

## STANDARD MODEL SPECIFICATION

Model	EVM-200AX5	EVM-300AX5	EVM-500AX5	EVM-750AX5
Gas	LPG			
Vaporization Capacity (Kg/h)	200	300	500	750
Supply Volume (Nm <sup>3</sup> /h)	160	240	400	600
Mixed Gas Spec	Supply Pressure 3000 ~ 4000 (mmAq) (30 ~ 40 (kPa))			
	Calorie 58.0 ~ 63.0 (MJ/Nm <sup>3</sup> ) ※1 (13850 ~ 15000 (kcal/Nm <sup>3</sup> ))			
	Wobbe Index (WI) 48.6 ~ 52.2 (MJ/Nm <sup>3</sup> ) ※1 (11620 ~ 12470 (kcal/Nm <sup>3</sup> ))			
	Reference NG calorie 39.2 ~ 42.1 (MJ/Nm <sup>3</sup> ) ※2 (9400 ~ 10000 (kcal/Nm <sup>3</sup> ))			
Electric Heater (kw)	28 (14kw x 2)	42 (21kw x 2)	63 (21kw x 3)	96 (24kw x 4)
	Standard 3Phase 380V ※3			
Electric Control Panel	Size (mm) Width x Height x Depth 450 x 500 x 250			550 x 600 x 250
	Weight (kg) 15			
	Power Single Phase AC220V (±10%) 50/60Hz			
Connection Bore	LPG Liquid Inlet JIS 20K 20A		JIS20K 25A	
	Mixed Gas Outlet JIS 10K 100A		JIS 10K 150A	
External Dimensions	Width (mm) 1150			
	Height (mm) 1700		2200	
	Depth (mm) 1150		1300	
	Weight (kg) 400		1600	
Required Surge Tank Capacity (m <sup>3</sup> ) More than 5.0    More than 7.5    More than 12.5    More than 19				
Mixer Panel	Control Air Pressure (Mpa) 0.5 ~ 0.9			
	Control Air Required Air (Nm <sup>3</sup> /min) 50			
	Power Single Phase AC220V (±10%) 50/60Hz			
Accessories Electric Control Panel, Anti-Corrosive Solution, Anchors, and Installation, Operation and Maintenance Manual				

※1 Reference value in case of NG specific gravity 0.65

※2 Other Power Voltage available 200~460V

※3 Figures show on the table are approximate. Specifications are subject to change without notice.

## HIGH PRESSURE MODEL SPECIFICATION

Model	EVM-200AX5-HP	EVM-300AX5-HP	EVM-500AX5-HP	EVM-750AX5-HP
Gas	LPG			
Vaporization Capacity (Kg/h)	200	300	500	750
Supply Volume (Nm <sup>3</sup> /h)	160	240	400	600
Mixed Gas Spec	Supply Pressure 15000 ~ 16000 (mmAq) (150 ~ 160 (kPa))			
	Calorie 58.0 ~ 63.0 (MJ/Nm <sup>3</sup> ) ※1 (13850 ~ 15000 (kcal/Nm <sup>3</sup> ))			
	Wobbe Index (WI) 48.6 ~ 52.2 (MJ/Nm <sup>3</sup> ) ※1 (11620 ~ 12470 (kcal/Nm <sup>3</sup> ))			
	Reference NG calorie 39.2 ~ 42.1 (MJ/Nm <sup>3</sup> ) ※2 (9400 ~ 10000 (kcal/Nm <sup>3</sup> ))			
Electric Heater (kw)	28 (14kw x 2)	42 (21kw x 2)	63 (21kw x 3)	96 (24kw x 4)
	Standard 3Phase 380V ※3			
Electric Control Panel	Size (mm) Width x Height x Depth 450 x 500 x 250			550 x 600 x 250
	Weight (kg) 15			
	Power Single Phase AC220V (±10%) 50/60Hz			
Connection Bore	LPG Liquid Inlet JIS 20K 20A		JIS20K 25A	
	Mixed Gas Outlet JIS 10K 80A		JIS 10K 150A	
External Dimensions	Width (mm) 1400			
	Height (mm) 1700		2200	
	Depth (mm) 1150		1300	
	Weight (kg) 450		1850	
Required Surge Tank Capacity (m <sup>3</sup> ) More than 5.0    More than 7.5    More than 12.5    More than 19				
Mixer Panel	Control Air Pressure (Mpa) 0.5 ~ 0.9			
	Control Air Required Air (Nm <sup>3</sup> /min) 50			
	Power Single Phase AC220V (±10%) 50/60Hz			
For Mixed Air Large-size Air Compressor	Discharge Pressure (Mpa) 0.5 ~ 0.9			
	Discharge Air Volume (m <sup>3</sup> /min) More than 2.4		More than 9.0	
Accessories Electric Control Panel, Anti-Corrosive Solution, Anchors, and Installation, Operation and Maintenance Manual				

※1 Reference value in case of NG specific gravity 0.65

※2 Other Power Voltage available 200~460V

※3 Figures show on the table are approximate. Specifications are subject to change without notice.



