Biogas Burner

BKE
Combustion Controls Co., LTD.
"Burning for a Better Environment..."
http://www.bke.co.th
contact@bke.co.th

BKE Biogas Burners are designed to fit our clients' applications where the following key parameters are taken into consideration:

- H_2S content
- Moisture content
- Methane content
- Flame speed
- Flame shape (long or flat)
- Direct or indirect firing
- Chamber temperature
- Chamber pressure
- Biogas pressure
- Possible corrosion within the flue gas train
- High efficiency
- Less pollution
- Alternative fuels for co-firing or dual firing
- High safety standards

Note: Biogas burners have many parameters as noted above; therefore specific designs are needed in order to achieve optimum performance reliability.

Model	Biogas Consumption (Nm^3/hr)	Max Capacity* (kw)	Working Pressure (mb)
BB250	250	1,389	50-200
BB500	500	2,778	50-200
BB750	750	4,167	50-200
BB1000	1,000	5,556	50-200
BB1250	1,250	6,947	50-200
BB1500	1,500	8,333	50-200
BB2000	2,000	11,111	50-200

**Subject to change based upon client's specific application.*

Patents:

World Intellectual Property Organization publication number: WO 00/59087

Department Of Intellectual Property of Thailand publication number: 18984

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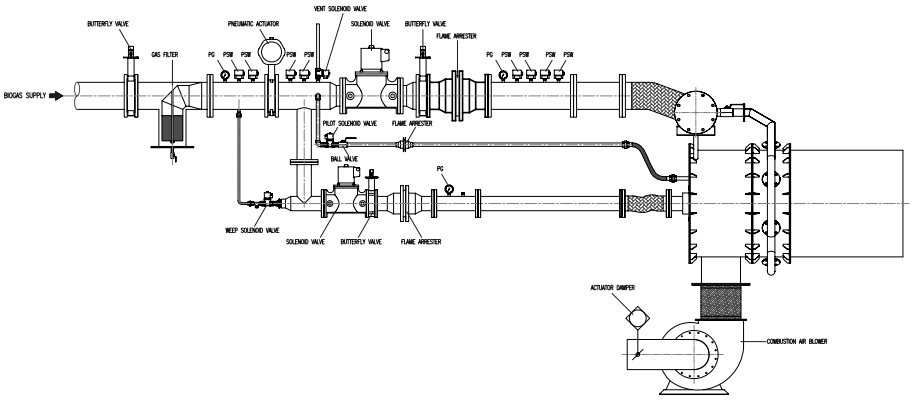
Biogas Burner Diagram:



Technical Specifications	
Type:	Automatic forced draught burner
Fuel:	Biogas (Minimum 55% Methane)
Co-Fuel:	Oil or gaseous fuel (Option)
Burner Control:	European standard EN 298 - Purge time = 60 sec - Safety time = 5 sec max
Flame Arrester:	End-of-line stainless steel flame arrestor before biogas nozzle(s) European Standard Design & Test (EN 12874)
Flame Detector:	UV sensor flame detector
Ignition System:	14,000 Volt European standard ignition transformer w/optional LPG igniter
Gas Train:	Stainless steel gas train with automatic valve proving system (VPS)
Safety Shut-off Device:	Solenoid valves or pneumatic/electric automatic valves
Biogas Supply Pressure:	50-200 mbar (adaptable to available pressure)
Temp Level:	2 stages: 1st for low flame and 2nd for high flame
Air Damper:	Pneumatic air damper
Turn-Down Ratio:	1/5 as standard, option can be 1/20

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