistant structure and material exclusively for Ammonia gas.
EVA-AX5 series vaporizers not only provide safety and durability but absolute reliability to your daily stable operation.

Liquid Changeover

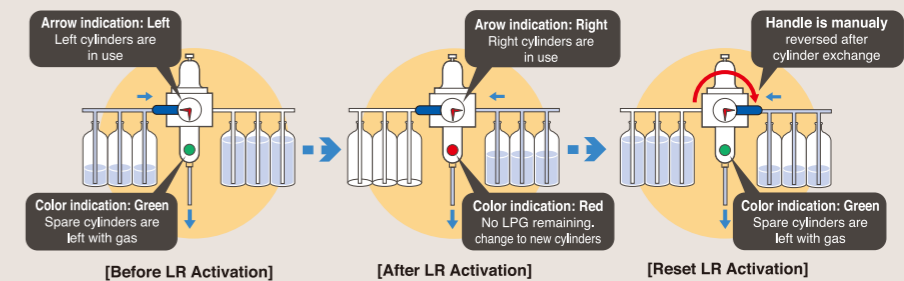
Model	LRA-SE-I	LRA-SE-II		
Capacity	Below 100kg/h			
Gas	Ammonia Gas (NH3)			
Changeover Pressure	0.05-0.18MPa	0.15-0.30MPa		
Changeover Pressure Operating Accuracy	±0.01MPa			
Necessary Liquid Inlet Pressure	Changeover Pressure +ΔP (Maximum: 1.56MPa)			
	Flow Amount	ΔP	Flow Amount	ΔP
	35kg/h	0.05MPa	35kg/h	0.06MPa
	50kg/h	0.07MPa	50kg/h	0.08MPa
	70kg/h	0.09MPa	70kg/h	0.11MPa
80kg/h	0.13MPa	80kg/h	0.15MPa	
100kg/h	0.16MPa	100kg/h	0.18MPa	
Liquid inlet size	JIS20K 20A			
Liquid outlet size	JIS20K 20A			
Weight	13kg			
Width	216mm			
Height	425mm			
Depth	195mm			
Attachment	Conduit joint			

LRA



LRA is an automatic liquid changeover for Ammonia.

Red "Arrow" indicates which line is in use, and changeover activation status can be checked by "Color" indicator. Since line in use and operating status can be distinguished at a glance by the indicators.
It is possible to replace cylinders correctly before short of gas.



EVA-10DX Vaporizer



Model	EVA-10DX
Vaporization Capacity	10kg/h
Gas	Ammonia Gas (NH3)
Heat Source	Electricity
Electric Heater	4.9kW
Power Source	Heater Circuit 1-Phase AC220V(-0%~ +10%)
Amperage Rating	22.3A
Control Temperature Range	70°C
Thermal Fuse Setting	130°C
Safety Relief Valve Setting Pressure	350psi (2.42Mpa)
Connection Bore: Liquid Inlet	DN15-PN40 I
Connection Bore: Gas Outlet	DN15-PN40 I
Weight	25kg
Width	598mm
Height	865mm
Depth	241.5mm
Explosion-Proof Cert No.	CE / GYB18.1066X (Ex dIIB T2 Gb)

A small and compact wall mounting vaporizer will save your installation space. Despite its size, explosion proof class is in its highest category assuring you safe, reliable and stable gas supply.

Regulator

Model	KR-35A	KR-70A	KR-100A
Capacity	35kg/h	70kg/h	100kg/h
Gas	Ammonia Gas (NH3)		
Design Temperature	90°C		
Design Pressure	1st stage: 2.40Mpa / 2nd stage: 0.30MPa		
Inlet Pressure Range	0.1 ~ 1.56MPa		
Outlet Pressure Range	0.035 ~ 0.3MPa		
Hydraulic Pressure Test	1st stage: 3.60MPa / 2nd stage: 0.80MPa		
Pneumatic Pressure Test	1st stage: 2.64MPa / 2nd stage: 0.33MPa		
Connection Bore: Liquid Inlet	DN25-PN40 (Flange)		
Connection Bore: Gas Outlet	DN25-PN40 (Flange)	DN40-PN40 (Flange)	
Face to Face Dimension	385mm		
Maximum Height	349mm	469mm	
Weight	15kg	28kg	

To support stable gas supply, Kagla is now ready to introduce a regulator designed for Ammonia gas. We have a line-up starting from 35kg/h up to 100kg/h. Essential device to stabilize Ammonia gas pressure.

KRA

