

Enclosed Biogas Flares



"Burning for a Better Environment..."

<http://www.bke.co.th>
contact@bke.co.th

- Weatherproof, High Safety Standard & High Methane Destruction Efficiency
- Automatic Control And H₂S Proof Systems

Model	Capacity (Nm ³ /hr)	Height (m)*	Working Pressure (mbar)	Voltage
BFE250	250	5.80	30-250	220/380V AC
BFE500	500	6.00	50-250	220/380V AC
BFE750	750	7.30	50-250	220/380V AC
BFE1000	1,000	7.30	50-250	220/380V AC
BFE1250	1,200	7.30	50-250	220/380V AC
BFE1500	1,500	9.60	50-250	220/380V AC
BFE2000	2,000	14.00	50-250	220/380V AC
BFE3000	3,700	19.00	50-250	220/380V AC
BFE4000	4,000	23.00	50-250	220/380V AC

*Subject to change based upon the gas content at client's site



Specifications:

Type:	Automatic Enclosed Biogas Flare
Flare Fuel:	Biogas - 50-60% Methane (+60% optional)
Shut-Off Device:	Stainless steel solenoid valve or actuator valve
Flame-Arrester Type:	End of line flame arrester
Retention Time:	0.5-0.7 Seconds
Methane Destruction:	90% min
Flame Detector:	Flame ionization detector or UV flame detector
Ignition System:	14,000 Volt European standard ignition transformer
Backfire Prevention:	Stainless steel end-of-line flame arrester European Standard Design & Test (EN 12874)
Water Drainage:	Automatic float drain valve
Thermocouple:	Type N
Fluegas Temperature:	500°C-750°C (UFCCC Standard)
Flare Materials:	<ul style="list-style-type: none"> • Hot-dipped, galvanized carbon steel or carbon steel structure w/sand-blasted & marine-grade coating • Stainless steel enclosure w/fiber insulation supported by expansion steel • Stainless steel biogas piping • Stainless steel fire tube w/refractory lining
Optional Items:	<ul style="list-style-type: none"> • Data logger • Lightning arrester • Biogas blower • Biogas water separator • Biogas filter • Inline flame arrester(s) • Biogas regulator • Flow meter • UPS for actuator

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Control Panel

- Weatherproof stainless steel control panel IP65
- PLC (SEIMENS or equivalent) or MLC (Omron or equivalent)
- Full alarm and automatic safety functions
- Sophisticated design but easily accessible
- Adaptable for remote control functions



Scope of Work:

BKE Shall Provide:

1. Biogas Flare Components (consisting of:)
 - Control panel at flare
 - Pilot burner
 - Flame arrester
 - Auto drain valve
 - Biogas solenoid valve or actuator valve
 - Pressure switch
 - Pilot solenoid valve
 - Pressure guage
 - Stainless steel piping & fittings
2. Fabrication, installation, & construction supervision (if needed)
3. System commissioning & training
4. Maintenance & operation manual
5. 1-year warranty (extended service contracts available)

Client Shall Provide:

1. Concrete foundation
2. Biogas supply to flare at 50-250 mbar (the client shall specify if out of the range)
3. Electrical wiring from BKE components to control panel as per BKE circuit diagram
4. Temperature recorder(s) and other instrument(s) which are not specified in the supplier scope of work
5. LPG cylinder for alternative ignition, in the event of low-quality biogas



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