

VARIETIES OF RELATED PRODUCTS

LPG Mixer SNG (Synthetic Natural Gas) system

By mixing air and LPG, LPG mixer can create similar calorific value to natural gas when natural gas supply is unstable or your factory cannot afford to stop its operation, LPG Mixer will be a reliable back-up to your natural gas facility.

Capacity: 100kg/hr-500kg/hr

Larger size available upon inquiries.



Heat Source :  Electric  Hot water  Steam

NH3 (Ammonia) Vaporizer

NH3 vaporizer is available on our regular line-up now. For NOx removal measurement, NH3 vaporizer will be a reliable solution to power generating facilities, chemical factories and steel factories.

Capacity: 20kg/hr-170kg/hr

Larger size available upon inquiries.



Large Capacity Vaporizer 750/1000AX5

Extra Large capacity Electric Waterbath type AX5 vaporizers available upon request.

Instead of Float Valve system, Japan-made THERMO VALVE safety system is equipped to prevent liquid carryover with bigger size body for 750 & 1000kg/h vaporization.

Capacity: 750kg/h / 1000kg/h



Single-Phase 220V / Compact Size Vaporizer

Compact size / Light weight (23.5kg only)

"ADX" series Dry-Electric vaporizer is wall-mounting design to fit anywhere.

Best solution for the gas users who need stable gas supply but installation space is limited.

Capacity: 45kg/h / 55kg/h



Liquid auto changer "LR series"

This is a device which switches over the usage of the cylinders automatically at set pressure when one side becomes empty. Output signal device is also available to alert you when switch over gets activated (optional).



LNG vaporizer "NATURIZER"

Based on the experience of developing LPG vaporizers, KAGLA delivers highly reliable LNG vaporizer standard line-up model at a reasonable price.



Strainer valve "PUREFLOW"

As the strainer and the ball valve are combined in one unit, it will save you space when structuring a piping layout. Strainer can be cleaned easily by shutting the valve.



Flow limiter "PARAFLOW"

When two or more vaporizers are running at the same time, either side of the vaporizers may diverge and cause overload from pressure loss etc. By limiting the flow, Paraflow will prevent you from this trouble.

Capacity: 50kg/hr-500kg/hr



Others : KAGLA's Best Selling domestic products

All-in-one unit "BAiO series"

BAiO(Bulk All in One) is a bulk tank with built-in vaporizer and piping's pre-installed in its body.

Less construction cost and easy maintenance.



Auto Gas Station "AUTO COMPO"

Compact and reasonable auto gas station. Basically installed for private usage for transport companies.

KAGLA's AUTO COMPO contributed to spread the use of LPG cars in Japan.



KAGLA VAPORTECH CORPORATION

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Your Kagla Distributor:



Reliable, Safe and Durable Vaporizer

AX5 Model

Capacity: 50kg/hr~500kg/hr



Ex d ia II B T4 Gb / Class-1, Division-1

Leading Manufacturer of Vaporizer in JAPAN

Kagla Vaportech Corp has been the leading manufacturer of LPG vaporizers in Japan. With the knowledge based on long history of product development, we assure to provide you the most reliable vaporizers to your facilities.



view on website



FEATURES OF KAGLA "AX5" VAPORIZER

1. Advanced Safety Mechanism

• Float valve with built-in magnet (KAGLA's Patented Technology) prevents LPG liquid carryover.

** See below for its operation principle.

• Overheat prevention

Water level switch monitors water level in the bath.

Safety thermostat functions against abnormal high water temperature.

2. User Friendly Interface

Easy operation is realized by equipping electric control panel with digital indicator. Combination of the number display and indicator lamps on the panel will tell operation status and cause of troubles of AX5 with a single glance.

** See next page for more details.

3. Space Saving Compact Body

AX5 has the compact body size among all vaporizers of the same categories by its sophisticated design backed by long term experience of KAGLA.

It enables AX5 to be installed in the limited spaces.

4. Easy Maintenance Structure

Top cover of AX5 is removable from its body for easy maintenance and overhaul.

KAGLA wishes our customers to use our products as long as possible with good maintenance.

5. Varieties of Line-ups

Wishing to provide the best equipment for facilities of any scale, KAGLA prepares 6 different vaporizing capacity models from 50kg/hr to 500kg/hr.

You can choose the best model to match your usage.

6. Drainage Measure

To maintain stable supply of vaporized LPG, KAGLA has designed the structures of heat exchanger and gas chamber which will minimize drainage to remain.

Also the fat drain pipe contributes to discharge the drainage effectively.

