

Open Biogas Flares



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

<http://www.bke.co.th>
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Model	Capacity (Nm ³ /hr)	Height* (m)	Working Pressure (mbar)	Voltage
BFO250	250	6.00	20-250	220 VAC
BFO500	500	6.00	50-250	220 VAC
BFO750	750	6.00	50-250	220 VAC
BFO1000	1,000	6.00	50-250	220 VAC
BFO1250	1,250	6.00	50-250	220 VAC
BFO1500	1,500	6.00	50-250	220 VAC
BFO2000	2,000	6.00	50-250	220 VAC
BFO2500	2,500	6.40	50-250	220 VAC



*Subject to change based upon client's specific needs



Specifications:

Type:	Automatic Open 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
Flame Detector:	Flame ionization 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
Flare Materials:	<ul style="list-style-type: none"> • Carbon steel structure w/sand blasted & marine-grade coating (Hot-dipped, galvanized carbon steel or stainless steel is an option) • 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

Control Panel

- Weatherproof stainless steel control panel IP65
- PLC (SEIMENS 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 gauge
 - 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

