

# FLARE SYSTEM

Designed to safely and efficiently combust streams of combustible gases



CESB – BKE flaring system are designed with priority to meet safety requirements and CDM specifications. Thermal heat, flue gas dispersion, noise level and visible smoke are important criteria to ensure plant operators and equipment are not exposing to hazardous zone.

With 20 years' experience in combustion industries, CESB-BKE supply and install over 100 units of flaring system worldwide. We offered open and enclose flaring system range from 100m<sup>3</sup>/hr to 4,000m<sup>3</sup>/hr.

## Technical Specifications

Shut off Device	Motorised Shut-Off Valve / Magnetic Solenoid Valve
Flare Arrester Type	End of line flame arrester, EU Standard Design (EN12784)
Control Panel	Weather Proof with Stainless Steel Enclosure
Controller	SIEMENS (PLC)
Flame Detector	Ionization Flame Detector / UV Phototubes Sensor
Ignition System	14,000 Volt European Standard Ignition Transformer
Control Feature	Auto Start / Stop when pressure reaching high set-point or low-point Manual Start / Stop by operator Remote Control Start / Stop - from main control room.
Force Draught	Axial Fan X 2 units





## Enclosed Flare System Specifications

Materials:

- Stainless steel biogas train
- Stainless steel fire tube with high temp ceramic lining
- Stainless steel / carbon steel enclosure
- Enclosure with high temp rock wool insulation
- Carbon steel structure with sand bland and marine grade painting

\*\* retention time is 0.5 sec

Model	Capacity (m <sup>3</sup> /hr)	Height (m)	Working Pressure (mbar)	Voltage
BFE 500	500	6.00	30 - 200	Three phase (30 Amp)
BFE 1000	1,000	7.20		
BFE 1250	1,200 - 1,250	7.80		
BFE 1500	1,500	9.00		
BFE 2000	2,000	9.00		
BFE 2500	2,500	17.00		
BFE 4000	4,000	25.00		

## Open Flare System Specifications

Materials:

- Stainless steel biogas train
- Stainless steel fire tube
- Galvanise / carbon steel structure with sand bland and marine grade painting

Model	Capacity (m <sup>3</sup> /hr)	Height (m)	Working Pressure (mbar)	Voltage
BFO 500	500	6.00	30 - 200	Single Phase (10 Amp)
BFO 750	750			
BFO 1000	1,000			
BFO 1250	1,250			
BFO 1500	1,500			
BFO 2000	2,000			