DISPLAY ON ELECTRIC CONTROL PANEL

AX5 Control Panel

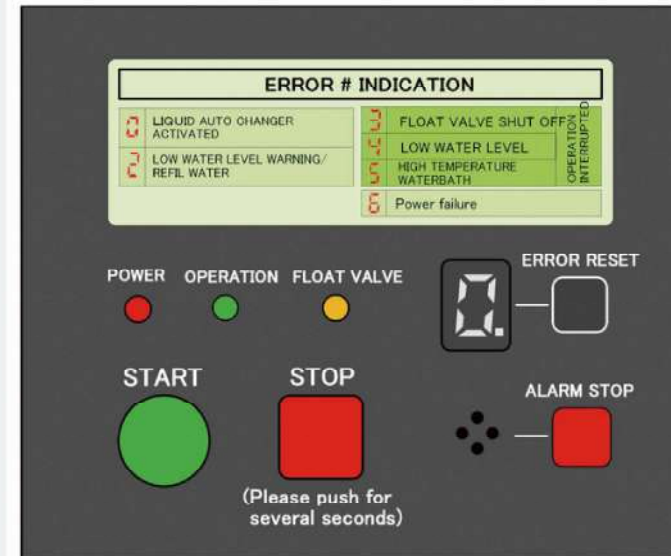
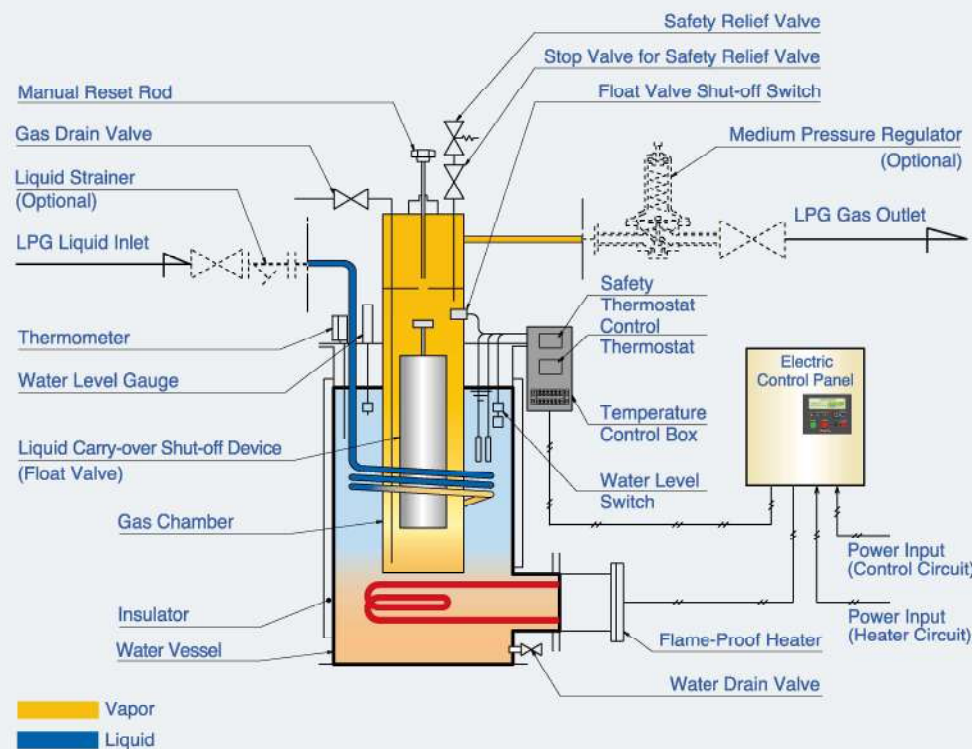


Table of Operation Status

Display	Operation of Vaporizer	Status
2	ON	Low Water Level Warning
3 (Lighting)	SHUT DOWN	Float Valve Shutoff (overload / heater defective)
3 (Flashing)		Float Valve Shutoff (thermostat defective)
4		Low Water Level Shutdown
5 (Lighting)		High Water Temperature Shutdown (minimum controller defective / magnet switch defective)
5 (Flashing)		High Water Temperature Shutdown (thermostat defective)
6		Float Valve Shutoff by blackout (not a defect)
. (Dot)	ON	Electric Heater ON
0		Liquid Auto Changer activated (optional)

STRUCTURE AND FLOW SHEET OF AX5



Operation Principle of FLOAT VALVE

FLOAT VALVE is a safety function to prevent LPG liquid carryover to the consumption side.

- 1) LPG liquid flows into gas chamber because;
 - water temperature goes down by a certain error.
 - over capacity usage causes overload of vaporizer.
- 2) Liquid in the chamber lifts the float inside.
- 3) At certain upper level, the float shuts off the outlet port of chamber by power of magnet and prevents LPG liquid to flow into consumption side.
- 4) Magnet on top of float holds the outlet port shut-off until the vaporization problem is solved and the float is reset.

◆ This function is controlled by the float and magnet only, but not by electricity or pilot air. Simple and reliable mechanism secures safe operation.

AX5 SPECIFICATION

MODEL		EV-50AX5	EV-100AX5	EV-150AX5	EV-200AX5	EV-300AX5	EV-500AX5	
Vaporization Capacity	kg/hr	50	100	150	200	300	500	
	U.S Gal/hr *	25	50	75	100	150	250	
	lb/hr	110	220	330	440	660	1100	
Water Bath Capacity	liters	50	50	95	120	130	275	
Heat Exchanger Design Pressure	kg/cm ²	18						
	psig	257						
	MPa	1.77						
Liquid inlet bore		Rc3/4					Rc1	
Gas outlet bore		Rc1					Rc1•1/4	
Hydrostatic Test Pressure	kg/cm ²	27						
	psig	386						
	MPa	2.66						
Relief Valve Setting Pressure	kg/cm ²	17.5						
	psig	250						
	MPa	1.72						
Flame-Proof Electric Heater	kW	8	14	21	28 (14kWx2)	42 (21kWx2)	63 (21kWx3)	
		Electric Requirement Heater Control Circuit 380/415/440V, 3-Phase (other voltages also available) 220V, Single-Phase						
Dimension(mm)	Width	420	420	480	520	520	670	
	Depth	691	649	689	739	739	854	
	Height	857	857	1058	1098	1158	1387	
Vaporizer Control Panel Dimensions(mm)	Width	300					450	
	Depth	150					250	
	Height	400					500	
Weight	kg	110	110	140	170	190	390	
	lb	245	245	310	375	420	860	
Design Standard Approval		Explosion-Proof Construction/NEPSI (National Supervision and Inspection Center for Explosion Protection and Safety Instrumentation)						

*When gas composition is Propane50:Butane50 / outside temperature is 25°C

Heat Source : Hot water circulation / Steam heating type also available upon inquiries