# NATURAL GAS BACK UP MIXER

Capacity: 200kg/hr ~ 750kg/hr



## SYNTHETIC NATURAL GAS SYSTEM



Control Panel

SAFE

RELIABLE

COMPACT

### AUTOMATIC BACK UP FOR NATURAL GAS SUPPLY

In recent years, increased usage of natural gas has resulted in a shortage of natural gas.

Not only shortage of natural gas but also insufficient pressure of natural gas is becoming a common issue throughout the world.

KAGLA "Natural Gas Back Up Mixer" is ready to provide you the solution to your problem.

KAGLA VAPORTECH CORPORATION

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## ADVANTAGES OF KAGLA AX5 MIXER

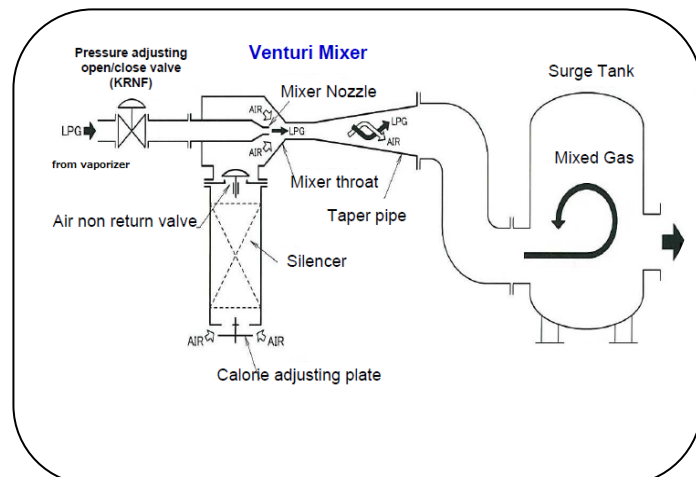
- VENTURI TYPE:** Venturi type system does not produce explosive range of mixed gas. Only when LPG is injected, air is swallowed by the pressure difference.
- TWO MODELS:** KAGLA provides both high pressure model mixer and standard model mixer. Based on your requirements and budget, we are able to propose the most suitable solution.
- CUSTOM MODELS:** Upon inquiry, KAGLA is able to provide above 750kg/hr model. 1,000kg/hr ~ 2,000kg/hr
- EXTERNAL CONTROL PANEL:** External control panel will assist your daily maintenance and trouble shooting by displaying number on the panel.
- VARIATION OF HEAT SOURCE:** Based on your current facilities, AX5 mixer can provide different types of heat source. (Electric, Steam, Hot water)

## SELECTION CHART

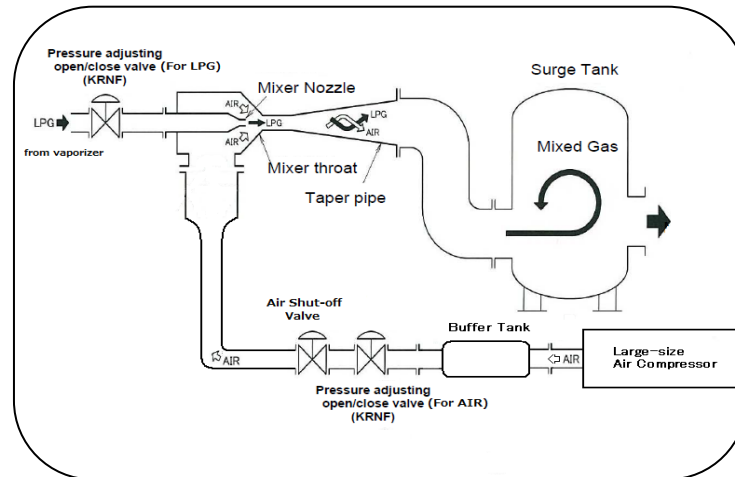
Selection	Mixed Gas Supply Pressure	Not included in our models, prepared by customer			
Mixed Gas Capacity (MMBTU/hr)	<b>Standard</b> 2.9 ~ 5.8 psi	Required Surge Tank (Design Pressure : 15psi)	Air Compressor Required Discharge Air Volume & Pressure		LPG Pump
8.8 ~ 9.6	EVM-200AX5	More than 5	0.05m3/min	73~131 psi	LPG Vaporizer
13.2 ~ 14.4	EVM-300AX5	More than 7.5	0.05m3/min	73~131 psi	Min. Required Inlet Pressure
22 ~ 24	EVM-500AX5	More than 12.5	0.05m3/min	73~131 psi	73 psi
30 ~ 35	EVM-750AX5	More than 19	0.05m3/min	73~131 psi	
Selection	Mixed Gas Supply Pressure	Not included in our models, prepared by customer			
Mixed Gas Capacity (MMBTU/hr)	<b>High Pressure :</b> 20 ~ 23 psi	Required Surge Tank (Design Pressure : 45psi)	Air Compressor Required Discharge Air Volume & Pressure		LPG Pump
8.8 ~ 9.6	EVM-200AX5-HP	More than 5	2.4m3/min	73~131 psi	LPG Vaporizer
13.2 ~ 14.4	EVM-300AX5-HP	More than 7.5	3.6m3/min	73~131 psi	Min. Required Inlet Pressure
22 ~ 24	EVM-500AX5-HP	More than 12.5	6.0m3/min	73~131 psi	73 psi
30 ~ 35	EVM-750AX5-HP	More than 19	9.0m3/min	73~131 psi	

