

BIOGAS FLARE SYSTEMS

Biological treatment for gases is what we can turn waste to energy for the current and coming global environment and energy revolution, but the excess gases need to have less environmental impact. Therefore biogas flare systems shall be a way to put in places. BKE flares are designed for weatherproof, high safety standard, high methane destruction efficiency, automatic control and H₂S proof systems.

2 Types of flares for the CDM standard compliant :-

- Open Biogas Flare Systems
- Enclosed Biogas Flare Systems

• Open Biogas Flare Systems

Type : Automatic Open Biogas Flare Systems

Fuel : Biogas (45% UP Methane)

Shut off Device : Safety Shut – off Solenoid Valve ,
European Stand EN 161

Flame Arrester Type : End of line flame Arrester ,
European Standard Design
(EN 12784)

Materials :

- Stainless Steel for Biogas Piping
- Stainless Steel for Fire Tube
- Carbon Steel for Structure with sand blasting and Penguard Primer and Penguard Enamel Paint

Control Panel : Weather Proof / Stainless Steel

Flame Detector : Ionization Flame Detector

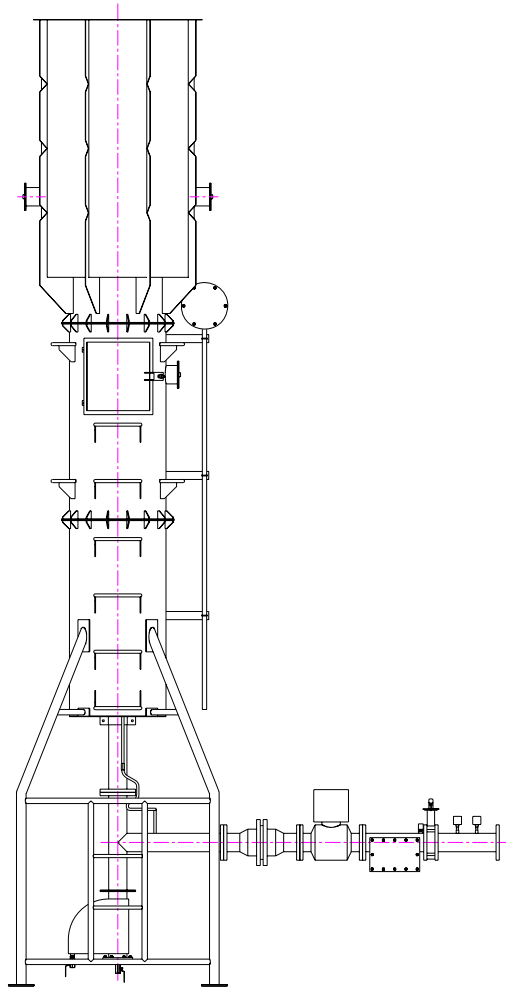
Ignition System : 14,000 Volt European Standard
Ignition Transformer

Controller : SIEMENS

Control Feature : Start automatically when Biogas reach high pressure setting (No.1 pressure switch) and stop automatically when biogas Pressure drops to low pressure setting (No.2 pressure switch)



BIOGAS FLARE SYSTEMS



Model	Capacity (m ³ /hr)	Height (m)	Working Pressure (mbar)	Voltage
500BF	500	6.00	50/250	220/380
750BF	750	6.00	50/250	220/380
1000BF	1,000	6.00	50/250	220/380
1250BF	1,250	6.00	50/250	220/380
1500BF	1,500	6.00	50/250	220/380

• Enclosed Biogas Flare Systems

Type : Automatic Enclosed Biogas Flare Systems

Fuel : Biogas (45% UP Methane)

Shut off Device : Safety Shut – off Solenoid Valve ,
European Stand Corrosion EN161

Flame Arrester Type : End of line flame Arrester
,European Standard Design
(EN 12784)

Materials : - Stainless Steel for Biogas Piping
- Stainless Steel for Fire Tube with
refractory Lining
- Carbon Steel for Structure with sand
blasting and marine grade coating

Control Panel : Weather Proof / Stainless Steel

Controller : SIEMENS

Flame Detector : Ionization Flame Detector

Ignition System : 14,000 Volt European Standard
Ignition Transformer

Control Feature : Start automatically when Biogas
reach high pressure setting (No.1
pressure switch) and stop
automatically when biogas
pressure drops to low pressure
setting (No.2 pressure switch)

Water Drain Valve : Automatic float drain valve



Model	Capacity (m ³ /hr)	Height (m)	Working Pressure (mbar)	Voltage
500EBF	500	6.00	50/250	220/380
750EBF	750	7.00	50/250	220/380
1000EBF	1,000	7.20	50/250	220/380
1250EBF	1,250	7.80	50/250	220/380
1500EBF	1,500	9.00	50/250	220/380