## VENTURI TYPE FLOW MODEL

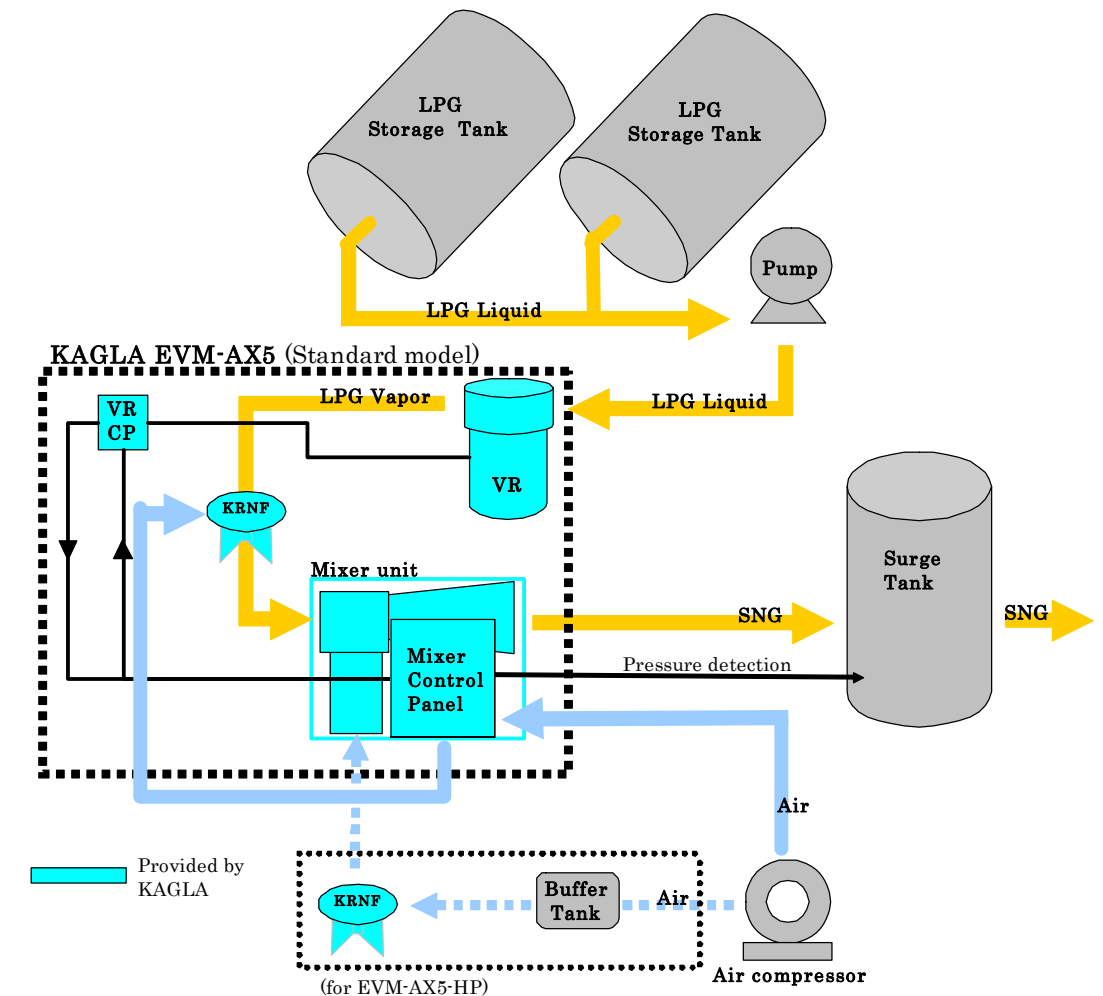
### <STANDARD MODEL>



### <HIGH PRESSURE MODEL>



## KAGLA MIXER SYSTEM FLOW DIAGRAM



## BASIC EQUIPMENT FOR MIXER PLANT

- LPG Storage Tank
- LPG Liquid Transfer Pump
- LPG Vaporizer (KAGLA)
- LPG Vaporizer Control Panel (KAGLA)
- Mixer Unit (KAGLA)
- Air Compressor
- Surge Tank
- Gas calorimeter

For details, please refer to the back.

